

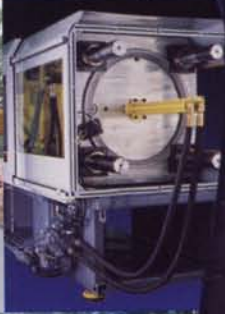


# Hose, Fittings, Accessories, and Equipment

Catalog 4400 US • October 2003
















www.parkerhose.com



# Hose, Fittings, Accessories and Equipment

## How to Use This Catalog

- The Table of Contents is on “page vii.”
- If you know the Parker Hose Products Division part number, see the Part Number Index on “pages G-37 through G-42” for specific part number to page number listing.
- If you know the type of part, see the Table of Contents on “page vii” OR reference the visual index on “the 1st page” of each section of the catalog.
- The Parker Hose Fitting End Configuration list starts on “page G-25.” The list identifies the catalogued fittings by end configuration description, HPD fitting code and fitting series.
- The Parker part number system for Hose, Fittings and Hose Assemblies is explained on “pages ix — xii” And, the Parker part number system for Hose and Fittings is explained on “pages B-3 and B-4.”
- The Parker Hose and Fitting information tables have international symbols as columnheads. The symbols and their meaning are noted below.

SYMBOL	DEFINITION	SYMBOL	DEFINITION
#	Part Number		Vacuum Rating
	Hose Inner Diameter		Parkrimp Fitting
	Hose Outer Diameter		Field Attachable Fitting
	Working Pressure		Flange End
	Burst Pressure		Thread Size
	Minimum Bend Radius		Hex Size
	Weight		Diameter



IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG,

PLEASE CONTACT:  
**PARKER HOSE PRODUCTS DIVISION**  
 PHONE: 440 / 943-5700  
 FAX: 440 / 943-3129  
[www.parkerhose.com](http://www.parkerhose.com)

Extra care is taken in the preparation of this literature but Parker is not responsible for any inadvertent typographical errors or omissions. Information subject to change without notice. The information in this catalog is only accurate as of the date of publication. For a more current information base, please consult the Parker Hose Products Division website at “[www.parkerhose.com](http://www.parkerhose.com).”

### Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions in the "Offer of Sale."



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Hose  
A

Fittings  
B

Parkrimp  
Crimping  
Equipment  
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### How to Order Hose

When ordering hose, specify complete information as illustrated below.

**Examples: 50 Ft. 201-8 (bulk hose) and  
1 piece of 201-8-120 inches (exact cut lengths)**

#### Hose Description

Quantity
50 Feet

Specify in feet, total length of hose required when ordering bulk hose.  
-OR-  
Specify length in inches with number of pieces if cut lengths are required.

Hose Type
201

Size of Hose Connection
-8

-3=3/16"	-12=5/8"
-4=1/4"	-16=7/8"
-5=5/16"	-20=1-1/8"
-6=5/16"	-24=1-3/8"
-8=13/32"	-32=1-13/16"
-10=1/2"	-40=2-3/8"
	-48=3"

Size of SAE 100R5 Type hose is nominal.

Cut Length in Inches
Always specify in inches.

Use only if exact cut lengths are required.

### How to Order Field Attachable Fittings

Fittings are ordered by part number as listed in this catalog.

**Example: 20630-12-12C**

#### Fittings Part Number

Type	Configuration	Series
2	06	30

2 = Field Attachable Fitting  
3 = Push-Lok Fitting

Fitting end configuration code listing is in Section G, pages G-24 thru G-31.

A "06" end is a Female JIC 37°-Swivel-Straight.

Fitting Connection Size
-12

20 for 20 Series fitting  
21 for 21 Series fitting  
20 for 22 Series fitting  
23 for 23 Series fitting  
30 for 30 Series fitting  
42 for 42 Series fitting  
82 for 82 Series fitting

Size of Hose Connection
-12

-3=3/16"	-12=3/4"
-4=1/4"	-16=1"
-5=5/16"	-20=1-1/4"
-6=3/8"	-24=1-1/2"
-8=1/2"	-32=2"
-10=5/8"	-40=2-1/2"
	-48=3"

Size of SAE 100R5 Type hose is nominal.

Fitting Material
C

No suffix = Steel  
B = Brass  
C = 316 Stainless Steel  
BA = Brass Nipple w/ Steel Nut & Socket  
BS = Brass Nipple w/ Brass Nut & Steel Socket

Defined by type of end connection, i.e. thread, flange, tube, banjo, etc. See part number table.

## How to Order Field Attachable Fittings.

### How to Order Components of Field Attachable Fittings

Sockets and nipples can be ordered separately and will be shipped separately when ordered as follows:

**Example: 20630-12-12C**

**Socket = 20030-12C**

**Nipple = 0630-12-12C**

#### Socket Part Number is 20030-12C

Type	Configuration	Series
2	00	30

"2" designates Field Attachable type fitting.

"00" designates socket only

- 20 for 20 Series fitting
- 21 for 21 Series fitting
- 22 for 22 Series fitting
- 23 for 23 Series fitting
- 30 for 30 Series fitting
- 34 for 34 Series fitting
- 42 for 42 Series fitting

Size of Hose Connection
-12

Fitting Material
C

- |          |            |
|----------|------------|
| -3=3/16" | -12=3/4"   |
| -4=1/4"  | -16=1"     |
| -5=5/16" | -20=1-1/4" |
| -6=3/8"  | -24=1-1/2" |
| -8=1/2"  | -32=2"     |
| -10=5/8" | -40=2-1/2" |
|          | -48=3"     |

- |   |
|---|
| No suffix = Steel                             |
| B = Brass                                     |
| C = 316 Stainless Steel                       |
| BA = Brass Nipple w/ Steel Nut & Socket       |
| BS = Brass Nipple w/ Brass Nut & Steel Socket |

Size of SAE 100R5 Type hose is nominal.

#### Nipple Part Number is 0630-12-12C

Configuration	Series	Fitting Connection Size
06	30	-12

Fitting end configuration code listing is in Section G, pages G-24 thru G-31.

- 20 for 20 Series fitting
- 21 for 21 Series fitting
- 20 for 22 Series fitting
- 23 for 23 Series fitting
- 30 for 30 Series fitting
- 34 for 34 Series fitting
- 42 for 42 Series fitting
- 88 for 88 Series fitting
- TB for TB Series fitting

Defined by type of end connection, i.e. thread, flange, tube, banjo, etc. See part number table.

Size of Hose Connection
-12

Fitting Material
C

- |          |            |
|----------|------------|
| -3=3/16" | -12=3/4"   |
| -4=1/4"  | -16=1"     |
| -5=5/16" | -20=1-1/4" |
| -6=3/8"  | -24=1-1/2" |
| -8=1/2"  | -32=2"     |
| -10=5/8" | -40=2-1/2" |
|          | -48=3"     |

- |   |
|---|
| No suffix = Steel                             |
| B = Brass                                     |
| C = 316 Stainless Steel                       |
| BA = Brass Nipple w/ Steel Nut & Socket       |
| BS = Brass Nipple w/ Brass Nut & Steel Socket |

Size of SAE 100R5 Type hose is nominal.

I  
Hose  
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Parkrimp Crimping Equipment  
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How to Order Parker Hose Assemblies with Parkrimp (crimp) Fittings

The following example illustrates how to order a hose assembly using 1/2" I.D. 301 hose, with 1/2" female SAE (JIC) 37° swivel straight fitting on one end and a 1/2" female SAE (JIC) 37° - swivel - 90° elbow fitting on the other end. Overall length is 24".

Example: F301\*\*0639080808-24"

Hose Assembly Part Number

Prefix	Hose Type	End Configuration		Fittings Connection Size		Hose Fittings		Overall Length	Displacement Angle
		1st End	2nd End	1st End	2nd End	Size	Material		
F	301**	06	39	08	08	08		-24	

F = Parkrimp (crimp) fittings, i.e. 43, 70, 71, 73, 78 or 79 Series.

Above information is defined in the corresponding shaded area of the How to Order Hose Only and/or How to Order Fitting Only section(s).

In this example, 301 hose is being used. 301 hose requires the use of 43 Series Parkrimp fittings - this explains why "F" is the hose assembly prefix.

P = Parkrimp (crimp) fittings, e.g., 26 Series.

When adapters, firesleeves or other combination of accessory parts are required for the hose assembly, they must be specified in the part number.

Examples:

- F301\*\*0639080808-24" with full length Spring Guard. The part number is F301\*\*0639080808-24" with SG-097 - 18.75". (The SG length equals the hose assembly Over All Length (OAL) less fittings overall length — the "A" dimension in the fitting table).

Y = Permanent (crimp) fittings, e.g., HY Series.

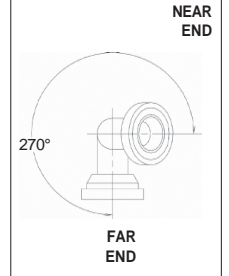
- The \*\* allows hose to be entered that is five characters in length. For example, if you require 451TC hose instead of 301, the assembly would be F451TC0639080808-24.

K = Permanent (crimp) fittings, e.g., 81 Series.

- If a pre-made hose assembly is required with a non-HPD accessory part, please contact Parker Hannifin, FCG, Kit Division, 1290 Waterville-Montclova Road, Waterville, OH, 43566-1018, PH: (419) 878-7000, FAX: (419) 878-7001. (See — [www.parkerhose.com/value added services/](http://www.parkerhose.com/value%20added%20services/) — for more Kit Division information.)

Expressed in INCHES. When expressed in MILLIMETERS, note length followed by "mm" (eg. 610 mm). If elbow fittings are used, overall length is measured from centerline of fitting seat.

Specified only if two elbow fittings are used. Starting with either end as the far end, measured the angle clockwise to describe the displacement of the near end.



The Hose Assembly Part Number is F301\*\*0639080808-24".

- The Hose Part Number is 301-8.
- The Fitting Part Number - 1st end configuration - is 10643-8-8.
- The Fitting Part Number - 2nd end configuration - is 13943-8-8.

Note: The Over All Length (OAL) of the Seal-Lok® hose assembly is measured to the sealing surface of straight fittings or to the centerline of elbow fittings.

I	
A	Hose
B	Fittings
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
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**How to Order Field Attachable Fitting Hose Assemblies.**

**How to Order Parker Hose Assemblies with Field Attachable Fittings**

The following example illustrates how to order a hose assembly using 13/32" I.D. 201 hose, with 3/8" male pipe fitting on one end and a 3/8" female SAE (JIC) 37° swivel-straight fitting on the other end. Fittings are non-mandrel style. Overall length is 24".

**Example: R201\*\*0106060608-24"**

**Hose Assembly Part Number**

Prefix	Hose Type	End Configuration		Fittings Connection Size		Hose Size	Fittings Material	Overall Length	Displacement Angle
		1st End	2nd End	1st End	2nd End				
R	R201**	01	06	06	06	08		-24	

R = Field Attachable Fittings, i.e., 20, 21, 30, 42, 82 or TB Series.  
 M = Mandrel style 22 and 23 Series  
 B = 88HC-H clamp on 88 Series  
 C = 88HC worm gear clamp on 88 Series

Select data from above by referencing its corresponding shaded area in the How to Order Hose and/or How to Order Fitting section.

In this example, 201 hose is being used. 201 hose can use 20 Series Field Attachable Fittings - this explains why "R" is the hose assembly prefix.

When adapters, firesleeves or other combination of accessory parts are required for the hose assembly, they must be specified in the part number.

**Examples:**

- R201\*\*0106060608-24" with full length Spring Guard is R201\*\*0106060608-24" with SG-097 -18.80" (The SG length equals the hose assembly Over All Length (OAL) less fittings overall length — the "A" dimension in the fitting table).

- The \*\* allows hose to be entered that is five characters in length. For example, if you required 301LT hose instead of 201, the assembly would be R301LT0106060608-24.

• If a pre-made hose assembly is required with a non-HPD accessory part, please contact Parker Hannifin, FCG, Kit Division, 1290 Waterville-Montclove Road, Waterville, OH, 43566-1018, PH: (419) 878-7000, FAX: (419) 878-7001. (See — [www.parkerhose.com/value added services/](http://www.parkerhose.com/value%20added%20services/) — for more Kit Division information.)



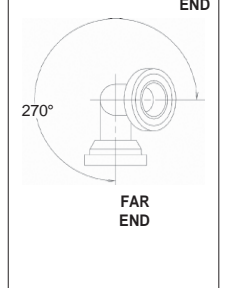
The Hose Assembly Part Number is R201\*\*0106060608-24".

- The Hose Part Number is 201-8.
- The Fitting Part Number - 1st end configuration - is 20120-6-8.
- The Fitting Part Number - 2nd end configuration - is 20620-6-8.

**Note:** The Over All Length (OAL) of the Seal-Lok® hose assembly is measured to the sealing surface of straight fittings or to the centerline of elbow fittings.

Expressed in INCHES. When expressed in MILLIMETERS, note length followed by "mm" (eg. 610mm). If elbow fittings are used, overall length is measured from centerline of fitting seat.

Specified only if two elbow fittings are used. Starting with either end as the far end, measured the angle clockwise to describe the displacement of the near end.



Hose  
A

Fittings  
B

Parkrimp Crimping Equipment  
C

Hose Assembly Equipment  
D

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E

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# **Parker** **With our connections,**

**For more than half a century, Parker Hannifin has been a pioneer and leader in the hose and fittings market.**

## **More Products**

With the largest selection of hose, and more fitting sizes and configurations than any other manufacturer, we have exactly what you need. Products of exceptional quality and reliability that meet or exceed market standards. In a wide choice of material, designs, shapes, sizes, covers and capabilities for your specific leak-free performance requirements.

But more parts is only part of what we offer you.

## **More People**

Our 2100 worldwide distributors give you many ways to get a quick fix fast. With more places to go for more help, more quickly. So when your equipment is down, we're up to the challenge right where it counts the most: near the job site. As the market leader, we've built meaningful relationships at both OEM and aftermarket levels, tailoring our products and our programs to the divergent needs of both audiences all over the world.

## **More Solutions**

From fast phone or on-site service - to ongoing customer training and education - our market technicians deliver the reliable help you need. While our dedicated Custom Manufacturing Facility allows us to respond to the unexpected as well as provide unique solutions. Providing short run custom, prototype fittings and bent tube assemblies without long lead times.

From hose, fittings and adapters to tools, crimpers, gauges and guides, our connections have helped us create innovative solutions for our customers. So when a hydraulic hose on a forklift fails...or an assembly goes on an injection-molding machine...we have all the extras needed to fix it fast.



### **Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories**

Parker Publication No. 4400-B.1  
Revised: May, 2002

**WARNING:** Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

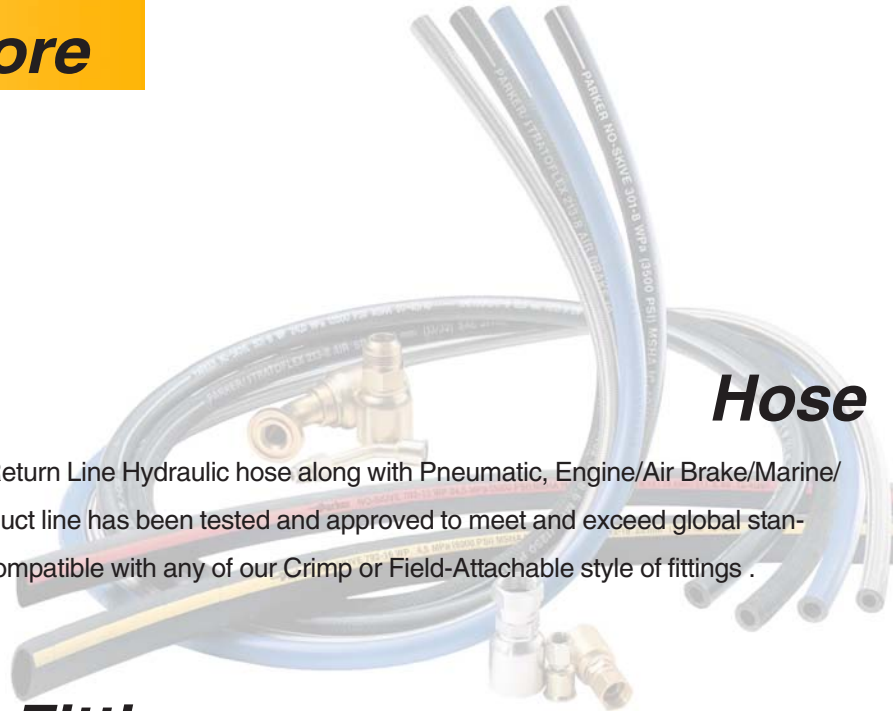
- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocutation from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions below. Only Hose from Parker's Stratoflex Products Division is approved for in flight aerospace applications, and no other Hose can be used for such in flight applications.



## **Hose** **we can offer you more**

Parker offers Braided, Spiral, Specialty and Suction & Return Line Hydraulic hose along with Pneumatic, Engine/Air Brake/Marine/Gas and Air Conditioning hose. Parker's complete product line has been tested and approved to meet and exceed global standards. Hose range in size from 1/4" to 2" I.D. and are compatible with any of our Crimp or Field-Attachable style of fittings .



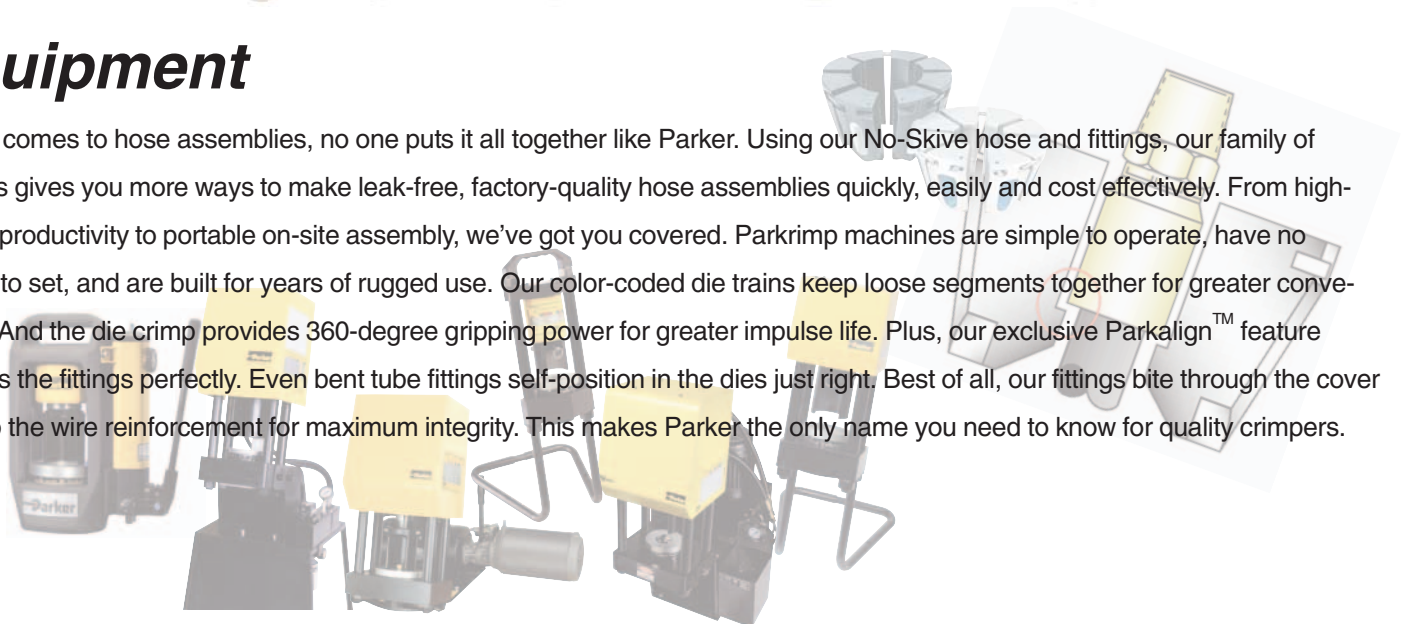
## **Hose**

## **Fittings**

Nobody offers more hose and fittings - in more variety - than Parker. With over 750 end configurations, our zinc-dichromate coated steel, brass and stainless fittings include O-ring face seal, flare, straight thread, male pipe and metric designs, in both crimp (26, 43, 70, 71, 73, 78, 79, 81 and HY Series) and field-attachable styles (20, 21, 22, 23, 30, 42, 82, 88 and TB Series). Along with Parker hose, all fittings have been tested and approved, meeting stringent industry standards worldwide such as NPTF, JIC, SAE, ISO, DIN, JIS, BSP and EN.

## **Equipment**

When it comes to hose assemblies, no one puts it all together like Parker. Using our No-Skive hose and fittings, our family of crimpers gives you more ways to make leak-free, factory-quality hose assemblies quickly, easily and cost effectively. From high-volume productivity to portable on-site assembly, we've got you covered. Parkrimp machines are simple to operate, have no gauges to set, and are built for years of rugged use. Our color-coded die trains keep loose segments together for greater convenience. And the die crimp provides 360-degree gripping power for greater impulse life. Plus, our exclusive Parkalign™ feature positions the fittings perfectly. Even bent tube fittings self-position in the dies just right. Best of all, our fittings bite through the cover and grip the wire reinforcement for maximum integrity. This makes Parker the only name you need to know for quality crimpers.







## *Parker makes*

**As part of the Fluid Connectors Group, Parker Hose offers its customers the widest range of value-added services.**



### ***ParkerStores***

Take, for instance, our ParkerStores. Located in more than 10 countries, and hundreds of U.S. locations, they provide walk-in customers with the ability to personally select the parts they need in a retail environment.

This hands-on approach provides another fast, convenient way for our customers to purchase fluid connectors.



### ***Mobile Services***

When a hose assembly fails on a critical piece of equipment, Parker is your best bet for on-the-job help. Our mobile services can be at your plant, or on your job site, in half the time. With a full complement of hose, a complete set of metrics, and all major thread configurations to create a replacement.

Parker mobile services is like having your Parker distributor come to you. It gives you a factory-trained professional to troubleshoot your problem. And it keeps your people working, not running errands.

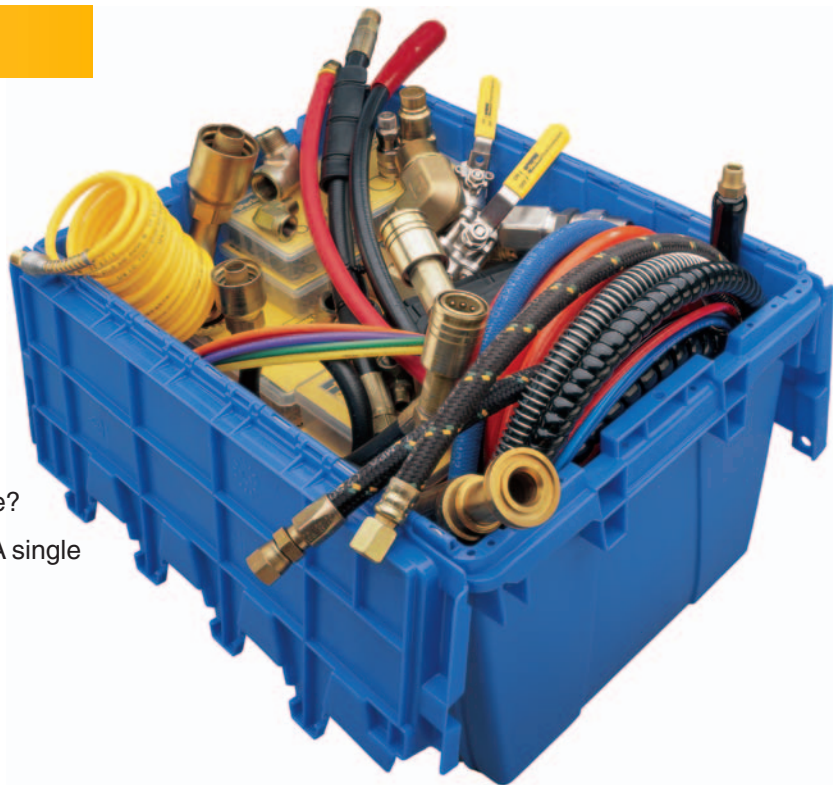




***Anything Possible™***

## ***Custom Kits***

Want to speed things up on the factory floor? Try a Parker custom kit. Fittings, adapters, pre-made assemblies...we can get it all together in a kit. In the exact order and quantities you need. What's the advantage? Streamlined procedures. Quicker assembly. Lower costs. A single part number for easier processing.



## ***Technical Support, Education & Training***

For fast phone or on-site help, our technicians and market-specific engineers are staffed in more than nine regions of the U.S. and throughout the world, offering you engineering support, fluid connector system design and product selection assistance. These experts reflect Parker's extensive commitment to training and education. Both on- and off-site training sessions are available for all customers, distributors and employees almost anywhere in the world. Topics range from hose routing tips and troubleshooting to safety procedures.





**The most fitting sizes and styles**

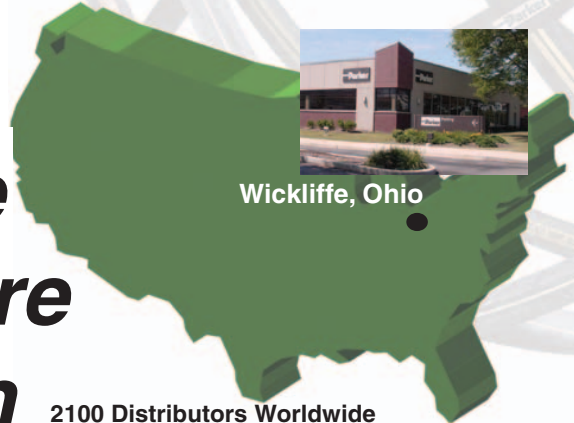
With more than 750 end configurations in steel, brass and stainless. Manufactured to stringent industry standards, worldwide.



**The largest selection of hoses**

From 1/4" to 3" I.D. with pressure ranges from vacuum applications to high-pressure, 6500 psi demands. Ultra flexible hose, too.

**Parker Hose gives you more choices than any other hose company.**



Wickliffe, Ohio

**2100 Distributors Worldwide**

Headquartered in Wickliffe, Ohio, Parker Hose has the largest global network in the industry, shipping parts 24 hours a day, and providing walk-in convenience in more than 10 countries. Including distributors all over the United States.



**Education & Training**

Ongoing training programs for customers and Parker personnel, on-site or off, all over the world.

**Which really only leaves you with one.**



**Mobile Services**

Cuts your replacement time in half when a hose assembly fails at the job site.

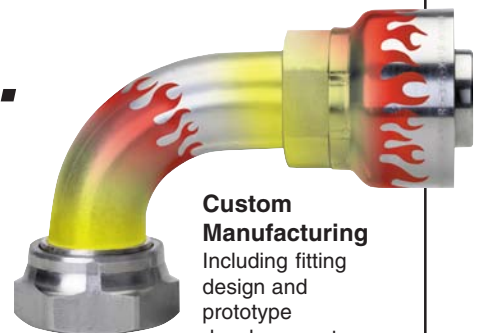


**Advanced Crimpers**

Parkrimp portable, bench-mounted or floor-mounted - recognized industry-wide as the easiest to use and most productive

**Technical Support**

More market-specific engineers and technicians for unequalled on-site support.



**Custom Manufacturing**

Including fitting design and prototype development.

[www.parkerhose.com](http://www.parkerhose.com)

**e support**  
visit our website for product and technical information





# Hose

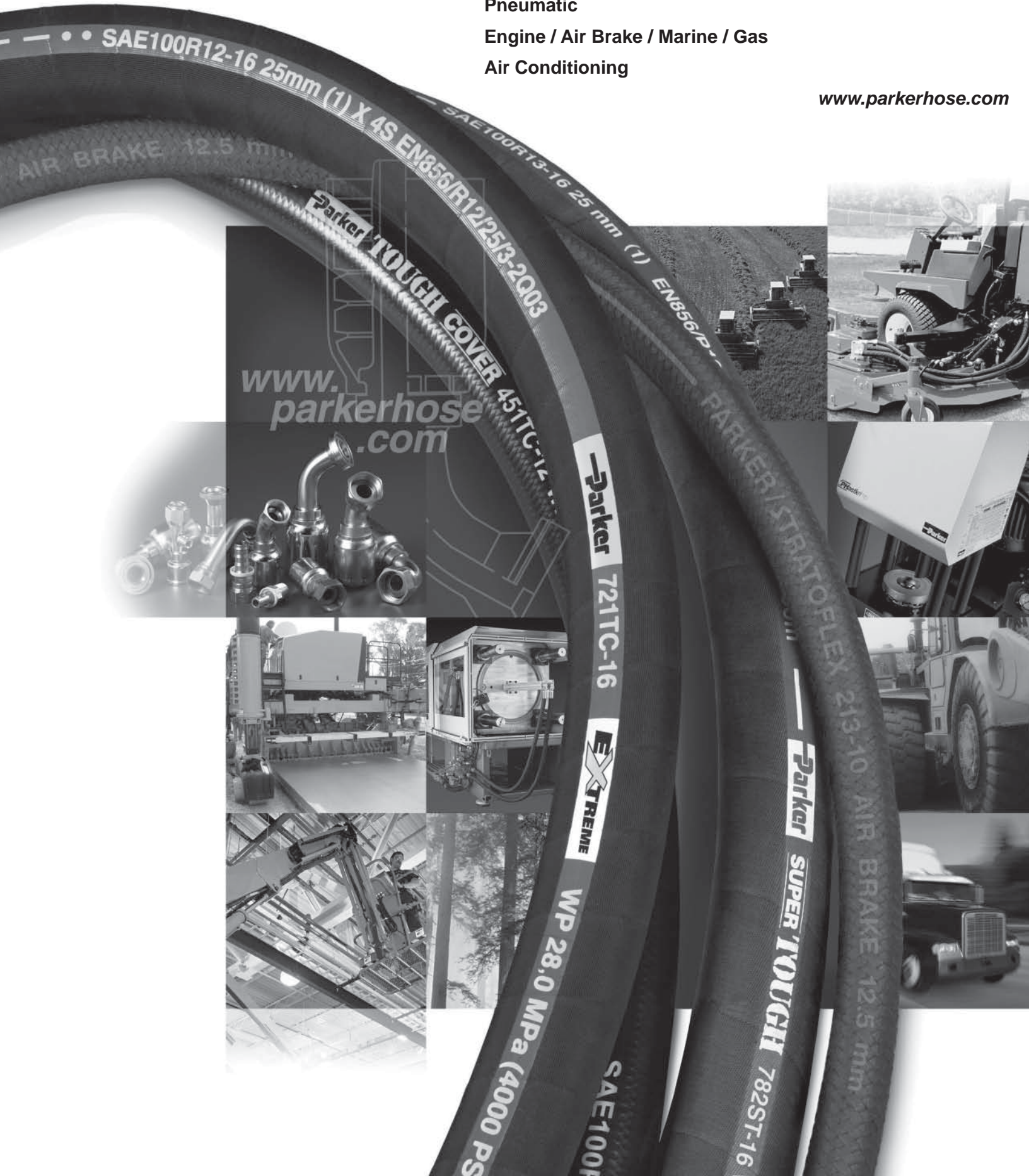
Hydraulic: Braided / Spiral / Specialty / Suction & Return

Pneumatic







































Engine / Air Brake / Marine / Gas






















Air Conditioning

[www.parkerhose.com](http://www.parkerhose.com)



Hose  
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Parkimp  
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Equipment  
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 <p><b>Braided Hydraulic Hose</b></p>	<p>601 A-4</p>  <p>Hydraulic Hose - No Skive SAE 100R3</p>	<p>AX A-4</p>  <p>Hydraulic Hose - No Skive SAE 100R1 Type AT</p>	<p>421 A-5</p>  <p>Hydraulic Hose - No Skive SAE 100R1 Type AT</p>
<p>482TC/ST A-5</p>  <p>SAE 100R1 EN 853 Type 1SN ISO 1436 Abrasion Resistant "Tough/Super Tough Cover"</p>	<p>BXX A-6</p>  <p>Hydraulic Hose - No Skive SAE 100R2 Type AT</p>	<p>301 A-6</p>  <p>Hydraulic Hose - No Skive SAE 100R2 Type AT</p>	<p>431 Compact® A-7</p>  <p>Hydraulic Hose - No Skive SAE 100R16</p>
<p>436 Compact® A-7</p>  <p>Hydraulic Hose - No Skive SAE 100R16</p>	<p>381 A-8</p>  <p>Hydraulic Hose - No Skive - SAE 100R2 Type AT - ISO 1436, EN 853 Type 2SN</p>	<p>471TC/ST A-8</p>  <p>EN 857 Type 2SC - Abrasion Resistant "Tough/Super Tough Cover"</p>	<p>472TC A-9</p>  <p>EN Type Hose Exceeds SAE 100R16 Abrasion Resistant "Tough Cover"</p>
<p>451TC/ST A-9</p>  <p>SAE 100R17 - Abrasion Resistant "Tough/Super Tough Cover"</p>	<p>351TC/ST A-10</p>  <p>4000psi Constant Working Pressure - Abrasion Resistant "Tough/Super Tough Cover"</p>		
 <p><b>Spiral Hydraulic Hose</b></p>	<p>341 A-11</p>  <p>Hydraulic Hose - No Skive SAE 100R9 Type AT</p>	<p>721 A-11</p>  <p>Hydraulic Hose - No Skive - SAE 100R12 EN856 Type R12 - ISO 3862-1 Type R12</p>	<p>721TC A-12</p>  <p>SAE 100R12 - 1/2 Minimum Bend Radius Abrasion Resistant "Tough Cover"</p>
<p>772TC/ST A-12</p>  <p>SAE 100R12 - EN 856 Type R12 - Abrasion Resistant "Tough/Super Tough Cover"</p>	<p>CN A-13</p>  <p>Hydraulic Hose - No Skive - 4 Spiral Wire Reinforced - Rubber Covered</p>	<p>781 A-13</p>  <p>Hydraulic Hose - No Skive - SAE 100R13 EN856-Type R13 - ISO 3862-1 Type R13</p>	<p>78C A-14</p>  <p>Hydraulic Hose - No Skive - SAE 100R13 EN856-Type R13 - ISO 3862-1 Type R13</p>
<p>782TC/ST A-14</p>  <p>SAE 100R13 - EN 856 Type R13 - Abrasion Resistant "Tough/Super Tough Cover"</p>	<p>791TC A-15</p>  <p>SAE 100R15 ISO3862-1Type R15 Abrasion Resistant "Tough Cover"</p>	<p>792TC/ST A-15</p>  <p>SAE 100R15 - Abrasion Resistant "Tough/ Super Tough Cover"</p>	<p>701 A-16</p>  <p>Hydraulic Hose - No Skive - EN 856 Type 4SP ISO 3862 Type 2 DIN 20 023-4SP</p>
<p>731 A-16</p>  <p>Hydraulic Hose - No Skive DIN 20 023-4SH EN 856 Type 4SH</p>			
 <p><b>Specialty Hydraulic Hose</b></p>	<p>604 A-17</p>  <p>Water Hose - No Skive</p>	<p>804 A-17</p>  <p>Air and Water Hose - For use with Push- Lok Fittings For Phosphate Ester Fluids</p>	<p>424 A-18</p>  <p>Hydraulic Hose - No Skive - SAE 100R1 AT For Phosphate Ester Fluids</p>
<p>304 A-18</p>  <p>Hydraulic Hose - No Skive For Phosphate Ester Fluids</p>	<p>774 A-19</p>  <p>Hydraulic Hose - No Skive For Phosphate Ester Fluids</p>	<p>821FR A-19</p>  <p>General Purpose Hose with Fire Resistant Fiber Cover For use with Push-Lok Fittings</p>	<p>421WC A-20</p>  <p>Hydraulic Hose - No Skive - SAE 100R1 Type AT with Protective Wire Cover</p>
<p>426 A-20</p>  <p>Hydraulic Hose - No Skive - SAE 100R1 Type AT (For High Temperature Service)</p>	<p>301LT A-21</p>  <p>Hydraulic Hose - No Skive - SAE 100R2 Type AT - For Low Temperature Service</p>	<p>JK A-21</p>  <p>10,000PSI Maximum Working Pressure IJ100 Hydraulic Jack Hose</p>	

<p><b>Suction &amp; Return Hydraulic Hose</b></p>	<p>811 A-22                        SAE 100R4 Hydraulic Suction Hose                      (1/2 SAE 100R4 Specified Bend Radius)</p>	<p>811HT A-22                        SAE 100R4 High Temperature Hydraulic Suction (1/2 SAE 100R4 Specified Bend Radius)</p>	<p>881 A-23                        SAE 100R4 Hydraulic Suction and Return Line Hose</p>
<p><b>Pneumatic Hose</b></p>	<p>801 A-24                        General Purpose Low Pressure Hose                      For use with Push-Lok Fittings</p>	<p>821 A-24                        General Purpose Hose                      For use with Push-Lok Fittings</p>	<p>831 A-25                        General Purpose Hose                      For use with Push-Lok Fittings</p>
<p>836 A-25                        General Purpose Hose - For High Temperature Use with Push-Lok Fittings</p>	<p>821FR A-26                        General Purpose Hose with Fire Resistant Fiber Cover For use with Push-Lok Fittings</p>	<p>804 A-26                        Air and Water Hose - For use with Push-Lok Fittings For Phosphate Ester Fluids</p>	
<p><b>Engine/Air Brake/Marine/Gas Hose</b></p>	<p>213 A-27                        SAE J1402 AI                      D.O.T. FMVSS 106 AI - Air Brake Hose</p>	<p>293 A-27                        Engine and Air Brake Hose                      SAE J1402 AI - D.O.T. FMVSS 106 AI</p>	<p>201/261 A-28                        SAE 100R5 SAE J1402 AII                      D.O.T. FMVSS 106 AII - Air Brake Hose</p>
<p>206 A-28                        SAE 100R5 SAE J1402 AII                      D.O.T. FMVSS 106 AII - Air Brake Hose</p>	<p>266 A-29                        SAE 100R5, SAE J1402 AII                      D.O.T. FMVSS 106 AII - Air Brake Hose</p>	<p>225 A-29                        Hydraulic Hose</p>	<p>221FR A-30                        Marine Fuel &amp; Engine Hose                      SAE J1527 Class I, SAE J1942, and ABS</p>
<p>SS23CG A-30                        Liquefied Petroleum Gas and Compressed Natural Gas Hose (CGA Type III)</p>	<p>SS25UL A-31                        Liquefied Petroleum Gas - UL Standard</p>		
<p><b>Air Conditioning Hose</b></p>	<p>285 A-32                        Air Conditioning and Refrigerant Hose                      SAE J2064 Type C, Class I</p>	<p>244 A-32                        Air Conditioning and Refrigerant Hose                      SAE J2064 Type B, Class I</p>	<p>235 A-32                        Refrigerant and Hydraulic Hose                      SAE J51 Type D</p>

Hose

A

B Fittings

C Parkrimp Crimping Equipment

D Hose Assembly Equipment

E Adapters

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601

Hydraulic Hose - No Skive  
SAE 100R3



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
601-4	1/4	6,3	0.56	14	1250	8,6	5000	35	3	75	0.13	0,19	43	B-23		
601-6	3/8	10	0.75	19	1125	7,8	4500	31	4	100	0.22	0,33	43	B-23		
601-8	1/2	12,5	0.92	23	1000	6,9	4000	28	5	125	0.28	0,42	43	B-23		
601-12	3/4	19	1.24	32	750	5,2	3000	21	6	150	0.43	0,64	43	B-23		
601-16	1	25	1.50	38	565	3,9	2250	16	8	200	0.61	0,91	43	B-23		

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, two fiber braids of reinforcement and an oil and weather resistant, black, Neoprene or PKR® synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the hose cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

AX

Hydraulic Hose - No Skive  
SAE 100R1 Type AT



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Crimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
AX04	1/4	6,3	0.50	13	3000	21	12000	84	2	50	0.15	0.22	HY	B-101		
AX06	3/8	10	0.62	16	3000	21	12000	84	2-1/2	65	0.19	0.28	HY	B-101		
AX08	1/2	12,5	0.75	19	2500	17,5	10000	70	3-1/2	90	0.24	0.36	HY	B-101		
AX10	5/8	16	0.88	22	1500	10,5	6000	42	4	100	0.29	0.43	HY	B-101		
AX12	3/4	19	1.01	26	1250	8,7	5000	35	4-3/4	120	0.34	0.51	HY	B-101		
AX16	1	25	1.29	33	1000	7	4000	28	6	150	0.48	0.72	HY	B-101		

**Construction:** Neoprene or synthetic rubber tube; one braid of high tensile steel wire reinforcement; and an oil and weather resistant MSHA accepted Neoprene or PKR® synthetic rubber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Permanent HY Series Fittings. See Section C for Permanent crimp fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

Braided Hydraulic Hose

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Fittings

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Parkrimp Crimping Equipment

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Hose Assembly Equipment

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Adapters

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Accessories

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Appendices

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421

Hydraulic Hose - No Skive SAE 100R1  
Type AT



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
421-3	3/16	5	0.46	12	3000	20,7	12000	83	3-1/2	90	0.13	0,19			42	B-161
421-4	1/4	6,3	0.53	13	2750	19,0	11000	76	4	100	0.16	0,24	43	B-23	42	B-161
421-5	5/16	8	0.59	15	2500	17,2	10000	69	4-1/2	115	0.18	0,27	43	B-23	42	B-161
421-6	3/8	10	0.68	17	2250	15,5	9000	62	5	130	0.23	0,34	43	B-23	42	B-161
421-8	1/2	12,5	0.81	21	2000	13,8	8000	55	7	180	0.29	0,43	43	B-23	42	B-161
421-10	5/8	16	0.94	24	1500	10,3	6000	41	8	200	0.33	0,49	43	B-23	42	B-161
421-12	3/4	19	1.09	28	1250	8,6	5000	35	9-1/2	240	0.42	0,63	43	B-23	42	B-161
421-16	1	25	1.41	36	1000	6,9	4000	28	12	300	0.63	0,94	43	B-23	42	B-161
421-20	1-1/4	31,5	1.79	45	625	4,3	2500	17	16-1/2	420	0.8	1,19	43	B-23		
421-24	1-1/2	38	2	51	500	3,5	2000	14	20	500	1	1,49	43	B-23		
421-32	2	51	2.54	64	375	2,6	1500	10	25	630	1.5	2,24	43	B-23		

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, a single braid of high tensile steel wire reinforcement and an oil and weather resistant, black, Neoprene or PKF® synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.** For air or gas applications above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series and Field-Attachable 42 Series. See Section C for Parkrimp or Section B for Field-Attachable fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

482TC/ST

Hydraulic Hose - No Skive  
SAE 100R1 EN 853 Type 1SN ISO 1436  
Abrasion Resistant "Tough Cover" and  
"Super Tough" Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
482TC-4	1/4	6,3	0.53	13	3250	22,7	13000	90,8	2	50	0.16	0,24	43	B-23	42	B-161
482TC-5	5/16	8	0.59	15	3250	22,7	13000	90,8	2-1/4	55	0.18	0,27	43	B-23	42	B-161
482TC-6	3/8	10	0.69	17	3000	21,0	12000	84,0	2-1/2	65	0.23	0,34	43	B-23	42	B-161
482TC-8	1/2	12,5	0.82	21	2500	17,5	10000	70,0	3-1/2	90	0.29	0,43	43	B-23	42	B-161
482TC-10	5/8	16	0.94	24	2000	14,0	8000	56,0	4	100	0.33	0,49	43	B-23	42	B-161
482TC-12	3/4	19	1.09	28	1750	12,2	7000	48,8	4-3/4	120	0.42	0,63	43	B-23	42	B-161
482TC-16	1	25	1.41	36	1275	8,8	5100	35,0	6	150	0.63	0,94	43	B-23	42	B-161
482ST-4	1/4	6,3	0.53	14	3250	22,7	13000	90,8	2	50	0.16	0,24	43	B-23	42	B-161
482ST-6	3/8	10	0.69	17	3000	21,0	12000	84,0	2-1/2	65	0.23	0,34	43	B-23	42	B-161
482ST-8	1/2	12,5	0.82	21	2500	17,5	10000	70,0	3-1/2	90	0.29	0,43	43	B-23	42	B-161
482ST-10	5/8	16	0.94	24	2000	14,0	8000	56,0	4	100	0.33	0,49	43	B-23	42	B-161
482ST-12	3/4	19	1.09	28	1750	12,2	7000	48,8	4-3/4	120	0.42	0,63	43	B-23	42	B-161
482ST-16	1	25	1.41	36	1275	8,8	5100	35,0	6	150	0.63	0,94	43	B-23	42	B-161

**482TC "Tough Cover" Construction:** Inner tube of oil resistant 100% Nitrile polymer with a minimum of 27 ACN value, a single braid of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber cover.

**482ST "Super Tough" Cover Construction:** Inner tube of oil resistant 100% Nitrile polymer with a minimum of 27 ACN value, a single braid of high tensile steel wire reinforcement and an oil and weather resistant, black, abrasion resistant synthetic rubber and UHMWPE cover.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C); **For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43 Series and Field-Attachable 42 Series. See Section C for Parkrimp or Section B for Field-Attachable fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.



Braided Hydraulic Hose  
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Parkrimp Crimping Equipment  
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Hose Assembly Equipment  
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## BXX

Hydraulic Hose - No Skive  
SAE 100R2 Type AT



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Crimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
BXX04	1/4	6,3	0.59	15	5000	35	20000	140	4	100	0.27	0.40	HY	B-101		
BXX06	3/8	10	0.74	19	4000	28	16000	112	5	125	0.38	0.57	HY	B-101		
BXX08	1/2	12,5	0.87	22	3500	24,5	14000	98	7	180	0.46	0.69	HY	B-101		
BXX10	5/8	16	1.00	25	2750	19,2	11000	77	8	200	0.55	0.82	HY	B-101		
BXX12	3/4	19	1.15	29	2250	15,7	9000	63	9-1/2	240	0.65	0.97	HY	B-101		
BXX16	1	25	1.49	38	2000	14	8000	56	12	305	0.98	1.46	HY	B-101		

**Construction:** Neoprene or synthetic rubber tube; two braids of high tensile steel wire reinforcement; and an oil and weather resistant MSHA accepted Neoprene or *PKR*<sup>®</sup> synthetic rubber cover.

**Application and Temperature Range:** Hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C);  
**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Permanent HY Series Fittings. See Section C for Permanent crimp fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

## 301

Hydraulic Hose - No Skive  
SAE 100R2 Type AT



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
301-4	1/4	6,3	0.59	15	5000	34,5	20000	138	4	100	0.26	0,39	43	B-23	30	B-147
301-6	3/8	10	0.75	19	4000	27,5	16000	110	5	130	0.37	0,55	43	B-23	30	B-147
301-8	1/2	12,5	0.88	22	3500	24	14000	96	7	180	0.45	0,67	43	B-23	30	B-147
301-10	5/8	16	1.00	25	2750	19	11000	76	8	200	0.52	0,77	43	B-23	30	B-147
301-12	3/4	19	1.16	29	2250	15,5	9000	62	9-1/2	240	0.67	1,00	43	B-23	30	B-147
301-16	1	25	1.50	38	2000	13,8	8000	55	12	300	1.00	1,49	43	B-23	30	B-147
301-20	1-1/4	31,5	1.86	47	1625	11,2	6500	45	16-1/2	420	1.16	1,73	43	B-23	30	B-147
301-24	1-1/2	38	2.14	54	1250	8,6	5000	35	20	500	1.44	2,14	43	B-23	30	B-147
301-32	2	51	2.64	67	1125	7,8	4500	31	25	630	1.99	2,96	43	B-23	30	B-147

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, two braids of high tensile steel wire reinforcement and an oil and weather resistant, black, Neoprene or *PKR*<sup>®</sup> synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series and Field-Attachable 30 Series. See Section C for Parkrimp or Section B for Field-Attachable fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

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 Parkrimp Crimping Equipment  
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 Hose Assembly Equipment  
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## 431 Compact®

### Hydraulic Hose - No Skive SAE 100R16



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
431-4	1/4	6,3	0.53	13	5000	34,5	20000	138	2	50	0.18	0,27	43	B-23		
431-5	5/16	8	0.59	15	4250	29,3	17000	117	2-1/4	55	0.24	0,36	43	B-23	42	B-161
431-6	3/8	10	0.68	17	4000	27,5	16000	110	2-1/2	65	0.28	0,42	43	B-23	42	B-161
431-8	1/2	12,5	0.81	21	3500	24	14000	96	3-1/2	90	0.34	0,51	43	B-23	42	B-161
431-10	5/8	16	0.94	24	2750	19	11000	76	4	100	0.44	0,66	43	B-23	42	B-161
431-12	3/4	19	1.09	28	2250	15,5	9000	62	4-3/4	120	0.54	0,80	43	B-23	42	B-161
431-16	1	25	1.41	36	2000	13,8	8000	55	6	150	0.82	1,22	43	B-23	42	B-161

**Construction:** Inner tube of oil resistant Nitrile synthetic rubber, two braids of high tensile steel wire and an oil and weather resistant, black, Neoprene or PKR® synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to 125°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi, (1,7 MPa) the hose cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series and 42 Series Field-Attachable. **THE SILVER DIE RING MUST BE USED WHEN CRIMPING 43 SERIES PARKRIMP FITTINGS ONTO 431 HOSE.** See Section C for Parkrimp or Section B for Field-Attachable fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

## 436 Compact®

### Hydraulic Hose - No Skive - SAE 100R16



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
436-6	3/8	10	0.68	17	4000	27,5	16000	110	2-1/2	65	0.28	0,42	43	B-23	42	B-161
436-8	1/2	12,5	0.81	21	3500	24	14000	96	3-1/2	90	0.34	0,51	43	B-23	42	B-161
436-10	5/8	16	0.94	24	2750	19	11000	76	4	100	0.44	0,66	43	B-23	42	B-161
436-12	3/4	19	1.09	28	2250	15,5	9000	62	4-3/4	120	0.54	0,80	43	B-23	42	B-161
436-16	1	25	1.41	36	2000	13,8	8000	55	6	150	0.82	1,22	43	B-23	42	B-161

**Construction:** Inner tube of oil resistant CPE or PKR® synthetic rubber, two braids of high tensile steel wire, and an oil and weather resistant, blue, Neoprene or PKR® synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -55°F to +302°F (-48°C to +150°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi, (1,7 MPa) the hose cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series and Field-Attachable 42 Series. **THE SILVER DIE RING MUST BE USED WHEN CRIMPING 43 SERIES PARKRIMP FITTINGS ONTO 436 HOSE.** See Section C for Parkrimp or Section B for Field-Attachable fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

Braided Hydraulic Hose  
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Fittings  
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Parkrimp Crimping Equipment  
C

Hose Assembly Equipment  
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Adapters  
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Accessories  
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Hydraulic Hose - No Skive - SAE 100R2  
Type AT - ISO 1436 Type 2AT - EN 853 Type 2SN



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
381-4	1/4	6,3	0.59	15	5800	40	23200	160	4	100	0.26	0,39	43	B-23	30	B-147
381-5	5/16	8	0.65	17	5250	36	21000	144	4-1/2	115	0.28	0,42	43	B-23		
381-6	3/8	10	0.75	19	5000	34,5	20000	138	5	130	0.37	0,55	43	B-23	30	B-147
381-8	1/2	12,5	0.88	22	4250	29,5	17000	118	7	180	0.45	0,67	43	B-23	30	B-147
381-10	5/8	16	1.00	25	3625	25	14500	100	8	200	0.52	0,77	43	B-23	30	B-147
381-12	3/4	19	1.16	29	3125	21,5	12500	86	9-1/2	240	0.67	1,00	43	B-23	30	B-147
381-16	1	25	1.50	38	2500	17,5	10000	70	12	300	1.00	1,49	43	B-23	30	B-147
381-20	1-1/4	31,5	1.86	47	2250	15,5	9000	62	16-1/2	420	1.44	2,16	43	B-23	30	B-147
381-24	1-1/2	38	2.14	54	1800	12,5	7200	50	20	500	1.82	2,72	43	B-23	30	B-147
381-32	2	51	2.64	67	1300	9	5200	36	25	630	2.23	3,35	43	B-23	30	B-147

**Construction:** Hose consists of inner tube of oil resistant high Nitrile polymer with a min. of 27 ACN value; two braids of special high tensile steel wire reinforcement; MSHA accepted synthetic rubber cover.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C); Polyol ester based hydraulic fluids within a temperature up to +150°F (+65°C);

**For temperature range of other media, see pages G-18 and G-19.** For air pressure above 250 psi (1,7 MPa) the cover should be pin-pricked.

**Fittings:** Parkrimp 43 series and Field-Attachable 30 series fittings (See catalog section C for Parkrimp assembly instructions or section B for Field-Attachable assembly instructions.)

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

471TC/ST

Hydraulic Hose - No Skive - EN 857 Type 2SC, ISO 11237-1  
Abrasion Resistant "Tough Cover" and  
"Super Tough" Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
471TC-4	1/4	6,3	0.51	13	5800	40,0	23200	160,0	2	50	0.20	0,30	43	B-23		
471TC-6	3/8	10	0.68	17	5000	35,0	20000	140,0	2-1/2	65	0.28	0,42	43	B-23		
471TC-8	1/2	12,5	0.80	20	4250	29,7	17000	119,0	3-1/2	90	0.35	0,52	43	B-23		
471TC-10	5/8	16	0.94	24	3625	25,0	14500	100,0	4	100	0.44	0,66	43	B-23		
471TC-12	3/4	19	1.09	28	3125	21,5	12500	86,0	4-3/4	120	0.58	0,86	43	B-23		
471TC-16	1	25	1.40	35	2500	17,5	10000	70,0	6	150	0.79	1,17	43	B-23		
471ST-4	1/4	6,3	0.51	13	5800	40,0	23200	160,0	2	50	0.20	0,30	43	B-23		
471ST-6	3/8	10	0.67	17	5000	35,0	20000	140,0	2-1/2	65	0.28	0,42	43	B-23		
471ST-8	1/2	12,5	0.80	20	4250	29,7	17000	119,0	3-1/2	90	0.35	0,52	43	B-23		
471ST-10	5/8	16	0.94	24	3625	25	14500	100	4	100	0.44	0,66	43	B-23		
471ST-12	3/4	19	1.10	28	3125	21,5	12500	86	4-3/4	120	0.58	0,86	43	B-23		
471ST-16	1	25	1.38	35	2500	17,5	10000	70	6	150	0.79	1,17	43	B-23		

**471TC "Tough Cover" Construction:** Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement, and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**471ST "Super Tough" Cover Construction:** Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement, and an oil and weather resistant, black, synthetic rubber and UHMWPE abrasion resistant cover.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°F to +212°F (-40°C to +100°C); **For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43 Series. **THE SILVER DIE RING MUST BE USED WHEN CRIMPING 43 SERIES PARKRIMP FITTINGS ONTO 471 HOSE.**

See Section C for Parkrimp assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.



A Braided Hydraulic Hose

B Fittings

C Parkrimp Crimping Equipment

D Hose Assembly Equipment

E Adapters

F Accessories

G Appendices

## 472TC

Hydraulic Hose - No Skive - ISO 11237-1  
Abrasion Resistant "Tough Cover"  
Exceeds SAE 100R16 EN Type Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
472TC-20	1 1/4	31,5	1.79	45	2250	15,7	9000	63,0	8-1/4	210	1.34	2,01	43	B-23		
472TC-24	1 1/2	38	2.01	51	1800	12,5	7200	50,0	10	250	1.44	2,16	43	B-23		
472TC-32	2	51	2.54	65	1300	9,0	5200	36,0	12-1/2	315	1.93	2,90	43	B-23		

**Construction:** Inner tube of oil resistant 100% Nitrile polymer with a minimum of 27 ACN value, two braids of high tensile steel wire reinforcement, and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**Application and Temperature Range:** petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to 212°F (-40°C to +100°C); Polyol ester fluids up to +150°F (+65°C);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43 Series. **THE SILVER DIE RING MUST BE USED WHEN CRIMPING 43 SERIES PARKRIMP FITTINGS ONTO 472TC HOSE.** See Section C for Parkrimp assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

## 451TC/ST

Hydraulic Hose - No Skive - SAE 100R17  
Abrasion Resistant "Tough Cover" and  
"Super Tough" Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
451TC-4	1/4	6,3	0.52	13	3000	21,0	12000	84,0	2	50	0.16	0,24	43	B-23		
451TC-6	3/8	10	0.68	17	3000	21,0	12000	84,0	2-1/2	65	0.23	0,34	43	B-23		
451TC-8	1/2	12,5	0.80	20	3000	21,0	12000	84,0	3-1/2	90	0.35	0,52	43	B-23		
451TC-10	5/8	16	0.94	24	3000	21,0	12000	84,0	4	100	0.44	0,66	43	B-23		
451TC-12	3/4	19	1.10	28	3000	21,0	12000	84,0	4-3/4	120	0.58	0,86	43	B-23		
451TC-16	1	25	1.40	35	3000	21,0	12000	84,0	6	150	0.79	1,17	43	B-23		
451TC-20	1-1/4	31,5	1.85	47	3000	21,0	12000	84,0	8-1/4	210	1.50	2,23	43	B-23		
451ST-4	1/4	6,3	0.52	13	3000	21,0	12000	84,0	2	50	0.16	0,24	43	B-23		
451ST-6	3/8	10	0.68	17	3000	21,0	12000	84,0	2-1/2	65	0.23	0,34	43	B-23		
451ST-8	1/2	12,5	0.80	20	3000	21,0	12000	84,0	3-1/2	90	0.35	0,52	43	B-23		
451ST-10	5/8	16	0.94	24	3000	21,0	12000	84,0	4	100	0.44	0,66	43	B-23		
451ST-12	3/4	19	1.10	28	3000	21,0	12000	84,0	4-3/4	120	0.58	0,86	43	B-23		
451ST-16	1	25	1.40	35	3000	21,0	12000	84,0	6	150	0.79	1,17	43	B-23		
451ST-20	1-1/4	31,5	1.85	47	3000	21,0	12000	84,0	8-1/4	210	1.50	2,23	43	B-23		

**451TC "Tough Cover" Construction:** Inner tube of oil resistant Nitrile based synthetic rubber, a high tensile steel wire reinforcement according to hose design (one or two braids for sizes -4 through -16, and 4 spiral plies for size -20), and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**451ST "Super Tough" Cover Construction:** Inner tube of oil resistant Nitrile based synthetic rubber, a high tensile steel wire reinforcement according to hose design (one or two braids for sizes -4 through -16, and 4 spiral plies for size -20), and an oil and weather resistant, black, synthetic rubber and abrasion resistant UHMWPE cover.

**Application and Temperature Range:** 3000 psi (21 MPa) hose for applications where greater protection against abrasion is required. Most petroleum-base hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series. **THE SILVER DIE RING MUST BE USED WHEN CRIMPING 43 SERIES PARKRIMP FITTINGS ONTO 451TC/ST HOSE.** See Section C for Parkrimp assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

**Note:** 451TC-20 and 451ST-20 with 43 Series fittings cannot be crimped with Karrykrimp, Minikrimp or Parkrimp 1.

### 351TC/ST

Hydraulic Hose - Abrasion Resistant “Tough Cover” and “Super Tough” Cover  
4000p.s.i (28,0 MPa) Constant Working Pressure



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	Mpa	psi	Mpa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
351TC-4	1/4	6,3	0.51	13	4000	28	16000	112	2	50	0.20	0,30	43	B-23		
351TC-6	3/8	10	0.67	17	4000	28	16000	112	2-1/2	65	0.28	0,42	43	B-23		
351TC-8	1/2	12,5	0.80	20	4000	28	16000	112	3-1/2	90	0.35	0,52	43	B-23		
351TC-10	5/8	16	0.93	24	4000	28	16000	112	4	100	0.44	0,66	43	B-23		
351TC-12	3/4	19	1.09	28	4000	28	16000	112	4-3/4	120	0.58	0,86	43	B-23		
351ST-4	1/4	6,3	0.52	13	4000	28,0	16000	112	2	50	0.20	0,30	43	B-23		
351ST-6	3/8	10	0.67	17	4000	28,0	16000	112	2-1/2	65	0.28	0,42	43	B-23		
351ST-8	1/2	12,5	0.80	20	4000	28,0	16000	112	3-1/2	90	0.35	0,52	43	B-23		
351ST-10	5/8	16	0.93	24	4000	28,0	16000	112	4	100	0.44	0,66	43	B-23		
351ST-12	3/4	19	1.09	28	4000	28,0	16000	112	4-3/4	120	0.58	0,86	43	B-23		

**351TC “Tough Cover” Construction:** Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**351ST “Super Tough” Cover Construction:** Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement and an oil and weather resistant, black synthetic rubber and abrasion resistant UHMWPE cover.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°F to +212°F (-40°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43 Series Fittings. See catalog section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

Braided Hydraulic Hose

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Fittings

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Parkrimp Crimping Equipment

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Hose Assembly Equipment

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### 341

#### Hydraulic Hose - No Skive SAE 100R9 Type AT



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
341-6	3/8	10	0.78	20	4500	31,5	18000	126,0	5	130	0.50	0,74	43	B-23		
341-8	1/2	12,5	0.89	23	4000	28,0	16000	112,0	7	180	0.62	0,92	43	B-23		
341-12	3/4	19	1.17	30	3000	21,0	12000	84,0	9-1/2	240	0.92	1,37	43	B-23		
341-16	1	25	1.51	38	3000	21,0	12000	84,0	12	300	1.28	1,90	43	B-23		
341-20	1-1/4	31,5	1.87	47	2500	17,5	10000	70,0	16-1/2	420	1.79	2,66	43	B-23		

**Construction:** Inner tube of oil resistant Neoprene synthetic rubber, four spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa) the cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series. See Section C for Parkrimp fitting assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

### 721

#### Hydraulic Hose - No Skive SAE 100R12 - EN856 Type R12 ISO 3862-1 Type R12



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
721-6	3/8	10	0.80	20	4000	28,0	16000	112,0	2-1/2	62,5	0.40	0,60	71	B-59		
721-8	1/2	12,5	0.93	24	4000	28,0	16000	112,0	3-1/2	90	0.62	0,93	71	B-59		
721-10	5/8	16	1.08	27	4000	28,0	16000	112,0	4	100	0.74	1,10	71	B-59		
721-12	3/4	19	1.21	31	4000	28,0	16000	112,0	4-3/4	120	0.94	1,40	71	B-59		
721-16	1	25	1.50	38	4000	28,0	16000	112,0	6	150	1.34	1,99	71	B-59		
721-20	1-1/4	31,5	1.84	46	3000	21,0	12000	84,0	8-1/2	210	1.74	2,59	71	B-59		
721-24	1-1/2	38	2.07	53	2500	17,5	10000	70,0	10	250	2.01	2,99	71	B-59		
721-32	2	51	2.59	66	2500	17,5	10000	70,0	12-1/2	320	2.75	4,09	71	B-59		

**Construction:** Oil-resistant Neoprene synthetic rubber inner tube; Four-spiral high-tensile steel wire reinforcement; oil- and weather-resistant, black, synthetic rubber, MSHA-accepted cover.

**Application and temperature range:** Petroleum-based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C); Water, water/oil emulsion and water/glycol hydraulic fluids up to +185°F (+85°C); Air up to +158°F (+70°C), for air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 71 Series and BW Series. See Section C for assembly instructions.

### 721TC

Hydraulic Hose - No-Skive - SAE 100R12 - EN 856  
Type R12 - ISO 3862-1 Type R12  
Abrasion Resistant "Tough Cover"  
(1/2 SAE 100R12 specified minimum bend radius)



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
721TC-6	3/8	10	0.80	20	4000	28,0	16000	112,0	2-1/2	62,5	0.40	0,60	71	B-59		
721TC-8	1/2	12,5	0.94	24	4000	28,0	16000	112,0	3-1/2	90	0.54	0,80	71	B-59		
721TC-10	5/8	16	1.08	27	4000	28,0	16000	112,0	4	100	0.74	1,10	71	B-59		
721TC-12	3/4	19	1.21	31	4000	28,0	16000	112,0	4-3/4	120	0.94	1,40	71	B-59		
721TC-16	1	25	1.50	38	4000	28,0	16000	112,0	6	150	1.34	1,99	71	B-59		
721TC-20	1-1/4	31,5	1.84	46	3000	21,0	12000	84,0	8-1/4	210	1.74	2,59	71	B-59		
721TC-24	1-1/2	38	2.07	53	2500	17,5	10000	70,0	10	250	2.01	2,99	71	B-59		
721TC-32	2	51	2.59	66	2500	17,5	10000	70,0	12-1/2	320	2.75	4,09	71	B-59		

**Construction:** Inner tube of oil resistant Neoprene synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp fittings 71 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

### 772TC/ST

Hydraulic Hose - No Skive - SAE 100R12  
EN 856 Type R12 - ISO 3862-1 Type R12 - Abrasion  
Resistant "Tough Cover" and "Super Tough" Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
772TC-6	3/8	10	0.79	20	4000	28,0	16000	112,0	5	125	0.40	0,60	71	B-59		
772TC-8	1/2	12,5	0.93	24	4000	28,0	16000	112,0	7	180	0.62	0,93	71	B-59		
772TC-10	5/8	16	1.08	27	4000	28,0	16000	112,0	8	200	0.74	1,1	71	B-59		
772TC-12	3/4	19	1.20	31	4000	28,0	16000	112,0	9-1/2	240	0.94	1,40	71	B-59		
772TC-16	1	25	1.48	38	4000	28,0	16000	112,0	12	300	1.34	1,99	71	B-59		
772TC-20	1-1/4	31,5	1.84	46	3000	21,0	12000	84,0	16-1/2	420	1.74	2,59	71	B-59		
772TC-24	1-1/2	38	2.07	53	2500	17,5	10000	70,0	20	500	2.01	2,99	71	B-59		
772TC-32	2	51	2.59	66	2500	17,5	10000	70,0	25	630	2.75	4,09	71	B-59		
772ST-6	3/8	10	0.80	20	4000	28,0	16000	112,0	5	125	0.40	0,60	71	B-59		
772ST-8	1/2	12,5	0.94	24	4000	28,0	16000	112,0	7	180	0.62	0,93	71	B-59		
772ST-10	5/8	16	1.08	27	4000	28,0	16000	112,0	8	200	0.74	1,10	71	B-59		
772ST-12	3/4	19	1.21	31	4000	28,0	16000	112,0	9-1/2	240	0.94	1,40	71	B-59		
772ST-16	1	25	1.5	38	4000	28,0	16000	112,0	12	300	1.34	1,99	71	B-59		
772ST-20	1-1/4	31,5	1.84	46	3000	21,0	12000	84,0	16-1/2	420	1.74	2,59	71	B-59		
772ST-24	1-1/2	38	2.07	53	2500	17,5	10000	70,0	20	500	2.01	2,99	71	B-59		
772ST-32	2	51	2.59	66	2500	17,5	10000	70,0	25	630	2.75	4,09	71	B-59		

**772TC "Tough Cover" Construction:** Inner tube of oil resistant Nitrile synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**772ST "Super Tough" Cover Construction:** Inner tube of oil resistant Nitrile synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber and UHMWPE, abrasion resistant cover.

**Applications and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 71 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

Spiral Hydraulic Hose

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Fittings

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Parkrimp Crimping Equipment

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Hose Assembly Equipment

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Appendices

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## CN

### Hydraulic Hose - No Skive 4 Spiral Wire Reinforced - Rubber Covered



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
CN20	1-1/4	31,5	1.73	43,9	4,000	28,0	16,000	112,0	18	460	1.72	2,57	73	B-75		
CN24	1-1/2	38	2.04	51,9	3,000	21,0	12,000	84,0	22	560	2.21	3,30	73	B-75		
CN32	2	51	2.62	66,6	3,000	21,0	12,000	84,0	28	710	3.10	4,60	73	B-75		

**Construction:** Inner tube of oil resistant neoprene synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber cover. The hose cover shall be MSHA accepted unless otherwise permitted in the purchase order.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°F to +257°F (-40°C to +125°C); water, water/oil emulsion and water/glycol hydraulic fluids up to +185°F (+85°C); air up to +158°F (+70°C)

**Fittings:** Parkrimp 73 Series and Permanent BW Series. See Section C for assembly instructions. For Permanent BW Series Fittings assembly instructions, see Bul. 4480-B94-US.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

## 781

### Hydraulic Hose - No Skive SAE 100R13 - EN856-Type R13 ISO 3862-1 Type R13



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
781-12	3/4	19	1.26	32	5000	35,0	20000	140,0	9-1/2	240	1.07	1,59	78	B-83		
781-16	1	25	1.52	39	5000	35,0	20000	140,0	12	300	1.48	2,20	78	B-83		
781-20	1-1/4	31,5	1.96	50	5000	35,0	20000	140,0	16-1/2	420	2.48	3,69	78	B-83		
781-24	1-1/2	38	2.26	57	5000	35,0	20000	140,0	20	500	3.22	4,79	78	B-83		

**Construction:** Oil-resistant Neoprene synthetic rubber inner tube; Four- or six- spiral high-tensile steel wire reinforcement; oil- and weather-resistant, black, synthetic rubber, MSHA-accepted cover.

**Application and temperature range:** Petroleum-based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C); Water, water/oil emulsion and water/glycol hydraulic fluids up to +185°F (+85°C); Air up to +158°F (+70°C), for air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 78 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

**Note:** See 78C hose on page B-14 for size -32 (2").

Spiral Hydraulic Hose  
A

Fittings  
B

Parkrimp Crimping Equipment  
C

Hose Assembly Equipment  
D

Adapters  
E

Accessories  
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## 78C

Hydraulic Hose - No Skive  
SAE 100R13 - EN856-Type R13  
ISO 3862-1 Type R13



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
78C-32	2	51	2.80	71	5000	35,0	20000	140,0	25	630	5.03	7,48	78	B-83		

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, red, Neoprene or "PKR" synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40F to +257F (-40C to +125C); Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185F (+85C); Air within a temperature range of -40F to +158F (-40C to +70C). For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 78 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

## 782TC/ST

Hydraulic Hose - No Skive - SAE 100R13  
EN 856 Type R13 - ISO 3863-1 Type R13  
Abrasion Resistant "Tough Cover" and  
"Super Tough" Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
782TC-12	3/4	19	1.26	32	5000	35,0	20000	140,0	9-1/2	240	1.07	1,59	78	B-83		
782TC-16	1	25	1.52	39	5000	35,0	20000	140,0	12	300	1.48	2,20	78	B-83		
782TC-20	1-1/4	31,5	1.96	50	5000	35,0	20000	140,0	16-1/2	420	2.48	3,69	78	B-83		
782TC-24	1-1/2	38	2.26	57	5000	35,0	20000	140,0	20	500	3.22	4,79	78	B-83		
782ST-12	3/4	19	1.26	32	5000	35,0	20000	140,0	9-1/2	240	1.07	1,59	78	B-83		
782ST-16	1	25	1.52	39	5000	35,0	20000	140,0	12	300	1.48	2,20	78	B-83		
782ST-20	1-1/4	31,5	1.96	50	5000	35,0	20000	140,0	16-1/2	420	2.48	3,69	78	B-83		
782ST-24	1-1/2	38	2.26	57	5000	35,0	20000	140,0	20	500	3.22	4,79	78	B-83		

**782TC "Tough Cover" Construction:** Inner tube of oil resistant Nitrile synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**782ST "Super Tough" Cover Construction:** Inner tube of oil resistant Nitrile synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber and UHMWPE, abrasion resistant cover.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 78 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

Hydraulic Hose

A

Fittings

B

Parkrimp Crimping Equipment

C

Hose Assembly Equipment

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Adapters

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Accessories

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Appendices

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### 791TC **EXTREME**

Hydraulic Hose - No Skive  
SAE 100R15 - ISO3862-1Type R15  
Abrasion Resistant Tough Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
791TC-12	3/4	19	1.26	32	6000	42,0	24000	168,0	8	200	1.07	1,59	79	B-93		
791TC-16	1	25	1.52	39	6000	42,0	24000	168,0	10	250	1.48	2,20	79	B-93		
791TC-20	1-1/4	31,5	1.97	50	6000	42,0	24000	168,0	10	250	2.48	3,69	79	B-93		
791TC-24*	1-1/2	38	2.28	58	6000	42,0	24000	168,0	12	305	3.22	4,79	79	B-93		

**Construction:** Inner tube of oil resistant synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**Application and Temperature Range:** Petroleum base hydraulic fluids and lubricating oils within a temperature range -40C to +125C (-40F to +257F) water, water/oil emulsion and water/glycol hydraulic fluids up to +85C (+185F) air up to +70C (+158F).

**Fittings:** Compatible with Parkrimp 79 series fittings. See Section C for assembly instructions.

\* 791TC-24 is factory crimp only

### 792TC/ST

Hydraulic Hose - No Skive- SAE 100R15  
ISO 3862-1 Type R15 - Abrasion Resistant  
"Tough Cover" and "Super Tough" Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
792TC-12	3/4	19	1.26	32	6000	42,0	24000	168,0	10-1/2	265	1.07	1,59	79	B-93		
792TC-16	1	25	1.52	39	6000	42,0	24000	168,0	13	330	1.48	2,20	79	B-93		
792TC-20	1-1/4	31,5	1.97	50	6000	42,0	24000	168,0	17-1/2	445	2.48	3,69	79	B-93		
792ST-12	3/4	19	1.26	32	6000	42,0	24000	168,0	10-1/2	265	1.07	1,59	79	B-93		
792ST-16	1	25	1.52	39	6000	42,0	24000	168,0	13	330	1.48	2,20	79	B-93		
792ST-20	1-1/4	31,5	1.97	50	6000	42,0	24000	168,0	17-1/2	445	2.48	3,69	79	B-93		

**792TC "Tough Cover" Construction:** Inner tube of oil resistant Nitrile synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

**792ST "Super Tough" Cover Construction:** Inner tube of oil resistant Nitrile synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber and UHMWPE abrasion resistant cover.

**Application and Temperature Range:** petroleum base hydraulic fluids and lubricating oils within a temperature range -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 79 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

Hydraulic Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

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**G**

701

Hydraulic Hose - No Skive - ISO 3862 Type 4SP  
EN 856 Type 4SP (DIN 20 023-4SP)



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
701-6	3/8	10	0.84	21	6500	45,0	26000	180,0	7	180	0.52	0,78	70	B-53		
701-8	1/2	12,5	0.97	25	6000	41,5	24000	166,0	9	230	0.62	0,93	70	B-53		
701-10	5/8	16	1.11	28	5000	35,0	20000	140,0	10	250	0.77	1,15	70	B-53		

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings :** Parkrimp 70 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

731

Hydraulic Hose - No Skive - ISO 3862-1 Type 4SH  
EN 856 Type 4SH (DIN 20 023-4SH)



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
731-12	3/4	19	1.27	32	6000	42,0	24000	168,0	11	280	1.16	1,72	73	B-75		
731-16	1	25	1.52	39	5500	38,0	22000	152,0	13-1/2	340	1.44	2,14	73	B-75		
731-20	1-1/4	31,5	1.79	45	4700	32,5	18800	130,0	18	460	1.99	2,96	73	B-75		
731-24	1-1/2	38	2.10	53	4200	29,0	16800	116,0	22	560	2.15	3,20	73	B-75		
731-32	2	51	2.68	68	3600	25,0	14400	100,0	27	700	3.56	5,30	73	B-75		

**Construction:** Synthetic rubber tube, four spirals of high tensile steel reinforcement, oil and weather resistant black synthetic rubber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 73 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

Hydraulic Hose

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Fittings

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Parkrimp Crimping Equipment

C

Hose Assembly Equipment

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Accessories

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604  
Water Hose - No Skive



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
604-6	3/8	10	0.75	19	300	2,1	1200	8,3	4	100	0.22	0,33	43	B-23		
604-8	1/2	12,5	0.92	23	300	2,1	1200	8,3	5	130	0.28	0,42	43	B-23		
604-16	1	25	1.50	38	300	2,1	1200	8,3	8	200	0.61	0,91	43	B-23		

**Construction:** Inner tube of EPDM synthetic rubber, a double fiber braid reinforcement and a red, EPDM synthetic rubber cover.  
**Application and Temperature Range:** Parker 604 hose was specifically developed for use as cooling water lines on injection molding equipment. Hot water up to +200°F (+93°C).  
**Fittings:** Parkrimp 43 Series. See Section C for assembly instructions.  
**Note:** THE BLACK DIE RING MUST BE USED WHEN CRIMPING PARKRIMP 43 SERIES FITTINGS ONTO 604 HOSE. USE PARKRIMP 43 SERIES FITTINGS ONLY.  
**Special Assembly Instructions for 604 Hose:** Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.  
**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

804  
Air and Water Hose  
For use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	804-4	1/4	6,3	0.50	12,7	150	1,0	600	4,2	2-1/2	64	0.09	0,13	15	51			82
804-6	3/8	10	0.63	15,9	150	1,0	600	4,2	3	76	0.11	0,16	15	51			82	B-175
804-8	1/2	12,5	0.78	19,8	150	1,0	600	4,2	5	127	0.18	0,27	15	51			82	B-175
804-12	3/4	19	1.03	26,2	150	1,0	600	4,2	7	178	0.24	0,36	15	51			82	B-175

**Construction:** EPDM synthetic rubber tube; one textile braid or a two spiral textile reinforcement; black, EPDM synthetic rubber cover.  
**Application and Temperature Range:** 804 Push-Lok Hose can also be used as a low pressure drain or return hose line with phosphate ester fluids up to +176°F (+80°C); Water and water/glycol hydraulic fluids up to +200°F (+93°C). Air up to +158°F (+70°C).  
**Fittings:** Push-Lok 82 Series. See Section B for assembly instructions.  
**Special Assembly Instruction for 804 Hose:** Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.  
**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

Hydraulic Hose  
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Parkrimp Crimping Equipment  
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Hose Assembly Equipment  
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Adapters  
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Accessories  
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G



424

Hydraulic Hose - No Skive  
For Phosphate Ester Fluids



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
424-16	1	25	1.40	36	1000	6,9	4000	28	12	300	0.63	0,94	43	B-23		
424-20	1-1/4	31,5	1.73	44	625	4,3	2500	17	16-1/2	420	0.80	1,19	43	B-23		
424-24	1-1/2	38	2.00	51	500	3,5	2000	14	20	500	1.00	1,49	43	B-23		
424-32	2	51	2.50	64	375	2,6	1500	10	25	630	1.50	2,23	43	B-23		

**Construction:** Inner tube of phosphate ester resistant EPDM synthetic rubber, a single braid of high tensile steel wire reinforcement and a phosphate ester and weather resistant, green, EPDM synthetic rubber cover.

**Application and Temperature Range:** Phosphate ester base hydraulic fluids within a temperature range of -40°C to +80°C (-40°F to +176°F);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

**Special Assembly Instructions for 424 Hose:** Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

304

Hydraulic Hose - No Skive  
For Phosphate Ester Fluids



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
304-4	1/4	6,3	0.59	15	5000	34,5	20000	138	4	100	0.26	0,39	43	B-23		
304-6	3/8	10	0.75	19	4000	27,5	16000	110	5	130	0.37	0,55	43	B-23		
304-8	1/2	12,5	0.88	22	3500	24	14000	96	7	180	0.45	0,67	43	B-23		
304-12	3/4	19	1.16	29	2250	15,5	9000	62	9-1/2	240	0.67	1,00	43	B-23		
304-16	1	25	1.50	38	2000	13,8	8000	55	12	300	1.00	1,49	43	B-23		
304-20	1-1/4	31,5	1.86	47	1625	11,2	6500	45	16-1/2	420	1.16	1,73	43	B-23		
304-24	1-1/2	38	2.14	54	1250	8,6	5000	35	20	500	1.44	2,14	43	B-23		
304-32	2	51	2.64	67	1125	7,8	4500	31	25	630	1.99	2,96	43	B-23		

**Construction:** Inner tube of phosphate ester resistant EPDM synthetic rubber, two braids of high tensile steel wire reinforcement and a phosphate ester and weather resistant, green, EPDM synthetic rubber cover.

**Application and Temperature Range:** Phosphate ester base hydraulic fluids within a temperature range of -40°F to +176°F (-40°C to +80°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa) the hose cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

**Special Assembly Instructions for 304 Hose:** Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

A Hydraulic Hose

B Fittings

C Parkrimp Crimping Equipment

D Hose Assembly Equipment

E Adapters

F Accessories

G Appendices

## 774

### Hydraulic Hose - No Skive For Phosphate Ester Base Fluids



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
774-12	3/4	19	1.21	31	4000	28,0	16000	112,0	9-1/2	240	0.94	1,40	71	B-59		
774-16	1	25	1.50	38	4000	28,0	16000	112,0	12	300	1.34	1,99	71	B-59		
774-20	1-1/4	31,5	1.84	46	3000	21,0	12000	84,0	16-1/2	420	1.74	2,59	71	B-59		
774-24	1-1/2	38	2.07	53	2500	17,5	10000	70,0	20	500	2.01	2,99	71	B-59		
774-32	2	51	2.59	66	2500	17,5	10000	70,0	25	630	2.75	4,09	71	B-59		

**Construction:** Inner tube of phosphate ester resistant EPDM synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and a phosphate ester and weather resistant, green, EPDM synthetic rubber cover.

**Applications and Temperature Range:** Phosphate ester base hydraulic fluids within a temperature range -40°C to +80°C (-40°F to +176°F);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

**Fittings:** Parkrimp 71 Series. See Section C for assembly instructions.

**Special Assembly Instructions for 774 Hose:** Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

## 821FR

### General Purpose Hose Fire Resistant Fiber Covered For use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	Series	Page	Series	Page
821FR-4	1/4	6,3	0.50	12,7	350	2,4	1400	9,7	2-1/2	64	0.08	0,12	28	95			82	B-175
821FR-6	3/8	10	0.63	15,9	300	2,1	1200	8,3	3	76	0.11	0,16	28	95			82	B-175
821FR-8	1/2	12,5	0.78	19,8	300	2,1	1200	8,3	5	127	0.12	0,18	28	95			82	B-175
821FR-12	3/4	19	1.03	26,2	250	1,7	1000	6,9	7	178	0.22	0,33	28	95			82	B-175

**Construction:** Inner tube of oil resistant PKR<sup>®</sup> synthetic rubber, a single fiber braid reinforcement and an oil, weather and fire resistant special fiber outer cover. Furnished in either black, green, blue, brown, white or as ordered.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C); Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air within a temperature range of up to +212°F (+100°C).

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Push-Lok 82 Series. See Section B for assembly instructions.

**Note:** Color code: White-WHT, Brown-BRN, Black-BLK, Green-GRN and Blue-BLU. Specify color when ordering. Example: For 821FR 3/8" I.D. blue hose, the part number is 821FR-6-BLU.

**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

## 421WC

Hydraulic Hose - No Skive  
SAE 100R1AT with a Protective Wire Cover



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
421WC-4	1/4	6,3	0.55	14	2750	19	11000	76	4	100	0.26	0,39	43	B-23		
421WC-6	3/8	10	0.71	18	2250	15,5	9000	62	5	130	0.36	0,54	43	B-23		
421WC-8	1/2	12,5	0.84	21	2000	13,8	8000	55	7	180	0.45	0,67	43	B-23		
421WC-12	3/4	19	1.12	28	1250	8,6	5000	35	9-1/2	240	0.64	0,95	43	B-23		
421WC-16	1	25	1.43	36	1000	6,9	4000	28	12	300	0.88	1,31	43	B-23		

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, a single braid of high tensile steel wire reinforcement, an oil and weather resistant, black, Neoprene or *PKR*<sup>®</sup> synthetic rubber cover and a protective over braid of galvanized steel wire.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C);

For temperature range of other media, see pages G-18 and G-19.

**Fittings:** Parkrimp 43 Series. See Section C for assembly instructions. **THE BLACK DIE RING MUST BE USED WHEN CRIMPING 43 SERIES PARKRIMP FITTINGS ON 421WC HOSE.**

**Note:** Protective overbraid does not have to be removed to attach Parker No-Skive fittings.

## 426

Hydraulic Hose - No Skive - SAE 100R1 Type AT  
(For High Temperature Service)



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
426-4	1/4	6,3	0.53	13	2750	19,2	11000	77,0	4	100	0.16	0,24	43	B-23		
426-6	3/4	10	0.68	17	2250	15,7	9000	63,0	5	125	0.23	0,34	43	B-23		
426-8	1/2	12,5	0.81	21	2000	14,0	8000	56,0	7	180	0.29	0,43	43	B-23		
426-10	5/8	16	0.94	24	1500	10,5	6000	42,0	8	200	0.33	0,49	43	B-23		
426-12	3/4	19	1.09	28	1250	8,7	5000	35,0	9-1/2	240	0.44	0,65	43	B-23		
426-16	1	25	1.40	36	1000	7,0	4000	28,0	12	300	0.66	0,98	43	B-23		
426-20	1-1/4	31,5	1.79	45	625	4,3	2500	17,5	16-1/2	420	0.94	1,40	43	B-23		
426-24	1-1/2	38	2.00	51	500	3,5	2000	14,0	20	500	0.98	1,46	43	B-23		
426-32	2	51	2.54	64	375	2,6	1500	10,6	25	630	1.46	2,18	43	B-23		

**Construction:** Inner tube of oil resistant *PKR*<sup>®</sup> synthetic rubber, a single braid of high tensile steel wire reinforcement and an oil and weather resistant, blue, Hypalon or *PKR*<sup>®</sup> synthetic rubber cover.

**Application and Temperature Range:** Petroleum-based hydraulic fluids and lubricating oils within a temperature range of -50°F to +302°F (-46°C to +150°C);

For temperature range of other media, see pages G-18 and G-19.

**Fittings:** Parkrimp 43 Series. See Section C for assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

### 301LT

Hydraulic Hose - No Skive - SAE 100R2  
Type AT For Low Temperature Service



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
301LT-4	1/4	6,3	0.59	15	5000	35,0	20000	140	4	100	0.26	0,39	43	B-23		
301LT-6	3/8	10	0.75	19	4000	28,0	16000	112	5	130	0.37	0,55	43	B-23		
301LT-8	1/2	12,5	0.88	22	3500	24,5	14000	98	7	180	0.45	0,67	43	B-23		
301LT-12	3/4	19	1.16	29	2250	15,7	9000	63	9-1/2	240	0.67	1,00	43	B-23		
301LT-16	1	25	1.50	38	2000	14,0	8000	56	12	300	1.00	1,49	43	B-23		

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, two braids of high tensile steel wire reinforcement and an oil and weather resistant, black, Neoprene or PKR synthetic rubber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -67°F to +212°F (-55°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.** For air above 250 psi (1,7 MPa), the hose cover should be pin-pricked.

**Fittings:** Parkrimp 43 Series Fittings. See Section C for Parkrimp assembly instructions.

**Note:** Hose cover does not have to be removed to attach Parker No-Skive fittings.

### JK

10,000psi Maximum Working Pressure  
SAE 100R2 Hydraulic Jack Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
JK-4	1/4	6,3	0.59	15	10 500	72,4	21 000	145	4	100	0.26	0,39	43	B-23		
JK-6	3/8	10	0.75	22	10 000	70	20 000	140	5	125	0.37	0,55	43	B-23		

**Construction:** Inner tube of oil resistant 100% Nitrile polymer with a minimum of 27 ACN value, two braids of high tensile steel wire reinforcement and an oil, abrasion and weather resistant, black, synthetic, MSHA accepted rubber cover.

**Applications and Temperature Range:** Static, non-impulse, hydraulic jack applications consistent with the scope of ASME B30.1 JACKS, Safety Standard for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks and Slings with petroleum based fluids within a temperature range of -40°F to +120°F (-40°C to +49°C).

**Fittings:** Parkrimp 43 Series part numbers 10143-4-4, 10143-4-6, 10143-6-4 and 10143-6-6 ONLY.

**Note:** THIS PRODUCT CAN ONLY BE ASSEMBLED BY CERTIFIED DISTRIBUTORS OR CUSTOMERS ACCORDING TO THE METHODS PRESCRIBED IN TECHNICAL BULLETIN 4480-T18-USA

Hydraulic Hose	A
Fittings	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



### 811 SAE 100R4

Hydraulic Suction and Return Line Hose  
(1/2 SAE 100R4 Specified Bend Radius)



#	Hose I.D.		Hose O.D.		Working Pressure				Burst Pressure				Minimum Bend Radius		Weight		Inches of Hg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	81		HC		81		HC		inch	mm	lbs/ft	kg/m	of Hg	kPa	Parkrimp Fitting		w/ HC	
					psi	Mpa	psi	Mpa	psi	MPa	psi	MPa							Series	Page	Series	Page
811-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	1200	8,3	400	2,8	2-1/2	64	0.42	0,63	25	84	81	B-97	88	B-193
811-16	1	25,4	1.50	38,0	250	1,7	70	0,5	1000	7,0	280	1,9	3	76	0.65	0,96	25	84	81	B-97	88	B-193
811-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	800	5,5	200	1,4	4	102	0.82	1,22	25	84	81	B-97	88	B-193
811-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	600	4,1	200	1,4	5	127	1.04	1,55	25	84	81	B-97	88	B-193
811-32	2	50,8	2.50	63,6	100	0,7	50	0,3	400	2,8	200	1,4	6	152	1.26	1,87	25	84	81	B-97	88	B-193
811-40	2-1/2	63,5	3.00	76,2	62	0,4	62	0,4	250	1,7	250	1,7	7	178	1.64	2,45	25	84			88	B-193

**Construction:** Synthetic rubber tube; two or four layers of spiral textile reinforcement; a helical reinforcing wire spiraled throughout the textile reinforcement to prevent collapse under vacuum; synthetic rubber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C); Water, water/glycol and water/oil emulsion hydraulic fluids up to +185°F (+85°C); Air up to +158°F (+70°F)

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43, Permanent Crimp 81 and Field-Attachable 88 Series. See Section C for Crimp and Section B for Field-Attachable fitting assembly instructions.

**Hose cover does not have to be removed to attach Parker No-Skive fittings.**

**Note:** 811 hose has different working and burst pressures based on the type of fitting attached to complete the hose assembly.

### 811HT SAE 100R4

High Temperature Hydraulic Suction and Return Line Hose  
(1/2 SAE 100R4 Specified Bend Radius)



#	Hose I.D.		Hose O.D.		Working Pressure				Burst Pressure				Minimum Bend Radius		Weight		Inches of Hg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	81		HC		81		HC		inch	mm	lbs/ft	kg/m	of Hg	kPa	Parkrimp Fitting		w/ HC	
					psi	Mpa	psi	Mpa	psi	MPa	psi	MPa							Series	Page	Series	Page
811HT-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	1200	8,3	400	2,8	2-1/2	64	0.42	0,63	25	84	81	B-97	88	B-193
811HT-16	1	25,4	1.50	38,0	250	1,7	70	0,5	1000	7,0	280	1,9	3	76	0.65	0,96	25	84	81	B-97	88	B-193
811HT-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	800	5,5	200	1,4	4	102	0.82	1,22	25	84	81	B-97	88	B-193
811HT-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	600	4,1	200	1,4	5	127	1.04	1,55	25	84	81	B-97	88	B-193
811HT-32	2	50,8	2.50	63,6	100	0,7	50	0,3	400	2,8	200	1,4	6	152	1.26	1,87	25	84	81	B-97	88	B-193
811HT-40	2-1/2	63,5	3.00	76,2	62	0,4	62	0,4	250	1,7	250	1,7	7	178	1.64	2,45	25	84			88	B-193

**Construction:** Premium oil-resistant synthetic rubber inner tube; two or four layers of spiral fabric reinforcement; a helical reinforcing wire spiraled throughout the textile reinforcement to prevent collapse under vacuum; an oil- and weather resistant, MSHA accepted, black synthetic rubber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C); Water, water/glycol and water/oil emulsion hydraulic fluids up to +185°F (+85°C); Air up to +158°F (+70°F)

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43, Permanent Crimp 81 and Field-Attachable 88 Series. See Section C for Crimp and Section B for Field-Attachable fitting assembly instructions.

**Hose cover does not have to be removed to attach Parker No-Skive fittings.**

**Note:** 811 hose has different working and burst pressures based on the type of fitting attached to complete the hose assembly.

A Hydraulic Hose  
 B Fittings  
 C Parkrimp Crimping Equipment  
 D Hose Assembly Equipment  
 E Adapters  
 F Accessories  
 G Appendices

881 SAE 100R4  
Hydraulic Suction and Return Line Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure				Burst Pressure				Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	43/81/DB		88HC		43/81/DB		88HC		inch	mm	lbs/ft	kg/m	of Hg	kPa	Series	Page	Series	Page
	psi	Mpa	psi	Mpa	psi	Mpa	psi	Mpa	psi	Mpa	psi	Mpa										
881-12	3/4	19,0	1.20	30,6	300	2,1	100	0,7	1200	8,3	400	2,8	5	127	0.50	0,74	28	95	43,81	B-23,B-97	88	B-193
881-16	1	25,4	1.49	37,9	250	1,7	70	0,5	1000	7,0	280	1,9	6	152	0.60	0,89	28	95	43,81	B-23,B-97	88	B-193
881-20	1-1/4	31,8	1.78	45,3	200	1,4	50	0,3	800	5,5	200	1,4	8	203	0.89	1,32	28	95	43,81	B-23,B-97	88	B-193
881-24	1-1/2	38,1	2.06	52,4	150	1	50	0,3	600	4,1	200	1,4	10	254	1.11	1,65	28	95	43,81	B-23,B-97	88	B-193
881-32	2	50,8	2.48	63,1	100	0,7	50	0,3	400	2,8	200	1,4	12	305	1.27	1,89	28	95	43,81	B-23,B-97	88	B-193
881-40	2-1/2	63,5	3.00	76,2	62	0,4	62	0,4	250	1,7	250	1,7	14	356	1.82	2,71	28	95			88	B-193

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, a single braid of fiber reinforcement, a helical reinforcing wire, a second braid of fiber reinforcement and an oil and weather resistant, black, Neoprene or PKR, MSHA accepted, synthetic rubber cover. synthetic rubber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C);

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 43 Series, Permanent Crimp 81 Series and Field-Attachable 88 Series. See Section C for Parkrimp and Permanent Crimp or Section B for Field-Attachable fitting assembly instructions.

**Hose cover does not have to be removed to attach Parker No-Skive fittings.**

**Note:** 881 hose has different working and burst pressures based on the type of fitting attached to complete the hose assembly.

Hydraulic Hose  
A  
Fittings  
B  
Parkrimp Crimping Equipment  
C  
Hose Assembly Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G

801

General Purpose Hose  
For use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	801-4	1/4	6,3	0.50	12,7	250	1,7	1000	6,8	2-1/2	65	0.09	0,13	28	95			82
801-6	3/8	10	0.63	15,9	250	1,7	1000	6,8	3	75	0.11	0,16	28	95			82	B-175
801-8	1/2	12,5	0.78	19,8	250	1,7	1000	6,8	5	125	0.18	0,27	28	95			82	B-175
801-10	5/8	16	0.91	23,0	250	1,7	1000	6,8	6	150	0.19	0,28	15	51			82	B-175
801-12	3/4	19	1.03	26,2	250	1,7	1000	6,8	7	180	0.24	0,36	15	51			82	B-175
801-16	1	25	1.28	32,6	175	1,2	700	4,8	10	250	0.37	0,55	15	51			82	B-175

**Construction:** Inner tube of oil resistant Nitrile based synthetic rubber, a single fiber braid or a two spiral fiber reinforcement and an oil and weather resistant, Neoprene or PKR<sup>®</sup> synthetic rubber MSHA accepted, cover. The hose cover is furnished in either , black, red, green, blue, yellow or as ordered.

**Application and Temperature Range:** Widely used for shop air systems and general industrial, maintenance and automotive applications. Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C); Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air up to +158°F (+70°C).

**Fittings:** Push-Lok 82 Series. See Section B for assembly instructions.

**Color code:** Gray-GRA, Red-RED, Yellow-YEL, Black-BLK, Green-GRN and Blue-BLU. Specify color when ordering. Example: For 801 3/8" I.D. blue hose, the part number is 801-6-BLU. If no color is specified, 801 Gray will be supplied.

**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

821

General Purpose Hose  
For use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	821-4	1/4	6,3	0.50	12,7	350	2,4	1400	9,7	2-1/2	64	0.06	0,09	28	95			82
821-6	3/8	10	0.63	15,9	300	2,1	1200	8,3	3	76	0.09	0,13	28	95			82	B-175
821-8	1/2	12,5	0.78	19,8	300	2,1	1200	8,3	5	127	0.12	0,18	28	95			82	B-175
821-10	5/8	16	0.91	23,0	250	1,7	1000	6,9	6	152	0.19	0,28	28	95			82	B-175
821-12	3/4	19	1.03	26,2	250	1,7	1000	6,9	7	178	0.21	0,31	28	95			82	B-175

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, a single fiber braid reinforcement and an oil, mildew and weather resistant synthetic rubber impregnated, black, fiber cover.

**Application and Temperature Range:** Widely used for shop air systems and general industrial, maintenance and automotive applications. Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C); Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air up to +158°F (+70°C).

**Fittings:** Push-Lok 82 Series. See Section B for assembly instructions.

**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

A Push-Lok Pneumatic Hose

B Fittings

C Parkrimp Crimping Equipment

D Hose Assembly Equipment

E Adapters

F Accessories

G Appendices

### 831

#### General Purpose Hose For use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	Series	Page	Series	Page
	831-4	1/4	6,3	0.50	12,7	350	2,4	1400	9,7	2-1/2	65	0.09	0,13	28	95			82
831-6	3/8	10	0.63	16	300	2,0	1200	8,3	3	75	0.11	0,16	28	95			82	B-175
831-8	1/2	12,5	0.78	20	300	2,0	1200	8,3	5	125	0.18	0,27	28	95			82	B-175
831-10	5/8	16	0.91	23	300	2,0	1200	8,3	6	150	0.19	0,28	15	51			82	B-175
831-12	3/4	19	1.03	26	300	2,0	1200	8,3	7	180	0.24	0,36	15	51			82	B-175

**Construction:** Synthetic rubber tube; one textile braid reinforcement; synthetic rubber, MSHA accepted cover. Furnished in black, blue, green, red, gray, and yellow.

**Application and Temperature Range:** Widely used for shop air systems and general industrial, maintenance and automotive applications. Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C); Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air within a temperature range of up to +158°F (+70°C).

**Fittings:** Push-Lok 82 Series. See Section B for assembly instructions.

**Color code:** Red-RED, Green-GRN and Blue-BLU. Specify color when ordering. Example: For 831 3/8" I.D. blue hose, the part number is 831-6-BLU. If no color is specified, 831 Black will be supplied.

**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

### 836

#### General Purpose PKR<sup>®</sup> Hose For High-Temperature use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	Series	Page	Series	Page
	836-4	1/4	6,3	0.5	12,7	250	1,7	1000	6,8	2-1/2	65	0.09	0,13	28	95			82
836-6	3/8	10	0.63	15,9	250	1,7	1000	6,8	3	75	0.11	0,16	28	95			82	B-175
836-8	1/2	12,5	0.78	19,8	250	1,7	1000	6,8	5	125	0.18	0,27	28	95			82	B-175
836-10	5/8	16	0.91	23,0	250	1,7	1000	6,8	6	150	0.19	0,28	15	51			82	B-175

**Construction:** Inner tube of oil resistant PKR<sup>®</sup> synthetic rubber, a single fiber braid or a two spiral fiber reinforcement and an oil and weather resistant, blue or black, PKR<sup>®</sup> synthetic rubber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils within a temperature range of -55°F to +302°F (-48°C to +150°C); Water, water/glycol and water/oil emulsion hydraulic fluids up to +185°F (+85°C); Air within a temperature range of up to +158°F (+70°C).

**Fittings:** Push-Lok 82 Series. See Section B for assembly instructions.

**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

## 821FR

General Purpose Hose  
Fire Resistant Fiber Covered  
For use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	821FR-4	1/4	6,3	0.50	12,7	350	2,4	1400	9,7	2-1/2	64	0.08	0,12	28	95			82
821FR-6	3/8	10	0.63	15,9	300	2,1	1200	8,3	3	76	0.11	0,16	28	95			82	B-175
821FR-8	1/2	12,5	0.78	19,8	300	2,1	1200	8,3	5	127	0.12	0,18	28	95			82	B-175
821FR-12	3/4	19	1.03	26,2	250	1,7	1000	6,9	7	178	0.22	0,33	28	95			82	B-175

**Construction:** Inner tube of oil resistant PKR synthetic rubber, a single fiber braid reinforcement and an oil, weather and fire resistant special fiber outer cover. Furnished in either black, green, blue, brown, white or as ordered.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C); Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air within a temperature range of up to +212°F (+100°C).

**Fittings:** Push-Lok 82 Series. See Section B for assembly instructions.

**Note:** Color code: White-WHT, Brown-BRN, Black-BLK, Green-GRN and Blue-BLU. Specify color when ordering. Example: For 821FR 3/8" I.D. blue hose, the part number is 821FR-6-BLU.

**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

## 804

Air and Water Hose  
For use with "Push-Lok" Fittings



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	804-4	1/4	6,3	0.50	12,7	150	1,0	600	4,2	2-1/2	64	0.09	0,13	15	51			82
804-6	3/8	10	0.63	15,9	150	1,0	600	4,2	3	76	0.11	0,16	15	51			82	B-175
804-8	1/2	12,5	0.78	19,8	150	1,0	600	4,2	5	127	0.18	0,27	15	51			82	B-175
804-12	3/4	19	1.03	26,2	150	1,0	600	4,2	7	178	0.24	0,36	15	51			82	B-175

**Construction:** EPDM synthetic rubber tube; one textile braid or a two spiral textile reinforcement; black, EPDM synthetic rubber cover.

**Application and Temperature Range:** 804 Push-Lok Hose can also be used as a low pressure drain or return hose line with phosphate ester fluids up to +176°F (+80°C); Water and water/glycol hydraulic fluids up to +200°F (+93°C). Air up to +158°F (+70°C).

**Special Assembly Instruction for 804 Hose:** Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

**Note:** Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

Push-Lok Pneumatic Hose

A

Fittings

B

Parkrimp Crimping Equipment

C

Hose Assembly Equipment

D

Adapters

E

Accessories

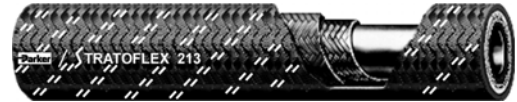
F

Appendices

G

213

SAE J1402 AI  
D.O.T. FMVSS 106 AI - Air Brake Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	213-4	3/16	5	0.49	12	2000	13,8	8000	55	3/4	20	0.12	0,18	28	95	26	B-5	21,23
213-5	1/4	6,3	0.55	14	1500	10,3	6000	41	1	25	0.14	0,21	28	95	26	B-5	21,23	B-129,B-143
213-6	5/16	8	0.62	16	1500	10,3	6000	41	1-1/4	30	0.17	0,25	28	95	26	B-5	21,23	B-129,B-143
213-8	13/32	10	0.74	19	1250	8,6	5000	34	1-3/4	45	0.20	0,30	28	95	26	B-5	21,23	B-129,B-143
213-10	1/2	12,5	0.83	21	1000	6,9	4000	28	2-1/4	55	0.22	0,33	28	95	26	B-5	21,23	B-129,B-143
213-12	5/8	16	0.96	24	750	5,2	3000	21	2-3/4	70	0.24	0,36	28	95	26	B-5	21,23	B-129,B-143
213-16	7/8	22	1.21	31	400	2,8	1600	11	3-1/2	90	0.30	0,45	20	68	26	B-5	21,23	B-129,B-143
213-20	1-1/8	29	1.49	38	300	2	1200	8	4-1/2	115	0.44	0,65	20	68	26	B-5	21,23	B-129,B-143
213-24	1-3/8	35	1.73	44	300	2	1200	8	7-1/2	190	0.52	0,77	15	51	26	B-5	21,23	B-129,B-143
213-32	1-13/16	46	2.14	54	200	1,4	800	6	14	355	0.67	1,00	11	37	26	B-5	21,23	B-129,B-143

**Construction:** Inner tube of oil resistant PKR® synthetic rubber, a fiber reinforcement, a high tensile steel wire braid reinforcement and an oil and weather resistant, synthetic polymer impregnated, black, fiber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude, fuel oils and anti-freeze solutions within a temperature range of -50°F to +302°F (-45°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Section G for the reduced maximum working pressure. Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air within a temperature range of up to +212°F (100°C).

**Fittings:** Parkrimp 26 Series and Field-Attachable 21 Series and 23 Series (Mandrel) Fittings (See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.)

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Engine & Air Brake/Truck Hose  
SAE J1402 AI  
D.O.T. FMVSS 106-AI Air Brake Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	293-4	3/16	5,1	0.49	12,5	500	3,4	2000	13,8	1/2	13	0.10	0,15	28	95	26	B-5	21,23
293-6	5/16	8,3	0.62	15,7	500	3,4	2000	13,8	1	25	0.15	0,22	28	95	26	B-5	21,23	B-129,B-143
293-8	13/32	10,3	0.74	18,7	500	3,4	2000	13,8	1-1/2	38	0.18	0,27	28	95	26	B-5	21,23	B-129,B-143
293-10	1/2	13,2	0.83	21,1	450	3,1	1800	12,4	2	51	0.20	0,30	28	95	26	B-5	21,23	B-129,B-143
293-12	5/8	16,4	0.96	24,3	450	3,1	1800	12,4	2-1/2	64	0.22	0,33	28	95	26	B-5	21,23	B-129,B-143
293-16	7/8	22,8	1.21	30,6	450	3,1	1800	12,4	3-1/2	89	0.25	0,37	20	68	26	B-5	21,23	B-129,B-143

**Construction:** Inner tube of oil resistant PKR® synthetic rubber and two braids of fiber reinforcement. The outer braid shall be an oil, weather and abrasion resistant, black, entangled filament nylon fiber cover.

**Application and Temperature Range:** Petroleum-base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions within a temperature range of -58°F to +302°F (-50°C to +150°C); **For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 26 Series and Field-Attachable 21 Series and 23 Series (Mandrel) Fittings (See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.)

201/261

SAE 100R5 SAE J1402 All  
D.O.T. FMVSS 106 All - Air Brake Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	Series	Page	Series	Page
	201/261-4	3/16	5	0.52	13	3000	20,7	12000	83	3	75	0.15	0,22	28	95	26	B-5	20,22
201/261-5	1/4	6,3	0,58	15	3000	20,7	12000	83	3-3/8	85	0,18	0,27	28	95	26	B-5	20,22	B-117,B-139
201/261-6	5/16	8	0,68	17	2250	15,5	9000	62	4	100	0,23	0,34	28	95	26	B-5	20,22	B-117,B-139
201/261-8	13/32	10	0,77	20	2000	13,8	8000	55	4-5/8	120	0,27	0,40	28	95	26	B-5	20,22	B-117,B-139
201/261-10	1/2	12,5	0,92	23	1750	12	7000	48	5-1/2	140	0,37	0,55	28	95	26	B-5	20,22	B-117,B-139
201/261-12	5/8	16	1,08	27	1500	10,3	6000	41	6-1/2	165	0,46	0,68	28	95	26	B-5	20,22	B-117,B-139
201/261-16	7/8	22	1,23	31	800	5,5	3200	22	7-3/8	185	0,46	0,68	20	68	26	B-5	20,22	B-117,B-139
201/261-20	1-1/8	29	1,50	38	625	4,3	2500	17	9	230	0,51	0,76	20	68	26	B-5	20,22	B-117,B-139
201/261-24	1-3/8	35	1,75	44	500	3,5	2000	14	10-1/2	265	0,68	1,01	15	51	26	B-5	20,22	B-117,B-139
201/261-32	1-13/16	46	2,22	56	350	2,4	1400	10	13-1/4	335	0,89	1,32	11	37	26	B-5	20,22	B-117,B-139
201-40	2-3/8	60	2,88	73	350	2,4	1400	10	24	610	1,31	1,95	11	37			20,22	B-117,B-139
201-48	3	76	3,56	90	200	1,4	800	6	33	840	2,09	3,11	11	37				

**Construction:** Inner tube of oil resistant Nitrile or Neoprene synthetic rubber, a fiber braid, a high tensile steel wire braid reinforcement, and an oil and weather resistant, synthetic rubber impregnated, black, fiber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude fuel, oils and anti-freeze solutions within a temperature range of -40°F to +302°F (-40°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Section G for the reduced maximum working pressure. Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air within a temperature range of up to +158°F (+70°C).

**Fittings:** Parkrimp 26 Series and Field-Attachable 20 Series and 22 Series (Mandrel) Fittings (See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.)

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SAE 100R5 SAE J1402 All  
D.O.T. FMVSS 106 All - Air Brake Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	Series	Page	Series	Page
	206-4	3/16	5	0.52	13	3000	20,7	12000	83	3	75	0.15	0,22	28	95	26	B-5	20, 22
206-5	1/4	6,3	0,58	15	3000	20,7	12000	83	3-3/8	85	0,18	0,27	28	95	26	B-5	20, 22	B-117,B-139
206-6	5/16	8	0,68	17	2250	15,5	9000	62	3-1/2	90	0,23	0,34	28	95	26	B-5	20, 22	B-117,B-139
206-8	13/32	10	0,77	20	2000	13,8	8000	55	3-1/2	90	0,27	0,40	28	95	26	B-5	20, 22	B-117,B-139
206-10	1/2	12,5	0,92	23	1750	12	7000	48	4	100	0,37	0,55	28	95	26	B-5	20, 22	B-117,B-139
206-12	5/8	16	1,08	27	1500	10,3	6000	41	4	100	0,46	0,68	28	95	26	B-5	20, 22	B-117,B-139
206-16	7/8	22	1,23	31	800	5,5	3200	22	4	100	0,46	0,68	20	68	26	B-5	20, 22	B-117,B-139
206-20	1-1/8	29	1,5	38	625	4,3	2500	17	5-1/2	140	0,51	0,76	20	68	26	B-5	20, 22	B-117,B-139
206-24	1-3/8	35	1,75	44	500	3,5	2000	14	7-1/2	190	0,68	1,01	15	51	26	B-5	20, 22	B-117,B-139
206-32	1-13/16	46	2,22	56	350	2,4	1400	10	13-1/4	335	0,89	1,32	11	37	26	B-5	20, 22	B-117,B-139
206-40	2-3/8	60	2,88	73	350	2,4	1400	10	24	610	1,31	1,95	11	37	26	B-5	20, 22	B-117,B-139

**Construction:** Inner tube of oil resistant PKR® synthetic rubber, a fiber braid, a high tensile steel wire braid reinforcement, and an oil and weather resistant, synthetic rubber impregnated, blue, fiber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude and fuel oils and anti-freeze solutions within a temperature range of -55°F to +302°F (-48°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Section G for the reduced maximum working pressure. Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C); Air within a temperature range of up to +212°F (+100°C).

**Fittings:** Parkrimp 26 Series and Field-Attachable 20 Series and 22 Series (Mandrel) Fittings (See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.)



A Engine, Air Brake, Marine and Gas Hose  
 B Fittings  
 C Parkrimp Crimping Equipment  
 D Hose Assembly Equipment  
 E Adapters  
 F Accessories  
 G Appendices

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SAE J1402 All  
D.O.T. FMVSS 106 All - Air Brake Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Hg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	266-4	3/16	5,1	0,52	13,2	2000	13,8	8000	55,2	3/4	19	0,15	0,22	28	95	26	B-5	20,22
266-5	1/4	6,8	0,58	14,8	1500	10,3	6000	41,4	1	25	0,16	0,24	28	95	26	B-5	20,22	B-117,B-139
266-6	5/16	8,3	0,68	17,2	1500	10,3	6000	41,4	1-1/4	32	0,23	0,34	28	95	26	B-5	20,22	B-117,B-139
266-8	13/32	10,7	0,77	19,5	1250	8,6	5000	34,5	1-3/4	44	0,26	0,39	28	95	26	B-5	20,22	B-117,B-139
266-10	1/2	13,2	0,92	23,4	1250	8,6	5000	34,5	2-1/4	57	0,38	0,56	28	95	26	B-5	20,22	B-117,B-139
266-12	5/8	16,4	1,08	27,4	750	5,2	3000	20,7	2-3/4	70	0,48	0,71	20	68	26	B-5	20,22	B-117,B-139
266-16	7/8	22,8	1,24	31,4	400	2,8	1600	11,0	3-1/2	89	0,48	0,71	15	51	26	B-5	20,22	B-117,B-139
266-20	1-1/8	29,2	1,15	29,2	300	2,1	1200	8,3	4-1/2	114	0,51	0,76	15	51	26	B-5	20,22	B-117,B-139
266-24	1-3/8	35,4	1,75	44,5	250	1,7	1000	6,9	5-1/2	140	0,68	1,01	11	37	26	B-5	20,22	B-117,B-139

**Construction:** Inner tube of oil resistant PKR® synthetic rubber, a fiber braid, a high tensile steel wire braid reinforcement, and an oil and weather resistant, synthetic rubber impregnated, black, fiber cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude, fuel oils and anti-freeze solutions within a temperature range of -55°F to +302°F (-48°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Section G for the reduced maximum working pressure.

**For temperature range of other media, see pages G-18 and G-19.**

**Fittings:** Parkrimp 26 Series and Field-Attachable 20 Series and 22 Series (Mandrel) Fittings (See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.)

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Hydraulic Hose



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Hg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Inches of Hg	kPa	Series	Page	Series	Page
	225-4	3/16	5	0,52	13	3000	20,7	12000	83	3	75	0,15	0,22	28	95	26	B-5	20,22
225-5	1/4	6,3	0,58	15	3000	20,7	12000	83	3-3/8	85	0,18	0,27	28	95	26	B-5	20,22	B-117,B-139
225-6	5/16	8	0,68	17	2250	15,5	9000	62	4	100	0,23	0,34	28	95	26	B-5	20,22	B-117,B-139
225-8	13/32	10	0,77	20	2000	13,8	8000	55	4-5/8	120	0,27	0,40	28	95	26	B-5	20,22	B-117,B-139
225-10	1/2	12,5	0,92	23	1750	12,0	7000	48	5-1/2	140	0,37	0,55	28	95	26	B-5	20,22	B-117,B-139
225-12	5/8	16	1,08	27	1500	10,3	6000	42	6-1/2	165	0,46	0,68	28	95	26	B-5	20,22	B-117,B-139
225-16	7/8	22	1,23	31	800	5,5	3200	22	7-3/8	185	0,46	0,68	20	68	26	B-5	20,22	B-117,B-139
225-20	1-1/8	29	1,50	38	625	4,3	2500	17	9	230	0,51	0,76	20	68	26	B-5	20,22	B-117,B-139
225-24	1-3/8	35	1,75	44	500	3,5	2000	14	10-1/2	265	0,68	1,01	15	51	26	B-5	20,22	B-117,B-139
225-32	1-13/16	46	2,22	56	350	2,4	1400	10	13-1/4	335	0,89	1,32	11	37	26	B-5	20,22	B-117,B-139

**Construction:** Oil resistant synthetic rubber inner tube, a fiber braid, a high tensile steel wire braid reinforcement, and an oil and weather resistant, synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude and fuel oils within a temperature range of -40°F to +212°F (-40°C to +100°C);

**For temperature range of other media, see pages G-18 and G-19.** For air applications above 250 PSI (1,7 MPa), the hose cover should be pin-pricked.

**Fittings:** Parkrimp 26 Series and Field-Attachable 20 Series and 22 Series (Mandrel) Fittings (See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.) **THE BLACK DIE RING MUST BE USED WHEN CRIMPING THE 26 SERIES FITTINGS ONTO 225 HOSE.**



## 221FR Fire-Resistant

Marine Fuel & Engine Hose  
SAE J1527 R3, USCG Type AI, SAE J1942,  
ISO 7840 and ABS\* Approved



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	Series	Page	Series	Page
	221FR-5	1/4	6,3	0.58	15	500	3,5	2000	13,8	1	25	0.19	0,28	24	20	26	B-5	20,22
221FR-6	5/16	8	0.68	17	500	3,5	2000	13,8	1-1/4	32	0.23	0,34	24	20	26	B-5	20,22	B-117,B-139
221FR-8	13/32	10	0.77	20	500	3,5	2000	13,8	1-3/4	44	0.28	0,42	24	20	26	B-5	20,22	B-117,B-139
221FR-10	1/2	12,5	0.92	23	500	3,5	2000	13,8	2-1/4	57	0.39	0,58	20	33,5	26	B-5	20,22	B-117,B-139
221FR-12	5/8	16	1.08	27	500	3,5	2000	13,8	2-3/4	70	0.47	0,70	20	33,5	26	B-5	20,22	B-117,B-139
221FR-16	7/8	22	1.23	31	500	3,5	2000	13,8	3-1/2	89	0.41	0,61	20	33,5	26	B-5	20,22	B-117,B-139

**Construction:** Inner tube of oil resistant Nitrile synthetic rubber, an insulation layer, a high tensile steel wire braid reinforcement and an oil and weather resistant, blue, PKR® synthetic rubber cover.

**Application and Temperature Range:** Gasoline, ethanol blends, diesel fuels, petroleum-base hydraulic fluids and lubricating oils within a temperature range of -4°F to +212°F (-20°C to +100°C); Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C). Air within a temperature range of up to +158°F (+70°C). Meets Class 1 permeation requirements with gasoline and gasoline/ethanol blend and 2-1/2 minute fire test. USCG accepted for commercial and recreational vessel applications.

**Fittings:** Parkrimp 26 Series and Field-Attachable 20 Series and 22 Series (Mandrel) Fittings (See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.)

\* 26 Series Fittings ONLY

## SS23CG

Liquefied Petroleum Gas and  
Compressed Natural Gas Hose  
CAN/CGA - 8.1 - M86 Type III



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
	SS23CG-6	5/16	8,3	0.68	17,2	350	2,4	9000	63	4	100	0.16	0,24	26	B-5	
SS23CG-8	13/32	10,7	0.77	19,5	350	2,4	8000	56	4-5/8	120	0.17	0,25	26	B-5		
SS23CG-10	1/2	13,2	0.92	23,4	350	2,4	7000	49	5-1/2	140	0.28	0,42	26	B-5		
SS23CG-12*	5/8	15,9	1.08	27,4	350	2,4	6000	41,4	6-1/2	165	0.30	0,45	26	B-5		

**Construction:** L.P.G./C.N.G.-resistant Nylon tube; stainless steel wire braid reinforcement; oil and weather resistant, pin-pricked synthetic rubber cover

**Application and Temperature Range:** Low pressure service use with liquefied petroleum gas (L.P.G.) and compressed natural gas (C.N.G.) within a temperature range of -40° F to +250° F (-40° C to +121° C).

**Fittings:** Parkrimp 26 Series. See Section C for Parkrimp fitting assembly instructions.

**Note:** FACTORY MADE ASSEMBLIES ONLY

\* Minimum quantity run required. Contact the Hose Products Division for more information.

Engine, Air Brake, Marine and Gas Hose

A

Fittings

B

Parkrimp Crimping Equipment

C

Hose Assembly Equipment

D

Adapters

E

Accessories

F

Appendices

G

## SS25UL

Liquefied Petroleum Gas Hose  
UL Listed for LPG Service  
UL Standard 21



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	Series	Page	Series	Page
SS25UL-4	3/16	5,1	0.52	13,2	350	2,4	1750	12,1	3/4	19	0.11	0,16			20, 22	B-117, B-139
SS25UL-5	1/4	6,8	0.58	14,8	350	2,4	1750	12,1	1	25	0.13	0,19			20, 22	B-117, B-139
SS25UL-6	5/16	8,3	0.68	17,2	350	2,4	1750	12,1	1-1/4	32	0.18	0,27			20, 22	B-117, B-139
SS25UL-8	13/32	10,7	0.77	19,5	350	2,4	1750	12,1	1-3/4	44	0.21	0,31			20, 22	B-117, B-139
SS25UL-10	1/2	13,2	0.92	23,4	350	2,4	1750	12,1	2-1/4	57	0.29	0,43			20, 22	B-117, B-139
SS25UL-12	5/8	16,4	1.08	27,4	350	2,4	1750	12,1	2-3/4	70	0.37	0,55			20, 22	B-117, B-139

**Construction:** Inner tube of oil and L.P.G. resistant Nitrile synthetic rubber, a fiber braid and a corrosion resistant steel wire braid reinforcement and an oil, mildew and weather resistant, synthetic rubber impregnated, black fiber cover.

**Application and Temperature Range:** Low pressure service hose for use with: Liquefied petroleum gas (LPG) within a temperature range of -40°F to +250°F (-40°C to +121°C).

**Fittings:** Field-Attachable 20 Series and 22 Series. See Section B for assembly instructions.

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Air Conditioning and Refrigerant Hose  
SAE J2064 Type C, Class 1



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	Series	Page	Series	Page
	285-4	3/16	5,1	0.49	11,7	500	3,4	2500	13,8	1	25	0.09	0,14	28	95	26	B-5	21,23
285-6	5/16	8,1	0.62	15,7	500	3,4	2500	13,8	1-1/2	38	0.12	0,18	28	95	26	B-5	21,23	B-129,B-143
285-8	13/32	10,7	0.74	18,8	500	3,4	2500	13,8	2	51	0.17	0,25	28	95	26	B-5	21,23	B-129,B-143
285-10	1/2	13	0.83	21,1	500	3,4	2500	13,8	2-1/2	64	0.18	0,27	28	95	26	B-5	21,23	B-129,B-143
285-12	5/8	16,1	0.96	24,4	500	3,4	2500	13,8	3	76	0.23	0,34	28	95	26	B-5	21,23	B-129,B-143

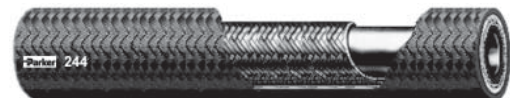
**Construction:** The hose has a nylon barrier between two elastomeric layers, a fabric braid reinforcement and a heat, moisture and ozone resistant elastomer cover.

**Application and Temperature Range:** Refrigerant 12, 134a, and 22 within a temperature range of -22°F to +257°F (-30°C to +125°C).

**Fittings:** Parkrimp 26 Series and Field-Attachable 21 and 23 Series (Mandrel) Fittings. See Section C for Parkrimp or Section B for Field-Attachable assembly instructions.

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Air Conditioning and Refrigerant Hose  
SAE J2064 Type B, Class 1



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	Series	Page	Series	Page
	244-16	7/8	22	1.23	31	500	2,4	2500	12	7-1/2	190	0.76	0,51	28	95	26	B-5	
244-20	1-1/8	29	1.50	38	500	2,4	2500	12	9	230	0.83	0,56	28	95	26	B-5		
244-24	1-3/8	35	1.75	44	500	2,4	2500	12	10-1/2	270	0.83	0,62	28	95	26	B-5		

**Construction:** Inner tube of Butyl synthetic rubber, a single wire braid reinforcement and an oil, mildew and weather resistant, synthetic rubber impregnated, black, fiber cover.

**Application and Temperature Range:** Refrigerant 134a within a temperature range of -22°F to +257°F (-30°C to +125°C).

**Fittings:** Parkrimp 26 Series. See Section C for assembly instructions.

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Refrigerant and Hydraulic Hose  
SAE J51 Type D



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Minimum Bend Radius		Weight		UHg		Parkrimp Fitting		Field Attachable Fitting	
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	Series	Page	Series	Page
	235-16	7/8	22	1.23	31	350	2,4	1750	12	7-3/8	185	0.31	0,46	15	50	26	B-5	20,22

**Construction:** Inner tube of extruded Nylon thermoplastic, two fiber braid reinforcement and an oil and weather resistant, black, pin-pricked, Neoprene or PKR synthetic rubber, MSHA accepted, cover.

**Application and Temperature Range:** Refrigerant 12, 13, and 22; and petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C); Phosphate ester based hydraulic fluids within a temperature range of -40°F to +200°F (-40°C to +93°C); Water, water/oil emulsion and water/glycol hydraulic fluids up to +185°F (+85°C); Air up to +158°F (+70°C).

**Fittings:** Parkrimp 26 Series. See Section C for assembly instructions.

Hose  
Specialty  
Low Pressure

Fittings

Parkrimp  
Crimping  
Equipment

Hose  
Assembly  
Equipment

Adapters

Accessories

Appendices



# Fittings





















Parkrimp (Crimp) Series

Field Attachable Series

Visit [www.parkerhose.com](http://www.parkerhose.com) for 3D Cad Drawings



Hose	A
Fittings	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

	26 Series B-5	43 Series B-23	70 Series B-53	71 Series B-59	73 Series B-75
					
78 Series B-83	79 Series B-93	81 Series B-97	HY Series B-101		20 Series B-117
					
21 Series B-129	22 Series B-139	23 Series B-143	30 Series B-147	42 Series B-161	82 Series B-175
					
88 Series B-193	TB Series B-199				
					

For more, non-standard, fitting sizes see [www.parkerhose.com](http://www.parkerhose.com)>product range>products>fittings



**How to Order Hose**

When ordering hose, specify complete information as illustrated below.

**Examples: 50 Ft. 201-8 (bulk hose) and  
 1 piece of 201-8-120 inches (exact cut lengths)**

**Hose Description**

Quantity
50 Feet

Specify in feet, total length of hose required when ordering bulk hose.  
 -OR-  
 Specify length in inches with number of pieces if cut lengths are required.

Hose Type
201

Size of Hose Connection
-8

-3=3/16"	-12=5/8"
-4=1/4"	-16=7/8"
-5=5/16"	-20=1-1/8"
-6=5/16"	-24=1-3/8"
-8=13/32"	-32=1-13/16"
-10=1/2"	-40=2-3/8"
	-48=3"

Size of SAE 100R5 Type hose is nominal.

Cut Length in Inches
Always specify in inches.

Use only if exact cut lengths are required.

**How to Order Field Attachable Fittings**

Fittings are ordered by part number as listed in this catalog.

**Example: 20630-12-12C**

**Fittings Part Number**

Type	Configuration	Series
2	06	30

2 = Field Attachable Fitting  
 3 = Push-Lok Fitting

Fitting end configuration code listing is in Section G, pages G-25 thru G-32.

A "06" end is a Female JIC 37°-Swivel-Straight.

Fitting Connection Size
-12

- 20 for 20 Series fitting
- 21 for 21 Series fitting
- 20 for 22 Series fitting
- 23 for 23 Series fitting
- 30 for 30 Series fitting
- 42 for 42 Series fitting
- 82 for 82 Series fitting

Size of Hose Connection
-12

-3=3/16"	-12=3/4"
-4=1/4"	-16=1"
-5=5/16"	-20=1-1/4"
-6=3/8"	-24=1-1/2"
-8=1/2"	-32=2"
-10=5/8"	-40=2-1/2"
	-48=3"

Size of SAE 100R5 Type hose is nominal.

Fitting Material
C

- No suffix = Steel
- B = Brass
- C = 316 Stainless Steel
- BA = Brass Nipple w/ Steel Nut & Socket
- BS = Brass Nipple w/ Brass Nut & Steel Socket

Defined by type of end connection, i.e. thread, flange, tube, banjo, etc. See end configuration code table in Section G.

A Hose  
 B Fittings  
 C Parkrimp Crimping Equipment  
 D Hose Assembly Equipment  
 E Adapters  
 F Accessories  
 G Appendices



**How to Order Components of Field Attachable Fittings**

Sockets and nipples can be ordered separately and will be shipped separately when ordered as follows:

**Example: 20630-12-12C**  
**Socket = 20030-12C**  
**Nipple = 0630-12-12C**

**Socket Part Number is 20030-12C**

Type	Configuration	Series
2	00	30

"2" designates Field Attachable type fitting.

"00" designates socket only

- 20 for 20 Series fitting
- 21 for 21 Series fitting
- 22 for 22 Series fitting
- 23 for 23 Series fitting
- 30 for 30 Series fitting
- 42 for 42 Series fitting

Size of Hose Connection		Fitting Material
-12		C
-3=3/16"	-12=3/4"	No suffix = Steel
-4=1/4"	-16=1"	B = Brass
-5=5/16"	-20=1-1/4"	C = 316 Stainless Steel
-6=3/8"	-24=1-1/2"	BA = Brass Nipple w/ Steel Nut & Socket
-8=1/2"	-32=2"	BS = Brass Nipple w/ Brass Nut & Steel Socket
-10=5/8"	-40=2-1/2"	
Size of SAE 100R5 Type hose is nominal.		

**Nipple Part Number is 0630-12-12C**

Configuration	Series	Fitting Connection Size
06	30	-12


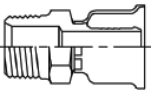

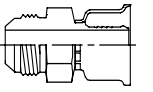
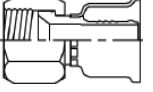
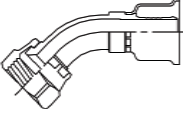
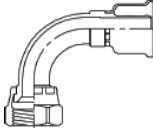
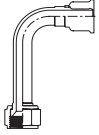

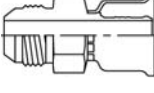
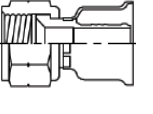
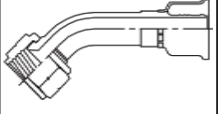
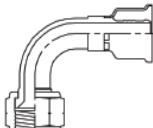


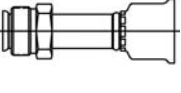
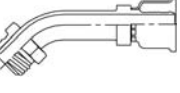
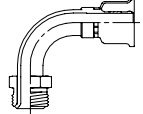

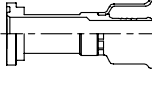
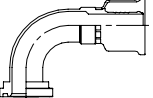

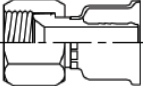

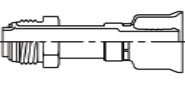
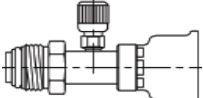
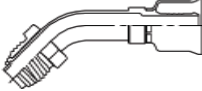
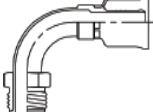
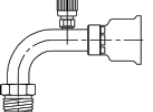
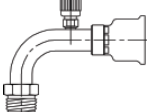
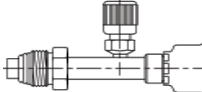
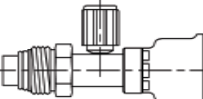
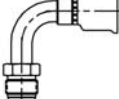
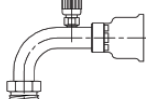
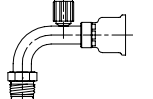
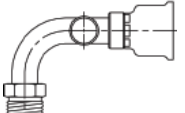
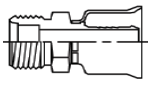
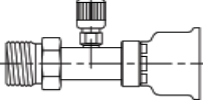
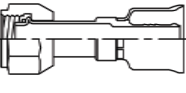
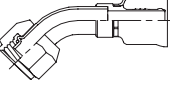
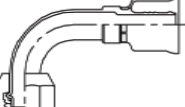
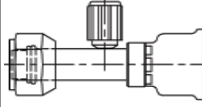
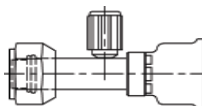
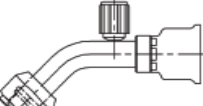
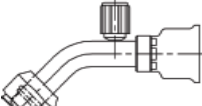
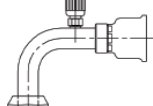
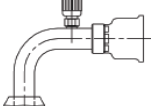
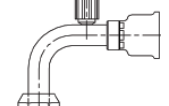
Fitting end configuration code listing is in Section G, pages G-25 thru G-32.

- 20 for 20 Series fitting
- 21 for 21 Series fitting
- 20 for 22 Series fitting
- 23 for 23 Series fitting
- 30 for 30 Series fitting
- 42 for 42 Series fitting
- 88 for 88 Series fitting
- TB for TB Series fitting

Defined by type of end connection, i.e. thread, flange, tube, banjo, etc. See part number table.

Size of Hose Connection		Fitting Material
-12		C
-3=3/16"	-12=3/4"	No suffix = Steel
-4=1/4"	-16=1"	B = Brass
-5=5/16"	-20=1-1/4"	C = 316 Stainless Steel
-6=3/8"	-24=1-1/2"	BA = Brass Nipple w/ Steel Nut & Socket
-8=1/2"	-32=2"	BS = Brass Nipple w/ Brass Nut & Steel Socket
-10=5/8"	-40=2-1/2"	
Size of SAE 100R5 Type hose is nominal.		

Hose  
**A**  
 Fittings  
**B**  
 Parkrimp Crimping Equipment  
**C**  
 Hose Assembly Equipment  
**D**  
 Adapters  
**E**  
 Accessories  
**F**  
 Appendices  
**G**

 <b>NPTF Pipe</b>	10126 B-7  <i>Male - Rigid - Straight</i>	 <b>JIC 37°</b>	10326 B-7  <i>Male - Rigid - Straight</i>	10626 B-8  <i>Female - Swivel Straight</i>	13726 B-8  <i>Female - Swivel 45° Elbow - Short</i>
13926 B-8  <i>Female - Swivel 90° Elbow - Short</i>	14126 B-9  <i>Female - Swivel 90° Elbow - Long</i>	 <b>SAE 45°</b>	10426 B-9  <i>Male - Rigid - Straight</i>	10826 B-9  <i>Female - Swivel Straight</i>	17726 B-9  <i>Female - Swivel 45° Elbow</i>
17926 B-10  <i>Female - Swivel 90° Elbow</i>	18126 B-10  <i>Female - Swivel 90° Elbow - Long</i>	 <b>Inverted Flare</b>	12826 B-10  <i>Male - Swivel Straight</i>	16726 B-10  <i>Male - Swivel 45° Elbow</i>	16926 B-11  <i>Male - Swivel 90° Elbow</i>
 <b>Code 61 Flange</b>	11526 B-11  <i>Straight</i>	11926 B-11  <i>90° Elbow</i>	 <b>JIC 37°/ SAE 45° Dual Flare</b>	16826 B-12  <i>Female - Swivel Straight</i>	 <b>Tube-O</b>
1S526 B-12  <i>Male - Swivel Straight - Short Pilot</i>	1S526-PR B-12  <i>Male - Swivel Straight - Short Pilot</i>	15R26 B-13  <i>Male - Swivel 45° Elbow - Short Pilot</i>	15K26 B-12  <i>Male - Swivel 90° Elbow - Short Pilot</i>	15K26-PB B-13  <i>Male - Swivel 90° Elbow - Short Pilot</i>	15K26-PR B-14  <i>Male - Swivel 90° Elbow - Short Pilot</i>
14526-PR B-13  <i>Male - Swivel Straight - Long Pilot</i>	14526-PT B-14  <i>Male - Swivel Straight - Long Pilot</i>	15M26 B-14  <i>Male - Swivel 90° Elbow - Long Pilot</i>	15M26-PR B-15  <i>Male - Swivel 90° Elbow - Long Pilot</i>	15M26-PT B-15  <i>Male - Swivel 90° Elbow - Long Pilot</i>	15M26-PT90 B-15  <i>Male - Swivel 90° Elbow - Long Pilot</i>
15G26 B-16  <i>Male - Rigid - Straight Internal Long Pilot</i>	15G26-PR B-16  <i>Male - Rigid - Straight Internal Long Pilot</i>	15S26 B-16  <i>Female - Swivel Straight - Short Pilot</i>	15H26 B-16  <i>Female - Swivel 45° Elbow - Short Pilot</i>	15T26 B-17  <i>Female - Swivel 90° Elbow - Short Pilot</i>	15926-PB B-17  <i>Female - Swivel Straight - Long Pilot</i>
15926-PT B-17  <i>Female - Swivel Straight - Long Pilot</i>	15N26-PB B-17  <i>Female - Swivel 45° Elbow - Long Pilot</i>	15N26-PT B-18  <i>Female - Swivel 45° Elbow - Long Pilot</i>	15L26-PB B-18  <i>Female - Swivel 90° Elbow - Long Pilot</i>	15L26-PR B-18  <i>Female - Swivel 90° Elbow - Long Pilot</i>	15L26-PT B-19  <i>Female - Swivel 90° Elbow - Long Pilot</i>

Hose  
**A**

Fittings  
26 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

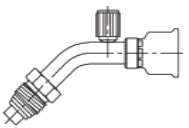

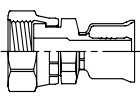
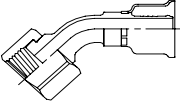
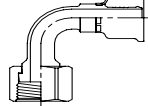
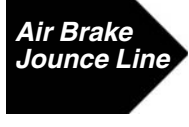
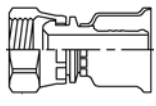

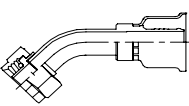
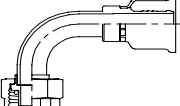
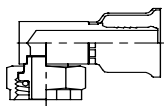
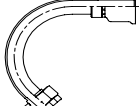
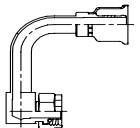

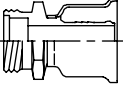
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

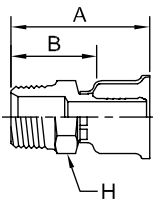


Hose <b>A</b>
Fittings 26 Series <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
Hose Assembly Equipment <b>D</b>
Adapters <b>E</b>
Accessories <b>F</b>
Appendices <b>G</b>

<p>15P26-PT B-19</p>  <p>Male - Swivel 45° Elbow - Long Pilot</p>	 <p><b>Seal-Lok®</b></p>	<p>1JC26 B-19</p>  <p>Female - Swivel Straight - Short</p>	<p>1J726 B-20</p>  <p>Female - Swivel 45° Elbow</p>	<p>1J926 B-20</p>  <p>Female - Swivel 90° Elbow - Short</p>	 <p><b>Air Brake Jounce Line</b></p>	
<p>17B26 B-20</p>  <p>Female - Swivel Straight</p>	 <p><b>Compressor</b></p>	<p>15V26 B-20</p>  <p>Female - Swivel 45° Elbow</p>	<p>15W26 B-21</p>  <p>Female - Swivel 90° Elbow</p>	<p>15Z26 B-21</p>  <p>Female - Swivel 90° Elbow - Block Type</p>	<p>1RV26 B-21</p>  <p>Female - Swivel 135° Elbow</p>	
<p>1RZ26 B-21</p>  <p>Female - Swivel 180° Elbow</p>	 <p><b>Refrigerant Tube Mender</b></p>	<p>1T126 B-22</p>  <p>Male - Straight (w/o Nut &amp; Ferrule)</p>				

10126 Male NPTF Pipe - Rigid  
Straight

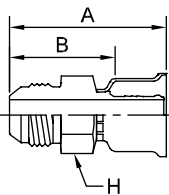
BS - Brass Nut, Brass Nipple, Steel Shell  
VS - Vibra Seal thread sealant  
B - Brass



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
	inch		inch		inch	mm	inch	inch	inch	mm
10126-2-4	1/8x27	-2	3/16	-4	1.65	42	7/16	0.78	20	
10126-2-4B	1/8x27	-2	3/16	-4	1.65	42	7/16	0.78	20	
10126-2-4BS	1/8x27	-2	3/16	-4	1.65	42	7/16	0.78	20	
10126-2-4-VS	1/8x27	-2	3/16	-4	1.65	42	7/16	0.78	20	
10126-4-4	1/4x18	-4	3/16	-4	1.88	48	9/16	1.01	26	
10126-4-4B	1/4x18	-4	3/16	-4	1.88	48	9/16	1.01	26	
10126-4-5	1/4x18	-4	1/4	-5	1.88	48	9/16	1.01	26	
10126-4-6	1/4x18	-4	5/16	-6	1.88	48	3/4	1.02	26	
10126-4-6B	1/4x18	-4	5/16	-6	1.88	48	3/4	1.02	26	
10126-6-6	3/8x18	-6	5/16	-6	1.89	48	11/16	1.03	26	
10126-6-6B	3/8x18	-6	5/16	-6	1.89	48	11/16	1.03	26	
10126-6-8	3/8x18	-6	13/32	-8	1.89	48	11/16	1.03	26	
10126-6-8B	3/8x18	-6	13/32	-8	1.89	48	11/16	1.03	26	
10126-8-8	1/2x14	-8	13/32	-8	2.14	54	7/8	1.28	33	
10126-8-8B	1/2x14	-8	13/32	-8	2.14	54	7/8	1.28	33	
10126-8-10	1/2x14	-8	1/2	-10	2.25	57	7/8	1.30	33	
10126-8-10B	1/2x14	-8	1/2	-10	2.25	57	7/8	1.30	33	
10126-8-10-VS	1/2x14	-8	1/2	-10	2.25	57	7/8	1.30	33	
10126-12-12	3/4x14	-12	5/8	-12	2.32	59	1-1/16	1.37	35	
10126-12-12B	3/4x14	-12	5/8	-12	2.32	59	1-1/16	1.37	35	
10126-16-16	1x11-1/2	-16	7/8	-16	2.61	66	1-3/8	1.57	40	
10126-20-20	1-1/4x11-1/2	-20	1-1/8	-20	2.83	72	1-3/4	1.77	45	
10126-24-24	1-1/2x11-1/2	-24	1-3/8	-24	3.01	76	2	1.93	49	

10326 Male JIC 37° - Rigid - Straight

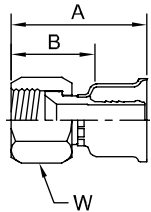
B - Brass



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
	inch		inch		inch	mm	inch	inch	inch	mm
10326-4-4	1/4	7/16x20	-4	3/16	-4	1.97	50	1/2	1.15	29
10326-4-4B	1/4	7/16x20	-4	3/16	-4	1.97	50	1/2	1.15	29
10326-6-6	3/8	9/16x18	-6	5/16	-6	2.13	54	3/4	1.26	32
10326-6-6B	3/8	9/16x18	-6	5/16	-6	2.13	54	3/4	1.26	32
10326-8-8	1/2	3/4x16	-8	13/32	-8	1.94	49	13/16	1.08	27
10326-8-8B	1/2	3/4x16	-8	13/32	-8	1.94	49	13/16	1.08	27
10326-10-10	5/8	7/8x14	-10	1/2	-10	2.50	64	15/16	1.54	39
10326-10-10B	5/8	7/8x14	-10	1/2	-10	2.50	64	15/16	1.54	39
10326-16-16	1	1-5/16x12	-16	7/8	-16	2.79	71	1-3/8	1.75	44
10326-20-16	1-1/4	1-5/8x12	-20	7/8	-16	2.85	72	1-11/16	1.81	46
10326-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.14	80	1-11/16	2.08	53

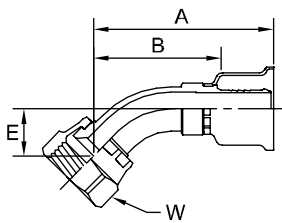
10626 Female JIC 37° - Swivel  
Straight

BS - Brass Nut, Brass Nipple, Steel Shell  
B - Brass



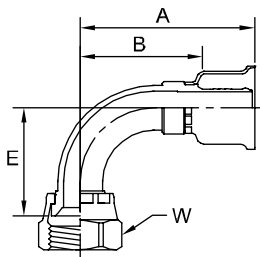
# Part Number	Thread			Hose		A		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	inch	inch	mm
10626-6-6	3/8	9/16x18	-6	5/16	-6	1.79	45	11/16	0.92	23	
10626-6-6B	3/8	9/16x18	-6	5/16	-6	1.79	45	11/16	0.92	23	
10626-6-6BS	3/8	9/16x18	-6	5/16	-6	1.79	45	11/16	0.92	23	
10626-6-8	3/8	9/16x18	-6	13/32	-8	2.05	52	11/16	1.19	30	
10626-6-8B	3/8	9/16x18	-6	13/32	-8	2.05	52	11/16	1.19	30	
10626-12-12	3/4	1-1/16x12	-12	5/8	-12	2.29	58	1-1/4	1.35	34	
10626-12-12BS	3/4	1-1/16x12	-12	5/8	-12	2.29	58	1-1/4	1.35	34	
10626-16-16	1	1-5/16x12	-16	7/8	-16	2.53	64	1-1/2	1.49	38	
10626-16-16BS	1	1-5/16x12	-16	7/8	-16	2.53	64	1-1/2	1.49	38	
10626-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	2.56	65	2	1.50	38	
10626-24-24	1-1/2	1-7/8x12	-24	1-3/8	-24	2.77	70	2-1/4	1.69	43	
10626-32-32	2	2-1/2x12	-32	1-13/16	-32	3.30	84	2-7/8	2.04	52	

13726 Female JIC 37° - Swivel  
45° Elbow - Short Drop



# Part Number	Thread			Hose		A		E		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm
13726-4-4	1/4	7/16x20	-4	3/16	-4	2.01	51	0.39	10	9/16	1.14	29	
13726-6-6	3/8	9/16x18	-6	5/16	-6	2.72	69	0.43	11	11/16	1.86	47	
13726-8-8	1/2	3/4x16	-8	13/32	-8	2.82	72	0.55	14	7/8	1.96	50	
13726-10-10	5/8	7/8x14	-10	1/2	-10	2.96	75	0.63	16	1	2.01	51	
13726-10-12	5/8	7/8x14	-10	5/8	-12	3.28	83	0.63	16	1	2.34	59	
13726-12-12	3/4	1-1/16x12	-12	5/8	-12	3.44	87	0.83	21	1-1/4	2.50	63	
13726-16-16	1	1-5/16x12	-16	7/8	-16	3.34	85	0.90	23	1-1/2	2.30	58	
13726-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.74	95	1.18	30	2	2.68	68	
13726-24-24	1-1/2	1-7/8x12	-24	1-3/8	-24	3.92	100	1.16	29	2-1/4	2.84	72	

13926 Female JIC 37° - Swivel  
90° Elbow - Short Drop



# Part Number	Thread			Hose		A		E		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm
13926-4-4	1/4	7/16x20	-4	3/16	-4	1.82	46	0.83	21	9/16	0.95	24	
13926-6-6	3/8	9/16x18	-6	5/16	-6	2.15	55	0.91	23	11/16	1.29	33	
13926-8-8	1/2	3/4x16	-8	13/32	-8	2.22	56	1.09	28	7/8	1.36	35	
13926-10-10	5/8	7/8x14	-10	1/2	-10	2.23	57	1.26	32	1	1.28	33	
13926-10-12	5/8	7/8x14	-10	5/8	-12	2.52	64	1.23	31	1	1.58	40	
13926-12-12	3/4	1-1/16x12	-12	5/8	-12	2.28	58	1.82	46	1-1/4	1.34	34	
13926-16-16	1	1-5/16x12	-16	7/8	-16	3.30	84	2.14	54	1-1/2	2.26	57	
13926-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.60	91	2.57	65	2	2.54	65	
13926-24-24	1-1/2	1-7/8x12	-24	1-3/8	-24	3.92	100	2.82	72	2-1/4	2.84	72	

Hose  
A

Fittings  
26 Series  
B

Parkrimp  
Crimping  
Equipment  
C

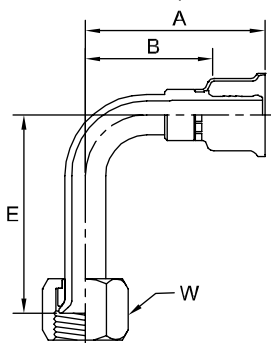
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

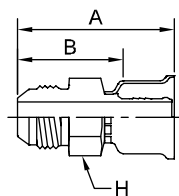
Appendices  
G

14126 Female JIC 37° - Swivel  
90° Elbow - Long Drop



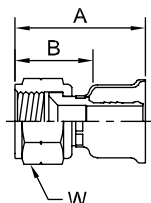
#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	Part Number											
14126-4-4	1/4	7/16x20	-4	1/4	-4	2.05	52	1.81	46	9/16	1.18	30
14126-6-6	3/8	9/16x18	-6	5/16	-6	1.74	44	2.13	54	11/16	0.88	22
14126-8-8	1/2	3/4x16	-8	13/32	-8	2.35	60	2.43	62	7/8	1.49	38
14126-10-10	5/8	7/8x14	-10	1/2	-10	2.11	54	2.76	70	1	1.16	29
14126-12-12	3/4	1-1/16x12	-12	5/8	-12	2.55	65	3.74	95	1-1/4	1.61	41
14126-16-16	1	1-5/16x12	-16	7/8	-16	3.17	81	4.33	110	1-1/2	2.13	54

10426 Male SAE 45° - Rigid  
Straight



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
10426-4-4	1/4	7/16x20	-4	3/16	-4	1.97	50	1/2	1.10	28	

10826 Female SAE 45° - Swivel  
Straight

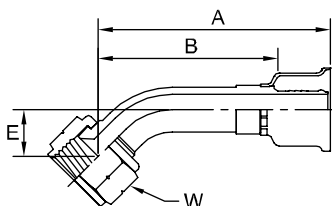


BA - Steel Nut, Brass Nipple, Steel Shell  
B - Brass  
Note: Notch in nut for SAE 45° flare.

#	Thread			Hose		A		W		B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
10826-6-6	3/8	5/8x18	-6	5/16	-6	1.84	47	3/4	0.98	25	
10826-6-6B	3/8	5/8x18	-6	5/16	-6	1.84	47	3/4	0.98	25	
10826-6-6BA	3/8	5/8x18	-6	5/16	-6	1.84	47	3/4	0.98	25	
10826-10-10	5/8	7/8x18	-10	1/2	-10	2.13	54	1	1.18	30	
10826-10-12	5/8	7/8x18	-10	5/8	-12	2.60	66	1	1.66	42	
10826-12-12	3/4	1-1/16x14	-12	5/8	-12	2.19	56	1-1/4	1.25	32	

17726 Female SAE 45° - Swivel  
45° Elbow

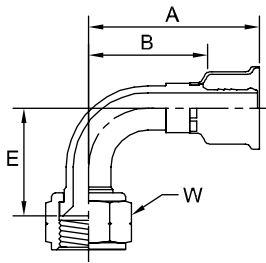
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	Part Number											
17726-4-4	1/4	7/16x20	-4	3/16	-4	2.01	51	0.39	10	9/16	1.14	29
17726-6-6	3/8	5/8x18	-6	5/16	-6	2.72	69	0.43	11	11/16	1.86	47
17726-8-8	1/2	3/4x16	-8	13/32	-8	2.82	72	0.59	14	7/8	1.96	50
17726-10-10	5/8	7/8x14	-10	1/2	-10	2.96	75	0.63	16	1	2.01	51
17726-10-12	5/8	7/8x14	-10	5/8	-12	3.22	82	0.63	16	1	2.28	58
17726-12-12	3/4	1-1/16x14	-12	5/8	-12	3.43	87	0.83	21	1-1/4	2.49	63

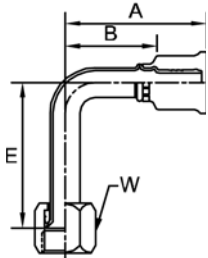
**17926 Female SAE 45° - Swivel  
90° Elbow**

Note: Notch in nut for SAE 45° flare.



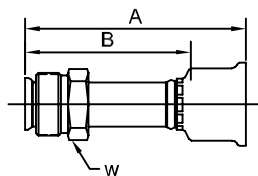
# Part Number	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	17926-4-4	1/4	7/16x20	-4	3/16	-4	1.82	46	0.83	21	9/16	0.95
17926-6-6	3/8	5/8x18	-6	5/16	-6	2.15	55	0.91	23	3/4	1.29	33
17926-8-8	1/2	3/4x16	-8	13/32	-8	2.31	58.7	1.00	25.4	7/8	1.45	37
17926-10-10	5/8	7/8x14	-10	1/2	-10	2.23	57	1.26	32	1	1.28	33
17926-10-12	5/8	7/8x14	-10	5/8	-12	2.52	64	1.23	31	1	1.58	40
17926-12-12	3/4	1-1/16x14	-12	5/8	-12	2.28	58	1.82	46	1-1/4	1.34	34

**18126 Female SAE 45° - Swivel  
90° Elbow - Long Drop**



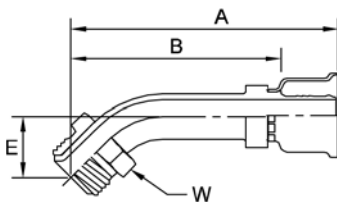
# Part Number	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	18126-8-8	1/2	3/4x16	-8	13/32	-8	2.24	57	2.52	64	7/8	1.38

**12826 Male Inverted SAE 45° - Swivel  
Straight**



# Part Number	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	12826-4-4	1/4	7/16x24	-4	3/16	-4	2.43	62	7/16	1.56	40	
12826-5-5	5/16	1/2x20	-5	1/4	-5	2.56	65	1/2	1.69	43		
12826-6-6	3/8	5/8x18	-6	5/16	-6	2.87	73	5/8	2.01	51		
12826-8-8	1/2	3/4x18	-8	13/32	-8	3.00	76	3/4	2.14	54		
12826-10-10	5/8	7/8x18	-10	1/2	-10	3.17	81	7/8	2.22	56		

**16726 Male Inverted SAE 45° - Swivel  
45° Elbow**



# Part Number	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	16726-4-4	1/4	7/16x24	3/16	-4	2.2	56	0.63	16	7/16	1.33	34
16726-5-5	5/16	1/2x20	1/4	-5	2.3	58	0.70	18	1/2	1.43	36	
16726-6-6	3/8	5/8x18	5/16	-6	2.51	64	0.94	24	5/8	1.65	42	
16726-8-8	1/2	3/4x18	13/32	-8	2.6	66	1.09	28	3/4	1.74	44	

Hose  
A

Fittings  
26 Series  
B

Parkrimp  
Crimping  
Equipment  
C

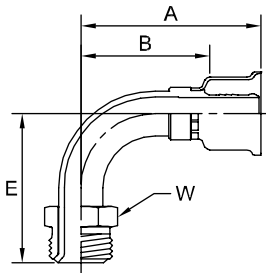
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

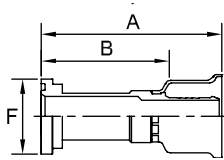
Appendices  
G

16926 Male Inverted SAE 45° - Swivel  
90° Elbow



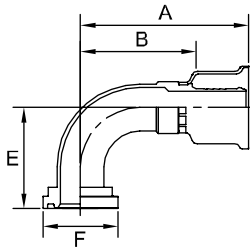
#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	Part Number											
16926-4-4	1/4	7/16x24	-4	3/16	-4	2.27	58	1.56	40	7/16	1.40	36
16926-5-5	5/16	1/2x20	-5	1/4	-5	2.39	61	1.65	42	1/2	1.52	39
16926-6-6	3/8	5/8x18	-6	5/16	-6	1.67	42	1.69	43	5/8	0.81	21
16926-8-8	1/2	3/4x18	-8	13/32	-8	2.25	57	1.88	48	3/4	1.39	35
16926-10-10	5/8	7/8x18	-10	1/2	-10	2.70	69	2.17	55	7/8	1.75	44

11526 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L



#	Flange			Hose		A		F		B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
11526-40-40	2-1/2		-40	2-3/8	-40	4.50	114	3-5/16		3.08	78

11926 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)



#	Flange			Hose		A		E		F		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
11926-40-40	2-1/2		-40	2-3/8	-40	4.50	114	3.68	93	3-5/16	4.09	104	

Hose  
A

Fittings  
26 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

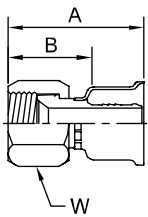
Adapters  
E

Accessories  
F

Appendices  
G

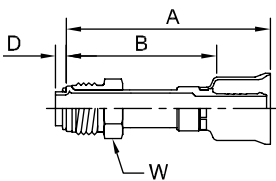
**16826 Female JIC 37° / SAE 45°  
Dual Flare - Swivel - Straight**

BA - Steel Nut, Brass Nipple, Steel Shell  
BS - Brass Nut, Brass Nipple, Steel Shell  
B - Brass



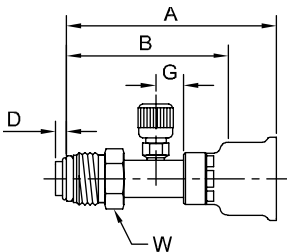
#	Thread			Hose		A		W		B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number	inch	mm	inch	mm	inch	mm	inch	inch	inch	mm
16826-4-4	1/4	7/16x20	-4	3/16	-4	1.67	42	9/16	0.80	20	
16826-4-4B	1/4	7/16x20	-4	3/16	-4	1.67	42	9/16	0.80	20	
16826-4-4BA	1/4	7/16x20	-4	3/16	-4	1.67	42	9/16	0.80	20	
16826-4-4BS	1/4	7/16x20	-4	3/16	-4	1.67	42	9/16	0.80	20	
16826-4-5	1/4	7/16x20	-4	1/4	-5	1.90	48	9/16	1.03	26	
16826-5-5	5/16	1/2x20	-5	1/4	-5	1.77	45	5/8	0.90	23	
16826-5-5BA	5/16	1/2x20	-5	1/4	-5	1.77	45	5/8	0.90	23	
16826-8-6	1/2	3/4x16	-8	5/16	-6	2.19	56	7/8	1.33	34	
16826-8-8	1/2	3/4x16	-8	13/32	-8	1.91	49	7/8	1.05	27	
16826-8-8B	1/2	3/4x16	-8	13/32	-8	1.91	49	7/8	1.05	27	
16826-8-8BA	1/2	3/4x16	-8	13/32	-8	1.91	49	7/8	1.05	27	
16826-8-10	1/2	3/4x16	-8	1/2	-10	2.36	60	7/8	1.41	36	
16826-8-10B	1/2	3/4x16	-8	1/2	-10	2.36	60	7/8	1.41	36	
16826-10-10	5/8	7/8x14	-10	1/2	-10	2.17	55	1	1.23	31	
16826-10-10B	5/8	7/8x14	-10	1/2	-10	2.17	55	1	1.23	31	
16826-10-10BA	5/8	7/8x14	-10	1/2	-10	2.17	55	1	1.23	31	
16826-10-12	5/8	7/8x14	-10	5/8	-12	2.40	61	1	1.46	37	

**1S526 Male Tube-O - Swivel  
Straight - Short Pilot**



#	Thread			Hose		A		D		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	inch	mm
1S526-6-6	3/8	5/8x18	-6	5/16	-6	2.54	65	0.18	5	5/8	1.68	43	
1S526-7-6	11/16	11/16x16	-7	5/16	-6	2.57	65	0.18	5	5/8	1.71	43	
1S526-8-8	1/2	3/4x18	-8	13/32	-8	2.68	68	0.18	5	3/4	1.82	46	
1S526-10-10	5/8	7/8x18	-10	1/2	-10	3.46	88	0.18	5	7/8	2.51	64	
1S526-10-12	5/8	7/8x18	-10	5/8	-12	3.63	92	0.18	5	7/8	2.69	68	
1S526-12-12	3/4	1-1/16x16	-12	5/8	-12	4.00	102	0.18	5	1-1/16	3.06	78	

**1S526-PR Male Tube-O - Swivel  
Straight - Short Pilot with Charge  
Port for R12**



#	Thread			Hose		A		D		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	inch	inch	mm
	Part Number	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	inch	mm
1S526-10-10-PR	5/8	7/8x18	-10	1/2	-10	3.52	89	0.18	5	0.47	12	7/8	2.57	65	
1S526-10-12-PR	5/8	7/8x18	-10	5/8	-12	3.68	93	0.18	5	0.47	12	7/8	2.74	70	

Hose  
**A**

Fittings  
26 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

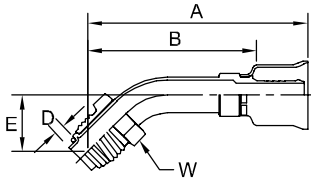
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

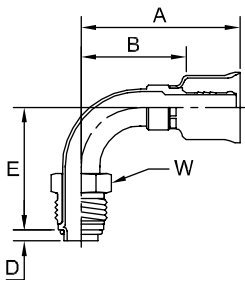
Appendices  
**G**

**15R26 Male Tube-O - Swivel  
45° Elbow - Short Pilot**



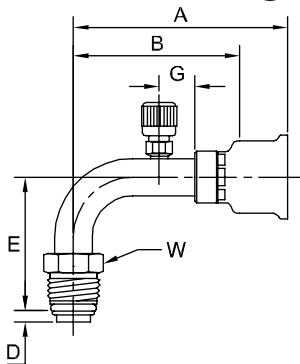
#	Thread			Hose		A		D		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	Part Number														
15R26-6-6	3/8	5/8x18	-6	5/16	-6	2.46	62	0.18	5	1.00	25	5/8	1.60	41	
15R26-7-6	7/16	11/16x16	-7	5/16	-6	2.98	76	0.18	5	1.00	25	11/16	2.12	54	
15R26-8-8	1/2	3/4x18	-8	13/32	-8	2.53	64	0.18	5	1.05	27	3/4	1.67	42	
15R26-10-10	5/8	7/8x18	-10	1/2	-10	2.99	76	0.18	5	1.25	32	7/8	2.04	52	
15R26-10-12	5/8	7/8x18	-10	5/8	-12	3.16	80	0.18	5	1.25	32	7/8	2.22	56	

**15K26 Male Tube-O - Swivel  
90° Elbow - Short Pilot**



#	Thread			Hose		A		D		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	Part Number														
15K26-6-6	3/8	5/8X18	-6	5/16	-6	1.78	45	0.18	5	1.76	44	5/8	0.92	23	
15K26-7-6	7/16	11/16x16	-7	5/16	-6	2.21	56	0.18	5	1.76	44	11/16	1.35	34	
15K26-8-8	1/2	3/4x18	-8	13/32	-8	2.06	52	0.18	5	1.74	44	3/4	1.20	30	
15K26-10-10	5/8	7/8x18	-10	1/2	-10	2.34	59	0.18	5	2.20	56	7/8	1.39	35	
15K26-10-12	5/8	7/8x18	-10	5/8	-12	2.51	64	0.18	5	2.2	56	7/8	1.57	40	

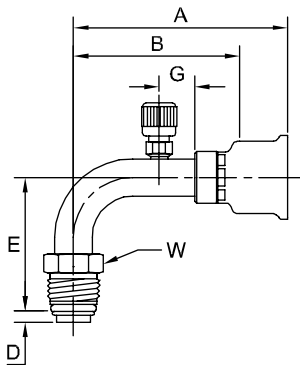
**15K26-PB Male Tube-O - Swivel  
90° Elbow - Short Pilot with High  
Pressure Charge Port for R134a**



#	Thread			Hose		A		D		E		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	Part Number																
15K26-8-8-PB	1/2	3/4x16	-8	13/32	-8	2.70	69	0.18	4.6	1.74	44	0.60	15	3/4	1.88	48	

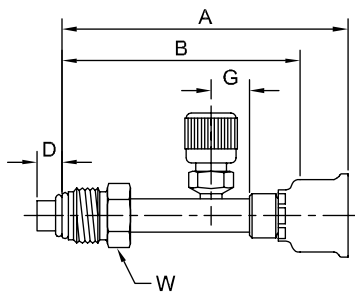


**15K26-PR Male Tube-O - Swivel  
90° Elbow - Short Pilot with Charge  
Port for R12**



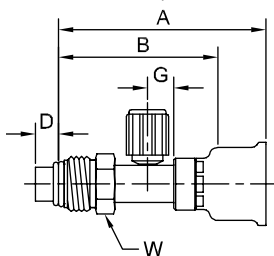
#	Thread			Hose		A		D		E		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15K26-10-10-PR	5/8	7/8x18	-10	1/2	-10	3.14	80	0.18	4,7	2.25	57	0.60	15	7/8	2.19	56	
15K26-10-12-PR	5/8	7/8x18	-10	5/8	-12	3.43	87	0.18	4,7	2.22	56	0.60	15	7/8	2.49	63	

**14526-PR Male Tube-O - Swivel  
Straight - Long Pilot with Charge  
Port for R12**



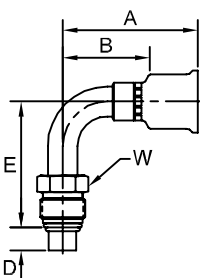
#	Thread			Hose		A		D		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
14526-6-6-PR	3/8	5/8x18	-6	5/16	-6	3.25	83	0.28	7	0.50	13	5/8	2.40	61	

**14526-PT Male Tube-O - Swivel  
Straight - Long Pilot with Charge  
Port for R134a**



#	Thread			Hose		A		D		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
14526-10-12-PT	5/8	7/8x18	-10	5/8	-12	3.45	88	0.38	9,8	0.44	11	7/8	2.51	64	

**15M26 Male Tube-O - Swivel  
90° Elbow - Long Pilot**



#	Thread			Hose		A		D		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15M26-8-8	1/2	3/4x18	-8	13/32	-8	1.95	50	0.38	10	1.65	42	3/4	1.13	29	

Hose  
**A**

Fittings  
26 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

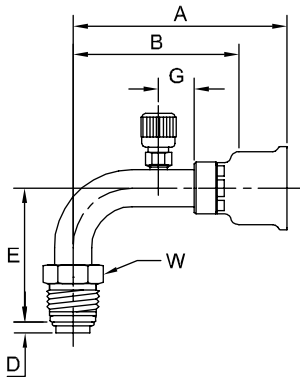
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

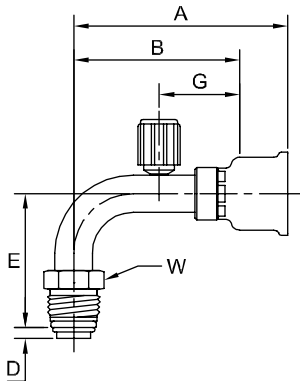
Appendices  
**G**

**15M26-PR Male Tube-O - Swivel  
90° Elbow – Long Pilot with Charge  
Port for R12**



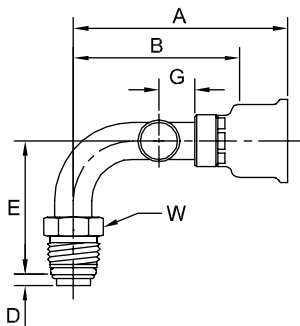
#	Thread		Hose		A		D		E		G		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15M26-6-6-PR	3/8	9.5	5/8x18	-6	5/16	7.9	0.28	7	1.58	40	0.50	13	5/8	1.62	41	

**15M26-PT Male Tube-O - Swivel  
90° Elbow – Long Pilot with Charge  
Port for R134a**



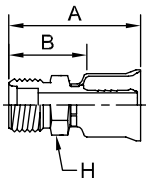
#	Thread		Hose		A		D		E		G		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15M26-10-12-PT	5/8	15.9	7/8x18	-10	5/8	15.9	0.38	9.8	2.25	57	0.60	15	7/8	2.31	59	

**15M26-PT90 Male Tube-O - Swivel  
90° Elbow – Long Pilot with Charge  
Port for R134a**



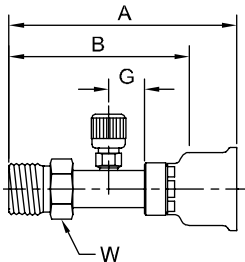
#	Thread		Hose		A		D		E		G		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15M26-10-12-PT90	5/8	15.9	7/8x18	-10	5/8	15.9	0.38	9.8	2.25	57	0.60	15	7/8	2.31	59	

**15G26 Male Tube-O - Rigid  
Straight - Internal Long Pilot (3-Step)**



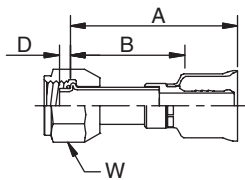
#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	inch	inch	mm
	15G26-6-6	3/8	5/8x18	-6	3/8	-6	1.78	45	5/8	0.92
15G26-8-8	1/2	3/4x16	-8	13/32	-8	1.95	50	3/4	1.09	28
15G26-10-10	5/8	7/8x14	-10	1/2	-10	4.05	103	7/8	3.10	79
15G26-10-12	5/8	7/8x14	-10	5/8	-12	2.19	56	7/8	1.25	32

**15G26-PR Male Tube-O - Rigid  
Straight - Internal Long Pilot (3-Step)  
with Charge Port for R12**



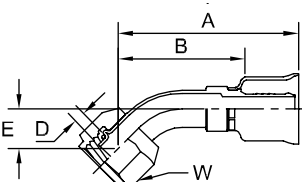
#	Thread			Hose		A		G		W	B	
	inch			inch		inch	mm	inch	mm	inch	mm	
	15G26-10-12-PR	5/8	7/8x14	-10	5/8	-12	4.27	108	0.60	15	7/8	3.33

**15S26 Female Tube-O - Swivel  
Straight - Short Pilot**



#	Thread			Hose		A		D		W	B	
	inch			inch		inch	mm	inch	mm	inch	mm	
	15S26-6-6	3/8	5/8x18	-6	5/16	-6	2.54	65	0.18	4,7	3/4	1.68
15S26-8-8	1/2	3/4x16	-8	13/32	-8	2.68	68	0.18	4,7	7/8	1.82	46
15S26-10-10	5/8	7/8x14	-10	1/2	-10	2.84	72	0.18	4,7	1-1/16	1.89	48
15S26-10-12	5/8	7/8x14	-10	5/8	-12	3.63	92	0.18	4,7	1-1/16	2.69	68
15S26-12-12	3/4	1-1/16x14	-12	5/8	-12	4.00	102	0.18	4,7	1-1/4	3.06	78

**15H26 Female Tube-O - Swivel  
45° Elbow - Short Pilot**



#	Thread			Hose		A		D		E	W	B		
	inch			inch		inch	mm	inch	mm	inch	mm	mm		
	15H26-6-6	3/8	5/8x18	-6	5/16	-6	2.35	60	0.18	4,7	0.54	14	3/4	1.49
15H26-8-8	1/2	3/4x16	-8	13/32	-8	2.48	63	0.18	4,7	0.60	15	7/8	1.62	41
15H26-10-10	5/8	7/8x14	-10	1/2	-10	3.23	82	0.18	4,7	0.67	17	1 1/16	2.28	58
15H26-10-12	5/8	7/8x14	-10	3/4	-12	3.40	86	0.18	4,7	0.67	17	1-1/16	2.46	62

Hose  
A

Fittings  
26 Series  
B

Parkrimp  
Crimping  
Equipment  
C

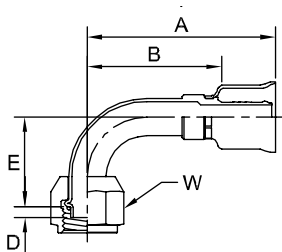
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

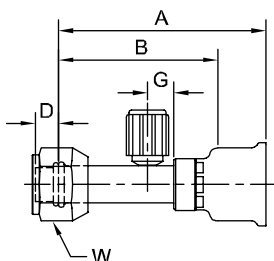
Appendices  
G

**15T26 Female Tube-O - Swivel  
90° Elbow – Short Pilot**



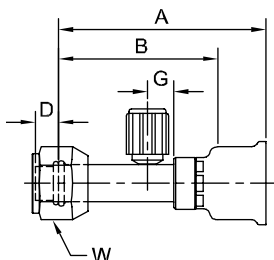
#	Thread			Hose		A		D		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	Part Number	Thread	Hose	A	D	E	W	B							
15T26-6-6	3/8	5/8x18	-6	5/16	-6	1.74	44	0.18	4,7	1.29	33	3/4	0.88	22	
15T26-8-8	1/2	3/4x16	-8	13/32	-8	2.34	59	0.18	4,7	1.46	37	7/8	1.48	38	
15T26-10-10	5/8	7/8x14	-10	1/2	-10	2.08	53	0.18	4,7	1.75	44	1-1/16	1.08	27	
15T26-10-12	5/8	7/8x14	-10	5/8	-12	2.20	56	0.18	4,7	1.75	44	1-1/16	1.26	32	
15T26-12-12	3/4	1-1/16x14	-12	5/8	-12	2.63	67	0.18	4,7	1.75	44	1-1/4	1.69	43	

**15926-PB Female Tube-O - Swivel  
Straight – Long Pilot with High Pres-  
sure Charge Port for R134a**



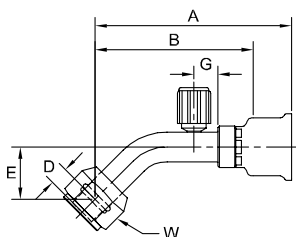
#	Thread			Hose		A		D		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	Part Number	Thread	Hose	A	D	G	W	B							
15926-6-6-PB	3/8	5/8x18	-6	5/16	-6	3.25	83	0.28	7,1	0.75	19	3/4	2.39	61	
15926-8-8-PB	1/2	3/4x16	-8	13/32	-8	2.74	70	0.38	9,8	0.50	13	7/8	1.88	48	

**15926-PT Female Tube-O - Swivel  
Straight – Long Pilot with Low Pres-  
sure Charge Port for R134a**



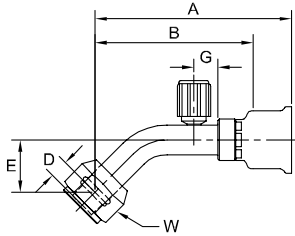
#	Thread			Hose		A		D		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	Part Number	Thread	Hose	A	D	G	W	B							
15926-10-12-PT	5/8	7/8x14	-10	5/8	-12	3.47	88	0.38	9,8	0.60	15	1-1/16	2.53	64	

**15N26-PB Female Tube-O - Swivel  
45° Elbow - Long Pilot with High  
Pressure Charge Port for R134a**



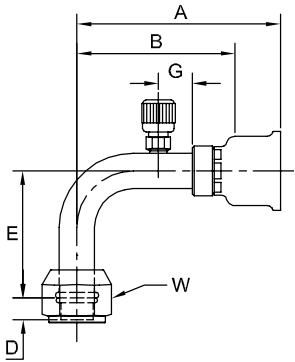
#	Thread			Hose		A		D		E		G		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	Part Number	Thread	Hose	A	D	E	G	W	B								
15N26-8-8-PB	1/2	3/4x16	-8	13/32	-8	3.67	93	0.38	9,8	0.90	23	0.60	15	7/8	2.81	72	

**15N26-PT Female Tube-O - Swivel  
45° Elbow - Long Pilot with Low Pres-  
sure Charge Port for R134a**



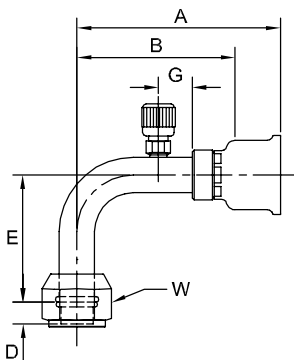
#	Thread		Hose		A		D		E		G		W		B	
	inch		inch		inch		inch		inch		inch		inch		inch	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15N26-10-12-PT	5/8	7/8x14	-10	5/8	-12	3.92	100	0.38	9,8	1.21	31	0.60	15	1-1/16	2.98	76

**15L26-PB Female Tube-O - Swivel  
90° Elbow - Long Pilot with High  
Pressure Charge Port for R134a**



#	Thread		Hose		A		D		E		G		W		B	
	inch		inch		inch		inch		inch		inch		inch		inch	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15L26-6-6-PB	3/8	5/8x18	-6	5/16	-6	2.50	64	0.28	7,1	1.22	31	0.50	13	3/4	1.64	42
15L26-8-8-PB	1/2	3/4x16	-8	13/32	-8	2.80	71	0.38	9,8	1.46	37	0.60	15	7/8	1.94	49

**15L26-PR Female Tube-O - Swivel  
90° Elbow - Long Pilot with Charge  
Port for R12**



#	Thread		Hose		A		D		E		G		W		B	
	inch		inch		inch		inch		inch		inch		inch		inch	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15L26-8-8-PR	1/2	3/4x16	-8	13/32	-8	2.79	71	0.38	9,8	1.46	37	0.6	15	7/8	1.93	49
15L26-10-10-PR	5/8	7/8x14	-10	1/2	-10	3.59	91	0.38	9,8	2.25	57	0.6	15	1-1/16	2.64	67
15L26-10-12-PR	5/8	7/8x14	-10	5/8	-12	3.25	83	0.38	9,8	2.25	57	0.6	15	1-1/16	2.31	59

Hose  
**A**

Fittings  
26 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

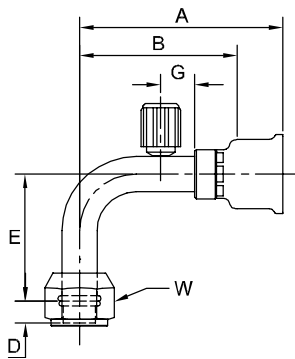
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

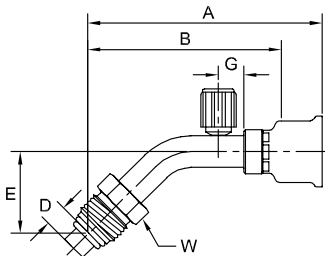
Appendices  
**G**

**15L26-PT Female Tube-O - Swivel  
90° Elbow – Long Pilot with Low  
Pressure Charge Port for R134a**



#	Thread			Hose		A		D		E		G		W		B	
	inch			inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15L26-10-10-PT	5/8	7/8x14	-10	1/2	-10	2.95	75	0.38	9.8	2.25	57	0.60	15	1-1/16	2.00	51	
15L26-10-12-PT	5/8	7/8x14	-10	5/8	-12	3.25	83	0.38	9.8	2.25	57	0.60	15	1-1/16	2.31	59	
15L26-12-12-PT	3/4	1-1/16x14	-12	5/8	-12	3.58	91	0.38	9.8	2.66	68	0.60	15	1-1/4	2.64	67	

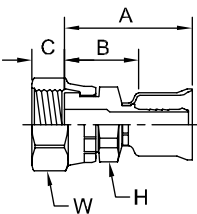
**15P26-PT Male Tube-O - Swivel  
45° Elbow - Long Pilot with Charge  
Port for R134a**



#	Thread			Hose		A		D		E		G		W		B	
	inch			inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15P26-10-12-PT	5/8	7/8x18	-10	5/8	-12	3.81	97	0.38	9.8	1.21	31	0.60	15	7/8	2.87	73	

**1JC26 Female Seal-Lok® - Swivel  
Straight - Short**

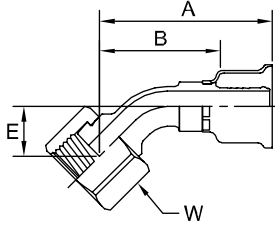
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		C		H		W		B	
	inch			inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1JC26-4-4	1/4	9/16x18	-4	3/16	-4	1.66	42	0.31	8	9/16	11/16	0.79	20		
1JC26-6-6	3/8	11/16x16	-6	5/16	-6	1.70	43	0.34	9	11/16	13/16	0.84	21		
1JC26-8-8	1/2	13/16x16	-8	13/32	-8	1.76	45	0.43	11	13/16	15/16	0.90	23		
1JC26-12-12	3/4	1-3/16x12	-12	5/8	-12	2.13	54	0.55	14	1-1/8	1-3/8	1.19	30		
1JC26-16-16	1	1-7/16x12	-16	7/8	-16	2.39	61	0.56	14	1-3/8	1-5/8	1.35	34		
1JC26-20-20	1-1/4	1-11/16x12	-20	1-1/8	-20	2.45	62	0.59	15	1-7/8	1-7/8	1.39	35		

**1J726 Female Seal-Lok® - Swivel  
45° Elbow**

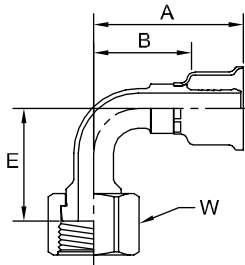
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J726-4-4	1/4	9/16x18	-4	3/16	-4	1.99	51	0.39	10	11/16	1.12	28	
1J726-6-6	3/8	1-1/16x16	-6	5/16	-6	2.43	62	0.43	11	13/16	1.57	40	
1J726-8-8	1/2	13/16x16	-8	13/32	-8	2.77	70	0.59	15	15/16	1.91	49	
1J726-10-10	5/8	1x14	-10	1/2	-10	3.26	83	0.63	16	1-1/8	2.31	59	
1J726-12-12	3/4	1-3/16x12	-12	5/8	-12	3.13	80	0.83	21	1-3/8	2.19	56	
1J726-16-16	1	1-7/16x12	-16	7/8	-16	3.61	92	0.94	24	1-5/8	2.57	65	
1J726-20-20	1-1/4	1-11/16x12	-20	1-1/8	-20	3.93	100	1.00	25	1-7/8	2.87	73	

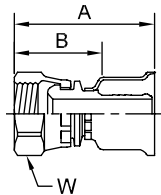
**1J926 Female Seal-Lok® - Swivel  
90° Elbow - Short Drop**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J926-4-4	1/4	9/16x18	-4	3/16	-4	1.80	46	0.83	21	11/16	0.93	24	
1J926-6-6	3/8	1-1/16x16	-6	5/16	-6	1.86	47	0.91	23	13/16	1.00	25	
1J926-8-8	1/2	13/16x16	-8	13/32	-8	2.14	54	1.14	29	15/16	1.28	33	
1J926-10-10	5/8	1x14	-10	1/2	-10	2.53	64	1.26	32	1-1/8	1.58	40	
1J926-12-12	3/4	1-3/16x12	-12	5/8	-12	2.51	64	1.89	48	1-3/8	1.57	40	
1J926-16-16	1	1-7/16x12	-16	7/8	-16	3.56	90	2.21	56	1-5/8	2.52	64	
1J926-20-20	1-1/4	1-11/16x12	-20	1-1/8	-20	4.05	103	2.51	64	1-7/8	2.99	76	

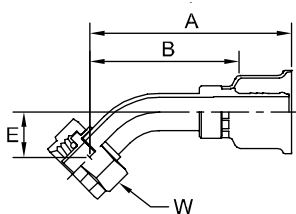
**17B26 Female Air Brake Jounce Line  
Swivel - Straight** BA - Steel Nut, Brass Nipple, Steel Shell



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
17B26-8-6BA	1/2	3/4x20	-8	5/16	-6	1.75	44			11/16	0.89	23	
17B26-8-8BA	1/2	3/4x20	-8	13/32	-8	1.75	44			11/16	0.89	23	

**15V26 Female Compressor - Swivel  
45° Elbow**

Note: O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
15V26-12-8	1x14	-12	13/32	-8	2.72	69	0.75	19	1-1/8	1.86	47		
15V26-12-12	1x14	-12	5/8	-12	3.39	86	0.76	19	1-1/8	2.45	62		

Hose  
**A**

Fittings  
26 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

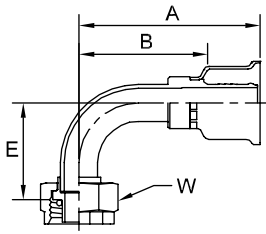
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**15W26 Female Compressor - Swivel  
90° Elbow**

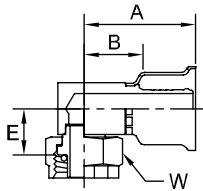
Note: O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm
15W26-12-8	1x14	-12	13/32	-8	2.24	57	1.25	32	1-1/8	1.38	35
15W26-12-12	1x14	-12	5/8	-12	3.04	77	1.63	41	1-1/8	2.10	53

**15Z26 Female Compressor - Swivel  
90° Elbow - Block Type**

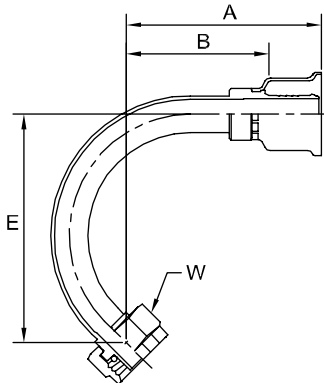
Note: O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm
15Z26-12-8	1X14	-12	13/32	-8	1.79	45	0.80	20	1-1/8	0.93	24
15Z26-12-12	1X14	-12	5/8	-12	1.87	47	0.80	20	1-1/8	0.93	24

**1RV26 Female Compressor Fitting -  
135° Elbow**

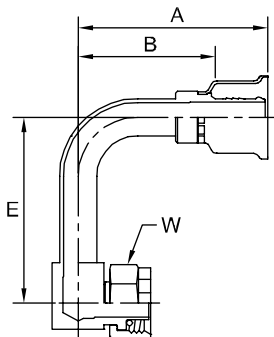
Note: O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm
1RV26-12-8	1x14	-12	13/32	-8	3.24	82	3.21	82	1-1/8	2.38	60
1RV26-12-12	1x14	-12	5/8	-12	2.32	59	3.21	82	1-1/8	1.38	35

**1RZ26 Female Compressor Fitting  
Swivel - 180° Elbow - Block Type RZ**

Note: O-Rings are listed in Section F.

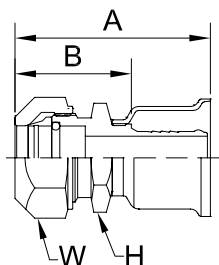


#	Thread		Hose		A		E		W	B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm
1RZ26-12-12	1x14	-12	5/8	-12	2.98	76	3.13	80	1-1/8	2.04	52



# 1T126 Male Refrigerant Tube Mender Straight (with Nut and Ferrule)

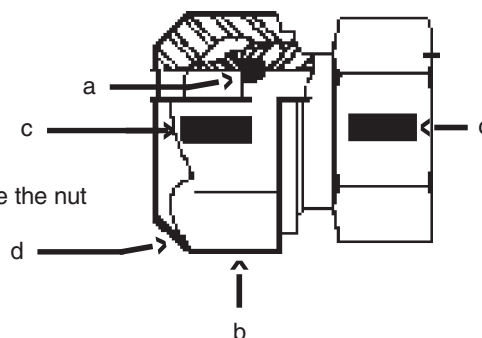
Note: This Parker fitting makes it possible to salvage a steel, stainless steel or aluminum bent tube section from a hose assembly for quick, easy, on the job repairs.



# Part Number	Thread			Hose		A		H	B	
	inch	inch	inch	inch	inch	inch	mm	inch	inch	mm
1T126-6-6	3/8	5/8x18	-6	5/16	-6	1.96	50	7/8	1.10	28
1T126-6-8	3/8	5/8x18	-6	13/32	-8	1.97	50	7/8	1.11	28
1T126-8-6	1/2	3/4x16	-8	5/16	-6	2.06	52	7/8	1.20	30
1T126-8-8	1/2	3/4x16	-8	13/32	-8	2.07	53	1	1.21	31
1T126-8-10	1/2	3/4x16	-8	1/2	-10	2.18	55	1-1/8	1.23	31
1T126-10-8	5/8	7/8x14	-10	13/32	-8	2.17	55	1	1.31	33
1T126-10-10	5/8	7/8x14	-10	1/2	-10	2.28	58	1-1/8	1.33	34
1T126-10-12	5/8	7/8x14	-10	5/8	-12	2.27	58	1-1/4	1.33	34
1T126-12-12	3/4	1-16x14	-12	5/8	-12	2.33	59	1-1/4	1.39	35

## 1T126 Fitting Installation Instructions

- Cut the tube off squarely next to the hose fitting. At least 7/8" straight length is required and the outside diameter of the tube should be smooth and free from deep lengthwise scratches.
- To prevent cutting the inside of the O-ring, smoothly chamfer the outside diameter of the cut end 15° to 30°. Deburr the inside diameter.
- Remove the nut, compression sleeve, and O-ring from the fitting and lubricate the O-ring with a lubricant that is compatible with the refrigerant used in the system.
- Place the lubricated O-ring in the counterbore of the fitting.
- Slip the compression sleeve, small end, into the nut and assemble the nut on the fitting fingertight. Make sure the compression sleeve is not cocked in the nut. Back the nut off 1/6 to 1/3 turn (one to two hex flats).
- Insert the chamfered tube end through the nut into the fitting. If high resistance is felt when the end of the tube contacts the O-ring, remove the tube. The end of the tube may require a larger chamfer and/or the O-ring may require more lubrication on the inside diameter. Repeat the previous steps.
- (a) Make sure the tube is bottomed in the fitting  
(b) Tighten the nut fingertight  
(c) Mark the fitting and nut hex indicating the starting point (see illustration) and  
(d) Wrench tighten the nut 1 to 1-1/6 turns (6 to 7 hex flats).
- Later, if it is ever necessary to loosen the connection, re-assemble the nut 1/6 turn (one hex flat) after fingertight.



Hose  
A

Fittings  
26 Series  
B

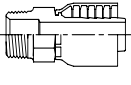
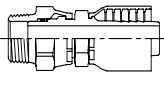
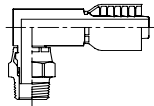
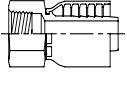
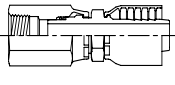
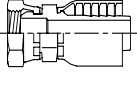
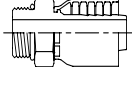
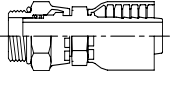
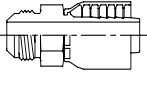
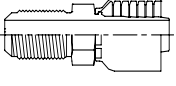
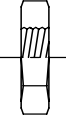
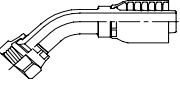
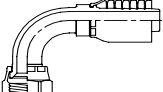
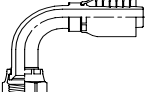
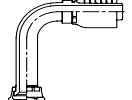
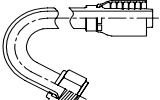
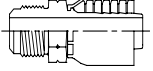
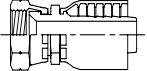
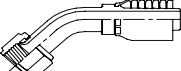
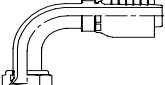
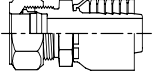
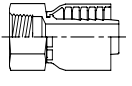
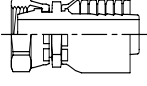
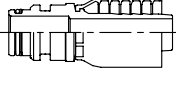
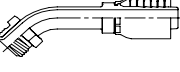
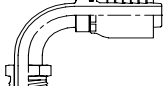
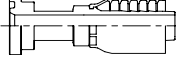
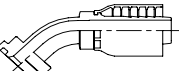
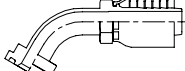
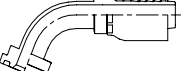
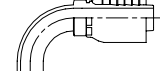
Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

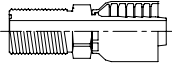

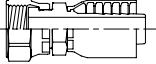
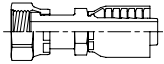
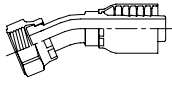
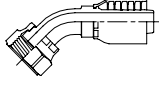
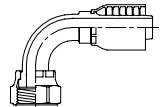
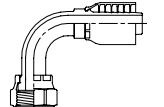
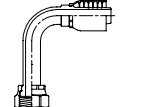
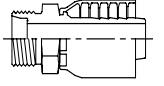
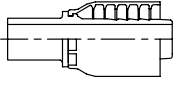
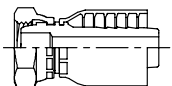
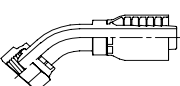
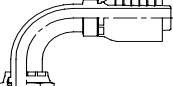
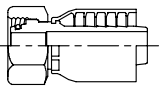
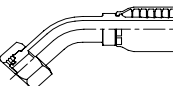
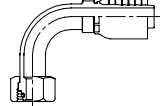
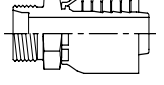
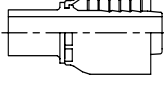
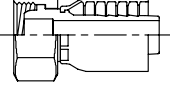
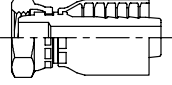
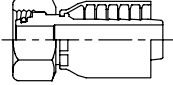
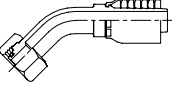
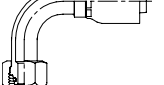
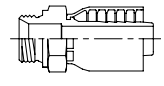
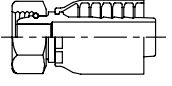
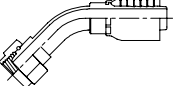
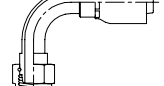
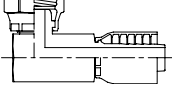
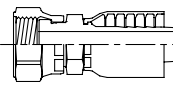
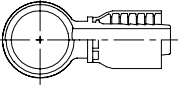
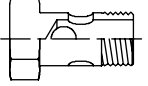
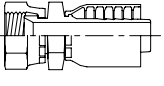
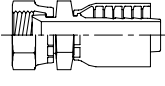
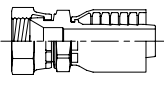
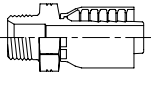
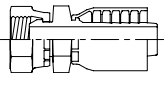
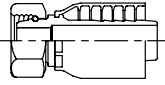
Accessories  
F

Appendices  
G

<b>NPTF Pipe</b>	10143 B-25  Male - Rigid - Straight	11343 B-25  Male - Swivel Straight	11L43 B-26  Male - Swivel 90° Elbow	10243 B-26  Female - Rigid Straight	1S243 B-27  Female - Swivel Straight
	<b>NPSM Pipe</b>	10743 B-26  Female - Swivel Straight	<b>Straight Thread O-Ring</b>	10543 B-27  Male - Rigid - Straight	10G43 B-27  Male - Swivel Straight
<b>JIC 37°</b>		10343 B-28  Male - Rigid - Straight		1LB43 B-29  Male - Bulkhead Straight	WLN B-29  Bulkhead Locknut
	1L743 B-30  Female - Swivel 45° Elbow - Medium	13943 B-31  Female - Swivel 90° Elbow - Short	1L943 B-31  Female - Swivel 90° Elbow - Medium	14143 B-32  Female - Swivel 90° Elbow - Long	14V43 B-32  Female - Swivel 150° Elbow
10443 B-32  Male - Rigid - Straight	10843 B-33  Female - Swivel Straight	17743 B-33  Female - Swivel 45° Elbow	17943 B-33  Female - Swivel 90° Elbow	<b>Flareless</b>	11143 B-33  Male - Rigid - Straight
1GJ43 B-34  Female - Rigid Straight	11243 B-34  Female - Swivel Straight	<b>Hydra-Clip</b>	1S043 B-34  Male - Rigid - Straight		<b>Inverted Flare</b>
16743 B-35  Male - Swivel 45° Elbow	16943 B-35  Male - Swivel 90° Elbow		<b>Code 61 Flange</b>	11543 B-35  Straight	
11743 B-36  45° Elbow	12743 B-37  60° Elbow	11843 B-37  67 1/2° Elbow		11943 B-37  90° Elbow	<b>Seal-Lok®</b>

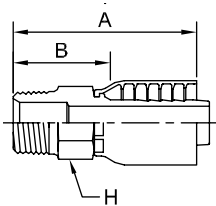
Hose	<b>A</b>
Fittings 43 Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

**A** Hose  
**B** Fittings 43 Series  
**C** Parkrimp Crimping Equipment  
**D** Hose Assembly Equipment  
**E** Adapters  
**F** Accessories  
**G** Appendices

1JB43 B-38  Male - Bulkhead Straight	WLNL B-38  Bulkhead Locknut	1JC43 B-39  Female - Swivel Straight - Short	1JS43 B-40  Female - Swivel Straight - Long	1J643 B-40  Female - Swivel 22 1/2° Elbow	1J743 B-41  Female - Swivel 45° Elbow
1J943 B-42  Female - Swivel 90° Elbow - Short	1J543 B-42  Female - Swivel 90° Elbow - Medium	1J143 B-43  Female - Swivel 90° Elbow - Long	<b>DIN "L" Series</b>	1D043 B-43  Male - Rigid - Straight	11D43 B-44  Male - Rigid - Straight
1C343 B-44  Female - Swivel Straight	1C443 B-44  Female - Swivel 45° Elbow	1C543 B-45  Female - Swivel 90° Elbow	<b>DIN "L" Series w/O-Ring</b>	1CA43 B-45  Female - Swivel Straight	1CE43 B-45  Female - Swivel 45° Elbow
1CF43 B-46  Female - Swivel 90° Elbow	<b>DIN "S" Series</b>	1D243 B-46  Male - Rigid - Straight	13D43 B-46  Male - Rigid - Straight	1C643 B-47  Female - Swivel Straight	<b>DIN 60° Cone</b>
1C043 B-47  Female - Swivel Straight	<b>DIN "S" Series w/O-Ring</b>	1C943 B-47  Female - Swivel Straight	10C43 B-48  Female - Swivel 45° Elbow	11C43 B-48  Female - Swivel 90° Elbow	<b>BSP</b>
1D943 B-48  Male - Rigid - Straight	19243 B-49  Female - Swivel Straight	1B143 B-49  Female - Swivel 45° Elbow	1B243 B-49  Female - Swivel 90° Elbow	1B443 B-50  Female - Swivel 90° Elbow - Block Type	1B543 B-50  Female - Swivel Straight
<b>Banjo</b>	14943 B-50  Straight	AM B-50  Bolt	<b>BSP 30° Flare</b>	1MU43 B-51  Female - Swivel Straight	1FU43 B-51  Female - Swivel Straight
1XU43 B-51  Female - Swivel Straight	<b>BSP 60° Cone</b>	1UT43 B-52  Male - Rigid - Straight	1GU43 B-52  Female - Swivel Straight	<b>French Gaz</b>	1F443 B-52  Female - Swivel Straight

## 10143 Male NPTF Pipe - Rigid Straight

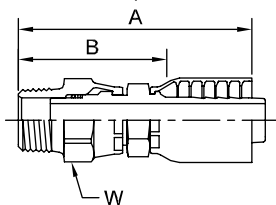
Note: "C" - Stainless Steel Fitting. Must be crimped with Karrykrimp 2, PHastkrimp, Superkrimp, or Parkrimp 2.



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
10143-2-4	1/8x27	-2	1/4	-4	1.80	46	9/16	1.05	27	
10143-4-4	1/4x18	-4	1/4	-4	2.01	51	9/16	1.26	32	
10143-4-4C	1/4x18	-4	1/4	-4	2.01	51	9/16	1.26	32	
10143-4-5	1/4x18	-4	5/16	-5	1.94	49	11/16	1.19	30	
10143-4-6	1/4x18	-4	3/8	-6	2.28	58	3/4	1.25	32	
10143-6-4	3/8x18	-6	1/4	-4	1.86	47	11/16	1.11	28	
10143-6-5	3/8x18	-6	5/16	-5	1.94	49	11/16	1.19	30	
10143-6-6	3/8x18	-6	3/8	-6	2.37	60	3/4	1.34	34	
10143-6-6C	3/8x18	-6	3/8	-6	2.37	60	3/4	1.34	34	
10143-6-8	3/8x18	-6	1/2	-8	2.59	66	7/8	1.33	34	
10143-6-10	3/8x18	-6	5/8	-10	2.61	66	15/16	1.17	30	
10143-8-4	1/2x14	-8	1/4	-4	2.13	54	7/8	1.38	35	
10143-8-6	1/2x14	-8	3/8	-6	2.39	61	7/8	1.36	35	
10143-8-8	1/2x14	-8	1/2	-8	2.84	72	7/8	1.58	40	
10143-8-8C	1/2x14	-8	1/2	-8	2.84	72	7/8	1.58	40	
10143-8-10	1/2x14	-8	5/8	-10	3.04	77	15/16	1.59	40	
10143-8-12	1/2x14	-8	3/4	-12	3.04	77	1-1/16	1.60	41	
10143-12-8	3/4x14	-12	1/2	-8	2.68	68	1-1/16	1.42	36	
10143-12-10	3/4x14	-12	5/8	-10	2.87	73	1-1/16	1.43	36	
10143-12-12	3/4x14	-12	3/4	-12	3.09	78	1-1/16	1.65	42	
10143-12-12C	3/4x14	-12	3/4	-12	3.09	78	1-1/16	1.65	42	
10143-12-16	3/4x14	-12	1	-16	3.40	86	1-3/8	1.78	45	
10143-16-12	1x11-1/2	-16	3/4	-12	3.09	78	1-3/8	1.65	42	
10143-16-16	1x11-1/2	-16	1	-16	2.59	66	1-3/8	1.97	50	
10143-16-16C	1x11-1/2	-16	1	-16	2.59	66	1-3/8	1.97	50	
10143-20-20	1-1/4x11-1/2	-20	1-1/4	-20	4.08	104	1-3/4	2.39	61	
10143-20-20C	1-1/4x11-1/2	-20	1-1/4	-20	4.08	104	1-3/4	2.39	61	
10143-24-24	1-1/2x11-1/2	-24	1-1/2	-24	3.50	89	2	2.13	54	
10143-32-32	2x11-1/2	-32	2	-32	4.05	103	2-1/2	2.27	58	

## 11343 Male NPTF Pipe - Swivel Straight

Note: O-Ring not compatible with Phosphate Ester Fluids.  
Note: See Section G - Hose Assemblies - for pressure limitations.



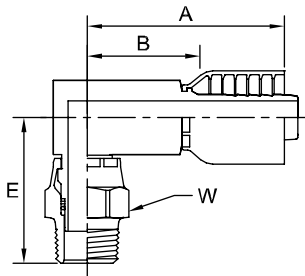
#	Thread		Hose		A		W		B	
	inch		inch		inch	mm	inch	inch	inch	mm
11343-2-4	1/8x27	-2	1/4	-4	2.94	75	5/8	2.19	56	
11343-4-4	1/4x18	-4	1/4	-4	2.68	68	5/8	1.93	49	
11343-4-6	1/4x18	-4	3/8	-6	3.01	76	5/8	1.98	50	
11343-6-4	3/8x18	-6	1/4	-4	2.81	71	3/4	2.06	52	
11343-6-6	3/8x18	-6	3/8	-6	3.08	78	3/4	2.05	52	
11343-6-8	3/8x18	-6	1/2	-8	3.30	84	3/4	2.04	52	
11343-8-6	1/2x14	-8	3/8	-6	3.30	84	7/8	2.27	58	
11343-8-8	1/2x14	-8	1/2	-8	3.52	89	7/8	2.26	57	
11343-12-12	3/4x14	-12	3/4	-12	3.93	100	1-1/4	2.49	63	
11343-16-16	1x11-1/2	-16	1	-16	4.52	115	1-1/2	2.90	74	

11L43 Male NPTF Pipe - Swivel  
90° Elbow

Note: The fitting allows minor movements under pressure to relieve stress on hose. It is **not** to be used for continuous or extensive swiveling.

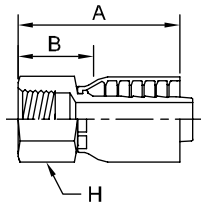
Note: O-Ring not compatible with Phosphate Ester Fluids.

Note: See Section G - Hose Assemblies - for pressure limitations.



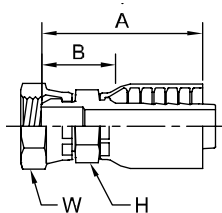
#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	inch		inch									
11L43-4-4	1/4x18	-4	1/4	-4	2.23	57	1.79	45	5/8	1.48	38	
11L43-4-6	1/4x18	-4	3/8	-6	2.53	64	1.85	47	5/8	1.50	38	
11L43-6-6	3/8x18	-6	3/8	-6	2.53	64	1.94	49	3/4	1.50	38	
11L43-8-6	1/2x14	-8	3/8	-6	2.66	68	2.17	55	7/8	1.63	41	
11L43-8-8	1/2x14	-8	1/2	-8	2.96	75	2.17	55	7/8	1.70	43	
11L43-12-12	3/4x14	-12	3/4	-12	3.32	84	2.46	62	1-1/4	1.88	48	

10243 Female NPTF Pipe - Rigid  
Straight



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	mm	
	inch		inch							
10243-2-4	1/8x27	-2	1/4	-4	1.68	43	5/8	0.93	24	
10243-4-4	1/4x18	-4	1/4	-4	1.78	45	11/16	1.03	26	
10243-4-6	1/4x18	-4	3/8	-6	2.05	52	3/4	1.02	26	
10243-6-4	3/8x18	-6	1/4	-4	2.05	52	7/8	1.30	33	
10243-6-6	3/8x18	-6	3/8	-6	2.32	59	7/8	1.29	33	
10243-8-6	1/2x14	-8	3/8	-6	2.40	61	1-1/8	1.37	35	
10243-8-8	1/2x14	-8	1/2	-8	2.62	67	1-1/8	1.36	35	
10243-12-12	3/4x14	-12	3/4	-12	2.72	69	1-1/4	1.28	33	

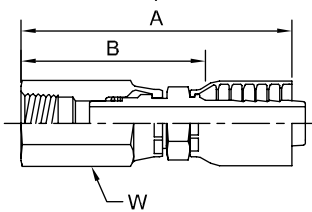
10743 Female NPSM Pipe - Swivel  
Straight (60° Cone)



#	Thread		Hose		A		H		W		B	
	inch		inch		inch	mm	inch	inch	inch	inch	mm	
	inch		inch									
10743-2-4	1/8x27	-2	1/4	-4	1.69	43	9/16	9/16	0.94	24		
10743-4-4	1/4x18	-4	1/4	-4	1.74	44	9/16	11/16	0.99	25		
10743-6-6	3/8x18	-6	3/8	-6	2.09	53	11/16	7/8	1.06	27		
10743-8-8	1/2x14	-8	1/2	-8	2.32	59	15/16	1	1.06	27		
10743-12-12	3/4x14	-12	3/4	-12	2.70	69	1-1/16	1-1/4	1.47	37		
10743-16-16	1x11-1/2	-16	1	-16	3.09	78	1-3/8	1-1/2	1.47	37		
10743-20-20	1-1/4x11-1/2	-20	1-1/4	-20	3.28	83	1-7/8	1-7/8	1.59	40		

### 1S243 Female NPTF Pipe - Swivel Straight

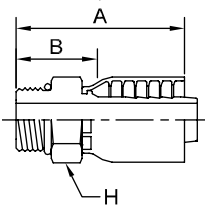
Note: The fitting allows minor movements under pressure to relieve stress on hose but is not to be used for continuous or extensive swiveling.  
 Note: O-Ring not compatible with Phosphate Ester Fluids.  
 Note: See Section G - Hose Assemblies - for pressure limitations.



#	Thread		Hose		A		W	B	
	inch		inch		inch	mm	inch	inch	mm
1S243-4-4	1/4x18	-4	1/4	-4	3.33	85	3/4	2.58	66

### 10543 Male SAE Straight Thread with O-Ring - Rigid - Straight

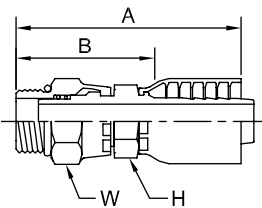
Note: O-Ring not compatible with Phosphate Ester Fluids.



#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	inch	inch	mm
10543-4-4	1/4	7/16x20	-4	1/4	-4	1.64	42	9/16	0.89	23
10543-5-4	5/16	1/2x20	-5	1/4	-4	1.80	46	5/8	1.05	27
10543-6-4	3/8	9/16x18	-6	1/4	-4	1.67	42	11/16	0.92	23
10543-6-6	3/8	9/16x18	-6	3/8	-6	2.10	53	11/16	1.07	27
10543-6-8	3/8	9/16x18	-6	1/2	-8	2.32	59	13/16	1.06	27
10543-8-6	1/2	3/4x16	-8	3/8	-6	2.11	54	7/8	1.08	27
10543-8-8	1/2	3/4x16	-8	1/2	-8	2.46	62	7/8	1.20	30
10543-10-6	5/8	7/8x14	-10	3/8	-6	2.13	54	1	1.10	28
10543-10-8	5/8	7/8x14	-10	1/2	-8	2.35	60	1	1.09	28
10543-10-10	5/8	7/8x14	-10	5/8	-10	2.77	70	1	1.33	34
10543-12-8	3/4	1-1/16x12	-12	1/2	-8	2.61	66	1-1/4	1.35	34
10543-12-10	3/4	1-1/16x12	-12	5/8	-10	2.80	71	1-1/4	1.36	35
10543-12-12	3/4	1-1/16x12	-12	3/4	-12	2.81	71	1-1/4	1.37	35
10543-16-12	1	1-5/16x12	-16	3/4	-12	2.81	71	1-1/2	1.37	35
10543-16-16	1	1-5/16x12	-16	1	-16	3.37	86	1-1/2	1.75	44
10543-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.69	94	1-7/8	2.00	51

### 10G43 Male SAE Straight Thread with O-Ring - Swivel - Straight

Note: The fitting allows minor movements under pressure to relieve stress on hose. It is not to be used for continuous or extensive swiveling.  
 Note: O-Ring not compatible with Phosphate Ester Fluids.  
 Note: See Section G - Hose Assemblies - for pressure limitations.



#	Thread			Hose		A		W	B	
	inch			inch		inch	mm	inch	inch	mm
10G43-5-4	5/16	1/2x20	-5	1/4	-4	2.98	76	3/4	2.23	57
10G43-6-4	3/8	9/16x18	-6	1/4	-4	2.98	76	3/4	2.23	57
10G43-6-6	3/8	9/16x18	-6	3/8	-6	3.25	83	3/4	2.22	56
10G43-8-6	1/2	3/4x16	-8	3/8	-6	3.06	78	7/8	2.06	52
10G43-8-8	1/2	3/4x16	-8	1/2	-8	3.21	82	7/8	1.95	50
10G43-10-6	5/8	7/8x14	-10	3/8	-6	3.01	76	1	2.01	51
10G43-10-8	5/8	7/8x14	-10	1/2	-8	3.27	83	1	2.01	51
10G43-12-12	3/4	1-1/16x12	-12	3/4	-12	3.78	96	1-1/4	2.34	59

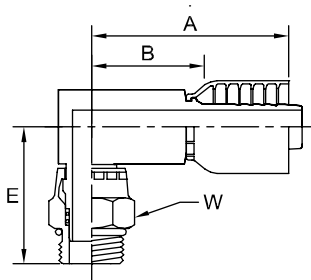
A Hose  
 B Fittings 43 Series  
 C Parkrimp Crimping Equipment  
 D Hose Assembly Equipment  
 E Adapters  
 F Accessories  
 G Appendices

**10L43 Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow**

Note: The fitting allows minor movements under pressure to relieve stress on hose. It is not to be used for continuous or extensive swiveling.

Note: O-Ring not compatible with Phosphate Ester Fluids.

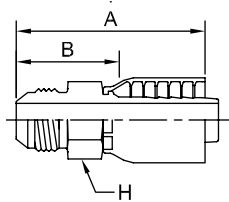
Note: See Section G - Hose Assemblies - for pressure limitations.



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
10L43-6-6	3/8	9/16x18	-6	3/8	-6	2.53	64	2.10	53	3/4	1.50	38
10L43-8-6	1/2	3/4x16	-8	3/8	-6	2.66	68	1.86	47	7/8	1.63	41
10L43-8-8	1/2	3/4x16	-8	1/2	-8	2.96	75	1.87	47	7/8	1.70	43
10L43-10-8	5/8	7/8x14	-10	1/2	-8	2.96	75	1.92	49	1	1.70	43
10L43-12-12	3/4	1-1/16x12	-12	3/4	-12	3.22	82	2.30	58	1-1/4	1.88	48

**10343 Male JIC 37° - Rigid - Straight**

^ Must use Parkrimp 2 with Die Part No. 83C-A20H.



#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	inch	inch	mm
10343-4-4	1/4	7/16x20	-4	1/4	-4	1.99	51	9/16	1.24	31
10343-5-4	5/16	1/2x20	-5	1/4	-4	1.83	46	9/16	1.08	27
10343-5-6	5/16	1/2x20	-5	3/8	-6	2.26	57	3/4	1.23	31
10343-6-4	3/8	9/16x18	-6	1/4	-4	1.84	47	11/16	1.09	28
10343-6-6	3/8	9/16x18	-6	3/8	-6	2.36	60	3/4	1.33	34
10343-8-6	1/2	3/4x16	-8	3/8	-6	2.30	58	7/8	1.27	32
10343-8-8	1/2	3/4x16	-8	1/2	-8	2.68	68	7/8	1.42	36
10343-8-10	1/2	3/4x16	-8	5/8	-10	2.85	72	7/8	1.41	36
10343-10-6	5/8	7/8x14	-10	3/8	-6	2.40	61	15/16	1.37	35
10343-10-8	5/8	7/8x14	-10	1/2	-8	2.62	67	15/16	1.36	35
10343-12-8	3/4	1-1/16x12	-12	1/2	-8	2.76	70	1-1/8	1.50	38
10343-10-10	5/8	7/8x14	-10	5/8	-10	3.03	77	15/16	1.59	40
10343-12-10	3/4	1-1/16x12	-12	5/8	-10	3.07	78	1-1/8	1.63	41
10343-12-12	3/4	1-1/16x12	-12	3/4	-12	3.19	81	1-1/8	1.75	44
10343-14-12	7/8	1-3/16x12	-14	3/4	-12	3.11	79	1-1/4	1.67	42
10343-16-12	1	1-5/16x12	-16	3/4	-12	3.04	77	1-3/8	1.60	41
10343-16-16	1	1-5/16x12	-16	1	-16	3.63	92	1-3/8	2.01	51
10343-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.96	101	1-7/8	2.27	58
10343-24-20^	1-1/2	1-7/8x12	-24	1-1/4	-20	3.71	94	2	2.02	51

Hose  
**A**

Fittings  
43 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

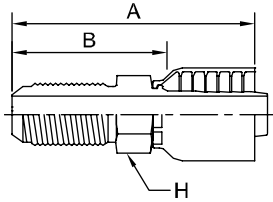
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

## 1LB43 Male JIC 37° Bulkhead without Locknut - Straight

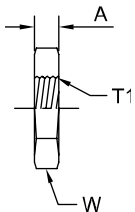
Note: These fittings are stocked minus the locknut (part no. WLN). Locknuts are manufactured by the Tube Fittings Division of Parker Hannifin and must be ordered separately.



#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	inch	inch	mm
	inch	mm	mm	inch	mm	inch	mm	inch	inch	mm
1LB43-4-4	1/4	7/16x20	-4	1/4	-4	2.64	67	9/16	1.89	48
1LB43-6-6	3/8	9/16x18	-6	3/8	-6	3.08	78	3/4	2.05	52
1LB43-8-8	1/2	3/4x16	-8	1/2	-8	3.46	88	7/8	2.20	56
1LB43-10-10	5/8	7/8x14	-10	5/8	-10	3.85	98	15/16	2.41	61
1LB43-12-12	3/4	1-1/16x12	-12	3/4	-12	4.08	104	1-1/8	2.64	67

## WLN Bulkhead Locknut

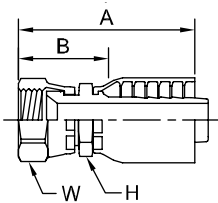
Note: Locknuts are manufactured by the Tube Fittings Division of Parker Hannifin and must be ordered separately.



#	T1		A		W
	Thread		inch	mm	
	inch	mm	inch	mm	
4 WLN-S	1/4	7/16x20	0.25	6	11/16
6 WLN-S	3/8	9/16x18	0.27	7	13/16
8 WLN-S	1/2	3/4x16	0.31	8	1
10 WLN-S	5/8	7/8x14	0.36	9	1-1/8
12 WLN-S	3/4	1-1/16x12	0.41	10	1-3/8

## 10643 Female JIC 37° - Swivel Straight

Note: "C" - Stainless Steel Fitting. Must be crimped with Karrykrimp 2, PHastkrimp or Parkrimp 2.



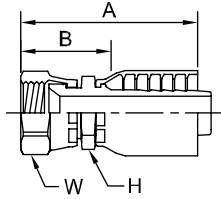
More sizes are available on the next page.

#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	inch	mm	mm	inch	mm	inch	mm	inch	inch	inch	mm
10643-4-4	1/4	7/16x20	-4	1/4	-4	1.94	49	9/16	9/16	1.19	30
10643-4-4C	1/4	7/16x20	-4	1/4	-4	1.94	49	9/16	9/16	1.19	30
10643-4-6	1/4	7/16x20	-4	3/8	-6	2.20	56	11/16	9/16	1.17	30
10643-5-4	5/16	1/2x20	-5	1/4	-4	2.03	52	9/16	5/8	1.28	33
10643-5-5	5/16	1/2x20	-5	5/16	-5	2.08	53	11/16	5/8	1.33	34
10643-5-6	5/16	1/2x20	-5	3/8	-6	2.26	57	11/16	5/8	1.23	31
10643-6-4	3/8	9/16x18	-6	1/4	-4	2.05	52	9/16	11/16	1.30	33
10643-6-5	3/8	9/16x18	-6	5/16	-5	2.10	53	11/16	11/16	1.35	34
10643-6-6	3/8	9/16x18	-6	3/8	-6	2.29	58	11/16	11/16	1.26	32
10643-6-6C	3/8	9/16x18	-6	3/8	-6	2.29	58	11/16	11/16	1.26	32
10643-6-8	3/8	9/16x18	-6	1/2	-8	2.51	64	13/16	11/16	1.25	32
10643-8-6	1/2	3/4x16	-8	3/8	-6	2.49	63	11/16	7/8	1.46	37
10643-8-8	1/2	3/4x16	-8	1/2	-8	2.63	67	13/16	7/8	1.37	35
10643-8-8C	1/2	3/4x16	-8	1/2	-8	2.63	67	13/16	7/8	1.37	35
10643-8-10	1/2	3/4x16	-8	5/8	-10	2.82	72	15/16	7/8	1.38	35
10643-8-12	1/2	3/4x16	-8	3/4	-12	2.83	72	1-1/16	7/8	1.39	35
10643-10-6	5/8	7/8x14	-10	3/8	-6	2.51	64	7/8	1	1.48	38
10643-10-8	5/8	7/8x14	-10	1/2	-8	2.85	72	7/8	1	1.59	40
10643-10-10	5/8	7/8x14	-10	5/8	-10	2.93	74	15/16	1	1.49	38
10643-10-10C	5/8	7/8x14	-10	5/8	-10	2.93	74	15/16	1	1.49	38
10643-10-12	5/8	7/8x14	-10	3/4	-12	2.93	74	1-1/16	1	1.49	38



10643 Female JIC 37° - Swivel Straight

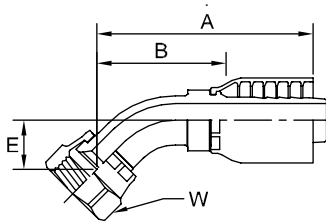
Note: "C" - Stainless Steel Fitting. Must be crimped with Karrykrimp 2, PHastkrimp or Parkkrimp 2.



Continued from the previous page.

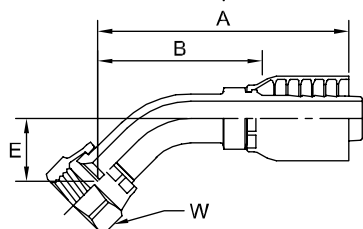
#	Thread			Hose		A		H		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm
	Part Number												
10643-12-8	3/4	1-1/16x12	-12	1/2	-8	2.78	71	1-1/16	1-1/4	1.52	39		
10643-12-10	3/4	1-1/16x12	-12	5/8	-10	3.10	79	1-1/16	1-1/4	1.66	42		
10643-12-12	3/4	1-1/16x12	-12	3/4	-12	3.17	81	1-1/16	1-1/4	1.91	49		
10643-12-12C	3/4	1-1/16x12	-12	3/4	-12	3.17	81	1-1/16	1-1/4	1.91	49		
10643-12-16	3/4	1-1/16x12	-12	1	-16	3.29	84	1-3/8	1-1/4	1.67	42		
10643-14-12	7/8	1-3/16x12	-14	3/4	-12	3.18	81	1-1/4	1-3/8	1.74	44		
10643-16-12	1	1-5/16x12	-16	3/4	-12	3.31	84	1-1/4	1-1/2	1.87	47		
10643-16-16	1	1-5/16x12	-16	1	-16	3.62	92	1-3/8	1-1/2	2.00	51		
10643-16-16C	1	1-5/16x12	-16	1	-16	3.62	92	1-3/8	1-1/2	2.00	51		
10643-20-16	1-1/4	1-5/8x12	-20	1	-16	3.81	97	1-5/8	2	2.19	56		
10643-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.94	100	1-7/8	2	2.25	57		
10643-20-20C	1-1/4	1-5/8x12	-20	1-1/4	-20	3.94	100	1-7/8	2	2.25	57		
10643-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	3.84	98	2-1/8	2-1/4	2.47	63		
10643-32-32	2	2-1/2x12	-32	2	-32	4.73	120	2-1/2	2-7/8	2.95	75		

13743 Female JIC 37° - Swivel 45° Elbow - Short Drop



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm
	Part Number												
13743-4-4	1/4	7/16x20	-4	1/4	-4	1.96	50	0.39	10	9/16	1.21	31	
13743-5-4	5/16	1/2x20	-5	1/4	-4	2.19	56	0.39	10	5/8	1.44	37	
13743-6-4	3/8	9/16x18	-6	1/4	-4	2.23	57	0.39	10	11/16	1.48	38	
13743-6-6	3/8	9/16x18	-6	3/8	-6	2.39	61	0.39	10	11/16	1.39	35	
13743-8-6	1/2	3/4x16	-8	3/8	-6	2.74	70	0.55	14	7/8	1.74	44	
13743-8-8	1/2	3/4x16	-8	1/2	-8	2.83	72	0.55	14	7/8	1.57	40	
13743-10-8	5/8	7/8x14	-10	1/2	-8	2.93	74	0.63	16	1	1.67	42	
13743-10-10	5/8	7/8x14	-10	5/8	-10	3.17	81	0.63	16	1	1.73	44	
13743-12-10	3/4	1-1/16x12	-12	5/8	-10	3.62	92	0.83	21	1-1/4	2.08	53	
13743-12-12	3/4	1-1/16x12	-12	3/4	-12	3.63	92	0.78	20	1-1/4	2.19	56	
13743-16-16	1	1-5/16x12	-16	1	-16	4.34	110	0.95	24	1-1/2	2.72	69	
13743-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.59	117	1.19	30	2	2.82	72	

1L743 Female JIC 37° - Swivel 45° Elbow - Medium Drop



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm
	Part Number												
1L743-6-6	3/8	9/16x18	-6	3/8	-6	2.66	62	0.59	15	11/16	1.63	41	
1L743-8-8	1/2	3/4x16	-8	1/2	-8	3.17	80	0.72	18	7/8	1.91	49	
1L743-12-12	3/4	1-1/16x12	-12	3/4	-12	4.23	107	1.06	27	1-1/4	2.79	71	
1L743-16-16	1	1-5/16x12	-16	1	-16	4.51	115	1.07	27	1-1/2	2.89	73	

Hose  
A

Fittings  
43 Series  
B

Parkkrimp  
Crimping  
Equipment  
C

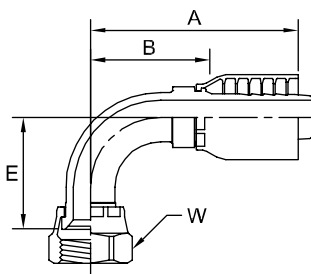
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

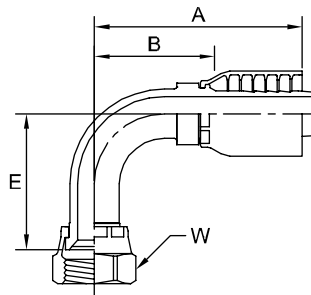
Appendices  
G

13943 Female JIC 37° - Swivel  
90° Elbow - Short Drop



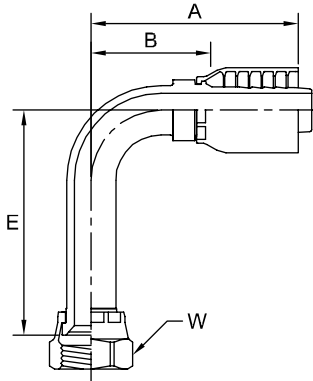
#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
13943-4-4	1/4	7/16x20	-4	1/4	-4	1.78	45	0.83	21	9/16	1.03	26	
13943-5-4	5/16	1/2x20	-5	1/4	-4	1.88	48	0.83	21	5/8	1.13	29	
13943-6-4	3/8	9/16x18	-6	1/4	-4	2.12	54	0.85	22	11/16	1.37	35	
13943-5-5	5/16	1/2x20	-5	5/16	-5	1.96	50	0.83	21	5/8	1.21	31	
13943-4-6	1/4	7/16x20	-4	3/8	-6	2.11	54	0.83	21	9/16	1.08	27	
13943-6-6	3/8	9/16x18	-6	3/8	-6	2.21	56	0.91	23	11/16	1.18	30	
13943-8-6	1/2	3/4x16	-8	3/8	-6	2.52	64	1.09	28	7/8	1.49	38	
13943-6-8	3/8	9/16x18	-6	1/2	-8	2.51	64	0.85	22	11/16	1.25	32	
13943-8-8	1/2	3/4x16	-8	1/2	-8	2.58	66	1.14	29	7/8	1.32	34	
13943-10-8	5/8	7/8x14	-10	1/2	-8	2.74	70	1.26	32	1	1.48	38	
13943-10-10	5/8	7/8x14	-10	5/8	-10	2.97	75	1.26	32	1	1.53	39	
13943-12-8	3/4	1-1/16x12	-12	1/2	-8	3.25	83	1.83	46	1-1/4	1.99	51	
13943-12-10	3/4	1-1/16x12	-12	5/8	-10	3.07	78	1.89	48	1-1/4	1.63	41	
13943-12-12	3/4	1-1/16x12	-12	3/4	-12	3.49	89	1.89	48	1-1/4	2.05	52	
13943-16-12	1	1-5/16x12	-16	3/4	-12	3.49	89	2.00	51	1-1/2	2.05	52	
13943-16-16	1	1-5/16x12	-16	1	-16	4.28	109	2.20	56	1-1/2	2.66	68	
13943-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.43	113	2.59	66	2	2.74	70	
13943-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	5.46	139	3.18	81	2-1/4	4.17	106	

1L943 Female JIC 37° - Swivel  
90° Elbow - Medium Drop



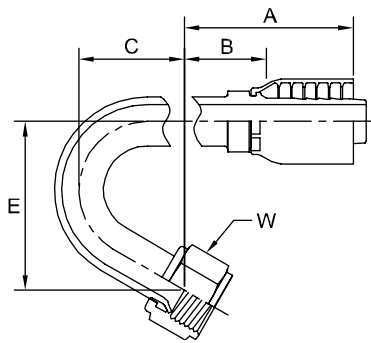
#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
1L943-4-4	1/4	7/16x20	-4	1/4	-4	1.84	47	0.88	22	9/16	1.09	28	
1L943-6-6	3/8	9/16x18	-6	3/8	-6	2.29	58	1.12	28	11/16	1.26	32	
1L943-8-6	1/2	3/4x16	-8	3/8	-6	2.51	64	1.38	35	7/8	1.48	38	
1L943-8-8	1/2	3/4x16	-8	1/2	-8	2.64	67	1.38	35	7/8	1.38	35	
1L943-10-8	5/8	7/8x14	-10	1/2	-8	3.25	83	1.75	44	1	1.99	51	
1L943-12-12	3/4	1-1/16x12	-12	3/4	-12	3.49	89	2.28	58	1-1/4	2.05	52	
1L943-16-16	1	1-5/16x12	-16	1	-16	4.44	113	2.50	64	1-1/2	2.82	72	

**14143 Female JIC 37° - Swivel  
90° Elbow - Long Drop**



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
14143-4-4	1/4	7/16x20	-4	1/4	-4	1.96	50	1.81	46	9/16	1.21	31	
14143-5-4	5/16	1/2x20	-5	1/4	-4	1.93	49	1.8	46	5/8	1.18	30	
14143-6-6	3/8	9/16x18	-6	3/8	-6	2.27	58	2.18	55	11/16	1.27	32	
14143-8-6	1/2	3/4x16	-8	3/8	-6	2.56	65	2.43	62	7/8	1.56	40	
14143-8-8	1/2	3/4x16	-8	1/2	-8	2.62	67	2.52	64	7/8	1.36	35	
14143-10-8	5/8	7/8x14	-10	1/2	-8	2.78	71	2.76	70	1	1.52	39	
14143-10-10	5/8	7/8x14	-10	5/8	-10	3.16	80	2.58	66	1	1.75	44	
14143-12-12	3/4	1-1/16x12	-12	3/4	-12	3.49	89	3.74	95	1-1/4	2.05	52	
14143-14-12	7/8	1-3/16x12	-14	3/4	-12	3.38	86	3.93	100	1-3/8	1.95	50	
14143-16-16	1	1-5/16x12	-16	1	-16	3.9	99	4.32	110	1-1/2	2.31	59	
14143-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.39	112	5.28	134	2	2.73	69	

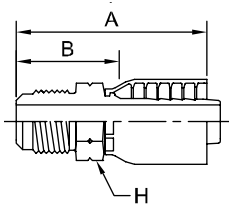
**14V43 Female JIC 37° - Swivel  
150° Elbow**



#	Thread			Hose		A		C		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	inch	mm	mm
14V43-6-4	3/8	9/16x18	-6	1/4	-4	2.89	73	1.36	11/16	1.97	50	11/16	2.16	55	

**10443 Male SAE 45° - Rigid - Straight**

Note: Notch in hex signifies SAE 45° flare.



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	mm	mm
10443-6-6	3/8	5/8x18	-6	3/8	-6	2.21	56	3/4	1.21	31	
10443-12-12	3/4	1-1/16x14	-12	3/4	-12	3.20	81	1-1/8	1.77	45	

Hose  
A

Fittings  
43 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

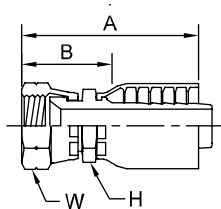
Adapters  
E

Accessories  
F

Appendices  
G

### 10843 Female SAE 45° - Swivel Straight

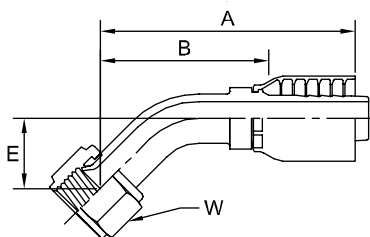
Note: Notch in nut for SAE 45° flare. See 10643 for additional sizes.



#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	inch	mm	mm	inch	mm	inch	mm	inch	inch	inch	mm
10843-6-4	3/8	5/8x18	-6	1/4	-4	2.11	54	3/4	3/4	1.36	35
10843-6-6	3/8	5/8x18	-6	3/8	-6	2.38	60	3/4	3/4	1.35	34
10843-12-12	3/4	1-1/16x14	-12	3/4	-12	3.17	81	1-1/16	1-1/4	1.73	44

### 17743 Female SAE 45° - Swivel 45° Elbow

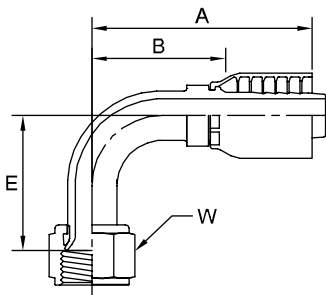
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		E	W	B		
	inch			inch		inch	mm	inch	mm	inch	mm	
	inch	mm	mm	inch	mm	inch	mm	inch	mm	inch	mm	
17743-4-6	1/4	7/16x20	-4	3/8	-6	2.28	58	0.33	8	9/16	1.25	32

### 17943 Female SAE 45° - Swivel 90° Elbow

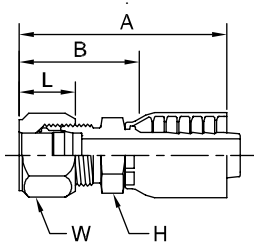
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		E	W	B		
	inch			inch		inch	mm	inch	mm	inch	mm	
	inch	mm	mm	inch	mm	inch	mm	inch	mm	inch	mm	
17943-6-6	3/8	5/8x18	-6	3/8	-6	2.13	54	0.85	22	3/4	1.13	29

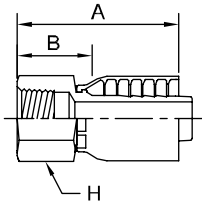
### 11143 Male Ferulok Flareless - Rigid Straight (24° Cone with Nut and Ferrule)

Note: The Parker Ferrule-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on-the-job repairs. For additional information see Ferrule-Fix installation instructions in Section G.



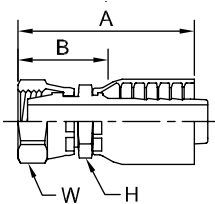
#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	inch	mm	mm	inch	mm	inch	mm	inch	inch	inch	mm
11143-4-4	1/4	7/16x20	-4	1/4	-4	2.13	54	9/16	9/16	1.40	36
11143-4-6	1/4	7/16x20	-4	3/8	-6	2.44	62	3/4	9/16	1.44	37
11143-5-4	5/16	1/2x20	-5	1/4	-4	2.13	54	9/16	5/8	1.40	36
11143-5-6	5/16	1/2x20	-5	3/8	-6	2.44	62	3/4	5/8	1.44	37
11143-6-6	3/8	9/16x18	-6	3/8	-6	2.50	64	3/4	11/16	1.50	38
11143-8-8	1/2	3/4x16	-8	1/2	-8	2.93	74	7/8	7/8	1.68	43
11143-10-8	5/8	7/8x14	-10	1/2	-8	3.07	78	15/16	1	1.82	46
11143-12-12	3/4	1-1/16x12	-12	3/4	-12	3.39	86	1-1/8	1-1/4	1.96	50
11143-16-16	1	1-5/16x12	-16	1	-16	3.80	97	1-3/8	1-1/2	2.18	55

**1GJ43 Female Grease Connection  
Special PTF Taper Thread - Rigid  
Straight - 1/2x27**



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
1GJ43-4-4	1/2x27	-4		1/4	-4	1.79	45	3/4		1.04	26
1GJ43-4-6	1/2x27	-4		3/8	-6	2.05	52	3/4		1.02	26

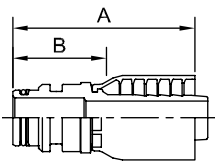
**11243 Female Ferulok Flareless  
Swivel - Straight (24° Cone)**



#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
11243-6-6	3/8	9/16x18	-6	3/8	-6	2.51	64	11/16	11/16	1.48	38
11243-8-6	1/2	3/4x16	-8	3/8	-6	2.67	68	7/8	7/8	1.64	42
11243-8-8	1/2	3/4x16	-8	1/2	-8	2.89	73	7/8	7/8	1.63	41

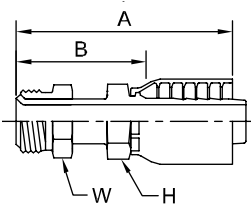
**1S043 Male Hydra-Clip - Rigid  
Straight**

Note: O-Ring not compatible with Phosphate Ester Fluids.



#	Thread			Hose		A		B	
	inch			inch		inch	mm	inch	mm
	Part Number								
1S043-4-4	1/4	-4		1/4	-4	2.32	59	1.57	40
1S043-6-6	3/8	-6		3/8	-6	2.57	65	1.54	39
1S043-8-8	1/2	-8		1/2	-8	2.83	72	1.57	40
1S043-12-12	3/4	-12		3/4	-12	3.05	77	1.61	41
1S043-16-16	1	-16		1	-16	3.46	88	1.84	47

**12843 Male Inverted SAE 45° - Swivel  
Straight**



#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
12843-4-4	1/4	7/16x24	-4	1/4	-4	2.32	59	9/16	7/16	1.57	40
12843-4-6	1/4	7/16x24	-4	3/8	-6	2.65	67	11/16	7/16	1.62	41
12843-5-4	5/16	1/2x20	-5	1/4	-4	2.60	66	9/16	1/2	1.85	47
12843-5-6	5/16	1/2x20	-5	3/8	-6	2.74	70	11/16	1/2	1.71	43
12843-6-6	3/8	5/8x18	-6	3/8	-6	2.86	73	11/16	5/8	1.83	46
12843-7-6	7/16	11/16x18	-7	3/8	-6	2.95	75	11/16	11/16	1.92	49
12843-8-8	1/2	3/4x18	-8	1/2	-8	3.11	79	13/16	3/4	1.85	47
12843-10-10	5/8	7/8x18	-10	5/8	-10	3.55	90	3/4	7/8	2.11	54

Hose

A

Fittings  
43 Series

B

Parkimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

E

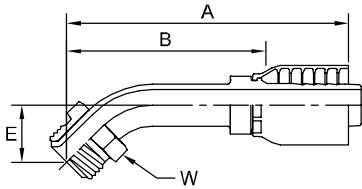
Accessories



F

Appendices

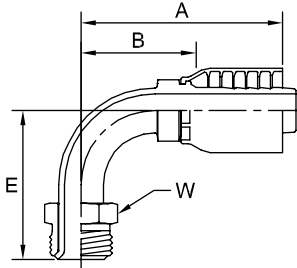
G



16743 Male Inverted SAE 45° - Swivel  
45° Elbow



#						A		E		W		B	
	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
16743-4-4	1/4	7/16x24	-4	1/4	-4	2.09	53	0.63	16	7/16	1.34	34	
16743-4-6	1/4	7/16x24	-4	3/8	-6	2.42	61	0.63	16	7/16	1.39	35	
16743-5-4	5/16	1/2x20	-5	1/4	-4	2.34	59	0.70	18	1/2	1.59	40	
16743-5-6	5/16	1/2x20	-5	3/8	-6	2.48	63	0.70	18	1/2	1.45	37	
16743-6-6	3/8	5/8x18	-6	3/8	-6	2.93	74	0.94	24	5/8	1.90	48	
16743-8-8	1/2	3/4x18	-8	1/2	-8	3.23	82	1.09	28	3/4	1.97	50	

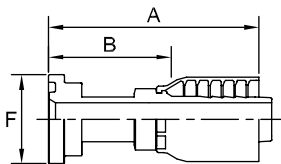
16943 Male Inverted SAE 45° - Swivel  
90° Elbow





#						A		E		W		B	
	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
16943-4-4	1/4	7/16x24	-4	1/4	-4	2.16	55	1.56	40	7/16	1.41	36	
16943-4-6	1/4	7/16x24	-4	3/8	-6	2.49	63	1.56	40	7/16	1.46	37	
16943-5-4	5/16	1/2x20	-5	1/4	-4	2.41	61	1.65	42	1/2	1.66	42	
16943-5-6	5/16	1/2x20	-5	3/8	-6	2.59	66	1.65	42	1/2	1.56	40	
16943-6-6	3/8	5/8x18	-6	3/8	-6	2.61	66	1.69	43	5/8	1.58	40	
16943-7-6	7/16	11/16x18	-7	3/8	-6	2.53	64	1.72	44	11/16	1.50	38	
16943-8-8	1/2	3/4x18	-8	1/2	-8	2.81	71	1.88	48	3/4	1.55	39	

11543 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L

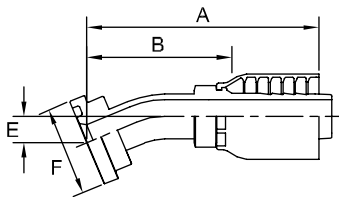
Note: Flange kits and O-Rings listed in Section F.



#					A		F		B	
	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	inch	mm
11543-8-8	1/2	-8	1/2	-8	3.48	88	1-3/16	2.22	56	
11543-10-10	5/8	-10	5/8	-10	3.78	96	1-11/32	2.34	59	
11543-12-8	3/4	-12	1/2	-8	2.46	63	1-1/2	1.20	31	
11543-12-12	3/4	-12	3/4	-12	3.54	90	1-1/2	2.10	53	
11543-16-12	1	-16	3/4	-12	2.74	70	1-3/4	1.3	33	
11543-16-16	1	-16	1	-16	4.25	108	1-3/4	2.63	67	
11543-20-16	1-1/4	-20	1	-16	3.19	81	2	1.57	40	
11543-20-20	1-1/4	-20	1-1/4	-20	4.7	119	2	3.01	76	
11543-24-20	1-1/2	-24	1-1/4	-20	3.22	82	2-3/8	1.53	39	
11543-24-24	1-1/2	-24	1-1/2	-24	4.59	117	2-3/8	3.22	82	
11543-24-32	1-1/2	-24	2	-32	5.65	144	2-7/8	3.87	98	
11543-32-20	2	-32	1-1/4	-20	4.29	109	2-13/16	2.60	66	
11543-32-24	2	-32	1-1/2	-24	3.14	80	2-7/8	1.77	45	
11543-32-32	2	-32	2	-32	4.99	127	2-13/16	3.21	82	

**11643 SAE Code 61 Flange Head  
22½° Elbow - ISO 12151-3 - E22M - L**

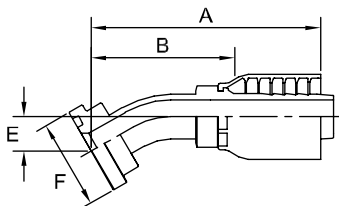
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
11643-12-12	3/4	-12	3/4	-12	3.90	99	0.44	11	1-1/2	2.47	63	
11643-16-12	1	-16	3/4	-12	3.89	99	0.44	11	1-3/4	2.46	62	
11643-16-16	1	-16	1	-16	4.25	108	0.44	11	1-3/4	2.66	68	
11643-20-16	1-1/4	-20	1	-16	4.25	108	0.44	11	2	2.66	68	
11643-20-20	1-1/4	-20	1-1/4	-20	4.65	118	0.50	13	2	3.00	76	
11643-24-20	1-1/2	-24	1-1/4	-20	4.66	118	0.51	13	2-3/8	3.01	76	

**12643 SAE Code 61 Flange Head  
30° Elbow - ISO 12151-3 - E30S - L  
(1 Piece: ISO 12151-3 - E30M - L)**

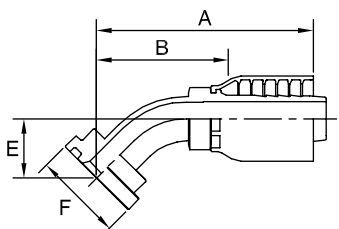
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
12643-12-12	3/4	-12	3/4	-12	3.90	99	0.59	15	1-1/2	2.46	62	
12643-16-16	1	-16	1	-16	4.38	111	0.62	16	1-3/4	2.76	70	
12643-20-16	1-1/4	-20	1	-16	4.38	111	0.62	16	2	2.76	70	
12643-20-20	1-1/4	-20	1-1/4	-20	4.39	112	0.72	18	2	2.70	69	

**11743 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO: 12151-3 - E45M - L)**

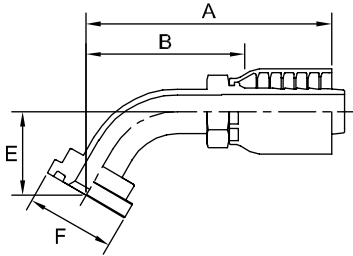
^ Must use Parkrimp 2 with Die Part No. 83C-A20H.  
^^ Can not use Karrykrimp or Karrykrimp 2 machines.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
11743-8-8	1/2	-8	1/2	-8	3.28	83	0.77	20	1-3/16	2.02	51	
11743-10-10	5/8	-10	5/8	-10	4.63	118	0.94	24	1-11/32	3.19	81	
11743-12-8	3/4	-12	1/2	-8	3.32	84	0.81	21	1-1/2	2.06	52	
11743-12-12	3/4	-12	3/4	-12	3.85	98	1.02	26	1-1/2	2.41	61	
11743-16-12	1	-16	3/4	-12	3.85	98	1.02	26	1-3/4	2.41	61	
11743-16-16	1	-16	1	-16	4.76	121	1.26	32	1-3/4	3.14	80	
11743-20-16	1-1/4	-20	1	-16	4.76	121	1.26	32	2	3.14	80	
11743-20-24	1-1/4	-20	1-1/2	-24	5.45	138	1.38	35	2	4.08	104	
11743-24-20^	1-1/2	-24	1-1/4	-20	5.07	129	1.20	30	2-3/8	3.37	86	
11743-20-20^^	1-1/4	-20	1-1/4	-20	5.61	142	1.50	38	2	3.92	100	
11743-24-24	1-1/2	-24	1-1/2	-24	5.50	140	1.43	36	2-3/8	4.13	105	
11743-32-24	2	-32	1-1/2	-24	5.49	139	1.42	36	2-13/16	4.12	105	
11743-32-32	2	-32	2	-32	7.23	184	1.98	50	2-13/16	5.45	138	

**12743 SAE Code 61 Flange Head  
60° Elbow - ISO 12151-3 - E60S - L  
(1 Piece: ISO 12151-3 - E60M - L)**

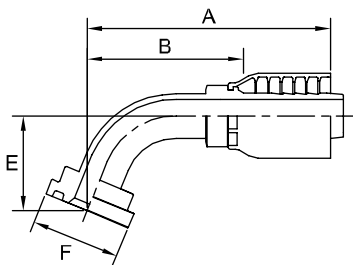
^^ Can not use Karrykrimp machine.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
12743-12-12	3/4	-12	3/4	-12	4.16	105	1.43	36	1-1/2	2.72	69	
12743-16-12	1	-16	3/4	-12	4.15	105	1.39	35	1-3/4	2.71	69	
12743-16-16	1	-16	1	-16	4.45	113	1.50	38	1-3/4	2.83	72	
12743-20-20^^	1-1/4	-20	1-1/4	-20	5.09	129	1.69	43	2	3.40	86	

**11843 SAE Code 61 Flange Head  
67½° Elbow - ISO 12151-3 - E67S - L  
(1 Piece: ISO 12151-3 - E67M - L)**

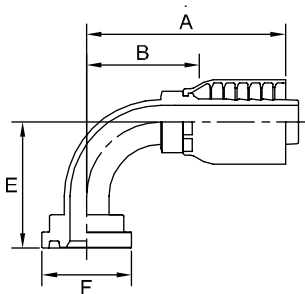
^^ Can not use Karrykrimp machine.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
11843-12-12	3/4	-12	3/4	-12	4.09	104	1.6	41	1-1/2	2.66	68	
11843-16-16^^	1	-16	1	-16	4.66	118	1.75	44	1-3/4	3.07	78	
11843-20-20^^	1-1/4	-20	1-1/4	-20	5.04	128	1.94	49	2	3.37	86	

**11943 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)**

^^ Can not use Karrykrimp machine.  
^^^ Can only be assembled with the Superkrimp or Parkrimp 2.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
11943-8-8	1/2	-8	1/2	-8	2.93	74	1.60	41	1-3/16	1.67	42	
11943-10-10	5/8	-10	5/8	-10	3.71	94	2.1	53	1-11/32	2.27	58	
11943-12-8	3/4	-12	1/2	-8	2.93	74	1.66	42	1-1/2	1.67	42	
11943-12-10	3/4	-12	5/8	-10	3.71	94	2.10	53	1-1/2	2.27	58	
11943-12-12	3/4	-12	3/4	-12	3.51	89	2.28	58	1-1/2	2.07	53	
11943-16-8	1	-16	1/2	-8	2.91	74	2.03	52	1-3/4	1.65	42	
11943-16-12	1	-16	3/4	-12	3.52	89	2.28	58	1-3/4	2.08	53	
11943-16-16	1	-16	1	-16	4.28	109	2.78	71	1-3/4	2.66	68	
11943-20-16	1-1/4	-20	1	-16	4.25	108	2.76	70	2	2.63	67	
11943-20-20^^	1-1/4	-20	1-1/4	-20	5.12	130	3.54	90	2	3.43	87	
11943-20-24	1-1/4	-20	1-1/2	-24	4.19	106	2.49	63	2	2.82	72	
11943-24-20^^	1-1/2	-24	1-1/4	-20	5.09	129	3.54	90	2-3/8	3.40	86	
11943-24-24	1-1/2	-24	1-1/2	-24	5.50	140	3.11	79	2-3/8	4.13	105	
11943-32-24	2	-32	1-1/2	-24	5.48	139	3.1	79	2-13/16	4.11	104	
11943-32-32	2	-32	2	-32	6.75	171	4.48	114	2-13/16	4.97	126	



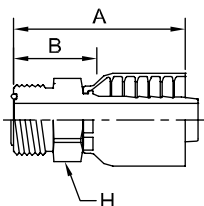
**1J043 Male Seal-Lok® - Rigid  
Straight (with O-Ring) - ISO 12151-1 S  
(1 Piece: ISO 12151-1 S)**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: 1J043 is 1JM43 box with nitrile o-ring.

Hose  
**A**

Fittings  
43 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**



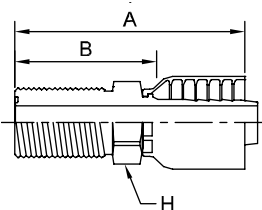
#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	inch	mm
1J043-4-4	1/4	9/16x18	-4	1/4	-4	1.73	44	5/8	0.98	25	
1J043-6-4	3/8	11/16x16	-6	1/4	-4	1.82	46	3/4	1.07	27	
1J043-6-6	3/8	11/16x16	-6	3/8	-6	2.08	53	3/4	1.05	27	
1J043-8-6	1/2	13/16x16	-8	3/8	-6	2.20	56	7/8	1.17	30	
1J043-8-8	1/2	13/16x16	-8	1/2	-8	2.42	61	7/8	1.17	30	
1J043-10-8	5/8	1x14	-10	1/2	-8	2.61	66	1-1/16	1.35	34	
1J043-10-10	5/8	1x14	-10	5/8	-10	2.73	69	1-1/16	1.34	34	
1J043-12-10	3/4	1-3/16x12	-12	5/8	-10	2.89	73	1-1/4	1.45	37	
1J043-12-12	3/4	1-3/16x12	-12	3/4	-12	2.90	74	1-1/4	1.46	37	
1J043-16-12	1	1-7/16x12	-16	3/4	-12	2.93	74	1-1/2	1.49	38	
1J043-16-16	1	1-7/16x12	-16	1	-16	3.29	84	1-1/2	1.67	42	
1J043-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	3.32	84	1-3/4	1.63	41	

**1JB43 Male Seal-Lok® Bulkhead w/o  
Locknut - Straight - ISO 8434-3 - BH  
(1 Piece: ISO 8434-3 BH)**

Note: These fittings are stocked minus the locknut (part no. WLNL). Locknuts are manufactured by the Tube Fittings Division of Parker Hannifin and must be ordered separately.  
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

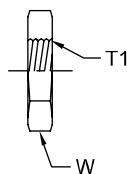


#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	inch	mm
1JB43-4-4	1/4	9/16x18	-4	1/4	-4	2.58	66	5/8	1.83	46	
1JB43-6-6	3/8	11/16x16	-6	3/8	-6	2.98	76	3/4	1.95	50	
1JB43-8-6	1/2	13/16x16	-8	3/8	-6	3.41	87	7/8	2.38	60	
1JB43-8-8	1/2	13/16x16	-8	1/2	-8	3.36	85	7/8	2.10	53	
1JB43-10-8	5/8	1x14	-10	1/2	-8	3.58	91	1-1/16	2.32	59	
1JB43-10-10	5/8	1x14	-10	5/8	-10	3.77	96	1-1/16	2.33	59	
1JB43-12-12	3/4	1-3/16x12	-12	3/4	-12	3.87	98	1-1/4	2.43	62	

**WLNL Seal-Lok® Bulkhead Locknut**

Note: Locknuts are manufactured by the Tube Fittings Division of Parker Hannifin and must be ordered separately.

Accessories  
**F**

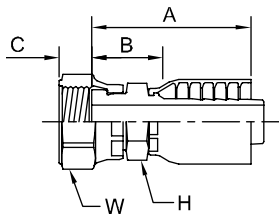


#	T1 Thread		W
4 WLNL-S	1/4	9/16x18	13/16
6 WLNL-S	3/8	11/16x16	1
8 WLNL-S	1/2	13/16x16	1-1/8
10 WLNL-S	5/8	1x14	1-5/16
12 WLNL-S	3/4	1-3/16x12	1-1/2

Appendices  
**G**

**1JC43 Female Seal-Lok® - Swivel  
Straight - Short - ISO 12151-1 - SWSA  
(1 Piece: ISO 12151-1 - SWSA)**

Note: Seal-Lok® torque table in Section G.  
 Note: Seal-Lok® O-Rings are listed in Section F.  
 Note: Fittings with an "SM" suffix have a metric hex.  
 Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.  
 Note: "C" - Stainless Steel Fitting. Must be crimped with Karrykrimp 2, PHastkrimp or Parkrimp 2.



#	Thread			Hose		A		C		H		W		B	
	inch			inch		inch		mm		inch		inch		inch	
	inch	mm	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1JC43-4-4	1/4	9/16x18	-4	1/4	-4	1.63	41	0.32	8	9/16	11/16	0.88	22		
1JC43-4-4C	1/4	9/16x18	-4	1/4	-4	1.63	41	0.32	8	9/16	11/16	0.88	22		
1JC43-4-4-SM	1/4	9/16x18	-4	1/4	-4	1.63	41	0.32	8	17 mm	17 mm	0.88	22		
1JC43-4-6	1/4	9/16x18	-4	3/8	-6	1.90	48	0.32	8	11/16	11/16	0.87	22		
1JC43-6-4	3/8	11/16x16	-6	1/4	-4	1.67	42	0.32	8	11/16	13/16	0.92	23		
1JC43-6-4-SM	3/8	11/16x16	-6	1/4	-4	1.67	42	0.32	8	17 mm	22 mm	0.92	23		
1JC43-6-5	3/8	11/16x16	-6	5/16	-5	1.65	42	0.32	8	11/16	13/16	0.90	23		
1JC43-6-6	3/8	11/16x16	-6	3/8	-6	1.94	49	0.32	8	11/16	13/16	0.91	23		
1JC43-6-6C	3/8	11/16x16	-6	3/8	-6	1.94	49	0.32	8	11/16	13/16	0.91	23		
1JC43-6-6-SM	3/8	11/16x16	-6	3/8	-6	1.94	49	0.32	8	19 mm	22 mm	0.91	23		
1JC43-8-6	1/2	13/16x16	-8	3/8	-6	2.00	51	0.43	11	13/16	15/16	0.97	25		
1JC43-8-6-SM	1/2	13/16x16	-8	3/8	-6	2.00	51	0.43	11	19 mm	24 mm	0.97	25		
1JC43-8-8	1/2	13/16x16	-8	1/2	-8	2.22	56	0.43	11	13/16	15/16	0.96	24		
1JC43-8-8C	1/2	13/16x16	-8	1/2	-8	2.22	56	0.43	11	13/16	15/16	0.96	24		
1JC43-8-8-SM	1/2	13/16x16	-8	1/2	-8	2.22	56	0.43	11	22 mm	24 mm	0.96	24		
1JC43-10-8	5/8	1x14	-10	1/2	-8	2.30	58	0.53	13	15/16	1-1/8	1.04	26		
1JC43-10-8-SM	5/8	1x14	-10	1/2	-8	2.30	58	0.53	13	24 mm	30 mm	1.04	26		
1JC43-10-10	5/8	1x14	-10	5/8	-10	2.49	63	0.53	13	15/16	1-1/8	1.05	27		
1JC43-10-10C	5/8	1x14	-10	5/8	-10	2.49	63	0.53	13	15/16	1-1/8	1.05	27		
1JC43-10-10-SM	5/8	1x14	-10	5/8	-10	2.49	63	0.53	13	24 mm	36 mm	1.05	27		
1JC43-12-8	3/4	1-3/16x12	-12	1/2	-8	2.48	63	0.57	14	1-1/8	1-3/8	1.22	31		
1JC43-12-10	3/4	1-3/16x12	-12	5/8	-10	2.67	68	0.57	14	1-1/8	1-3/8	1.23	31		
1JC43-12-10-SM	3/4	1-3/16x12	-12	5/8	-10	2.67	68	0.57	14	32 mm	36 mm	1.23	31		
1JC43-12-12	3/4	1-3/16x12	-12	3/4	-12	2.68	68	0.57	14	1-1/8	1-3/8	1.24	31		
1JC43-12-12C	3/4	1-3/16x12	-12	3/4	-12	2.68	68	0.57	14	1-1/8	1-3/8	1.24	31		
1JC43-12-12-SM	3/4	1-3/16x12	-12	3/4	-12	2.68	68	0.57	14	32 mm	36 mm	1.24	31		
1JC43-12-16	3/4	1-3/16x12	-12	1	-16	2.99	76	0.57	14	1-5/16	1-3/8	1.37	35		
1JC43-16-12	1	1-7/16x12	-16	3/4	-12	2.83	72	0.58	15	1-3/8	1-5/8	1.39	35		
1JC43-16-16	1	1-7/16x12	-16	1	-16	3.14	80	0.58	15	1-3/8	1-5/8	1.52	39		
1JC43-16-16C	1	1-7/16x12	-16	1	-16	3.14	80	0.58	15	1-3/8	1-5/8	1.52	39		
1JC43-20-16	1-1/4	1-11/16x12	-20	1	-16	3.08	78	0.59	15	1-5/8	1-7/8	1.46	37		
1JC43-20-20C	1-1/4	1-11/16x12	-20	1-1/4	-20	3.27	83	0.59	15	1-7/8	1-7/8	1.58	40		

Hose  
A  
Fittings 43 Series  
B  
Parkrimp Crimping Equipment  
C  
Hose Assembly Equipment  
D  
Adapters  
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Accessories  
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Appendices  
G

**1JS43 Female Seal-Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB  
(1 Piece: ISO 12151-1 - SWSB)**

Note: Seal-Lok® torque table in Section G.

Note: Seal-Lok® O-Rings are listed in Section F.

Hose  
**A**

Fittings  
43 Series  
**B**

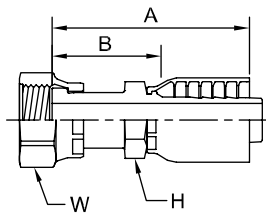
Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

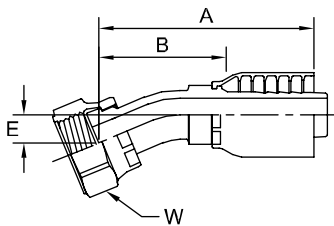


#	Thread			Hose		A		H		W		B	
	inch			inch		inch	mm	inch	inch	inch	inch	inch	mm
1JS43-4-4	1/4	9/16x18	-4	1/4	-4	2.07	53	9/16	11/16	1.32	34		
1JS43-4-6	1/4	9/16x18	-4	3/8	-6	2.21	56	11/16	11/16	1.18	30		
1JS43-6-4	3/8	11/16x16	-6	1/4	-4	2.14	54	9/16	13/16	1.39	35		
1JS43-6-6	3/8	11/16x16	-6	3/8	-6	2.28	58	11/16	13/16	1.25	32		
1JS43-6-8	3/8	11/16x16	-6	1/2	-8	2.50	64	13/16	13/16	1.24	31		
1JS43-8-4	1/2	13/16x16	-8	1/4	-4	2.26	57	11/16	15/16	1.51	38		
1JS43-8-6	1/2	13/16x16	-8	3/8	-6	2.53	64	11/16	15/16	1.50	38		
1JS43-8-8	1/2	13/16x16	-8	1/2	-8	2.65	67	13/16	15/16	1.39	35		
1JS43-8-10	1/2	13/16x16	-8	5/8	-10	2.82	72	15/16	15/16	1.38	35		
1JS43-10-6	5/8	1x14	-10	3/8	-6	2.63	67	11/16	1-1/8	1.62	41		
1JS43-10-8	5/8	1x14	-10	1/2	-8	2.89	73	13/16	1-1/8	1.63	41		
1JS43-10-10	5/8	1x14	-10	5/8	-10	3.07	78	15/16	1-1/8	1.66	42		
1JS43-10-12	5/8	1x14	-10	3/4	-12	3.08	78	1-1/16	1-1/8	1.64	42		
1JS43-12-8	3/4	1-3/16x12	-12	1/2	-8	2.90	74	15/16	1-3/8	1.64	42		
1JS43-12-10	3/4	1-3/16x12	-12	5/8	-10	3.19	81	1-1/8	1-3/8	1.75	44		
1JS43-12-12	3/4	1-3/16x12	-12	3/4	-12	3.31	84	1-1/8	1-3/8	1.87	47		
1JS43-12-16	3/4	1-3/16x12	-12	1	-16	3.53	90	1-5/16	1-3/8	1.91	49		
1JS43-16-12	1	1-7/16x12	-16	3/4	-12	3.37	86	1-3/8	1-5/8	1.93	49		
1JS43-16-16	1	1-7/16x12	-16	1	-16	3.62	92	1-3/8	1-5/8	2.00	51		
1JS43-16-20	1	1-7/16x12	-16	1-1/4	-20	3.77	96	1-3/4	1-5/8	2.08	53		
1JS43-20-16	1-1/4	1-11/16x12	-20	1	-16	3.64	92	1-3/8	1-7/8	2.02	51		
1JS43-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	3.77	96	1-3/4	1-7/8	2.08	53		
1JS43-24-20	1-1/2	2x12	-24	1-1/4	-20	3.88	99	1-3/4	2-1/4	2.23	57		
1JS43-24-24	1-1/2	2x12	-24	1-1/2	-24	3.91	99	1-7/8	2-1/4	2.54	65		

**1J643 Female Seal-Lok® - Swivel  
22½° Elbow - ISO 8434-3**

Note: Seal-Lok® torque table in Section G.

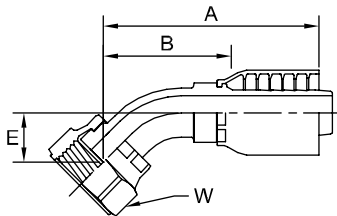
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
1J643-8-8	1/2	13/16x16	-8	1/2	-8	3.06	78	0.39	10	15/16	1.80	46	

**1J743 Female Seal-Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45  
(1 Piece: ISO 12151-1 - SWE45)**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with an "SM" suffix have metric hex.



#	⌘			○						⬡			
	Part Number	Thread		Hose		A		E		W		B	
		inch		inch		inch	mm	inch	mm	inch	mm	inch	mm
1J743-4-4	1/4	9/16x18	-4	1/4	-4	1.97	50	0.39	10	11/16	1.22	31	
1J743-4-4-SM	1/4	9/16x18	-4	1/4	-4	1.97	50	0.39	10	17 mm	1.22	31	
1J743-4-6	1/4	9/16x18	-4	3/8	-6	2.23	57	0.39	10	11/16	1.2	30	
1J743-6-4	3/8	11/16x16	-6	1/4	-4	2.08	53	0.43	11	13/16	1.33	34	
1J743-6-4-SM	3/8	11/16x16	-6	1/4	-4	2.08	53	0.43	11	22 mm	1.33	34	
1J743-6-5	3/8	11/16x16	-6	5/16	-5	2.37	60	0.43	11	13/16	1.62	41	
1J743-8-4	1/2	13/16x16	-8	1/4	-4	2.56	65	0.59	15	15/16	1.81	46	
1J743-6-6	3/8	11/16x16	-6	3/8	-6	2.34	59	0.43	11	13/16	1.31	33	
1J743-6-8	3/8	11/16x16	-6	1/2	-8	2.66	68	0.43	11	13/16	1.41	36	
1J743-8-6	1/2	13/16x16	-8	3/8	-6	2.53	64	0.59	15	15/16	1.50	38	
1J743-8-6-SM	1/2	13/16x16	-8	3/8	-6	2.53	64	0.59	15	24 mm	1.50	38	
1J743-8-8	1/2	13/16x16	-8	1/2	-8	2.83	72	0.59	15	15/16	1.57	40	
1J743-8-8-SM	1/2	13/16x16	-8	1/2	-8	2.83	72	0.59	15	24 mm	1.57	40	
1J743-10-8	5/8	1x14	-10	1/2	-8	2.93	74	0.63	16	1-1/8	1.67	42	
1J743-10-10	5/8	1x14	-10	5/8	-10	3.17	81	0.63	16	1-1/8	1.73	44	
1J743-10-12	5/8	1x14	-10	3/4	-12	3.36	85	0.65	16	1-1/8	1.93	49	
1J743-12-8	3/4	1-3/16x12	-12	1/2	-8	3.57	91	0.82	21	1-3/8	2.31	59	
1J743-12-10	3/4	1-3/16x12	-12	5/8	-10	3.62	92	0.83	21	1-3/8	2.18	55	
1J743-12-12	3/4	1-3/16x12	-12	3/4	-12	3.63	92	0.83	21	1-3/8	2.19	56	
1J743-12-12-SM	3/4	1-3/16x12	-12	3/4	-12	3.63	92	0.83	21	36 mm	2.19	56	
1J743-12-16	3/4	1-3/16x12	-12	1	-16	3.67	93	0.81	21	1-3/8	2.05	52	
1J743-16-12	1	1-7/16x12	-16	3/4	-12	4.02	102	0.94	24	1-5/8	2.59	66	
1J743-16-16	1	1-7/16x12	-16	1	-16	4.38	111	0.94	24	1-5/8	2.76	70	
1J743-16-20	1	1-7/16x12	-16	1-1/4	-20	4.59	117	0.94	24	1-5/8	2.94	75	
1J743-20-16	1-1/4	1-11/16x12	-20	1	-16	4.52	115	1	25	1-7/8	2.93	74	
1J743-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	4.78	121	1	25	1-7/8	3.09	78	
1J743-24-20	1-1/2	2x12	-24	1-1/4	-20	4.94	125	1.07	27	2-1/4	3.29	84	
1J743-24-24	1-1/2	2x12	-24	1-1/2	-24	4.70	119	1.07	27	2-1/4	3.33	85	

Hose  
A

Fittings  
43 Series  
B

Parkrimp  
Crimping  
Equipment  
C

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Assembly  
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F

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**1J943 Female Seal-Lok® - Swivel  
90° Elbow - Short Drop  
ISO 12151-1 - SWES90  
(1 Piece: ISO 12151-1 - SWES90)**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with an "SM" suffix have metric hex.

Hose  
**A**

Fittings  
43 Series  
**B**

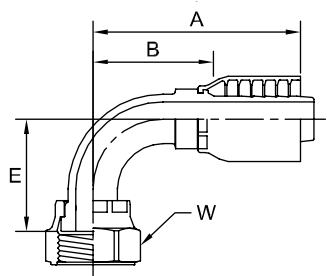
Parkimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

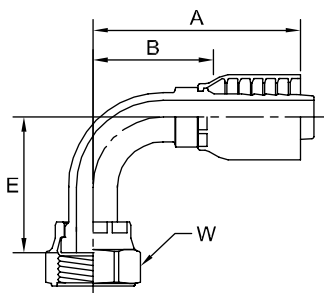
Appendices  
**G**



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J943-4-4	1/4	9/16x18	-4	1/4	-4	1.78	45	0.83	21	11/16	1.03	26	
1J943-4-6	1/4	9/16x18	-4	3/8	-6	2.05	52	0.83	21	11/16	1.02	26	
1J943-6-4	3/8	11/16x16	-6	1/4	-4	1.93	49	0.91	23	13/16	1.18	30	
1J943-6-5	3/8	11/16x16	-6	5/16	-5	2.25	57	0.91	23	13/16	1.50	38	
1J943-6-6	3/8	11/16x16	-6	3/8	-6	2.21	56	0.91	23	13/16	1.18	30	
1J943-6-8	3/8	11/16x16	-6	1/2	-8	2.53	64	0.91	23	13/16	1.27	32	
1J943-8-4	1/2	13/16x16	-8	1/4	-4	2.28	58	1.15	29	15/16	1.53	39	
1J943-8-6	1/2	13/16x16	-8	3/8	-6	2.28	58	1.14	29	15/16	1.25	32	
1J943-8-8	1/2	13/16x16	-8	1/2	-8	2.59	66	1.14	29	15/16	1.33	34	
1J943-8-8-SM	1/2	13/16x16	-8	1/2	-8	2.59	66	1.14	29	24 mm	1.33	34	
1J943-8-10	1/2	13/16x16	-8	5/8	-10	2.81	71	1.15	29	15/16	1.37	35	
1J943-10-8	5/8	1x14	-10	1/2	-8	2.74	70	1.26	32	1-1/8	1.48	38	
1J943-10-10	5/8	1x14	-10	5/8	-10	2.97	75	1.26	32	1-1/8	1.53	39	
1J943-10-10-SM	5/8	1x14	-10	5/8	-10	2.97	75	1.26	32	30 mm	1.53	39	
1J943-10-12	5/8	1x14	-10	3/4	-12	3.08	78	1.27	32	1-1/8	1.64	42	
1J943-12-8	3/4	1-3/16x12	-12	1/2	-8	3.21	82	1.89	48	1-3/8	1.95	50	
1J943-12-10	3/4	1-3/16x12	-12	5/8	-10	3.49	89	1.89	48	1-3/8	2.05	52	
1J943-12-12	3/4	1-3/16x12	-12	3/4	-12	3.06	78	1.89	48	1-3/8	2.05	52	
1J943-12-16	3/4	1-3/16x12	-12	1	-16	3.88	99	1.89	48	1-3/8	2.26	57	
1J943-16-12	1	1-7/16x12	-16	3/4	-12	4.06	103	2.22	56	1-5/8	2.62	67	
1J943-16-16	1	1-7/16x12	-16	1	-16	4.31	109	2.21	56	1-5/8	2.69	68	
1J943-16-20	1	1-7/16x12	-16	1-1/4	-20	4.56	116	2.21	56	1-5/8	2.87	73	
1J943-20-16	1-1/4	1-11/16x12	-20	1	-16	4.64	118	2.54	65	1-7/8	3.02	80	
1J943-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	4.88	124	2.51	64	1-7/8	3.19	81	
1J943-24-20	1-1/2	2x12	-24	1-1/4	-20	4.97	126	2.72	69	2-1/4	3.32	84	
1J943-24-24	1-1/2	2x12	-24	1-1/2	-24	5.50	140	2.68	68	2-1/4	4.13	105	

**1J543 Female Seal-Lok® - Swivel  
90° Elbow - Medium Drop  
ISO 12151-1 - SWEM90  
(1 Piece: ISO 12151-1 - SWEM90)**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with an "SM" suffix have metric hex.

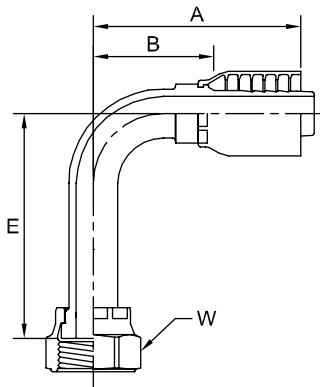


#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J543-4-4	1/4	9/16x18	-4	1/4	-4	2.07	53	1.26	32	11/16	1.32	34	
1J543-6-4	3/8	11/16x16	-6	1/4	-4	2.12	54	1.5	38	13/16	1.37	35	
1J543-6-6	3/8	11/16x16	-6	3/8	-6	2.40	61	1.5	38	13/16	1.37	35	
1J543-6-6-SM	3/8	11/16x16	-6	3/8	-6	2.40	61	1.5	38	22 mm	1.37	35	
1J543-8-6	1/2	13/16x16	-8	3/8	-6	2.48	63	1.61	41	15/16	1.45	37	
1J543-8-8	1/2	13/16x16	-8	1/2	-8	2.59	66	1.61	41	15/16	1.33	34	
1J543-10-8	5/8	1x14	-10	1/2	-8	2.74	70	1.85	47	1-1/8	1.48	38	
1J543-10-10	5/8	1x14	-10	5/8	-10	2.97	75	1.85	47	1-1/8	1.53	39	
1J543-10-12	5/8	1x14	-10	3/4	-12	3.12	79	1.88	48	1-1/8	1.68	43	
1J543-12-12	3/4	1-3/16x12	-12	3/4	-12	3.49	89	2.28	58	1-3/8	2.05	52	
1J543-16-16	1	1-7/16x12	-16	1	-16	4.86	123	2.78	71	1-5/8	3.27	83	
1J543-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.89	124	3.09	78	1-7/8	3.20	81	



**1J143 Female Seal-Lok® - Swivel  
90° Elbow - Long Drop  
ISO 12151-1 - SWEL90  
(1 Piece: ISO 12151-1 - SWEL90)**

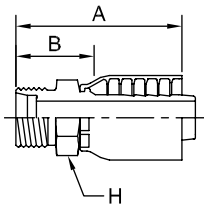
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with an "SM" suffix have metric hex.



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
1J143-4-4	1/4	9/16x18	-4	1/4	-4	2.02	51	1.81	46	11/16	1.27	32
1J143-6-4	3/8	11/16x16	-6	1/4	-4	2.26	57	2.29	58	13/16	1.51	38
1J143-6-6	3/8	11/16x16	-6	3/8	-6	2.39	61	2.13	54	13/16	1.36	35
1J143-8-6	1/2	13/16x16	-8	3/8	-6	2.45	62	2.52	64	15/16	1.42	36
1J143-8-8	1/2	13/16x16	-8	1/2	-8	2.59	66	2.52	64	15/16	1.33	34
1J143-8-8-SM	1/2	13/16x16	-8	1/2	-8	2.59	66	2.52	64	24 mm	1.33	34
1J143-10-8	5/8	1x14	-10	1/2	-8	2.74	70	2.79	71	1-1/8	1.48	38
1J143-10-10	5/8	1x14	-10	5/8	-10	2.97	75	2.76	70	1-1/8	1.53	39
1J143-10-12	5/8	1x14	-10	3/4	-12	3.15	80	2.76	70	1-1/8	1.73	44
1J143-12-12	3/4	1-3/16x12	-12	3/4	-12	3.49	89	3.78	96	1-3/8	2.05	52
1J143-16-16	1	1-7/16x12	-16	1	-16	4.28	109	4.49	114	1-5/8	2.66	68
1J143-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.84	123	5.09	129	1-7/8	3.15	80
1J143-24-20	1-1/2	2x12	-24	1-1/4	-20	4.77	121	5.54	141	2-1/4	3.12	79

**1D043 Male Metric L - Rigid Straight  
(24° Cone) - ISO 8434-1**

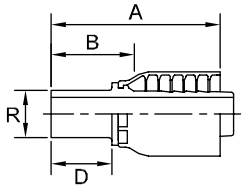
Note: Mates with EO "L" Series Fittings.



#	Thread			Hose		A		H	B	
	mm			inch		inch	mm	mm	inch	mm
1D043-6-4	6	M12x1,5	-6	1/4	-4	1.73	44	14	0.93	24
1D043-8-4	8	M14x1,5	-8	1/4	-4	1.61	41	14	0.93	24
1D043-10-5	10	M16x1,5	-10	5/16	-5	1.97	50	19	0.83	21
1D043-10-6	10	M16x1,5	-10	3/8	-6	1.97	50	19	0.83	21
1D043-12-6	12	M18x1,5	-12	3/8	-6	1.97	50	19	0.83	21
1D043-15-8	15	M22x1,5	-15	1/2	-8	2.28	58	22	0.94	24
1D043-18-10	18	M26x1,5	-18	5/8	-10	2.68	68	27	1.14	29
1D043-18-12	18	M26x1,5	-18	3/4	-12	2.68	68	27	1.14	29
1D043-22-12	22	M30x2	-22	3/4	-12	2.72	69	30	1.22	31
1D043-28-16	28	M36x2	-28	1	-16	3.11	79	36	1.30	33

11D43 Male Standpipe Metric L  
Rigid - Straight

Note: Mates with EO "L" Series Fittings.

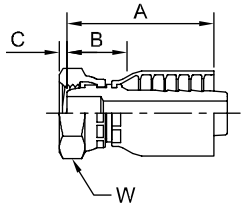


#	R		Hose		A		D		B	
	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm
11D43-6-4	6	-6	1/4	-4	2.03	52	0.87	22	1.28	33
11D43-8-4	8	-8	1/4	-4	2.03	52	0.87	22	1.28	33
11D43-10-5	10	-10	5/16	-5	2.36	60	0.91	23	1.45	37
11D43-10-6	10	-10	3/8	-6	2.28	58	0.91	23	1.14	29
11D43-12-6	12	-12	3/8	-6	2.36	60	0.91	23	1.36	35
11D43-15-8	15	-15	1/2	-8	2.56	65	0.98	25	1.22	31
11D43-18-10	18	-18	5/8	-10	2.99	76	1.02	26	1.48	38
11D43-18-12	18	-18	3/4	-12	2.80	71	1.02	26	1.22	31
11D43-22-12	22	-22	3/4	-12	2.87	73	1.10	28	1.26	32
11D43-28-16	28	-28	1	-16	3.31	84	1.18	30	1.46	37

1C343 Female Metric L - Swivel  
Straight (Ball Nose)

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.

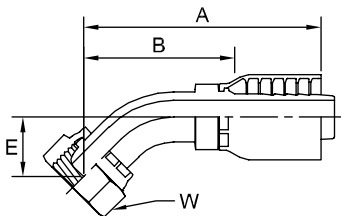
Note: Mates with EO "L" Series Fittings.



#	Thread		Hose		A		C		W	B		
	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm		
1C343-6-4	6	M12x1,5	-6	1/4	-4	1.75	44	0.09	2	14	1.16	29
1C343-8-4	8	M14x1,5	-8	1/4	-4	1.77	45	0.11	3	17	1.16	29
1C343-10-5	10	M16x1,5	-10	5/16	-5	2.01	51	0.06	2	19	1.20	30
1C343-10-6	10	M16x1,5	-10	3/8	-6	2.06	52	0.06	2	19	1.10	28
1C343-12-5	12	M18x1,5	-12	5/16	-5	1.87	47	0.10	3	22	0.70	18
1C343-12-6	12	M18x1,5	-12	3/8	-6	2.23	57	0.10	3	22	1.18	30
1C343-15-8	15	M22x1,5	-15	1/2	-8	2.42	61	0.17	4	27	1.29	33
1C343-18-10	18	M26x1,5	-18	5/8	-10	2.65	67	0.10	3	32	1.23	31
1C343-18-12	18	M26x1,5	-18	3/4	-12	2.80	71	0.10	3	32	1.37	35
1C343-22-12	22	M30x2	-22	3/4	-12	2.87	73	0.18	5	36	1.42	36
1C343-28-16	28	M36x2	-28	1	-16	3.35	85	0.22	6	46	1.76	45

1C443 Female Metric L - Swivel  
45° Elbow (Ball Nose)

Note: Mates with EO "L" Series Fittings.



#	Thread		Hose		A		E		W	B		
	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm		
1C443-8-4	8	M14x1,5	-8	1/4	-4	2.40	61	0.59	15	17	1.50	38
1C443-10-5	10	M16x1,5	-10	5/16	-5	2.60	66	0.67	17	19	1.61	41
1C443-10-6	10	M16x1,5	-10	3/8	-6	2.76	70	0.67	17	19	1.61	41
1C443-12-6	12	M18x1,5	-12	3/8	-6	2.76	70	0.67	17	22	1.61	41
1C443-15-8	15	M22x1,5	-15	1/2	-8	3.35	85	0.79	20	27	1.97	50
1C443-18-10	18	M26x1,5	-18	5/8	-10	4.09	104	1.14	29	32	2.52	64
1C443-22-12	22	M30x2	-22	3/4	-12	3.78	96	0.91	23	36	2.20	56
1C443-28-16	28	M36x2	-28	1	-16	4.53	115	1.10	28	46	2.81	71

Hose  
A

Fittings  
43 Series  
B

Parkramp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

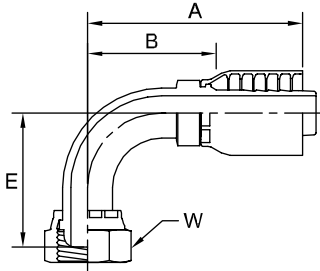
Adapters  
E

Accessories  
F

Appendices  
G

**1C543 Female Metric L - Swivel  
90° Elbow (Ball Nose)**

Note: Mates with EO "L" Series Fittings.

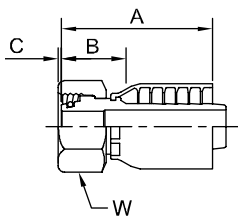


#	Thread			Hose		A		E		W	B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm
	Part Number											
1C543-6-4	6	M12x1,5	-6	1/4	-4	1.89	48	1.19	29	14	0.98	25
1C543-8-4	8	M14x1,5	-8	1/4	-4	2.05	52	1.10	28	17	1.18	30
1C543-10-5	10	M16x1,5	-10	5/16	-5	2.20	56	1.18	30	19	1.22	31
1C543-10-6	10	M16x1,5	-10	3/8	-6	2.40	61	1.18	30	19	1.40	36
1C543-12-6	12	M18x1,5	-12	3/8	-6	2.40	61	1.22	31	22	1.40	36
1C543-15-8	15	M22x1,5	-15	1/2	-8	2.95	75	1.57	40	27	1.57	40
1C543-18-10	18	M26x1,5	-18	5/8	-10	3.58	91	2.36	60	32	2.05	52
1C543-22-12	22	M30x2	-22	3/4	-12	3.58	91	1.97	50	36	2.00	51
1C543-28-16	28	M36x2	-28	1	-16	4.33	110	2.48	63	46	2.56	65

**1CA43 Female Metric L - Swivel  
Straight (24° Cone with O-Ring)  
ISO 12151-2 - SWS**

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.

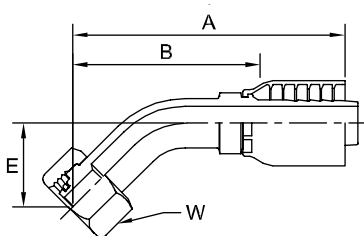
Note: Mates with EO "L" Series Fittings.



#	Thread			Hose		A		C		W	B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm
	Part Number											
1CA43-6-4	6	M12x1,5	-6	1/4	-4	1.81	46	-0.02	-1	14	1.06	27
1CA43-8-4	8	M14x1,5	-8	1/4	-4	1.68	43	-0.01	0	19	0.88	22
1CA43-10-5	10	M16x1,5	-10	5/16	-5	1.73	44	0.04	1	19	0.82	21
1CA43-12-6	12	M18x1,5	-12	3/8	-6	2.17	55	0.03	1	22	1.02	26
1CA43-15-8	15	M22x1,5	-15	1/2	-8	2.52	64	0.07	2	27	1.14	29
1CA43-18-10	18	M26x1,5	-18	5/8	-10	3.02	77	0.02	1	32	1.61	41
1CA43-18-12	18	M26x1,5	-18	3/4	-12	2.56	65	0.02	1	32	1.11	28
1CA43-22-12	22	M30x2	-22	3/4	-12	2.83	72	0.13	3	36	1.30	33
1CA43-28-16	28	M36x2	-28	1	-16	3.35	85	0.14	4	46	1.57	40
1CA43-35-20	35	M45x2	-35	1-1/4	-20	3.28	83	0.00	0	50	1.55	39

**1CE43 Female Metric L - Swivel  
45° Elbow (24° Cone with O-Ring)  
ISO 12151-2 - SWE45**

Note: Mates with EO "L" Series Fittings.

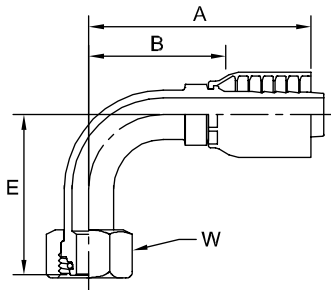


#	Thread			Hose		A		E		W	B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm
	Part Number											
1CE43-10-6	10	M16x1,5	-10	3/8	-6	3.43	87	0.73	19	19	2.44	62
1CE43-12-6	12	M18x1,5	-12	3/8	-6	2.87	73	0.87	22	22	1.73	44
1CE43-15-8	15	M22x1,5	-15	1/2	-8	3.39	86	0.87	22	27	2.00	51
1CE43-22-12	22	M30x2	-22	3/4	-12	3.82	97	0.98	25	36	2.28	58



**1CF43 Female Metric L - Swivel  
90° Elbow (24° Cone with O-Ring)  
ISO 12151-2 - SWE**

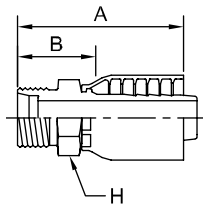
Note: Mates with EO "L" Series Fittings.



#	Thread			Hose		A		E		W	B	
	Part Number	mm		inch		inch	mm	inch	mm	mm	inch	mm
1CF43-10-5	10	M16x1,5	-10	5/16	-5	2.30	58	1.16	29	19	1.46	37
1CF43-10-6	10	M16x1,5	-10	3/8	-6	2.56	65	1.38	35	19	1.58	40
1CF43-12-6	12	M18x1,5	-12	3/8	-6	2.40	61	1.22	31	22	1.40	36
1CF43-15-8	15	M22x1,5	-15	1/2	-8	2.95	75	1.65	42	27	1.57	40
1CF43-18-10	18	M26x1,5	-18	5/8	-10	3.17	81	1.77	45	32	1.71	43
1CF43-22-12	22	M30x2	-22	3/4	-12	3.54	90	2.09	53	36	2.00	51
1CF43-35-20	35	M45x2	-35	1-1/4	-20	4.72	120	3.11	79	50	2.87	73

**1D243 Male Metric S - Rigid  
Straight (24° Cone) - ISO 8434-1**

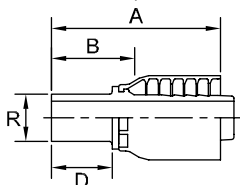
Note: Mates with EO "S" Series Fittings.



#	Thread			Hose		A		H	B	
	Part Number	mm		inch		inch	mm	mm	inch	mm
1D243-8-4	8	M16x1,5	-8	1/4	-4	1.73	44	17	0.87	22
1D243-10-4	10	M18x1,5	-10	1/4	-4	1.73	44	19	0.87	22
1D243-12-5	12	M20x1,5	-12	5/16	-5	2.20	56	22	1.29	33
1D243-12-6	12	M20x1,5	-12	3/8	-6	2.09	53	22	0.94	24
1D243-14-6	14	M22x1,5	-14	3/8	-6	2.17	55	22	0.98	25
1D243-16-8	16	M24x1,5	-16	1/2	-8	2.36	60	24	1.17	30
1D243-20-10	20	M30x2	-20	5/8	-10	2.95	75	30	1.44	37
1D243-25-12	25	M36x2	-25	3/4	-12	2.87	73	36	1.30	33
1D243-30-16	30	M42x2	-30	1	-16	3.39	86	46	1.54	39

**13D43 Male Standpipe Metric S  
Rigid - Straight**

Light Series 11D43-6-4, 11D43-8-4 AND 11D43-12-6 are used in place of their Heavy Series equivalent size and accept the EO Heavy "S" Series ferrules and nuts.



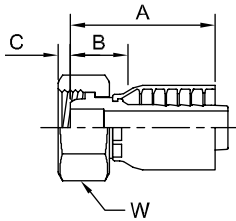
#	R		Hose		A		D		B	
	Part Number	mm	inch		inch	mm	inch	mm	inch	mm
11D43-6-4	6	-6	1/4	-4	2.03	52	0.87	22	1.28	33
11D43-8-4	8	-8	1/4	-4	2.03	52	0.87	22	1.28	33
13D43-10-4	10	-10	1/4	-4	2.13	54	1.02	26	1.26	32
13D43-12-5	12	-12	5/16	-5	2.52	64	1.02	26	1.61	41
11D43-12-6	12	-12	3/8	-6	2.36	60	0.91	23	1.36	35
13D43-14-6	14	-14	3/8	-6	2.52	64	1.14	29	1.38	35
13D43-16-8	16	-16	1/2	-8	2.68	68	1.18	30	1.42	36
13D43-20-10	20	-20	5/8	-10	3.39	86	1.42	36	1.88	48
13D43-20-12	20	-20	3/4	-12	3.19	81	1.42	36	1.57	40
13D43-25-12	25	-25	3/4	-12	3.35	85	1.57	40	1.73	44
13D43-30-16	30	-30	1	-16	3.82	97	1.73	44	2.01	51

Hose  
A  
Fittings  
43 Series  
B  
Parkrimp  
Crimping  
Equipment  
C  
Hose  
Assembly  
Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G

### 1C643 Female Metric S - Swivel Straight (Ball Nose)

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.

Note: Mates with EO "S" Series Fittings.

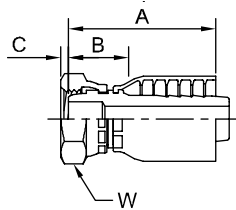


#	Thread		Hose		A		C		W	B		
	mm		inch		inch	mm	inch	mm	mm	inch	mm	
	Part Number	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	
1C643-8-4	8	M16x1,5	-8	1/4	-4	1.57	40	0.15	4	19	1.20	30
1C643-10-4	10	M18x1,5	-10	1/4	-4	1.63	41	0.10	3	22	1.20	30
1C643-12-5	12	M20x1,5	-12	5/16	-5	1.87	47	0.08	2	24	1.20	30
1C643-12-6	12	M20x1,5	-12	3/8	-6	1.76	45	0.08	2	24	1.32	34
1C643-12-8	12	M20x1,5	-12	1/2	-8	2.18	55	0.08	2	24	1.30	33
1C643-14-6	14	M22x1,5	-14	3/8	-6	1.94	49	0.17	4	27	1.32	34
1C643-16-8	16	M24x1,5	-16	1/2	-8	2.13	54	0.19	5	30	1.39	35
1C643-20-10	20	M30x2	-20	5/8	-10	2.38	60	0.21	5	36	1.39	35
1C643-20-12	20	M30x2	-20	3/4	-12	2.46	62	0.21	5	40	1.47	37
1C643-25-12	25	M36x2	-25	3/4	-12	2.48	63	0.28	7	46	1.56	40
1C643-30-16	30	M42x2	-30	1	-16	2.89	73	0.37	9	50	1.95	50

### 1C043 Female Metric - Swivel Straight (Ball Nose)

Note: Mates with DIN 7631 60° Cone.

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



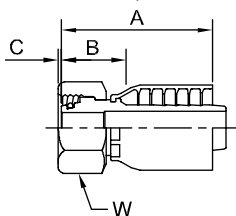
#	Thread		Hose		A		C		W	B		
	mm		inch		inch	mm	inch	mm	inch	mm		
	Part Number	mm	inch	mm	inch	mm	inch	mm	inch	mm		
1C043-20-12	20	M30x1,5	-20	3/4	-12	2.48	63	0.21	5	1.42	0.94	24
1C043-25-16	25	M38x1,5	-25	1	-16	2.99	76	0.28	7	1.81	1.14	29

### 1C943 Female Metric S - Swivel Straight (24° Cone with O-Ring) ISO 12151-2 - SWS

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.

Note: Mates with EO "S" Series Fittings.

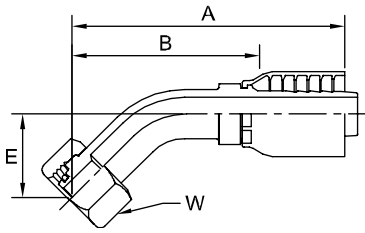
^ Must be assembled with Die Part number 83C-A20H.



#	Thread		Hose		A		C		W	B		
	mm		inch		inch	mm	inch	mm	mm	inch	mm	
	Part Number	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	
1C943-8-4	8	M16x1,5	-8	1/4	-4	1.64	42	0.01	0	19	1.18	30
1C943-10-4	10	M18x1,5	-10	1/4	-4	1.64	42	0.01	0	22	1.18	30
1C943-10-6	10	M18x1,5	-10	3/8	-6	1.97	50	0.01	0	22	0.83	21
1C943-12-5	12	M20x1,5	-12	5/16	-5	1.80	46	0.03	1	24	0.99	25
1C943-12-6	12	M20x1,5	-12	3/8	-6	1.99	51	0.03	1	24	1.04	26
1C943-14-6	14	M22x1,5	-14	3/8	-6	2.05	52	0.03	1	27	1.17	30
1C943-16-8	16	M24x1,5	-16	1/2	-8	2.33	59	0.09	2	30	1.15	29
1C943-20-10	20	M30x2	-20	5/8	-10	2.59	66	0.05	1	36	1.22	31
1C943-20-12	20	M30x2	-20	3/4	-12	2.59	66	0.05	1	36	1.22	31
1C943-25-12	25	M36x2	-25	3/4	-12	2.67	68	0.10	3	46	1.24	31
1C943-25-16	25	M36x2	-25	1	-16	3.07	78	0.10	3	46	1.30	33
1C943-30-16	30	M42x2	-30	1	-16	3.19	81	0.19	5	50	1.60	41
1C943-38-20^	38	M52x2	-38	1-1/4	-20	3.35	85	0.23	6	60	1.70	43

**10C43 Female Metric S - Swivel  
45° Elbow (24° Cone with O-Ring)  
ISO 12151-2 - SWE45**

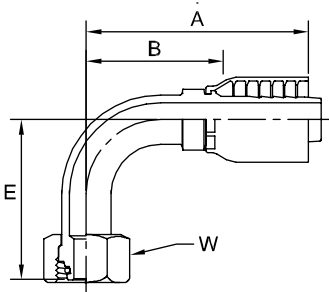
Note: Mates with EO "S" Series Fittings.  
^ Must be assembled with die part number 83C-A20H.



#	Thread		Hose		A		E		W	B		
	mm	mm	inch	inch	inch	mm	inch	mm	mm	inch	mm	
10C43-12-6	12	M20x1,5	-12	3/8	-6	3.28	83	0.87	22	24	2.28	58
10C43-16-8	16	M24x1,5	-16	1/2	-8	3.96	101	0.96	24	30	2.71	69
10C43-20-10	20	M30x2	-20	5/8	-10	4.78	121	1.12	28	36	3.37	86
10C43-25-12	25	M36x2	-25	3/4	-12	3.97	101	1.06	27	46	2.40	61
10C43-30-16	30	M42x2	-30	1	-16	4.65	118	1.22	31	50	2.87	73
10C43-38-20^	38	M52x2	-38	1-1/4	-20	4.96	126	1.30	33	60	1.89	48

**11C43 Female Metric S - Swivel  
90° Elbow (24° Cone with O-Ring)  
ISO 12151-2 - SWE**

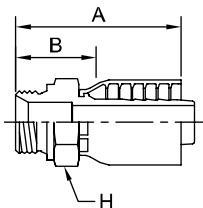
Note: Mates with EO "S" Series Fittings.  
^ Must be assembled with die part number 83C-A20H.



#	Thread		Hose		A		E		W	B		
	mm	mm	inch	inch	inch	mm	inch	mm	mm	inch	mm	
11C43-8-4	8	M16x1,5	-8	1/4	-4	1.83	46	1.26	32	19	1.41	36
11C43-10-4	10	M18x1,5	-10	1/4	-4	2.45	62	1.34	34	22	1.71	43
11C43-12-5	12	M20x1,5	-12	5/16	-5	2.30	58	1.22	31	24	1.51	38
11C43-12-6	12	M20x1,5	-12	3/8	-6	2.36	60	1.48	38	24	1.36	35
11C43-14-6	14	M22x1,5	-14	3/8	-6	2.35	60	1.48	38	27	1.35	34
11C43-16-8	16	M24x1,5	-16	1/2	-8	2.94	75	1.75	44	30	1.69	43
11C43-20-10	20	M30x2	-20	5/8	-10	3.45	88	2.17	55	36	2.04	52
11C43-25-12	25	M36x2	-25	3/4	-12	3.74	95	2.17	55	46	2.22	56
11C43-30-16	30	M42x2	-30	1	-16	4.45	113	2.64	67	50	2.64	67
11C43-38-20^	38	M52x2	-38	1-1/4	-20	5.67	144	2.87	73	60	2.99	76

**1D943 Male BSP Parallel Pipe - Rigid  
Straight (60° Cone) - ISO 228-1**

Note: When used in a port, a bonded seal must be used.  
See Section F.

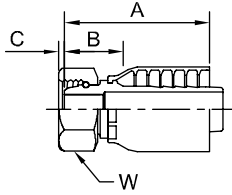


#	Thread		Hose		A		H	B	
	inch	mm	inch	inch	inch	mm	mm	inch	mm
1D943-4-4	1/4x19	-4	1/4	-4	1.77	45	19	0.91	23
1D943-6-5	3/8x19	-6	5/16	-5	2.13	54	22	1.22	31
1D943-6-6	3/8x19	-6	3/8	-6	2.13	54	22	1.22	31
1D943-8-8	1/2x14	-8	1/2	-8	2.44	62	27	1.10	28
1D943-12-12	3/4x14	-12	3/4	-12	2.76	70	32	1.18	30
1D943-16-16	1x11	-16	1	-16	3.23	82	41	1.38	35

Hose  
A  
Fittings  
43 Series  
B  
Parkrimp  
Crimping  
Equipment  
C  
Hose  
Assembly  
Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G

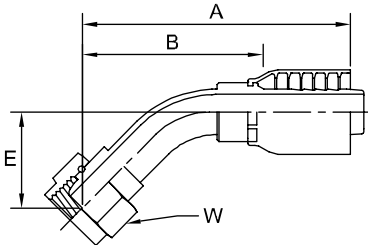
**19243 Female BSP Parallel Pipe  
Swivel - Straight (60° Cone)  
ISO 228-1**

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



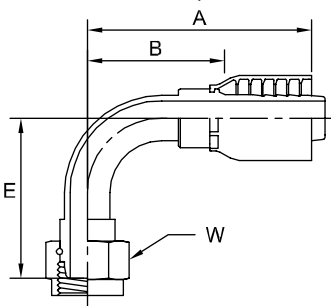
# Part Number	Thread		Hose		A		C		W	B	
	inch		inch		inch	mm	inch	mm	mm	inch	mm
19243-4-4	1/4x19	-4	1/4	-4	1.95	50	0.22	6	19	1.20	30
19243-6-6	3/8x19	-6	3/8	-6	2.35	60	0.26	7	22	1.32	34
19243-8-8	1/2x14	-8	1/2	-8	2.72	69	0.28	7	27	1.46	37
19243-10-8	5/8x14	-10	1/2	-8	2.80	71	0.37	9	30	1.54	39
19243-10-10	5/8x14	-10	5/8	-10	2.99	76	0.37	9	30	1.55	39
19243-12-10	3/4x14	-12	5/8	-10	3.11	79	0.35	9	36	1.67	42
19243-12-12	3/4x14	-12	3/4	-12	3.19	81	0.35	9	36	1.75	44
19243-16-16	1x11	-16	1	-16	3.67	93	0.44	11	41	2.05	52

**1B143 Female BSP Parallel Pipe  
Swivel - 45° Elbow (60° Cone)  
ISO 228-1**



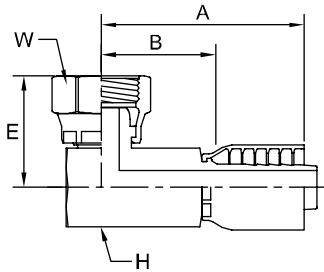
# Part Number	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	mm	inch	mm
1B143-4-4	1/4x19	-4	1/4	-4	2.44	62	0.63	16	19	1.54	39
1B143-6-6	3/8x19	-6	3/8	-6	3.25	83	0.79	20	22	2.25	57
1B143-8-8	1/2x14	-8	1/2	-8	3.35	85	0.79	20	27	1.97	50
1B143-10-10	5/8x14	-10	5/8	-10	4.03	102	0.85	22	30	2.62	67
1B143-12-10	3/4x14	-12	5/8	-10	4.09	104	1.14	29	32	2.52	64
1B143-12-12	3/4x14	-12	3/4	-12	4.02	102	1.14	29	32	2.44	62
1B143-16-16	1x11	-16	1	-16	4.53	115	1.14	29	41	2.76	70

**1B243 Female BSP Parallel Pipe  
Swivel - 90° Elbow (60° Cone)  
ISO 228-1**



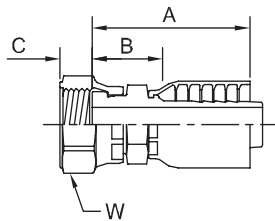
# Part Number	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	mm	inch	mm
1B243-4-4	1/4x19	-4	1/4	-4	1.83	46	1.12	28	19	1.08	27
1B243-6-6	3/8x19	-6	3/8	-6	2.32	59	1.46	37	22	1.32	34
1B243-8-8	1/2x14	-8	1/2	-8	2.95	75	1.57	40	27	1.57	40
1B243-10-8	5/8x14	-10	1/2	-8	2.91	74	1.57	40	30	1.54	39
1B243-10-10	5/8x14	-10	5/8	-10	3.13	80	1.57	40	30	1.72	44
1B243-12-10	3/4x14	-12	5/8	-10	3.62	92	2.32	59	32	2.05	52
1B243-12-12	3/4x14	-12	3/4	-12	3.58	91	2.32	59	32	2.00	51
1B243-16-16	1x11	-16	1	-16	4.33	110	2.48	63	41	2.56	65
1B243-20-20	1-1/4x11	-20	1-1/4	-20	4.72	120	2.99	76	50	2.87	73

**1B443 Female BSP Parallel Pipe Swivel - 90° Elbow - Block Type (60° Cone) - ISO 228-1**



#	Thread			Hose		A		E		H	W	B	
	inch			inch		inch	mm	inch	mm	mm	mm	inch	mm
1B443-4-4	1/4	1/4x19	-4	1/4	-4	2.40	61	1.14	29	17	19	1.40	36
1B443-6-6	3/8	3/8x19	-6	3/8	-6	2.76	70	1.02	26	19	22	1.42	36
1B443-8-8	1/2	1/2x14	-8	1/2	-8	3.19	81	1.02	26	22	27	1.57	40
1B443-12-12	3/4	3/4x14	-12	3/4	-12	3.30	84	1.30	33	23	32	0.98	25

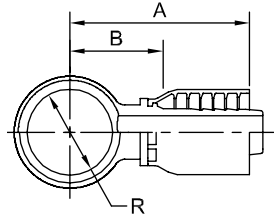
**1B543 Female BSP Parallel Pipe Swivel - Straight (Flat Seat) ISO 228-1**



Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.

#	Thread			Hose		A		C		W	B	
	inch			inch		inch	mm	inch	mm	mm	inch	mm
1B543-6-6	3/8x19	-6	3/8	-6	1.93	49	0.35	9	22	0.79	20	
1B543-8-6	1/2x14	-8	3/8	-6	1.89	48	0.43	11	27	0.75	19	
1B543-8-8	1/2x14	-8	1/2	-8	2.28	58	0.43	11	27	0.94	24	
1B543-12-12	3/4x14	-12	3/4	-12	2.28	58	0.33	8	32	0.94	24	

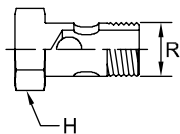
**14943 DIN Metric Banjo - Straight**



#	R		Hose		A		B	
	mm	inch	inch	mm	inch	mm	inch	mm
14943-12-4	12	-12	1/4	-4	1.85	47	0.98	25
14943-14-5	14	-14	5/16	-5	2.01	51	1.06	27
14943-16-6	16	-16	3/8	-6	2.28	58	1.14	29
14943-18-8	18	-18	1/2	-8	2.6	66	1.22	31
14943-22-10	22	-22	5/8	-10	2.91	74	1.38	35
14943-26-12	26	-26	3/4	-12	3.07	78	1.54	39

**AM Banjo Bolt w/ DIN Metric Thread**

Note: Two (2) copper washers per bolt must be ordered separately.



#	R Thread		H	Copper Washer
	mm	mm	mm	2
AM-03	8	M8x1	12	853009-8
AM-04	10	M10x1	14	853009-10
AM-06	12	M12x1.5	17	853009-12
AM-08	14	M14x1.5	19	853009-14
AM-10	16	M16x1.5	22	853009-16
AM-13	18	M18x1.5	24	853009-18
AM-16	22	M22x1.5	27	853009-22
AM-20	26	M26x1.5	32	853009-26
AM-30	30	M30x1.5	36	853009-30

Hose  
A

Fittings  
43 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

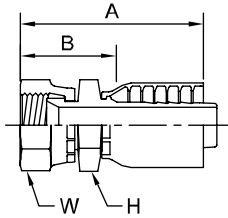
Adapters  
E

Accessories  
F

Appendices  
G

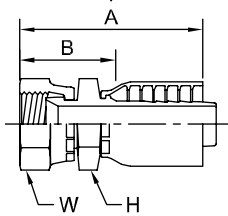
### 1MU43 Female Metric - Swivel Straight (30° Flare)

**Note:** Japanese Fittings - Female Swivel 30° Flare with Metric Threads. Some Japanese equipment use 30° flare fittings with metric threads. The combination of the 1MU43 and 1MU71 fittings in sizes up to -8 and the 1XU43 and 1XU71 in sizes -10 and larger, all 30° flared fitting size requirements are available.



#	Thread		Hose		A		H	W	B	
	mm		inch		inch	mm	mm	mm	inch	mm
	mm	-	inch	-	inch	mm	mm	mm	inch	mm
1MU43-4-4	M14x1.5	-4	1/4	-4	2.07	53	19	19	1.32	34
1MU43-6-4	M18x1.5	-6	1/4	-4	2.18	55	24	24	1.43	36
1MU43-6-6	M18x1.5	-6	3/8	-6	2.45	62	24	24	1.42	36
1MU43-8-8	M22x1.5	-8	1/2	-8	2.84	72	27	27	1.58	40

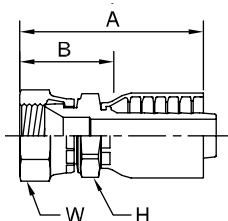
### 1FU43 Female BSP Parallel Pipe Swivel - Straight (30° Flare) ISO 228-1



#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	mm	mm	inch	mm
	inch	-	inch	-	inch	mm	mm	mm	inch	mm
1FU43-4-4	1/4x19	-4	1/4	-4	1.90	48	19	19	1.15	29
1FU43-6-6	3/8x19	-6	3/8	-6	2.32	59	22	22	1.29	33
1FU43-8-8	1/2x14	-8	1/2	-8	2.66	68	27	27	1.40	36
1FU43-12-12	3/4x14	-12	3/4	-12	3.06	78	36	36	1.62	41
1FU43-16-16	1x11	-16	1	-16	3.53	90	41	41	1.91	49
1FU43-20-20	1-1/4x11	-20	1-1/4	-20	3.87	98	50	50	2.18	55

### 1XU43 Female Metric - Swivel Straight (30° Flare)

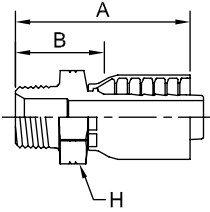
**Note:** Japanese Fittings - Female Swivel 30° Flare with Metric Threads. Some Japanese equipment use 30° flare fittings with metric threads. The combination of the 1MU43 and 1MU71 fittings in sizes up to -8 and the 1XU43 and 1XU71 in sizes -10 and larger, all 30° flared fitting size requirements are available.



#	Thread		Hose		A		H	W	B		
	mm		inch		inch	mm	mm	mm	inch	mm	
	mm	-	inch	-	inch	mm	mm	mm	inch	mm	
1XU43-10-10	5/8	M24x1.5	-10	5/8	-10	3.25	83	30	32	1.81	46
1XU43-12-12	3/4	M30x1.5	-12	3/4	-12	3.40	86	32	36	1.96	50
1XU43-16-16	1	M33x1.5	-16	1	-16	4.03	102	36	41	2.41	61
1XU43-20-20	1-1/4	M36x1.5	-20	1-1/4	-20	4.19	106	46	46	2.50	64
1XU43-24-24	1-1/2	M42x1.5	-24	1-1/2	-24	4.12	105	50	55	2.75	70

### 1UT43 Male BSP Taper Pipe - Rigid Straight (60° Cone)

Hose  
**A**

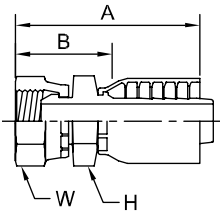


#	Thread		Hose		A		H	B	
	inch		inch		inch	mm	mm	inch	mm
	Part Number								
1UT43-4-4	1/4x19	-4	1/4	-4	1.92	49	19	1.17	30
1UT43-6-6	3/8x19	-6	3/8	-6	2.25	57	22	1.22	31
1UT43-8-8	1/2x14	-8	1/2	-8	2.68	68	27	1.42	36
1UT43-12-12	3/4x14	-12	3/4	-12	2.96	75	36	1.53	39
1UT43-16-16	1x11	-16	1	-16	3.48	88	41	1.86	47
1UT43-20-20	1-1/4x11	-20	1-1/4	-20	3.75	95	50	2.10	53

Fittings  
43 Series  
**B**

### 1GU43 Female BSP Parallel Pipe Swivel - Straight (60° Cone) ISO 228-1

Parkrimp  
Crimping  
Equipment  
**C**



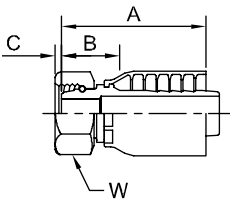
#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	mm	mm	inch	mm
	Part Number									
1GU43-4-4	1/4x19	-4	1/4	-4	2.08	53	19	19	1.33	34
1GU43-6-6	3/8x19	-6	3/8	-6	2.45	62	22	22	1.42	36
1GU43-8-8	1/2x14	-8	1/2	-8	2.81	71	27	27	1.56	40
1GU43-12-12	3/4x14	-12	3/4	-12	3.24	82	36	36	1.81	46
1GU43-16-16	1x11	-16	1	-16	3.74	95	41	41	2.12	54
1GU43-20-20	1-1/4x11	-20	1-1/4	-20	4.07	103	50	50	2.38	60

Hose  
Assembly  
Equipment  
**D**

### 1F443 Female French Gaz Series Swivel - Straight (Ball Nose)

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.


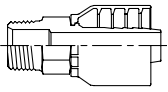

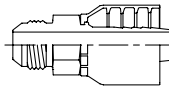
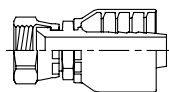
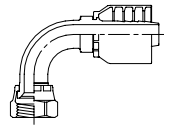

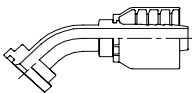
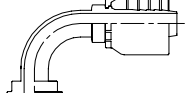

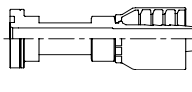
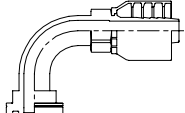

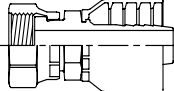
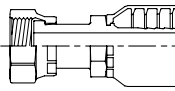
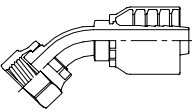
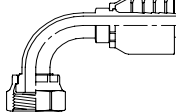
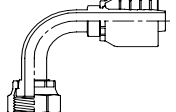
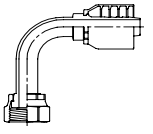

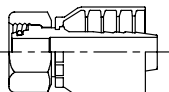

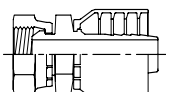

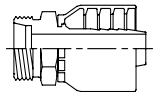
Adapters  
**E**



#	Thread		Hose		A		C		W	B		
	mm		inch		inch	mm	inch	mm	mm	inch	mm	
	Part Number											
1F443-27-12	27	M36x1,5	-27	3/4	-12	3	76	0.14	4	55	1.14	29

Accessories  
**F**

Appendices  
**G**

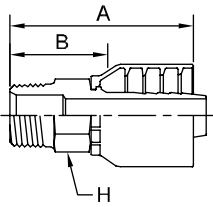
 <p><b>NPTF Pipe</b></p>	<p>10170 B-54</p>  <p>Male - Rigid - Straight</p>	 <p><b>JIC 37°</b></p>	<p>10370 B-54</p>  <p>Male - Rigid - Straight</p>	<p>10670 B-54</p>  <p>Female - Swivel Straight</p>	<p>13970 B-54</p>  <p>Female - Swivel 90° Elbow - Short</p>
 <p><b>Code 61 Flange</b></p>	<p>11770 B-55</p>  <p>45° Elbow</p>	<p>11970 B-55</p>  <p>90° Elbow</p>	 <p><b>Code 62 Flange</b></p>	<p>16A70 B-55</p>  <p>Straight</p>	<p>16N70 B-56</p>  <p>90° Elbow</p>
 <p><b>Seal-Lok®</b></p>	<p>1JC70 B-56</p>  <p>Female - Swivel Straight - Short</p>	<p>1JS70 B-56</p>  <p>Female - Swivel Straight - Long</p>	<p>1J770 B-57</p>  <p>Female - Swivel 45° Elbow</p>	<p>1J970 B-57</p>  <p>Female - Swivel 90° Elbow - Short</p>	<p>1J570 B-57</p>  <p>Female - Swivel 90° Elbow - Medium</p>
<p>1J170 B-57</p>  <p>Female - Swivel 90° Elbow - Long</p>	 <p><b>DIN "S" Series w/O-Ring</b></p>	<p>1C970 B-58</p>  <p>Female - Swivel Straight</p>	 <p><b>BSP 60° Cone</b></p>	<p>1GU70 B-58</p>  <p>Female - Swivel Straight</p>	 <p><b>French Gaz</b></p>
<p>1FG70 B-58</p>  <p>Male - Rigid - Straight</p>					

A	Hose
B	Fittings 70 Series
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices



Hose  
**A**

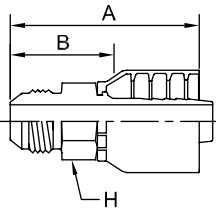
### 10170 Male NPTF Pipe - Rigid Straight



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
10170-6-6	3/8x18	-6	3/8	-6	2.37	60	3/4	1.47	37	
10170-8-8	1/2x14	-8	1/2	-8	2.84	72	7/8	1.40	36	

Fittings  
70 Series  
**B**

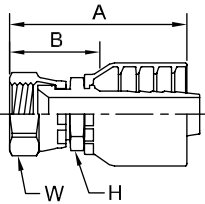
### 10370 Male JIC 37° - Rigid - Straight



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
10370-6-6	3/8	9/16x18	-6	3/8	-6	2.36	60	3/4	1.46	37
10370-8-8	1/2	3/4x16	-8	1/2	-8	2.68	68	7/8	1.47	37
10370-10-8	5/8	7/8x14	-10	1/2	-8	2.62	66	15/16	1.41	36
10370-12-12	3/4	1-16x12	-12	3/4	-12	3.17	80	1-1/8	1.81	46

Parkrimp  
Crimping  
Equipment  
**C**

### 10670 Female JIC 37° - Swivel Straight

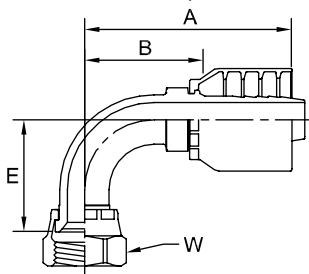


#	Thread		Hose		A		H		W		B	
	inch		inch		inch	mm	inch	inch	inch	inch	inch	mm
10670-6-6	3/8	9/16x18	-6	3/8	-6	2.29	58	11/16	11/16	1.39	35	
10670-8-8	1/2	3/4x16	-8	1/2	-8	2.62	67	13/16	7/8	1.41	36	
10670-10-8	5/8	7/8x14	-10	1/2	-8	2.85	72	7/8	1	1.64	42	
10670-10-10	5/8	7/8x14	-10	5/8	-10	2.84	72	15/16	1	1.59	40	

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

### 13970 Female JIC 37° - Swivel 90° Elbow - Short Drop



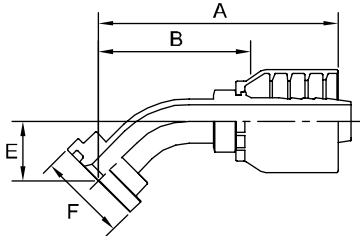
#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
13970-8-8	1/2	3/4x16	-8	1/2	-8	2.59	66	1.14	29	7/8	1.38	35

Accessories  
**F**

Appendices  
**G**

**11770 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO 12151-3 - E45M - L)**

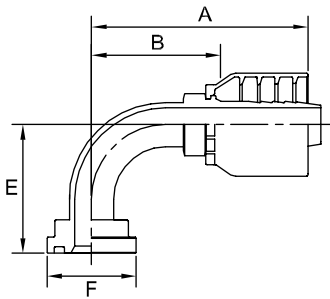
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
11770-12-10	3/4	-12	5/8	-10	3.37	86	0.76	19	1-1/2	2.12	54	

**11970 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)**

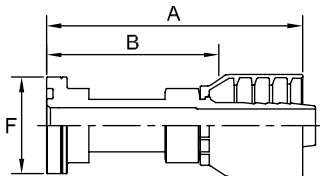
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
11970-8-8	1/2	-8	1/2	-8	2.93	74	1.60	41	1-3/16	1.72	44	
11970-12-10	3/4	-12	5/8	-10	3.54	90	2.02	51	1-1/2	2.29	58	

**16A70 SAE Code 62 Flange Head  
Straight - ISO 12151-3 - S - S**

Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	mm	
16A70-8-8	1/2	-8	1/2	-8	3.50	88	1-1/4	2.29	58	

Hose

**A**

---

Fittings  
70 Series

**B**

---

Parkrimp  
Crimping  
Equipment

**C**

---

Hose  
Assembly  
Equipment

**D**

---

Adapters

**E**

---

Accessories

**F**

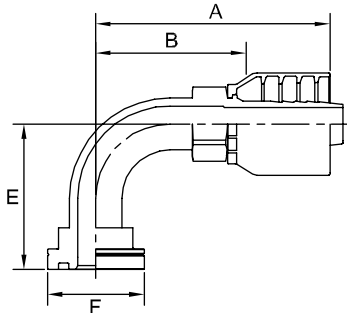
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Appendices

**G**

**16N70 SAE Code 62 Flange Head  
90° Elbow - ISO 12151-3 - E90S - S  
(1 Piece: ISO 12151-3 - E90M - S)**

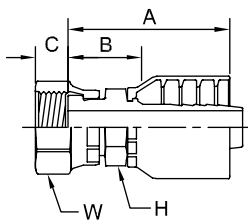
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number											
16N70-8-8	1/2	-8	1/2	-8	2.60	66	1.61	41	1-1/4	1.34	34	

**1JC70 Female Seal-Lok® - Swivel  
Straight - Short - ISO 12151-1 - SWSA**

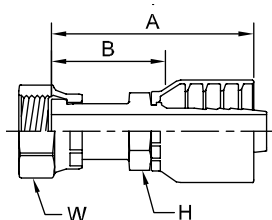
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: When measuring overall length to end of nut, B + C must be used to calculate cut-off allowance.



#	Thread		Hose		A		C		H	W	B		
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm	
	Part Number												
1JC70-6-6	3/8	11/16x16	-6	3/8	-6	1.94	49	0.34	9	11/16	13/16	1.04	26
1JC70-8-6	1/2	13/16x16	-8	3/8	-6	2.00	51	0.43	11	13/16	15/16	1.10	28
1JC70-8-8	1/2	13/16x16	-8	1/2	-8	2.22	56	0.43	11	13/16	15/16	1.01	26
1JC70-10-10	5/8	1x14	-10	5/8	-10	2.40	61	0.53	13	15/16	1-1/8	1.15	29

**1JS70 Female Seal-Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H	W	B		
	inch		inch		inch	mm	inch	inch	inch	mm	
	Part Number										
1JS70-6-6	3/8	11/16x16	-6	3/8	-6	2.28	58	11/16	13/16	1.38	35
1JS70-8-8	1/2	13/16x16	-8	1/2	-8	2.65	67	13/16	15/16	1.44	37
1JS70-12-10	3/4	1-3/16x12	-12	5/8	-10	3.10	79	1-1/8	1-3/8	1.85	47

Hose  
A

Fittings  
70 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

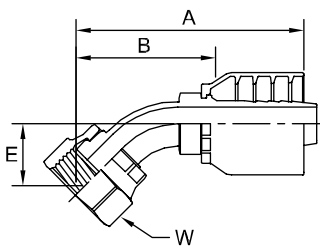
Accessories  
F

Appendices  
G



**1J770 Female Seal-Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45**

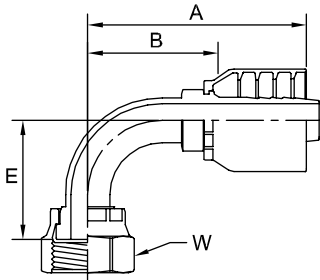
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J770-10-10	5/8	1x14	-10	5/8	-10	3.08	78	0.63	16	1-1/8	1.83	46	

**1J970 Female Seal-Lok® - Swivel  
90° Elbow - Short Drop  
ISO 12151-1 - SWES**

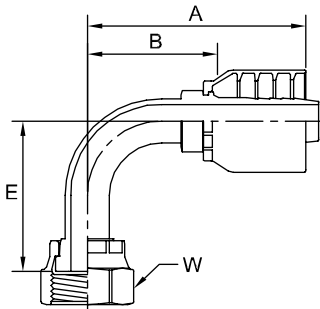
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J970-10-10	5/8	1x14	-10	5/8	-10	2.88	73	1.26	32	1-1/8	1.63	41	

**1J570 Female Seal-Lok® - Swivel  
90° Elbow - Medium Drop  
ISO 12151-1 - SWEM**

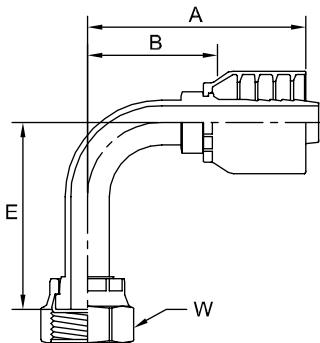
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J570-10-10	5/8	1x14	-10	5/8	-10	2.88	73	1.85	47	1-1/8	1.63	41	

**1J170 Female Seal-Lok® - Swivel  
90° Elbow - Long Drop  
ISO 12151-1 - SWEL**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.

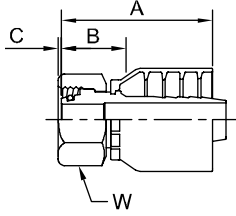


#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
1J170-10-10	5/8	1x14	-10	5/8	-10	2.88	73	2.76	70	1-1/8	1.63	41	

Hose  
**A**  
 Fittings  
 70 Series  
**B**  
 Parkrimp  
 Crimping  
 Equipment  
**C**  
 Hose  
 Assembly  
 Equipment  
**D**  
 Adapters  
**E**  
 Accessories  
**F**  
 Appendices  
**G**

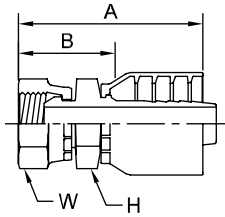
**1C970 Female Metric S - Swivel Straight (24° Cone with O-Ring)  
ISO 12151-2 - SWS - S**

Note: Mates with EO "S" Series Fittings.  
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



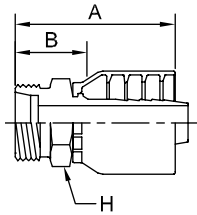
#	Thread		Hose		A		C		W	B		
	mm		inch		inch	mm	inch	mm	mm	inch	mm	
1C970-12-6	12	M20x1,5	-12	3/8	-6	2.03	52	0.03	1	24	1.13	29
1C970-14-6	14	M22x1,5	-14	3/8	-6	2.09	53	0.03	1	27	1.19	30
1C970-16-8	16	M24x1,5	-16	1/2	-8	2.31	59	0.09	2	30	1.10	28
1C970-20-10	20	M30x2	-20	5/8	-10	2.51	64	0.05	1	36	1.26	32

**1GU70 Female BSP Parallel Pipe Swivel - Straight (60° Cone)**



#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	mm	mm	inch	mm
1GU70-6-6	3/8x19	-6	3/8	-6	2.45	62	22	22	1.55	39
1GU70-8-8	1/2x14	-8	1/2	-8	2.82	72	27	27	1.61	41


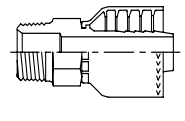
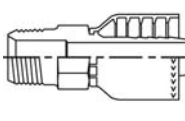

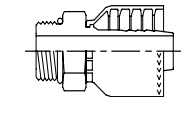

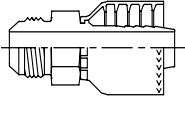
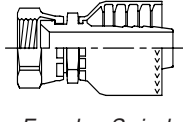
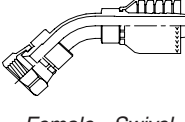
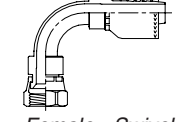
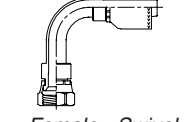
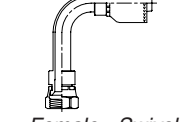

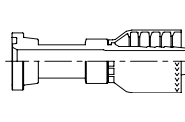
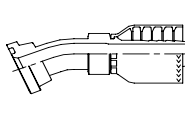
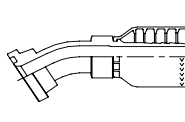
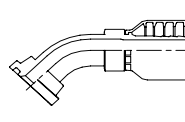
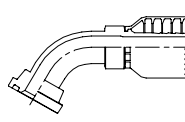
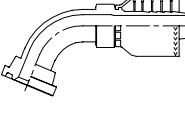
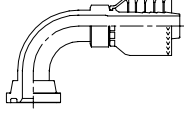
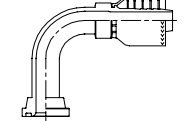
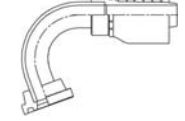

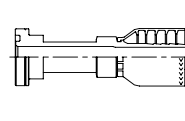
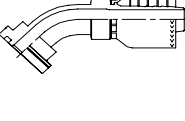
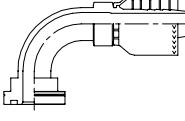

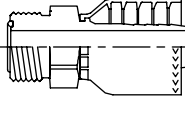
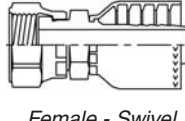
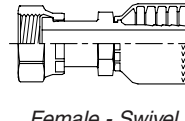
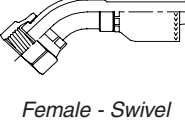
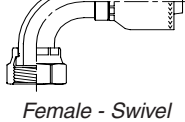
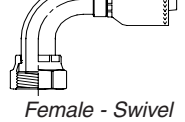
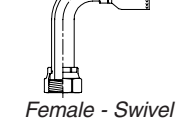

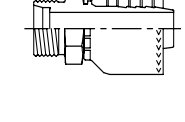

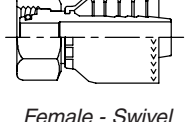

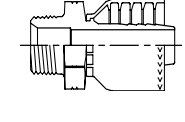
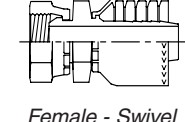

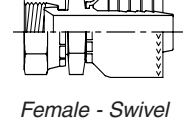
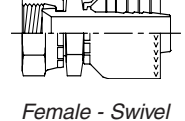
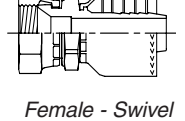
**1FG70 Male French Gaz Series - Rigid Straight (24° Cone)**



#	Thread		Hose		A		H	B		
	mm		inch		inch	mm	inch	inch	mm	
1FG70-21-10	21	M30x1,5	-21	5/8	-10	2.87	73	1.18	1.62	41

Hose  
A  
Fittings  
70 Series  
B  
Parkrimp  
Crimping  
Equipment  
C  
Hose  
Assembly  
Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G



 <b>NPTF Pipe</b>	10171 B-60  <i>Male - Rigid - Straight</i>	1AP71 B-60  <i>Male - Rigid - Straight</i>	 <b>Straight Thread O-Ring</b>	10571 B-60  <i>Male - Rigid - Straight</i>	 <b>JIC 37°</b>
10371 B-61  <i>Male - Rigid - Straight</i>	10671 B-61  <i>Female - Swivel Straight</i>	13771 B-62  <i>Female - Swivel 45° Elbow - Short</i>	13971 B-62  <i>Female - Swivel 90° Elbow - Short</i>	1L971 B-62  <i>Female - Swivel 90° Elbow - Medium</i>	14171 B-63  <i>Female - Swivel 90° Elbow - Long</i>
 <b>Code 61 Flange</b>	11571 B-63  <i>Straight</i>	11671 B-64  <i>22 1/2° Elbow</i>	12671 B-64  <i>30° Elbow</i>	11771 B-65  <i>45° Elbow</i>	12771 B-65  <i>60° Elbow</i>
11871 B-66  <i>67 1/2° Elbow</i>	11971 B-66  <i>90° Elbow</i>	18971 B-67  <i>90° Elbow - Long</i>	12U71 B-67  <i>110° Elbow</i>	 <b>Code 62 Flange</b>	16A71 B-67  <i>Straight</i>
16F71 B-68  <i>45° Elbow</i>	16N71 B-68  <i>90° Elbow</i>	 <b>Seal-Lok®</b>	1J071 B-68  <i>Male - Rigid - Straight</i>	1JC71 B-69  <i>Female - Swivel Straight - Short</i>	1JS71 B-69  <i>Female - Swivel Straight - Long</i>
1J771 B-69  <i>Female - Swivel 45° Elbow</i>	1J971 B-70  <i>Female - Swivel 90° Elbow - Short</i>	1J571 B-70  <i>Female - Swivel 90° Elbow - Medium</i>	1J171 B-70  <i>Female - Swivel 90° Elbow - Long</i>	 <b>DIN "S" Series</b>	1D271 B-71  <i>Male - Rigid - Straight</i>
 <b>DIN "S" Series w/O-Ring</b>	1C971 B-71  <i>Female - Swivel Straight</i>	 <b>BSP 60° Cone</b>	1UT71 B-71  <i>Male - Rigid - Straight</i>	1GU71 B-72  <i>Female - Swivel Straight</i>	 <b>BSP 30° Flare</b>
1FU71 B-72  <i>Female - Swivel Straight</i>	1MU71 B-72  <i>Female - Swivel Straight</i>	1XU71 B-73  <i>Female - Swivel Straight</i>			

Hose  
**A**

Fittings  
71 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

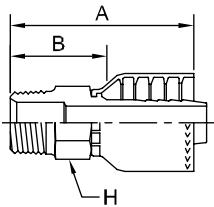
Accessories  
**F**

Appendices  
**G**

**10171 Male NPTF Pipe - Rigid Straight**

Hose  
**A**

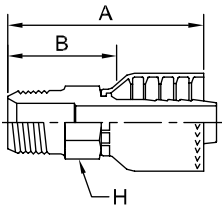
Fittings  
71 Series  
**B**



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	mm	
	Part Number										
10171-6-6	3/8x18	-6		3/8	-6	2.36	60	3/4	1.47	37	
10171-8-8	1/2x14	-8		1/2	-8	2.82	72	7/8	1.63	41	
10171-12-8	3/4x14	-12		1/2	-8	2.67	68	1-1/16	1.47	37	
10171-12-12	3/4x14	-12		3/4	-12	3.08	78	1-1/16	1.71	43	
10171-16-12	1x11-1/2	-16		3/4	-12	3.08	78	1-3/8	1.72	44	
10171-16-16	1x11-1/2	-16		1	-16	3.63	92	1-3/8	2.04	52	
10171-20-16	1-1/4x11-1/2	-20		1	-16	3.49	89	1-11/16	1.90	48	
10171-20-20	1-1/4x11-1/2	-20		1-1/4	-20	4.06	103	1-3/4	2.39	61	
10171-24-20	1-1/2x11-1/2	-24		1-1/4	-20	3.77	96	2	2.10	53	
10171-24-24	1-1/2x11-1/2	-24		1-1/2	-24	4.32	110	2	2.19	56	
10171-32-32	2x11-1/2	-32		2	-32	4.66	118	2-1/2	2.52	64	

**1AP71 Male API Pipe - Rigid Straight**

Parkrimp  
Crimping  
Equipment  
**C**

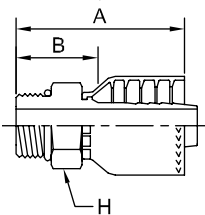


#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	mm	
	Part Number										
1AP71-32-32	2x11-1/2	-32		2	-32	6.31	160	2-1/2	3.54	90	

**10571 Male SAE Straight Thread with O-Ring - Rigid - Straight** Note: O-Ring not compatible with Phosphate Ester Fluids.

Adapters  
**E**

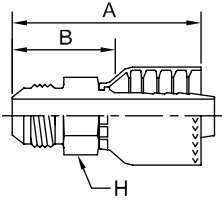
Accessories  
**F**



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	mm	
	Part Number										
10571-8-8	1/2	3/4x16	-8	1/2	-8	2.44	62	7/8	1.25	32	
10571-10-8	5/8	7/8x14	-10	1/2	-8	2.34	59	1	1.14	29	
10571-12-12	3/4	1-1/16x12	-12	3/4	-12	2.79	71	1-1/4	1.43	36	
10571-16-16	1	1-5/16x12	-16	1	-16	3.42	87	1-1/2	1.77	45	
10571-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.67	93	1-7/8	2.00	51	

Appendices  
**G**

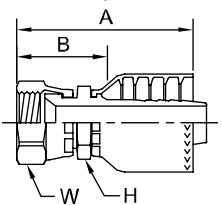
### 10371 Male JIC 37° - Rigid - Straight



#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	inch	inch	mm
10371-6-6	3/8	9/16x18	-6	3/8	-6	2.44	62	3/4	1.55	39
10371-8-6	1/2	3/4x16	-8	3/8	-6	2.29	58	7/8	1.40	36
10371-8-8	1/2	3/4x16	-8	1/2	-8	2.66	68	7/8	1.41	36
10371-10-8	5/8	7/8x14	-10	1/2	-8	2.60	66	15/16	1.41	36
10371-10-10	5/8	7/8x14	-10	5/8	-10	2.93	74	15/16	1.69	43
10371-12-12	3/4	1-1/16x12	-12	3/4	-12	3.17	80	1-1/8	1.81	46
10371-14-12	7/8	1-3/16x12	-14	3/4	-12	3.09	78	1-1/4	1.73	44
10371-16-12	1	1-5/16x12	-16	3/4	-12	3.02	77	1-3/8	1.66	42
10371-16-16	1	1-5/16x12	-16	1	-16	3.68	93	1-3/8	2.03	52
10371-20-16	1-1/4	1-5/8x12	-20	1	-16	3.43	87	1-7/8	1.84	47
10371-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.94	100	1-7/8	2.27	58

### 10671 Female JIC 37° - Swivel Straight

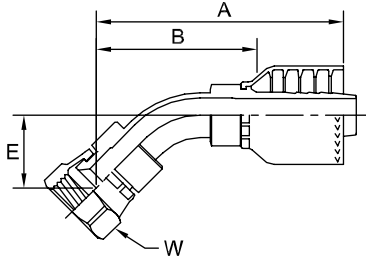
Note: ^ Must be assembled with Die Part No. 83C-D20H.  
"C" - Stainless Steel Fitting. Must be crimped with Karrykrimp 2, PHastkrimp or Parkrimp 2.



#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
10671-6-6	3/8	9/16x18	-6	3/8	-6	2.28	58	11/16	11/16	1.39	35
10671-8-6	1/2	3/4x16	-8	3/8	-6	2.47	63	11/16	7/8	1.58	40
10671-8-8	1/2	3/4x16	-8	1/2	-8	2.61	66	13/16	7/8	1.41	36
10671-8-8C	1/2	3/4x16	-8	1/2	-8	2.61	66	13/16	7/8	1.41	36
10671-10-8	5/8	7/8x14	-10	1/2	-8	2.84	72	7/8	1	1.64	42
10671-10-10	5/8	7/8x14	-10	5/8	-10	2.83	72	15/16	1	1.58	40
10671-10-12	5/8	7/8x14	-10	3/4	-12	2.92	74	1-1/16	1	1.54	39
10671-12-8	3/4	1-1/16x12	-12	1/2	-8	2.75	70	1-1/16	1-1/4	1.58	40
10671-12-10	3/4	1-1/16x12	-12	5/8	-10	3.00	76	1-1/16	1-1/4	1.75	44
10671-12-12	3/4	1-1/16x12	-12	3/4	-12	2.96	75	1-1/16	1-1/4	1.60	41
10671-12-12C	3/4	1-1/16x12	-12	3/4	-12	2.96	75	1-1/16	1-1/4	1.60	41
10671-12-16	3/4	1-1/16x12	-12	1	-16	3.37	86	1-3/8	1-1/4	1.67	42
10671-14-12	7/8	1-3/16x12	-14	3/4	-12	3.01	76	1-1/4	1-3/8	1.61	41
10671-16-12	1	1-5/16x12	-16	3/4	-12	3.28	83	1-1/4	1-1/2	1.92	49
10671-16-16	1	1-5/16x12	-16	1	-16	3.60	91	1-3/8	1-1/2	2.01	51
10671-16-16C	1	1-5/16x12	-16	1	-16	3.60	91	1-3/8	1-1/2	2.01	51
10671-20-16	1-1/4	1-5/8x12	-20	1	-16	3.80	97	1-5/8	2	2.21	56
10671-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.92	100	1-7/8	2	2.25	57
10671-20-20C	1-1/4	1-5/8x12	-20	1-1/4	-20	3.92	100	1-7/8	2	2.25	57
10671-24-20^	1-1/2	1-7/8x12	-24	1-1/4	-20	4.10	104	2-1/8	2-1/4	2.43	62
10671-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	4.69	119	2-1/8	2-1/4	2.50	64
10671-24-24C	1-1/2	1-7/8x12	-24	1-1/2	-24	4.69	119	2-1/8	2-1/4	2.50	64
10671-32-32	2	2-1/2x12	-32	2	-32	5.39	137	2-1/2	2-7/8	3.19	81

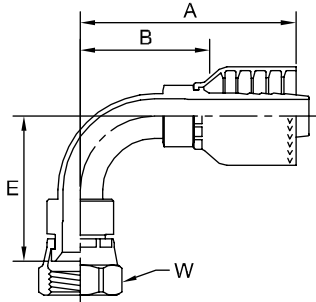


**13771 Female JIC 37° - Swivel  
45° Elbow - Short Drop**



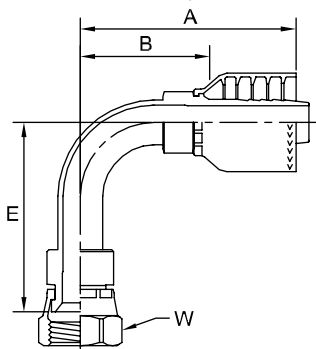
#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
13771-6-6	3/8	9/16x18	-6	3/8	-6	2.34	59	0.43	11	11/16	1.44	37	
13771-8-8	1/2	3/4x16	-8	1/2	-8	2.83	72	0.59	15	7/8	1.62	41	
13771-10-8	5/8	7/8x14	-10	1/2	-8	2.93	74	0.63	16	1	1.72	44	
13771-10-10	5/8	7/8x14	-10	5/8	-10	3.08	78	0.63	16	1	1.83	46	
13771-12-12	3/4	1-1/16x12	-12	3/4	-12	3.64	92	0.83	21	1-1/4	2.26	57	
13771-16-16	1	1-5/16x12	-16	1	-16	4.20	107	0.90	23	1-1/2	2.61	66	
13771-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	5.22	133	1.69	43	2	3.53	90	

**13971 Female JIC 37° - Swivel  
90° Elbow - Short Drop**



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
13971-6-6	3/8	9/16x18	-6	3/8	-6	2.21	56	0.91	23	11/16	1.31	33	
13971-8-8	1/2	3/4x16	-8	1/2	-8	2.59	66	1.14	29	7/8	1.38	35	
13971-10-8	5/8	7/8x14	-10	1/2	-8	2.74	70	1.26	32	1	1.53	39	
13971-12-12	3/4	1-1/16x12	-14	3/4	-12	3.50	89	1.89	48	1-1/4	2.11	54	
13971-16-16	1	1-5/16x12	-16	1	-16	4.36	111	2.20	56	1-1/2	2.58	66	
13971-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.78	121	3.33	85	2	3.11	79	
13971-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	6.33	161	3.98	101	2-1/4	4.14	105	

**1L971 Female JIC 37° - Swivel  
90° Elbow - Medium Drop**



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
1L971-10-8	5/8	7/8x14	-10	1/2	-8	3.24	82	1.75	44	13/16	1	2.04	52

Hose  
A

Fittings  
71 Series  
B

Parkrimp  
Crimping  
Equipment  
C

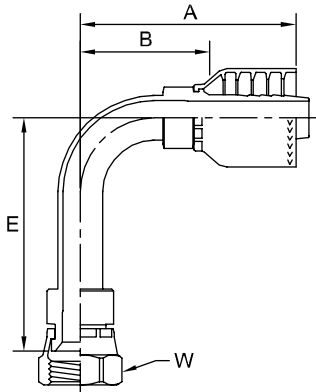
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

Appendices  
G

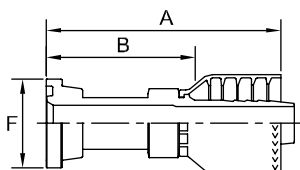
14171 Female JIC 37° - Swivel  
90° Elbow - Long Drop



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
14171-6-6	3/8	9/16x18	-6	3/8	-6	2.34	59	2.13	54	11/16	1.44	37
14171-8-8	1/2	3/4x16	-8	1/2	-8	2.58	66	2.52	64	7/8	1.37	35
14171-12-12	3/4	1-1/16x14	-12	3/4	-12	3.49	89	3.78	96	1-1/4	2.11	54
14171-16-16	1	1-5/16x12	-16	1	-16	4.36	111	4.32	110	1-1/2	2.58	66

11571 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L

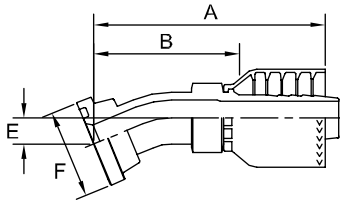
^ Must be assembled with Die Part No. 83C-D20H.



#	Flange		Hose		A		F	B	
	inch		inch		inch	mm	inch	inch	mm
11571-8-8	1/2	-8	1/2	-8	3.48	88	1-3/16	2.27	58
11571-10-10	5/8	-10	5/8	-10	3.69	94	1-11/32	2.44	62
11571-12-8	3/4	-12	1/2	-8	2.46	63	1-1/2	1.26	38
11571-12-10	3/4	-12	5/8	-10	2.61	66	1-1/2	1.36	35
11571-12-12	3/4	-12	3/4	-12	3.86	98	1-1/2	2.48	63
11571-16-12	1	-16	3/4	-12	2.74	70	1-3/4	1.36	35
11571-16-16	1	-16	1	-16	4.32	110	1-3/4	2.55	65
11571-20-12	1-1/4	-20	3/4	-12	3.90	99	2	2.54	65
11571-20-16	1-1/4	-20	1	-16	3.27	83	2	1.58	40
11571-20-20	1-1/4	-20	1-1/4	-20	4.70	119	2	3.01	76
11571-20-24	1-1/4	-20	1-1/2	-24	5.41	137	2	3.22	82
11571-24-16	1-1/2	-24	1	-16	3.41	87	2-3/8	1.63	41
11571-24-20^	1-1/2	-24	1-1/4	-20	4.08	104	2-3/8	2.39	61
11571-24-24	1-1/2	-24	1-1/2	-24	5.46	139	2-3/8	3.27	83
11571-24-32	1-1/2	-24	2	-32	5.65	144	2-3/8	3.45	88
11571-32-20	2	-32	1-1/4	-20	4.29	109	2-13/16	2.60	66
11571-32-24	2	-32	1-1/2	-24	4.01	102	2-13/16	1.82	46
11571-32-32	2	-32	2	-32	5.65	144	2-13/16	3.45	88
11571-40-32	2-1/2	-40	2	-32	4.51	115	3-5/16	2.31	59

**11671 SAE Code 61 Flange Head  
22½° Elbow - ISO 12151-3 - E22M - L**

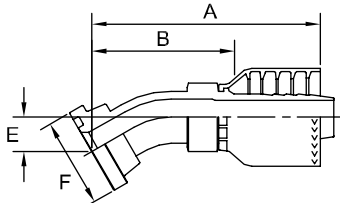
^ Must be assembled with Die Part No. 83C-D20H.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
11671-12-12	3/4	-12	3/4	-12	3.90	99	0.44	11	1-1/2	2.54	65	
11671-16-12	1	-16	3/4	-12	3.89	99	0.44	11	1-3/4	2.53	64	
11671-16-16	1	-16	1	-16	4.26	108	0.44	11	1-3/4	2.67	68	
11671-20-16	1-1/4	-20	1	-16	4.36	111	0.47	12	2	2.77	70	
11671-20-20	1-1/4	-20	1-1/4	-20	4.67	119	0.50	13	2	3.00	76	
11671-24-20^	1-1/2	-24	1-1/4	-20	4.68	119	0.53	13	2-3/8	3.01	76	
11671-24-24	1-1/2	-24	1-1/2	-24	5.88	149	0.63	16	2-3/8	3.69	94	
11671-32-32	2	-32	2	-32	7.37	187	0.88	22	2-13/16	5.22	133	
11671-40-32	2-1/2	-40	2	-32	7.36	187	0.88	22	3-5/16	5.21	132	

**12671 SAE Code 61 Flange Head  
30° Elbow - ISO 12151-3 - E30S - L  
(1 Piece: ISO 12151-3 - E30M - L)**

Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
12671-12-12	3/4	-12	3/4	-12	3.90	99	0.59	15	1-1/2	2.52	64	
12671-16-16	1	-16	1	-16	4.46	113	0.62	16	1-3/4	2.68	68	
12671-20-16	1-1/4	-20	1	-16	4.46	113	0.62	16	2	2.68	68	
12671-20-20	1-1/4	-20	1-1/4	-20	4.87	124	0.72	18	2	3.18	81	
12671-24-24	1-1/2	-24	1-1/2	-24	6.01	153	0.88	22	2-3/8	3.82	97	
12671-32-24	2	-32	1-1/2	-24	6.01	153	0.88	22	2-13/16	3.82	97	
12671-32-32	2	-32	2	-32	7.60	193	1.25	32	2-13/16	5.40	137	

Hose  
**A**

Fittings  
71 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

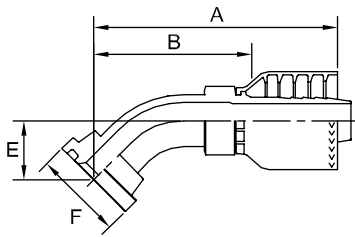
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**11771 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO 12151-3 - E45M - L)**

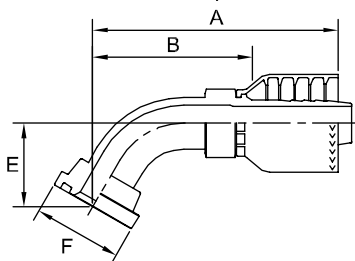
^ Must be assembled with Die Part No. 83C-D20H.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	Part Number											
11771-10-10	5/8	-10	5/8	-10	4.54	115	0.94	24	1.34	3.29	84	
11771-12-8	3/4	-12	1/2	-8	3.27	83	0.84	21	1-1/2	2.07	53	
11771-12-10	3/4	-12	5/8	-10	3.94	100	0.76	19	1-1/2	2.70	69	
11771-12-12	3/4	-12	3/4	-12	3.85	98	1.02	26	1-1/2	2.47	63	
11771-16-8	1	-16	1/2	-8	3.26	83	0.74	19	1-3/4	2.06	52	
11771-16-12	1	-16	3/4	-12	3.85	98	1.02	26	1-3/4	2.47	63	
11771-16-16	1	-16	1	-16	4.84	123	1.26	32	1-3/4	3.06	78	
11771-20-16	1-1/4	-20	1	-16	4.84	123	1.02	26	2	3.06	78	
11771-20-20	1-1/4	-20	1-1/4	-20	5.61	142	1.50	38	2	3.92	100	
11771-20-24	1-1/4	-20	1-1/2	-24	6.22	158	1.12	28	2	4.03	102	
11771-24-20^	1-1/2	-24	1-1/4	-20	5.06	129	1.22	31	2-3/8	3.37	86	
11771-24-24	1-1/2	-24	1-1/2	-24	6.22	158	1.41	36	2-3/8	4.03	102	
11771-32-24	2	-32	1-1/2	-24	6.19	157	1.41	36	2-13/16	4.00	102	
11771-32-32	2	-32	2	-32	7.94	202	2.03	52	2-13/16	5.74	146	
11771-40-32	2-1/2	-40	2	-32	7.83	199	2.03	52	3-5/16	5.62	143	

**12771 SAE Code 61 Flange Head  
60° Elbow - ISO 12151-3 - E60S - L  
(1 Piece: ISO 12151-3 - E60M - L)**

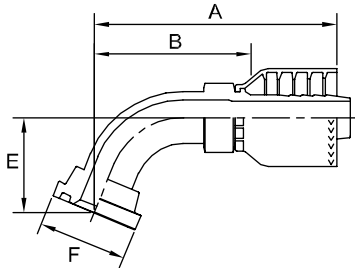
^ Must be assembled with Die Part No. 83C-D20H.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	Part Number											
12771-12-12	3/4	-12	3/4	-12	4.16	106	1.43	36	1-1/2	2.78	71	
12771-16-12	1	-16	3/4	-12	4.15	105	1.39	35	1-3/4	2.77	70	
12771-16-16	1	-16	1	-16	4.74	120	1.49	38	1-3/4	3.36	85	
12771-20-20	1-1/4	-20	1-1/4	-20	5.10	130	1.69	43	2	3.41	87	
12771-24-20^	1-1/2	-24	1-1/4	-20	5.12	130	1.70	43	2-3/8	3.43	87	
12771-24-24	1-1/2	-24	1-1/2	-24	6.25	159	2.03	52	2-3/8	4.06	103	
12771-32-32	2	-32	2	-32	7.93	201	2.88	73	2-13/16	5.73	146	

**11871 SAE Code 61 Flange Head  
67½° Elbow - ISO 12151-3 - E67S - L  
(1 Piece: ISO 12151-3 - E67M - L)**

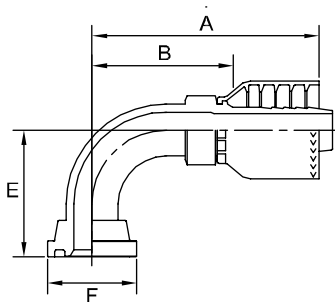
^ Must be assembled with Die Part No. 83C-D20H.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
11871-12-8	3/4	-12	1/2	-8	2.87	73	1.29	33	1-1/2	1.66	42	
11871-12-12	3/4	-12	3/4	-12	4.12	105	1.62	41	1-1/2	2.74	70	
11871-16-12	1	-16	3/4	-12	4.11	104	1.59	40	1-3/4	2.73	69	
11871-16-16	1	-16	1	-16	4.76	121	1.75	44	1-3/4	2.98	76	
11871-20-20	1-1/4	-20	1-1/4	-20	5.08	129	1.94	49	2	3.39	86	
11871-24-20^	1-1/2	-24	1-1/4	-20	5.07	129	1.95	50	2-3/8	3.38	86	
11871-24-24	1-1/2	-24	1-1/2	-24	6.20	157	2.31	59	2-3/8	4.01	102	
11871-32-24	2	-32	1-1/2	-24	6.20	157	2.31	59	2-13/16	4.01	102	
11871-32-32	2	-32	2	-32	7.89	200	3.31	84	2-13/16	5.69	145	

**11971 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)**

^ Must be assembled with Die Part No. 83C-D20H.  
^^ Must be assembled with Die Part No. 83C-D16H.  
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
11971-8-8	1/2	-8	1/2	-8	2.93	74	1.60	41	1-3/16	1.72	44	
11971-10-10	5/8	-10	5/8	-10	3.62	92	2.10	53	1-11/32	2.37	60	
11971-12-8	3/4	-12	1/2	-8	2.93	74	1.66	42	1-1/2	1.72	44	
11971-12-10	3/4	-12	5/8	-10	3.62	92	2.10	53	1-1/2	2.37	60	
11971-12-12	3/4	-12	3/4	-12	3.48	88	2.28	58	1-1/2	2.10	53	
11971-16-12	1	-16	3/4	-12	3.52	89	2.28	58	1-3/4	2.14	54	
11971-16-16	1	-16	1	-16	4.36	111	2.76	70	1-3/4	2.58	66	
11971-16-20	1	-16	1-1/4	-20	4.53	115	2.39	61	1-3/4	2.75	70	
11971-20-12	1-1/4	-20	3/4	-12	3.81	97	2.13	54	2	2.45	62	
11971-20-16	1-1/4	-20	1	-16	4.33	110	2.76	70	2	2.55	65	
11971-20-20	1-1/4	-20	1-1/4	-20	5.12	130	3.54	90	2	3.43	87	
11971-20-24	1-1/4	-20	1-1/2	-24	6.33	161	3.00	76	2	4.14	105	
11971-24-16^^	1-1/2	-24	1	-16	4.53	115	2.39	61	2-3/8	2.75	70	
11971-24-20^	1-1/2	-24	1-1/4	-20	5.09	129	3.54	90	2-3/8	3.40	86	
11971-24-24	1-1/2	-24	1-1/2	-24	6.34	161	4.09	104	2-3/8	4.15	105	
11971-24-32	1-1/2	-24	2	-32	6.07	154	3.10	79	2-3/8	3.87	98	
11971-32-24	2	-32	1-1/2	-24	5.84	148	3.12	79	2-13/16	3.65	93	
11971-32-32	2	-32	2	-32	8.98	228	5.43	138	2-13/16	5.15	131	
11971-40-32	2-1/2	-40	2	-32	7.43	189	4.50	114	3-5/16	5.23	133	

Hose  
A

Fittings  
71 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

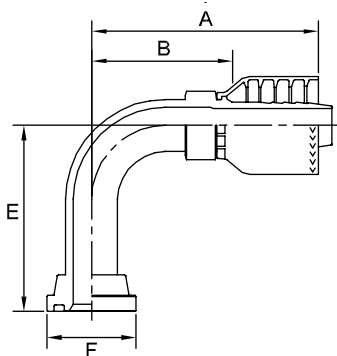
Adapters  
E

Accessories  
F

Appendices  
G

18971 SAE Code 61 Flange Head  
90° Elbow - Long Drop

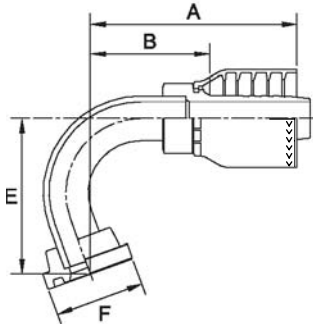
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	18971-12-12	3/4	-12	3/4	-12	3.49	89	3.03	77	1-1/2	2.11	54
18971-16-16	1	-16	1	-16	4.52	115	4.60	117	1-3/4	2.74	70	
18971-20-16	1-1/4	-20	1	-16	4.53	115	4.60	117	2	2.75	70	

12U71 SAE Code 61 Flange Head  
110° Elbow

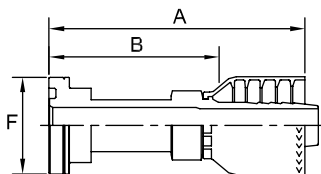
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	12U71-16-16	1	-16	1	-16	4.49	114	3.69	94	1-3/4	2.71	69

16A71 SAE Code 62 Flange Head  
Straight - ISO 12151-3 - S - S

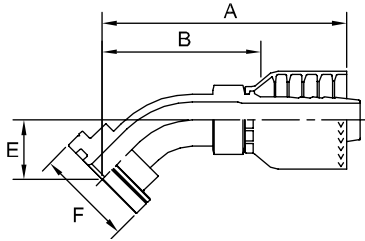
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	mm	
	16A71-12-12	3/4	-12	3/4	-12	4.31	109	1-5/8	2.93	74
16A71-16-12	1	-16	3/4	-12	3.10	79	1-7/8	1.72	44	
16A71-16-16	1	-16	1	-16	4.89	124	1-7/8	3.11	79	
16A71-20-16	1-1/4	-20	1	-16	3.69	93	2-1/8	1.91	49	
16A71-20-20	1-1/4	-20	1-1/4	-20	5.01	127	2-1/8	3.32	84	
16A71-24-24	1-1/2	-24	1-1/2	-24	6.34	161	2-1/2	4.15	105	
16A71-32-32	2	-32	2	-32	7.16	182	3-1/8	4.96	126	

**16F71 SAE Code 62 Flange Head  
45° Elbow - ISO 12151-3 - E45S - S  
(1 Piece: ISO 12151-3 - E45M - S)**

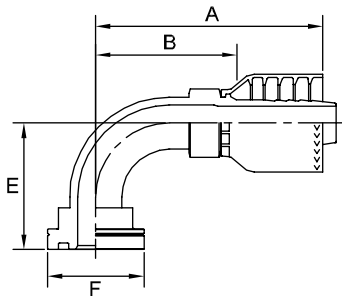
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
16F71-12-12	3/4	-12	3/4	-12	4.12	105	1.00	25	1-5/8	2.74	70	
16F71-16-16	1	-16	1	-16	4.70	119	1.06	27	1-7/8	2.92	74	
16F71-20-16	1-1/4	-20	1	-16	4.61	117	1.06	27	2-1/8	3.02	77	
16F71-20-20	1-1/4	-20	1-1/4	-20	5.07	129	1.19	30	2-1/8	3.38	86	
16F71-24-24	1-1/2	-24	1-1/2	-24	6.21	158	1.44	37	2-1/2	4.02	102	
16F71-32-32	2	-32	2	-32	7.87	200	2.05	52	3-1/8	5.67	144	

**16N71 SAE Code 62 Flange Head  
90° Elbow - ISO 12151-3 - E90S - S  
(1 Piece: ISO 12151-3 - E90M - S)**

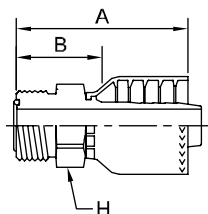
Note: Flange kits and O-Rings are listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
16N71-12-12	3/4	-12	3/4	-12	3.51	89	2.28	58	1-5/8	2.13	54	
16N71-16-12	1	-16	3/4	-12	3.84	98	2.13	54	1-7/8	2.48	63	
16N71-16-16	1	-16	1	-16	4.36	111	2.76	70	1-7/8	2.58	66	
16N71-20-16	1-1/4	-20	1	-16	4.51	115	2.38	60	2-1/8	2.73	69	
16N71-20-20	1-1/4	-20	1-1/4	-20	5.09	129	3.54	90	2-1/8	3.40	86	
16N71-24-24	1-1/2	-24	1-1/2	-24	5.85	149	3.12	79	2-1/2	3.66	93	
16N71-32-32	2	-32	2	-32	7.73	196	4.5	114	3-1/8	5.53	140	

**1J071 Male Seal-Lok® - Rigid  
Straight (with O-Ring)  
ISO 12151-1 - S**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	inch	mm
1J071-8-8	1/2	13/16x16	-8	1/2	-8	2.40	61	7/8	1.20	30	
1J071-10-8	5/8	1x14	-10	1/2	-8	2.61	66	1-1/16	1.41	36	
1J071-10-10	5/8	1x14	-10	5/8	-10	2.69	68	1-1/16	1.44	37	
1J071-12-10	3/4	1-3/16x16	-12	5/8	-10	2.79	71	1-1/4	1.55	39	
1J071-12-12	3/4	1-3/16x16	-12	3/4	-12	2.87	73	1-1/4	1.51	38	
1J071-16-12	1	1-7/16x12	-16	3/4	-12	2.91	74	1-1/2	1.53	39	
1J071-16-16	1	1-7/16x12	-16	1	-16	3.27	83	1-1/2	1.68	43	
1J071-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	3.31	84	1-3/4	1.64	42	
1J071-24-24	1-1/2	2x12	-24	1-1/2	-24	4.02	102	2-1/8	1.83	46	

Hose  
A

Fittings  
71 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

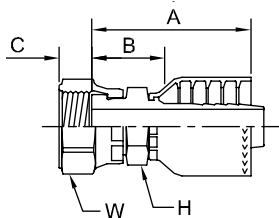
Adapters  
E

Accessories  
F

Appendices  
G

**1JC71 Female Seal-Lok® - Swivel  
Straight - Short - ISO 12151-1 - SWSA**

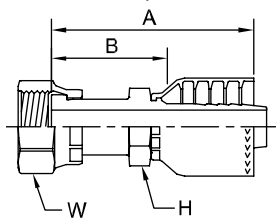
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: When measuring overall length to end of nut, B + C must be used to calculate cut-off allowance



# Part Number	Thread			Hose		A		C		H		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm	inch	mm
	1JC71-8-8	1/2	13/16x16	-8	1/2	-8	2.22	56	0.43	11	13/16	15/16	1.01	26	
1JC71-10-10	5/8	1x14	-10	5/8	-10	2.40	61	0.48	12	15/16	1-1/8	1.15	29		
1JC71-12-12	3/4	1-3/16x12	-12	3/4	-12	2.68	68	0.55	14	1-1/8	1-3/8	1.30	33		
1JC71-16-16	1	1-7/16x12	-16	1	-16	3.22	82	0.56	14	1-3/8	1-5/8	1.44	37		
1JC71-20-16	1-1/4	1-11/16x12	-20	1	-16	3.16	80	0.59	15	1-5/8	1-7/8	1.38	35		

**1JS71 Female Seal-Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB**

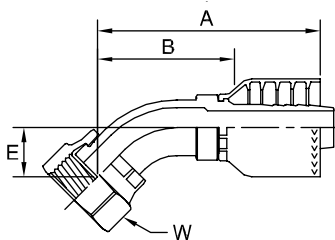
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



# Part Number	Thread			Hose		A		H		W		B	
	inch			inch		inch	mm	inch	inch	inch	mm	inch	mm
	1JS71-6-6	3/8	11/16x16	-6	3/8	-6	2.80	58	11/16	13/16	1.38	35	
1JS71-6-8	3/8	11/16x16	-6	1/2	-8	2.50	64	13/16	13/16	1.29	33		
1JS71-8-8	1/2	13/16x16	-8	1/2	-8	2.64	67	13/16	15/16	1.44	37		
1JS71-10-8	5/8	1x14	-10	1/2	-8	2.89	23	13/16	1-1/8	1.69	43		
1JS71-10-10	5/8	1x14	-10	5/8	-10	3.00	76	15/16	1-1/8	1.75	44		
1JS71-10-12	5/8	1x14	-10	3/4	-12	3.08	78	1-1/16	1-1/8	1.70	43		
1JS71-12-12	3/4	1-3/16x12	-12	3/4	-12	3.31	84	1-1/16	1-3/8	1.93	49		
1JS71-16-12	1	1-7/16x12	-16	3/4	-12	3.37	86	1-5/16	1-5/8	1.99	51		
1JS71-16-16	1	1-7/16x12	-16	1	-16	3.70	94	1-5/16	1-5/8	1.92	49		
1JS71-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	3.77	96	1-3/4	1-7/8	2.08	53		
1JS71-24-24	1-1/2	2x12	-24	1-1/2	-24	4.51	115	2	2-1/4	2.32	59		

**1J771 Female Seal-Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



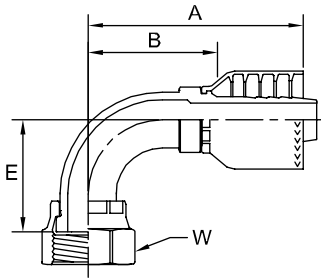
# Part Number	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm
	1J771-6-6	3/8	11/16x16	-6	3/8	-6	2.34	59	0.43	11	13/16	1.44	37
1J771-8-8	1/2	13/16x16	-8	1/2	-8	2.83	72	0.59	15	15/16	1.62	41	
1J771-10-8	5/8	1x14	-10	1/2	-8	2.93	74	0.63	16	1-1/8	1.72	44	
1J771-10-10	5/8	1x14	-10	5/8	-10	3.08	78	0.63	16	1-1/8	1.83	46	
1J771-12-12	3/4	1-3/16x12	-12	3/4	-12	3.63	92	0.83	21	1-3/8	2.25	57	
1J771-16-16	1	1-7/16x12	-16	1	-16	4.46	113	0.94	24	1-5/8	2.68	68	
1J771-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	4.75	121	1.00	25	1-7/8	3.08	78	
1J771-24-24	1-1/2	2x12	-24	1-1/2	-24	5.43	138	1.07	27	2-1/4	3.23	82	

Hose  
**A**  
 Fittings  
 71 Series  
**B**  
 Parkrimp  
 Crimping  
 Equipment  
**C**  
 Hose  
 Assembly  
 Equipment  
**D**  
 Adapters  
**E**  
 Accessories  
**F**  
 Appendices  
**G**



**1J971 Female Seal-Lok® - Swivel**  
**90° Elbow - Short Drop**  
**ISO 12151-1 - SWES**

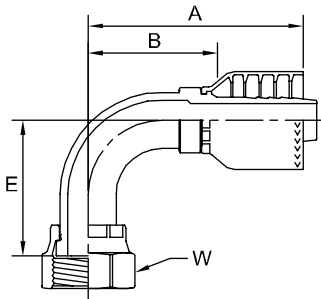
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
	Part Number												
1J971-6-6	3/8	11/16x16	-6	3/8	-6	2.21	56	0.91	23	13/16	1.31	33	
1J971-8-8	1/2	13/16x16	-8	1/2	-8	2.59	66	1.14	29	15/16	1.38	35	
1J971-10-8	5/8	1x14	-10	1/2	-8	2.74	70	1.26	32	1-1/8	1.53	39	
1J971-10-10	5/8	1x14	-10	5/8	-10	2.88	73	1.26	32	1-1/8	1.63	41	
1J971-10-12	5/8	1x14	-10	3/4	-12	3.07	78	1.27	32	1-1/8	1.70	43	
1J971-12-10	3/4	1-3/16x12	-12	5/8	-10	3.40	86	1.89	48	1-3/8	2.15	55	
1J971-12-12	3/4	1-3/16x12	-12	3/4	-12	3.49	89	1.89	48	1-3/8	2.11	54	
1J971-16-16	1	1-7/16x12	-16	1	-16	4.36	111	2.20	56	1-5/8	2.58	66	
1J971-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	4.86	123	2.51	64	1-7/8	3.19	81	
1J971-24-24	1-1/2	2x12	-24	1-1/2	-24	6.22	158	2.68	68	2-1/4	4.03	102	

**1J571 Female Seal-Lok® - Swivel**  
**90° Elbow - Medium Drop**  
**ISO 12151-1 - SWEM**

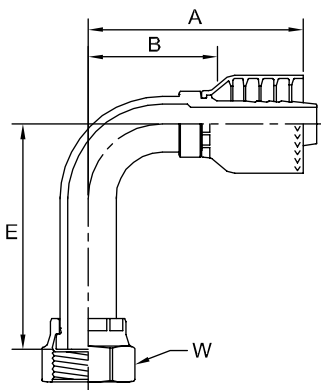
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
	Part Number												
1J571-10-10	5/8	1x14	-10	5/8	-10	2.88	73	1.85	47	1-1/8	1.63	41	
1J571-12-12	3/4	1-3/16x12	-12	3/4	-12	3.49	89	2.28	58	1-3/8	2.11	54	

**1J171 Female Seal-Lok® - Swivel**  
**90° Elbow - Long Drop**  
**ISO 12151-1 - SWEL**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
^ Must be assembled with Die Part No. 83C-D20H.

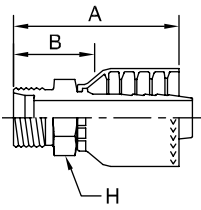


#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm	mm
	Part Number												
1J171-6-6	3/8	11/16x16	-6	3/8	-6	2.39	61	2.13	54	13/16	1.49	38	
1J171-8-8	1/2	13/16x16	-8	1/2	-8	2.59	66	2.52	64	15/16	1.38	35	
1J171-10-10	5/8	1x14	-10	5/8	-10	2.88	73	2.76	70	1-1/8	1.63	41	
1J171-10-12	5/8	1x14	-10	3/4	-12	3.16	80	2.76	70	1-1/8	1.79	45	
1J171-12-12	3/4	1-3/16x12	-12	3/4	-12	3.49	89	3.78	96	1-3/8	2.11	54	
1J171-12-16	3/4	1-13/16x12	-12	1	-16	3.91	99	3.78	96	1-3/8	2.13	54	
1J171-16-12	1	1-7/16x12	-16	3/4	-12	4.07	103	4.50	114	1-5/8	2.69	68	
1J171-16-16	1	1-7/16x12	-16	1	-16	4.36	111	4.49	114	1-5/8	2.58	66	
1J171-16-20	1	1-7/16x12	-16	1-1/4	-20	4.44	113	4.50	114	1-5/8	2.75	70	
1J171-20-16	1-1/4	1-11/16x12	-20	1	-16	4.53	115	5.09	129	1-7/8	2.75	70	
1J171-20-20^	1-1/4	1-11/16x12	-20	1-1/4	-20	4.88	124	5.09	129	1-7/8	3.19	81	
1J171-24-20	1-1/2	2x12	-24	1-1/4	-20	4.83	123	5.54	141	2-1/4	3.13	80	
1J171-24-24	1-1/2	2x12	-24	1-1/2	-24	5.83	148	5.54	141	2-1/4	3.64	92	

Hose  
**A**  
Fittings  
71 Series  
**B**  
Parkrimp  
Crimping  
Equipment  
**C**  
Hose  
Assembly  
Equipment  
**D**  
Adapters  
**E**  
Accessories  
**F**  
Appendices  
**G**

**1D271 Male Metric S - Rigid  
Straight (24° Cone)  
ISO 12151-2 - S - S**

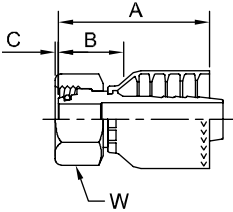
Note: Mates with EO "S" Series Fittings.



#	Thread		Hose		A		H	B		
	mm		inch		inch	mm	mm	inch	mm	
	1D271-25-12	25	M36x2	-25	3/4	-12	2.90	74	36	1.52
1D271-30-16	30	M42x2	-30	1	-16	3.45	88	46	1.67	42
1D271-38-20	38	M52x2	-38	1-1/4	-20	3.58	91	60	1.89	48

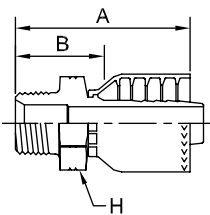
**1C971 Female Metric S - Swivel  
Straight (24° Cone with O-Ring)  
ISO 12151-2 - SWS - S**

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.  
Note: Mates with EO "S" Series Fittings.  
^ Must be assembled with Die Part No. 83C-D20H.



#	Thread		Hose		A		C		W	B		
	mm		inch		inch	mm	inch	mm	mm	inch	mm	
	1C971-12-6	12	M20x1,5	-12	3/8	-6	1.99	51	0.03	1	24	1.17
1C971-14-6	14	M22x1,5	-14	3/8	-6	2.05	52	0.03	1	27	1.22	31
1C971-16-8	16	M24x1,5	-16	1/2	-8	2.33	59	0.09	2	30	1.18	30
1C971-20-10	20	M30x2	-20	5/8	-10	2.55	65	0.05	1	36	1.39	35
1C971-25-12	25	M36x2	-25	3/4	-12	2.68	68	0.10	3	46	1.10	28
1C971-30-16	30	M42x2	-30	1	-16	3.07	78	0.19	5	50	1.30	33
1C971-38-20^	38	M52x2	-38	1-1/4	-20	3.15	80	0.23	6	60	1.30	33

**1UT71 Male BSP Taper Pipe - Rigid  
Straight (60° Cone)**



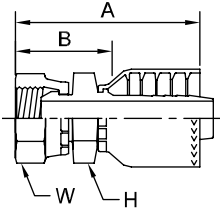
#	Thread		Hose		A		H	B	
	inch		inch		inch	mm	mm	inch	mm
	1UT71-6-6	3/8x19	-6	3/8	-6	2.25	57	22	1.36
1UT71-8-8	1/2x14	-8	1/2	-8	2.66	68	27	1.46	37
1UT71-12-12	3/4x14	-12	3/4	-12	2.95	75	36	1.59	40
1UT71-16-16	1x11	-16	1	-16	3.47	88	41	1.88	48
1UT71-20-20	1-1/4x11	-20	1-1/4	-20	3.75	95	50	2.08	53
1UT71-24-24	1-1/2x11	-24	1-1/2	-24	4.42	112	60	2.23	57



**A** Hose  
**B** Fittings 71 Series  
**C** Parkrimp Crimping Equipment  
**D** Hose Assembly Equipment  
**E** Adapters  
**F** Accessories  
**G** Appendices

**1GU71 Female BSP Parallel Pipe  
Swivel - Straight (60° Cone)**

Hose  
**A**

Fittings  
71 Series  
**B**

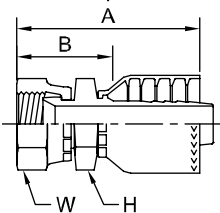


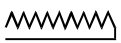

#						A		H	W	B	
	Part Number	Thread inch		Hose inch		inch	mm	mm	mm	inch	mm
1GU71-6-6	3/8	3/8x19	-6	3/8	-6	2.45	62	22	22	1.55	39
1GU71-8-8	1/2	1/2x14	-8	1/2	-8	2.81	71	27	27	1.61	41
1GU71-12-12	3/4	3/4x14	-12	3/4	-12	3.24	82	36	36	1.86	47
1GU71-16-16	1	1x11	-16	1	-16	3.82	97	41	41	2.04	52
1GU71-20-20	1-1/4	1-1/4x11	-20	1-1/4	-20	4.07	103	50	50	2.38	60
1GU71-24-24	1-1/2	1-1/2x11	-24	1-1/2	-24	4.81	122	60	60	2.62	67
1GU71-32-32	2	2x11	-32	2	-32	5.17	131	70	70	2.97	75

**1FU71 Female BSP Parallel Pipe  
Swivel - Straight (30° Flare)**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

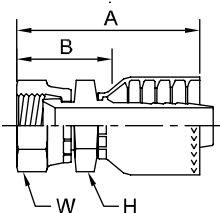


#						A		H	W	B	
	Part Number	Thread inch		Hose inch		inch	mm	mm	mm	inch	mm
1FU71-6-6	3/8	3/8x19	-6	3/8	-6	2.39	61	24	22	1.50	38
1FU71-8-8	1/2	1/2x14	-8	1/2	-8	2.71	69	27	27	1.51	38
1FU71-12-12	3/4	3/4x14	-12	3/4	-12	3.10	79	36	36	1.74	44
1FU71-16-16	1	1x11	-16	1	-16	3.52	89	41	41	1.93	49
1FU71-20-20	1-1/4	1-1/4x11	-20	1-1/4	-20	3.87	98	50	50	2.20	56
1FU71-24-24	1-1/2	1-1/2x11	-24	1-1/2	-24	4.66	118	60	60	2.53	64



**1MU71 Female Metric - Swivel  
Straight (30° Flare)**

Adapters  
**E**

Accessories  
**F**



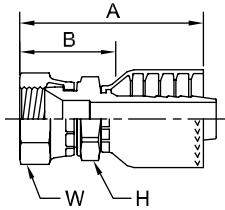
**Note: Japanese Fittings - Female Swivel 30° Flare with Metric Threads.** Some Japanese equipment use 30° flare fittings with metric threads. In combination with the 1MU43 and 1MU71 fittings in sizes up to -8, and the 1XU43 and 1XU71 in sizes -10 and larger, all 30° flared fitting size requirements are available.

#					A		H	B	
	Part Number	Thread mm		Hose inch		inch	mm	mm	inch
1MU71-6-6	M18x1,5	-6	3/8	-6	2.45	62	24	1.56	40
1MU71-8-8	M22x1,5	-8	1/2	-8	2.83	72	27	1.45	37

Appendices  
**G**

**1XU71 Female Metric - Swivel  
Straight (30° Flare)**

**Note: Japanese Fittings - Female Swivel 30° Flare with Metric Threads.** Some Japanese equipment use 30° flare fittings with metric threads. In combination with the 1MU43 and 1MU71 fittings in sizes up to -8, and the 1XU43 and 1XU71 in sizes -10 and larger, all 30° flared fitting size requirements are available.



# Part Number	Thread			Hose		A		H	W	B	
	mm			inch		inch	mm	mm	mm	inch	mm
	1XU71-10-10	5/8	M24x1,5	-10	5/8	-10	3.16	80	30	32	1.91
1XU71-12-12	3/4	M30x1,5	-12	3/4	-12	3.40	86	32	36	2.02	51
1XU71-16-16	1	M33x1,5	-16	1	-16	4.11	104	36	41	2.33	59
1XU71-20-20	1-1/4	M36x1,5	-20	1-1/4	-20	4.19	106	46	46	2.50	64
1XU71-24-24	1-1/2	M42x1,5	-24	1-1/2	-24	5.00	127	50	55	2.80	71

A  
Hose

B  
Fittings  
71 Series

C  
Parkrimp  
Crimping  
Equipment

D  
Hose  
Assembly  
Equipment


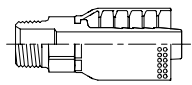

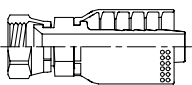
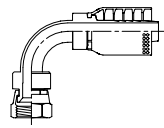

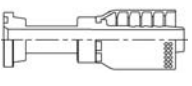
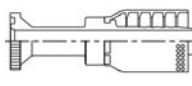
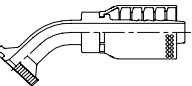
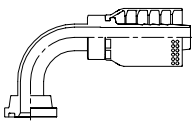
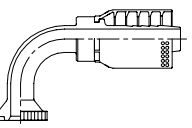

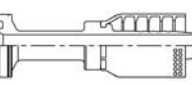
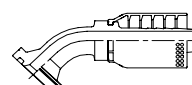
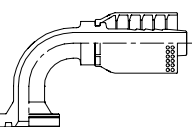

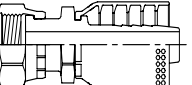
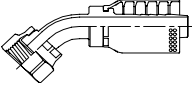
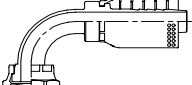

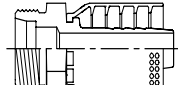

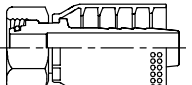
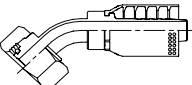
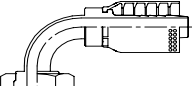

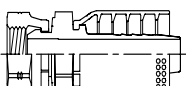
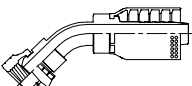
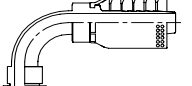

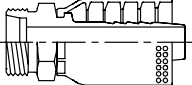
E  
Adapters

F  
Accessories

G  
Appendices

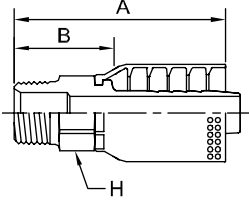
Hose <b>A</b>
Fittings 71 Series <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
Hose Assembly Equipment <b>D</b>
Adapters <b>E</b>
Accessories <b>F</b>
Appendices <b>G</b>



 <b>NPTF Pipe</b>	10173 B-76  <i>Male - Rigid - Straight</i>	 <b>JIC 37°</b>	10673 B-76  <i>Female - Swivel Straight</i>	13973 B-76  <i>Female - Swivel 90° Elbow</i>	 <b>Code 61 Flange</b>
11573 B-76  <i>Straight</i>	14A73 B-77  <i>Straight - 5000 psi</i>	14F73 B-77  <i>45° Elbow - 5000 psi</i>	11973 B-77  <i>90° Elbow</i>	14N73 B-78  <i>90° Elbow - 5000 psi</i>	 <b>Code 62 Flange</b>
16A73 B-78  <i>Straight</i>	16F73 B-78  <i>45° Elbow</i>	16N73 B-79  <i>90° Elbow</i>	 <b>Seal-Lok®</b>	1JS73 B-79  <i>Female - Swivel Straight - Long</i>	1J773 B-79  <i>Female - Swivel 45° Elbow</i>
1J973 B-79  <i>Female - Swivel 90° Elbow</i>	 <b>DIN "S" Series</b>	1D273 B-80  <i>Male - Rigid - Straight</i>	 <b>DIN "S" Series w/O-Ring</b>	1C973 B-80  <i>Female - Swivel Straight</i>	10C73 B-80  <i>Female - Swivel 45° Elbow</i>
11C73 B-80  <i>Female - Swivel 90° Elbow</i>	 <b>BSP 60° Cone</b>	1GU73 B-81  <i>Female - Swivel Straight</i>	1G173 B-81  <i>Female - Swivel 45° Elbow</i>	1G273 B-81  <i>Female - Swivel 90° Elbow</i>	 <b>French Gaz</b>
1FG73 B-81  <i>Male - Rigid - Straight</i>					

Hose	<b>A</b>
Fittings 73 Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

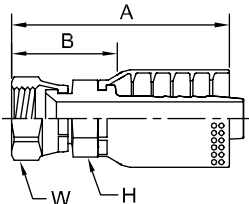
10173 Male NPTF Pipe - Rigid  
Straight



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
10173-12-12	3/4x14	-12	3/4	-12	3.56	90	1-1/8	1.75	44	
10173-16-16	1x11-1/2	-16	1	-16	3.94	100	1-3/8	2.00	51	
10173-20-20	1-1/4x11-1/2	-20	1-1/4	-20	4.92	125	1-3/4	2.43	62	
10173-24-24	1-1/2x11-1/2	-24	1-1/2	-24	4.88	124	2	2.57	65	
10173-32-32	2x11-1/2	-32	2	-32	5.57	141	2-1/2	2.87	73	

10673 Female JIC 37° - Swivel  
Straight

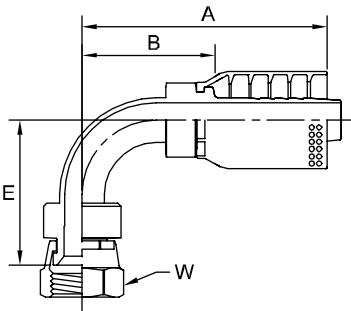
Note: All sizes of fitting style 10673 are rated at 5000psi working pressure.



#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
10673-12-12	3/4	1-1/16x12	-12	3/4	-12	3.66	93	1-1/8	1-1/4	1.85	47
10673-16-12	1	1-5/16x12	-16	3/4	-12	3.90	99	1-3/8	1-1/2	2.09	53
10673-16-16	1	1-5/16x12	-16	1	-16	4.03	102	1-3/8	1-1/2	2.09	53
10673-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.93	125	1-3/4	2	2.44	62
10673-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	5.04	128	2	2-1/4	2.73	69
10673-32-32	2	2-1/2x12	-32	2	-32	5.91	150	2-1/2	2-7/8	3.21	82

13973 Female JIC 37° - Swivel  
90° Elbow - Short Drop

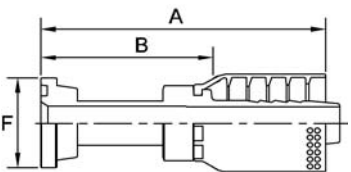
Note: All sizes of fitting style 10673 are rated at 5000psi working pressure.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
13973-16-16	1	1-5/16x12	-16	1	-16	4.71	120	2.93	74	1-1/2	2.77	70	

11573 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L

Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	inch	mm
11573-12-12	3/4	-12	3/4	-12	4.34	110	1-1/2	2.53	64	
11573-16-16	1	-16	1	-16	4.59	117	1-3/4	2.65	67	

Hose  
A

Fittings  
73 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

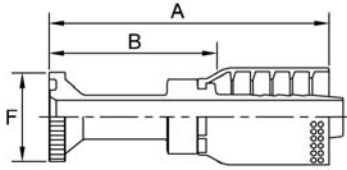
Adapters  
E

Accessories  
F

Appendices  
G

**14A73 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L  
(5000 psi)**

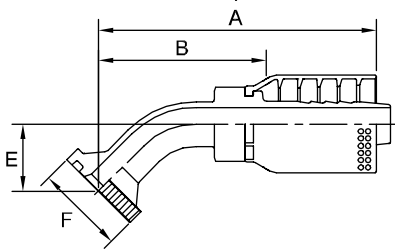
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	inch	mm
14A73-20-20	1-1/4	-20	1-1/4	-20	5.54	141	2	3.05	77	
14A73-24-24	1-1/2	-24	1-1/2	-24	6.53	166	2-3/8	4.22	107	
14A73-32-32	2	-32	2	-32	6.14	156	2-13/16	3.44	87	

**14F73 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO 12151-3 - E45M - L)  
(5000 psi)**

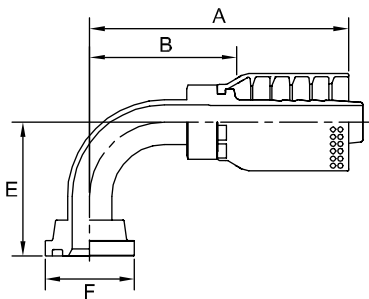
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
14F73-20-20	1-1/4	-20	1-1/4	-20	6.39	162	1.5	38	2	3.90	99	
14F73-24-24	1-1/2	-24	1-1/2	-24	6.99	178	1.73	44	2-3/8	4.68	119	
14F73-32-32	2	-32	2	-32	8.40	214	2.21	56	2-13/16	5.71	145	

**11973 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)**

Note: Flange kits and O-Rings listed in Section F.

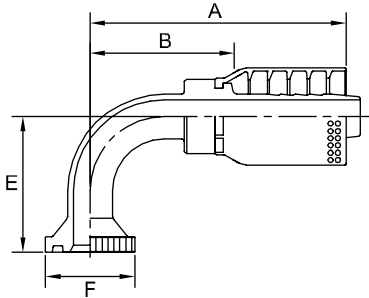




#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
11973-12-12	3/4	-12	3/4	-12	3.97	101	2.28	58	1-1/2	2.16	55	
11973-16-12	1	-16	3/4	-12	4.00	102	2.28	58	1-3/4	2.19	56	
11973-16-16	1	-16	1	-16	4.63	118	2.76	70	1-3/4	2.69	68	



**14N73 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)  
(5000 psi)**

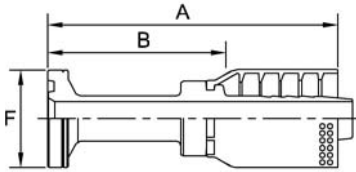
Note: Flange kits and O-Rings listed in Section F.





#					A		E		F	B	
	Flange		Hose		A		E		F	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
14N73-20-20	1-1/4	-20	1-1/4	-20	6.09	155	3.54	90	2	3.60	91
14N73-24-24	1-1/2	-24	1-1/2	-24	6.52	166	4.09	104	2-3/8	4.21	107
14N73-32-32	2	-32	2	-32	7.82	199	5.43	138	2-13/16	5.12	130

**16A73 SAE Code 62 Flange Head  
Straight - ISO 12151-3 - S - S**

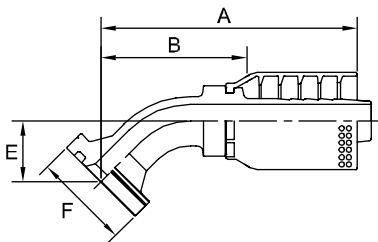
Note: Flange kits and O-Rings listed in Section F.





#					A		F		B	
	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	mm	
16A73-12-12	3/4	-12	3/4	-12	4.60	117	1-5/8	2.79	71	
16A73-16-16	1	-16	1	-16	5.16	131	1-7/8	3.22	82	
16A73-20-16	1-1/4	-20	1	-16	3.95	100	2-1/8	2.01	51	
16A73-20-20	1-1/4	-20	1-1/4	-20	5.85	149	2-1/8	3.36	85	
16A73-24-24	1-1/2	-24	1-1/2	-24	6.54	166	2-1/2	4.23	107	
16A73-32-32	2	-32	2	-32	7.63	194	3-1/8	4.93	125	

**16F73 SAE Code 62 Flange Head  
45° Elbow - ISO 12151-3 - E45S - S  
(1 Piece: ISO 12151-3 - E45M - S)**

Note: Flange kits and O-Rings listed in Section F.



#					A		E		F	B	
	Flange		Hose		A		E		F	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
16F73-12-12	3/4	-12	3/4	-12	4.31	109	1.02	26	1-5/8	2.50	64
16F73-16-16	1	-16	1	-16	5.01	127	1.26	32	1-7/8	3.07	78
16F73-20-20	1-1/4	-20	1-1/4	-20	6.39	162	1.50	38	2-1/8	3.90	99
16F73-24-24	1-1/2	-24	1-1/2	-24	6.99	178	1.73	44	2-1/2	4.68	119
16F73-32-32	2	-32	2	-32	8.41	214	2.21	56	3-1/8	5.71	145

Hose  
A

Fittings  
73 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

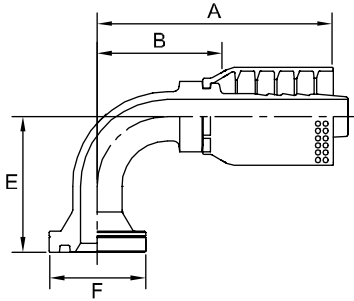
Adapters  
E

Accessories  
F

Appendices  
G

**16N73 SAE Code 62 Flange Head  
90° Elbow - ISO 12151-3 - E90S - S  
(1 Piece: ISO 12151-3 - E90M - S)**

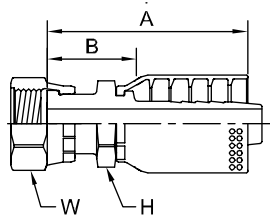
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
16N73-12-12	3/4	-12	3/4	-12	3.97	101	2.28	58	1-5/8	2.16	55	
16N73-16-16	1	-16	1	-16	4.63	118	2.76	70	1-7/8	2.69	68	
16N73-20-20	1-1/4	-20	1-1/4	-20	6.09	151	3.54	90	2-1/8	3.60	91	
16N73-24-24	1-1/2	-24	1-1/2	-24	6.52	166	4.09	104	2-1/2	4.21	107	
16N73-32-32	2	-32	2	-32	7.82	199	5.43	138	3-1/8	5.12	130	

**1JS73 Female Seal Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB**

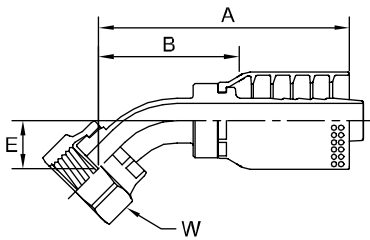
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H	W	B		
	inch		inch		inch	mm	inch	inch	inch	mm	
1JS73-12-12	3/4	1-3/16x12	-12	3/4	-12	3.70	94	1-1/8	1-3/8	1.89	48
1JS73-16-12	1	1-7/16x12	-16	3/4	-12	3.78	96	1-3/8	1-5/8	1.97	50
1JS73-16-16	1	1-7/16x12	-16	1	-16	4.03	102	1-3/8	1-5/8	2.09	53
1JS73-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	4.62	132	1-3/4	1-7/8	2.13	69

**1J773 Female Seal Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45**

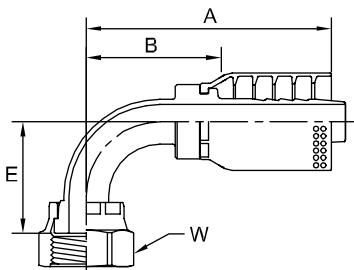
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B		
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
1J773-12-12	3/4	1-3/16x12	-12	3/4	-12	4.11	104	0.81	21	1-3/8	2.30	58
1J773-16-16	1	1-7/16x12	-16	1	-16	4.69	119	0.94	24	1-5/8	2.75	70
1J773-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	5.78	147	0.98	25	1-7/8	3.29	84

**1J973 Female Seal Lok® - Swivel  
90° Elbow - Short Drop  
ISO 12151-1 - SWES**

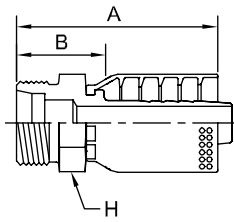
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B		
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
1J973-12-12	3/4	1-3/16x12	-12	3/4	-12	3.97	100	1.89	48	1-3/8	2.16	55
1J973-16-16	1	1-7/16x12	-16	1	-16	4.62	117	2.20	56	1-5/8	2.68	68
1J973-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	5.82	148	2.52	64	1-7/8	3.33	85

**1D273 Male Metric S - Rigid  
Straight (24° Cone)  
ISO 12151-2 - S - S**

Note: Mates with EO "S" Series Fittings.



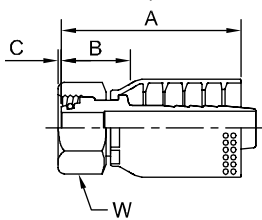
# Part Number	Thread			Hose		A		H		B	
	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	
1D273-25-12	25	M36x2	-25	3/4	-12	3.38	86	36	1.57	40	
1D273-30-16	30	M42x2	-30	1	-16	3.72	94	46	1.78	45	
1D273-38-20	38	M52x2	-38	1-1/4	-20	4.42	112	55	1.93	49	

**1C973 Female Metric S - Swivel  
Straight (24° Cone with O-Ring)  
ISO 12151-2 - SWS - S**

^ Must use Parkrimp 2 with Die Part No. 83C-L20.

Note: Mates with EO "S" Series Fittings.

Note: When measuring overall length to end of nut, B + C must be used to calculate cut-off allowance

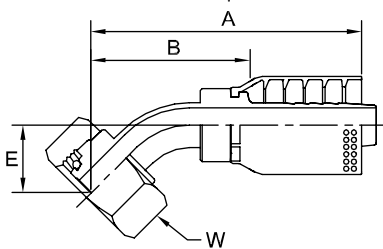


# Part Number	Thread			Hose		A		C		W		B	
	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	mm	inch	mm
1C973-25-12	25	M36x2	-25	3/4	-12	3.12	79	0.10	3	46	1.31	33	
1C973-30-16	30	M42x2	-30	1	-16	3.40	86	0.19	5	50	1.46	37	
1C973-38-20^	38	M52x2	-38	1-1/4	-20	3.98	101	0.23	6	60	1.49	38	

**10C73 Female Metric S - Swivel  
45° Elbow (24° Cone with O-Ring)  
ISO 12151-2 - SWE45 - S**

^ Must use Parkrimp 2 with Die Part No. 83C-L20.

Note: Mates with EO "S" Series Fittings.

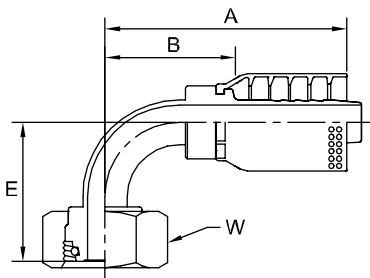


# Part Number	Thread			Hose		A		E		W		B	
	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	mm	inch	mm
10C73-25-12	25	M36x2	-25	3/4	-12	4.45	113	1.14	29	46	2.56	65	
10C73-30-16	30	M42x2	-30	1	-16	5.16	131	1.34	34	50	3.19	81	
10C73-38-20^	38	M52x2	-38	1-1/4	-20	6.44	164	1.5	38	60	3.95	100	

**11C73 Female Metric S - Swivel  
90° Elbow (24° Cone with O-Ring)  
ISO 12151-2 - SWE - S**

^ Must use Parkrimp 2 or Superkrimp and Die Part No. 83C-L20.

Note: Mates with EO "S" Series Fittings.



# Part Number	Thread			Hose		A		E		W		B	
	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	mm	inch	mm
11C73-25-12	25	M36x2	-25	3/4	-12	4.12	105	2.32	59	46	2.31	59	
11C73-30-16	30	M42x2	-30	1	-16	4.71	120	2.68	68	50	2.77	70	
11C73-38-20^	38	M52x2	-38	1-1/4	-20	5.67	144	2.86	73	60	3.18	81	

Hose  
A

Fittings  
73 Series  
B

Parkrimp  
Crimping  
Equipment  
C

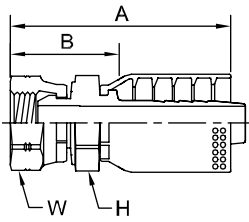
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

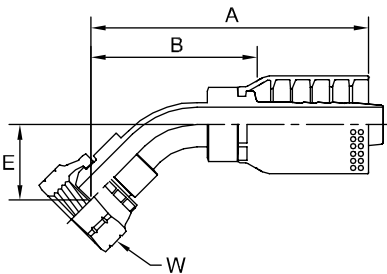
Appendices  
G

### 1GU73 Female BSP Parallel Pipe Swivel - Straight (60° Cone)



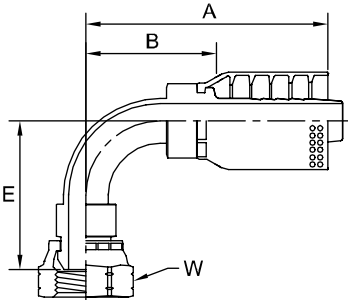
#	Thread		Hose		A		H	B	
	mm		inch		inch	mm	mm	inch	mm
	mm	-	inch	-	inch	mm	mm	inch	mm
1GU73-12-12	3/4x14	-12	3/4	-12	3.76	95	36	1.95	49
1GU73-16-16	1x11	-16	1	-16	4.14	105	41	2.20	56

### 1G173 Female BSP Parallel Pipe Swivel - 45° Elbow (60° Cone)



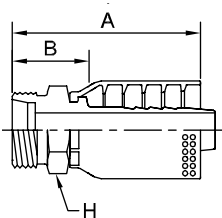
#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	mm	inch	mm
	inch	-	inch	-	inch	mm	inch	mm	mm	inch	mm
1G173-12-12	3/4x14	-12	3/4	-12	4.77	121	1.35	34	36	2.96	75
1G173-16-16	1x11	-16	1	-16	5.36	136	1.52	38	41	3.42	86

### 1G273 Female BSP Parallel Pipe Swivel - 90° Elbow (60° Cone)



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	mm	inch	mm
	inch	-	inch	-	inch	mm	inch	mm	mm	inch	mm
1G273-12-12	3/4x14	-12	3/4	-12	4.12	104	2.62	66	36	2.31	58
1G273-16-16	1x11	-16	1	-16	4.71	119	3.04	77	41	2.77	70

### 1FG73 Male French Gaz Series Rigid - Straight (24° Cone)



#	Thread		Hose		A		H	B		
	mm		inch		inch	mm	mm	inch	mm	
	mm	-	inch	-	inch	mm	mm	inch	mm	
1FG73-27-12	27	M36x1,5	-27	3/4	-12	3.23	82	36	1.30	33
1FG73-33-16	33	M45x1,5	-33	1	-16	3.58	91	46	1.53	39

Hose	A
Fittings 73 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose

**A**

Fittings  
73 Series

**B**

Parkrimp  
Crimping  
Equipment

**C**

Hose  
Assembly  
Equipment

**D**

Adapters


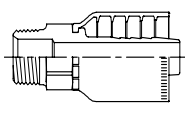

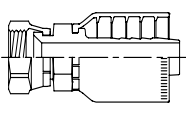
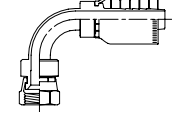

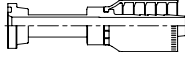
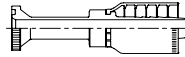

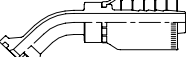

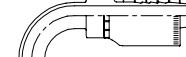

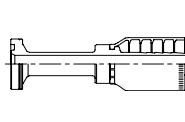
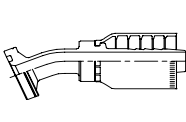
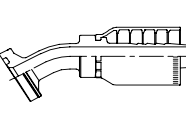
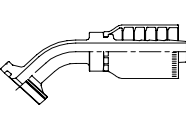
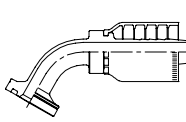
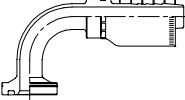

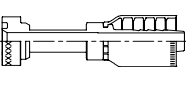
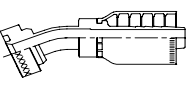
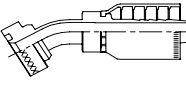
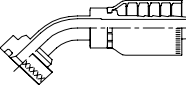
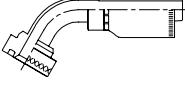
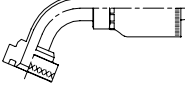
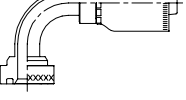

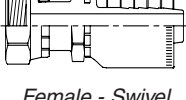
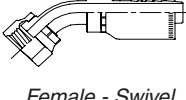


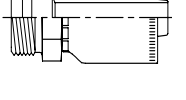

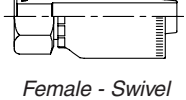
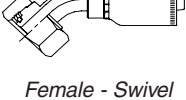

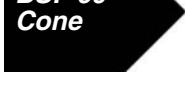
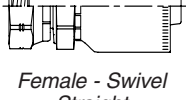
**E**

Accessories

**F**

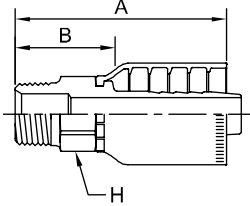
Appendices

**G**

 <b>NPTF Pipe</b>	10178 B-84  <i>Male - Rigid - Straight</i>	 <b>JIC 37°</b>	10678 B-84  <i>Male - Rigid - Straight</i>	13978 B-84  <i>Female - Swivel 90° Elbow - Short</i>	 <b>Code 61 Flange</b>
11578 B-85  <i>Straight</i>	14A78 B-85  <i>Straight - 5000 psi</i>	11778 B-85  <i>45° Elbow</i>	14F78 B-85  <i>45° Elbow - 5000 psi</i>	11978 B-86  <i>90° Elbow</i>	14N78 B-86  <i>90° Elbow - 5000 psi</i>
 <b>Code 62 Flange</b>	16A78 B-86  <i>Straight</i>	16B78 B-87  <i>22 1/2° Elbow</i>	16E78 B-87  <i>30° Elbow</i>	16F78 B-87  <i>45° Elbow</i>	16G78 B-88  <i>60° Elbow</i>
16N78 B-88  <i>90° Elbow</i>	 <b>Caterpillar® Flange</b>	1XA78 B-88  <i>Straight</i>	1XB78 B-89  <i>22 1/2° Elbow</i>	1XE78 B-89  <i>30° Elbow</i>	1XF78 B-89  <i>45° Elbow</i>
1XG78 B-90  <i>60° Elbow</i>	1XM78 B-90  <i>67 1/2° Elbow</i>	1XN78 B-90  <i>90° Elbow</i>	 <b>Seal-Lok®</b>	1JS78 B-91  <i>Female - Swivel Straight - Long</i>	1J778 B-91  <i>Female - Swivel 45° Elbow</i>
1J978 B-91  <i>Female - Swivel 90° Elbow</i>	 <b>DIN "S" Series</b>	1D278 B-91  <i>Male - Rigid - Straight</i>	 <b>DIN "S" Series w/O-Ring</b>	1C978 B-92  <i>Female - Swivel Straight</i>	10C78 B-92  <i>Female - Swivel 45° Elbow</i>
11C78 B-92  <i>Female - Swivel 90° Elbow</i>	 <b>BSP 60° Cone</b>	1GU78 B-92  <i>Female - Swivel Straight</i>			

Hose	<b>A</b>
Fittings 78 Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

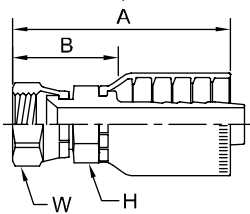
### 10178 Male NPTF Pipe - Rigid Straight



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
10178-12-12	3/4x14	-12	3/4	-12	3.56	90	1-1/8	1.80	46	
10178-16-16	1x11-1/2	-16	1	-16	3.94	100	1-3/8	2.09	53	
10178-20-20	1-1/4x11-1/2	-20	1-1/4	-20	4.92	125	1-3/4	2.53	64	
10178-24-24	1-1/2x11-1/2	-24	1-1/2	-24	4.88	124	2	2.67	68	
10178-32-32	2x11-1/2	-32	2	-32	5.57	141	2-1/2	3.00	76	

### 10678 Female JIC 37° - Swivel Straight

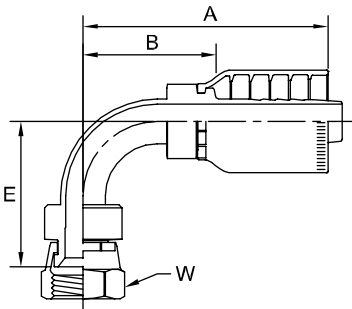
Note: "C" - Stainless Steel Fitting. Must be crimped with Karrykrimp 2, PHastkrimp or Parkrimp 2.  
Note: All sizes of fitting style 10678 are rated at 5000psi working pressure.



#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
10678-12-12	3/4	1-1/16x12	-12	3/4	-12	3.66	93	1-1/8	1-1/4	1.90	48
10678-12-12C	3/4	1-1/16x12	-12	3/4	-12	3.66	93	1-1/8	1-1/4	1.90	48
10678-16-12	1	1-5/16x12	-16	3/4	-12	3.90	99	1-3/8	1-1/2	2.14	54
10678-16-16	1	1-5/16x12	-16	1	-16	4.03	102	1-3/8	1-1/2	2.18	55
10678-16-16C	1	1-5/16x12	-16	1	-16	4.03	102	1-3/8	1-1/2	2.18	55
10678-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.93	125	1-3/4	2	2.54	65
10678-20-20C	1-1/4	1-5/8x12	-20	1-1/4	-20	4.93	125	1-3/4	2	2.54	65
10678-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	5.04	128	2	2-1/4	2.83	72
10678-24-24C	1-1/2	1-7/8x12	-24	1-1/2	-24	5.04	128	2	2-1/4	2.83	72
10678-32-32	2	2-1/2x12	-32	2	-32	5.91	150	2-1/2	2-7/8	3.34	85

### 13978 Female JIC 37° - Swivel 90° Elbow - Short Drop

Note: All sizes of fitting style 13978 are rated at 5000psi working pressure



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
13978-12-12	3/4	1-1/16x12	-12	3/4	-12	4.12	105	2.44	62	1-1/2	2.36	60
13978-16-16	1	1-5/16x12	-16	1	-16	4.71	120	2.93	74	1-1/2	2.86	73
13978-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	5.67	144	3.35	85	2	3.28	83

Hose  
A

Fittings  
78 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

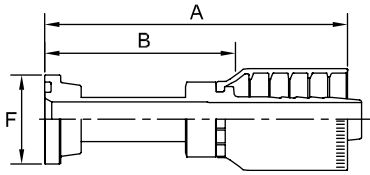
Adapters  
E

Accessories  
F

Appendices  
G

**11578 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L**

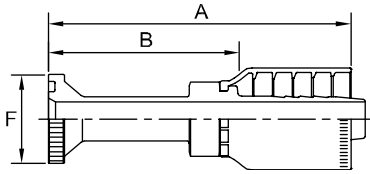
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	mm	
	inch	mm	inch	mm	inch	mm	inch	inch	mm	
11578-12-12	3/4	-12	3/4	-12	4.34	110	1-1/2	2.58	65	
11578-16-16	1	-16	1	-16	4.59	117	1-3/4	2.74	70	

**14A78 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L  
(5000psi)**

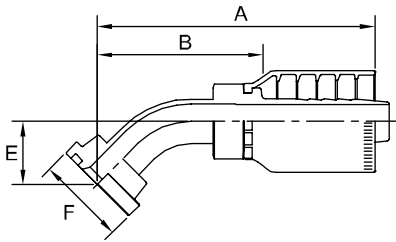
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	mm	
	inch	mm	inch	mm	inch	mm	inch	inch	mm	
14A78-20-20	1-1/4	-20	1-1/4	-20	5.54	141	2	3.15	80	
14A78-24-24	1-1/2	-24	1-1/2	-24	6.53	166	2-3/8	4.32	110	
14A78-32-24	2	-32	1-1/2	-24	4.68	119	2-13/16	2.47	63	
14A78-32-32	2	-32	2	-32	6.14	156	2-13/16	3.57	91	

**11778 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO 12151-3 - E45M - L)**

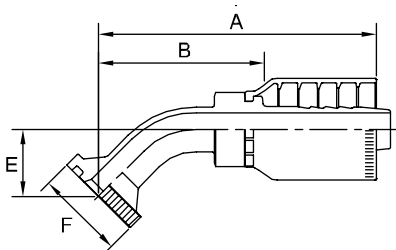
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm	
11778-12-12	3/4	-12	3/4	-12	4.67	119	1.06	27	1-1/2	2.91	74	
11778-16-16	1	-16	1	-16	5.31	135	1.28	33	1-3/4	3.46	88	

**14F78 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO 12151-3 - E45M - L)  
(5000psi)**

Note: Flange kits and O-Rings listed in Section F.

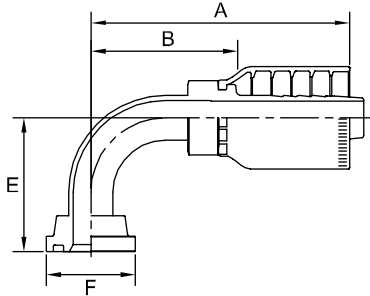


#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm	
14F78-20-20	1-1/4	-20	1-1/4	-20	6.39	162	1.50	38	2	4.00	102	
14F78-24-24	1-1/2	-24	1-1/2	-24	6.99	178	1.73	44	2-3/8	4.78	121	
14F78-32-32	2	-32	2	-32	8.40	214	2.20	56	2-13/16	5.84	148	



**11978 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)**

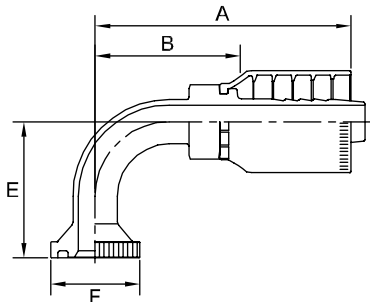
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
11978-12-12	3/4	-12	3/4	-12	4.35	110	2.25	57	1-1/2	2.59	66	
11978-16-16	1	-16	1	-16	4.67	119	2.76	70	1-3/4	2.82	72	

**14N78 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)  
(5000psi)**

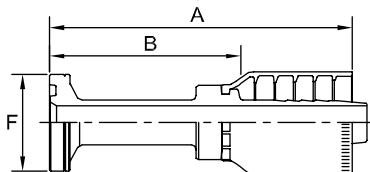
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
14N78-20-16	1-1/4	-20	1	-16	4.63	118	2.76	70	2	2.78	71	
14N78-20-20	1-1/4	-20	1-1/4	-20	6.09	155	3.54	90	2	3.70	94	
14N78-24-24	1-1/2	-24	1-1/2	-24	6.52	166	4.09	104	2-3/8	4.31	109	
14N78-32-32	2	-32	2	-32	7.82	199	5.43	138	2-13/16	5.25	133	

**16A78 SAE Code 62 Flange Head  
Straight - ISO 12151-3 - S - S**

Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	inch	mm
16A78-12-12	3/4	-12	3/4	-12	4.60	117	1-5/8	2.84	72	
16A78-16-12	1	-16	3/4	-12	3.57	90	1-7/8	1.81	46	
16A78-16-16	1	-16	1	-16	5.16	131	1-7/8	3.31	84	
16A78-20-16	1-1/4	-20	1	-16	3.95	100	2-1/8	2.10	53	
16A78-20-20	1-1/4	-20	1-1/4	-20	5.85	149	2-1/8	3.46	88	
16A78-24-20	1-1/2	-24	1-1/4	-20	4.77	121	2-1/2	2.38	60	
16A78-24-24	1-1/2	-24	1-1/2	-24	6.54	166	2-1/2	4.33	110	
16A78-32-24	2	-32	1-1/2	-24	5.07	129	3-1/8	2.86	73	
16A78-32-32	2	-32	2	-32	7.63	194	3-1/8	5.06	129	

Hose  
A

Fittings  
78 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

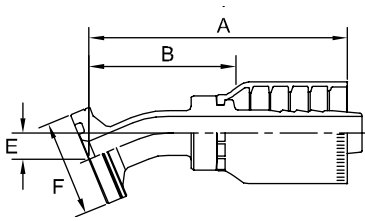
Adapters  
E

Accessories  
F

Appendices  
G

**16B78 SAE Code 62 Flange Head  
22½° Elbow - ISO 12151-3 - E22M - S**

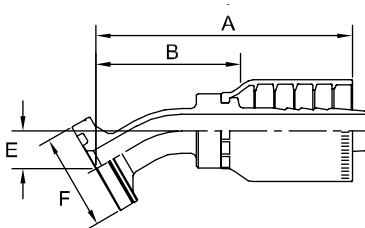
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number											
16B78-16-16	1	-16	1	-16	4.57	116	0.46	12	1-7/8	2.72	60	

**16E78 SAE Code 62 Flange Head  
30° Elbow - ISO 12151-3 - E30S - S  
(1 Piece: ISO 12151-3 - E30M - S)**

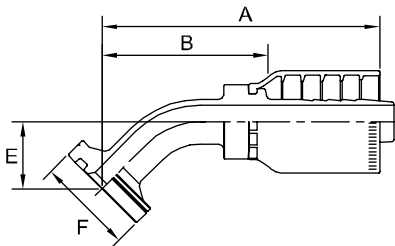
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number											
16E78-12-12	3/4	-12	3/4	-12	4.31	109	0.59	15	1-5/8	2.55	65	
16E78-16-16	1	-16	1	-16	4.97	109	0.75	19	1-7/8	3.12	79	
16E78-20-20	1-1/4	-20	1-1/4	-20	6.71	170	0.87	22	2-1/8	4.32	110	
16E78-24-24	1-1/2	-24	1-1/2	-24	7.10	180	1.12	28	2-1/2	4.89	124	
16E78-32-32	2	-32	2	-32	8.80	224	1.41	36	3-1/8	6.23	158	

**16F78 SAE Code 62 Flange Head  
45° Elbow - ISO 12151-3 - E45S - S  
(1 Piece: ISO 12151-3 - E45M - S)**

Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number											
16F78-12-12	3/4	-12	3/4	-12	4.31	109	1.02	26	1-5/8	2.55	65	
16F78-16-12	1	-16	3/4	-12	4.83	123	1.22	31	1-7/8	3.07	78	
16F78-16-16	1	-16	1	-16	5.04	128	1.26	32	1-7/8	3.19	81	
16F78-20-16	1-1/4	-20	1	-16	5.01	127	1.26	32	2-1/8	3.16	80	
16F78-20-20	1-1/4	-20	1-1/4	-20	6.39	162	1.50	38	2-1/8	4.00	102	
16F78-24-20	1-1/2	-24	1-1/4	-20	6.39	162	1.50	38	2-1/2	4.00	102	
16F78-24-24	1-1/2	-24	1-1/2	-24	6.99	178	1.73	44	2-1/2	4.78	121	
16F78-32-32	2	-32	2	-32	8.41	214	2.21	56	3-1/8	5.84	148	

Hose  
**A**

Fittings  
78 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

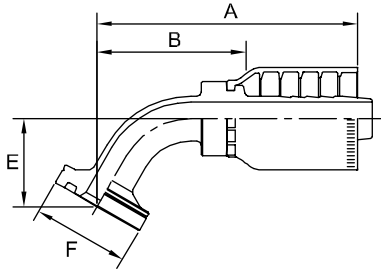
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**16G78 SAE Code 62 Flange Head  
60° Elbow - ISO 12151-3 - E60S - S  
(1 Piece: ISO 12151-3 - E60M - S)**

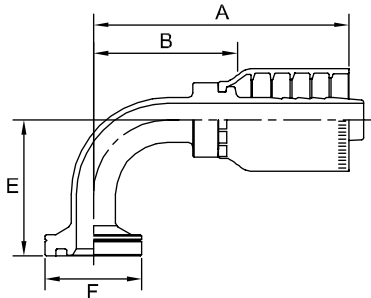
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	Part Number											
16G78-12-12	3/4	-12	3/4	-12	5.10	130	1.31	33	1-5/8	3.34	85	
16G78-16-16	1	-16	1	-16	5.85	149	1.73	44	1-7/8	4.00	102	
16G78-20-20	1-1/4	-20	1-1/4	-20	7.72	196	2.17	55	2-1/8	5.33	135	
16G78-24-24	1-1/2	-24	1-1/2	-24	8.41	214	2.52	64	2-1/2	6.20	157	

**16N78 SAE Code 62 Flange Head  
90° Elbow - ISO 12151-3 - E90S - S  
(1 Piece: ISO 12151-3 - E90M - S)**

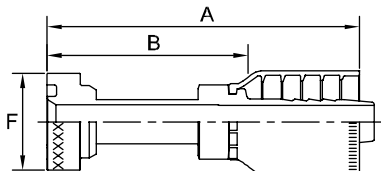
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm	
	Part Number											
16N78-12-12	3/4	-12	3/4	-12	4.00	102	2.28	58	1-5/8	2.24	57	
16N78-16-12	1	-16	3/4	-12	3.97	101	2.28	58	1-7/8	2.21	56	
16N78-16-16	1	-16	1	-16	4.63	118	2.76	70	1-7/8	2.78	71	
16N78-20-16	1-1/4	-20	1	-16	4.63	118	2.76	70	2-1/8	2.78	71	
16N78-20-20	1-1/4	-20	1-1/4	-20	6.09	155	3.54	90	2-1/8	3.70	94	
16N78-24-16	1-1/2	-24	1	-16	5.04	126	2.70	69	2-1/2	3.19	81	
16N78-24-20	1-1/2	-24	1-1/4	-20	6.09	155	3.54	90	2-1/2	3.70	94	
16N78-24-24	1-1/2	-24	1-1/2	-24	6.52	166	4.09	104	2-1/2	4.31	109	
16N78-32-24	2	-32	1-1/2	-24	6.52	166	4.09	104	3-1/8	4.31	109	
16N78-32-32	2	-32	2	-32	7.82	199	5.43	138	3-1/8	5.25	133	

**1XA78 Caterpillar® Flange Head  
Straight**

Note: Seals listed in Section F.  
Note: **Caterpillar® style** fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are larger than SAE Code 62 and measure .560" thickness in all sizes.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	inch	mm	
	Part Number									
1XA78-12-12	3/4	-12	3/4	-12	4.85	123	1-5/8	3.09	78	
1XA78-16-12	1	-16	3/4	-12	3.38	85	1-7/8	1.62	41	
1XA78-16-16	1	-16	1	-16	5.44	138	1-7/8	3.59	91	
1XA78-20-16	1-1/4	-20	1	-16	3.56	90	2-1/8	1.71	43	
1XA78-20-20	1-1/4	-20	1-1/4	-20	6.10	154	2-1/8	3.71	94	
1XA78-24-20	1-1/2	-24	1-1/4	-20	4.34	110	2-1/2	1.95	49	
1XA78-24-24	1-1/2	-24	1-1/2	-24	6.78	172	2-1/2	4.57	116	
1XA78-32-32	2	-32	2	-32	7.63	193	3-1/8	5.06	128	

Hose  
A

Fittings  
78 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

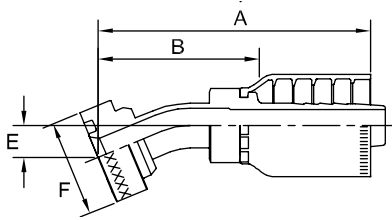
Adapters  
E

Accessories  
F

Appendices  
G

### 1XB78 Caterpillar® Flange Head 22½° Elbow

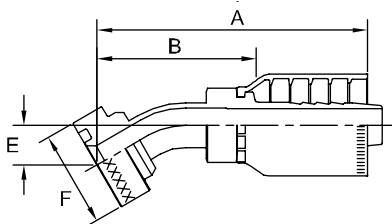
Note: Seals listed in Section F.  
Note: **Caterpillar® style** fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are larger than SAE Code 62 and measure .560" thickness in all sizes.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1XB78-12-12	3/4	-12	3/4	-12	4.59	117	0.54	14	1-5/8	2.83	72	
1XB78-16-12	1	-16	3/4	-12	4.57	116	0.53	13	1-7/8	2.81	71	
1XB78-16-16	1	-16	1	-16	4.66	118	0.50	13	1-7/8	2.81	71	
1XB78-20-16	1-1/4	-20	1	-16	4.66	118	0.50	13	2-1/8	2.81	71	
1XB78-20-20	1-1/4	-20	1-1/4	-20	7.21	183	0.80	20	2-1/8	4.82	122	
1XB78-24-20	1-1/2	-24	1-1/4	-20	7.21	183	0.80	20	2-1/2	4.82	122	
1XB78-24-24	1-1/2	-24	1-1/2	-24	7.08	180	0.73	19	2-1/2	4.87	124	

### 1XE78 Caterpillar® Flange Head 30° Elbow

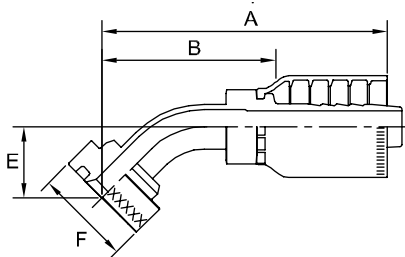
Note: Seals listed in Section F.  
Note: **Caterpillar® style** fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are larger than SAE Code 62 and measure .560" thickness in all sizes.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1XE78-12-12	3/4	-12	3/4	-12	4.66	118	0.74	19	1-5/8	2.90	74	
1XE78-16-12	1	-16	3/4	-12	4.64	118	0.73	18	1-7/8	2.88	73	
1XE78-16-16	1	-16	1	-16	5.08	129	0.79	20	1-7/8	3.23	82	
1XE78-20-16	1-1/4	-20	1	-16	5.10	128	0.80	20	2-1/8	3.25	83	
1XE78-20-20	1-1/4	-20	1-1/4	-20	6.38	162	0.93	24	2-1/8	3.99	101	
1XE78-24-20	1-1/2	-24	1-1/4	-20	6.38	162	0.93	24	2-1/2	3.99	101	
1XE78-24-24	1-1/2	-24	1-1/2	-24	7.10	180	1.14	29	2-1/2	4.89	124	

### 1XF78 Caterpillar® Flange Head 45° Elbow

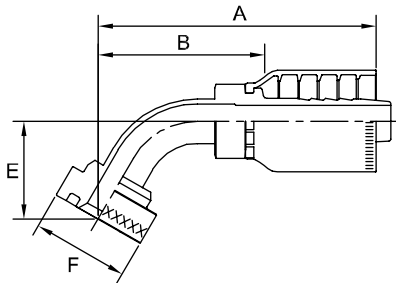
Note: Seals listed in Section F.  
Note: **Caterpillar® style** fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are larger than SAE Code 62 and measure .560" thickness in all sizes.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1XF78-12-12	3/4	-12	3/4	-12	4.82	122	1.21	31	1-5/8	3.06	78	
1XF78-16-12	1	-16	3/4	-12	4.81	120	1.20	30	1-7/8	3.05	77	
1XF78-16-16	1	-16	1	-16	5.46	139	1.43	36	1-7/8	3.61	92	
1XF78-20-16	1-1/4	-20	1	-16	5.46	139	1.43	36	2-1/8	3.61	92	
1XF78-20-20	1-1/4	-20	1-1/4	-20	6.38	162	1.44	37	2-1/8	3.99	101	
1XF78-24-20	1-1/2	-24	1-1/4	-20	6.38	162	1.44	37	2-1/2	3.99	101	
1XF78-24-24	1-1/2	-24	1-1/2	-24	6.89	175	1.54	39	2-1/2	4.68	119	
1XF78-32-24	2	-32	1-1/2	-24	7.03	179	1.71	43	3-1/8	4.82	122	
1XF78-32-32	2	-32	2	-32	8.78	223	2.43	62	3-1/8	6.21	158	

**1XG78 Caterpillar® Flange Head  
60° Elbow**

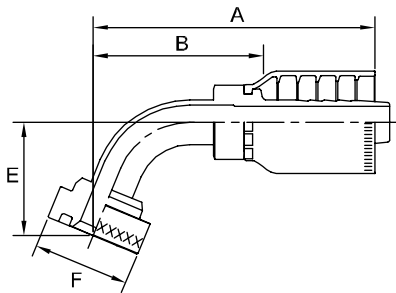
Note: Seals listed in Section F.  
Note: **Caterpillar® style** fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are larger than SAE Code 62 and measure .560" thickness in all sizes.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
1XG78-16-12	1	-16	3/4	-12	4.73	120	1.63	41	1-7/8	2.97	75	
1XG78-16-16	1	-16	1	-16	5.13	130	1.96	50	1-7/8	3.28	83	
1XG78-20-16	1-1/4	-20	1	-16	5.13	130	1.96	50	2-1/8	3.28	83	
1XG78-20-20	1-1/4	-20	1-1/4	-20	6.72	171	2.02	51	2-1/8	4.33	110	
1XG78-24-20	1-1/2	-24	1-1/4	-20	6.72	171	2.02	51	2-1/2	4.33	110	

**1XM78 Caterpillar® Flange Head  
67½° Elbow**

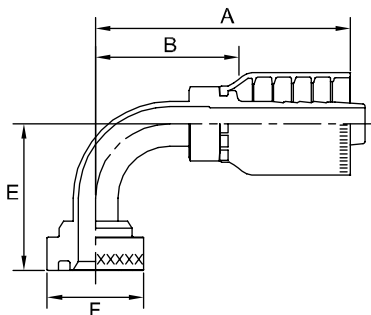
Note: Seals listed in Section F.  
Note: **Caterpillar® style** fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are larger than SAE Code 62 and measure .560" thickness in all sizes.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
1XM78-16-12	1	-16	3/4	-12	4.58	116	1.83	41	1-7/8	2.88	73	
1XM78-16-16	1	-16	1	-16	5.14	131	2.05	52	1-7/8	3.35	85	
1XM78-20-16	1-1/4	-20	1	-16	5.15	131	2.06	52	2-1/8	3.36	85	
1XM78-20-20	1-1/4	-20	1-1/4	-20	5.91	150	2.03	52	2-1/8	3.45	88	
1XM78-24-20	1-1/2	-24	1-1/4	-20	5.91	150	2.03	52	2-1/2	3.45	88	

**1XN78 Caterpillar® Flange Head  
90° Elbow**

Note: Seals listed in Section F.  
Note: **Caterpillar® style** fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are larger than SAE Code 62 and measure .560" thickness in all sizes.



#	Flange		Hose		A		E		F		B	
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	mm	
1XN78-12-12	3/4	-12	3/4	-12	4.35	110	2.46	62	1-5/8	2.59	66	
1XN78-12-16	3/4	-12	1	-16	4.58	116	2.46	62	1-5/8	2.73	69	
1XN78-16-12	1	-16	3/4	-12	4.35	110	2.44	62	1-7/8	2.59	66	
1XN78-16-16	1	-16	1	-16	5.04	128	2.9	74	1-7/8	3.19	81	
1XN78-20-16	1-1/4	-20	1	-16	5.04	128	2.9	74	2-1/8	3.19	81	
1XN78-20-20	1-1/4	-20	1-1/4	-20	6.75	171	3.02	77	2-1/8	4.36	111	
1XN78-24-20	1-1/2	-24	1-1/4	-20	6.75	171	3.02	77	2-1/2	4.36	111	
1XN78-24-24	1-1/2	-24	1-1/2	-24	5.85	149	3.41	87	2-1/2	3.64	92	
1XN78-32-24	2	-32	1-1/2	-24	5.85	149	3.64	92	3-1/8	3.64	92	
1XN78-32-32	2	-32	2	-32	8.78	223	5.25	133	3-1/8	6.21	158	

Hose  
A

Fittings  
78 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

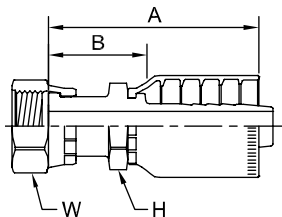
Adapters  
E

Accessories  
F

Appendices  
G

**1JS78 Female Seal-Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB**

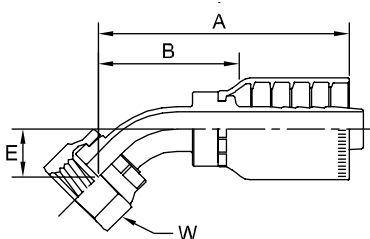
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		H		W		B	
	inch			inch		inch	mm	inch	inch	inch	mm	inch	mm
1JS78-12-12	3/4	1-3/16x12	-12	3/4	-12	3.70	94	1-1/8	1-3/8	1.94	49		
1JS78-16-16	1	1-7/16x12	-16	1	-16	4.03	102	1-3/8	1-5/8	2.18	55		
1JS78-20-16	1-1/4	1-11/16x12	-20	1	-16	3.99	101	1-3/4	1-7/8	2.14	54		
1JS78-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	4.62	117	1-3/4	1-7/8	2.23	57		
1JS78-24-24	1-1/2	2-12	-24	1-1/2	-24	4.70	119	2	2-1/4	2.49	63		
1JS78-32-32	2	2-1/2x12	-32	2	-32	5.85	149	2-1/2	2-7/8	3.28	83		

**1J778 Female Seal-Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45**

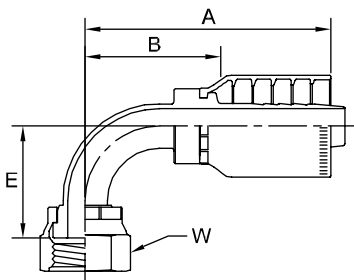
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm
1J778-12-12	3/4	1-3/16x12	-12	3/4	-12	4.11	104	0.81	21	1-3/8	2.35	60	
1J778-16-16	1	1-7/16x12	-16	1	-16	4.69	119	0.94	24	1-5/8	2.84	72	
1J778-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	5.78	147	0.98	25	1-7/8	3.29	84	
1J778-24-24	1-1/2	2x12	-24	1-1/2	-24	6.91	176	1.56	40	2-1/4	4.70	119	

**1J978 Female Seal-Lok® - Swivel  
90° Elbow - Short Drop  
ISO 12151-1 - SWES**

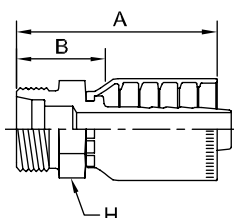
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	mm
1J978-12-12	3/4	1-3/16x12	-12	3/4	-12	3.97	100	1.89	48	1-3/8	2.21	56	
1J978-16-16	1	1-7/16x12	-16	1	-16	4.62	117	2.21	56	1-5/8	2.77	70	
1J978-20-16	1-1/4	1-11/16x12	-20	1	-16	5.04	128	2.54	65	1-7/8	3.10	81	
1J978-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	5.82	148	2.52	64	1-7/8	3.43	87	
1J978-24-24	1-1/2	2x12	-24	1-1/2	-24	6.58	167	2.70	69	2-1/4	4.37	111	

**1D278 Male Metric S - Rigid  
Straight (24° Cone)  
ISO 12151-2 - S - S**

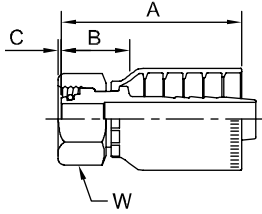
Note: Mates with EO "S" Series Fittings.



#	Thread			Hose		A		H		B	
	mm			inch		inch	mm	mm	mm	inch	mm
1D278-25-12	25	M36x2	-25	3/4	-12	3.38	86	36	1.62	41	
1D278-30-16	30	M42x2	-30	1	-16	3.72	94	46	1.87	47	
1D278-38-20	38	M52x2	-38	1-1/4	-20	4.42	112	55	2.03	52	

**1C978 Female Metric S - Swivel Straight (24° Cone with O-Ring)**  
**ISO 12151-2 - SWS - S**

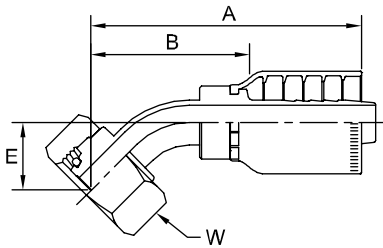
Note: Mates with EO "S" Series Fittings.  
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread			Hose		A		C		W	B	
	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm		
1C978-25-12	25	M36x2	-25	3/4	-12	3.12	79	0.10	3	46	1.36	35
1C978-30-16	30	M42x2	-30	1	-16	3.40	86	0.19	5	50	1.55	39
1C978-38-20	38	M52x2	-38	1-1/4	-20	3.98	101	0.23	6	60	1.59	40

**10C78 Female Metric S - Swivel 45° Elbow (24° Cone with O-Ring)**  
**ISO 12151-2 - SWE45 - S**

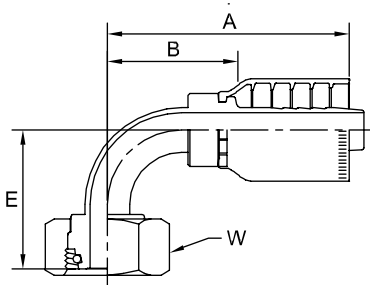
Note: Mates with EO "S" Series Fittings.



#	Thread			Hose		A		E		W	B	
	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	mm	
10C78-25-12	25	M36x2	-25	3/4	-12	4.45	113	1.14	29	46	2.56	65
10C78-30-16	30	M42x2	-30	1	-16	5.16	131	1.34	34	50	3.19	81
10C78-38-20	38	M52x2	-38	1-1/4	-20	6.44	164	1.50	38	60	4.05	103

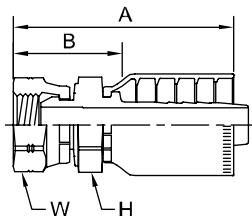
**11C78 Female Metric S - Swivel 90° Elbow (24° Cone with O-Ring)**  
**ISO 12151-2 - SWE - S**

Note: Mates with EO "S" Series Fittings.



#	Thread			Hose		A		E		W	B	
	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	mm	
11C78-25-12	25	M36x2	-25	3/4	-12	4.12	105	2.32	59	46	2.36	60
11C78-30-16	30	M42x2	-30	1	-16	4.71	120	2.68	68	50	2.86	73
11C78-38-20	38	M52x2	-38	1-1/4	-20	5.67	144	2.86	73	60	3.28	83

**1GU78 Female BSP Parallel Pipe Swivel - Straight (60° Cone)**



#	Thread			Hose		A		H	W	B	
	inch	inch	mm	inch	mm	mm	mm	mm	inch	mm	
1GU78-12-12	3/4x14	-12	3/4	-12	3.76	96	36	36	2.00	51	
1GU78-16-16	1x11	-16	1	-16	4.14	105	41	41	2.29	58	

Hose  
A

Fittings  
78 Series  
B


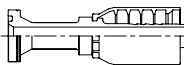
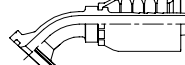
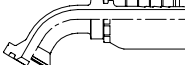
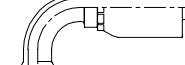

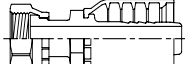
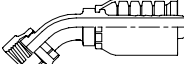
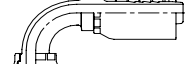
Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

Appendices  
G

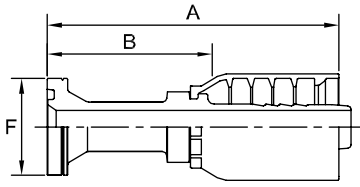
 <p><b>Code 62 Flange</b></p>	<p>16A79 B-94</p>  <p><i>Straight</i></p>	<p>16F79 B-94</p>  <p><i>45° Elbow</i></p>	<p>16G79 B-94</p>  <p><i>60° Elbow</i></p>	<p>16N79 B-95</p>  <p><i>90° Elbow</i></p>	 <p><b>Seal-Lok®</b></p>	
<p>1JS79 B-95</p>  <p><i>Female - Swivel Straight - Long</i></p>	<p>1J779 B-95</p>  <p><i>Female - Swivel 45° Elbow</i></p>	<p>1J979 B-96</p>  <p><i>Female - Swivel 90° Elbow</i></p>				

<p>Hose</p> <p><b>A</b></p>
<p>Fittings 79 Series</p> <p><b>B</b></p>
<p>Parkrimp Crimping Equipment</p> <p><b>C</b></p>
<p>Hose Assembly Equipment</p> <p><b>D</b></p>
<p>Adapters</p> <p><b>E</b></p>
<p>Accessories</p> <p><b>F</b></p>
<p>Appendices</p> <p><b>G</b></p>



**16A79 SAE Code 62 Flange Head  
Straight - ISO 12151-3 - S - S**

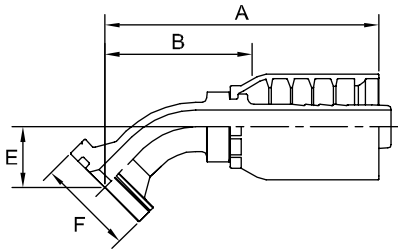
Note: Flange kits and O-Rings listed in Section F.



# Part Number	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch		inch	mm
16A79-12-12	3/4	-12	3/4	-12	4.90	124	1-5/8		2.84	72
16A79-16-12	1	-16	3/4	-12	3.88	99	1-7/8		1.82	46
16A79-16-16	1	-16	1	-16	5.48	139	1-7/8		3.31	84
16A79-20-16	1-1/4	-20	1	-16	4.28	109	2-1/8		2.11	54
16A79-20-20	1-1/4	-20	1-1/4	-20	6.09	155	2-1/8		3.41	87

**16F79 SAE Code 62 Flange Head  
45° Elbow - ISO 12151-3 - E45S - S  
(1 Piece: ISO 12151-3 - E45M - S)**

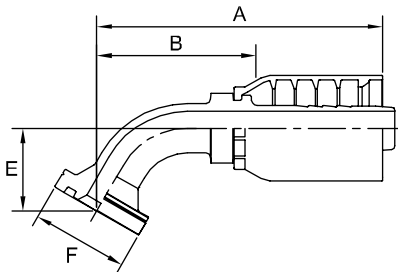
Note: Flange kits and O-Rings listed in Section F.



# Part Number	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch		inch	mm
16F79-12-12	3/4	-12	3/4	-12	4.61	117	1.02	26	1-5/8		2.55	65
16F79-16-16	1	-16	1	-16	5.33	135	1.26	32	1-7/8		3.16	80
16F79-20-16	1-1/4	-20	1	-16	5.33	135	1.26	32	2-1/8		3.16	80
16F79-20-20	1-1/4	-20	1-1/4	-20	6.77	172	1.5	38	2-1/8		4.09	104

**16G79 SAE Code 62 Flange Head  
60° Elbow - ISO 12151-3 - E60S - S  
(1 Piece: ISO 12151-3 - E60M - S)**

Note: Flange kits and O-Rings listed in Section F.



# Part Number	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch		inch	mm
16G79-16-16	1	-16	1	-16	6.18	157	1.73	44	1-7/8		4.01	102

Hose  
A

Fittings  
79 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

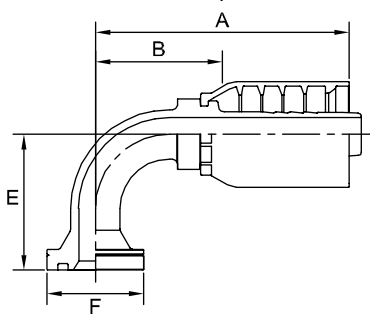
Adapters  
E

Accessories  
F

Appendices  
G

**16N79 SAE Code 62 Flange Head  
90° Elbow - ISO 12151-3 - E90S - S  
(1 Piece: ISO 12151-3 - E90M - S)**

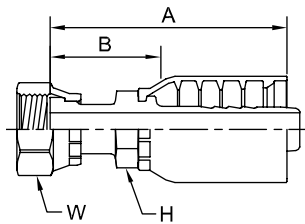
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
16N79-12-12	3/4	-12	3/4	-12	4.27	108	2.28	58	1-5/8	2.21	56	
16N79-16-12	1	-16	3/4	-12	4.27	108	2.28	58	1-7/8	2.21	56	
16N79-16-16	1	-16	1	-16	4.95	126	2.76	70	1-7/8	2.78	71	
16N79-20-16	1-1/4	-20	1	-16	4.95	126	2.76	70	2-1/8	2.78	71	
16N79-20-20	1-1/4	-20	1-1/4	-20	6.31	160	3.54	90	2-1/8	3.63	92	

**1JS79 Female Seal-Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB**

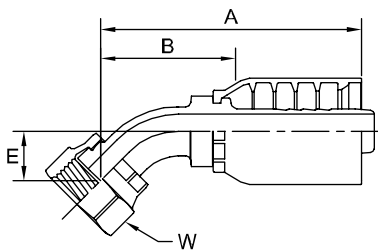
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H	W	B		
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
1JS79-12-12	3/4	1-3/16x12	-12	3/4	-12	3.99	101	1-1/8	1-3/8	1.93	49
1JS79-16-12	1	1-7/16x12	-16	3/4	-12	4.26	108	1-3/8	1-5/8	2.20	56
1JS79-16-16	1	1-7/16x12	-16	1	-16	4.45	113	1-3/8	1-5/8	2.28	58
1JS79-20-16	1-1/4	1-11/16x12	-20	1	-16	4.32	110	1-3/4	1-7/8	2.15	55
1JS79-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	5.00	127	1-3/4	1-7/8	2.32	59

**1J779 Female Seal-Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B		
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
1J779-12-12	3/4	1-3/16x12	-12	3/4	-12	4.40	112	0.83	21	1-3/8	2.34	59
1J779-16-16	1	1-7/16x12	-16	1	-16	5.01	127	0.94	24	1-5/8	2.84	72
1J779-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	6.15	156	1.00	25	1-7/8	3.49	89

Hose  
A

Fittings  
79 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

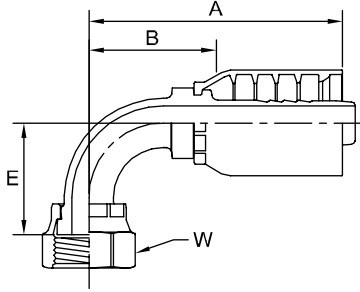
Adapters  
E

Accessories  
F

Appendices  
G

**1J979 Female Seal-Lok® - Swivel  
90° Elbow - Short Drop  
ISO 12151 - SWES**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
	Part Number											
1J979-12-12	3/4	1-3/16x12	-12	3/4	-12	4.27	108	1.88	48	1-3/8	2.21	56
1J979-16-16	1	1-7/16x12	-16	1	-16	4.95	126	2.21	56	1-5/8	2.78	71
1J979-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	6.20	157	2.52	64	1-7/8	3.52	89

Hose  
**A**

Fittings  
79 Series  
**B**


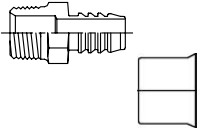
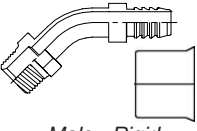
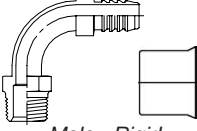

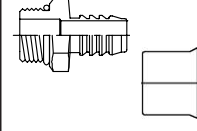

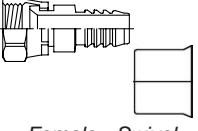

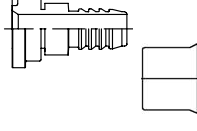
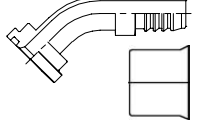
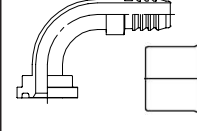

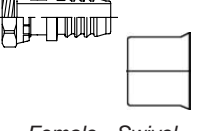
Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

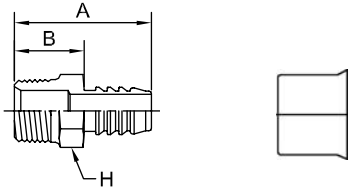
 <p><b>NPTF Pipe</b></p>	<p>10081 &amp; 0188 B-98</p>  <p>Male - Rigid - Straight</p>	<p>10081 &amp; 3188 B-98</p>  <p>Male - Rigid 45° Elbow</p>	<p>10081 &amp; 2188 B-98</p>  <p>Male - Rigid 90° Elbow</p>	 <p><b>Straight Thread O-Ring</b></p>	<p>10081 &amp; 0588 B-99</p>  <p>Male - Rigid - Straight</p>
 <p><b>JIC 37°</b></p>	<p>10081 &amp; 0688 B-99</p>  <p>Female - Swivel Straight</p>	 <p><b>Code 61 Flange</b></p>	<p>10081 &amp; 1588 B-99</p>  <p>Straight</p>	<p>10081 &amp; 1788 B-100</p>  <p>45° Elbow</p>	<p>10081 &amp; 1988 B-100</p>  <p>90° Elbow</p>
 <p><b>Seal-Lok®</b></p>	<p>10081 &amp; JS88 B-100</p>  <p>Female - Swivel Straight - Long</p>				

A	Hose
B	Fittings 81 Series
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices

**10081 Shell & 0188 Male NPTF Pipe  
Rigid - Straight**

Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.

Hose  
**A**



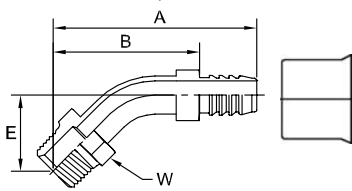
# 81 Series Part Number	# 88 Series Part Number	Thread		Hose		A		H		B	
		inch		inch		inch	mm	inch	inch	inch	mm
		10081-12	0188-12-12	3/4x14	-12	3/4	-12	2.25	57	1-1/8	1.13
10081-16	0188-16-16	1x11-1/2	-16	1	-16	2.75	70	1-3/8	1.37	35	
10081-20	0188-20-20	1-1/4x11-1/2	-20	1-1/4	-20	3.05	77	1-3/4	1.47	37	
10081-24	0188-20-24	1-1/4x11-1/2	-20	1-1/2	-24	3.21	82	1-3/4	1.47	37	
10081-24	0188-24-24	1-1/2x11-1/2	-24	1-1/2	-24	3.24	82	2	1.5	38	
10081-32	0188-32-32	2x11-1/2	-32	2	-32	3.49	89	2-1/2	1.66	42	

Fittings  
81 Series  
**B**

**10081 Shell & 3188 Male NPTF Pipe  
Rigid - 45° Elbow**

Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.

Parkrimp  
Crimping  
Equipment  
**C**



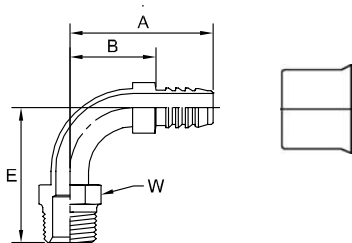
# 81 Series Part Number	# 88 Series Part Number	Thread		Hose		A		E		W		B	
		inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
		10081-16	3188-16-16	1x11-1/2	-16	1	-16	4.12	105	1.63	41	1-3/8	2.74
10081-20	3188-20-20	1-1/4x11-1/2	-20	1-1/4	-20	4.54	115	1.77	45	1-3/4	2.96	75	

Hose  
Assembly  
Equipment  
**D**

**10081 Shell & 2188 Male NPTF Pipe  
Rigid - 90° Elbow**

Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.

Adapters  
**E**



# Part Number	# Part Number	Thread		Hose		A		E		W		B	
		inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
		10081-12	2188-12-12	3/4x14	-12	3/4	-12	2.83	72	2.67	68	1-1/8	1.70
10081-16	2188-16-16	1x11-1/2	-16	1	-16	3.35	85	3.18	81	1-3/8	1.97	50	
10081-20	2188-20-20	1-1/4x11-1/2	-20	1-1/4	-20	3.80	97	3.41	87	1-3/4	2.21	56	
10081-24	2188-24-24	1-1/2x11-1/2	-24	1-1/2	-24	4.20	107	3.61	92	2	2.46	62	
10081-32	2188-32-32	2x11-1/2	-32	2	-32	4.86	123	4.23	107	2-1/2	3.03	77	

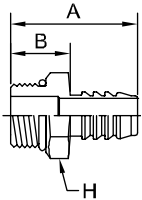
Accessories  
**F**

Appendices  
**G**



### 10081 Shell & 0588 Male SAE Straight Thread with O-Ring - Rigid Straight

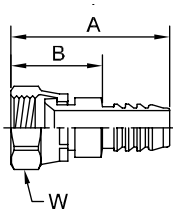
Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.



# Part Number	# Part Number	Thread		Hose		A		H	B	
		inch		inch		inch	mm	inch	inch	mm
10081-12	0588-12-12	1-1/16x12	-12	3/4	-12	2.13	54	1-1/4	1.00	25
10081-16	0588-16-16	1-5/16x12	-16	1	-16	2.38	60	1-1/2	1.00	25
10081-20	0588-20-20	1-5/8x12	-20	1-1/4	-20	2.59	66	1-7/8	1.00	25

### 10081 Shell & 0688 Female JIC 37° Swivel - Straight

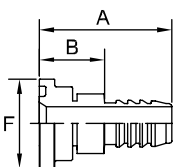
Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.



# Part Number	# Part Number	Thread			Hose		A		W	B	
		inch			inch		inch	mm	inch	inch	mm
10081-12	0688-12-12	3/4	1-1/16x12	-12	3/4	-12	2.66	68	1-1/4	1.53	39
10081-16	0688-16-16	1	1-5/16x12	-16	1	-16	2.72	69	1-1/2	1.34	34
10081-20	0688-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.34	85	2	1.75	44
10081-24	0688-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	3.67	93	2-1/4	1.93	49
10081-32	0688-32-32	2	2-1/2x12	-32	2	-32	4.14	105	2-7/8	2.31	59

### 10081 Shell & 1588 SAE Code 61 Flange Head - Straight ISO 12151-3-S-L

Note: Flange kits and O-Rings listed in Section F.  
Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.



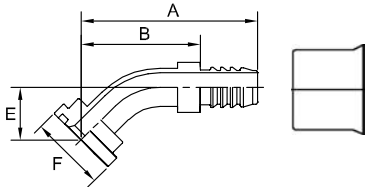
# Part Number	# Part Number	Flange		Hose		A		F	B	
		inch		inch		inch	mm	inch	inch	mm
10081-16	1588-16-16	1	-16	1	-16	2.57	65	1-3/4	1.19	30
10081-20	1588-20-20	1-1/4	-20	1-1/4	-20	3.37	86	2	1.78	45
10081-24	1588-24-24	1-1/2	-24	1-1/2	-24	3.78	96	2-3/8	2.04	52
10081-32	1588-32-32	2	-32	2	-32	4.32	110	2-13/16	2.49	63

Hose	A
Fittings 81 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose  
**A**

**10081 Shell & 1788 SAE Code 61  
Flange Head - 45° Elbow  
ISO 12151-3-E45S-L  
(1 Piece: ISO 12151-3-E45M-L)**

Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.



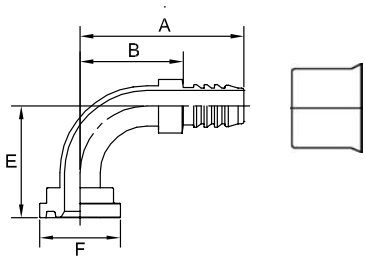
#	#	Flange		Hose		A		E		F		B	
		Part Number	Part Number	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
10081-16	1788-16-16	1	-16	1	-16	3.55	90	1.06	27	1-3/4	2.17	55	
10081-20	1788-20-20	1-1/4	-20	1-1/4	-20	3.90	99	1.13	29	2	2.31	59	
10081-24	1788-24-24	1-1/2	-24	1-1/2	-24	4.15	105	1.11	28	2-3/8	2.41	61	
10081-32	1788-32-32	2	-32	2	-32	4.58	116	1.25	32	2-13/16	2.75	70	

Fittings  
81 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

**10081 Shell & 1988 SAE Code 61  
Flange Head - 90° Elbow  
ISO 12151-3-E90S-L  
(1 Piece: 12151-3-E90M-L)**

Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.



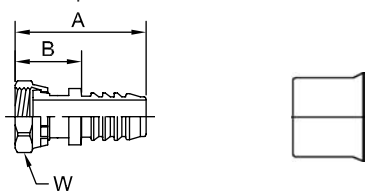
#	#	Flange		Hose		A		E		F		B	
		Part Number	Part Number	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
10081-16	1988-16-16	1	-16	1	-16	3.35	85	2.37	60	1-3/4	1.97	50	
10081-20	1988-20-20	1-1/4	-20	1-1/4	-20	3.80	97	2.50	64	2	2.21	56	
10081-24	1988-24-24	1-1/2	-24	1-1/2	-24	4.20	107	2.74	70	2-3/8	2.46	62	
10081-32	1988-32-32	2	-32	2	-32	4.86	123	3.19	81	2-13/16	3.03	77	

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

**10081 Shell & JS88 Female Seal-Lok® Swivel Straight - Long**


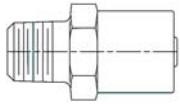
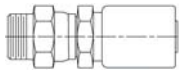
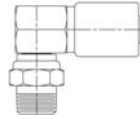
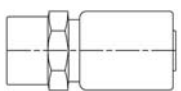

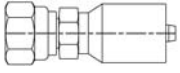


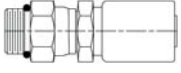
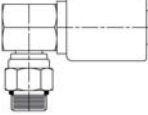

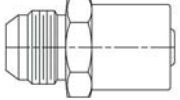
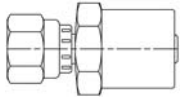
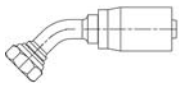
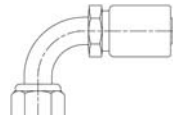



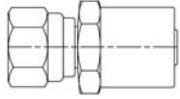
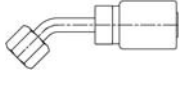
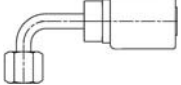

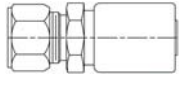

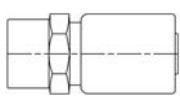

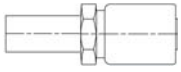

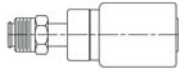
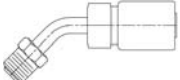
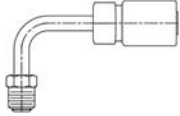
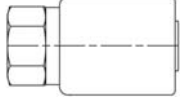



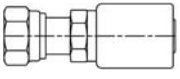
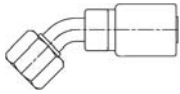
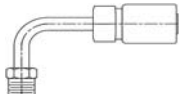
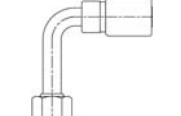

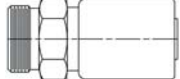

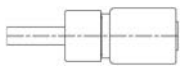




Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: 81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Section C for complete 81 Series Assembly and Crimping instructions.



#	#	Thread			Hose		A		W		B	
		Part Number	Part Number	inch	inch	inch	mm	inch	inch	inch	mm	
10081-24	JS88-24-24	1-1/2	2x12	-24	1-1/2	-24	3.47	88	2-1/4	1.73	44	

Accessories  
**F**

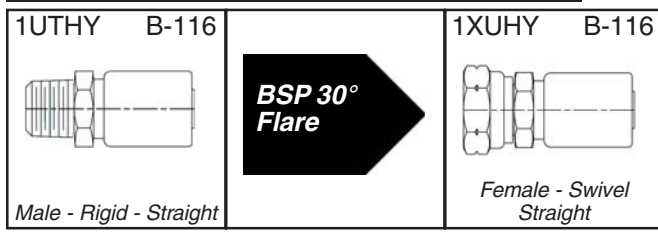
Appendices  
**G**

 <b>NPTF Pipe</b>	101HY B-103  Male - Rigid - Straight	113HY B-103  Male - Swivel Straight	11LHY B-104  Male - Swivel 90° Elbow	102HY B-104  Female - Rigid Straight	 <b>NPSM Pipe</b>
107HY B-104  Female - Swivel Straight	 <b>Straight Thread O-Ring</b>	105HY B-105  Male - Rigid - Straight	10GHY B-105  Male - Swivel Straight	10LHY B-106  Male - Swivel 90° Elbow	 <b>JIC 37°</b>
103HY B-106  Male - Rigid - Straight	106HY B-107  Female - Swivel Straight	137HY B-107  Female - Swivel 45° Elbow - Short	139HY B-108  Female - Swivel 90° Elbow - Short	141HY B-108  Female - Swivel 90° Elbow - Long	193HY B-108  Female - Swivel 90° Elbow - Block Type
 <b>SAE 45°</b>	108HY B-109  Female - Swivel Straight	177HY B-109  Female - Swivel 45° Elbow	179HY B-109  Female - Swivel 90° Elbow	 <b>Flareless</b>	111HY B-110  Male - Rigid - Straight
 <b>Grease Connection</b>	1GJHY B-110  Female - Rigid Straight	 <b>Standpipe</b>	134HY B-110  Male - Rigid - Straight	 <b>Inverted Flare</b>	128HY B-111  Male - Swivel Straight
167HY B-111  Male - Swivel 45° Elbow	169HY B-111  Male - Swivel 90° Elbow	129HY B-112  Female - Rigid Straight	 <b>Seal-Lok®</b>	1J0HY B-112  Male - Rigid - Straight	1JCHY B-112  Female - Swivel Straight - Short
1JSHY B-113  Female - Swivel Straight - Long	1J7HY B-113  Female - Swivel 45° Elbow	1J9HY B-114  Female - Swivel 90° Elbow	1J1HY B-114  Female - Swivel 90° Elbow - Long	 <b>DIN "L" Series</b>	1D0HY B-115  Male - Rigid - Straight
 <b>DIN "S" Series</b>	13DHY B-115  Male - Rigid - Straight	 <b>BSP</b>	1D9HY B-115  Male - Rigid - Straight	1GUHY B-116  Female - Swivel Straight	 <b>BSP 60° Cone</b>

Hose	<b>A</b>
Fittings HY Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

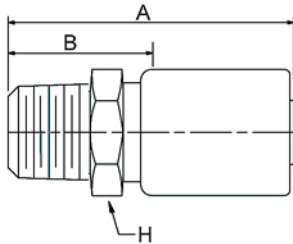


Hose <b>A</b>
Fittings HY Series <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
Hose Assembly Equipment <b>D</b>
Adapters <b>E</b>
Accessories <b>F</b>
Appendices <b>G</b>



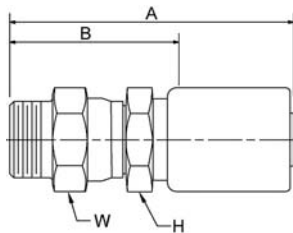
**101HY (HY-MP) Male NPTF Pipe  
Rigid - Straight**

Note: "C303" - Stainless Steel Fitting  
Note: Crimp diameters for stainless steel fittings are .005 (.13mm) greater than listed. Must be crimped with Karrykrimp 2, PHastkrimp or Parkrimp 2.



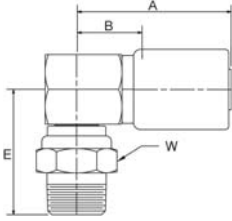
#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
	inch		inch		inch	mm	inch	inch	inch	mm
101HY-2-4	1/8x27	-2	1/4	-4	2.34	59	5/8	1.00	25	
101HY-4-4	1/4x18	-4	1/4	-4	2.53	64	9/16	1.19	30	
101HY-4-4C303	1/4x18	-4	1/4	-4	2.53	64	9/16	1.19	30	
101HY-4-6	1/4x18	-4	3/8	-6	2.55	65	11/16	1.19	30	
101HY-6-4	3/8x18	-6	1/4	-4	2.53	64	3/4	1.19	30	
101HY-6-6	3/8x18	-6	3/8	-6	2.55	65	3/4	1.19	30	
101HY-6-6C303	3/8x18	-6	3/8	-6	2.55	65	3/4	1.19	30	
101HY-8-4	1/2x14	-8	1/4	-4	2.72	69	7/8	1.38	35	
101HY-8-6	1/2x14	-8	3/8	-6	2.73	69	7/8	1.38	35	
101HY-8-8	1/2x14	-8	1/2	-8	2.91	74	7/8	1.56	40	
101HY-8-8C303	1/2x14	-8	1/2	-8	2.91	74	7/8	1.56	40	
101HY-8-10	1/2x14	-8	5/8	-10	2.94	75	1-1/8	1.59	40	
101HY-8-12	1/2x14	-8	3/4	-12	3.08	78	1-1/4	1.50	38	
101HY-12-8	3/4x14	-12	1/2	-8	2.91	74	1-1/16	1.56	40	
101HY-12-10	3/4x14	-12	5/8	-10	2.98	76	1-1/8	1.59	40	
101HY-12-12	3/4x14	-12	3/4	-12	3.08	78	1-1/4	1.50	38	
101HY-12-12C303	3/4x14	-12	3/4	-12	3.08	78	1-1/4	1.50	38	
101HY-12-16	3/4x14	-12	1	-16	3.23	82	1-3/8	1.63	41	
101HY-16-12	1x11-1/2	-16	3/4	-12	3.27	83	1-3/8	1.69	43	
101HY-16-16	1x11-1/2	-16	1	-16	3.42	87	1-3/8	1.81	46	
101HY-16-16C303	1x11-1/2	-16	1	-16	3.42	87	1-3/8	1.81	46	

**113HY (HY-MS and HY-SP) Male NPTF  
Pipe - Swivel - Straight**



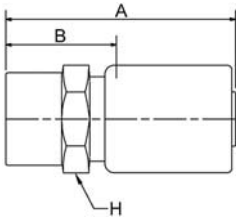
#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
	inch		inch		inch	mm	inch	inch	inch	mm
113HY-2-4	1/8x27	-2	1/4	-4	2.97	75	9/16	5/8	1.63	41
113HY-4-4	1/4x18	-4	1/4	-4	3.06	78	9/16	5/8	1.72	44
113HY-4-6	1/4x18	-4	3/8	-6	3.17	81	11/16	11/16	1.81	46
113HY-6-4	3/8x18	-6	1/4	-4	3.13	80	5/8	11/16	1.78	45
113HY-6-6	3/8x18	-6	3/8	-6	3.11	79	11/16	11/16	1.75	44
113HY-6-8	3/8x18	-6	1/2	-8	3.31	84	7/8	7/8	1.97	50
113HY-8-6	1/2x14	-8	3/8	-6	3.38	86	7/8	7/8	2.03	52
113HY-8-8	1/2x14	-8	1/2	-8	3.50	89	7/8	7/8	2.16	55
113HY-12-12	3/4x14	-12	3/4	-12	3.95	100	1-1/4	1-1/4	2.38	60
113HY-16-16	1x11-1/2	-16	1	-16	4.23	107	1-1/2	1-1/2	2.63	67

**11LHY (HY-SP90) Male NPTF Pipe  
Swivel - 90° Elbow**



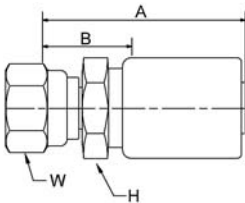
#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number											
11LHY-4-4	1/4x18	-4	1/4	-4	2.31	59	1.69	43	11/16	0.97	25	
11LHY-4-6	1/4x18	-4	3/8	-6	2.33	59	1.69	43	11/16	0.97	25	
11LHY-6-6	3/8x8	-6	3/8	-6	2.33	59	1.63	41	11/16	0.97	25	
11LHY-8-6	1/2x14	-8	3/8	-6	2.73	69	1.88	48	7/8	0.97	25	
11LHY-8-8	1/2x14	-8	1/2	-8	3.00	76	1.93	49	7/8	1.09	28	

**102HY (HY-FF) Female NPTF Pipe  
Rigid - Straight**



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
	Part Number									
102HY-2-4	1/8x27	-2	1/4	-4	2.34	59	5/8	1.00	25	
102HY-4-4	1/4x18	-4	1/4	-4	2.47	63	11/16	1.13	29	
102HY-4-6	1/4x18	-4	3/8	-6	2.48	63	11/16	1.13	29	
102HY-6-4	3/8x18	-6	1/4	-4	2.47	63	7/8	1.13	29	
102HY-6-6	3/8x18	-6	3/8	-6	2.48	63	7/8	1.13	29	
102HY-8-6	1/2x14	-8	3/8	-6	2.75	70	1	1.41	36	
102HY-8-8	1/2x14	-8	1/2	-8	2.84	72	1	1.50	38	
102HY-12-12	3/4x14	-12	3/4	-12	2.83	72	1-1/4	1.25	32	
102HY-16-16	1x11-1/2	-16	1	16	3.27	83	1-1/2	1.66	42	

**107HY (HY-RV) Female NPSM Pipe  
Swivel - Straight (60° Cone)**



#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
	Part Number									
107HY-6-6	3/8x18	-6	3/8	-6	2.55	65	3/4	1.19	30	762

Hose  
**A**

Fittings  
HY Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

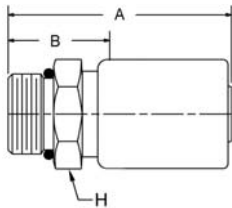
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

### 105HY (HY-RA) Male SAE Straight Thread with O-Ring - Rigid - Straight

Note: O-Ring is not compatible with Phosphate Ester fluids.



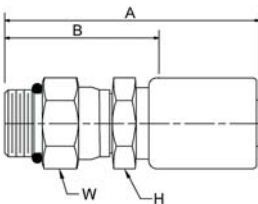
#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
105HY-4-4	7/16x20	-4	1/4	-4	2.33	59	9/16	0.97	25	
105HY-5-4	1/2x20	-5	1/4	-4	2.33	59	5/8	0.97	25	
105HY-6-4	9/16x18	-6	1/4	-4	2.42	61	11/16	1.06	27	
105HY-6-6	9/16x18	-6	3/8	-6	2.38	60	11/16	1.03	26	
105HY-8-6	3/4x16	-8	3/8	-6	2.42	61	7/8	1.06	27	
105HY-8-8	3/4x16	-8	1/2	-8	2.59	66	7/8	1.25	32	
105HY-10-6	7/8x14	-10	3/8	-6	2.55	65	1	1.19	30	
105HY-10-8	7/8x14	-10	1/2	-8	2.66	68	1	1.31	33	
105HY-10-10	7/8x14	-10	5/8	-10	2.80	71	1-1/8	1.41	36	
105HY-12-8	1-1/16x12	-12	1/2	-8	2.81	71	1-1/4	1.47	37	
105HY-12-10	1-1/16x12	-12	5/8	-10	2.83	72	1-1/4	1.44	37	
105HY-12-12	1-1/16x12	-12	3/4	-12	2.92	74	1-1/4	1.34	34	
105HY-16-12	1-5/16x12	-16	3/4	-12	2.92	74	1-1/2	1.34	34	
105HY-16-16	1-5/16x12	-16	1	-16	3.08	78	1-1/2	1.47	37	

### 10GHY (HY-RC) Male SAE Straight Thread with O-Ring - Swivel Straight

Note: The fitting allows minor movement under pressure to relieve stress on hose. It is not to be used for continuous or extensive swiveling.

Note: O-Ring is not compatible with Phosphate Ester fluids.

Note: See Section G for pressure limitations.

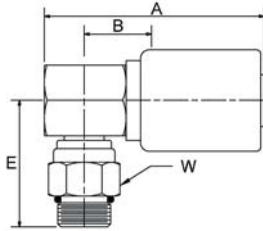


#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
10GHY-4-4	7/16x20	-4	1/4	-4	3.00	76	9/16	5/8	1.66	42
10GHY-5-4	1/2x20	-5	1/4	-4	3.00	76	9/16	5/8	1.66	42
10GHY-6-6	9/16x18	-6	3/8	-6	3.14	80	11/16	11/16	1.78	45
10GHY-8-6	3/4x16	-8	3/8	-6	3.24	82	13/16	7/8	1.88	48
10GHY-8-8	3/4x16	-8	1/2	-8	3.36	85	7/8	7/8	2.00	51
10GHY-10-8	7/8x14	-10	1/2	-8	3.44	87	1	1	2.09	53
10GHY-12-8	1-1/16x12	-12	1/2	-8	3.66	93	1-1/4	1-1/4	2.31	59
10GHY-12-12	1-1/16x12	-12	3/4	-12	3.89	99	1-1/4	1-1/4	2.31	59
10GHY-16-16	1-5/16x12	-16	1	-16	3.95	100	1-3/8	1-1/2	2.34	59

**A** Hose  
**B** Fittings HY Series  
**C** Parkrimp Crimping Equipment  
**D** Hose Assembly Equipment  
**E** Adapters  
**F** Accessories  
**G** Appendices

**10LHY (HY-RC90) Male SAE Straight Thread with O-Ring - Swivel 90° Elbow**

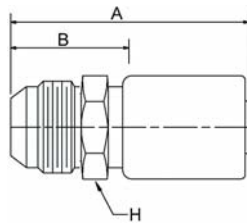
Note: The fitting allows minor movement under pressure to relieve stress on hose. It is not to be used for continuous or extensive swiveling.  
Note: O-Ring is not compatible with Phosphate Ester fluids.  
Note: See Section G for pressure limitations.



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
10LHY-6-6	9/16x18	-6	3/8	-6	2.33	59	1.66	42	11/16	0.97	25
10LHY-8-6	3/4x16	-8	3/8	-6	2.33	59	1.73	44	7/8	0.97	25
10LHY-8-8	3/4x16	-8	1/2	-8	3.00	76	1.80	46	7/8	1.09	28
10LHY-10-8	7/8x14	-10	1/2	-8	3.00	76	1.88	48	1	1.09	28
10LHY-12-12	1-1/16x12	-12	3/4	-12	2.77	70	2.23	57	1-1/4	1.19	30
10LHY-16-16	1-5/16x12	-16	1	-16	3.03	77	2.40	61	1-1/2	1.41	36

**103HY (HY-MJ) Male JIC 37° Rigid - Straight**

#	Thread		Hose		A		H	B	
	inch		inch		inch	mm	inch	inch	mm
103HY-4-4	7/16x20	-4	1/4	-5	2.52	64	5/8	1.19	30
103HY-5-4	1/2x20	-5	1/4	-4	2.52	64	5/8	1.19	30
103HY-6-4	9/16x18	-6	1/4	-4	2.53	64	11/16	1.19	30
103HY-6-6	9/16x18	-6	3/8	-6	2.54	65	11/16	1.19	30
103HY-6-8	9/16x18	-6	1/2	-8	2.72	69	7/8	1.38	35
103HY-8-6	3/4x16	-8	3/8	-6	2.64	67	13/16	1.28	33
103HY-8-8	3/4x16	-8	1/2	-8	2.81	71	7/8	1.47	37
103HY-10-6	7/8x14	-10	3/8	-6	2.81	71	1	1.47	37
103HY-10-8	7/8x14	-10	1/2	-8	2.91	74	1	1.56	40
103HY-10-10	7/8x14	-10	5/8	-10	2.98	76	1-1/8	1.59	40
103HY-10-12	7/8x14	-10	3/4	-12	3.08	78	1-1/4	1.50	38
103HY-12-8	1-1/16x12	-12	1/2	-8	3.02	77	1-1/8	1.66	42
103HY-12-10	1-1/16x12	-12	5/8	-10	3.09	78	1-1/8	1.72	44
103HY-12-12	1-1/16x12	-12	3/4	-12	3.19	81	1-1/4	1.63	41
103HY-14-12	1-3/16x12	-14	3/4	-12	3.19	81	1-1/4	1.63	41
103HY-16-12	1-5/16x12	-16	3/4	-12	3.23	82	1-3/8	1.66	42
103HY-16-16	1-5/16x12	-16	1	-16	3.39	86	1-3/8	1.78	45



Hose  
**A**

Fittings  
HY Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

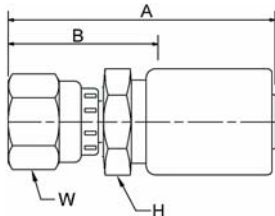
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

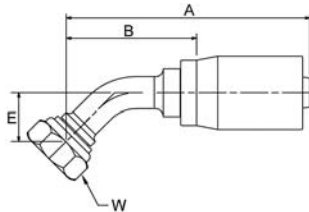
**106HY (HY-FJ) Female JIC 37°  
Swivel - Straight**

Note: "C303" - Stainless Steel Fitting  
Note: Crimp diameters for stainless steel fittings are .005 (.13mm) greater than listed. Must be crimped with Karrykrimp 2, PHastkrimp or Parkrimp 2.



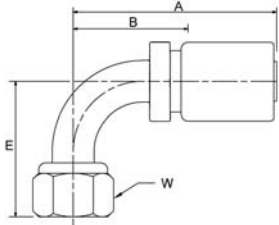
#	Thread		Hose		A		H		W		B	
	inch		inch		inch	mm	inch	inch	inch	inch	inch	mm
106HY-3-4	3/8x24	-3	1/4	-4	2.58	66	9/16	1/2	1.22	31		
106HY-4-4	7/16x20	-4	1/4	-4	2.60	66	9/16	9/16	1.25	32		
106HY-4-4C303	7/16x20	-4	1/4	-4	2.60	66	9/16	9/16	1.25	32		
106HY-4-6	7/16x20	-4	3/8	-6	2.67	68	3/4	9/16	1.31	33		
106HY-5-4	1/2x20	-5	1/4	-4	2.65	67	9/16	5/8	1.31	33		
106HY-5-6	1/2x20	-5	3/8	-6	2.73	69	3/4	5/8	1.38	35		
106HY-6-4	9/16x18	-6	1/4	-4	2.67	68	5/8	11/16	1.31	33		
106HY-6-6	9/16x18	-6	3/8	-6	2.69	68	11/16	11/16	1.34	34		
106HY-6-6C303	9/16x18	-6	3/8	-6	2.69	68	11/16	11/16	1.34	34		
106HY-6-8	9/16x18	-6	1/2	-8	2.86	73	7/8	11/16	1.50	38		
106HY-8-6	3/4x16	-8	3/8	-6	2.72	69	7/8	7/8	1.38	35		
106HY-8-8	3/4x16	-8	1/2	-8	2.90	74	7/8	7/8	1.56	40		
106HY-8-8C303	3/4x16	-8	1/2	-8	2.90	74	7/8	7/8	1.56	40		
106HY-8-10	3/4x16	-8	5/8	-10	2.98	76	1-1/8	7/8	1.59	40		
106HY-8-12	3/4x16	-8	3/4	-10	3.08	78	1-1/4	7/8	1.53	39		
106HY-10-6	7/8x14	-10	3/8	-6	2.81	71	7/8	1	1.47	37		
106HY-10-8	7/8x14	-10	1/2	-8	2.98	76	1	1	1.63	41		
106HY-10-10	7/8x14	-10	5/8	-10	3.06	78	1-1/8	1	1.69	43		
106HY-10-12	7/8x14	-10	3/4	-12	3.16	80	1-1/4	1	1.59	40		
106HY-12-8	1-1/16x12	-12	1/2	-8	3.05	77	1-1/8	1-1/4	1.69	43		
106HY-12-10	1-1/16x12	-12	5/8	-10	3.12	79	1-1/8	1-1/4	1.75	44		
106HY-12-12	1-1/16x12	-12	3/4	-12	3.22	82	1-1/4	1-1/4	1.66	42		
106HY-12-12C303	1-1/16x12	-12	3/4	-12	3.22	82	1-1/4	1-1/4	1.66	42		
106HY-12-16	1-1/16x12	-12	1	-16	3.38	86	1-3/8	1-1/4	1.75	44		
106HY-14-12	1-3/16x12	-14	3/4	-12	3.23	82	1-1/4	1 3/8	1.66	42		
106HY-16-12	1-5/16x12	-16	3/4	-12	3.30	84	1-3/8	1-1/2	1.72	44		
106HY-16-16	1-5/16x12	-16	1	-16	3.45	88	1-3/8	1-1/2	1.84	47		
106HY-16-16C303	1-5/16x12	-16	1	-16	3.45	88	1-3/8	1-1/2	1.84	47		
106HY-20-16	1-5/8x12	-20	1	-16	3.70	94	1-3/4	2	2.09	53		

**137HY (HY-FJ45T) Female JIC 37°  
Swivel - 45° Elbow - Short Drop**



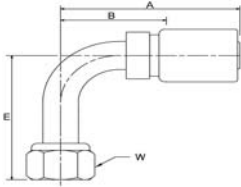
#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
137HY-4-4	7/16x20	-4	1/4	-4	3.24	82	0.33	8	9/16	1.88	48	
137HY-5-4	1/2x20	-5	1/4	-4	3.27	83	0.36	9	5/8	1.91	49	
137HY-6-4	9/16x18	-6	1/4	-4	3.34	85	0.39	10	3/4	2.00	51	
137HY-6-6	9/16x18	-6	3/8	-6	3.33	85	0.39	10	11/16	1.97	50	
137HY-8-6	3/4x16	-8	3/8	-6	3.66	93	0.54	14	7/8	2.31	59	
137HY-8-8	3/4x16	-8	1/2	-8	3.77	96	0.54	14	7/8	2.41	61	
137HY-10-8	7/8x14	-10	1/2	-8	3.41	87	0.63	16	1	2.06	52	
137HY-10-10	7/8x14	-10	5/8	-10	3.69	94	0.63	16	1	2.31	59	
137HY-12-10	1-1/16x12	-12	5/8	-10	3.94	100	0.77	20	1-1/8	2.56	65	
137HY-12-12	1-1/16x12	-12	3/4	-12	3.89	99	0.77	20	1-1/4	2.31	59	
137HY-16-12	1-5/16x12	-16	3/4	-12	4.35	110	0.89	23	1-1/2	2.78	71	
137HY-16-16	1-5/16x12	-16	1	-16	4.31	109	0.89	23	1-1/2	2.69	68	

**139HY (HY-FJ90T) Female JIC 37°  
Swivel - 90° Elbow - Short Drop**



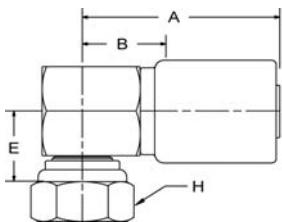
#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
	139HY-4-4	7/16x20	-4	1/4	-4	3.13	80	0.69	18	9/16	1.78
139HY-5-4	1/2x20	-5	1/4	-4	3.16	80	0.77	20	5/8	1.81	46
139HY-6-4	9/16x18	-6	1/4	-4	3.25	83	0.86	22	3/4	1.91	49
139HY-6-6	9/16x18	-6	3/8	-6	3.23	82	0.86	22	11/16	1.88	48
139HY-8-6	3/4x16	-8	3/8	-6	3.48	88	1.12	28	7/8	2.13	54
139HY-8-8	3/4x16	-8	1/2	-8	3.59	91	1.13	29	7/8	2.25	57
139HY-10-8	7/8x14	-10	1/2	-8	3.11	79	1.23	31	1	1.75	44
139HY-10-10	7/8x14	-10	5/8	-10	3.39	86	1.23	31	1	2.00	51
139HY-10-12	7/8x14	-10	3/4	-12	3.25	83	1.23	31	1	1.69	43
139HY-12-8	1-1/16x12	-12	1/2	-8	3.61	92	1.83	46	1-1/4	2.25	57
139HY-12-10	1-1/16x12	-12	5/8	-10	3.89	99	1.83	46	1-1/4	2.50	64
139HY-12-12	1-1/16x12	-12	3/4	-12	3.84	98	1.83	46	1-1/4	2.28	58
139HY-16-12	1-5/16x12	-16	3/4	-12	4.33	110	2.14	54	1-1/2	2.78	71
139HY-16-16	1-5/16x12	-16	1	-16	4.31	109	2.31	59	1-1/2	2.69	68

**141HY (HY-FJ90TL) Female JIC 37°  
Swivel - 90° Elbow - Long Drop**



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
	141HY-4-4	7/16x20	-4	1/4	-4	3.13	80	1.8	46	9/16	1.78
141HY-5-4	1/2x20	-5	1/4	-4	3.16	80	1.77	45	5/8	1.81	46
141HY-6-4	9/16x18	-6	1/4	-4	3.22	82	2.19	56	11/16	1.88	48
141HY-6-6	9/16x18	-6	3/8	-6	3.23	82	2.19	56	11/16	1.88	48
141HY-8-6	3/4x16	-8	3/8	-6	3.48	88	2.44	62	7/8	2.13	54
141HY-8-8	3/4x16	-8	1/2	-8	3.59	91	2.44	62	7/8	2.25	57
141HY-10-8	7/8x14	-10	1/2	-8	3.36	85	2.58	66	1	2.00	51
141HY-12-12	1-1/16x12	-12	3/4	-12	3.59	91	3.73	95	1-1/4	2.03	52
141HY-16-16	1-5/16x12	-16	1	-16	4.56	116	4.33	110	1-1/2	2.94	75

**193HY (HY-FJ90) Female JIC 37°  
Swivel - 90° Elbow - Block Type**



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
	193HY-6-6	9/16x18	-6	3/8	-6	2.33	59	0.78	20	11/16	0.97
193HY-8-8	3/4x16	-8	1/2	-8	3.00	76	0.85	22	7/8	1.09	28
193HY-10-8	7/8x14	-10	1/2	-8	3.00	76	0.89	23	1	1.09	28
193HY-10-12	7/8x14	-10	3/4	-12	3.25	83	0.96	24	1	1.19	30
193HY-12-12	1-1/16x12	-12	3/4	-12	3.33	85	0.99	25	1-1/4	1.19	30

Hose  
**A**

Fittings  
HY Series  
**B**

Parkimp  
Crimping  
Equipment  
**C**

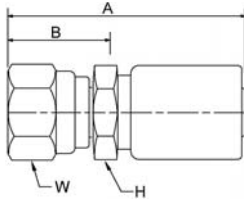
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

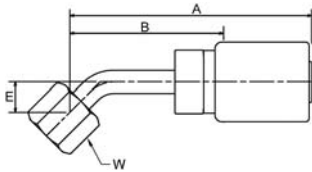
Appendices  
**G**

**108HY (HY-FA) Female SAE 45°  
Swivel - Straight**



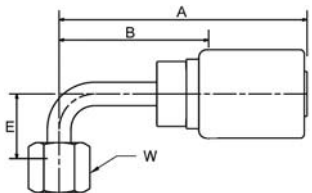
#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
	108HY-4-4	7/16x20	-4	1/4	-4	2.60	66	9/16	9/16	1.26
108HY-5-4	1/2x20	-5	1/4	-4	2.66	68	9/16	5/8	1.31	33
108HY-6-4	5/8x18	-6	1/4	-4	2.73	69	11/16	3/4	1.38	35
108HY-6-6	5/8x18	-6	3/8	-6	2.75	70	11/16	3/4	1.41	36
108HY-8-6	3/4x16	-8	3/8	-6	2.73	69	13/16	7/8	1.38	35
108HY-8-8	3/4x16	-8	1/2	-8	2.90	74	7/8	7/8	1.56	40
108HY-10-8	7/8x14	-10	1/2	-8	2.98	76	1	1	1.63	41

**177HY (HY-FA45T) Female SAE 45°  
Swivel - 45° Elbow**



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
	177HY-5-6	1/2x20	-5	3/8	-6	3.28	83	0.36	9	5/8	1.94
177HY-6-6	5/8x18	-6	3/8	-6	3.33	85	0.39	10	3/4	1.97	50

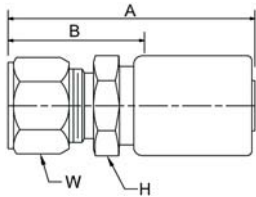
**179HY (HY-FA90T) Female SAE 45°  
Swivel - 90° Elbow**



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
	179HY-4-6	7/16x20	-4	3/8	-6	3.08	78	0.69	18	9/16	1.72
179HY-6-6	5/8x18	-6	3/8	-6	3.23	82	0.86	22	3/4	1.88	48
179HY-12-12	1-1/16x14	-12	3/4	-12	3.98	101	1.83	46	1-1/4	2.39	61

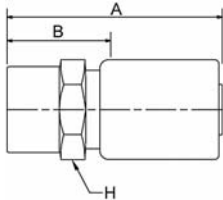


**111HY (HY-MV, HY-MH and HY-MM)  
 Male Ferulok Flareless - Rigid -  
 Straight (24° Cone w/Nut and Ferrule)**



#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
111HY-4-4	7/16x20	-4	1/4	-4	2.42	61	9/16	9/16	1.06	27
111HY-4-6	7/16x20	-4	3/8	-6	2.44	62	3/4	9/16	1.09	28
111HY-5-6	1/2x20	-5	3/8	-6	2.44	62	3/4	5/8	1.09	28
111HY-6-4	9/16x18	-6	1/4	-4	2.44	62	5/8	11/16	1.09	28
111HY-6-6	9/16x18	-6	3/8	-6	2.45	62	11/16	11/16	1.09	28
111HY-8-6	3/4x16	-8	3/8	-6	2.61	66	7/8	7/8	1.25	32
111HY-8-8	3/4x16	-8	1/2	-8	2.72	69	7/8	7/8	1.38	35
111HY-10-8	7/8x14	-10	1/2	-8	2.78	71	1	1	1.44	37
111HY-12-12	1-1/16x12	-12	3/4	-12	3.02	77	1-1/4	1-1/4	1.44	37
111HY-16-16	1-5/16x12	-16	1	-16	3.17	81	1	1-1/2	1.56	40

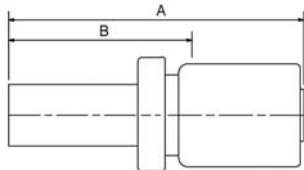
**1GJHY (HY-NV) Female Grease  
 Connection - Special PTF Taper  
 Thread - Rigid - Straight - 1/2x27**



#	Thread		Hose		A		H	B	
	inch		inch		inch	mm	inch	inch	mm
1GJHY-8-4	1/2x27	-8	1/4	-4	2.41	61	3/4	1.06	27

**134HY (HY-RL) Male Standpipe  
 Rigid - Straight (Inch Size Tube O.D.)**

Note: 134HY requires the use of Ferrule nut (BU), Ferrule (TU), and Ferulok Fittings.



#	R		Hose		A		B	
	inch		inch		inch	mm	inch	mm
134HY-4-4	1/4	-4	1/4	-4	3.03	77	1.69	43
134HY-6-4	3/8	-6	1/4	-4	3.16	80	1.81	46
134HY-6-6	3/8	-6	3/8	-6	3.17	81	1.81	46
134HY-8-6	1/2	-8	3/8	-6	3.33	85	1.97	50
134HY-8-8	1/2	-8	1/2	-8	3.44	87	2.09	53
134HY-10-8	5/8	-10	1/2	-8	3.66	93	2.31	59
134HY-12-10	3/4	-12	5/8	-10	3.80	97	2.41	61
134HY-12-12	3/4	-12	3/4	-12	3.89	99	2.31	59
134HY-16-16	1	-16	1	-16	4.23	107	2.63	67

Hose  
A

Fittings  
HY Series  
B

Parkrimp  
Crimping  
Equipment  
C

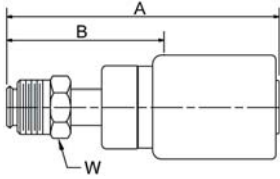
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

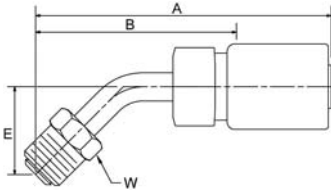
Appendices  
G

**128HY (HY-MF) Male Inverted SAE  
45° Swivel - Straight**



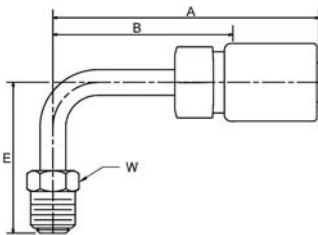
#	Thread		Hose		A		W		B	
	inch		inch		inch	mm	inch	inch	inch	mm
128HY-3-4	3/8x24	-3	1/4	-4	3.09	78	3/8	1.75	44	
128HY-4-4	7/16x24	-4	1/4	-4	3.28	83	7/16	1.94	49	
128HY-5-4	1/2x20	-5	1/4	-4	3.34	85	1/2	2.00	51	
128HY-5-6	1/2x20	-5	3/8	-6	3.17	81	1/2	1.81	46	
128HY-6-6	5/8x18	-6	3/8	-6	3.73	95	5/8	2.38	60	
128HY-8-6	3/4x18	-8	3/8	-8	3.42	87	3/4	2.06	52	
128HY-8-8	3/4x18	-8	1/2	-8	3.66	93	3/4	2.31	59	

**167HY (HY-MF45T) Male Inverted  
SAE 45° - Swivel - 45° Elbow**



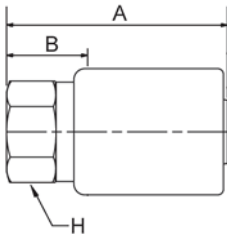
#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
167HY-3-4	3/8x24	-3	1/4	-4	3.03	77	0.72	18	3/8	1.69	43	
167HY-4-4	7/16x24	-4	1/4	-4	3.31	84	0.78	20	7/16	1.97	50	
167HY-4-6	7/16x24	-4	3/8	-6	3.14	80	0.78	20	7/16	1.78	45	
167HY-5-4	1/2x20	-5	1/4	-4	3.55	90	0.88	22	1/2	2.19	56	
167HY-5-6	1/2x20	-5	3/8	-6	3.38	86	0.88	22	1/2	2.03	52	
167HY-6-6	5/8x18	-6	3/8	-6	4.16	106	0.94	24	5/8	2.81	71	
167HY-8-8	3/4x18	-8	1/2	-8	4.22	107	1.06	27	3/4	2.88	73	

**169HY (HY-MF90T) Male Inverted  
SAE 45° - Swivel - 90° Elbow**



#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
169HY-3-4	3/8x24	-3	1/4	-4	3.09	78	1.38	35	3/8	1.75	44	
169HY-4-4	7/16x24	-4	1/4	-4	3.28	83	1.47	37	7/16	1.94	49	
169HY-4-6	7/16x24	-4	3/8	-6	3.11	79	1.47	37	7/16	1.75	44	
169HY-5-4	1/2x20	-5	1/4	-4	3.52	89	1.66	42	1/2	2.16	55	
169HY-5-6	1/2x20	-5	3/8	-6	3.34	85	1.66	42	1/2	2.00	51	
169HY-6-6	5/8x18	-6	3/8	-6	4.03	102	1.69	43	5/8	2.69	68	
169HY-7-6	11/16x18	-7	3/8	-6	4.16	106	1.69	43	11/16	2.81	71	
169HY-8-6	3/4x18	-8	3/8	-6	4.05	103	1.88	48	3/4	2.72	69	
169HY-8-8	3/4x18	-8	1/2	-8	4.09	104	1.88	48	3/4	2.75	70	

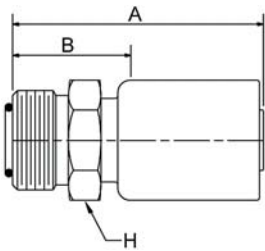
**129HY (HY-NG) Female Inverted SAE**  
**45° - Rigid - Straight**



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	mm	
129HY-4-4	7/16x24	-4	1/4	-4	2.16	55	9/16	0.81	21	
129HY-5-4	1/2x20	-5	1/4	-5	2.25	57	5/8	0.91	23	
129HY-6-6	5/8x18	-6	3/8	-6	2.25	57	7/8	0.91	23	

**1J0HY (HY-OM) Male Seal-Lok®**  
**Rigid - Straight (with O-Ring)**  
**ISO 1215-1 - S**

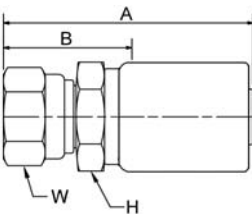
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	mm	
1J0HY-4-4	9/16x18	-4	1/4	-4	2.36	60	5/8	1.00	25	
1J0HY-6-6	11/16x16	-6	3/8	-6	2.49	63	3/4	1.13	29	
1J0HY-8-8	13/16x16	-8	1/2	-8	2.69	68	7/8	1.34	34	
1J0HY-12-8	1-3/16x12	-12	1/2	-8	2.91	74	1-1/4	1.56	40	

**1JCHY (HY-OF) Female Seal-Lok®**  
**Swivel - Straight - Short**  
**ISO 12151-1 - SWSA**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
1JCHY-4-4	9/16x18	-4	1/4	-4	2.61	66	9/16	11/16	0.94	24
1JCHY-6-6	11/16x16	-6	3/8	-6	2.69	68	11/16	13/16	0.94	24
1JCHY-8-8	13/16x16	-8	1/2	-8	2.91	74	7/8	15/16	1.13	29
1JCHY-12-12	1-3/16x12	-12	3/4	-12	3.31	84	1-1/4	1-3/8	1.13	29

Hose  
**A**

Fittings  
HY Series  
**B**

Parkimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

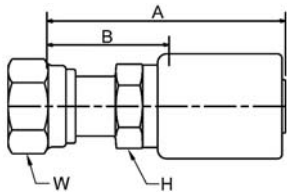
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**1JSHY (HY-OFT) Female Seal-Lok®**  
**Swivel - Straight - Long**  
**ISO 12151-1 - SWSB**

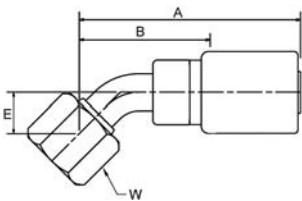
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
1JSHY-4-4	9/16x18	-4	1/4	-4	2.59	66	9/16	11/16	1.25	32
1JSHY-6-4	11/16x16	-6	1/4	-4	2.67	68	5/8	13/16	1.31	33
1JSHY-6-6	11/16x16	-6	3/8	-6	2.75	70	11/16	13/16	1.34	34
1JSHY-6-8	11/16x16	-6	1/2	-8	2.87	73	7/8	15/16	1.53	39
1JSHY-8-6	13/16x16	-8	3/8	-6	2.84	72	7/8	15/16	1.50	38
1JSHY-8-8	13/16x16	-8	1/2	-8	2.95	75	7/8	15/16	1.59	40
1JSHY-10-8	1x14	-10	1/2	-8	3.16	80	15/16	1-1/8	1.81	46
1JSHY-10-10	1x14	-10	5/8	-10	3.17	81	1-1/8	1-1/8	1.78	45
1JSHY-10-12	1x14	-10	3/4	-12	3.27	83	1-1/4	1-1/8	1.69	43
1JSHY-12-10	1-3/16x12	-12	5/8	-10	3.20	81	1-1/8	1-3/8	1.81	46
1JSHY-12-12	1-3/16 x12	-12	3/4	-12	3.30	84	1-1/4	1-3/8	1.72	44
1JSHY-16-12	1-7/16x12	-16	3/4	-12	3.44	87	1-3/8	1-5/8	1.88	48
1JSHY-16-16	1-7/16x12	-16	1	-16	3.59	91	1-3/8	1-5/8	1.97	50
1JSHY-20-16	1-11/16x12	-20	1	-16	3.47	88	1-5/8	1-7/8	2.31	59

**1J7HY (HY-OF45T) Female Seal-Lok®**  
**Swivel - 45° Elbow**  
**ISO 12151-1 - SWE45**

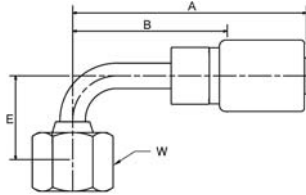
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
1J7HY-4-4	9/16x18	-4	1/4	-4	3.22	82	0.4	10	11/16	1.88	48
1J7HY-6-4	11/16x16	-6	1/4	-4	3.31	84	0.44	11	13/16	1.97	50
1J7HY-6-6	11/16x16	-6	3/8	-6	3.23	82	0.44	11	13/16	1.88	48
1J7HY-6-8	11/16x16	-6	1/2	-8	3.41	87	0.44	11	13/16	2.06	52
1J7HY-8-6	13/16x16	-8	3/8	-6	3.37	86	0.56	14	15/16	2.03	52
1J7HY-8-8	13/16x16	-8	1/2	-8	3.34	85	0.56	14	15/16	2.00	51
1J7HY-10-8	1x14	-10	1/2	-8	3.58	91	0.69	18	1-1/8	2.22	56
1J7HY-10-10	1x14	-10	5/8	-10	3.59	91	0.69	18	1-1/8	2.22	56
1J7HY-12-10	1-3/16x12	-12	5/8	-10	4.11	104	0.83	21	1-3/8	2.72	69
1J7HY-12-12	1-3/16x12	-12	3/4	-12	4.00	102	0.83	21	1-3/8	2.44	62
1J7HY-16-12	1-7/16x12	-16	3/4	-12	4.39	112	0.97	25	1-5/8	2.84	72
1J7HY-16-16	1-7/16x12	-16	1	-16	4.55	116	0.97	25	1-5/8	2.94	75

**1J9HY (HY-OF90T) Female Seal-Lok®  
Swivel - 90° Elbow - Short Drop  
ISO 12151-1 - SWES90**

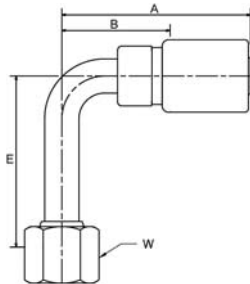
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
1J9HY-4-4	9/16x18	-4	1/4	-4	3.06	78	.83	21	11/16	1.72	44
1J9HY-4-6	9/16x18	-4	3/8	-6	3.08	78	.83	21	11/16	1.72	44
1J9HY-6-4	11/16x16	-6	1/4	-4	3.20	81	.95	24	13/16	1.84	47
1J9HY-6-6	11/16x16	-6	3/8	-6	3.13	80	.95	24	13/16	1.72	44
1J9HY-6-8	11/16x16	-6	1/2	-8	3.30	84	.95	24	13/16	1.94	49
1J9HY-8-6	13/16x16	-8	3/8	-6	3.19	81	1.16	29	15/16	1.84	47
1J9HY-8-8	13/16x16	-8	1/2	-8	3.16	80	1.16	29	15/16	1.81	46
1J9HY-10-8	1x14	-10	1/2	-8	3.47	88	1.33	34	1 1/8	2.13	54
1J9HY-10-10	1x14	-10	5/8	-10	3.42	87	1.33	34	1 1/8	2.03	52
1J9HY-12-10	1 3/16x12	-12	5/8	-10	3.91	99	1.91	49	1 3/8	2.53	64
1J9HY-12-12	1 3/16x12	-12	3/4	-12	3.92	100	1.91	49	1 3/8	2.34	59
1J9HY-16-12	1 7/16x12	-16	3/4	-12	4.27	108	2.25	57	1 5/8	2.69	68
1J9HY-16-16	1 7/16x12	-16	1	-16	4.45	113	2.25	57	1 5/8	2.84	72

**1J1HY (HY-OF90TL) Female  
Seal-Lok® Swivel - 90° Elbow  
Long Drop - ISO 12151-1 - SWEL90**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		W	B	
	inch		inch		inch	mm	inch	mm	inch	inch	mm
1J1HY-4-4	9/16x18	-4	1/4	-4	3.06	78	1.80	46	11/16	1.72	44
1J1HY-6-6	11/16x16	-6	3/8	-6	3.13	80	2.13	54	13/16	1.72	44
1J1HY-8-8	13/16x16	-8	1/2	-8	3.16	80	2.50	64	15/16	1.81	46
1J1HY-10-8	1x14	-10	1/2	-8	3.41	87	2.77	70	1-1/8	1.81	46
1J1HY-10-10	1x14	-10	5/8	-10	3.42	87	2.77	70	1-1/8	2.03	52
1J1HY-12-12	1-3/16x12	-12	3/4	-12	3.95	100	3.83	97	1-3/8	2.38	60
1J1HY-16-16	1-7/16x12	-16	1	-16	4.45	113	4.50	114	1-5/8	2.84	72

Hose  
**A**

Fittings  
HY Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

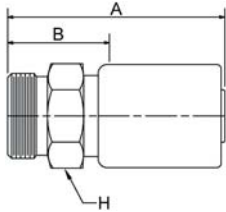
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

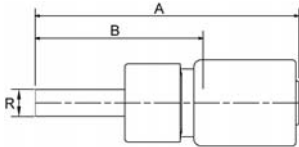
Appendices  
**G**

**1D0HY (HY-MZ) Male Metric L - Rigid  
Straight (24° Cone) - ISO 8434-1**



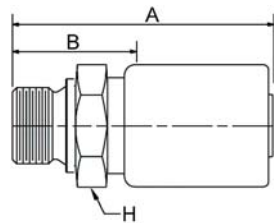
#	Thread			Hose		A		H	B	
	mm			inch		inch	mm	mm	inch	mm
	Part Number	mm		inch						
1D0HY-6-4	6	M12x1.5	-6	1/4	-4	2.36	60	14	1.00	25
1D0HY-8-4	8	M14x1.5	-8	1/4	-4	2.36	60	17	1.00	25
1D0HY-10-4	10	M16x1.5	-10	1/4	-4	2.40	61	19	1.03	26
1D0HY-10-6	10	M16x1.5	-10	3/8	-6	2.42	61	19	1.06	27
1D0HY-12-6	12	M18x1.5	-12	3/8	-6	2.42	61	22	1.06	27
1D0HY-15-6	15	M22x1.5	-15	3/8	-6	2.52	64	24	1.16	29
1D0HY-15-8	15	M22x1.5	-15	1/2	-8	2.63	67	24	1.28	33
1D0HY-18-10	18	M26x1.5	-18	5/8	-10	2.71	69	27	1.31	33
1D0HY-22-12	22	M30x2.0	-22	3/4	-12	2.88	73	32	1.31	33
1D0HY-28-16	28	M36x2.0	-28	1	-16	3.04	77	41	1.41	36

**13DHY (HY-RZT) Male Standpipe  
Metric S - Rigid - Straight  
ISO 8434-1**



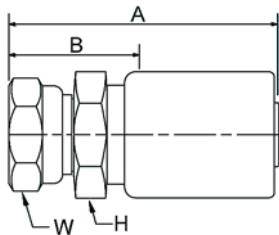
#	R		Hose		A		B	
	mm		inch		inch	mm	inch	mm
	Part Number	mm	inch					
13DHY-16-8	16	-16	1/2	-8	3.53	90	2.16	55
13DHY-20-10	20	-20	5/8	-10	3.62	92	2.22	56
13DHY-25-12	25	-25	3/4	-12	3.79	96	2.22	56

**1D9HY (HY-BP) Male BSP Parallel  
Pipe - Rigid - Straight (60° Cone)  
ISO 228-1**



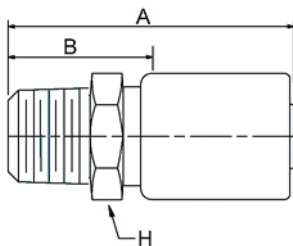
#	Thread			Hose		A		H	B	
	mm			inch		inch	mm	mm	inch	mm
	Part Number	mm		inch						
1D9HY-4-4	1/4x19	-4	1/4	-4	2.40	61	13/16	1.03	26	
1D9HY-6-6	3/8x19	-6	3/8	-6	2.55	65	7/8	1.19	30	
1D9HY-8-8	1/2x14	-8	1/2	-8	2.83	72	1-1/16	1.47	37	
1D9HY-12-12	3/4x14	-12	3/4	-12	3.09	78	1-5/16	1.50	38	
1D9HY-16-16	1x11	-16	1	-16	3.31	84	1-9/16	1.69	43	

**1GUHY (HY-BPF) Female BSP Paral-  
lel Pipe - Swivel - Straight (60° Flare)  
ISO 228-1**



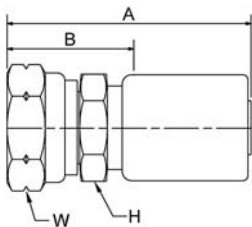
#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	mm	mm	inch	mm
1GUHY-2-4	1/8x28	-2	1/4	-4	2.51	64	14	14	1.16	29
1GUHY-4-4	1/4x19	-4	1/4	-4	2.62	67	14	17	1.28	33
1GUHY-4-6	1/4x19	-4	3/8	-6	2.64	67	19	17	1.28	33
1GUHY-6-4	3/8x19	-6	1/4	-4	2.69	68	19	22	1.34	34
1GUHY-6-6	3/8x19	-6	3/8	-6	2.70	69	19	22	1.34	34
1GUHY-8-8	1/2x14	-8	1/2	-8	3.02	77	22	25	1.66	42
1GUHY-10-10	5/8x14	-10	5/8	-10	3.09	78	27	29	1.72	44
1GUHY-12-12	3/4x14	-12	3/4	-12	3.25	83	32	32	1.69	43
1GUHY-16-16	1x11	-16	1	-16	3.45	88	35	38	1.84	47

**1UTHY (HY-BT) Male BSP Taper Pipe  
Rigid - Straight**



#	Thread		Hose		A		H	B	
	inch		inch		inch	mm	mm	inch	mm
1UTHY-4-4	1/4x19	-4	1/4	-4	2.53	64	9/16	1.19	30
1UTHY-6-4	3/8x19	-6	1/4	-4	2.53	64	11/16	1.19	30
1UTHY-6-6	3/8x19	-6	3/8	-6	2.55	65	11/16	1.19	30
1UTHY-8-6	1/2x14	-8	3/8	-6	2.73	69	7/8	1.38	35
1UTHY-8-8	1/2x14	-8	1/2	-8	2.91	74	7/8	1.56	40
1UTHY-12-12	3/4x14	-12	3/4	-12	3.08	78	1-1/4	1.50	38
1UTHY-16-16	1x11	-16	1	-16	3.42	87	1-3/8	1.82	46

**1XUHY (HY-KMF) Female Metric  
Swivel - Straight (30° Flare)**



#	Thread		Hose		A		H	W	B		
	mm		inch		inch	mm	mm	mm	inch	mm	
1XUHY-24-8	24	M24x1.5	-24	1/2	-8	3.14	80	22	30	1.72	44
1XUHY-24-10	24	M24x1.5	-24	5/8	10	3.22	82	30	30	1.84	47
1XUHY-30-12	30	M30x1.5	-30	3/4	-12	3.31	84	32	38	1.75	44

Hose  
**A**

Fittings  
HY Series  
**B**


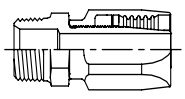

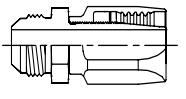
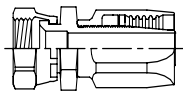
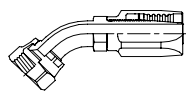
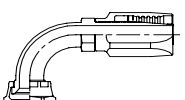
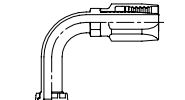

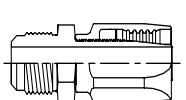
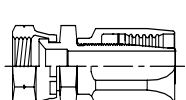
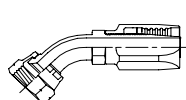
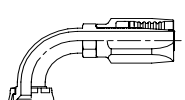
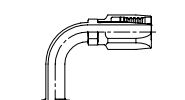

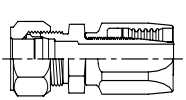

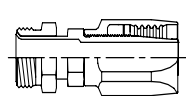
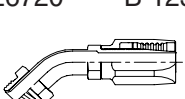
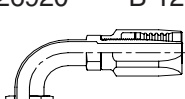
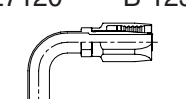

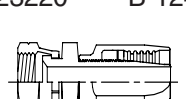

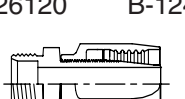

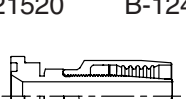
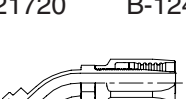
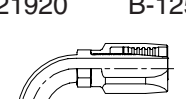

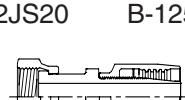
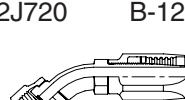
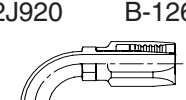
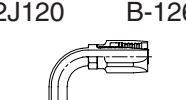

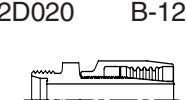
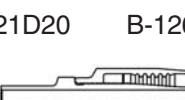
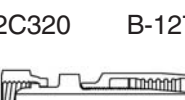
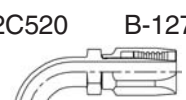

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

 <b>NPTF Pipe</b>	20120 B-118  <i>Male - Rigid - Straight</i>	 <b>JIC 37°</b>	20320 B-118  <i>Male - Rigid - Straight</i>	20620 B-119  <i>Female - Swivel Straight</i>	23720 B-119  <i>Female - Swivel 45° Elbow</i>
23920 B-120  <i>Female - Swivel 90° Elbow</i>	24120 B-120  <i>Female - Swivel 90° Elbow - Long</i>	 <b>SAE 45°</b>	20420 B-120  <i>Male - Rigid - Straight</i>	20820 B-121  <i>Female - Swivel Straight</i>	27720 B-121  <i>Female - Swivel 45° Elbow</i>
27920 B-121  <i>Female - Swivel 90° Elbow</i>	28120 B-122  <i>Female - Swivel 90° Elbow - Long</i>	 <b>Flareless</b>	21120 B-122  <i>Male - Rigid - Straight</i>	 <b>Inverted Flare</b>	22820 B-122  <i>Male - Swivel Straight</i>
26720 B-123  <i>Male - Swivel 45° Elbow</i>	26920 B-123  <i>Male - Swivel 90° Elbow</i>	27120 B-123  <i>Male - Swivel 90° Elbow - Long</i>	 <b>PTT 30°</b>	23220 B-124  <i>Female - Swivel Straight</i>	 <b>Compression</b>
26120 B-124  <i>Male (without Nut or Sleeve)</i>	 <b>Code 61 Flange</b>	21520 B-124  <i>Straight</i>	21720 B-124  <i>45° Elbow</i>	21920 B-125  <i>90° Elbow</i>	 <b>Seal-Lok®</b>
2JS20 B-125  <i>Female - Swivel Straight - Long</i>	2J720 B-125  <i>Female - Swivel 45° Elbow</i>	2J920 B-126  <i>Female - Swivel 90° Elbow</i>	2J120 B-126  <i>Female - Swivel 90° Elbow - Long</i>	 <b>DIN "L" Series</b>	2D020 B-126  <i>Male - Rigid - Straight</i>
21D20 B-126  <i>Male - Rigid - Straight</i>	2C320 B-127  <i>Female - Swivel Straight</i>	2C520 B-127  <i>Female - Swivel 90° Elbow</i>	 <b>Assembly Instructions</b>	20 Series Assembly Instructions B-128	

<b>A</b>	Hose
<b>B</b>	Fittings 20 Series
<b>C</b>	Parkrimp Crimping Equipment
<b>D</b>	Hose Assembly Equipment
<b>E</b>	Adapters
<b>F</b>	Accessories
<b>G</b>	Appendices



**20120 Male NPTF Pipe - Rigid  
Straight**

Note: "B" - Brass Fitting.

Hose  
**A**

Fittings  
20 Series  
**B**

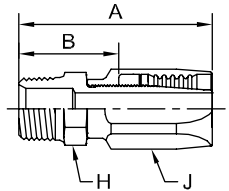
Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

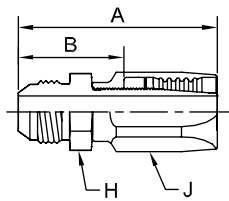
Accessories  
**F**

Appendices  
**G**



#	Thread			Hose		A		H	J	B	
	inch			inch		inch	mm	inch	inch	inch	mm
20120-2-4	1/8x27		-2	3/16	-4	1.72	44	7/16	5/8	0.94	24
20120-2-5	1/8x27		-2	1/4	-5	1.82	46	1/2	11/16	0.99	25
20120-4-4	1/4x18		-4	3/16	-4	1.93	49	9/16	5/8	1.15	29
20120-4-5	1/4x18		-4	1/4	-5	2.01	51	9/16	11/16	1.18	30
20120-4-6	1/4x18		-4	5/16	-6	2.11	54	9/16	13/16	1.19	30
20120-6-6	3/8x18		-6	5/16	-6	2.20	56	3/4	13/16	1.28	33
20120-6-8	3/8x18		-6	13/32	-8	2.48	63	3/4	15/16	1.39	35
20120-8-8	1/2x14		-8	13/32	-8	2.73	69	7/8	15/16	1.64	42
20120-8-10	1/2x14		-8	1/2	-10	2.88	73	7/8	1-1/8	1.66	42
20120-12-10	3/4x14		-12	1/2	-10	2.95	75	1-1/16	1-1/8	1.73	44
20120-12-12	3/4x14		-12	5/8	-12	3.25	83	1-1/16	1-1/4	1.75	44
20120-12-16	3/4x14		-12	7/8	-16	2.81	71	1-3/8	1-7/16	1.62	41
20120-16-16	1x11-1/2		-16	7/8	-16	2.99	76	1-3/8	1-7/16	1.80	46
20120-16-16B	1x11-1/2		-16	7/8	-16	2.99	76	1-3/8	1-7/16	1.80	46
20120-20-20	1-1/4x11-1/2		-20	1-1/8	-20	3.24	82	1-3/4	1-3/4	1.96	50
20120-20-20B	1-1/4x11-1/2		-20	1-1/8	-20	3.24	82	1-3/4	1-3/4	1.96	50
20120-24-24	1-1/2x11-1/2		-24	1-3/8	-24	3.50	89	2	2	2.13	54
20120-24-24B	1-1/2x11-1/2		-24	1-3/8	-24	3.50	89	2	2	2.13	54
20120-32-32	2 x11-1/2		-32	1-13/16	-32	4.05	103	2-1/2	2-1/2	2.31	59
20120-32-32B	2 x11-1/2		-32	1-13/16	-32	4.05	103	2-1/2	2-1/2	2.31	59
20120-40-40	2-1/2x8		-40	2-3/8	-40	5.01	127	3	3-1/8	3.20	81

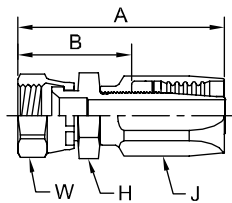
**20320 Male JIC 37° - Rigid  
Straight**



#	Thread			Hose		A		H	J	B	
	inch			inch		inch	mm	inch	inch	inch	mm
20320-4-4	1/4	7/16x20	-4	3/16	-4	1.83	46	1/2	5/8	1.05	27
20320-5-5	5/16	1/2x20	-5	1/4	-5	1.94	49	9/16	11/16	1.11	28
20320-6-6	3/8	9/16x18	-6	5/16	-6	2.11	54	5/8	13/16	1.19	30
20320-8-8	1/2	3/4x16	-8	13/32	-8	2.57	65	13/16	15/16	1.48	38
20320-10-10	5/8	7/8x14	-10	1/2	-10	2.88	73	15/16	1-1/8	1.66	42
20320-12-12	3/4	1-1/16x12	-12	5/8	-12	3.35	85	1-1/8	1-1/4	1.85	47
20320-16-16	1	1-5/16x12	-16	7/8	-16	2.95	75	1-3/8	1-7/16	1.76	45

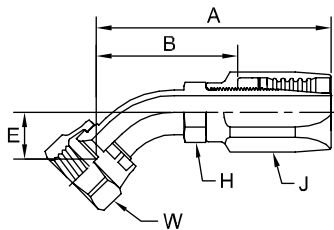
**20620 Female JIC 37° - Swivel  
Straight**

Note: "C" - Stainless Steel Fitting.



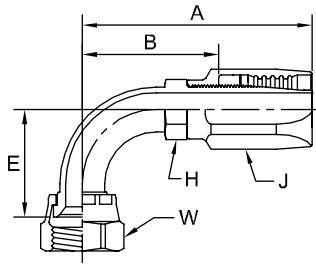
#	Thread			Hose		A		H		J		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
20620-4-4	1/4	7/16x20	-4	3/16	-4	1.94	49	9/16	5/8	9/16	1.16	29			
20620-4-4C	1/4	7/16x20	-4	3/16	-4	1.94	49	9/16	5/8	9/16	1.16	29			
20620-4-5	1/4	7/16x20	-4	1/4	-5	2.04	52	9/16	11/16	9/16	1.21	31			
20620-5-5	5/16	1/2x20	-5	1/4	-5	2.12	54	5/8	11/16	5/8	1.29	33			
20620-6-5	3/8	9/16x18	-6	1/4	-5	2.19	56	11/16	11/16	11/16	1.36	35			
20620-6-6	3/8	9/16x18	-6	5/16	-6	2.32	59	11/16	13/16	11/16	1.40	36			
20620-6-6C	3/8	9/16x18	-6	5/16	-6	2.32	59	11/16	13/16	11/16	1.40	36			
20620-8-6	1/2	3/4x16	-8	5/16	-6	2.44	62	7/8	13/16	7/8	1.52	39			
20620-8-8	1/2	3/4x16	-8	13/32	-8	2.79	71	7/8	15/16	7/8	1.70	43			
20620-8-8C	1/2	3/4x16	-8	13/32	-8	2.79	71	7/8	15/16	7/8	1.70	43			
20620-8-10	1/2	3/4x16	-8	1/2	-10	2.99	76	7/8	1-1/8	7/8	1.77	45			
20620-10-8	5/8	7/8x14	-10	13/32	-8	2.94	75	7/8	15/16	1	1.85	47			
20620-10-10	5/8	7/8x14	-10	1/2	-10	3.10	79	1	1-1/8	1	1.88	48			
20620-10-10C	5/8	7/8x14	-10	1/2	-10	3.10	79	1	1-1/8	1	1.88	48			
20620-10-12	5/8	7/8x14	-10	5/8	-12	3.40	86	1	1-1/4	1	1.90	48			
20620-12-12	3/4	1-1/16x12	-12	5/8	-12	3.49	89	1-1/4	1-1/4	1-1/4	1.99	51			
20620-12-12C	3/4	1-1/16x12	-12	5/8	-12	3.49	89	1-1/4	1-1/4	1-1/4	1.99	51			
20620-16-16	1	1-5/16x12	-16	7/8	-16	3.20	81	1-1/2	1-7/16	1-1/2	2.01	51			
20620-16-16C	1	1-5/16x12	-16	7/8	-16	3.20	81	1-1/2	1-7/16	1-1/2	2.01	51			
20620-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.56	90	2	1-3/4	2	2.28	58			
20620-24-24	1-1/2	1-7/8x12	-24	1-3/8	-24	3.95	100	2-1/4	2	2-1/4	2.58	66			
20620-32-32	2	2-1/2x12	-32	1-13/16	-32	4.71	120	2-7/8	2-1/2	2-7/8	2.97	75			

**23720 Female JIC 37° - Swivel  
45° Elbow - Short Drop**



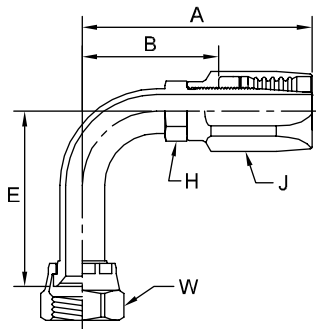
#	Thread			Hose		A		E		H		J		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
23720-4-4	1/4	7/16x20	-4	3/16	-4	2.08	53	0.33	8	3/8	5/8	9/16	1.30	33			
23720-5-5	5/16	1/2x20	-5	1/4	-5	2.30	58	0.36	9	7/16	11/16	5/8	1.47	37			
23720-6-6	3/8	9/16x18	-6	5/16	-6	2.45	62	0.39	10	1/2	13/16	11/16	1.53	39			
23720-8-6	1/2	3/4x16	-8	5/16	-6	2.77	70	0.55	14	5/8	13/16	7/8	1.85	47			
23720-8-8	1/2	3/4x16	-8	13/32	-8	3.09	79	0.55	14	5/8	15/16	7/8	2.00	51			
23720-10-10	5/8	7/8x14	-10	1/2	-10	3.36	85	0.65	17	3/4	1-1/8	1	2.14	54			
23720-12-12	3/4	1-1/16x12	-12	5/8	-12	3.94	100	0.79	20	7/8	1-1/4	1-1/4	2.44	62			
23720-16-16	1	1-5/16x12	-16	7/8	-16	3.73	95	0.90	23	1-1/8	1-7/16	1-1/2	2.54	65			
23720-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	4.17	106	1.19	30	1-1/2	1-3/4	2	2.89	73			

**23920 Female JIC 37° - Swivel  
90° Elbow - Short Drop**



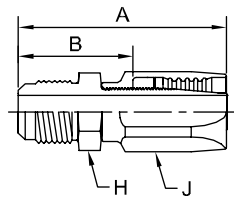
#	Thread			Hose		A		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
23920-4-4	1/4	7/16x20	-4	3/16	-4	1.91	49	0.83	21	3/8	5/8	9/16	1.13	29
23920-5-5	5/16	1/2x20	-5	1/4	-5	2.30	58	0.77	20	7/16	11/16	5/8	1.47	37
23920-6-6	3/8	9/16x18	-6	5/16	-6	2.35	60	0.90	23	1/2	13/16	11/16	1.43	36
23920-8-8	1/2	3/4x16	-8	13/32	-8	2.88	73	1.09	28	5/8	15/16	7/8	1.79	45
23920-8-10	1/2	3/4x16	-8	1/2	-10	3.00	76	1.09	28	3/4	1-1/8	7/8	1.78	45
23920-10-10	5/8	7/8x14	-10	1/2	-10	3.20	81	1.24	31	3/4	1-1/8	1	1.98	50
23920-10-12	5/8	7/8x14	-10	5/8	-12	3.49	89	1.24	31	7/8	1-1/4	1	1.99	51
23920-12-12	3/4	1-1/16x12	-12	5/8	-12	3.86	98	1.82	46	7/8	1-1/4	1-1/4	2.36	60
23920-16-16	1	1-5/16x12	-16	7/8	-16	3.69	94	2.14	54	1-1/8	1-7/16	1-1/2	2.50	64
23920-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	4.01	102	2.59	66	1-1/2	1-3/4	2	2.73	69
23920-24-24	1-1/2	1-7/8x12	-24	1-3/8	-24	4.43	113	2.82	72	1-3/4	2	2-1/4	3.06	78

**24120 Female JIC 37° - Swivel  
90° Elbow - Long Drop**



#	Thread			Hose		A		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
24120-4-4	1/4	7/16x20	-4	3/16	-4	2.08	53	1.80	46	3/8	5/8	9/16	1.30	33
24120-5-5	5/16	1/2x20	-5	1/4	-5	2.04	52	1.80	46	7/16	11/16	5/8	1.21	31
24120-6-6	3/8	9/16x18	-6	5/16	-6	2.34	59	2.18	55	1/2	13/16	11/16	1.42	36
24120-8-8	1/2	3/4x16	-8	13/32	-8	2.95	75	2.43	62	5/8	15/16	7/8	1.86	47
24120-10-10	5/8	7/8x14	-10	1/2	-10	3.26	83	2.58	66	3/4	1-1/8	1	2.04	52
24120-12-12	3/4	1-1/16x12	-12	5/8	-12	3.78	96	3.74	95	7/8	1-1/4	1-1/4	2.28	58
24120-16-16	1	1-5/16x12	-16	7/8	-16	3.54	90	4.33	110	1-1/8	1-7/16	1-1/2	2.35	60

**20420 Male SAE 45° - Rigid  
Straight**



#	Thread			Hose		A		H	J	B	
	inch			inch		inch	mm	inch	inch	inch	mm
20420-4-4	1/4	7/16x20	-4	3/16	-4	1.80	46	1/2	5/8	1.02	26
20420-5-5	5/16	1/2x20	-5	1/4	-5	1.94	49	9/16	11/16	1.11	28
20420-6-6	3/8	5/8x18	-6	5/16	-6	2.17	55	11/16	13/16	1.25	32
20420-8-8	1/2	3/4x16	-8	13/32	-8	2.67	68	13/16	15/16	1.58	40
20420-10-10	5/8	7/8x14	-10	1/2	-10	3.00	76	15/16	1-1/8	1.78	45
20420-12-12	3/4	1-1/16x14	-12	5/8	-12	3.50	89	1-1/8	1-1/4	2.00	51

Hose  
**A**

Fittings  
20 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

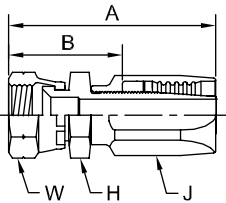
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**20820 Female SAE 45° - Swivel  
Straight**

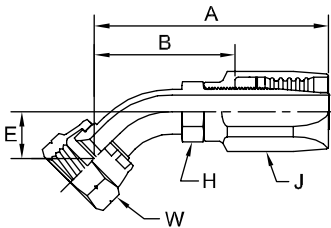
Note: Notch on nut indicates SAE (45°) flare.



# Part Number	Thread			Hose		A		H		J		W		B	
	inch			inch		inch	mm	inch	inch	inch	inch	inch	mm	inch	mm
20820-4-4	1/4	7/16x20	-4	3/16	-4	1.94	49	9/16	5/8	9/16	1.16	29			
20820-4-5	1/4	7/16x20	-4	1/4	-5	2.04	52	9/16	11/16	9/16	1.21	31			
20820-5-5	5/16	1/2x20	-5	1/4	-5	2.12	54	5/8	11/16	5/8	1.29	33			
20820-6-6	3/8	5/8x18	-6	5/16	-6	2.36	60	3/4	13/16	3/4	1.44	37			
20820-8-8	1/2	3/4x16	-8	3/8	-8	2.79	71	7/8	15/16	7/8	1.70	43			
20820-8-10	1/2	3/4x16	-8	1/2	-10	2.99	76	7/8	1-1/8	7/8	1.77	45			
20820-10-10	5/8	7/8x14	-10	1/2	-10	3.10	79	1	1-1/8	1	1.88	48			
20820-12-12	3/4	1-1/16x14	-12	5/8	-12	3.49	89	1-1/4	1-1/4	1-1/4	1.99	51			

**27720 Female SAE 45° - Swivel  
45° Elbow**

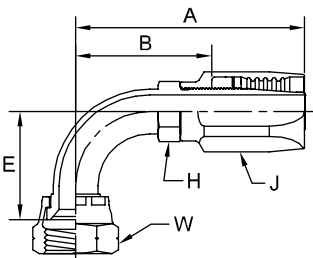
Note: Notch on nut indicates SAE (45°) flare.



# Part Number	Thread			Hose		A		E		H		J		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	inch	mm	inch	mm
27720-4-4	1/4	7/16x20	-4	3/16	-4	2.08	53	0.33	8	3/8	5/8	9/16	1.30	33			
27720-5-5	5/16	1/2x20	-5	1/4	-5	2.30	58	0.36	9	7/16	11/16	5/8	1.47	37			
27720-6-6	3/8	5/8x18	-6	5/16	-6	2.45	62	0.39	10	1/2	13/16	3/4	1.53	39			
27720-8-6	1/2	3/4x16	-8	5/16	-6	2.77	71	0.55	14	5/8	13/16	7/8	1.86	47			
27720-8-8	1/2	3/4x16	-8	13/32	-8	3.09	78	0.55	14	5/8	15/16	7/8	2.00	51			
27720-10-10	5/8	7/8x14	-10	1/2	-10	3.35	85	0.65	17	3/4	1-1/8	1	2.13	54			
27720-12-12	3/4	1-1/16x14	-12	5/8	-12	3.94	100	0.79	20	7/8	1-1/4	1-1/4	2.44	62			

**27920 Female SAE 45° - Swivel  
90° Elbow**

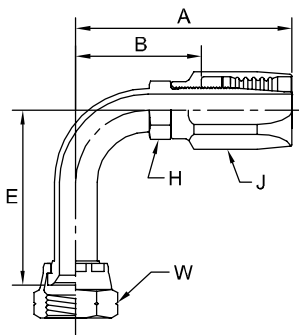
Note: Notch on nut indicates SAE (45°) flare.



# Part Number	Thread			Hose		A		E		H		J		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	inch	mm	inch	mm
27920-4-4	1/4	7/16x20	-4	3/16	-4	1.91	49	0.83	21	3/8	5/8	9/16	1.13	29			
27920-5-5	5/16	1/2x20	-5	1/4	-5	2.30	58	0.77	20	7/16	11/16	5/8	1.47	37			
27920-6-6	3/8	5/8x18	-6	5/16	-6	2.33	59	0.85	22	1/2	13/16	3/4	1.41	36			
27920-8-8	1/2	3/4x16	-8	13/32	-8	2.86	73	1.09	28	5/8	15/16	7/8	1.77	45			
27920-10-10	5/8	7/8x14	-10	1/2	-10	3.20	81	1.24	31	3/4	1-1/8	1	1.98	50			
27920-12-12	3/4	1-1/16x14	-12	5/8	-12	3.87	98	1.82	46	7/8	1-1/4	1-1/4	2.37	60			

**28120 Female SAE 45°  
Swivel - 90° Elbow - Long Drop**

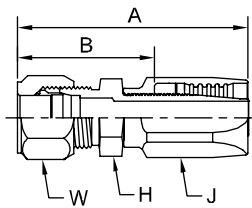
Note: Notch on nut indicates SAE (45°) flare.



#	Thread			Hose		A		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
28120-4-4	1/4	7/16x20	-4	3/16	-4	2.08	53	1.80	46	3/8	5/8	9/16	1.30	33
28120-6-6	3/8	5/8x18	-6	5/16	-6	2.34	59	2.18	55	1/2	13/16	3/4	1.42	36
28120-8-8	1/2	3/4x16	-8	13/32	-8	2.95	75	2.43	62	5/8	15/16	7/8	1.86	47
28120-10-10	5/8	7/8x14	-10	1/2	-10	3.26	83	2.58	66	3/4	1-1/8	1	2.04	52
28120-12-12	3/4	1-1/16x14	-12	5/8	-12	3.76	96	3.74	95	7/8	1-1/4	1-1/4	2.26	57

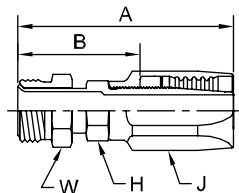
**21120 Male Ferulok Flareless - Rigid  
Straight (24° Cone with Nut and  
Ferrule)**

Note: The Parker Ferrul-Fix Fitting makes possible quick, easy on the job repairs. See "Ferrul-Fix" assembly instructions in Section G.



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
21120-4-4	1/4	7/16x20	-4	3/16	-4	1.80	46	1/2	5/8	9/16	1.02	26
21120-4-6	1/4	7/16x20	-4	5/16	-6	2.03	52	9/16	13/16	9/16	1.11	28
21120-5-5	5/16	1/2x20	-5	1/4	-5	1.90	48	9/16	11/16	5/8	1.07	27
21120-6-6	3/8	9/16x18	-6	5/16	-6	2.05	52	5/8	13/16	11/16	1.13	29
21120-8-8	1/2	3/4x16	-8	13/32	-8	2.52	64	13/16	15/16	7/8	1.43	36
21120-10-10	5/8	7/8x14	-10	1/2	-10	2.77	70	15/16	1-1/8	1	1.55	39

**22820 Male Inverted SAE 45° - Swivel  
Straight**



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
22820-4-4	1/4	7/16x24	-4	3/16	-4	2.45	62	3/8	5/8	7/16	1.67	42
22820-4-5	1/4	7/16x24	-4	1/4	-5	2.58	66	7/16	11/16	7/16	1.75	44
22820-5-5	5/16	1/2x20	-5	1/4	-5	2.70	69	7/16	11/16	1/2	1.87	47
22820-6-6	3/8	5/8x18	-6	5/16	-6	2.95	75	1/2	13/16	5/8	2.03	52
22820-8-8	1/2	3/4x18	-8	13/32	-8	3.36	85	5/8	15/16	3/4	2.27	58
22820-10-10	5/8	7/8x18	-10	1/2	-10	3.64	92	3/4	1-1/8	7/8	2.42	61

Hose  
A

Fittings  
20 Series  
B

Parkrimp  
Crimping  
Equipment  
C

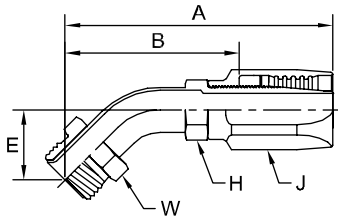
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

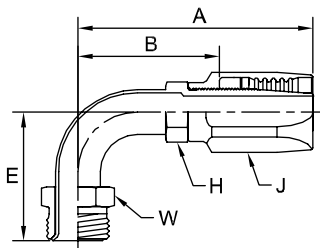
Appendices  
G

26720 Male Inverted SAE 45° - Swivel  
45° Elbow



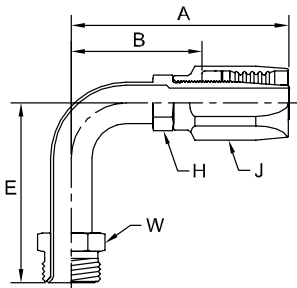
#	Thread			Hose		A		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
26720-4-4	1/4	7/16x24	-4	3/16	-4	2.21	56	0.62	16	3/8	5/8	7/16	1.43	36
26720-5-5	5/16	1/2x20	-5	1/4	-5	2.44	62	0.70	18	7/16	11/16	1/2	1.61	41
26720-6-6	3/8	5/8x18	-6	5/16	-6	3.00	76	0.94	24	1/2	13/16	5/8	2.08	53
26720-8-8	1/2	3/4x18	-8	13/32	-8	3.51	89	1.09	28	5/8	15/16	3/4	2.42	61

26920 Male Inverted SAE 45° - Swivel  
90° Elbow



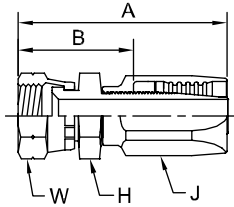
#	Thread			Hose		A		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
26920-4-4	1/4	7/16x24	-4	3/16	-4	2.29	58	1.56	40	3/8	5/8	7/16	1.51	38
26920-5-5	5/16	1/2x20	-5	1/4	-5	2.55	65	1.65	42	7/16	11/16	1/2	1.72	44
26920-5-6	5/16	1/2x20	-5	5/16	-6	2.63	67	1.65	42	1/2	13/16	1/2	1.71	43
26920-6-6	3/8	5/8x18	-6	5/16	-6	2.67	68	1.69	43	1/2	13/16	5/8	1.75	44
26920-8-8	1/2	3/4x18	-8	13/32	-8	3.09	78	1.88	48	5/8	15/16	3/4	2.00	51

27120 Male Inverted SAE 45° - Swivel  
90° Elbow - Long (in-line)



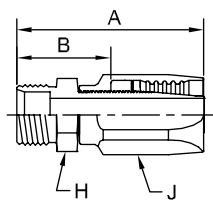
#	Thread			Hose		A		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
27120-6-6	3/8	5/8x18	-6	5/16	-6	3.65	93	2.69	68	1/2	13/16	5/8	2.73	69

### 23220 Female PTT 30° - Swivel Straight



#	Thread		Hose		A		H	J	B			
	inch	inch	inch	inch	inch	mm	inch	inch	inch	mm		
23220-16-16	1	1-5/16x14	-16	7/8	-16	2.98	76	1-1/2	1-7/16	1-1/2	1.79	45

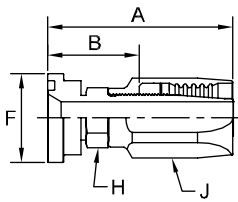
### 26120 Male SAE Compression Seat (without Nut or Sleeve)



#	Thread		Hose		A		H	J	B		
	inch	inch	inch	inch	inch	mm	inch	inch	inch	mm	
26120-10-10	5/8	13/16x18	-10	1/2	-10	2.64	67	7/8	1-1/8	1.42	36

### 21520 SAE Code 61 Flange Head Straight - ISO 12151-3-S-L

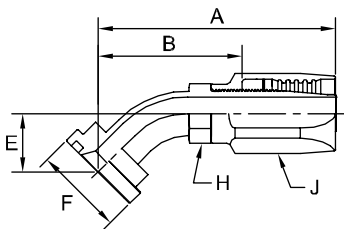
Note: Flange Kits and O-Rings are listed in Section F.



#	Flange		Hose		A		F	H	J	B	
	inch	inch	inch	inch	inch	mm	inch	inch	inch	inch	mm
21520-12-12	3/4	-12	5/8	-12	3.12	79	1-1/2	7/8	1-1/4	1.62	41
21520-16-16	1	-16	7/8	-16	2.76	70	1-3/4	1-1/8	1-7/16	1.57	40
21520-20-20	1-1/4	-20	1-1/8	-20	3.58	91	2	1-1/2	1-3/4	2.30	58
21520-24-24	1-1/2	-24	1-3/8	-24	4.03	102	2-3/8	1-3/4	2	2.65	67
21520-32-32	2	-32	1-13/16	-32	4.90	124	2-7/8	2-1/4	2-1/2	3.16	80
21520-40-40	2-1/2	-40	2-3/8	-40	5.22	133	3-5/16	2-3/4	3-1/8	3.41	87

### 21720 SAE Code 61 Flange Head 45° Elbow - ISO 12151-3-E45S-L (1 Piece: ISO 12151-3-E45M-L)

Note: Flange Kits and O-Rings are listed in Section F.



#	Flange		Hose		A		E	F	H	J	B		
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm	
21720-20-20	1-1/4	-20	1-1/8	-20	4.10	104	1.12	28	2	1-1/2	1-3/4	2.82	72
21720-40-40	2-1/2	-40	2-3/8	-40	5.83	148	1.41	36	3-3/8	2-3/4	3-1/8	4.02	102

Hose  
A

Fittings  
20 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

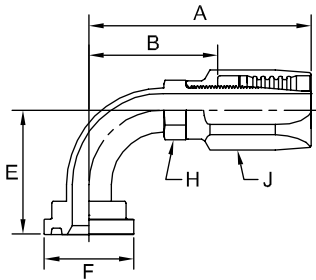
Adapters  
E

Accessories  
F

Appendices  
G

**21920 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3-E90S-L  
(1 Piece: ISO 12151-3-E90M-L)**

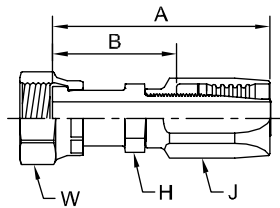
Note: Flange Kits and O-Rings are listed in Section F.



#	Flange		Hose		A		E		F	H	J	B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
21920-8-8	1/2	-8	13/32	-8	2.95	75	1.62	41	1-3/16	5/8	15/16	1.86	47
21920-12-12	3/4	-12	5/8	-12	3.74	95	2.10	53	1-1/2	7/8	1-1/4	2.24	57
21920-16-16	1	-16	7/8	-16	3.54	90	2.37	60	1-3/4	1-1/8	1-7/16	2.35	60
21920-20-20	1-1/4	-20	1-1/8	-20	4.01	102	2.50	64	2	1-1/2	1-3/4	2.73	69
21920-24-24	1-1/2	-24	1-3/8	-24	4.43	113	2.76	70	2-3/8	1-3/4	2	3.06	78
21920-32-32	2	-32	1-13/16	-32	5.44	138	3.19	81	2-13/16	2-1/4	2-1/2	3.70	94
21920-40-40	2-1/2	-40	2-3/8	-40	6.18	157	3.75	95	3-5/16	2-3/4	3-1/8	4.37	111

**2JS20 Female Seal-Lok® - Swivel  
Straight - Long**

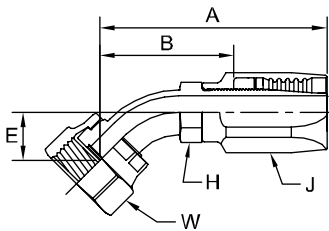
Note: Seal-Lok® torque table is in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H	J	W	B		
	inch		inch		inch	mm	inch	inch	inch	inch	mm	
2JS20-4-4	1/4	9/16x18	-4	3/16	-4	2.07	53	9/16	5/8	11/16	1.29	33
2JS20-6-6	3/8	11/16x16	-6	5/16	-6	2.36	60	1/2	13/16	13/16	1.44	37
2JS20-8-8	1/2	13/16x16	-8	13/32	-8	2.92	74	5/8	15/16	15/16	1.83	46
2JS20-10-10	5/8	1x14	-10	1/2	-10	3.15	80	3/4	1-1/8	1-1/8	1.93	49
2JS20-12-12	3/4	1-3/16x12	-12	5/8	-12	3.66	93	1-1/8	1-1/4	1-3/8	2.16	55
2JS20-16-16	1	1-7/16x12	-16	7/8	-16	3.24	82	1-1/8	1-7/16	1-5/8	2.05	52

**2J720 Female Seal-Lok® - Swivel  
45° Elbow**

Note: Seal-Lok® torque table is in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.

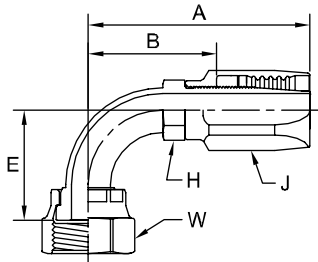


#	Thread		Hose		A		E		H	J	W	B		
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	mm	
2J720-4-4	1/4	9/16x18	-4	3/16	-4	2.24	57	0.41	10	7/16	5/8	11/16	1.46	37
2J720-6-6	3/8	11/16x16	-6	5/16	-6	2.52	64	0.43	11	1/2	13/16	13/16	1.60	41
2J720-8-8	1/2	13/16x16	-8	13/32	-8	3.19	81	0.59	15	5/8	15/16	15/16	2.10	53
2J720-10-10	5/8	1x14	-10	1/2	-10	3.46	88	0.65	17	3/4	1-1/8	1-1/8	2.24	57
2J720-12-12	3/4	1-3/16x12	-12	5/8	-12	3.82	97	0.81	21	7/8	1-1/4	1-3/8	2.32	59
2J720-16-16	1	1-7/16x12	-16	7/8	-16	4.00	102	0.94	24	1-1/8	1-7/16	1-5/8	2.81	71



**2J920 Female Seal-Lok® - Swivel  
90° Elbow - Short Drop**

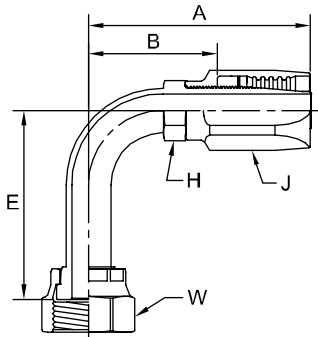
Note: Seal-Lok® torque table is in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		H	J	W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm	mm
2J920-4-4	1/4	9/16x18	-4	3/16	-4	2.22	56	0.82	21	7/16	5/8	11/16	1.44	37	
2J920-6-6	3/8	11/16x16	-6	5/16	-6	2.39	61	0.90	23	1/2	13/16	13/16	1.47	37	
2J920-8-8	1/2	13/16x16	-8	13/32	-8	2.91	74	1.15	29	5/8	15/16	15/16	1.82	46	
2J920-10-10	5/8	1x14	-10	1/2	-10	3.16	80	1.27	32	3/4	1-1/8	1-1/8	1.94	49	
2J920-12-12	3/4	1-3/16x12	-12	5/8	-12	3.74	95	1.85	47	7/8	1-1/4	1-3/8	2.24	57	
2J920-16-16	1	1-7/16x12	-16	7/8	-16	3.95	100	2.21	56	1-1/8	1-7/16	1-5/8	2.76	70	

**2J120 Female Seal-Lok® - Swivel  
90° Elbow - Long Drop**

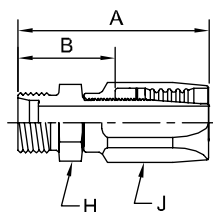
Note: Seal-Lok® torque table is in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread			Hose		A		E		H	J	W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm	mm
2J120-4-4	1/4	9/16x18	-4	3/16	-4	2.01	51	1.8	46	7/16	5/8	11/16	1.23	31	
2J120-6-6	3/8	11/16x16	-6	5/16	-6	2.48	63	2.13	54	1/2	13/16	13/16	1.56	40	
2J120-8-8	1/2	13/16x16	-8	13/32	-8	2.96	75	2.51	64	5/8	15/16	15/16	1.87	47	
2J120-10-10	5/8	1x14	-10	1/2	-10	3.27	83	2.76	83	3/4	1-1/8	1-1/8	2.05	52	
2J120-12-12	3/4	1-3/16x12	-12	5/8	-12	3.76	96	3.78	96	7/8	1-1/4	1-3/8	2.26	57	
2J120-16-16	1	1-7/16x12	-16	7/8	-16	3.54	90	4.50	114	1-1/8	1-7/16	1-5/8	2.35	60	

**2D020 Male Metric L - Rigid  
Straight (24° Cone)**

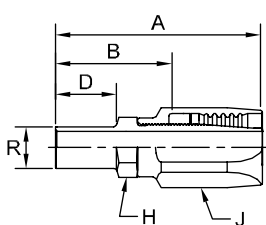
Note: Mates with EO "L" Series Fitting.



#	Thread			Hose		A		H	J	B	
	mm			inch		inch	mm	mm	inch	inch	mm
2D020-8-5	8	M14x1,5	-8	1/4	-5	1.81	44	14	11/16	1.02	25

**21D20 Male Standpipe Metric L -  
Rigid Straight**

Note: Mates with EO "L" Series Fitting.



#	R		Hose		A		D		H	J	B	
	mm		inch		inch	mm	inch	mm	mm	inch	inch	mm
21D20-6-4	6	-6	3/16	-4	2.17	55	0.87	22	16	5/8	1.42	36
21D20-8-5	8	-8	1/4	-5	2.28	58	0.87	22	17	11/16	1.50	38
21D20-10-6	10	-10	5/16	-6	2.48	63	0.91	23	21	13/16	1.57	40
21D20-15-10	15	-15	1/2	-10	3.03	77	0.98	25	29	1-1/8	1.77	45

Hose  
A

Fittings  
20 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

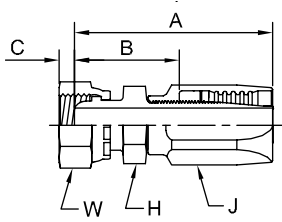
Adapters  
E

Accessories  
F

Appendices  
G

**2C320 Female Metric L - Swivel  
Straight (Ball Nose)**

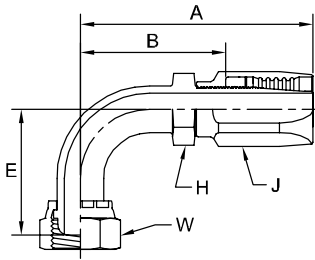
Note: Mates with EO "L" Series Fitting.  
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



# Part Number	Thread		Hose		A		C		H	J	W	B		
	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
2C320-6-4	6	M12x1,5	-6	3/16	-4	2.01	49	0.09	2	14	5/8	14	1.26	31
2C320-8-5	8	M14x1,5	-8	1/4	-5	2.17	53	0.11	3	17	11/16	17	1.54	38
2C320-10-6	10	M16x1,5	-10	5/16	-6	2.44	60	0.06	1	19	13/16	19	1.61	39

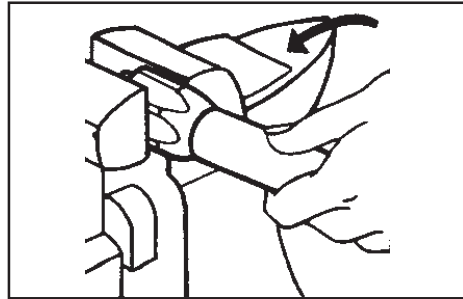
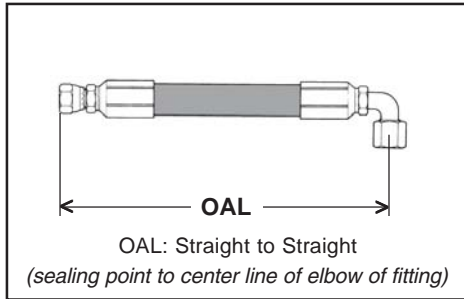
**2C520 Female Metric L - Swivel  
90° Elbow (Ball Nose)**

Note: Mates with EO "L" Series Fitting.

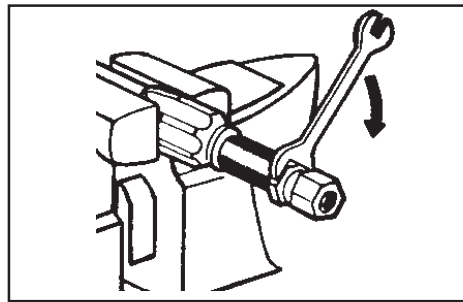
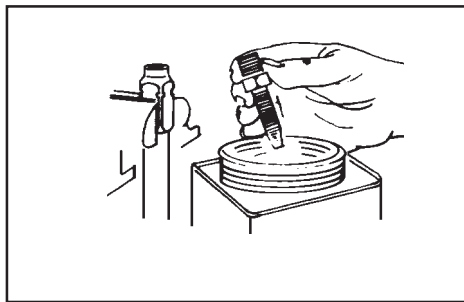


# Part Number	Thread		Hose		A		E		H	J	W	B		
	mm	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
2C520-10-6	10	M16x1,5	-10	5/16	-6	2.80	69	1.22	30	17	13/16	19	1.73	42

## 20 Series Hose Assembly Instructions



1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut is obtained.
2. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out  $\frac{1}{2}$  turn.




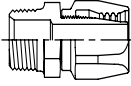


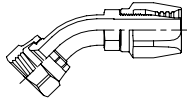
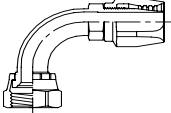
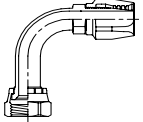


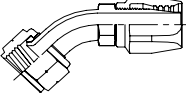

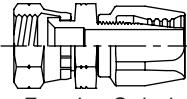

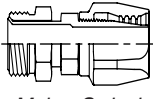
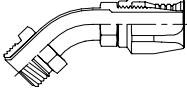
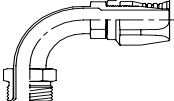
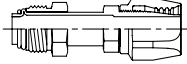
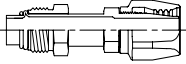
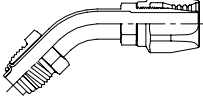
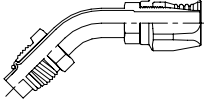


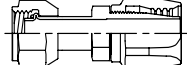
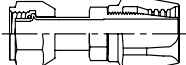
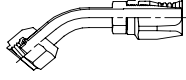
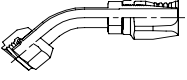
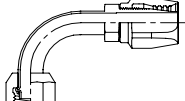
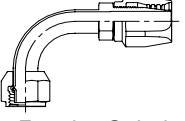

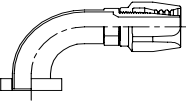


3. Oil inside of hose and nipple threads liberally with Hoze-Oil. Do not oil hose cover.
4. Screw nipple assembly into socket using a wrench on the nipple hex until the nipple hex shoulders against the socket. A  $\frac{1}{32}$ " to  $\frac{1}{16}$ " gap between the nipple hex and socket is allowed for displacement angle adjustment when to elbow fittings are used.

**Inspection.** Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

**Special instructions for stainless steel fittings.** When assembling fittings made with 316 stainless steel, lubricate the threads of both the socket and nipple with Accrolube High Efficiency Lubricant (see page D-8) or equivalent metal assembly lubricant.

**Note:** DISASSEMBLE IN REVERSE ORDER

**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS  
CONTAINED IN THIS CATALOG, PLEASE CALL:  
PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT  
PHONE: 440 / 943-5700  
FAX: 440 / 943-3129  
www.parkerhose.com**

 <b>NPTF Pipe</b>	20121 B-130  Male - Rigid - Straight	 <b>JIC 37°</b>	20621 B-130  Female - Swivel Straight	23721 B-131  Female - Swivel 45° Elbow	23921 B-131  Female - Swivel 90° Elbow
	24121 B-131  Female - Swivel 90° Elbow - Long		 <b>SAE 45°</b>	20821 B-132  Female - Swivel Straight	27721 B-132  Female - Swivel 45° Elbow
 <b>PTT 30°</b>	23221 B-133  Female - Swivel Straight	 <b>Inverted Flare</b>	22821 B-133  Male - Swivel Straight	26721 B-133  Male - Swivel 45° Elbow	26921 B-134  Male - Swivel 90° Elbow
	2S521 B-134  Male - Swivel Straight - Short Pilot		24521 B-134  Male - Swivel Straight - Long Pilot	25R21 B-134  Male - Swivel 45° Elbow - Short Pilot	25P21 B-135  Male - Swivel 45° Elbow - Long Pilot
 <b>Tube-O</b>	25M21 B-135  Male - Swivel 90° Elbow - Long Pilot	25S21 B-135  Female - Swivel Straight - Short Pilot	25921 B-136  Female - Swivel Straight - Long Pilot	25H21 B-136  Female - Swivel 45° Elbow - Short Pilot	25N21 B-136  Female - Swivel 45° Elbow - Long Pilot
	25T21 B-136  Female - Swivel 90° Elbow - Short Pilot	25L21 B-137  Female - Swivel 90° Elbow - Long Pilot	 <b>Flange</b>	22H21 B-137  Two Hole - Rigid 90° Elbow	 <b>Compression</b>
21 Series Assembly Instructions B-138		 <b>Assembly Instructions</b>			

Hose	<b>A</b>
Fittings 21 Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

20121 Male NPTF Pipe - Rigid  
Straight

Hose  
**A**

Fittings  
21 Series  
**B**

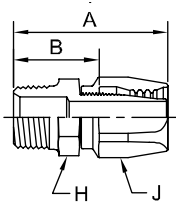
Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

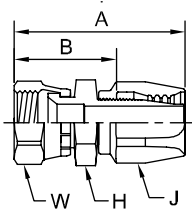
Accessories  
**F**

Appendices  
**G**



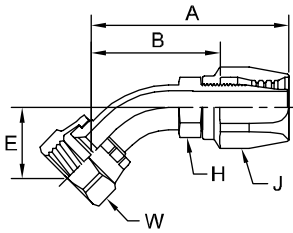
#	Thread		Hose		A		H	J	B	
	inch		inch		inch	mm	inch	inch	inch	mm
20121-2-4	1/8x27	-2	3/16	-4	1.55	39	7/16	9/16	0.88	22
20121-4-4	1/4x18	-4	3/16	-4	1.77	45	9/16	9/16	1.10	28
20121-4-5	1/4x18	-4	1/4	-5	1.79	45	9/16	5/8	1.05	27
20121-4-6	1/4x18	-4	5/16	-6	1.92	49	9/16	3/4	1.14	29
20121-6-6	3/8x18	-6	5/16	-6	1.95	50	11/16	3/4	1.17	30
20121-6-8	3/8x18	-6	13/32	-8	2.10	53	11/16	7/8	1.18	30
20121-8-8	1/2x14	-8	13/32	-8	2.34	59	7/8	7/8	1.42	36
20121-8-10	1/2x14	-8	1/2	-10	2.44	62	7/8	1-1/16	1.44	37
20121-12-12	3/4x14	-12	5/8	-12	2.58	66	1-1/8	1-1/4	1.50	38
20121-12-16	3/4x14	-12	7/8	-16	2.50	64	1-1/4	1-7/16	1.51	38
20121-16-16	1x11-1/2	-16	7/8	-16	2.69	68	1-3/8	1-7/16	1.70	43
20121-16-20	1x11-1/2	-16	1-1/8	-20	2.82	72	1-3/8	1-3/4	1.78	45
20121-20-20	1-1/4x11-1/2	-20	1-1/8	-20	2.91	74	1-11/16	1-3/4	1.87	47
20121-24-24	1-1/2x11-1/2	-24	1-3/8	-24	3.02	77	2	2	1.92	49
20121-32-32		-32		-32						

20621 Female JIC 37° - Swivel  
Straight



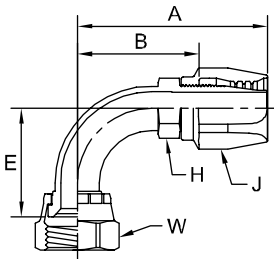
#	Thread		Hose		A		H	J	W	B		
	inch		inch		inch	mm	inch	inch	inch	inch	mm	
20621-4-4	1/4	7/16x20	-4	3/16	-4	1.83	46	9/16	9/16	9/16	1.16	29
20621-5-5	5/16	1/2x20	-5	1/4	-5	1.92	49	5/8	5/8	5/8	1.18	30
20621-6-6	3/8	9/16x18	-6	5/16	-6	2.09	53	11/16	3/4	11/16	1.31	33
20621-8-8	1/2	3/4x16	-8	13/32	-8	2.46	62	7/8	7/8	7/8	1.54	39
20621-10-10	5/8	7/8x14	-10	1/2	-10	2.65	67	1	1-1/16	1	1.65	42
20621-12-12	3/4	1-1/16x12	-12	5/8	-12	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45
20621-16-16	1	1-5/16x12	-16	7/8	-16	2.94	75	1-1/2	1-7/16	1-1/2	1.95	50
20621-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.16	80	2	1-3/4	2	2.12	54

**23721 Female JIC 37° - Swivel  
45° Elbow - Short Drop**



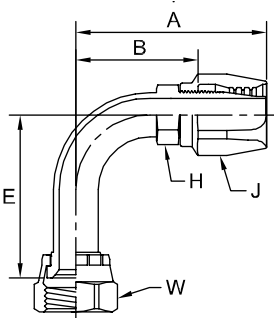
# Part Number	Thread		Hose		A		E		H	J	W	B		
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	mm	
	23721-4-4	1/4	7/16x20	-4	3/16	-4	1.98	50	0.33	8	3/8	9/16	9/16	1.30
23721-4-6	1/4	7/16x20	-4	5/16	-6	2.13	54	0.33	8	1/2	3/4	9/16	1.35	34
23721-5-5	5/16	1/2x20	-5	1/4	-5	2.07	53	0.36	9	7/16	5/8	5/8	1.33	34
23721-6-6	3/8	9/16x18	-6	5/16	-6	2.26	57	0.40	10	1/2	3/4	11/16	1.48	38
23721-8-8	1/2	3/4x16	-8	13/32	-8	2.73	69	0.55	14	5/8	7/8	7/8	1.81	46
23721-10-10	5/8	7/8x14	-10	1/2	-10	2.97	75	0.64	16	3/4	1-1/16	1	1.97	50
23721-12-12	3/4	1-1/16x12	-12	5/8	-12	3.31	84	0.79	20	7/8	1-1/4	1-1/4	2.23	57
23721-16-16	1	1-5/16x12	-16	7/8	-16	3.44	87	0.90	23	1-1/8	1-7/16	1-1/2	2.45	62
23721-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.80	97	1.19	30	1-3/8	1-3/4	2	2.76	70

**23921 Female JIC 37° - Swivel  
90° Elbow - Short Drop**



# Part Number	Thread		Hose		A		E		H	J	W	B		
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	mm	
	23921-4-4	1/4	7/16x20	-4	3/16	-4	1.81	46	0.83	21	3/8	9/16	9/16	1.14
23921-4-6	1/4	7/16x20	-4	5/16	-6	1.95	50	0.83	21	1/2	3/4	9/16	1.17	30
23921-5-5	5/16	1/2x20	-5	1/4	-5	2.07	53	0.77	20	7/16	5/8	5/8	1.33	34
23921-6-6	3/8	9/16x18	-6	5/16	-6	2.15	55	0.85	22	1/2	3/4	11/16	1.37	35
23921-8-8	1/2	3/4x16	-8	13/32	-8	2.49	63	1.09	28	5/8	7/8	7/8	1.57	40
23921-10-10	5/8	7/8x14	-10	1/2	-10	2.69	68	1.23	31	3/4	1-1/16	1	1.69	43
23921-12-12	3/4	1-1/16x12	-12	5/8	-12	3.22	82	1.82	46	7/8	1-1/4	1-1/4	2.14	54
23921-16-16	1	1-5/16x12	-16	7/8	-16	3.40	86	2.14	54	1-1/8	1-7/16	1-1/2	2.41	61
23921-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.64	92	2.59	66	1-3/8	1-3/4	2	2.60	66

**24121 Female JIC 37° - Swivel  
90° Elbow - Long Drop**



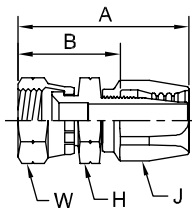
# Part Number	Thread		Hose		A		E		H	J	W	B		
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	mm	
	24121-4-4	1/4	7/16x20	-4	3/16	-4	1.98	50	1.80	46	3/8	9/16	9/16	1.31
24121-5-5	5/16	1/2x20	-5	1/4	-5	1.82	46	1.80	46	7/16	5/8	5/8	1.08	27
24121-6-6	3/8	9/16x18	-6	5/16	-6	2.14	54	2.18	55	1/2	3/4	11/16	1.36	35
24121-8-8	1/2	3/4x16	-8	13/32	-8	2.54	65	2.43	62	5/8	7/8	7/8	1.62	41
24121-10-10	5/8	7/8x14	-10	1/2	-10	2.91	74	2.57	65	3/4	1-1/16	1	1.91	49
24121-12-12	3/4	1-1/16x12	-12	5/8	-12	3.11	79	3.73	95	7/8	1-1/4	1-1/4	2.03	52
24121-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.63	92	5.28	134	1-3/8	1-3/4	2	2.59	66

**20821 Female SAE 45° - Swivel Straight**

Note: "BS" - Brass Nut, Brass Nipple, Steel Shell  
Note: 20821 is used with 45° male flare adapters.

Hose  
**A**

Fittings  
21 Series  
**B**

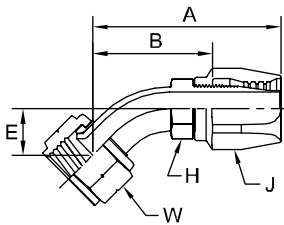


# Part Number	Thread			Hose		A		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
20821-4-4	1/4	7/16x20	-4	3/16	-4	1.83	46	9/16	9/16	9/16	1.16	29
20821-4-4BS	1/4	7/16x20	-4	3/16	-4	1.83	46	9/16	9/16	9/16	1.16	29
20821-5-5	5/16	1/2x20	-5	1/4	-5	1.91	49	5/8	5/8	5/8	1.17	30
20821-6-6	3/8	5/8x18	-6	5/16	-6	2.12	54	3/4	3/4	3/4	1.34	34
20821-6-6BS	3/8	5/8x18	-6	5/16	-6	2.12	54	3/4	3/4	3/4	1.34	34
20821-8-8	1/2	3/4x16	-8	13/32	-8	2.46	62	7/8	7/8	7/8	1.54	39
20821-8-8BS	1/2	3/4x16	-8	13/32	-8	2.46	62	7/8	7/8	7/8	1.54	39
20821-10-10	5/8	7/8x14	-10	1/2	-10	2.65	67	1	1-1/16	1	1.65	42
20821-10-10BS	5/8	7/8x14	-10	1/2	-10	2.65	67	1	1-1/16	1	1.65	42
20821-12-12	3/4	1-1/16x14	-12	5/8	-12	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45
20821-12-12BS	3/4	1-1/16x14	-12	5/8	-12	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45

**27721 Female SAE 45° - Swivel 45° Elbow**

Note: 27721 is used with 45° male flare adapters.  
Note: Notch in nut for SAE 45° flare.

**C**

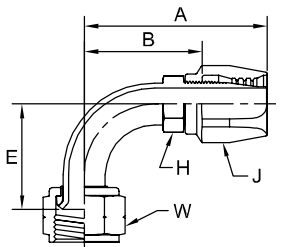


# Part Number	Thread			Hose		A		E		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
27721-6-6	3/8	5/8x18	-6	5/16	-6	2.26	57	0.40	10	1/2	3/4	3/4	1.48	38
27721-12-12	3/4	1-1/16x14	-12	5/8	-12	3.31	84	0.79	20	7/8	1-1/4	1-1/4	2.23	57

**27921 Female SAE 45° - Swivel 90° Elbow**

Note: 27921 is used with 45° male flare adapters.  
Note: Notch in nut for SAE 45° flare.

Adapters  
**E**

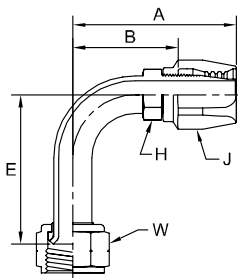


# Part Number	Thread			Hose		A		E		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
27921-6-6	3/8	5/8x18	-6	5/16	-6	2.15	55	0.85	22	1/2	3/4	3/4	1.37	35
27921-12-12	3/4	1-1/16x14	-12	5/8	-12	3.22	82	1.82	46	7/8	1-1/4	1-1/4	2.14	54

**28121 Female SAE 45° Swivel - 90° Elbow - Long Drop**

Note: 28121 is used with 45° male flare adapters.  
Note: Notch in nut for SAE 45° flare.

**F**



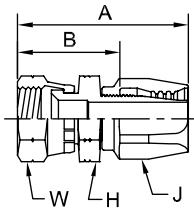
# Part Number	Thread			Hose		A		E		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
28121-6-6	3/8	5/8x18	-6	5/16	-6	2.14	54	2.18	55	1/2	3/4	3/4	1.36	35

Appendices  
**G**



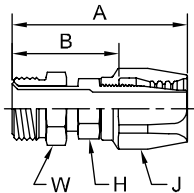
### 23221 Female PTT 30° - Swivel Straight

Note: 23221 is used with 30° flare adapters.



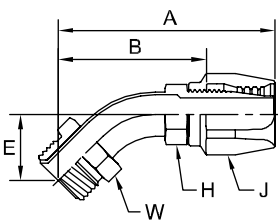
# Part Number	Thread			Hose		A		H	J	W	B	
	inch	inch	inch	inch	inch	inch	mm	inch	inch	inch	inch	mm
23221-16-16	1	1-5/16x14	-16	7/8	-16	2.70	69	1-1/2	1-7/16	1-1/2	1.71	43
23221-20-20	1-1/4	1-5/8x14	-20	1-1/8	-20	3.06	78	2	1-3/4	2	2.02	51

### 22821 Male Inverted SAE 45° - Swivel Straight



# Part Number	Thread			Hose		A		H	J	W	B	
	inch	inch	inch	inch	inch	inch	mm	inch	inch	inch	inch	mm
22821-4-4	1/4	7/16x24	-4	3/16	-4	2.36	60	3/8	9/16	7/16	1.68	43
22821-4-6	1/4	7/16x24	-4	5/16	-6	2.50	64	1/2	3/4	7/16	1.72	44
22821-5-4	5/16	1/2x20	-5	3/16	-4	2.32	59	7/16	9/16	1/2	1.64	42
22821-5-5	5/16	1/2x20	-5	1/4	-5	2.34	59	7/16	5/8	1/2	1.60	41
22821-5-6	5/16	1/2x20	-5	5/16	-6	2.47	63	1/2	3/4	1/2	1.69	43
22821-6-6	3/8	5/8x18	-6	5/16	-6	2.45	62	1/2	3/4	5/8	1.67	42
22821-6-8	3/8	5/8x18	-6	13/32	-8	2.69	68	5/8	7/8	5/8	1.77	45
22821-8-8	1/2	3/4x18	-8	13/32	-8	2.84	72	5/8	7/8	3/4	1.92	49
22821-10-10	5/8	7/8x18	-10	1/2	-10	2.91	74	3/4	1-1/16	7/8	1.91	49
22821-12-12	3/4	1-1/16x16	-12	5/8	-12	2.96	75	7/8	1-1/4	1-1/16	1.88	48

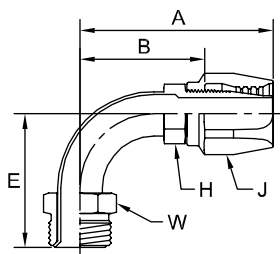
### 26721 Male Inverted SAE 45° - Swivel 45° Elbow



# Part Number	Thread			Hose		A		E	H	J	W	B		
	inch	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm	
26721-4-4	1/4	7/16x24	-4	3/16	-4	2.65	67	0.94	24	3/8	9/16	7/16	1.98	50
26721-4-6	1/4	7/16x24	-4	5/16	-6	2.80	71	0.94	24	1/2	3/4	7/16	2.02	51
26721-5-5	5/16	1/2x20	-5	1/4	-5	2.59	66	0.94	24	7/16	5/8	1/2	1.85	47
26721-5-6	5/16	1/2x20	-5	5/16	-6	2.72	69	0.94	24	1/2	3/4	1/2	1.94	49
26721-6-5	3/8	5/8x18	-6	1/4	-5	2.60	66	0.94	24	1/2	5/8	5/8	1.86	47
26721-6-6	3/8	5/8x18	-6	5/16	-6	2.73	69	0.94	24	1/2	3/4	5/8	1.95	50
26721-8-8	1/2	3/4x18	-8	13/32	-8	3.05	77	0.94	24	5/8	7/8	3/4	2.13	54
26721-10-10	5/8	7/8x18	-10	1/2	-10	3.25	83	1.02	26	3/4	1-1/16	7/8	2.25	57



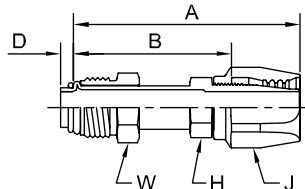
**26921 Male Inverted SAE 45° - Swivel  
90° Elbow**



#	Thread		Hose		A		E		H		J		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
26921-4-4	1/4	7/16x24	-4	3/16	-4	2.26	57	1.65	42	3/8	9/16	7/16	1.59	40		
26921-4-6	1/4	7/16x24	-4	5/16	-6	2.40	61	1.65	42	1/2	3/4	7/16	1.62	41		
26921-5-4	1/4	1/2x20	-4	3/16	-4	2.23	57	1.65	42	7/16	9/16	1/2	1.56	40		
26921-5-5	5/16	1/2x20	-5	1/4	-5	2.25	57	1.65	42	7/16	5/8	1/2	1.51	38		
26921-5-6	5/16	1/2x20	-5	5/16	-6	2.38	60	1.65	42	1/2	3/4	1/2	1.60	41		
26921-6-6	3/8	5/8x18	-6	5/16	-6	2.37	60	1.63	41	1/2	3/4	5/8	1.59	40		
26921-6-8	3/8	5/8x18	-6	13/32	-8	2.59	66	1.69	43	5/8	7/8	5/8	1.67	42		
26921-8-8	1/2	3/4x18	-8	13/32	-8	2.63	67	1.78	45	5/8	7/8	3/4	1.71	43		
26921-10-10	5/8	7/8x18	-10	1/2	-10	2.96	75	2.17	55	3/4	1-1/16	7/8	1.96	50		

**2S521 Male Tube-O - Swivel  
Straight - Short Pilot**

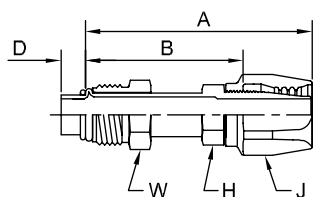
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread		Hose		A		D		H		J		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
2S521-6-6	3/8	5/8x18	-6	5/16	-6	2.64	67	0.18	4,7	1/2	3/4	5/8	1.86	47		
2S521-8-8	1/2	3/4x18	-8	13/32	-8	2.88	73	0.18	4,7	5/8	7/8	3/4	1.96	50		
2S521-10-10	5/8	7/8x18	-10	1/2	-10	3.24	82	0.18	4,7	3/4	1-1/16	7/8	2.24	57		

**24521 Male Tube-O - Swivel  
Straight - Long Pilot**

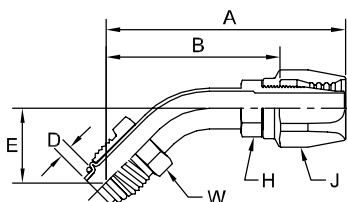
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread		Hose		A		D		H		J		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
24521-6-6	3/8	5/8x18	-6	5/16	-6	3.09	78	0.28	7,1	1/2	3/4	5/8	2.31	59		
24521-10-10	5/8	7/8x18	-10	1/2	-10	3.20	81	0.38	9,8	3/4	1-1/16	7/8	2.20	56		

**25R21 Male Tube-O - Swivel  
45° Elbow - Short Pilot**

Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread		Hose		A		D		E		H		J		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
25R21-6-6	3/8	5/8x18	-6	5/16	-6	3.24	82	0.18	4,7	0.81	21	1/2	3/4	5/8	2.46	62		
25R21-8-8	1/2	3/4x18	-8	13/32	-8	3.56	90	0.18	4,7	0.92	23	5/8	7/8	3/4	2.64	67		

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

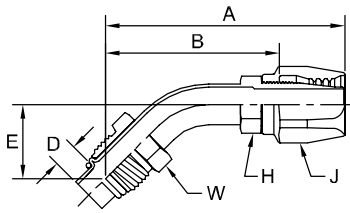
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**25P21 Male Tube-O - Swivel  
45° Elbow - Long Pilot**

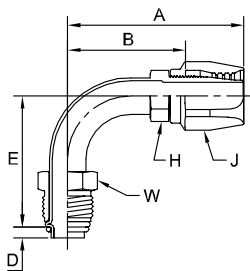
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread			Hose		A		D		E		H		J		W		B		
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
25P21-6-6	3/8	5/8x18	-6	5/16	-6	3.24	82	0.28	7,1	0.81	21	1/2	3/4	5/8	2.46	62				
25P21-8-8	1/2	3/4x18	-8	13/32	-8	3.66	93	0.38	9,8	0.92	23	5/8	7/8	3/4	2.74	70				
25P21-10-10	5/8	7/8x18	-10	1/2	-10	4.03	102	0.38	9,8	0.99	25	3/4	1-1/16	7/8	3.03	77				

**25K21 Male Tube-O - Swivel  
90° Elbow - Short Pilot**

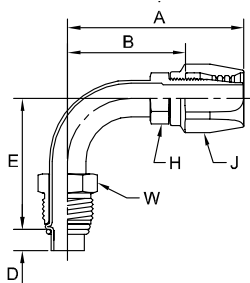
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread			Hose		A		D		E		H		J		W		B		
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
25K21-6-6	3/8	5/8x18	-6	5/16	-6	2.28	58	0.18	4,7	1.76	45	1/2	3/4	5/8	1.50	38				

**25M21 Male Tube-O - Swivel  
90° Elbow - Long Pilot**

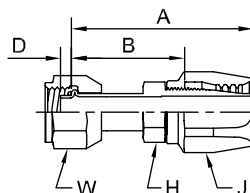
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread			Hose		A		D		E		H		J		W		B		
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
25M21-6-6	3/8	5/8x18	-6	5/16	-6	2.74	70	0.28	7,1	1.80	46	1/2	3/4	5/8	1.96	50				
25M21-8-8	1/2	3/4x18	-8	13/32	-8	2.49	63	0.38	9,8	2.12	54	5/8	7/8	3/4	1.57	40				
25M21-10-10	5/8	7/8x18	-10	1/2	-10	3.27	83	0.38	9,8	1.95	50	3/4	1-1/16	7/8	2.27	58				

**25S21 Female Tube-O - Swivel  
Straight - Short Pilot**

Note: For use with 285 hose in refrigeration or air conditioning systems only.

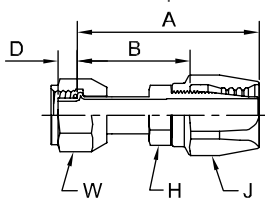


#	Thread			Hose		A		D		H		J		W		B		
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
25S21-6-6	3/8	5/8x18	-6	5/16	-6	2.66	68	0.18	4,7	1/2	3/4	3/4	1.88	48				
25S21-8-8	1/2	3/4x16	-8	13/32	-8	2.86	73	0.18	4,7	5/8	7/8	7/8	1.94	49				
25S21-10-10	5/8	7/8x14	-10	1/2	-10	3.00	76	0.18	4,7	3/4	1-1/16	1-1/16	2.00	51				

**A** Hose  
**B** Fittings 21 Series  
**C** Parkrimp Crimping Equipment  
**D** Hose Assembly Equipment  
**E** Adapters  
**F** Accessories  
**G** Appendices

**25921 Female Tube-O - Swivel  
Straight - Long Pilot**

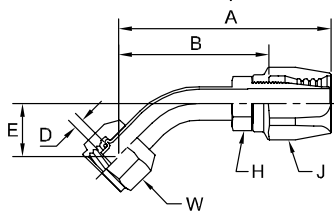
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread			Hose		A		D		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
25921-6-6	3/8	5/8x18	-6	5/16	-6	2.27	58	0.28	7.1	1/2	3/4	3/4	1.49	38
25921-8-8	1/2	3/4x16	-8	13/32	-8	2.50	64	0.38	9.8	5/8	7/8	7/8	1.58	40
25921-12-12	3/4	1-1/16x14	-12	5/8	-12	2.77	70	0.38	9.8	7/8	1-1/4	1-1/4	1.69	43

**25H21 Female Tube-O - Swivel  
45° Elbow - Short Pilot**

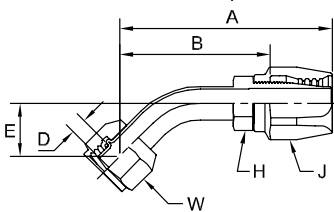
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread			Hose		A		D		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25H21-6-6	3/8	5/8x18	-6	5/16	-6	2.50	64	0.18	4.7	0.54	14	1/2	3/4	3/4	1.72	44
25H21-8-8	1/2	3/4x16	-8	13/32	-8	2.74	70	0.18	4.7	0.60	15	5/8	7/8	7/8	1.82	46

**25N21 Female Tube-O - Swivel  
45° Elbow - Long Pilot**

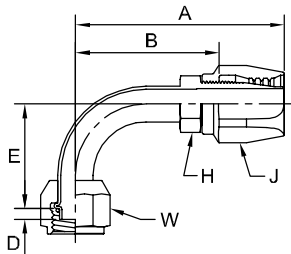
Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread			Hose		A		D		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25N21-6-6	3/8	5/8x18	-6	5/16	-6	3.00	76	0.28	7.1	0.93	24	1/2	3/4	3/4	2.22	56
25N21-8-8	1/2	3/4x16	-8	13/32	-8	3.24	82	0.38	9.8	0.98	25	5/8	7/8	7/8	2.32	59
25N21-10-10	5/8	7/8x14	-10	1/2	-10	3.66	93	0.38	9.8	1.20	30	3/4	1-1/16	1-1/16	2.66	68

**25T21 Female Tube-O - Swivel  
90° Elbow - Short Pilot**

Note: For use with 285 hose in refrigeration or air conditioning systems only.



#	Thread			Hose		A		D		E		H	J	W	B	
	inch			inch		inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25T21-6-6	3/8	5/8x18	-6	5/16	-6	2.35	60	0.18	4.7	1.21	31	1/2	3/4	3/4	1.57	40
25T21-8-8	1/2	3/4x16	-8	13/32	-8	2.83	72	0.18	4.7	1.31	33	5/8	7/8	7/8	1.91	49
25T21-10-10	5/8	7/8x14	-10	1/2	-10	3.33	85	0.18	4.7	1.50	38	3/4	1-1/16	1-1/16	2.33	59

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

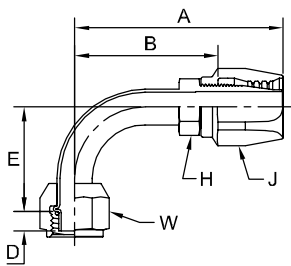
Adapters  
E

Accessories  
F

Appendices  
G

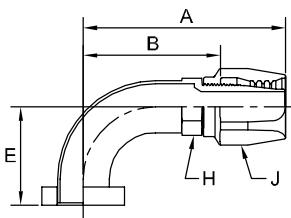
### 25L21 Female Tube-O - Swivel 90° Elbow - Long Pilot

Note: For use with 285 hose in refrigeration or air conditioning systems only.



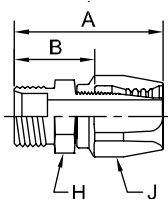
# Part Number	Thread			Hose		A		D		E		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25L21-6-6	3/8	5/8x18	-6	5/16	-6	2.28	58	0.28	7.1	1.43	36	1/2	3/4	3/4	1.50	38
25L21-8-8	1/2	3/4x16	-8	13/32	-8	2.50	64	0.38	9.8	1.46	37	5/8	7/8	7/8	1.58	40
25L21-10-10	5/8	7/8x14	-10	1/2	-10	2.83	72	0.38	9.8	1.75	44	3/4	1-1/16	1-1/16	1.83	46
25L21-12-10	3/4	1-1/16x14	-12	5/8	-12	3.25	83	0.38	9.8	1.99	51	7/8	1-1/16	1-1/4	2.25	57

### 22H21 Two Hole (2.25" x 0.44") Flange Rigid - 90° Elbow



# Part Number	Flange	Hose	A		E		Bolt Hole Size		Distance Between Holes		H	J	B			
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	inch	mm		
22H21-20-20	1-1/8	-20	1-1/8	-20	3.96	101	2.38	60	0.44	11	2.25	57	1-3/8	1-3/4	2.84	72

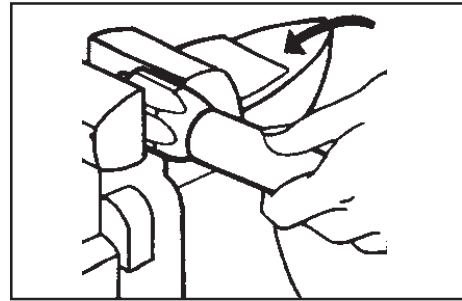
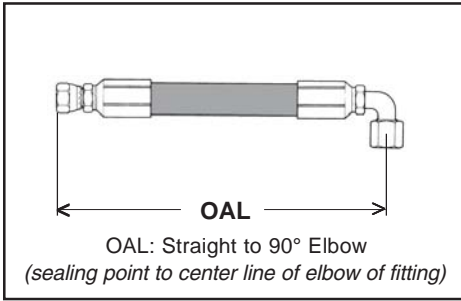
### 26121 Male SAE Compression Seat (without Nut or Sleeve)



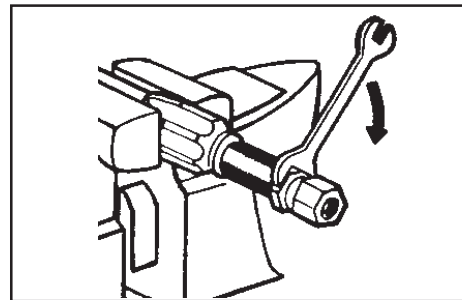
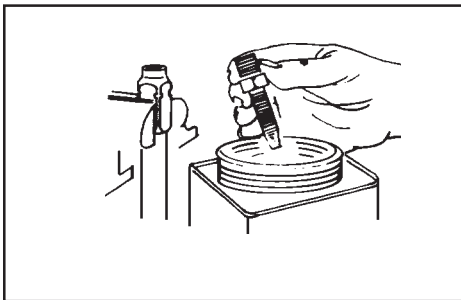
# Part Number	Thread			Hose		A		H	J	B	
	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm
26121-10-10	5/8	13/16x18	-10	1/2	-10	2.27	58	7/8	1-1/16	1.27	32

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

## 21 Series Hose Assembly Instructions



1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut is obtained.
2. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out 1/2 turn.



3. Oil inside of hose and nipple threads liberally with Hoze-Oil. Do not oil hose cover.
4. Screw nipple assembly into socket using a wrench on the nipple hex until the nipple hex shoulders against the socket. A 1/32" to 1/16" gap between the nipple hex and socket is allowed for displacement angle adjustment when to elbow fittings are used.

**Inspection.** Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

**Special instructions for stainless steel fittings.** When assembling fittings made with 316 stainless steel, lubricate the threads of both the socket and nipple with Accrolube High Efficiency Lubricant (see page D-8) or equivalent metal assembly lubricant.

**Note:** **DISASSEMBLE IN REVERSE ORDER**


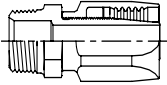

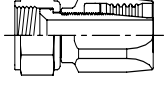

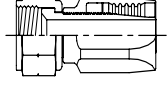

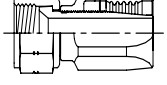

**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS  
CONTAINED IN THIS CATALOG, PLEASE CALL:**

**PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT**

**PHONE: 440 / 943-5700**

**FAX: 440 / 943-3129**

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 <p><b>NPTF Pipe</b></p>	<p>20122 B-140</p>  <p>Male - Rigid - Straight</p>	 <p><b>JIC 37°</b></p>	<p>20622 B-140</p>  <p>Female - Swivel Straight</p>	 <p><b>SAE 45°</b></p>	<p>20822 B-141</p>  <p>Female - Swivel Straight</p>
 <p><b>PTT 30°</b></p>	<p>23222 B-141</p>  <p>Female - Swivel Straight</p>	 <p><b>Assembly Instructions</b></p>	<p>22 Series Assembly Instructions B-142</p>		

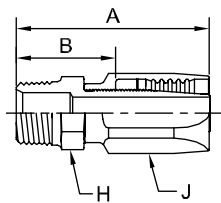
Hose	<b>A</b>
Fittings 22 Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

## Mandrel Assembly Fittings

Fittings -12 and smaller require use of mandrels for assembly to hose. Sizes -16 through -32 require use of assembly tools. Mandrels and assembly tools are listed in Hose Assembly Equipment; Section D.

### 20122 Male NPTF Pipe - Rigid Straight

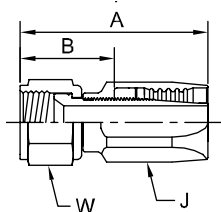
Note: Use 20 Series fittings for -16 and larger.  
Note: "B" - Brass Fitting



#	Thread		Hose		A		H	J	B	
	inch		inch		inch	mm	inch	inch	inch	mm
20122-2-4	1/8x27	-2	3/16	-4	1.72	44	7/16	5/8	0.94	24
20122-2-5	1/8x27	-2	1/4	-5	1.82	46	1/2	11/16	0.99	25
20122-4-4	1/4x18	-4	3/16	-4	1.92	49	9/16	5/8	1.14	29
20122-4-4B	1/4x18	-4	3/16	-4	1.92	49	9/16	5/8	1.92	29
20122-4-5	1/4x18	-4	1/4	-5	2.01	51	9/16	11/16	1.18	30
20122-4-5B	1/4x18	-4	1/4	-5	2.01	51	9/16	11/16	1.18	30
20122-4-6	1/4x18	-4	5/16	-6	2.11	54	9/16	13/16	1.19	30
20122-4-6B	1/4x18	-4	5/16	-6	2.11	54	9/16	13/16	1.19	30
20122-6-8	3/8x18	-6	13/32	-8	2.49	63	3/4	15/16	1.40	36
20122-6-8B	3/8x18	-6	13/32	-8	2.49	63	3/4	15/16	1.40	36
20122-8-8	1/2x14	-8	13/32	-8	2.74	70	7/8	15/16	1.65	42
20122-8-10	1/2x14	-8	1/2	-10	2.88	73	7/8	1-1/8	1.66	42
20122-12-12	3/4x14	-12	5/8	-12	3.25	83	1-1/16	1-1/4	1.75	44
20122-12-12B	3/4x14	-12	5/8	-12	3.25	83	1-1/16	1-1/4	1.75	44

### 20622 Female JIC 37° - Swivel Straight

Note: "B" - Brass Fitting  
~ These 20622 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The -6 and -12 SAE (45°) swivel fittings are shown under part number 20822.



#	Thread		Hose		A		J	W	B		
	inch		inch		inch	mm	inch	inch	inch	mm	
20622-4-4~	1/4	7/16x20	-4	3/16	-4	1.74	44	5/8	9/16	0.96	24
20622-4-4B~	1/4	7/16x20	-4	3/16	-4	1.74	44	5/8	9/16	0.96	24
20622-5-5~	5/16	1/2x20	-5	1/4	-5	1.91	49	11/16	5/8	1.08	27
20622-5-5B~	5/16	1/2x20	-5	1/4	-5	1.91	49	11/16	5/8	1.08	27
20622-6-6	3/8	9/16x18	-6	5/16	-6	2.05	52	13/16	11/16	1.13	29
20622-6-6B	3/8	9/16x18	-6	5/16	-6	2.05	52	13/16	11/16	1.13	29
20622-8-8~	1/2	3/4x16	-8	13/32	-8	2.55	65	15/16	7/8	1.46	37
20622-8-8B~	1/2	3/4x16	-8	13/32	-8	2.55	65	15/16	7/8	1.46	37
20622-10-10~	5/8	7/8x14	-10	1/2	-10	2.80	71	1-1/8	1	1.58	40
20622-10-10B	5/8	7/8x14	-10	1/2	-10	2.80	71	1-1/8	1	1.58	40
20622-12-12	3/4	1-1/16x12	-12	5/8	-12	3.15	80	1-1/4	1-1/8	1.65	42
20622-12-12B	3/4	1-1/16x12	-12	5/8	-12	3.15	80	1-1/4	1-1/8	1.65	42
20622-16-16	1	1-5/16x12	-16	7/8	-16	2.84	72	1-7/16	1-1/2	1.65	42
20622-16-16B	1	1-5/16x12	-16	7/8	-16	2.84	72	1-7/16	1-1/2	1.65	42
20622-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	3.00	76	1-3/4	2	1.72	44
20622-20-20B	1-1/4	1-5/8x12	-20	1-1/8	-20	3.00	76	1-3/4	2	1.72	44
20622-24-24	1-1/2	1-7/8x12	-24	1-3/8	-24	3.30	84	2	2-1/4	1.93	49
20622-32-32	2	2-1/2x12	-32	1-13/16	-32	4.05	103	2-1/2	2-7/8	2.31	59
20622-32-32B	2	2-1/2x12	-32	1-13/16	-32	4.05	103	2-1/2	2-7/8	2.31	59
20622-40-40	2-1/2	3x12	-40	2-3/8	-40	4.17	106	3-1/8	3-3/8	2.36	60



Hose  
A

Fittings  
22 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

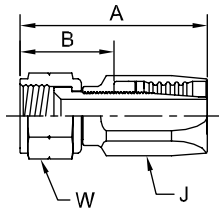
Adapters  
E

Accessories  
F

Appendices  
G

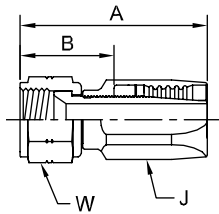
### 20822 Female SAE 45° - Swivel Straight

Note: "B" - Brass Fitting  
Note: Notch in nut for SAE 45° flare. See 20622 for additional sizes.



# Part Number	Thread			Hose		A		J	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	20822-4-4	1/4	7/16x20	-4	3/16	-4	1.74	44	5/8	9/16	0.96
20822-4-4B	1/4	7/16x20	-4	3/16	-4	1.74	44	5/8	9/16	0.96	24
20822-5-5	5/16	1/2x20	-5	1/4	-5	1.91	49	11/16	5/8	1.08	27
20822-5-5B	5/16	1/2x20	-5	1/4	-5	1.91	49	11/16	5/8	1.08	27
20822-6-6	3/8	5/8x18	-6	5/16	-6	2.08	53	13/16	3/4	1.16	29
20822-6-6B	3/8	5/8x18	-6	5/16	-6	2.08	53	13/16	3/4	1.16	29
20822-8-8	1/2	3/4x16	-8	13/32	-8	2.45	62	15/16	7/8	1.36	35
20822-8-8B	1/2	3/4x16	-8	13/32	-8	2.45	62	15/16	7/8	1.36	37
20822-10-10	5/8	7/8x14	-10	1/2	-10	2.80	71	1-1/8	1	1.58	40
20822-10-10B	5/8	7/8x14	-10	1/2	-10	2.80	71	1-1/8	1	1.58	40
20822-12-12	3/4	1-1/16x14	-12	5/8	-12	3.10	79	1-1/4	1-1/4	1.60	41
20822-12-12B	3/4	1-1/16x14	-12	5/8	-12	3.10	79	1-1/4	1-1/4	1.60	41

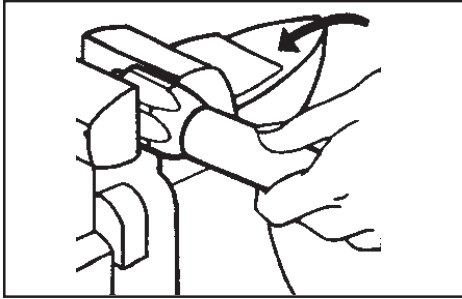
### 23222 Female PTT 30° - Swivel Straight



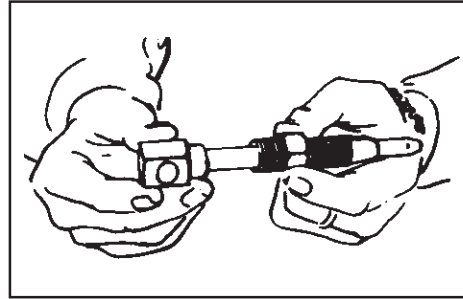
# Part Number	Thread			Hose		A		J	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	23222-16-16	1	1-5/16x14	-16	7/8	-16	2.55	65	1-7/16	1-1/2	1.36
23222-20-20	1-1/4	1-5/8x14	-20	1-1/8	-20	2.88	73	1-3/4	2	1.60	41



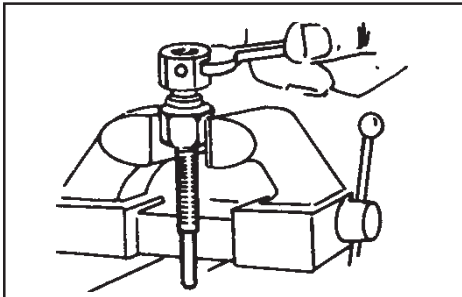
## 22 Series (Mandrel Style) Hose Assembly Instructions



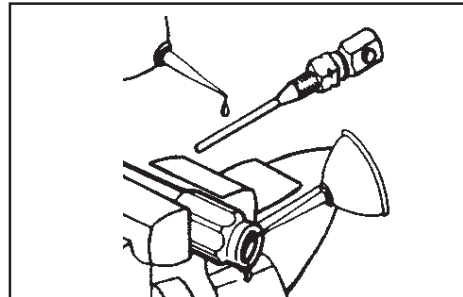
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut is obtained. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out 1/2 turn.



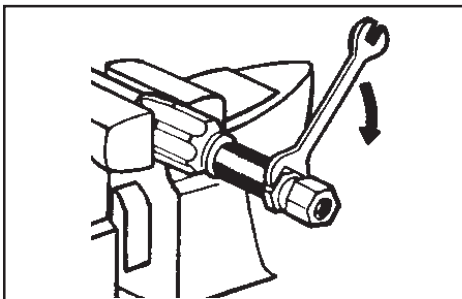
2. When assembling male pipe ends, slide nipple onto mandrel.



3. When assembling swivel ends, Slide swivel nut over nipple. Slide nut and nipple onto mandrel. Screw mandrel threads into nipple and wrench tighten.



4. Oil inside of hose and nipple threads liberally with Hoze-Oil. Do not oil hose cover.



5. Push nipple into socket.  
•Male ends: Thread nipple in until it bottoms against socket.  
•Swivel Ends: Thread nipple into socket using hex on assembly mandrel. Leave clearance of approximately 1/32" (.794mm) between nut and socket to allow nut to swivel. **Remove mandrel.**


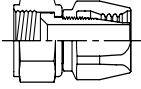

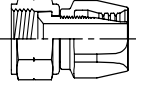

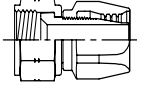

**Note:** Disassemble in reverse order.

**Caution: Do Not Attempt to Assemble These Fittings to the Hose Without Using a Mandrel.**

**Inspection.** Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

**Special Instructions for Refrigerant Hose.** Oil inside of hose and nipple threads liberally with the same oil used in refrigeration system. Do not oil hose cover. Do not allow hose to contact any petroleum base fluids.

**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL: PARKER HOSE PRODUCTS DIVISION TECHNICAL SERVICES DEPARTMENT**  
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FAX: 440 / 943-3129  
[www.parkerhose.com](http://www.parkerhose.com)

 <p><b>JIC 37°</b></p>	<p>20623 B-144</p>  <p><i>Female - Swivel Straight</i></p>	 <p><b>SAE 45°</b></p>	<p>20823 B-144</p>  <p><i>Female - Swivel Straight</i></p>	 <p><b>PTT 30°</b></p>	<p>23223 B-145</p>  <p><i>Female - Swivel Straight</i></p>
 <p><b>Assembly Instructions</b></p>	<p>23 Series                  Assembly                  Instructions                  B-146</p>				

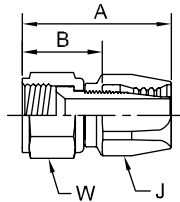
<p>Hose <b>A</b></p>
<p>Fittings 23 Series <b>B</b></p>
<p>Parkrimp Crimping Equipment <b>C</b></p>
<p>Hose Assembly Equipment <b>D</b></p>
<p>Adapters <b>E</b></p>
<p>Accessories <b>F</b></p>
<p>Appendices <b>G</b></p>

## Mandrel Assembly Fittings

Fittings -12 and smaller require use of mandrels for assembly to hose. Sizes -16 through -32 require use of assembly tools. Mandrels and assembly tools listed under Assembly Equipment in Section D.

### 20623 Female JIC 37° - Swivel Straight

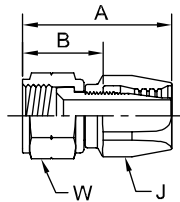
~ These 20623 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The -6 and -12 SAE (45°) swivel fittings are shown under part number 20823.



#	Thread			Hose		A		J	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
20623-4-4~	1/4	7/16x20	-4	3/16	-4	1.63	41	9/16	9/16	0.96	24
20623-5-5~	5/16	1/2x20	-5	1/4	-5	1.70	43	5/8	5/8	0.96	24
20623-6-6	3/8	9/16x18	-6	5/16	-6	1.91	49	3/4	11/16	1.13	29
20623-8-8~	1/2	3/4x16	-8	13/32	-8	2.16	55	7/8	7/8	1.24	31
20623-10-10~	5/8	7/8x14	-10	1/2	-10	2.37	60	1-1/16	1	1.37	35
20623-12-12	3/4	1-1/16x12	-12	5/8	-12	2.51	64	1-1/4	1-1/4	1.43	36
20623-16-16	1	1-5/16x12	-16	7/8	-16	2.50	64	1-7/16	1-1/2	1.51	38
20623-20-20	1-1/4	1-5/8x12	-20	1-1/8	-20	2.75	70	1-3/4	2	1.71	43
20623-24-24	1-1/2	1-7/8x12	-24	1-3/8	-24	3.00	76	2	2-1/4	1.90	48
20623-32-32	2	2-1/2x12	-32	1-13/16	-32	3.57	91	2-3/8	2-7/8	2.28	58

### 20823 Female SAE 45° - Swivel Straight

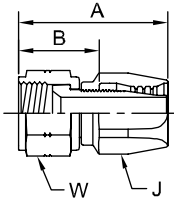
Note: "BA" - Steel Nut, Brass Nipple, Steel Shell  
 Note: "B" - Brass Fitting  
 Note: Notch in nut for SAE 45° flare. See 20623 for additional sizes.



#	Thread			Hose		A		J	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
20823-4-4	1/4	7/16x20	-4	3/16	-4	1.68	43	9/16	9/16	1.01	26
20823-4-4B	1/4	7/16x20	-4	3/16	-4	1.68	43	9/16	9/16	1.01	26
20823-4-4BA	1/4	7/16x20	-4	3/16	-4	1.68	43	9/16	9/16	1.01	26
20823-5-5	5/16	1/2x12	-5	1/4	-5	1.70	43	5/8	5/8	0.96	24
20823-5-5B	5/16	1/2x12	-5	1/4	-5	1.70	43	5/8	5/8	0.96	24
20823-5-5BA	5/16	1/2x12	-5	1/4	-5	1.70	43	5/8	5/8	0.96	24
20823-6-6	3/8	5/8x18	-6	5/16	-6	1.94	49	3/4	3/4	1.16	29
20823-6-6B	3/8	5/8x18	-6	5/16	-6	1.94	49	3/4	3/4	1.16	29
20823-6-6BA	3/8	5/8x18	-6	5/16	-6	1.94	49	3/4	3/4	1.16	29
20823-8-8	1/2	3/4x16	-8	13/32	-8	2.08	53	7/8	7/8	1.16	29
20823-8-8B	1/2	3/4x16	-8	13/32	-8	2.08	53	7/8	7/8	1.16	29
20823-8-8BA	1/2	3/4x16	-8	13/32	-8	2.08	53	7/8	7/8	1.16	29
20823-10-10	5/8	7/8x14	-10	1/2	-10	2.33	59	1-1/16	1	1.33	34
20823-10-10B	5/8	7/8x14	-10	1/2	-10	2.33	59	1-1/16	1	1.33	34
20823-10-10BA	5/8	7/8x14	-10	1/2	-10	2.33	59	1-1/16	1	1.33	34
20823-12-12	3/4	1-1/16x14	-12	5/8	-12	2.47	63	1-1/4	1-1/4	1.39	35
20823-12-12B	3/4	1-1/16x14	-12	5/8	-12	2.47	63	1-1/4	1-1/4	1.39	35
20823-12-12BA	3/4	1-1/16x14	-12	5/8	-12	2.47	63	1-1/4	1-1/4	1.39	35

Hose  
**A**  
 Fittings  
 23 Series  
**B**  
 Parkrimp  
 Crimping  
 Equipment  
**C**  
 Hose  
 Assembly  
 Equipment  
**D**  
 Adapters  
**E**  
 Accessories  
**F**  
 Appendices  
**G**

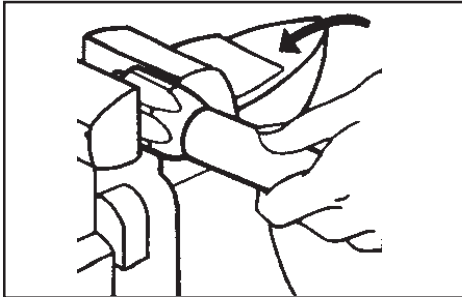
## 23223 Female PTT 30° - Swivel Straight



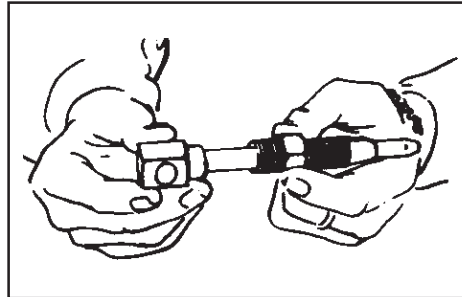
# Part Number	Thread			Hose		A		J	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
23223-16-16	1	1-5/16x14	-16	7/8	-16	2.29	58	1-7/16	1-1/2	1.30	33
23223-20-20	1-1/4	1-5/8x14	-20	1-1/8	-20	2.62	67	1-3/4	2	1.58	40
23223-24-24	1-1/2	1-7/8x14	-24	1-3/8	-24	2.81	71	2	2-1/4	1.71	43

Hose	A
Fittings 23 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

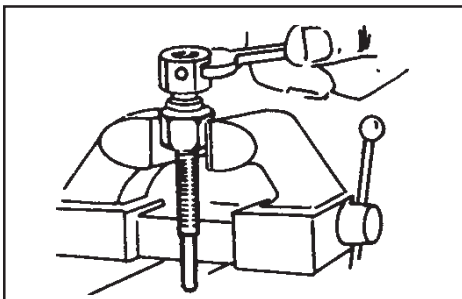
## 23 Series Mandrel Assembly Instructions



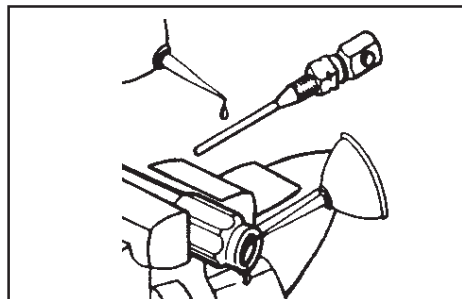
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut is obtained. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out 1/2 turn.



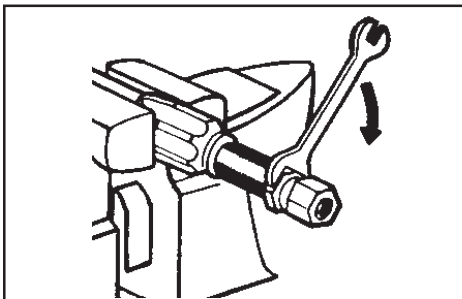
2. When assembling male pipe ends, slide nipple onto mandrel.



3. When assembling swivel ends, Slide swivel nut over nipple. Slide nut and nipple onto mandrel. Screw mandrel threads into nipple and wrench tighten.



4. Oil inside of hose and nipple threads liberally with Hoze-Oil. Do not oil hose cover.



5. Push nipple into socket.
  - Male ends: Thread nipple in until it bottoms against socket.
  - Swivel Ends: Apply wrench to hex of assembly mandrel.Thread nipple clockwise into socket until clearance between nut and socket is approximately 1/32" (.794mm) to allow nut to swivel. **Remove mandrel.**

**Note:** Disassemble in reverse order.


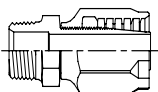
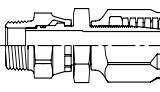

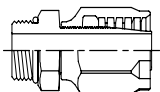

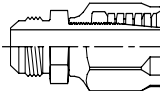
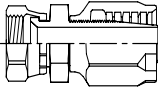
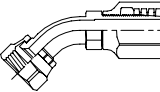
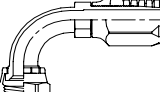
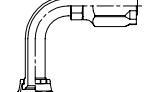
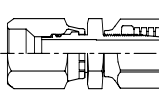

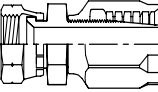

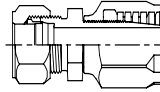
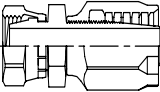

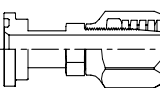
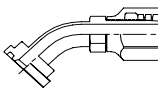
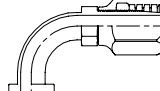

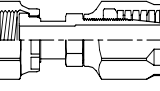
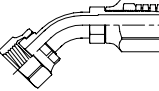
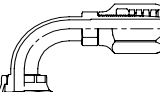
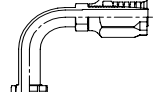

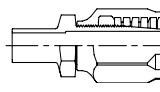
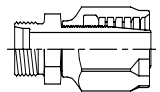
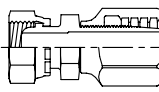
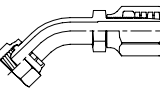
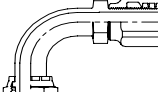

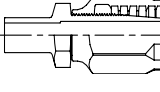
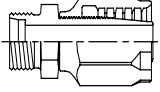
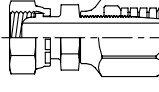
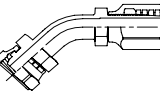
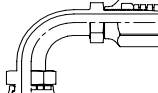
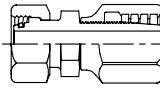

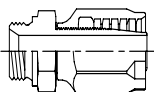
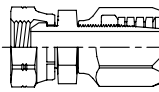

**Caution:** Do Not Attempt to Assemble These Fittings to the Hose Without Using a Mandrel.

**Inspection.** Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

**Special Instructions for Refrigerant Hose.** Oil inside of hose and nipple threads liberally with the same oil used in refrigeration system. Do not oil hose cover. Do not allow hose to contact any petroleum base fluids.

**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL: PARKER HOSE PRODUCTS DIVISION TECHNICAL SERVICES DEPARTMENT**

PHONE: 440 / 943-5700  
FAX: 440 / 943-3129  
[www.parkerhose.com](http://www.parkerhose.com)

 <b>Male Pipe</b>	20130 B-148  <i>Male - Rigid - Straight</i>	21330 B-148  <i>Male - Swivel Straight</i>	 <b>Straight Thread O-Ring</b>	20530 B-148  <i>Male - Rigid - Straight</i>	 <b>JIC 37°</b>
20330 B-149  <i>Male - Rigid - Straight</i>	20630 B-149  <i>Female - Swivel Straight</i>	23730 B-150  <i>Female - Swivel 45° Elbow</i>	23930 B-150  <i>Female - Swivel 90° Elbow</i>	24130 B-150  <i>Female - Swivel 90° Elbow - Long</i>	24830 B-151  <i>Female - Swivel under Pressure - Straight</i>
 <b>SAE 45°</b>	20830 B-151  <i>Female - Swivel Straight</i>	 <b>Flareless</b>	21130 B-151  <i>Male - Rigid - Straight</i>	21230 B-152  <i>Female - Swivel Straight</i>	 <b>Code 61 Flange</b>
21530 B-152  <i>Straight</i>	21730 B-152  <i>45° Elbow</i>	21930 B-153  <i>90° Elbow</i>	 <b>Seal-Lok®</b>	2JS30 B-153  <i>Female - Swivel Straight - Long</i>	2J730 B-153  <i>Female - Swivel 45° Elbow</i>
2J930 B-154  <i>Female - Swivel 90° Elbow</i>	2J130 B-154  <i>Female - Swivel 90° Elbow - Long</i>	 <b>DIN "L" Series</b>	21D30 B-154  <i>Male - Rigid - Straight</i>	2D030 B-155  <i>Male - Rigid - Straight</i>	2C330 B-155  <i>Female - Swivel Straight</i>
2C430 B-155  <i>Female - Swivel 45° Elbow</i>	2C530 B-156  <i>Female - Swivel 90° Elbow</i>	 <b>DIN "S" Series</b>	23D30 B-156  <i>Male - Rigid - Straight</i>	2D230 B-156  <i>Male - Rigid - Straight</i>	2C630 B-157  <i>Female - Swivel Straight</i>
2C730 B-157  <i>Female - Swivel 45° Elbow</i>	2C830 B-157  <i>Female - Swivel 90° Elbow</i>	2C930 B-158  <i>Female - Swivel Straight</i>	 <b>BSP</b>	2D930 B-158  <i>Male - Rigid - Straight</i>	29230 B-158  <i>Female - Swivel Straight</i>
 <b>Assembly Instructions</b>	30 Series Assembly Instructions B-159				

Hose  
**A**

Fittings  
30 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

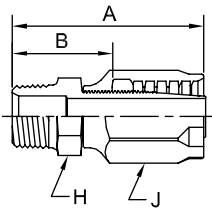
Appendices  
**G**

## 20130 Male NPTF Pipe - Rigid Straight

Hose  
**A**

Fittings  
30 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**



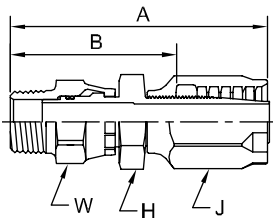
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	inch		inch		inch	mm	inch	inch	inch	mm
20130-2-3	1/8x27	-2	3/16	-3	2.01	51	1/2	3/4	1.23	31
20130-2-4	1/8x27	-2	1/4	-4	2.19	56	9/16	3/4	1.23	31
20130-4-4	1/4x18	-4	1/4	-4	2.38	60	9/16	3/4	1.42	36
20130-4-6	1/4x18	-4	3/8	-6	2.58	66	11/16	15/16	1.44	37
20130-6-4	3/8x18	-6	1/4	-4	2.38	60	3/4	3/4	1.41	36
20130-6-6	3/8x18	-6	3/8	-6	2.58	66	3/4	15/16	1.44	37
20130-6-8	3/8x18	-6	1/2	-8	2.92	74	7/8	1-1/16	1.58	40
20130-8-6	1/2x14	-8	3/8	-6	2.77	70	7/8	15/16	1.63	41
20130-8-8	1/2x14	-8	1/2	-8	3.11	79	7/8	1-1/16	1.77	45
20130-8-10	1/2x14	-8	5/8	-10	3.34	85	15/16	1-1/4	1.88	48
20130-12-8	3/4x14	-12	1/2	-8	3.17	81	1-1/8	1-1/16	1.83	46
20130-12-12	3/4x14	-12	3/4	-12	3.20	81	1-1/8	1-3/8	1.77	45
20130-12-16	3/4x14	-12	1	-16	3.55	90	1-3/8	1-3/4	1.84	47
20130-16-16	1x11-1/2	-16	1	-16	3.74	95	1-3/8	1-3/4	2.03	52
20130-20-20	1-1/4x11-1/2	-20	1-1/4	-20	4.59	117	1-3/4	2-1/4	2.46	62
20130-24-24	1-1/2x11-1/2	-24	1-1/2	-24	4.81	122	2	2-1/2	2.60	66
20130-32-32	2x11-1/2	-32	2	-32	5.75	146	2-1/2	3	3.25	83

## 21330 Male NPTF Pipe - Swivel Straight

Note: O-ring not compatible with Phosphate Ester fluids.

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**



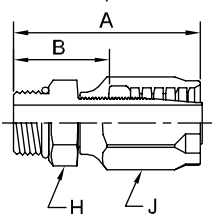
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	inch		inch		inch	mm	inch	inch	inch	inch	mm
21330-4-4	1/4x18	-4	1/4	-4	3.42	87	9/16	3/4	5/8	2.46	62
21330-6-6	3/8x18	-6	3/8	-6	3.67	93	7/8	15/16	3/4	2.53	64
21330-8-8	1/2x14	-8	1/2	-8	4.20	107	1	1-1/16	7/8	2.86	73
21330-12-12	3/4x14	-12	3/4	-12	4.30	109	1	1-3/8	1	2.87	73
21330-16-16	1x11-1/2	-16	1	-16	4.93	125	1-1/2	1-3/4	1-1/2	3.22	82

## 20530 Male SAE Straight Thread with O-Ring Rigid - Straight

Note: O-Ring not compatible with Phosphate Ester fluids.

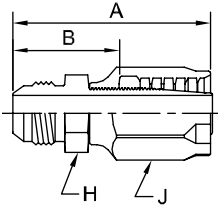
Accessories  
**F**

Appendices  
**G**



#	Thread		Hose		A		H	J	B		
	inch		inch		inch	mm	inch	inch	inch	mm	
20530-4-4	1/4	7/16x20	-4	1/4	-4	2.22	56	9/16	3/4	1.26	32
20530-6-4	3/8	9/16x18	-6	1/4	-4	2.25	57	11/16	3/4	1.29	33
20530-6-6	3/8	9/16x18	-6	3/8	-6	2.45	62	11/16	15/16	1.31	33
20530-8-6	1/2	3/4x16	-8	3/8	-6	2.53	64	7/8	15/16	1.39	35
20530-8-8	1/2	3/4x16	-8	1/2	-8	2.87	73	7/8	1-1/16	1.53	39
20530-10-8	5/8	7/8x14	-10	1/2	-8	2.93	74	1	1-1/16	1.59	40
20530-12-8	3/4	1-1/16x12	-12	1/2	-8	3.09	78	1-1/4	1-1/16	1.75	44
20530-12-12	3/4	1-1/16x12	-12	3/4	-12	3.12	79	1-1/4	1-3/8	1.69	43

### 20330 Male JIC 37° - Rigid - Straight

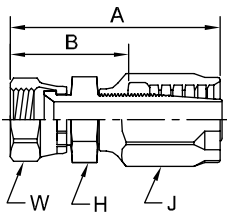


#	Thread			Hose		A		H	J	B	
	inch			inch		inch	mm	inch	inch	inch	mm
20330-4-4	1/4	7/16x20	-4	1/4	-4	2.37	60	9/16	3/4	1.41	36
20330-5-4	5/16	1/2x20	-5	1/4	-4	2.37	60	9/16	3/4	1.41	36
20330-6-4	3/8	9/16x18	-6	1/4	-4	2.38	60	5/8	3/4	1.42	36
20330-6-6	3/8	9/16x18	-6	3/8	-6	2.58	66	3/4	15/16	1.44	37
20330-8-6	1/2	3/4x16	-8	3/8	-6	2.68	68	13/16	15/16	1.54	39
20330-8-8	1/2	3/4x16	-8	1/2	-8	3.02	77	7/8	1-1/16	1.68	43
20330-10-8	5/8	7/8x14	-10	1/2	-8	3.12	79	15/16	1-1/16	1.78	45
20330-10-10	5/8	7/8x14	-10	5/8	-10	3.29	84	15/16	1-1/4	1.83	46
20330-12-12	3/4	1-1/16x12	-12	3/4	-12	3.31	84	1-1/8	1-3/8	1.88	48
20330-14-12	7/8	1-3/16x12	-14	3/4	-12	3.34	85	1-1/4	1-3/8	1.91	49
20330-16-16	1	1-5/16x12	-16	1	-16	3.71	94	1-3/8	1-3/4	2.00	51
20330-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.61	117	1-3/4	2-1/4	2.48	63

### 20630 Female JIC 37° - Swivel Straight

~ These 20630 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The -6 SAE (45°) swivel fitting is shown under part number 20830.

Note: "C" - Stainless Steel Fitting.



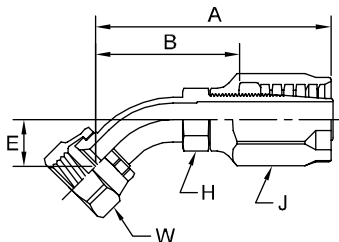
#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
20630-4-3~	1/4	7/16x20	-4	3/16	-3	2.27	58	9/16	3/4	9/16	1.49	38
20630-4-4~	1/4	7/16x20	-4	1/4	-4	2.45	62	9/16	3/4	9/16	1.49	38
20630-4-4C~	1/4	7/16x20	-4	1/4	-4	2.45	62	9/16	3/4	9/16	1.48	38
20630-5-4~	5/16	1/2x20	-5	1/4	-4	2.52	64	5/8	3/4	5/8	1.56	40
20630-6-4	3/8	9/16x18	-6	1/4	-4	2.54	65	11/16	3/4	11/16	1.58	40
20630-6-4C	3/8	9/16x18	-6	1/4	-4	2.54	65	11/16	3/4	11/16	1.57	40
20630-6-6	3/8	9/16x18	-6	3/8	-6	2.74	70	11/16	15/16	11/16	1.60	41
20630-6-6C	3/8	9/16x18	-6	3/8	-6	2.74	70	11/16	15/16	11/16	1.60	41
20630-8-6~	1/2	3/4x16	-8	3/8	-6	2.86	73	7/8	15/16	7/8	1.72	44
20630-8-6C~	1/2	3/4x16	-8	3/8	-6	2.85	72	7/8	15/16	7/8	1.71	43
20630-8-8~	1/2	3/4x16	-8	1/2	-8	3.20	81	7/8	1-1/16	7/8	1.86	47
20630-8-8C~	1/2	3/4x16	-8	1/2	-8	3.19	81	7/8	1-1/16	7/8	1.85	47
20630-10-8	5/8	7/8x14	-10	1/2	-8	3.30	84	1	1-1/16	1	1.96	50
20630-10-8C	5/8	7/8x14	-10	1/2	-8	3.30	84	1	1-1/16	1	1.96	50
20630-10-10~	5/8	7/8x14	-10	5/8	-10	3.54	90	1	1-1/4	1	2.08	53
20630-10-12~	5/8	7/8x14	-10	3/4	-12	3.40	86	1-1/8	1-3/8	1	1.97	50
20630-12-8	3/4	1-1/16x12	-12	1/2	-8	3.47	88	1-1/4	1-1/16	1-1/4	2.13	54
20630-12-10	3/4	1-1/16x12	-12	5/8	-10	3.64	92	1-1/4	1-1/4	1-1/4	2.18	55
20630-12-12	3/4	1-1/16x12	-12	3/4	-12	3.50	89	1-1/4	1-3/8	1-1/4	2.07	53
20630-12-12C	3/4	1-1/16x12	-12	3/4	-12	3.50	89	1-1/4	1-3/8	1-1/4	2.07	53
20630-14-12	7/8	1-3/16x12	-14	3/4	-12	3.50	89	1-3/8	1-3/8	1-3/8	2.07	53
20630-16-12	1	1-5/16x12	-16	3/4	-12	3.59	91	1-1/2	1-3/4	1-1/2	2.16	55
20630-16-16	1	1-5/16x12	-16	1	-16	3.94	100	1-1/2	1-3/4	1-1/2	2.23	57
20630-16-16C	1	1-5/16x12	-16	1	-16	3.94	100	1-1/2	1-3/4	1-1/2	2.22	56
20630-20-16	1-1/4	1-5/8x12	-20	1	-16	4.17	106	2	1-3/4	2	2.46	62
20630-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	4.96	126	2	2-1/4	2	2.83	72
20630-20-20C	1-1/4	1-5/8x12	-20	1-1/4	-20	4.96	126	2	2-1/4	2	2.50	64
20630-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	5.26	134	2-1/4	2-1/2	2-1/4	3.05	77
20630-32-32	2	2-1/2x12	-32	2	-32	6.42	163	2-7/8	3	2-7/8	3.92	100

Hose	A
Fittings 30 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



**23730 Female JIC 37° - Swivel  
45° Elbow - Short Drop**

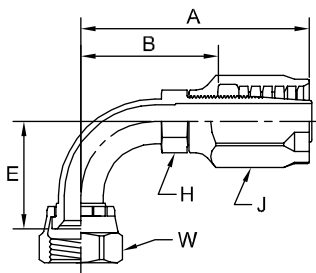
These 23730 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configurations only.



# Part Number	Thread			Hose		A		E		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
23730-4-4~	1/4	7/16x20	-4	1/4	-4	2.70	69	0.33	8	7/16	3/4	9/16	1.74	44
23730-6-6	3/8	9/16x18	-6	3/8	-6	3.01	76	0.39	10	9/16	15/16	11/16	1.87	47
23730-8-8~	1/2	3/4x16	-8	1/2	-8	3.55	90	0.55	14	11/16	1-1/16	7/8	2.21	56
23730-10-8~	5/8	7/8x14	-10	1/2	-8	3.61	92	0.65	17	13/16	1-1/16	1	2.27	58
23730-10-10~	5/8	7/8x14	-10	5/8	-10	3.78	96	0.65	17	7/8	1-1/4	1	2.20	56
23730-12-12	3/4	1-1/16x12	-12	3/4	-12	3.93	100	0.79	20	15/16	1-3/8	1-1/4	2.50	64
23730-16-16	1	1-5/16x12	-16	1	-16	4.51	115	0.90	23	1-1/4	1-3/4	1-1/2	2.80	71

**23930 Female JIC 37° - Swivel  
90° Elbow - Short Drop**

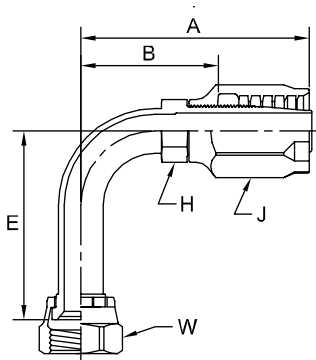
These 23930 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configurations only.



# Part Number	Thread			Hose		A		E		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
23930-4-4~	1/4	7/16x20	-4	1/4	-4	2.52	64	0.83	21	7/16	3/4	9/16	1.56	40
23930-6-6	3/8	9/16x18	-6	3/8	-6	2.91	74	0.85	22	9/16	15/16	11/16	1.77	45
23930-8-6~	1/2	3/4x16	-8	3/8	-6	3.04	77	1.09	28	11/16	15/16	7/8	1.90	48
23930-8-8~	1/2	3/4x16	-8	1/2	-8	3.32	84	1.09	28	11/16	1-1/16	7/8	1.98	50
23930-10-8~	5/8	7/8x14	-10	1/2	-8	3.46	88	1.24	31	13/16	1-1/16	1	2.12	54
23930-10-10~	5/8	7/8x14	-10	5/8	-10	3.63	92	1.24	31	7/8	1-1/4	1	2.17	55
23930-12-12	3/4	1-1/16x12	-12	3/4	-12	3.86	98	1.81	46	15/16	1-3/8	1-1/4	2.43	62
23930-16-16	1	1-5/16x12	-16	1	-16	4.48	114	2.14	54	1-1/4	1-3/4	1-1/2	2.77	70
23930-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	5.43	138	2.59	66	1-5/8	2-1/4	2	3.30	84

**24130 Female JIC 37° - Swivel  
90° Elbow - Long Drop**

These 24130 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configurations only.



# Part Number	Thread			Hose		A		E		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
24130-4-4~	1/4	7/16x20	-4	1/4	-4	2.69	68	1.80	46	7/16	3/4	9/16	2.69	68
24130-6-6	3/8	9/16x18	-6	3/8	-6	2.90	74	2.18	55	9/16	15/16	11/16	1.76	45
24130-8-8~	1/2	3/4x16	-8	1/2	-8	3.39	86	2.43	62	11/16	1-1/16	7/8	2.05	52
24130-10-8~	5/8	7/8x14	-10	1/2	-8	3.53	90	2.57	65	13/16	1-1/16	1	2.19	56
24130-10-10~	5/8	7/8x14	-10	5/8	-10	3.70	94	2.57	65	7/8	1-1/4	1	2.24	57
24130-12-12	3/4	1-1/16x12	-12	3/4	-12	3.75	95	3.73	95	15/16	1-3/8	1-1/4	2.32	59
24130-16-16	1	1-5/16x12	-16	1	-16	4.33	110	4.33	110	1-1/4	1-3/4	1-1/2	2.62	67

Hose  
A

Fittings  
30 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

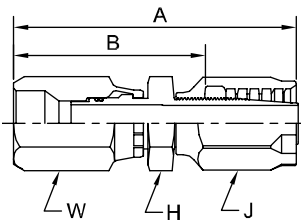
Adapters  
E

Accessories  
F

Appendices  
G

### 24830 Female JIC 37° - Swivel under Pressure - Straight

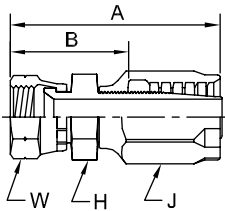
Note: The 24830 fitting allows minor movement under pressure to relieve stress on hose, but is not recommended for continuous or extensive swiveling.  
Note: O-Ring is not compatible with Phosphate Ester fluid.



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
24830-6-4	3/8	9/16x18	-6	1/4	-4	3.72	94	9/16	3/4	3/4	2.76	70
24830-8-6	1/2	3/4x16	-8	3/8	-6	3.99	101	7/8	15/16	7/8	2.85	72
24830-10-8	5/8	7/8x14	-10	1/2	-8	4.52	115	1	1-1/16	1	3.18	81
24830-14-12	7/8	1-3/16x12	-14	3/4	-12	4.73	120	1-3/8	1-3/8	1-3/8	3.30	84
24830-16-16	1	1-5/16x12	-16	1	-16	5.20	132	1-1/2	1-3/4	1-1/2	3.49	89

### 20830 Female SAE 45° - Swivel Straight

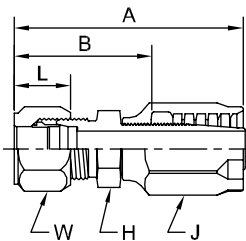
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
20830-6-6	3/8	5/8x18	-6	3/8	-6	2.81	71	3/4	15/16	3/4	1.67	42

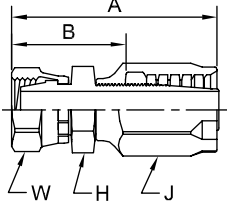
### 21130 Male Ferulok Flareless - Rigid Straight (24° Cone with Nut and Ferrule)

Note: The Parker Ferrul-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on the job repairs. See Ferrul-Fix Installation instructions in Section G.



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
21130-4-4	1/4	7/16x20	-4	1/4	-4	2.50	64	9/16	3/4	9/16	1.45	37
21130-4-6	1/4	7/16x20	-4	3/8	-6	2.85	72	3/4	15/16	9/16	1.71	43
21130-6-6	3/8	9/16x18	-6	3/8	-6	2.97	75	3/4	15/16	11/16	1.83	46
21130-8-6	1/2	3/4x16	-8	3/8	-6	3.12	79	7/8	15/16	7/8	1.98	50
21130-8-8	1/2	3/4x16	-8	1/2	-8	3.44	87	7/8	1-1/16	7/8	2.10	53
21130-10-8	5/8	7/8x14	-10	1/2	-8	3.51	89	15/16	1-1/16	1	2.17	55
21130-12-12	3/4	1-1/16x12	-12	3/4	-12	3.75	95	1-1/8	1-3/8	1-1/4	2.32	59
21130-16-16	1	1-5/16x12	-16	1	-16	4.15	105	1-3/8	1-3/4	1-1/2	2.44	62

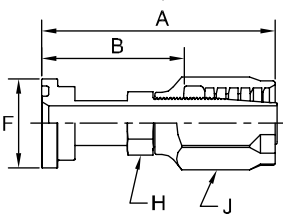
**21230 Female Ferulok Flareless  
Swivel - Straight (24° Cone)**



#	Thread			Hose		A		H	J	W		B	
	inch			inch		inch	mm	inch	inch	inch	inch	inch	mm
	inch	mm	mm	inch	mm	inch	mm	inch	inch	inch	inch	inch	mm
21230-4-4	1/4	7/16x20	-4	1/4	-4	2.62	67	9/16	3/4	9/16	1.66	42	
21230-6-6	3/8	9/16x18	-6	3/8	-6	2.94	75	11/16	15/16	11/16	1.80	46	
21230-8-6	1/2	3/4x16	-8	3/8	-6	3.16	80	7/8	15/16	7/8	2.02	51	
21230-8-8	1/2	3/4x16	-8	1/2	-8	3.44	87	7/8	1-1/16	7/8	2.10	53	
21230-10-8	5/8	7/8x14	-10	1/2	-8	3.63	92	1	1-1/16	1	2.29	58	
21230-12-12	3/4	1-1/16x12	-12	3/4	-12	3.86	98	1-1/4	1-3/8	1-1/4	2.43	62	
21230-16-16	1	1-5/16x12	-16	1	-16	4.24	108	1-1/2	1-3/4	1-1/2	2.53	64	

**21530 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L**

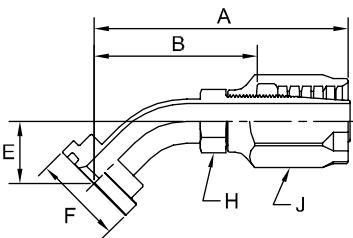
Note: Flange Kits and O-Rings are listed in Section F.



#	Flange		Hose		A		F	H	J	B	
	inch		inch		inch	mm	inch	inch	inch	inch	mm
	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
21530-8-8	1/2	-8	1/2	-8	4.02	102	1-3/16	11/16	1-1/16	2.68	68
21530-12-8	3/4	-12	1/2	-8	4.09	104	1-1/2	11/16	1-1/16	2.75	70
21530-12-12	3/4	-12	3/4	-12	3.91	99	1-1/2	15/16	1-3/8	2.48	63
21530-16-12	1	-16	3/4	-12	3.91	99	1-3/4	15/16	1-3/8	2.48	63
21530-16-16	1	-16	1	-16	4.30	109	1-3/4	1-1/4	1-3/4	2.59	66
21530-20-12	1-1/4	-20	3/4	-12	3.91	99	2	15/16	1-3/8	2.48	63
21530-20-16	1-1/4	-20	1	-16	4.30	109	2	1-1/4	1-3/4	2.59	66
21530-20-20	1-1/4	-20	1-1/4	-20	5.70	145	2	1-1/4	2-1/4	3.57	91
21530-24-20	1-1/2	-24	1-1/4	-20	5.76	146	2-3/8	1-5/8	2-1/4	3.63	92
21530-24-24	1-1/2	-24	1-1/4	-24	5.89	150	2-3/8	1-7/8	2-1/2	3.66	93
21530-32-32	2	-32	2	-32	6.84	174	2-13/16	2-1/2	3	4.34	110

**21730 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO 12151-3 - E45M - L)**

Note: Flange Kits and O-Rings are listed in Section F.



#	Flange		Hose		A		E		F	H	J	B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
21730-12-8	3/4	-12	1/2	-8	4.02	102	0.85	22	1-1/2	11/16	1-1/16	2.68	68
21730-12-12	3/4	-12	3/4	-12	3.99	101	0.99	25	1-1/2	15/16	1-3/8	2.56	65
21730-16-12	1	-16	3/4	-12	3.99	101	0.99	25	1-3/4	15/16	1-3/8	2.56	65
21730-16-16	1	-16	1	-16	4.50	114	1.06	27	1-3/4	1-1/4	1-3/4	2.79	71
21730-20-16	1-1/4	-20	1	-16	4.53	115	1.06	27	2	1-1/4	1-3/4	2.82	72
21730-20-20	1-1/4	-20	1-1/4	-20	5.54	141	1.13	29	2	1-5/8	2-1/4	3.41	87
21730-24-20	1-1/2	-24	1-1/4	-20	5.58	142	1.17	30	2-3/8	1-5/8	2-1/4	3.45	88
21730-24-24	1-1/2	-24	1-1/2	-24	6.88	175	1.43	36	2-3/8	1-7/8	2-1/2	4.67	119
21730-32-32	2	-32	2	-32	9.12	232	1.99	51	2-13/16	2-1/2	3	6.62	168

Hose  
A

Fittings  
30 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

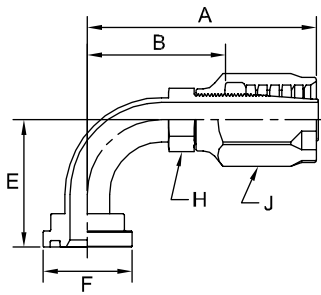
Adapters  
E

Accessories  
F

Appendices  
G

**21930 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)**

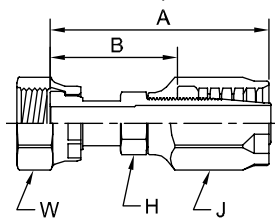
Note: Flange Kits and O-Rings are listed in Section F.



#	Flange		Hose		A		E		F		H		J		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
21930-8-8	1/2	-8	1/2	-8	3.37	86	1.62	41	1-3/16	11/16	1-1/16	2.03	52			
21930-12-8	3/4	-12	1/2	-8	3.36	85	1.69	43	1-1/2	11/16	1-1/16	2.02	51			
21930-12-12	3/4	-12	3/4	-12	3.71	94	2.10	53	1-1/2	15/16	1-3/8	2.28	58			
21930-16-12	1	-16	3/4	-12	3.71	94	2.10	53	1-3/4	15/16	1-3/8	2.28	58			
21930-16-16	1	-16	1	-16	4.33	110	2.37	60	1-3/4	1-1/4	1-3/4	2.62	67			
21930-20-12	1-1/4	-20	3/4	-12	3.71	94	2.10	53	2	15/16	1-3/8	2.28	58			
21930-20-16	1-1/4	-20	1	-16	4.33	110	2.37	60	2	1-1/4	1-3/4	2.62	67			
21930-20-20	1-1/4	-20	1-1/4	-20	5.44	138	2.50	64	2	1-5/8	2-1/4	3.31	84			
21930-24-20	1-1/2	-24	1-1/4	-20	5.44	138	2.56	65	2-3/8	1-5/8	2-1/4	3.31	84			
21930-24-24	1-1/2	-24	1-1/2	-24	6.88	175	3.12	79	2-3/8	1-7/8	2-1/2	4.67	119			
21930-32-32	2	-32	2	-32	8.62	219	4.49	114	2-13/16	2-1/2	3	6.12	155			

**2JS30 Female Seal-Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB**

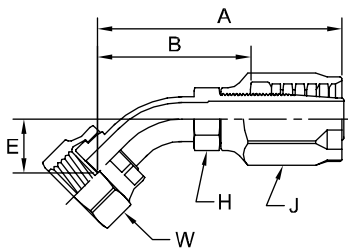
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H		J		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
2JS30-4-4	1/4	9/16x18	-4	1/4	-4	2.62	67	9/16	3/4	11/16	1.66	42		
2JS30-6-6	3/8	11/16x16	-6	3/8	-6	2.89	73	9/16	15/16	13/16	1.75	44		
2JS30-8-8	1/2	13/16x16	-8	1/2	-8	3.32	84	11/16	1-1/16	15/16	1.98	50		
2JS30-10-10	5/8	1x14	-10	5/8	-10	3.59	91	7/8	1-1/4	1-1/8	2.13	54		
2JS30-12-12	3/4	1-3/16x12	-12	3/4	-12	3.65	93	15/16	1-3/8	1-3/8	2.22	56		
2JS30-16-16	1	1-7/16x12	-16	1	-16	4.03	102	1-1/4	1-3/4	1-5/8	2.32	59		
2JS30-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	4.86	123	1-5/8	2-1/4	1-7/8	2.73	69		

**2J730 Female Seal-Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45**

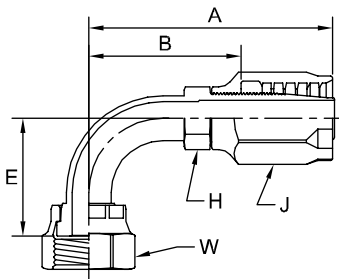
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		H		J		W		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
2J730-4-4	1/4	9/16x18	-4	1/4	-4	2.85	72	0.41	10	7/16	3/4	11/16	1.89	48		
2J730-6-6	3/8	11/16x16	-6	3/8	-6	3.05	77	0.43	11	9/16	15/16	13/16	1.91	49		
2J730-8-8	1/2	13/16x16	-8	1/2	-8	3.58	91	0.59	15	11/16	1-1/16	15/16	2.24	57		
2J730-10-10	5/8	1x14	-10	5/8	-10	3.90	99	0.65	17	7/8	1-1/4	1-1/8	2.44	62		
2J730-12-12	3/4	1-3/16x12	-12	3/4	-12	3.81	97	0.81	21	15/16	1-3/8	1-3/8	2.38	60		
2J730-16-16	1	1-7/16x12	-16	1	-16	4.79	122	0.94	24	1-1/4	1-3/4	1-5/8	3.08	78		
2J730-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	5.78	147	1.00	25	1-5/8	2-1/4	1-7/8	3.32	84		

**2J930 Female Seal-Lok® - Swivel**  
**90° Elbow - Short Drop**  
**ISO 12151-1 - SWES90**

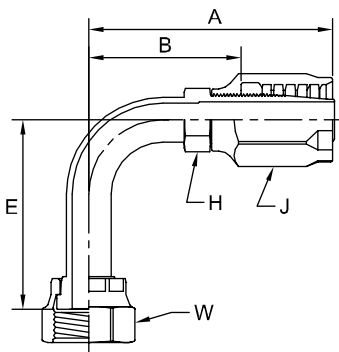
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		H	J	W	B		
	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm	
2J930-4-4	1/4	9/16x18	-4	1/4	-4	2.83	72	0.82	21	7/16	3/4	11/16	1.87	47
2J930-6-6	3/8	11/16x16	-6	3/8	-6	2.91	74	0.90	23	9/16	15/16	13/16	1.77	45
2J930-8-8	1/2	13/16x16	-8	1/2	-8	3.31	84	1.15	29	11/16	1-1/16	15/16	1.97	50
2J930-10-10	5/8	1x14	-10	5/8	-10	3.57	91	1.27	32	7/8	1-1/4	1-1/8	2.11	54
2J930-12-12	3/4	1-3/16x12	-12	3/4	-12	3.71	94	1.85	47	15/16	1-3/8	1-3/8	2.28	58
2J930-16-16	1	1-7/16x12	-16	1	-16	4.94	125	2.21	56	1-1/4	1-3/4	1-5/8	3.23	82
2J930-20-20	1-1/4	1-11/16x12	-20	1-1/4	-20	5.90	150	2.51	64	1-5/8	2-1/4	1-7/8	3.44	87

**2J130 Female Seal-Lok® - Swivel**  
**90° Elbow - Long Drop**  
**ISO 12151-1 - SWEL90**

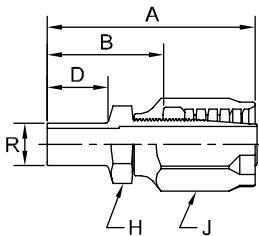
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		H	J	W	B		
	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm	
2J130-4-4	1/4	9/16x18	-4	1/4	-4	2.62	67	1.80	46	7/16	3/4	11/16	1.66	42
2J130-6-6	3/8	11/16x16	-6	3/8	-6	3.01	76	2.13	54	9/16	15/16	13/16	1.87	47
2J130-8-8	1/2	13/16x16	-8	1/2	-8	3.36	85	2.51	64	11/16	1-1/16	15/16	2.02	51
2J130-10-10	5/8	1x14	-10	5/8	-10	3.70	94	2.76	70	7/8	1-1/4	1-1/8	2.24	57
2J130-12-12	3/4	1-3/16x12	-12	3/4	-12	3.75	95	3.78	96	15/16	1-3/8	1-3/8	2.32	59
2J130-16-16	1	1-7/16x12	-16	1	-16	4.33	110	4.50	114	1-1/4	1-3/4	1-5/8	2.62	67

**21D30 Male Standpipe Metric L**  
**Rigid - Straight - ISO 8434-1**

Note: Mates with EO "L" Series fittings.

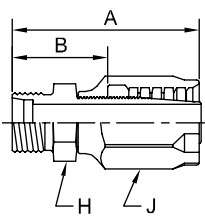


#	R		Hose		A		D		H	J	B	
	mm	mm	inch	inch	inch	mm	inch	mm	mm	inch	inch	mm
21D30-6-4	6	-6	1/4	-4	2.69	68	0.87	22	14	3/4	1.73	44
21D30-8-4	8	-8	1/4	-4	2.60	86	0.87	22	14	3/4	1.57	40
21D30-12-6	12	-12	3/8	-6	2.87	73	0.91	23	17	15/16	1.65	42
21D30-15-8	15	-15	1/2	-8	3.42	87	0.98	25	19	1-1/16	2.08	53
21D30-18-10	18	-18	5/8	-10	3.50	89	1.02	26	24	1-1/4	2.01	51
21D30-18-12	18	-18	3/4	-12	3.47	88	1.02	26	27	1-3/8	2.04	52
21D30-22-12	22	-22	3/4	-12	3.55	90	1.10	28	27	1-3/8	2.12	54
21D30-28-16	28	-28	1	-16	3.98	101	1.18	30	32	1-3/4	2.27	58
21D30-35-20	35	-35	1-1/4	-20	5.07	129	1.42	36	41	2-1/4	2.94	75
21D30-42-24	42	-42	1-1/2	-24	5.23	133	1.42	36	50	2-1/2	3.02	77

Hose  
A  
Fittings  
30 Series  
B  
Parkrimp  
Crimping  
Equipment  
C  
Hose  
Assembly  
Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G

### 2D030 Male Metric L - Rigid Straight (24° Cone) - ISO 8434-1

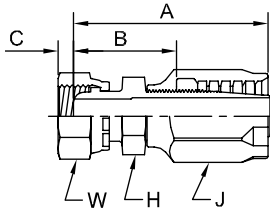
Note: Mates with EO "L" Series fittings.



#	Thread		Hose		A		H	J	B		
	mm	mm	inch	inch	inch	mm	mm	inch	inch	mm	
2D030-6-4	6	M12X1,5	-6	1/4	-4	2.13	54	14	3/4	1.06	14
2D030-8-4	8	M14X1,5	-8	1/4	-4	2.13	54	14	3/4	1.06	14
2D030-10-6	10	M16X1,5	-10	3/8	-6	2.40	61	17	15/16	1.22	31
2D030-12-6	12	M18X1,5	-12	3/8	-6	2.40	61	19	15/16	1.18	30
2D030-15-8	15	M22X1,5	-15	1/2	-8	2.64	67	22	1-1/16	1.30	33
2D030-18-10	18	M26X1,5	-18	5/8	-10	2.95	75	27	1-1/4	1.42	36
2D030-18-12	18	M26X1,5	-18	3/4	-12	2.80	71	27	1-3/8	1.30	33
2D030-35-20	35	M45X2	-35	1-1/4	20	4.29	109	46	2-1/4	2.01	51

### 2C330 Female Metric L - Swivel Straight (Ball Nose) - ISO 8434-1

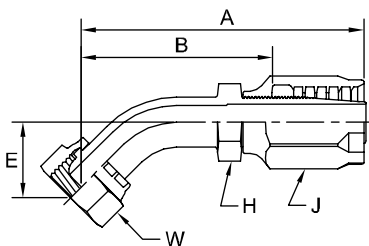
Note: Mates with EO "L" Series fittings.



#	Thread		Hose		A		C	H	J	W	B		
	mm	mm	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	
2C330-6-4	6	M12x1,5	-6	1/4	-4	2.28	58	0.09	2	14	14	1.22	31
2C330-8-4	8	M14x1,5	-8	1/4	-4	2.28	58	0.11	3	14	17	1.26	32
2C330-10-6	10	M16x1,5	-10	3/8	-6	2.56	65	0.06	2	17	19	1.38	35
2C330-12-6	12	M18x1,5	-12	3/8	-6	2.56	65	0.10	3	19	22	1.34	34
2C330-15-8	15	M22x1,5	-15	1/2	-8	2.99	76	0.17	4	22	27	1.61	41
2C330-18-10	18	M26x1,5	-18	5/8	-10	3.19	81	0.10	3	27	32	1.65	42
2C330-18-12	18	M26x1,5	-18	3/4	-12	3.03	77	0.10	3	27	32	1.50	38
2C330-22-12	22	M30x2	-22	3/4	-12	3.19	81	0.18	5	30	36	1.65	42
2C330-28-16	28	M36x2	-28	1	-16	3.82	97	0.22	6	36	46	2.01	51
2C330-35-20	35	M45x2	-35	1-1/4	-20	4.57	116	0.28	7	50	55	2.28	58
2C330-42-24	42	M52x2	-42	1-1/2	-24	4.92	125	0.42	11	50	60	2.52	64

### 2C430 Female Metric L - Swivel 45° Elbow (Ball Nose) - ISO 8434-1

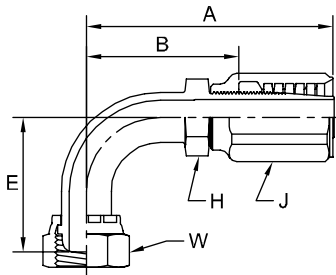
Note: Mates with EO "L" Series fittings.



#	Thread		Hose		A		E		H	J	W	B		
	mm	mm	inch	inch	inch	mm	inch	mm	mm	inch	mm	inch	mm	
2C430-6-4	6	M12X1,5	-6	1/4	-4	2.80	71	0.67	17	14	3/4	14	1.77	45
2C430-8-4	8	M14X1,5	-8	1/4	-4	3.03	77	0.67	17	14	3/4	17	1.93	49
2C430-10-6	10	M16X1,5	-10	3/8	-6	3.27	83	0.71	18	17	15/16	19	2.20	56
2C430-12-6	12	M18X1,5	-12	3/8	-6	3.50	89	0.75	19	17	15/16	22	2.28	58
2C430-15-8	15	M22X1,5	-15	1/2	-8	3.94	100	0.83	21	22	1-1/16	27	2.52	64
2C430-18-10	18	M26X1,5	-18	5/8	-10	4.41	112	0.91	23	27	1-1/4	32	2.83	72
2C430-22-12	22	M30X2	-22	3/4	-12	4.69	119	1.14	29	30	1-3/8	36	3.11	79

**2C530 Female Metric L - Swivel  
90° Elbow (Ball Nose) - ISO 8434-1**

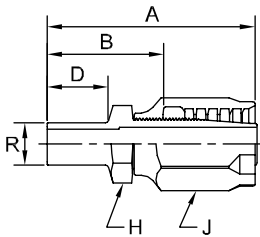
Note: Mates with EO "L" Series fittings.



#	Thread			Hose		A		E		H	J	W		B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm	inch	mm	
2C530-6-4	6	M12x1,5	-6	1/4	-4	2.56	65	1.14	29	14	3/4	14	1.57	40	
2C530-8-4	8	M14x1,5	-8	1/4	-4	2.64	67	1.18	30	14	3/4	17	1.57	40	
2C530-10-6	10	M16x1,5	-10	3/8	-6	2.95	75	1.38	35	17	15/16	19	1.85	47	
2C530-12-6	12	M18x1,5	-12	3/8	-6	3.15	80	1.42	36	17	15/16	22	1.93	49	
2C530-15-8	15	M22x1,5	-15	1/2	-8	3.50	89	1.65	42	22	1-1/16	27	2.09	53	
2C530-18-10	18	M26x1,5	-18	5/8	-10	4.21	107	1.97	50	27	1-1/4	32	2.64	67	
2C530-18-12	18	M26x1,5	-18	3/4	-12	4.33	110	1.97	50	30	1-3/8	32	2.83	72	
2C530-22-12	22	M30x2	-22	3/4	-12	4.45	113	2.52	64	30	1-3/8	36	2.87	73	
2C530-28-16	28	M36x2	-28	1	-16	4.69	119	2.64	67	32	1-3/4	46	2.95	75	

**23D30 Male Standpipe Metric S  
Rigid - Straight - ISO 8434-1**

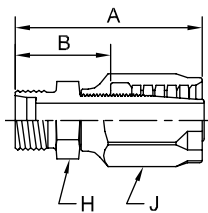
^^ Can also be used with EO "L" Series fittings.  
Note: Mates with EO "S" Series fittings.



#	R		Hose		A		D		H	J	B	
	mm		inch		inch	mm	inch	mm	mm	inch	inch	mm
21D30-8-4^^	8	-8	1/4	-4	2.60	66	0.87	22	14	3/4	1.57	40
23D30-10-4	10	-10	1/4	-4	2.80	71	1.02	26	14	3/4	1.77	45
21D30-12-6^^	12	-12	3/8	-6	2.87	73	0.91	23	17	15/16	1.65	42
23D30-14-6	14	-14	3/8	-6	3.11	79	1.14	29	17	15/16	1.89	48
23D30-16-8	16	-16	1/2	-8	3.43	87	1.18	30	19	1-1/16	2.01	51
23D30-20-10	20	-20	5/8	-10	4.02	102	1.42	36	24	1-1/4	2.44	62
23D30-20-12	20	-20	3/4	-12	3.82	97	1.41	36	27	1-3/8	2.39	61
23D30-25-12	25	-25	3/4	-12	3.97	101	1.57	40	27	1-3/8	2.54	65
23D30-30-16	30	-30	1	-16	4.61	117	1.73	44	32	1-3/4	2.80	71
23D30-38-20	38	-38	1-1/4	-20	5.65	144	1.97	50	41	2-1/4	3.52	89

**2D230 Male Metric S - Rigid  
Straight (24° Cone) - ISO 8434-1**

Note: Mates with EO "S" Series fittings.



#	Thread			Hose		A		H	J	B	
	mm			inch		inch	mm	mm	inch	inch	mm
2D230-8-4	8	M16X1,5	-8	1/4	-4	2.28	58	17	11/16	1.22	31
2D230-10-4	10	M18X1,5	-10	1/4	-4	2.32	59	19	11/16	1.26	32
2D230-12-6	12	M20X1,5	-12	3/8	-6	2.56	65	22	7/8	1.34	34
2D230-14-6	14	M22X1,5	-14	3/8	-6	2.60	66	22	7/8	1.38	35
2D230-16-8	16	M24X1,5	-16	1/2	-8	2.95	75	24	1	1.54	39
2D230-20-10	20	M30X2	-20	5/8	-10	3.27	83	30	1-1/8	1.73	44
2D230-20-12	20	M30X2	-20	3/4	-12	3.15	80	30	1-3/8	1.61	41
2D230-25-12	25	M36X2	-25	3/4	-12	3.31	84	36	1-3/8	1.77	45
2D230-30-16	30	M42X2	-30	1	-16	3.70	94	46	1-5/8	1.89	48

Hose  
A

Fittings  
30 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

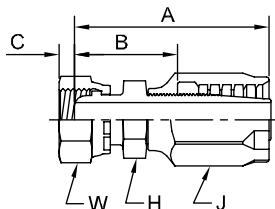
Adapters  
E

Accessories  
F

Appendices  
G

### 2C630 Female Metric S - Swivel Straight (Ball Nose) - ISO 8434-1

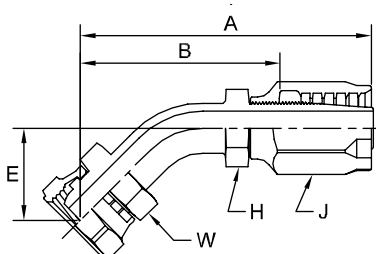
Note: Mates with EO "S" Series fittings.  
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread	Hose	A		C		H	J	W	B	
			mm	inch	inch	mm	mm	inch	mm	inch	mm
2C630-8-4	8 M16x1,5 -8	1/4 -4	2.36	60	0.15	4	17	3/4	19	1.34	34
2C630-10-4	10 M18x1,5 -10	1/4 -4	2.44	62	0.10	3	17	3/4	22	1.38	35
2C630-12-6	12 M20x1,5 -12	3/8 -6	2.68	68	0.08	2	19	15/16	24	1.46	37
2C630-14-6	14 M22x1,5 -14	3/8 -6	2.99	76	0.17	4	24	15/16	27	1.82	46
2C630-16-8	16 M24x1,5 -16	1/2 -8	2.99	76	0.19	5	24	1-1/16	30	1.57	40
2C630-20-10	20 M30x2 -20	5/8 -10	3.35	85	0.21	5	30	1-1/4	36	1.81	46
2C630-20-12	20 M30x2 -20	3/4 -12	3.27	83	0.21	5	30	1-3/8	40	1.77	45
2C630-25-12	25 M36x2 -25	3/4 -12	3.19	81	0.28	7	36	1-3/8	46	1.61	41
2C630-30-16	30 M42x2 -30	1 -16	3.58	91	0.37	9	41	1-3/4	50	1.85	47
2C630-38-20	38 M52x2 -38	1-1/4 -20	4.29	109	0.41	10	50	2-1/4	60	1.91	49

### 2C730 Female Metric S - Swivel 45° Elbow (Ball Nose) - ISO 8434-1

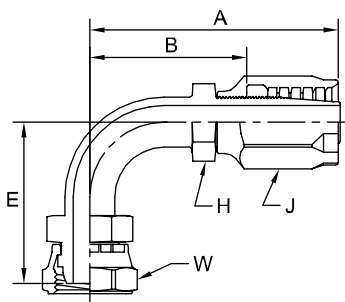
Note: Mates with EO "S" Series fittings.



#	Thread	Hose	A		E		H	J	W	B	
			mm	inch	inch	mm	mm	inch	mm	inch	mm
2C730-10-4	10 M18x1,5 -10	1/4 -4	3.07	78	0.71	18	14	3/4	22	1.97	50
2C730-12-6	12 M20x1,5 -12	3/8 -6	3.35	85	0.79	20	14	15/16	24	2.24	57
2C730-14-6	14 M22x1,5 -14	3/8 -6	3.58	91	0.83	21	17	15/16	27	2.36	60
2C730-16-8	16 M24x1,5 -16	1/2 -8	3.90	99	0.83	21	22	1-1/16	30	2.48	63
2C730-20-10	20 M30x2 -20	5/8 -10	4.45	113	0.98	25	27	1-1/4	36	2.91	74
2C730-25-12	25 M36x2 -25	3/4 -12	4.65	118	1.10	28	30	1-3/8	46	3.07	78
2C730-30-16	30 M42x2 -30	1 -16	4.88	124	1.10	28	32	1-3/4	50	3.15	80

### 2C830 Female Metric S - Swivel 90° Elbow (Ball Nose) - ISO 8434-1

Note: Mates with EO "S" Series fittings.

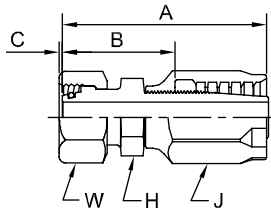


#	Thread	Hose	A		E		H	J	W	B	
			mm	inch	inch	mm	mm	inch	mm	inch	mm
2C830-10-4	10 M18x1,5 -10	1/4 -4	2.36	60	1.34	34	14	3/4	19	1.31	33
2C830-12-6	12 M20x1,5 -12	3/8 -6	2.95	75	1.46	37	14	15/16	24	1.85	47
2C830-14-6	14 M22x1,5 -14	3/8 -6	3.15	80	1.54	39	17	15/16	27	0.98	25
2C830-16-8	16 M24x1,5 -16	1/2 -8	3.50	89	1.61	41	22	1-1/16	30	2.09	53
2C830-20-10	20 M30x2 -20	5/8 -10	4.21	107	2.09	53	27	1-1/4	36	2.64	67
2C830-20-12	20 M30x2 -20	3/4 -12	4.37	111	2.28	58	27	1-3/8	36	2.76	70
2C830-25-12	25 M36x2 -25	3/4 -12	4.45	113	2.48	63	30	1-3/8	46	2.87	73
2C830-30-16	30 M42x2 -30	1 -16	4.69	119	2.48	63	32	1-3/4	50	2.95	75



**2C930 Female Metric S - Swivel  
Straight (24° Cone with O-Ring)  
ISO 12151-2 - SWS**

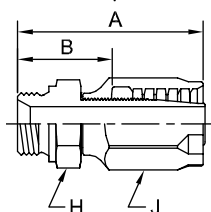
Note: Mates with EO "S" Series fittings.  
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread		Hose		A		C		H	J	W	B		
	mm		inch		inch	mm	inch	mm	mm	inch	mm	inch	mm	
	Part Number	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	inch	mm	
2C930-8-4	8	M16x1,5	-8	1/4	-4	2.36	60	0.01	0	17	3/4	19	1.34	34
2C930-10-4	10	M18x1,5	-10	1/4	-4	2.44	62	0.01	0	17	3/4	22	1.38	35
2C930-12-6	12	M20x1,5	-12	3/8	-6	2.68	68	0.03	1	19	15/16	24	1.46	37
2C930-16-8	16	M24x1,5	-16	1/2	-8	2.99	76	0.09	2	24	1-1/16	30	1.57	40
2C930-20-10	20	M30x2	-20	5/8	-10	3.35	85	0.05	1	30	1-1/4	36	1.81	46
2C930-25-12	25	M36x2	-25	3/4	-12	3.19	81	0.10	3	36	1-3/8	46	1.61	41
2C930-30-16	30	M42x2	-30	1	-16	3.58	91	0.19	5	41	1-3/4	50	1.85	47

**2D930 Male BSP Parallel Pipe  
Rigid - Straight (60° Cone)  
ISO 228-1**

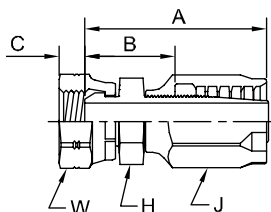
Note: When used in a port, a bonded seal must be used.  
See Section F.



#	Thread		Hose		A		H	J	B	
	inch		inch		inch	mm	mm	inch	inch	mm
	Part Number	inch	inch	mm	inch	mm	mm	inch	inch	mm
2D930-4-4	1/4x19	-4	1/4	-4	2.32	59	19	3/4	1.30	33
2D930-6-6	3/8x19	-6	3/8	-6	2.56	65	22	15/16	1.34	34
2D930-8-8	1/2x14	-8	1/2	-8	2.99	76	27	1-1/16	1.57	40
2D930-12-12	3/4x14	-12	3/4	-12	3.19	81	32	1-3/8	1.65	42
2D930-16-16	1x11	-16	1	-16	3.66	93	41	1-3/4	1.85	47
2D930-20-20	1-1/4x11	-20	1-1/4	-20	4.57	116	50	2-1/4	2.28	58

**29230 Female BSP Parallel Pipe  
Swivel - Straight (60° Cone)  
ISO 228-1**

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread		Hose		A		C		H	J	W	B	
	inch		inch		inch	mm	inch	mm	mm	inch	mm	inch	mm
	Part Number	inch	inch	mm	inch	mm	inch	mm	mm	inch	mm	inch	mm
29230-4-4	1/4x19	-4	1/4	-4	2.28	58	0.24	6	14	3/4	19	1.26	32
29230-6-6	3/8x19	-6	3/8	-6	2.82	72	0.26	7	22	15/16	22	1.68	43
29230-10-8	5/8x14	-10	1/2	-8	2.99	76	0.31	8	24	1-1/16	30	1.57	40
29230-10-10	5/8x14	-10	5/8	-10	3.46	88	0.38	10	30	1-1/4	30	2.00	51
29230-12-12	3/4x14	-12	3/4	-12	3.03	77	0.35	9	27	1-3/8	32	1.50	38
29230-16-16	1x11	-16	1	-16	3.50	89	0.43	11	36	1-3/4	41	1.69	43
29230-20-20	1-1/4x11	-20	1-1/4	-20	4.96	126	0.39	10	41	2-1/4	50	2.68	68
29230-24-24	1-1/2x11	-24	1-1/2	-24	5.12	130	0.51	13	46	2-1/2	50	2.72	69

Hose  
**A**

Fittings  
30 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

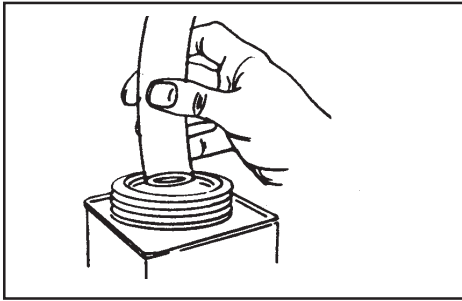
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

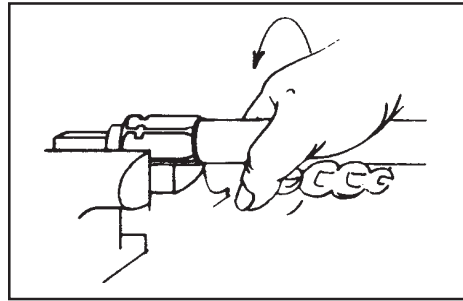
Accessories  
**F**

Appendices  
**G**

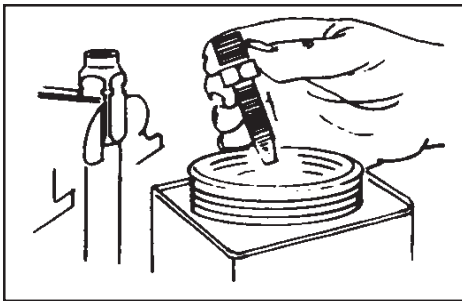
## 30 Series Hose Assembly Instructions



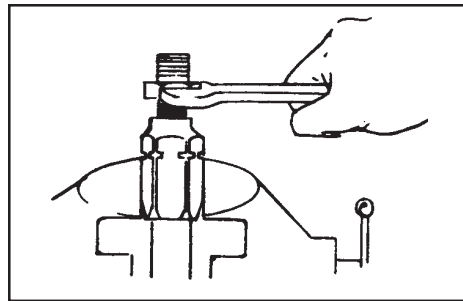
1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into Hoze-Oil or heavy oil.



2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.



3. Dip hose end of nipple into Hoze-Oil or other heavy oil up to the hex. When assembling fittings of 316 stainless steel lubricate the threads of both the socket and nipple with Dow Corning Molykote G-n or equivalent metal assembly lubricant.



4. Screw nipple assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

**Note:** Disassemble in reverse order.

**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL:**

**PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT**


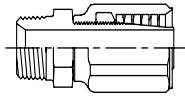
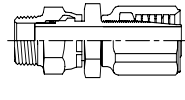

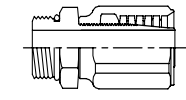

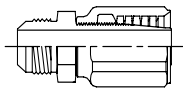
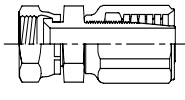
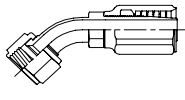
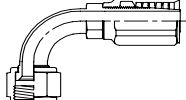
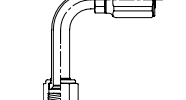
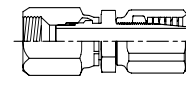

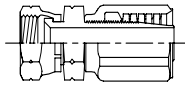

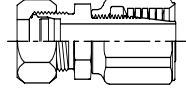
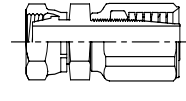

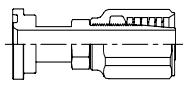
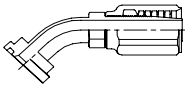
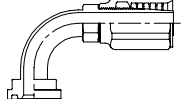

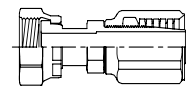
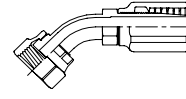
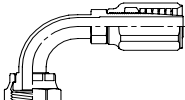
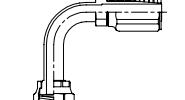

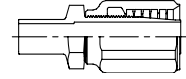
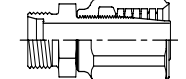
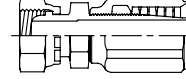
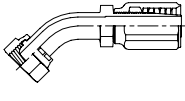
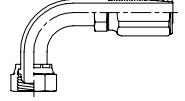

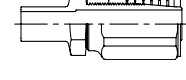
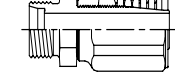

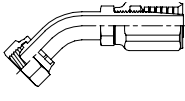
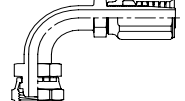
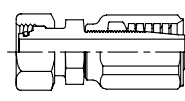

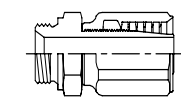
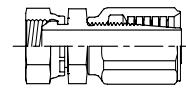

**PHONE: 216 / 943-5700**

**FAX: 216 / 943-3129**

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Hose <b>A</b>
Fittings 30 Series <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
Hose Assembly Equipment <b>D</b>
Adapters <b>E</b>
Accessories <b>F</b>
Appendices <b>G</b>



 <b>NPTF Pipe</b>	20142 B-162  Male - Rigid - Straight	21342 B-162  Male - Swivel Straight	 <b>Straight Thread O-Ring</b>	20542 B-162  Male - Rigid - Straight	 <b>JIC 37°</b>
20342 B-163  Male - Rigid - Straight	20642 B-163  Female - Swivel Straight	23742 B-164  Female - Swivel 45° Elbow	23942 B-164  Female - Swivel 90° Elbow	24142 B-164  Female - Swivel 90° Elbow - Long	24842 B-165  Female - Swivel under Pressure - Straight
 <b>SAE 45°</b>	20842 B-165  Female - Swivel Straight	 <b>Flareless</b>	21142 B-165  Male - Rigid - Straight	21242 B-166  Female - Swivel Straight	 <b>Code 61 Flange</b>
21542 B-166  Straight	21742 B-166  45° Elbow	21942 B-167  90° Elbow	 <b>Seal-Lok®</b>	2JS42 B-167  Female - Swivel Straight - Long	2J742 B-167  Female - Swivel 45° Elbow
2J942 B-168  Female - Swivel 90° Elbow	2J142 B-168  Female - Swivel 90° Elbow - Long	 <b>DIN "L" Series</b>	21D42 B-168  Male - Rigid - Straight	2D042 B-169  Male - Rigid - Straight	2C342 B-169  Female - Swivel Straight
2C442 B-169  Female - Swivel 45° Elbow	2C542 B-170  Female - Swivel 90° Elbow	 <b>DIN "S" Series</b>	23D42 B-170  Male - Rigid - Straight	2D242 B-170  Male - Rigid - Straight	2C642 B-171  Female - Swivel Straight
2C742 B-171  Female - Swivel 45° Elbow	2C842 B-171  Female - Swivel 90° Elbow	2C942 B-172  Female - Swivel Straight	 <b>BSP</b>	2D942 B-172  Male - Rigid - Straight	29242 B-172  Female - Swivel Straight
 <b>Assembly Instructions</b>	42 Series Assembly Instructions B-173				

Hose  
**A**

Fittings  
42 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

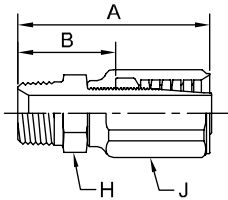
Appendices  
**G**

20142 Male NPTF Pipe - Rigid  
Straight

Hose  
**A**

Fittings  
42 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**



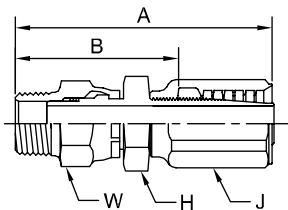
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	20142-2-3	1/8x27	-2	3/16	-3	2.09	53	1/2	5/8	1.31
20142-2-4	1/8x27	-2	1/4	-4	2.17	55	9/16	11/16	1.25	32
20142-4-3	1/4x18	-4	3/16	-3	2.28	58	9/16	5/8	1.50	38
20142-4-4	1/4x18	-4	1/4	-4	2.36	60	9/16	11/16	1.44	37
20142-4-5	1/4x18	-4	5/16	-5	2.39	61	9/16	13/16	1.44	37
20142-4-6	1/4x18	-4	3/8	-6	2.60	66	11/16	7/8	1.45	37
20142-6-4	3/8x18	-6	1/4	-4	2.36	60	3/4	11/16	1.44	37
20142-6-6	3/8x18	-6	3/8	-6	2.60	66	3/4	7/8	1.45	37
20142-6-8	3/8x18	-6	1/2	-8	2.83	72	7/8	1	1.50	38
20142-8-6	1/2x14	-8	3/8	-6	2.79	71	7/8	7/8	1.64	42
20142-8-8	1/2x14	-8	1/2	-8	3.02	77	7/8	1	1.69	43
20142-8-10	1/2x14	-8	5/8	-10	3.29	84	15/16	1-1/8	1.87	47
20142-12-8	3/4x14	-12	1/2	-8	3.08	78	1-1/8	1	1.75	44
20142-12-12	3/4x14	-12	3/4	-12	3.23	82	1-1/8	1-3/8	1.75	44
20142-12-16	3/4x14	-12	1	-16	3.42	87	1-3/8	1-5/8	1.88	48
20142-16-16	1x11-1/2	-16	1	-16	3.61	92	1-3/8	1-5/8	2.07	53

21342 Male NPTF Pipe - Swivel  
Straight

Note: O-Ring not compatible with Phosphate Ester fluids.

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**



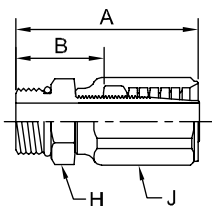
#	Thread		Hose		A		H	J	W	B	
	inch		inch		inch	mm	inch	inch	inch	inch	mm
	21342-4-4	1/4x18	-4	1/4	-4	3.40	86	9/16	11/16	5/8	2.48
21342-6-6	3/8x18	-6	3/8	-6	3.69	94	7/8	7/8	3/4	2.54	65
21342-8-8	1/2x14	-8	1/2	-8	4.11	104	1	1	7/8	2.78	71
21342-12-12	3/4x14	-12	3/4	-12	4.33	110	1-3/8	1-3/8	1-1/4	2.85	72
21342-16-16	1x11-1/2	-16	1	-16	4.80	122	1-1/2	1-5/8	1-1/2	3.26	83

20542 Male SAE Straight Thread with  
O-Ring - Rigid - Straight

Note: O-Ring not compatible with Phosphate Ester fluids.

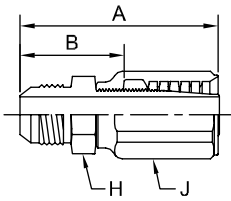
Accessories  
**F**

Appendices  
**G**



#	Thread		Hose		A		H	J	B		
	inch		inch		inch	mm	inch	inch	inch	mm	
	20542-4-4	1/4	7/16x20	-4	1/4	-4	2.20	56	9/16	11/16	1.28
20542-6-4	3/8	9/16x18	-6	1/4	-4	2.23	57	11/16	11/16	1.31	33
20542-6-6	3/8	9/16x18	-6	3/8	-6	2.47	63	11/16	7/8	1.32	34
20542-8-6	1/2	3/4x16	-8	3/8	-6	2.55	65	7/8	7/8	1.40	36
20542-8-8	1/2	3/4x16	-8	1/2	-8	2.78	71	7/8	1	1.45	37
20542-10-8	5/8	7/8x14	-10	1/2	-8	2.84	72	1	1	1.51	38
20542-12-8	3/4	1-1/16x12	-12	1/2	-8	3.00	76	1-1/4	1	1.67	42
20542-12-12	3/4	1-1/16x12	-12	3/4	-12	3.15	80	1-1/4	1-3/8	1.67	42

**20342 Male JIC 37° - Rigid - Straight**

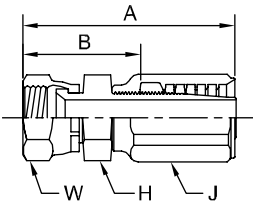


#	Thread			Hose		A		H	J	B	
	inch			inch		inch	mm	inch	inch	inch	mm
20342-4-4	1/4	7/16x20	-4	1/4	-4	2.35	60	9/16	11/16	1.43	36
20342-5-4	5/16	1/2x20	-5	1/4	-4	2.35	60	9/16	11/16	1.43	36
20342-6-4	3/8	9/16x18	-6	1/4	-4	2.36	60	5/8	11/16	1.44	36
20342-6-5	3/8	9/16x18	-6	5/16	-5	2.39	61	5/8	13/16	1.43	36
20342-6-6	3/8	9/16x18	-6	3/8	-6	2.60	66	3/4	7/8	1.45	37
20342-8-6	1/2	3/4x16	-8	3/8	-6	2.70	69	13/16	7/8	1.55	39
20342-8-8	1/2	3/4x16	-8	1/2	-8	2.93	74	7/8	1	1.60	41
20342-10-8	5/8	7/8x14	-10	1/2	-8	3.03	77	15/16	1	1.70	43
20342-10-10	5/8	7/8x14	-10	5/8	-10	3.24	82	15/16	1-1/8	1.82	46
20342-12-12	3/4	1-1/16x12	-12	3/4	-12	3.34	85	1-1/8	1-3/8	1.86	47
20342-14-12	7/8	1-3/16x12	-14	3/4	-12	3.37	86	1-1/4	1-3/8	1.89	48
20342-16-16	1	1-5/16x12	-16	1	-16	3.58	91	1-3/8	1-5/8	2.04	52

**20642 Female JIC 37° - Swivel Straight**

~ These 20642 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The -6 SAE (45°) swivel fitting is shown under part number 20842.

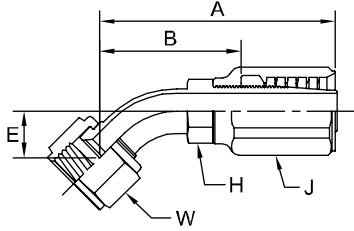
Note: "C" - Stainless Steel Fitting.



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
20642-4-3~	1/4	7/16x20	-4	3/16	-3	2.34	59	9/16	5/8	9/16	1.56	40
20642-4-4~	1/4	7/16x20	-4	1/4	-4	2.43	62	9/16	11/16	9/16	1.51	38
20642-4-4C~	1/4	7/16x20	-4	1/4	-4	2.43	62	9/16	11/16	9/16	1.51	38
20642-5-4~	5/16	1/2x20	-5	1/4	-4	2.50	64	5/8	11/16	5/8	1.58	40
20642-5-5~	5/16	1/2x20	-5	5/16	-5	2.53	64	5/8	13/16	5/8	1.58	40
20642-6-4	3/8	9/16x18	-6	1/4	-4	2.52	64	11/16	11/16	11/16	1.60	41
20642-6-4C	3/8	9/16x18	-6	1/4	-4	2.52	64	11/16	11/16	11/16	1.62	41
20642-6-5	3/8	9/16x18	-6	5/16	-5	2.55	65	11/16	13/16	11/16	1.60	41
20642-6-6	3/8	9/16x18	-6	3/8	-6	2.76	70	11/16	7/8	11/16	1.61	41
20642-6-6C	3/8	9/16x18	-6	3/8	-6	2.75	70	11/16	7/8	11/16	1.60	41
20642-8-6~	1/2	3/4x16	-8	3/8	-6	2.88	73	7/8	7/8	7/8	1.73	44
20642-8-6C~	1/2	3/4x16	-8	3/8	-6	2.87	73	7/8	7/8	7/8	1.72	44
20642-8-8~	1/2	3/4x16	-8	1/2	-8	3.11	79	7/8	1	7/8	1.78	45
20642-8-8C~	1/2	3/4x16	-8	1/2	-8	3.10	79	7/8	1	7/8	1.77	45
20642-10-8~	5/8	7/8x14	-10	1/2	-8	3.21	82	1	1	1	1.88	48
20642-10-8C~	5/8	7/8x14	-10	1/2	-8	3.20	81	1	1	1	1.88	48
20642-10-10	5/8	7/8x14	-10	5/8	-10	3.49	89	1	1-1/8	1	2.07	53
20642-10-12	5/8	7/8x14	-10	3/4	-12	3.43	87	1-1/8	1-3/8	1	1.95	50
20642-12-8	3/4	1-1/16x12	-12	1/2	-8	3.38	86	1-1/4	1	1-1/4	2.05	52
20642-12-10	3/4	1-1/16x12	-12	5/8	-10	3.59	91	1-1/4	1-1/8	1-1/4	2.17	55
20642-12-12	3/4	1-1/16x12	-12	3/4	-12	3.53	90	1-1/4	1-3/8	1-1/4	2.05	52
20642-14-12	7/8	1-3/16x12	-14	3/4	-12	3.53	90	1-3/8	1-3/8	1-3/8	2.05	52
20642-16-12	1	1-5/16x12	-16	3/4	-12	3.62	92	1-1/2	1-3/8	1-1/2	2.14	54
20642-16-16	1	1-5/16x12	-16	1	-16	3.81	97	1-1/2	1-5/8	1-1/2	2.27	58
20642-20-16	1-1/4	1-5/8x12	-20	1	-16	4.04	103	2	1-5/8	2	2.50	64

**23742 Female JIC 37° - Swivel  
45° Elbow - Short Drop**

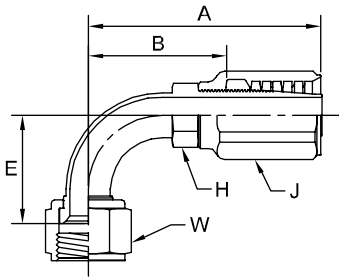
~ These 23742 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configurations only.



#	Thread			Hose		A		E		H	J	W	B	
	inch			inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
23742-4-4~	1/4	7/16x20	-4	1/4	-4	2.68	68	0.33	8	7/16	11/16	9/16	1.76	45
23742-6-6	3/8	9/16x18	-6	3/8	-6	3.03	77	0.39	10	9/16	7/8	11/16	1.88	48
23742-8-8~	1/2	3/4x16	-8	1/2	-8	3.46	88	0.55	14	11/16	1	7/8	2.13	54
23742-10-8~	5/8	7/8x14	-10	1/2	-8	3.52	89	0.65	17	13/16	1	1	2.19	56
23742-10-10~	5/8	7/8x14	-10	5/8	-10	3.72	94	0.65	17	7/8	1-1/4	1	2.39	61
23742-12-12	3/4	1-1/16x12	-12	3/4	-12	3.96	101	0.79	20	15/16	1-3/8	1-1/4	2.48	63
23742-16-16	1	1-5/16x12	-16	1	-16	4.38	111	0.90	23	1-1/4	1-5/8	1-1/2	2.84	72

**23942 Female JIC 37° - Swivel  
90° Elbow - Short Drop**

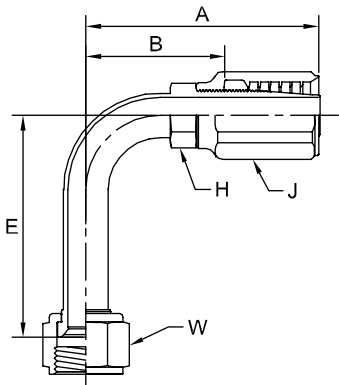
~ These 23942 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configurations only.



#	Thread			Hose		A		E		H	J	W	B	
	inch			inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
23942-4-4~	1/4	7/16x20	-4	1/4	-4	2.50	64	0.83	21	7/16	11/16	9/16	1.58	40
23942-6-6	3/8	9/16x18	-6	3/8	-6	2.93	74	0.85	22	9/16	7/8	11/16	1.78	45
23942-8-6~	1/2	3/4x16	-8	3/8	-6	3.06	78	1.09	28	11/16	7/8	7/8	1.91	49
23942-8-8~	1/2	3/4x16	-8	1/2	-8	3.22	82	1.09	28	11/16	1	7/8	1.90	48
23942-10-8~	5/8	7/8x14	-10	1/2	-8	3.37	86	1.24	31	13/16	1	1	2.04	52
23942-10-10~	5/8	7/8x14	-10	5/8	-10	3.58	91	1.24	31	7/8	1-1/4	1	2.16	55
23942-12-12	3/4	1-1/16x12	-12	3/4	-12	3.89	99	1.81	46	15/16	1-3/8	1-1/4	2.41	61
23942-16-16	1	1-5/16x12	-16	1	-16	4.35	110	2.14	54	1-1/4	1-5/8	1-1/2	2.81	71

**24142 Female JIC 37° - Swivel  
90° Elbow - Long Drop**

~ These 24142 fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configurations only.



#	Thread			Hose		A		E		H	J	W	B	
	inch			inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
24142-4-4~	1/4	7/16x20	-4	1/4	-4	2.67	68	1.80	46	7/16	11/16	9/16	1.75	44
24142-6-6	3/8	9/16x18	-6	3/8	-6	2.92	74	2.18	55	9/16	7/8	11/16	1.77	45
24142-8-8~	1/2	3/4x16	-8	1/2	-8	3.30	84	2.43	62	11/16	1	7/8	1.97	50
24142-10-8~	5/8	7/8x14	-10	1/2	-8	3.44	87	2.57	65	13/16	1	1	2.11	54
24142-10-10~	5/8	7/8x14	-10	5/8	-10	3.65	93	2.57	65	7/8	1-1/4	1	2.23	57
24142-12-12	3/4	1-1/16x12	-12	3/4	-12	3.78	96	3.73	95	15/16	1-3/8	1-1/4	2.30	58
24142-16-16	1	1-5/16x12	-16	1	-16	4.20	107	4.33	110	1-1/4	1-5/8	1-1/2	2.66	68

Hose  
**A**

Fittings  
42 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

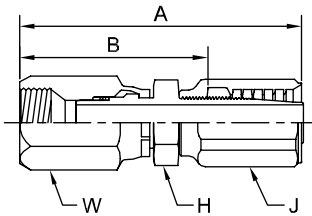
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

### 24842 Female JIC 37° - Swivel under Pressure - Straight

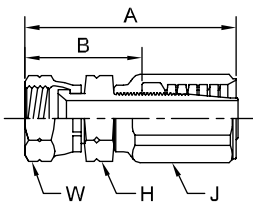
Note: The 24842 fitting allows minor movement under pressure to relieve stress on hose but is not recommended for continuous or extensive swiveling.  
Note: O-ring not compatible with Phosphate Ester fluids.



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
	Part Number											
24842-6-4	3/8	9/16x18	-6	1/4	-4	3.70	94	5/8	11/16	3/4	2.78	71
24842-8-6	1/2	3/4x16	-8	3/8	-6	4.01	102	7/8	7/8	7/8	2.86	73
24842-10-8	5/8	7/8x14	-10	1/2	-8	4.43	113	1	1	1	3.10	79
24842-14-12	7/8	1-3/16x12	-14	3/4	-12	4.76	121	1-3/8	1-3/8	1-3/8	3.28	83
24842-16-16	1	1-5/16x12	-16	1	-16	5.07	129	1-1/2	1-5/8	1-1/2	3.53	90

### 20842 Female SAE 45° - Swivel Straight

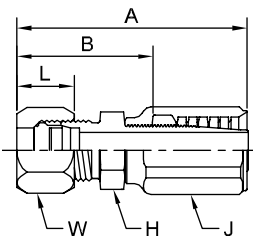
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
	Part Number											
20842-6-6	3/8	5/8x18	-6	3/8	-6	2.82	72	3/4	7/8	3/4	1.67	42

### 21142 Male Ferrulok Flareless - Rigid Straight (24° Cone with Nut and Ferrule)

Note: The Parker Ferrul-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on the job repairs. See Ferrul-Fix Installation instructions in Section G.

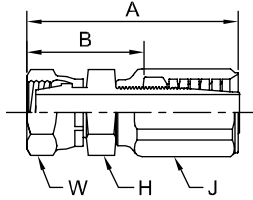


#	Thread			Hose		A		H	J	W	B	
	inch			inch		inch	mm	inch	inch	inch	inch	mm
	Part Number											
21142-4-4	1/4	7/16x20	-4	1/4	-4	2.63	67	9/16	11/16	9/16	1.72	44
21142-4-6	1/4	7/16x20	-4	3/8	-6	2.87	73	3/4	7/8	9/16	1.72	44
21142-6-6	3/8	9/16x18	-6	3/8	-6	3.00	76	3/4	7/8	11/16	1.84	47
21142-8-6	1/2	3/4x16	-8	3/8	-6	3.14	80	7/8	7/8	7/8	2.00	51
21142-8-8	1/2	3/4x16	-8	1/2	-8	3.35	85	7/8	1	7/8	2.02	51
21142-10-8	5/8	7/8x14	-10	1/2	-8	3.42	87	15/16	1	1	2.09	53
21142-12-12	3/4	1-1/16x12	-12	3/4	-12	3.78	96	1-1/8	1-3/8	1-1/4	2.30	58
21142-16-16	1	1-5/16x12	-16	1	-16	4.03	102	1-3/8	1-5/8	1-1/2	2.49	63



**21242 Female Ferulok Flareless  
Swivel - Straight (24° Cone)**

Hose  
**A**



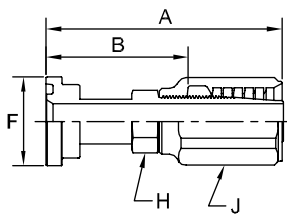
# Part Number	Thread			Hose		A		H	J	W	B	
	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
21242-4-4	1/4	7/16x20	-4	1/4	-4	2.60	66	9/16	11/16	9/16	1.68	43
21242-6-6	3/8	9/16x18	-6	3/8	-6	2.96	75	11/16	7/8	11/16	1.81	46
21242-8-6	1/2	3/4x16	-8	3/8	-6	3.18	81	7/8	7/8	7/8	2.03	52
21242-8-8	1/2	3/4x16	-8	1/2	-8	3.35	85	7/8	1	7/8	2.02	51
21242-10-8	5/8	7/8x14	-10	1/2	-8	3.54	90	1	1	1	2.21	56
21242-12-12	3/4	1-1/16x12	-12	3/4	-12	3.89	99	1-1/4	1-3/8	1-1/4	2.41	61
21242-16-16	1	1-5/16x12	-16	1	-16	4.11	104	1-1/2	1-5/8	1-1/2	2.57	65

Fittings  
42 Series  
**B**

**21542 SAE Code 61 Flange Head  
Straight - ISO 12151-3 - S - L**

Note: Flange Kits and O-Rings are listed in Section F.

Parkrimp  
Crimping  
Equipment  
**C**



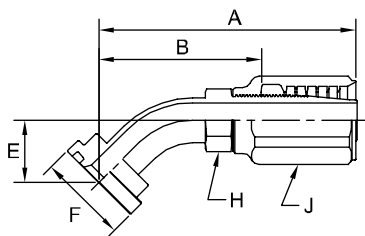
# Part Number	Flange		Hose		A		F	H	J	B	
	inch	inch	inch	inch	inch	mm	inch	inch	inch	inch	mm
21542-8-8	1/2	-8	1/2	-8	3.93	100	1-3/16	11/16	1	2.60	66
21542-12-12	3/4	-12	3/4	-12	3.94	100	1-1/2	15/16	1-3/8	2.46	62
21542-16-12	1	-16	3/4	-12	3.94	100	1-3/4	15/16	1-3/8	2.46	62
21542-16-16	1	-16	1	-16	4.17	106	1-3/4	1-1/4	1-5/8	2.63	67
21542-20-12	1-1/4	-20	3/4	-12	3.94	100	2	15/16	1-3/8	2.46	62
21542-20-16	1-1/4	-20	1	-16	4.17	106	2	1-1/4	1-5/8	2.63	67

Hose  
Assembly  
Equipment  
**D**

**21742 SAE Code 61 Flange Head  
45° Elbow - ISO 12151-3 - E45S - L  
(1 Piece: ISO 12151-3 - E45M - L)**

Note: Flange Kits and O-Rings are listed in Section F.

Adapters  
**E**



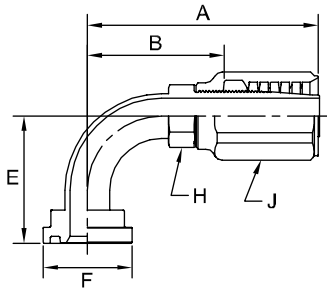
# Part Number	Flange		Hose		A		E	F	H	J	B		
	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm	
21742-12-8	3/4	-12	1/2	-8	3.93	100	0.85	22	1-1/2	11/16	1	2.60	66
21742-12-12	3/4	-12	3/4	-12	4.02	102	0.99	25	1-1/2	15/16	1-3/8	2.54	65
21742-16-12	1	-16	3/4	-12	4.02	102	0.99	25	1-3/4	15/16	1-3/8	2.54	65
21742-16-16	1	-16	1	-16	4.37	111	1.06	27	1-3/4	1-1/4	1-5/8	2.83	72
21742-20-16	1-1/4	-20	1	-16	4.39	112	1.06	27	2	1-1/4	1-5/8	2.85	72

Accessories  
**F**

Appendices  
**G**

**21942 SAE Code 61 Flange Head  
90° Elbow - ISO 12151-3 - E90S - L  
(1 Piece: ISO 12151-3 - E90M - L)**

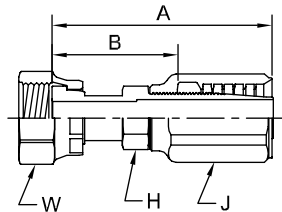
Note: Flange Kits and O-Rings are listed in Section F.



#	Flange		Hose		A		E		F		H		J		B	
	Part Number		inch		inch mm		inch mm		inch		inch		inch		inch mm	
21942-8-8	1/2	-8	1/2	-8	3.28	83	1.62	41	1-3/16	11/16	1	1.95	50			
21942-12-8	3/4	-12	1/2	-8	3.27	83	1.69	43	1-1/2	11/16	1	1.94	49			
21942-12-12	3/4	-12	3/4	-12	3.74	95	2.10	53	1-1/2	15/16	1-3/8	2.26	57			
21942-16-12	1	-16	3/4	-12	3.74	95	2.10	53	1-3/4	15/16	1-3/8	2.26	57			
21942-16-16	1	-16	1	-16	4.2	107	2.37	60	1-3/4	1-1/4	1-5/8	2.66	68			
21942-20-12	1-1/4	-20	3/4	-12	3.74	95	2.10	53	2	15/16	1-3/8	2.26	57			
21942-20-16	1-1/4	-20	1	-16	4.2	107	2.37	60	2	1-1/4	1-5/8	2.66	68			

**2JS42 Female Seal-Lok® - Swivel  
Straight - Long - ISO 12151-1 - SWSB**

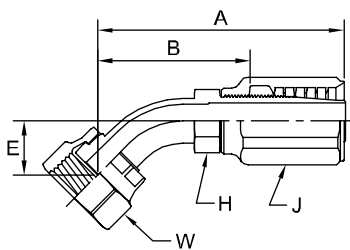
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		H		J		W		B	
	Part Number		inch		inch mm		inch		inch		inch		inch mm	
2JS42-4-4	1/4	9/16-18	-4	1/4	-4	2.60	66	9/16	11/16	11/16	1.68	43		
2JS42-6-6	3/8	11/16x16	-6	3/8	-6	2.91	74	9/16	7/8	13/16	1.76	45		
2JS42-8-8	1/2	13/16x16	-8	1/2	-8	3.23	82	11/16	1	15/16	1.90	48		
2JS42-10-10	5/8	1x14	-10	5/8	-10	3.54	90	7/8	1-1/8	1-1/8	2.12	54		
2JS42-12-12	3/4	1-3/16x12	-12	3/4	-12	3.68	93	15/16	1-3/8	1-3/8	2.20	56		
2JS42-16-16	1	1-7/16x12	-16	1	-16	3.90	99	1-1/4	1-5/8	1-5/8	2.36	60		

**2J742 Female Seal-Lok® - Swivel  
45° Elbow - ISO 12151-1 - SWE45**

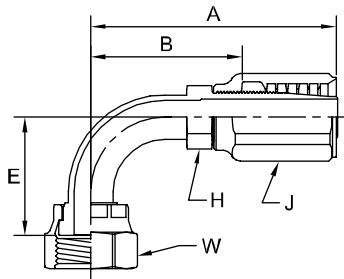
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		H		J		W		B	
	Part Number		inch		inch mm		inch mm		inch		inch		inch		inch mm	
2J742-4-4	1/4	9/16x18	-4	1/4	-4	2.83	72	0.41	10	7/16	11/16	11/16	1.91	49		
2J742-6-6	3/8	11/16x16	-6	3/8	-6	3.07	78	0.43	11	9/16	7/8	13/16	1.92	49		
2J742-8-8	1/2	13/16x16	-8	1/2	-8	3.49	89	0.59	15	11/16	1	15/16	2.16	55		
2J742-10-10	5/8	1x14	-10	5/8	-10	3.85	98	0.65	17	7/8	1-1/8	1-1/8	2.43	62		
2J742-12-12	3/4	1-3/16x12	-12	3/4	-12	3.84	98	0.81	21	15/16	1-3/8	1-3/8	2.36	60		
2J742-16-16	1	1-7/16x12	-16	1	-16	4.67	119	0.94	24	1-1/4	1-5/8	1-5/8	3.13	80		

**2J942 Female Seal-Lok® - Swivel**  
**90° Elbow - Short Drop**  
**ISO 12151-1 - SWES90**

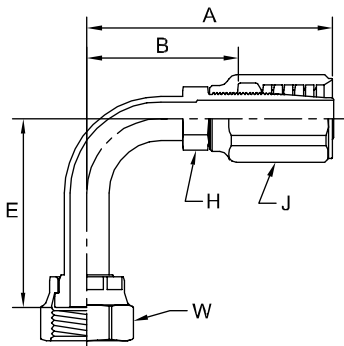
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		H		J		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	inch	mm	inch	mm
	2J942-4-4	1/4	9/16x18	-4	1/4	-4	2.81	71	0.78	20	7/16	11/16	11/16	1.89	48	
2J942-6-6	3/8	11/16x16	-6	3/8	-6	2.93	74	0.9	23	9/16	7/8	13/16	1.78	45		
2J942-8-8	1/2	13/16x16	-8	1/2	-8	3.22	82	1.15	29	11/16	1	15/16	1.89	48		
2J942-10-10	5/8	1x14	-10	5/8	-10	3.52	89	1.27	32	7/8	1-1/8	1-1/8	2.10	53		
2J942-12-12	3/4	1-3/16x12	-12	3/4	-12	3.74	95	1.85	47	15/16	1-3/8	1-3/8	2.26	57		
2J942-16-16	1	1-7/16x12	-16	1	-16	4.61	117	2.21	56	1-1/4	1-5/8	1-5/8	3.07	78		

**2J142 Female Seal-Lok® - Swivel**  
**90° Elbow - Long Drop**  
**ISO 12151-1 - SWEL90**

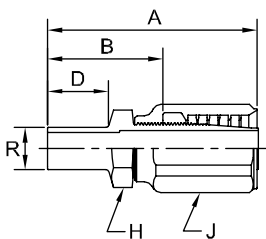
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



#	Thread		Hose		A		E		H		J		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	inch	inch	mm	inch	mm
	2J142-4-4	1/4	9/16x18	-4	1/4	-4	2.58	66	1.80	46	7/16	11/16	11/16	1.66	42	
2J142-6-6	3/8	11/16x16	-6	3/8	-6	3.03	77	2.13	54	9/16	7/8	13/16	1.88	48		
2J142-8-8	1/2	13/16x16	-8	1/2	-8	3.27	83	2.51	64	11/16	1	15/16	1.94	49		
2J142-10-10	5/8	1x14	-10	5/8	-10	3.65	93	2.76	70	7/8	1-1/8	1-1/8	2.23	57		
2J142-12-12	3/4	1-3/16x12	-12	3/4	-12	3.78	96	3.78	96	15/16	1-3/8	1-3/8	2.30	58		
2J142-16-16	1	1-7/16x12	-16	1	-16	4.20	107	4.50	114	1-1/4	1-5/8	1-5/8	2.66	68		

**21D42 Male Standpipe Metric L**  
**Rigid - Straight - ISO 8434-1**

Note: Mates with EO "L" Series fittings.



#	R		Hose		A		D		H		J		B	
	mm		inch		inch	mm	inch	mm	mm	inch	inch	inch	mm	
	21D42-6-4	6	-6	1/4	-4	2.56	65	0.87	22	14	11/16	1.57	40	
21D42-8-4	8	-8	1/4	-4	2.56	65	0.87	22	14	11/16	1.57	40		
21D42-10-5	10	-10	5/16	-5	2.68	68	0.91	23	14	13/16	1.65	42		
21D42-10-6	10	-10	3/8	-6	2.80	71	0.91	23	17	7/8	1.65	42		
21D42-12-6	12	-12	3/4	-6	2.80	71	0.91	23	17	7/8	1.65	42		
21D42-15-8	15	-15	1/2	-8	3.15	80	0.98	25	19	1	1.89	48		
21D42-18-10	18	-18	5/8	-10	3.46	88	1.02	26	24	1-1/8	2.09	53		
21D42-18-12	18	-18	3/4	-12	3.39	86	1.02	26	27	1-3/8	1.81	46		
21D42-22-12	22	-22	3/4	-12	3.46	88	1.10	28	27	1-3/8	1.89	48		
21D42-28-16	28	-28	1	-16	4.09	104	1.18	30	32	1-5/8	2.28	58		

Hose  
A

Fittings  
42 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

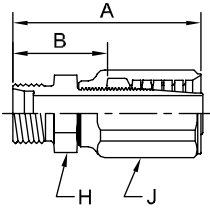
Adapters  
E

Accessories  
F

Appendices  
G

**2D042 Male Metric L - Rigid  
Straight (24° Cone) - ISO 8434-1**

Note: Mates with EO "L" Series fittings.

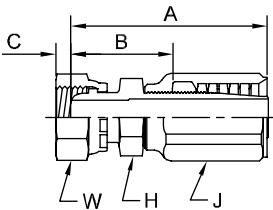


#	Thread			Hose		A		H	J	B	
	mm			inch		inch	mm	mm	inch	inch	mm
2D042-6-4	6	M12x1,5	-6	1/4	-4	2.09	53	14	11/16	1.10	28
2D042-8-4	8	M14x1,5	-8	1/4	-4	2.09	53	14	11/16	1.10	28
2D042-10-5	10	M16x1,5	-10	5/16	-5	2.20	56	17	13/16	1.18	30
2D042-10-6	10	M16x1,5	-10	3/8	-6	2.32	59	17	7/8	1.18	30
2D042-12-6	12	M18x1,5	-12	3/8	-6	2.32	59	19	7/8	1.18	30
2D042-15-8	15	M22x1,5	-15	1/2	-8	2.60	66	22	1	1.34	34
2D042-18-10	18	M26x1,5	-18	5/8	-10	2.91	74	27	1-1/8	1.54	39
2D042-18-12	18	M26x1,5	-18	3/4	-12	2.83	72	27	1-3/8	1.26	32

**2C342 Female Metric L - Swivel  
Straight (Ball Nose) - ISO 8434-1**

Note: Mates with EO "L" Series fittings.

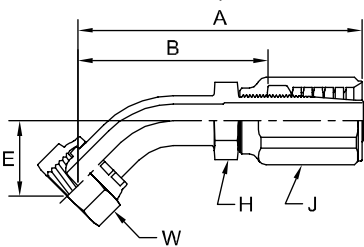
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread			Hose		A		C		H	J	W	B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm	inch	mm
2C342-6-4	6	M12x1,5	-6	1/4	-4	2.40	61	0.09	2	14	11/16	14	1.42	36
2C342-8-4	8	M14x1,5	-8	1/4	-4	2.44	62	0.11	3	14	11/16	17	1.46	37
2C342-10-5	10	M16x1,5	-10	5/16	-5	2.91	74	0.06	2	17	13/16	19	1.91	49
2C342-10-6	10	M16x1,5	-10	3/8	-6	2.83	72	0.06	2	17	7/8	19	1.74	44
2C342-12-6	12	M18x1,5	-12	3/8	-6	2.72	69	0.10	3	19	7/8	22	1.63	41
2C342-15-8	15	M22x1,5	-15	1/2	-8	3.11	79	0.17	4	22	1	27	1.81	46
2C342-18-10	18	M26x1,5	-18	5/8	-10	3.39	86	0.10	3	27	1-1/8	32	1.97	50
2C342-18-12	18	M26x1,5	-18	3/4	-12	3.31	84	0.10	3	27	1-3/8	32	1.76	45
2C342-22-12	22	M30x2	-22	3/4	-12	3.58	91	0.18	5	30	1-3/8	36	2.03	52
2C342-28-16	28	M36x2	-28	1	-16	4.25	108	0.22	6	36	1-5/8	46	2.59	66

**2C442 Female Metric L - Swivel  
45° Elbow (Ball Nose) - ISO 8434-1**

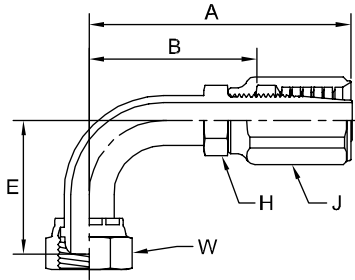
Note: Mates with EO "L" Series fittings.



#	Thread			Hose		A		E		H	J	W	B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm	inch	mm
2C442-6-4	6	M12x1,5	-6	1/4	-4	2.76	70	0.63	16	14	11/16	14	1.85	47
2C442-8-4	8	M14x1,5	-8	1/4	-4	3.03	77	0.67	17	14	11/16	17	1.93	49
2C442-10-5	10	M16x1,5	-10	5/16	-5	3.03	77	0.71	18	14	13/16	19	2.09	53
2C442-10-6	10	M16x1,5	-10	3/8	-6	3.27	83	0.71	18	17	7/8	19	2.20	56
2C442-12-6	12	M18x1,5	-12	3/8	-6	3.50	89	0.75	19	17	7/8	22	2.28	58
2C442-15-8	15	M22x1,5	-15	1/2	-8	3.94	100	0.83	21	22	1	27	2.52	64
2C442-18-10	18	M26x1,5	-18	5/8	-10	4.41	112	0.91	23	27	1-1/4	32	2.83	72
2C442-22-12	22	M30x2	-22	3/4	-12	4.69	119	1.14	29	30	1-3/8	36	3.11	79

**2C542 Female Metric L - Swivel  
90° Elbow (Ball Nose) - ISO 8434-1**

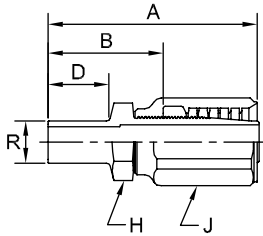
Note: Mates with EO "L" Series fittings.



#	Thread			Hose		A		E		H		J		W		B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm	inch	mm	inch	mm	
2C542-6-4	6	M12x1,5	-6	1/4	-4	2.56	65	1.18	30	14	11/16	14	1.57	40			
2C542-8-4	8	M14x1,5	-8	1/4	-4	2.64	67	1.18	30	14	11/16	17	1.57	40			
2C542-10-5	10	M16x1,5	-10	5/16	-5	2.72	69	1.38	35	14	13/16	19	1.77	45			
2C542-10-6	10	M16x1,5	-10	3/8	-6	2.95	75	1.38	35	14	7/8	19	1.85	47			
2C542-12-6	12	M18x1,5	-12	3/8	-6	3.15	80	1.42	36	17	7/8	32	1.93	49			
2C542-15-8	15	M22x1,5	-15	1/2	-8	3.50	89	1.65	42	22	1	27	2.09	53			
2C542-18-10	18	M22x1,5	-18	5/8	-10	4.21	107	1.97	50	27	1	32	2.64	67			
2C542-18-12	18	M26x1,5	-18	3/4	-12	4.33	110	1.97	50	27	1-3/8	36	2.76	70			
2C542-22-12	22	M30x2	-22	3/4	-12	4.45	113	2.52	64	30	1-3/8	36	2.87	73			
2C542-28-16	28	M36x2	-28	1	-16	4.69	119	2.64	67	32	1-5/8	46	2.95	75			

**23D42 Male Standpipe Metric S -  
Rigid - Straight - ISO 8434-1**

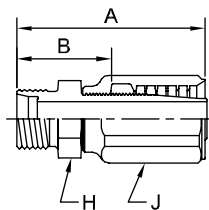
Can also be used with EO "L" Series fittings.  
Note: Mates with EO "S" Series fittings.



#	R		Hose		A		D		H		J		B	
	mm		inch		inch	mm	inch	mm	mm	inch	inch	mm	inch	mm
21D42-8-4 <sup>^^</sup>	8	-8	1/4	-4	2.56	65	0.87	22	14	11/16	1.57	40		
23D42-10-4	10	-10	1/4	-4	2.76	70	1.02	26	14	11/16	1.77	45		
23D42-12-5	12	-12	5/16	-5	2.80	71	1.02	26	14	13/16	1.81	46		
21D42-12-6 <sup>^^</sup>	12	-12	3/4	-6	2.80	71	0.91	23	17	7/8	1.65	42		
23D42-14-6	14	-14	3/8	-6	3.03	77	1.14	29	17	7/8	1.89	48		
23D42-16-8	16	-16	1/2	-8	3.31	84	1.18	30	19	1	2.05	52		
23D42-20-10	20	-20	5/8	-10	3.94	100	1.42	36	24	1-1/8	2.56	65		
23D42-20-12	20	-20	3/4	-12	3.90	99	1.42	36	27	1-3/8	2.28	58		
23D42-25-12	25	-25	3/4	-12	4.17	106	1.57	40	27	1-3/8	2.56	65		
23D42-30-16	30	-30	1	-16	4.65	118	1.73	44	32	1-5/8	2.99	76		

**2D242 Male Metric S - Rigid  
Straight (24° Cone) - ISO 8434-1**

Note: Mates with EO "S" Series fittings.



#	Thread			Hose		A		H		J		B	
	mm			inch		inch	mm	mm	inch	inch	mm	inch	mm
2D242-8-4	8	M16x1,5	-8	1/4	-4	2.24	57	19	11/16	1.26	32		
2D242-10-4	10	M18x1,5	-10	1/4	-4	2.28	58	19	11/16	1.30	33		
2D242-12-5	12	M20x1,5	-12	5/16	-5	2.36	60	22	13/16	1.34	34		
2D242-12-6	12	M20x1,5	-12	3/8	-6	2.48	63	22	7/8	1.34	34		
2D242-14-6	14	M22x1,5	-14	3/8	-6	2.52	64	22	7/8	1.38	35		
2D242-16-8	16	M24x1,5	-16	1/2	-8	2.83	72	24	1	1.57	40		
2D242-20-10	20	M30x2	-20	5/8	-10	3.23	82	30	1-1/8	1.85	47		
2D242-20-12	20	M30x2	-20	3/4	-12	3.15	80	30	1-3/8	1.57	40		
2D242-25-12	25	M36x2	-25	3/4	-12	3.31	84	36	1-3/8	1.73	44		
2D242-30-16	30	M42x2	-30	1	-16	3.78	96	46	1-5/8	1.97	50		

Hose  
A

Fittings  
42 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

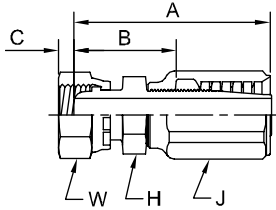
Accessories  
F

Appendices  
G

**2C642 Female Metric S - Swivel  
Straight (Ball Nose) - ISO 8434-1**

Note: Mates with EO "S" Series fittings.

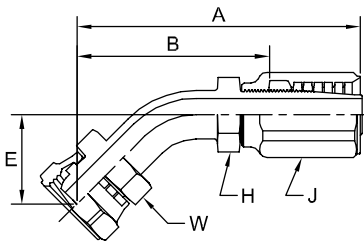
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread		Hose		A		C		H	J	W	B		
	mm	inch	inch	mm	inch	mm	mm	inch	mm	inch	mm	inch	mm	
2C642-8-4	8	M16x1,5	-8	1/4	-4	2.44	62	0.15	4	17	11/16	19	1.57	40
2C642-10-4	10	M18x1,5	-10	1/4	-4	2.60	66	0.10	3	17	11/16	22	1.57	40
2C642-12-5	12	M20x1,5	-12	5/16	-5	2.60	66	0.08	2	19	13/16	24	1.57	40
2C642-12-6	12	M20x1,5	-12	3/8	-6	2.72	69	0.08	2	19	7/8	24	1.61	41
2C642-14-6	14	M22x1,5	-14	3/8	-6	2.76	70	0.17	4	22	7/8	27	1.81	46
2C642-16-8	16	M24x1,5	-16	1/2	-8	3.07	78	0.19	5	24	1	30	1.77	45
2C642-20-10	20	M30x2	-20	5/8	-10	3.50	89	0.21	5	30	1-1/8	36	2.13	54
2C642-20-12	20	M30x2	-20	3/4	-12	3.43	87	0.21	5	30	1-3/8	40	1.85	47
2C642-25-12	25	M36x2	-25	3/4	-12	3.46	88	0.28	7	36	1-3/8	46	1.85	47
2C642-30-16	30	M42x2	-30	1	-16	4.09	104	0.37	9	41	1-5/8	50	2.28	58

**2C742 Female Metric S - Swivel  
45° Elbow (Ball Nose) - ISO 8434-1**

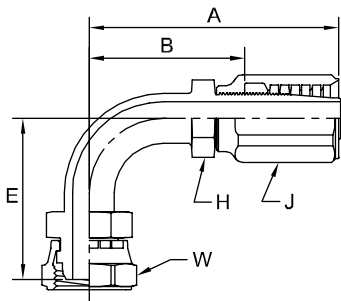
Note: Mates with EO "S" Series fittings.



#	Thread		Hose		A		E		H	J	W	B		
	mm	inch	inch	mm	inch	mm	mm	inch	mm	inch	mm	inch	mm	
2C742-10-4	10	M18x1,5	-10	1/4	-4	3.07	78	0.71	18	14	11/16	22	1.97	50
2C742-12-5	12	M20x1,5	-12	5/16	-5	3.07	78	0.75	19	14	13/16	24	2.09	53
2C742-12-6	12	M20x1,5	-12	3/8	-6	3.31	84	0.79	20	17	7/8	24	2.20	56
2C742-14-6	14	M22x1,5	-14	3/8	-6	3.58	91	0.83	21	17	7/8	27	2.36	60
2C742-16-8	16	M24x1,5	-16	1/2	-8	3.90	99	0.83	21	22	1	30	2.48	63
2C742-20-10	20	M30x2	-20	5/8	-10	4.45	113	0.98	25	27	1-1/8	36	2.91	74
2C742-25-12	25	M36x2	-25	3/4	-12	4.65	118	1.10	28	30	1-3/8	46	3.07	78
2C742-30-16	30	M42x2	-30	1	-16	4.88	124	1.10	28	32	1-5/8	50	3.15	80

**2C842 Female Metric S - Swivel  
90° Elbow (Ball Nose) - ISO 8434-1**

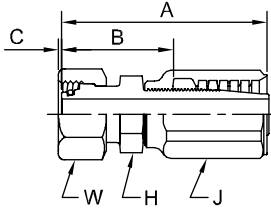
Note: Mates with EO "S" Series fittings.



#	Thread		Hose		A		E		H	J	W	B		
	mm	inch	inch	mm	inch	mm	mm	inch	mm	inch	mm	inch	mm	
2C842-10-4	10	M18x1,5	-10	1/4	-4	2.36	60	1.34	34	14	11/16	22	1.36	35
2C842-12-6	12	M20x1,5	-12	3/8	-6	2.95	75	1.50	38	14	7/8	24	1.85	47
2C842-14-6	14	M22x1,5	-14	3/8	-6	3.15	80	1.54	39	17	7/8	27	1.93	49
2C842-16-8	16	M24x1,5	-16	1/2	-8	3.50	89	1.61	41	22	1	32	2.09	53
2C842-20-10	20	M30x2	-20	5/8	-10	4.21	107	2.09	53	27	1-1/8	36	2.64	67
2C842-20-12	20	M30x2	-20	3/4	-12	4.37	111	2.28	58	27	1-3/8	36	2.76	70
2C842-25-12	25	M36x2	-25	3/4	-12	4.45	113	2.48	63	30	1-3/8	46	2.87	73
2C842-30-16	30	M42x2	-30	1	-16	4.69	119	2.48	63	32	1-5/8	50	2.95	75

**2C942 Female Metric S - Swivel Straight (24° Cone with O-Ring)**

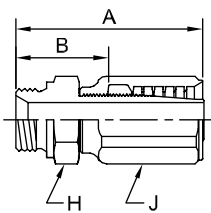
Note: Mates with EO "S" Series fittings.  
Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread			Hose		A		C		H	J	W	B	
	mm			inch	inch	inch	mm	inch	mm	mm	inch	mm	inch	mm
2C942-8-4	8	M16x1,5	-8	1/4	-4	2.44	62	0.01	0	17	11/16	19	1.57	40
2C942-10-4	10	M18x1,5	-10	1/4	-4	2.60	66	0.01	0	17	11/16	22	1.57	40
2C942-12-6	12	M20x1,5	-12	3/8	-6	2.72	69	0.03	1	19	7/8	24	1.61	41
2C942-16-8	16	M24x1,5	-16	1/2	-8	3.07	78	0.09	2	24	1	30	1.77	45
2C942-20-10	20	M30x2	-20	5/8	-10	3.50	89	0.05	1	30	1-1/8	36	2.13	54
2C942-25-12	25	M36x2	-25	3/4	-12	3.46	88	0.10	3	36	1-3/8	46	1.85	47
2C942-30-16	30	M42x2	-30	1	-16	4.09	104	0.19	5	41	1-5/8	50	2.28	58

**2D942 Male BSP Parallel Pipe - Rigid Straight (60° Cone) - ISO 228-1**

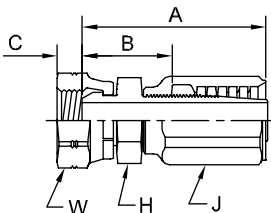
Note: When used in a port, a bonded seal must be used. See Section F.



#	Thread		Hose		A		H	J	B	
	inch		inch	inch	inch	mm	mm	inch	inch	mm
2D942-4-4	1/4x19	-4	1/4	-4	2.28	58	19	11/16	1.30	33
2D942-6-6	3/8x19	-6	3/8	-6	2.44	62	22	7/8	1.34	34
2D942-8-8	1/2x14	-8	1/2	-8	2.87	73	27	1	1.61	41
2D942-12-12	3/4x14	-12	3/4	-12	3.19	81	32	1-3/8	1.61	41
2D942-16-16	1x11	-16	1	-16	3.74	95	41	1-5/8	1.93	49

**29242 Female BSP Parallel Pipe Swivel - Straight (60° Cone) ISO 228-1**

Note: When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.



#	Thread			Hose		A		C		H	J	W	B	
	inch			inch	inch	inch	mm	inch	mm	mm	inch	mm	inch	mm
29242-4-4	1/4x19	-4	1/4	-4	2.56	65	0.22	6	14	11/16	19	1.57	40	
29242-6-6	3/8x19	-6	3/8	-6	2.68	68	0.26	7	17	7/8	22	1.57	40	
29242-8-8	1/2x14	-8	1/2	-8	3.31	84	0.28	7	22	1	27	2.01	51	
29242-10-8	5/8x14	-10	5/8	-10	3.11	79	0.37	9	24	1-1/8	30	1.81	46	
29242-10-10	5/8x14	-10	5/8	-10	3.35	85	0.37	9	24	1-1/8	30	1.93	49	
29242-12-12	3/4x14	-12	3/4	-12	3.42	87	0.35	9	27	1-3/8	32	1.87	47	
29242-16-16	1x11	-16	1	-16	4.06	103	0.44	11	36	1-5/8	41	2.40	61	

Hose  
**A**

Fittings  
42 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

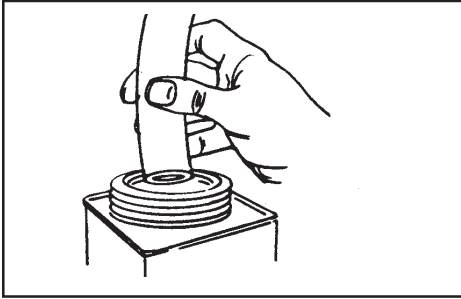
Adapters  
**E**

Accessories  
**F**

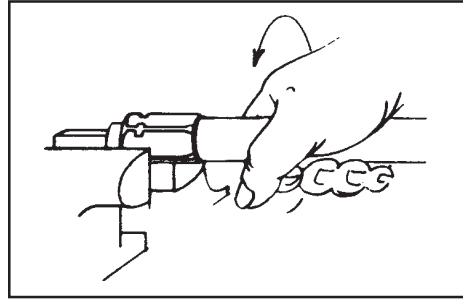
Appendices  
**G**



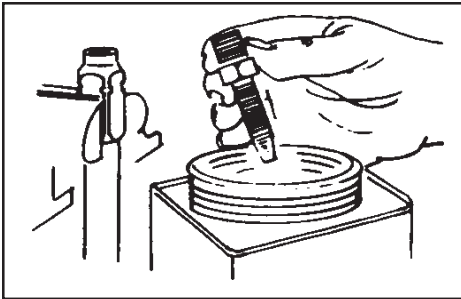
## 42 Series Hose Assembly Instructions



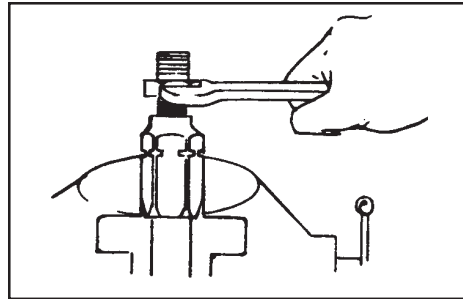
1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into Hoze-Oil or heavy oil.



2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.



3. Dip hose end of nipple into Hoze-Oil or other heavy oil up to the hex. When assembling fittings of 316 stainless steel lubricate the threads of both the socket and nipple with Dow Corning Molykote G-n or equivalent metal assembly lubricant.



4. Screw nipple assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

**Note:** Disassemble in reverse order.

**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL:**

**PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT**

**PHONE: 440 / 943-5700**

**FAX: 440 / 943-3129**




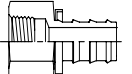





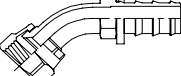



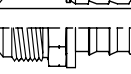

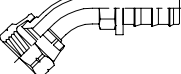


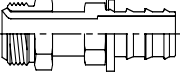
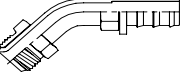




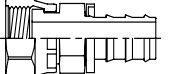
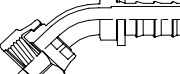
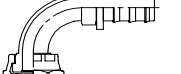
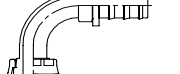








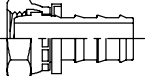
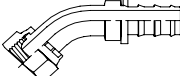
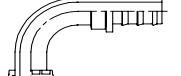





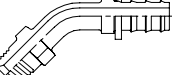


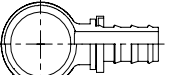
**www.parkerhose.com**

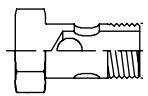



Hose	A
Fittings 42 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



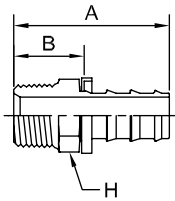
Hose <b>A</b>
Fittings 42 Series <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
Hose Assembly Equipment <b>D</b>
Adapters <b>E</b>
Accessories <b>F</b>
Appendices <b>G</b>

 <b>Male Pipe</b>	30182 B-177  <i>Male - Rigid - Straight</i>	31382 B-177  <i>Male - Swivel Straight</i>	30282 B-178  <i>Female - Rigid Straight</i>	 <b>NPSM Pipe</b>	37G82 B-178  <i>Female - Swivel Straight</i>
 <b>JIC 37°</b>	30382 B-178  <i>Male - Rigid - Straight</i>	30682 B-179  <i>Female - Swivel Straight</i>	33782 B-179  <i>Female - Swivel 45° Elbow</i>	33982 B-180  <i>Female - Swivel 90° Elbow</i>	34182 B-180  <i>Female - Swivel 90° Elbow - Long</i>
 <b>SAE 45°</b>	30482 B-180  <i>Male - Rigid - Straight</i>	30882 B-181  <i>Female - Swivel Straight</i>	37782 B-181  <i>Female - Swivel 45° Elbow</i>	37982 B-181  <i>Female - Swivel 90° Elbow</i>	 <b>Inverted Flare</b>
32882 B-182  <i>Male - Swivel Straight</i>	36782 B-182  <i>Male - Swivel 45° Elbow</i>	36982 B-182  <i>Male - Swivel 90° Elbow</i>	32982 B-182  <i>Female - Rigid Straight</i>	 <b>Seal-Lok®</b>	3J082 B-183  <i>Male - Rigid - Straight</i>
3JC82 B-183  <i>Female - Swivel Straight</i>	3J782 B-183  <i>Female - Swivel 45° Elbow</i>	3J982 B-184  <i>Female - Swivel 90° Elbow - Short</i>	3J582 B-184  <i>Female - Swivel 90° Elbow - Medium</i>	3J182 B-184  <i>Female - Swivel 90° Elbow - Long</i>	 <b>Standpipe</b>
33482 B-185  <i>Male - Rigid - Straight</i>	 <b>Union</b>	38282 B-185  <i>Hose Splicer</i>	 <b>DIN "L" Series</b>	3D082 B-185  <i>Male - Rigid - Straight</i>	31D82 B-186  <i>Male - Rigid - Straight</i>
3C382 B-186  <i>Female - Swivel Straight</i>	3C482 B-186  <i>Female - Swivel 45° Elbow</i>	3C582 B-187  <i>Female - Swivel 90° Elbow</i>	 <b>BSP</b>	39182 B-187  <i>Male - Rigid - Straight</i>	39282 B-187  <i>Female - Swivel Straight</i>
3D982 B-188  <i>Male - Rigid - Straight</i>	3B282 B-188  <i>Female - Swivel 90° Elbow</i>	3BV82 B-188  <i>Male - Rigid 45° Elbow</i>	3BZ82 B-188  <i>Male - Rigid 90° Elbow</i>	 <b>Banjo</b>	34982 B-189  <i>Straight</i>

<p>Hose <b>A</b></p>	<p>AM      B-189</p>  <p style="text-align: center;"><i>Bolt</i></p>	<p>“Push-Lok” Kits &amp; Merchandiser B-190-191</p>	 <p><b>Assembly Instructions</b></p>	<p>82 Series Assembly Instructions B-192</p>
<p>Fittings 82 Series <b>B</b></p>				
<p>Parkrimp Crimping Equipment <b>C</b></p>				
<p>Hose Assembly Equipment <b>D</b></p>				
<p>Adapters <b>E</b></p>				
<p>Accessories <b>F</b></p>				
<p>Appendices <b>G</b></p>				

### 30182 Male NPTF Pipe - Rigid Straight

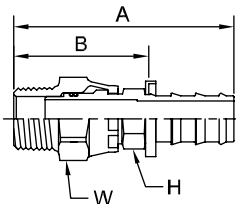
Note: "B" - Brass Fitting.  
Note: "C" - Stainless Steel Fitting.



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
30182-2-4	1/8x27	-2	1/4	-4	1.39	35	7/16	0.64	16	
30182-2-4B	1/8x27	-2	1/4	-4	1.39	35	7/16	0.64	16	
30182-2-4C	1/8x27	-2	1/4	-4	1.39	35	7/16	0.64	16	
30182-4-4	1/4x18	-4	1/4	-4	1.57	40	9/16	0.82	21	
30182-4-4B	1/4x18	-4	1/4	-4	1.57	40	9/16	0.82	21	
30182-4-4C	1/4x18	-4	1/4	-4	1.57	40	9/16	0.82	21	
30182-4-6	1/4x18	-4	3/8	-6	1.78	45	9/16	0.88	22	
30182-4-6C	1/4x18	-4	3/8	-6	1.78	45	9/16	0.88	22	
30182-4-6B	1/4x18	-4	3/8	-6	1.78	45	9/16	0.88	22	
30182-6-6	3/8x18	-6	3/8	-6	1.78	45	11/16	0.88	22	
30182-6-6B	3/8x18	-6	3/8	-6	1.78	45	11/16	0.88	22	
30182-6-6C	3/8x18	-6	3/8	-6	1.78	45	11/16	0.88	22	
30182-6-8	3/8x18	-6	1/2	-8	1.93	49	11/16	0.88	22	
30182-6-8B	3/8x18	-6	1/2	-8	1.93	49	11/16	0.88	22	
30182-8-6B	1/2x14	-8	3/8	-6	2.03	52	7/8	1.13	29	
30182-8-6C	1/2x14	-8	3/8	-6	2.03	52	7/8	1.13	29	
30182-8-8	1/2x14	-8	1/2	-8	2.18	55	7/8	1.13	29	
30182-8-8B	1/2x14	-8	1/2	-8	2.18	55	7/8	1.13	29	
30182-8-8C	1/2x14	-8	1/2	-8	2.18	55	7/8	1.13	29	
30182-12-8B	3/4x14	-12	1/2	-8	2.21	56	1-1/16	1.16	29	
30182-8-10	1/2x14	-8	5/8	-10	2.58	66	7/8	1.13	29	
30182-8-10B	1/2x14	-8	5/8	-10	2.58	66	7/8	1.13	29	
30182-8-12B	1/2x14	-8	3/4	-12	2.58	66	7/8	1.13	29	
30182-12-12	3/4x14	-12	3/4	-12	2.61	66	1-1/16	1.16	29	
30182-12-12B	3/4x14	-12	3/4	-12	2.61	66	1-1/16	1.16	29	
30182-12-12C	3/4x14	-12	3/4	-12	2.61	66	1-1/16	1.16	29	
30182-16-16B	1x11-1/2	-16	1	-16	3.06	78	1-3/8	1.61	41	

### 31382 Male NPTF Pipe - Swivel Straight

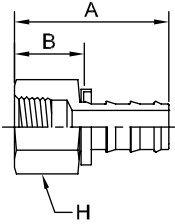
Note: O-Ring is not compatible with Phosphate Ester Fluids.



#	Thread		Hose		A		H	W	B	
	inch		inch		inch	mm	inch	inch	inch	mm
31382-4-4	1/4x18	-4	1/4	-4	1.60	41	-----	9/16	0.85	22
31382-6-6	3/8x18	-6	3/8	-6	1.79	45	-----	11/16	0.89	23
31382-8-8	1/2x14	-8	1/2	-8	2.20	56	-----	7/8	1.15	29
31382-12-12	3/4x14	-12	3/4	-12	3.70	94	7/8	1-1/4	2.25	57

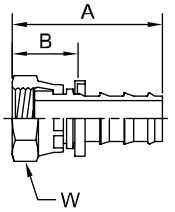
**30282 Female NPTF Pipe - Rigid Straight**

Note: "B" - Brass Fitting.



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	mm	
	Part Number									
30282-4-4	1/4x18	-4	1/4	-4	1.56	40	3/4	0.81	21	
30282-4-4B	1/4x18	-4	1/4	-4	1.56	40	3/4	0.81	21	
30282-6-6B	3/8x18	-6	3/8	-6	1.82	46	7/8	0.92	23	
30282-8-8B	1/2x14	-8	1/2	-8	2.16	55	1-1/16	1.11	28	

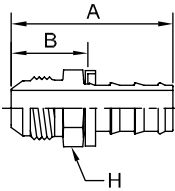
**37G82 Female NPSM Pipe Gasket Joint - Swivel - Straight**



#	Gasket	Thread		Hose		A		W		B	
		inch		inch		inch	mm	inch	inch	mm	
		Part Number									
37G82-4-4	07G-4	1/4x18	-4	1/4	-4	1.55	39	11/16	0.80	20	
37G82-4-6	07G-4	1/4x18	-4	3/8	-6	1.70	43	11/16	0.80	20	
37G82-6-6	07G-6	3/8x18	-6	3/8	-6	1.75	44	7/8	0.85	22	
37G82-8-8	07G-8	1/2x14	-8	1/2	-8	2.07	53	1	1.02	26	
37G82-8-10	07G-8	1/2x14	-8	5/8	-10	2.47	63	1	1.02	26	
37G82-12-12	07G-12	3/4x14	-12	3/4	-12	2.54	65	1-1/4	1.09	28	

**30382 Male JIC 37° - Rigid Straight**

Note: "B" - Brass Fitting.



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	mm	
	Part Number										
30382-4-4	1/4	7/16x20	-4	1/4	-4	1.56	40	1/2	0.81	21	
30382-5-4	5/16	1/2x20	-5	1/4	-4	1.59	40	9/16	0.84	21	
30382-6-6	3/8	9/16x18	-6	3/8	-6	1.78	45	5/8	0.88	22	
30382-6-6B	3/8	9/16x18	-6	3/8	-6	1.78	45	5/8	0.88	22	
30382-8-8	1/2	3/4x16	-8	1/2	-8	2.06	52	3/4	1.01	26	
30382-10-10	5/8	7/8x14	-10	5/8	-10	2.62	67	7/8	1.17	30	
30382-12-12	3/4	1-1/16x12	-12	3/4	-12	2.72	69	1-1/8	1.27	32	

Hose  
A

Fittings  
82 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

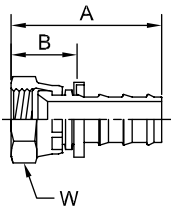
Accessories  
F

Appendices  
G



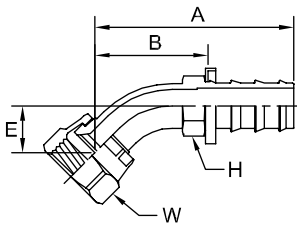
### 30682 Female JIC 37° - Swivel Straight

Note: "B" - Brass Fitting.  
Note: "C" - Stainless Steel Fitting.



#	🌀			⊙				⬡		
	Thread			Hose		A		W	B	
	inch			inch		inch	mm	inch	inch	mm
30682-4-4	1/4	7/16x20	-4	1/4	-4	1.52	39	9/16	0.77	20
30682-4-4B	1/4	7/16x20	-4	1/4	-4	1.52	39	9/16	0.77	20
30682-4-4C	1/4	7/16x20	-4	1/4	-4	1.52	39	9/16	0.77	20
30682-5-4	5/16	1/2x20	-5	1/4	-4	1.58	40	5/8	0.83	21
30682-5-4B	5/16	1/2x20	-5	1/4	-4	1.58	40	5/8	0.83	21
30682-6-4B	3/8	9/16x18	-6	1/4	-4	1.61	41	11/16	0.86	22
30682-6-6	3/8	9/16x18	-6	3/8	-6	1.75	44	11/16	0.85	22
30682-6-6B	3/8	9/16x18	-6	3/8	-6	1.75	44	11/16	0.85	22
30682-6-6C	3/8	9/16x18	-6	3/8	-6	1.75	44	11/16	0.85	22
30682-6-8	3/8	9/16x18	-6	1/2	-8	1.9	48	11/16	0.85	22
30682-6-8B	3/8	9/16x18	-6	1/2	-8	1.9	48	11/16	0.85	22
30682-8-6B	1/2	3/4x16	-8	3/8	-6	1.87	47	7/8	0.97	25
30682-8-8	1/2	3/4x16	-8	1/2	-8	2.02	51	7/8	0.97	25
30682-8-8B	1/2	3/4x16	-8	1/2	-8	2.02	51	7/8	0.97	25
30682-8-8C	1/2	3/4x16	-8	1/2	-8	2.02	51	7/8	0.97	25
30682-10-8B	5/8	7/8x14	-10	1/2	-8	2.14	54	1	1.09	28
30682-10-10	5/8	7/8x14	-10	5/8	-10	2.54	65	1	1.09	28
30682-10-10B	5/8	7/8x14	-10	5/8	-10	2.54	65	1	1.09	28
30682-10-10C	5/8	7/8x14	-10	5/8	-10	2.54	65	1	1.09	28
30682-12-12	3/4	1-1/16x12	-12	3/4	-12	2.65	67	1-1/4	1.20	30
30682-12-12B	3/4	1-1/16x12	-12	3/4	-12	2.65	67	1-1/4	1.20	30
30682-12-12C	3/4	1-1/16x12	-12	3/4	-12	2.65	67	1-1/4	1.20	30
30682-14-12B	7/8	1-3/16x12	-14	3/4	-12	2.69	68	1-3/8	1.24	31
30682-16-16B	1	1-5/16x12	-16	1	-16	2.77	70	1-3/8	1.32	34

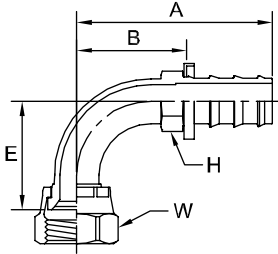
### 33782 Female JIC 37° - Swivel 45° Elbow - Short Drop



#	🌀			⊙				⬡	⬡				
	Thread			Hose		A		E	H	W	B		
	inch			inch		inch	mm	inch	mm	inch	mm		
33782-4-4	1/4	7/16x20	-4	1/4	-4	1.74	44	0.39	10	7/16	9/16	0.99	25
33782-6-6	3/8	9/16x18	-6	3/8	-6	1.99	51	0.43	11	1/2	11/16	1.09	28
33782-8-8	1/2	3/4x16	-8	1/2	-8	2.58	66	0.55	14	5/8	7/8	1.53	39

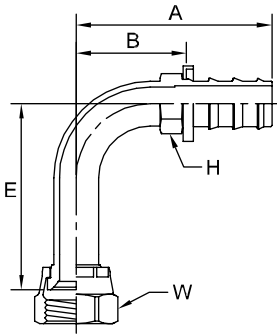
A Hose  
 B Fittings 82 Series  
 C Parkrimp Crimping Equipment  
 D Hose Assembly Equipment  
 E Adapters  
 F Accessories  
 G Appendices

**33982 Female JIC 37° - Swivel  
90° Elbow - Short Drop**



#	Thread			Hose		A		E		H	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
33982-4-4	1/4	7/16x20	-4	1/4	-4	1.55	39	0.83	21	-----	9/16	0.80	20
33982-6-6	3/8	9/16x18	-6	3/8	-6	1.85	47	0.91	23	-----	11/16	0.95	24
33982-8-8	1/2	3/4x16	-8	1/2	-8	2.33	59	1.09	28	5/8	7/8	1.28	33
33982-12-12	3/4	1-1/16x12	-12	3/4	-12	3.26	83	1.81	46	7/8	1-1/4	1.81	46

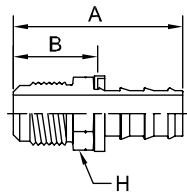
**34182 Female JIC 37° - Swivel  
90° Elbow - Long Drop**



#	Thread			Hose		A		E		H	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
34182-4-4	1/4	7/16x20	-4	1/4	-4	1.79	45	1.80	46	7/16	9/16	1.04	26
34182-6-6	3/8	9/16x18	-6	3/8	-6	1.97	50	2.18	55	1/2	11/16	1.07	27

**30482 Male SAE 45° - Rigid  
Straight**

Note: "B" - Brass Fitting.  
Note: Notch in nut for SAE 45° flare



#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	inch	inch	mm
30482-4-4B	1/4	7/16x20	-4	1/4	-4	1.51	38	7/16	0.76	19
30482-5-4B	5/16	1/2x20	-5	1/4	-4	1.61	41	9/16	0.86	22
30482-6-6B	3/8	5/8x18	-6	3/8	-6	1.84	47	5/8	0.94	24
30482-8-8B	1/2	3/4x16	-8	1/2	-8	2.15	55	3/4	1.10	28

Hose  
A

Fittings  
82 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

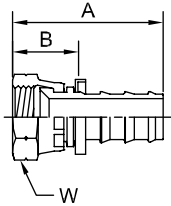
Adapters  
E

Accessories  
F

Appendices  
G

### 30882 Female SAE 45° - Swivel Straight

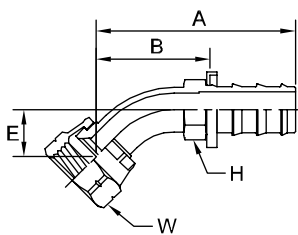
Note: "B" - Brass Fitting.  
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	inch	inch	mm
30882-4-4	1/4	7/16x20	-4	1/4	-4	1.52	39	9/16	0.77	20	
30882-4-4B	1/4	7/16x20	-4	1/4	-4	1.52	39	9/16	0.76	19	
30882-5-4	5/16	1/2x20	-5	1/4	-4	1.58	40	5/8	0.83	21	
30882-5-4B	5/16	1/2x20	-5	1/4	-4	1.58	40	5/8	0.83	21	
30882-6-6	3/8	5/8x18	-6	3/8	-6	1.81	46	3/4	0.91	23	
30882-6-6B	3/8	5/8x18	-6	3/8	-6	1.81	46	3/4	0.91	23	
30882-8-6B	1/2	3/4x16	-8	3/8	-6	1.87	47	7/8	0.97	25	
30882-8-8	1/2	3/4x16	-8	1/2	-8	2.02	51	7/8	0.97	25	
30882-8-8B	1/2	3/4x16	-8	1/2	-8	2.02	51	7/8	0.97	25	
30882-10-8B	5/8	7/8x14	-10	1/2	-8	2.14	54	1	1.09	28	
30882-10-10	5/8	7/8x14	-10	5/8	-10	2.54	65	1	1.09	28	
30882-10-10B	5/8	7/8x14	-10	5/8	-10	2.54	65	1	1.09	28	
30882-12-12	3/4	1-1/16x14	-12	3/4	-12	2.65	67	1-1/4	1.20	30	
30882-12-12B	3/4	1-1/16x14	-12	3/4	-12	2.65	67	1-1/4	1.19	30	

### 37782 Female SAE 45° - Swivel 45° Elbow

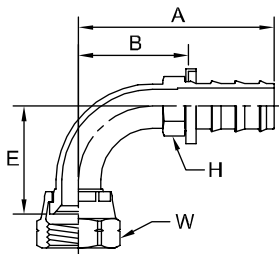
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		E		H		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	inch	mm
37782-4-4	1/4	7/16x20	-4	1/4	-4	1.79	45	0.33	8	7/16	9/16	1.04	26		
37782-6-6	3/8	5/8x18	-6	3/8	-6	2.08	53	0.39	10	1/2	3/4	1.18	30		
37782-8-8	1/2	3/4x16	-8	1/2	-8	2.58	66	0.55	14	5/8	7/8	1.53	39		

### 37982 Female SAE 45° Swivel - 90° Elbow

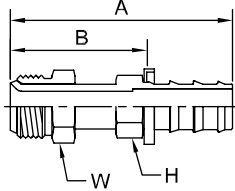
Note: Notch in nut for SAE 45° flare.



#	Thread			Hose		A		E		H		W		B	
	inch	inch	inch	inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	inch	mm
37982-4-4	1/4	7/16x20	-4	1/4	-4	1.60	41	0.83	21	7/16	9/16	0.85	22		
37982-6-6	3/8	5/8x18	-6	3/8	-6	1.98	50	0.85	22	1/2	3/4	1.08	27		
37982-8-8	1/2	3/4x16	-8	1/2	-8	2.33	59	1.09	28	5/8	7/8	1.28	33		

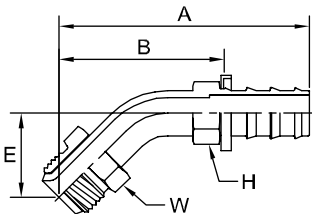


**32882 Male Inverted SAE 45° - Swivel  
Straight**



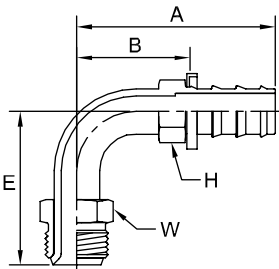
#	Thread			Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number										
32882-3-4	3/16	3/8x24	-3	1/4	-4	2.15	55	3/8	3/8	1.40	36
32882-4-4	1/4	7/16x24	-4	1/4	-4	2.15	55	7/16	7/16	1.40	36
32882-5-4	5/16	1/2x20	-5	1/4	-4	2.31	59	7/16	1/2	1.56	40
32882-6-6	3/8	5/8x18	-6	3/8	-6	2.58	66	1/2	5/8	1.68	43
32882-8-8	1/2	3/4x18	-8	1/2	-8	2.82	72	5/8	3/4	1.77	45
32882-10-10	5/8	7/8x18	-10	5/8	-10	3.34	85	3/4	7/8	1.89	48

**36782 Male Inverted SAE 45° - Swivel  
45° Elbow**



#	Thread			Hose		A		E		H	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
36782-4-4	1/4	7/16x24	-4	1/4	-4	1.92	49	0.63	16	7/16	7/16	1.17	30
36782-6-6	3/8	5/8x18	-6	3/8	-6	2.64	67	0.94	24	1/2	5/8	1.74	44

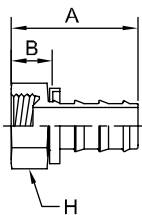
**36982 Male Inverted SAE 45° - Swivel  
90° Elbow**



#	Thread			Hose		A		E		H	W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number												
36982-4-4	1/4	7/16x24	-4	1/4	-4	1.99	51	1.56	40	7/16	7/16	1.24	31
36982-5-4	5/16	1/2x20	-5	1/4	-4	2.17	55	1.65	42	7/16	1/2	1.42	36
36982-6-6	3/8	5/8x18	-6	3/8	-6	2.30	58	1.69	43	1/2	5/8	1.40	36

**32982 Female Inverted SAE 45°  
Rigid - Straight**

Note: "B" - Brass Fitting.



#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	inch	inch	mm
	Part Number									
32982-3-4B	3/16	3/8x24	-3	1/4	-4	1.19	30	7/16	0.44	11
32982-4-4B	1/4	7/16x24	-4	1/4	-4	1.19	30	1/2	0.44	11
32982-5-4B	5/16	1/2x20	-5	1/4	-4	1.25	32	9/16	0.50	13
32982-6-6B	3/8	5/8x18	-6	3/8	-6	1.44	37	3/4	0.54	14
32982-8-8B	1/2	3/4x18	-8	1/2	-8	1.62	41	7/8	0.57	14

Hose  
A

Fittings  
82 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

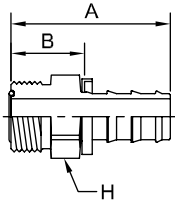
Adapters  
E

Accessories  
F

Appendices  
G

### 3J082 Male Seal-Lok® - Rigid Straight (with O-Ring)

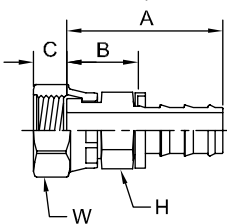
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with a "SM" suffix have a metric hex.



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
	3J082-6-6-SM	3/8	11/16x16	-6	3/8	-6	1.74	44	19mm	0.84
3J082-8-8	1/2	13/16x16	-8	1/2	-8	1.90	48	7/8	0.85	22
3J082-8-8-SM	1/2	13/16x16	-8	1/2	-8	1.90	48	22mm	0.85	22
3J082-10-10-SM	5/8	1x14	-10	5/8	-10	2.57	65	27mm	1.12	28

### 3JC82 Female Seal-Lok® - Swivel Straight - Short

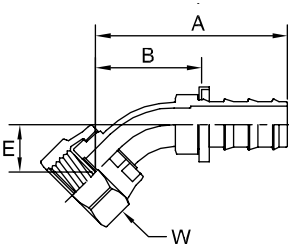
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: "B" - Brass Fitting.  
Note: "C" - Stainless Steel Fitting.  
Note: Fittings with a "SM" suffix have a metric hex.  
Note: When measuring overall length to end of nut, B + C must be used to calculate cut-off allowance.



#	Thread		Hose		A		C		H		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm	inch	mm
	3JC82-4-4	1/4	9/16x18	-4	1/4	-4	1.40	36	0.32	8	9/16	11/16	0.65	17
3JC82-4-4C	1/4	9/16x18	-4	1/4	-4	1.40	36	0.32	8	9/16	11/16	0.65	17	
3JC82-6-6	3/8	11/16x16	-6	3/8	-6	1.59	40	0.38	10	11/16	13/16	0.69	18	
3JC82-6-6C	3/8	11/16x16	-6	3/8	-6	1.59	40	0.38	10	11/16	13/16	0.69	18	
3JC82-6-6-SM	3/8	11/16x16	-6	3/8	-6	1.59	40	0.38	10	17mm	21mm	0.69	18	
3JC82-8-6	1/2	13/16x16	-8	3/8	-6	1.65	42	0.38	10	13/16	15/16	0.76	19	
3JC82-8-8	1/2	13/16x16	-8	1/2	-8	1.80	46	0.43	11	13/16	15/16	0.75	19	
3JC82-8-8C	1/2	13/16x16	-8	1/2	-8	1.80	46	0.43	11	13/16	15/16	0.75	19	
3JC82-8-8-SM	1/2	13/16x16	-8	1/2	-8	1.80	46	0.43	11	13/16	15/16	0.75	19	
3JC82-8-10-SM	1/2	13/16x16	-8	5/8	-10	2.25	57	0.43	11	22mm	24mm	0.80	20	
3JC82-10-8-SM	5/8	1x14	-10	1/2	-8	2.00	51	0.53	13	24mm	30mm	0.95	24	
3JC82-10-10	5/8	1x14	-10	5/8	-10	2.40	61	0.53	13	15/16	1-1/8	0.95	24	
3JC82-10-10-SM	5/8	1x14	-10	5/8	-10	2.40	61	0.53	13	24mm	29mm	0.95	24	
3JC82-12-12	3/4	1-3/16x12	-12	3/4	-12	2.63	67	0.57	14	1-1/8	1-3/8	1.18	30	
3JC82-12-12C	3/4	1-3/16x12	-12	3/4	-12	2.63	67	0.57	14	1-1/8	1-3/8	1.18	30	
3JC82-16-16B	1	1-7/16x12	-16	1	-16	2.61	66	0.58	15	1-3/8	1-5/8	1.16	29	

### 3J782 Female Seal-Lok® - Swivel 45° Elbow

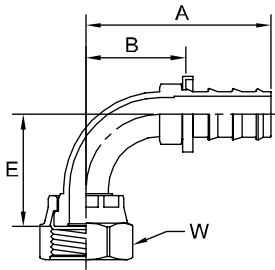
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with a "SM" suffix have a metric hex.



#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	3J782-4-4	1/4	9/16x18	-4	1/4	-4	1.74	44	0.39	10	11/16	0.99
3J782-6-6	3/8	11/16x16	-6	3/8	-6	1.99	51	0.43	11	13/16	1.09	28
3J782-8-8	1/2	13/16x16	-8	1/2	-8	2.41	61	0.59	15	15/16	1.36	35
3J782-8-8-SM	1/2	13/16x16	-8	1/2	-8	2.41	61	0.59	15	24mm	1.36	35
3J782-10-10	5/8	1x14	-10	5/8	-10	2.95	75	0.63	16	1-1/8	1.50	38
3J782-12-12	3/4	1-3/16x12	-12	3/4	-12	3.42	87	0.83	21	1-3/8	1.97	50

**3J982 Female Seal-Lok® - Swivel  
90° Elbow - Short Drop**

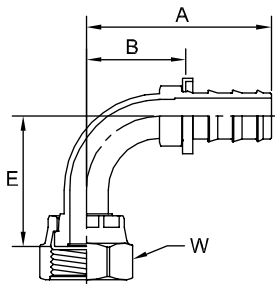
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with "SM" suffix have metric hex.



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
3J982-4-4	1/4	9/16x18	-4	1/4	-4	1.55	39	0.83	21	11/16	0.80	20
3J982-6-6	3/8	11/16x16	-6	3/8	-6	1.85	47	0.91	23	13/16	0.95	24
3J982-6-6-SM	3/8	11/16x16	-6	3/8	-6	1.85	47	0.91	23	22mm	0.95	24
3J982-6-8	3/8	11/16x16	-6	1/2	-8	2.09	53	0.91	23	13/16	1.04	26
3J982-8-6	1/2	13/16x16	-8	3/8	-6	1.94	49	1.14	29	15/16	1.04	26
3J982-8-8	1/2	13/16x16	-8	1/2	-8	2.16	55	1.14	29	15/16	1.11	28
3J982-8-8-SM	1/2	13/16x16	-8	1/2	-8	2.16	55	1.14	29	24mm	1.11	28
3J982-8-10-SM	1/2	13/16x16	-8	5/8	-10	2.49	63	1.14	29	24mm	1.04	26
3J982-10-10	5/8	1x14	-10	5/8	-10	2.76	70	1.26	32	1-1/8	1.31	33
3J982-10-10-SM	5/8	1x14	-10	5/8	-10	2.76	70	1.26	32	30mm	1.31	33
3J982-12-12	3/4	1-3/6x12	-12	3/4	-12	3.27	83	1.89	48	1-3/8	1.82	46

**3J582 Female Seal-Lok® - Swivel  
90° Elbow - Medium Drop**

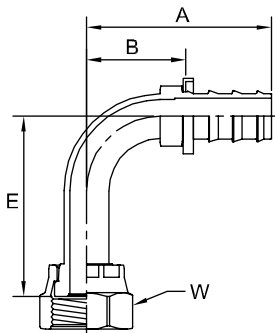
Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with "SM" suffix have metric hex.



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
3J582-10-10-SM	5/8	1x14	-10	5/8	-10	2.76	70	1.85	47	30mm	1.31	33

**3J182 Female Seal-Lok® - Swivel  
90° Elbow - Long Drop**

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.  
Note: Fittings with "SM" suffix have metric hex.



#	Thread			Hose		A		E		W	B	
	inch			inch		inch	mm	inch	mm	inch	inch	mm
3J182-4-4	1/4	9/16x18	-4	1/4	-4	1.55	39	1.81	46	11/16	0.80	20
3J182-6-6	3/8	11/16x16	-6	3/8	-6	1.85	47	2.13	54	13/16	0.95	24
3J182-8-8	1/2	13/16x16	-8	1/2	-8	2.16	55	2.52	64	15/16	1.11	28
3J182-8-8-SM	1/2	13/16x16	-8	1/2	-8	2.16	55	2.52	64	24mm	1.11	28

Hose  
A

Fittings  
82 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

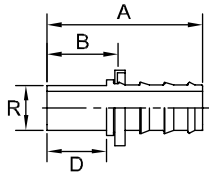
Adapters  
E

Accessories  
F

Appendices  
G

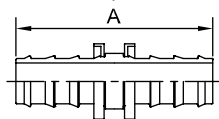
### 33482 Male Standpipe - Rigid Straight (Inch Size Tube O.D.)

Note: "B" - Brass Fitting.  
Note: "C" - Stainless Steel Fitting.



#	R		Hose		A		D		B	
	inch		inch		inch	mm	inch	mm	inch	mm
33482-3-4B	3/16	-3	1/4	-4	1.63	41	0.75	19	0.88	22
33482-4-4B	1/4	-4	1/4	-4	1.89	48	1.02	26	1.14	29
33482-4-4C	1/4	-4	1/4	-4	1.89	48	1.02	26	1.14	29
33482-5-4B	5/16	-5	1/4	-4	1.93	49	1.08	27	1.18	30
33482-6-6B	3/8	-6	3/8	-6	2.23	57	1.22	31	1.33	34
33482-6-6C	3/8	-6	3/8	-6	2.23	57	1.22	31	1.33	34
33482-8-8B	1/2	-8	1/2	-8	2.16	55	0.97	25	1.11	28
33482-8-8C	1/2	-8	1/2	-8	2.16	55	0.97	25	1.11	28
33482-10-10B	5/8	-10	5/8	-10	2.62	67	1.00	25	1.17	30

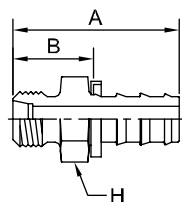
### 38282 Push-Lok Union (Hose Splicer) Note: "B" - Brass Fitting.



#	Hose		A	
	inch		inch	mm
38282-4-4B	1/4	-4	1.80	46
38282-6-6B	3/8	-6	2.15	55
38282-8-8	1/2	-8	2.51	64
38282-8-8B	1/2	-8	2.51	64
38282-10-10	5/8	-10	3.31	84
38282-10-10B	5/8	-10	3.31	84
38282-12-12	3/4	-12	3.31	84
38282-12-12B	3/4	-12	3.31	84
38282-16-16B	1	-16	3.31	84

### 3D082 Male Metric L – Rigid Straight (24° Cone)

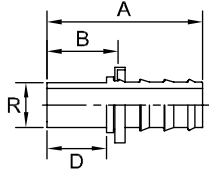
Note: Mates with EO "L" Series Fittings.



#	Thread		Hose		A		H	B		
	mm		inch		inch	mm	mm	inch	mm	
3D082-6-4	6	M12x1,5	-6	1/4	-4	1.34	34	12	0.55	14
3D082-8-4	8	M14x1,5	-8	1/4	-4	1.38	35	14	0.59	15
3D082-10-6	10	M16x1,5	-10	3/8	-6	1.57	40	17	0.63	16
3D082-12-6	12	M18x1,5	-12	3/8	-6	1.61	41	19	0.67	17
3D082-15-8	15	M22x1,5	-15	1/2	-8	1.77	45	22	0.71	18
3D082-18-10	18	M26x1,5	-18	5/8	-10	2.28	58	37	0.79	20
3D082-22-12	22	M30x2	-22	3/4	-12	2.32	59	32	0.83	21

### 31D82 Male Standpipe Metric L Rigid - Straight

Note: Mates with EO "L" Series Fittings.

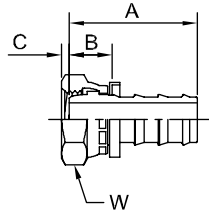


#	🌀		⊙							
	R		Hose		A		D		B	
	mm		inch		inch	mm	inch	mm	inch	mm
31D82-6-4	6	-6	1/4	-4	1.73	44	0.87	22	0.98	25
31D82-8-4	8	-8	1/4	-4	1.73	44	0.87	22	0.98	25
31D82-10-6	10	-10	3/8	-6	1.93	49	0.91	23	1.02	26
31D82-12-6	12	-12	3/8	-6	1.93	49	0.91	23	1.06	27
31D82-15-8	15	-15	1/2	-8	2.17	55	0.98	25	1.10	28
31D82-18-10	18	-18	5/8	-10	2.64	67	1.02	26	1.10	28
31D82-22-12	22	-22	3/4	-12	2.72	69	1.10	28	1.20	31

### 3C382 Female Metric L - Swivel Straight (Ball Nose)

Note: Mates with EO "L" Series Fittings.

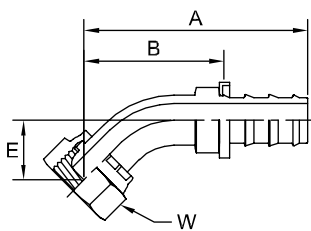
Note: When measuring overall length to end of nut, B + C must be used to calculate cut-off allowance.



#	🌀		⊙						⬡			
	Thread		Hose		A		C		W	B		
	mm		inch		inch	mm	inch	mm	inch	inch	mm	
3C382-6-4	6	M12x1,5	-6	1/4	-4	1.38	35	0.09	2	14	0.55	14
3C382-8-4	8	M14x1,5	-8	1/4	-4	1.38	35	0.11	3	17	0.55	14
3C382-10-6	10	M16x1,5	-10	3/8	-6	1.50	38	0.06	1	19	0.55	14
3C382-12-6	12	M18x1,5	-12	3/8	-6	1.54	39	0.10	2	22	0.55	14
3C382-15-8	15	M22x1,5	-15	1/2	-8	1.77	45	0.17	4	27	0.63	16
3C382-18-10	18	M26x1,5	-18	5/8	-10	1.67	42	0.10	2	32	0.63	16
3C382-22-12	22	M30x2	-22	3/4	-12	2.24	57	0.18	4	36	0.63	16

### 3C482 Female Metric L - Swivel 45° Elbow (Ball Nose)

Note: Mates with EO "L" Series Fittings.



#	🌀		⊙						⬡			
	Thread		Hose		A		E		W	B		
	mm		inch		inch	mm	inch	mm	mm	inch	mm	
3C482-6-4	6	M12x1,5	-6	1/4	-4	2.13	54	0.59	15	14	1.30	33
3C482-8-4	8	M14x1,5	-8	1/4	-4	2.13	54	0.63	16	19	1.34	34
3C482-10-6	10	M16x1,5	-10	3/8	-6	2.36	60	0.67	17	19	1.42	36
3C482-12-6	12	M18x1,5	-12	3/8	-6	2.40	61	0.71	18	22	1.46	37
3C482-15-8	15	M22x1,5	-15	1/2	-8	2.95	75	0.79	20	27	1.85	47
3C482-18-10	18	M26x1,5	-18	5/8	-10	3.82	97	1.14	29	32	2.32	59
3C482-22-12	22	M30x2	-22	3/4	-12	3.58	91	0.91	23	36	2.09	53

Hose  
A

Fittings  
82 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

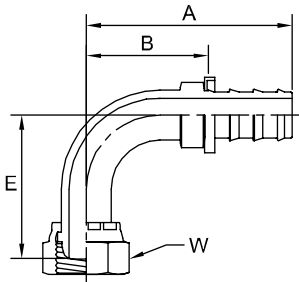
Adapters  
E

Accessories  
F

Appendices  
G

### 3C582 Female Metric L - Swivel 90° Elbow (Ball Nose)

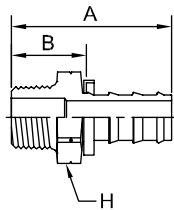
Note: Mates with EO "L" Series Fittings.



#	Thread			Hose		A		E		W	B	
	mm			inch		inch	mm	inch	mm	mm	inch	mm
	Part Number											
3C582-6-4	6	M12x1,5	-6	1/4	-4	1.69	43	1.02	26	14	0.87	22
3C582-8-4	8	M14x1,5	-8	1/4	-4	1.77	45	1.10	28	19	0.94	24
3C582-10-6	10	M16x1,5	-10	3/8	-6	2.01	51	1.18	30	19	1.02	26
3C582-12-6	12	M18x1,5	-12	3/8	-6	2.01	51	1.22	31	22	1.02	26
3C582-15-8	15	M22x1,5	-15	1/2	-8	2.56	65	1.57	40	27	1.46	37
3C582-18-10	18	M26x1,5	-18	5/8	-10	3.39	86	2.32	59	32	1.89	48
3C582-22-12	22	M30x2	-22	3/4	-12	3.39	86	1.97	50	36	1.89	48

### 39182 Male BSP Taper Pipe - Rigid Straight

Note: "B" - Brass Fitting.

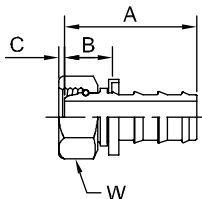


#	Thread			Hose		A		H	B	
	inch			inch		inch	mm	mm	inch	mm
	Part Number									
39182-4-4	1/4x19		-4	1/4	-4	1.65	42	14	0.83	21
39182-4-4B	1/4x19		-4	1/4	-4	1.65	42	14	0.83	21
39182-4-6B	1/4x19		-4	3/8	-6	1.83	46	19	0.94	24
39182-6-6	3/8x19		-6	3/8	-6	1.89	48	19	0.98	25
39182-6-6B	3/8x19		-6	3/8	-6	1.89	48	19	0.98	25
39182-6-8B	3/8x19		-6	1/2	-8	1.93	49	19	0.98	25
39182-8-8	1/2x14		-8	1/2	-8	2.20	56	22	1.10	28
39182-8-8B	1/2x14		-8	1/2	-8	2.20	56	22	1.10	28
39182-12-10B	3/4x14		-12	5/8	-10	2.64	67	27	1.14	29
39182-12-12	3/4x14		-12	3/4	-12	2.72	69	27	1.22	31
39182-12-12B	3/4x14		-12	3/4	-12	2.72	69	27	1.22	31

### 39282 Female BSP Parallel Pipe Swivel - Straight (60° Cone)

Note: When measuring overall length to end of nut, B + C must be used to calculate cut-off allowance.

Note: "B" - Brass Fitting.



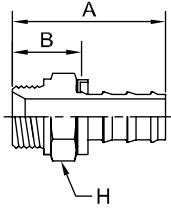
#	Thread			Hose		A		C		W	B	
	inch			inch		inch	mm	inch	mm	mm	inch	mm
	Part Number											
39282-4-4	1/4x19		-4	1/4	-4	1.34	34	0.22	6	17	0.55	14
39282-6-6	3/8x19		-6	3/8	-6	1.50	38	0.26	7	19	0.55	14
39282-6-6B	3/8x19		-6	3/8	-6	1.50	38	0.26	7	19	0.55	14
39282-8-8	1/2x14		-8	1/2	-8	1.77	45	0.28	7	27	1.06	27
39282-12-12	3/4x14		-12	3/4	-12	2.13	54	0.35	9	36	1.42	36

**3D982 Male BSP Parallel Pipe - Rigid  
Straight (60° Cone)**

Note: When used in a part, a bonded seal must be used. See Section F.

Hose  
**A**

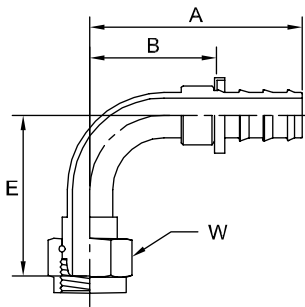
Fittings  
82 Series  
**B**



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	mm	inch	mm	
	Part Number									
3D982-2-4	1/8x28	-2	1/4	-4	1.42	36	14	0.63	16	
3D982-4-4	1/4x19	-4	1/4	-4	1.61	41	19	0.83	21	
3D982-4-6	1/4x19	-4	3/8	-6	1.77	45	19	0.83	21	
3D982-6-6	3/8x19	-6	3/8	-6	1.77	45	22	0.87	22	
3D982-8-8	1/2x14	-8	1/2	-8	2.09	53	27	0.98	25	
3D982-8-10	1/2x14	-8	5/8	-10	2.44	62	27	0.94	24	
3D982-10-10	5/8x14	-10	5/8	-10	2.52	64	30	1.06	27	
3D982-12-12	3/4x14	-12	3/4	-12	2.56	65	32	1.06	27	

**3B282 Female BSP Parallel Pipe  
Swivel - 90° Elbow (60° Cone)**

Parkrimp  
Crimping  
Equipment  
**C**

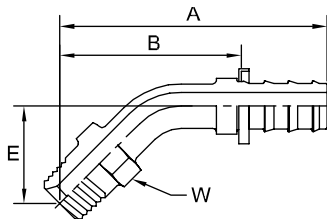


#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	mm	inch	mm	
	Part Number											
3B282-4-4	1/4x19	-4	1/4	-4	1.65	42	1.02	26	17	1.02	26	
3B282-6-6	3/8x19	-6	3/8	-6	2.09	53	1.18	30	19	1.18	30	
3B282-8-8	1/2x14	-8	1/2	-8	2.56	65	1.57	40	27	1.57	40	
3B282-10-10	5/8x14	-10	5/8	-10	2.99	76	1.57	40	30	1.57	40	
3B282-12-12	3/4x14	-12	3/4	-12	3.39	86	2.2	56	32	2.2	56	

**3BV82 Male BSP Taper Pipe - Rigid  
45° Elbow**

Note: "B" Brass Fitting.

Adapters  
**E**

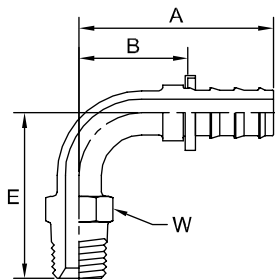


#	Thread		Hose		A		E		B	
	inch		inch		inch	mm	inch	mm	inch	mm
	Part Number									
3BV82-4-6B	1/4x19	-4	3/8	-6	2.44	62	0.87	22	1.54	39

**3BZ82 Male BSP Taper Pipe - Rigid  
90° Elbow or Side Outlet**

Note: "B" Brass Fitting.

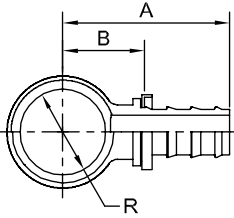
Accessories  
**F**



#	Thread		Hose		A		E		B	
	inch		inch		inch	mm	inch	mm	inch	mm
	Part Number									
3BZ82-4-6B	1/4x19	-4	3/8	-6	1.93	49	1.56	40	1.03	26

Appendices  
**G**

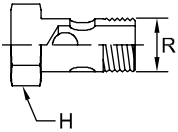
### 34982 DIN Metric Banjo - Straight



# Part Number	R		Hose		A		B	
	mm		inch		inch	mm	inch	mm
	34982-8-4	8	-8	1/4	-4	1.42	36	0.63
34982-10-4	10	-10	1/4	-4	1.5	38	0.71	18
34982-12-4	12	-12	1/4	-4	1.57	40	0.79	20
34982-12-6	12	-12	3/8	-6	1.73	44	0.79	20
34982-14-4	14	-14	1/4	-4	1.65	42	0.87	22
34982-14-6	14	-14	3/8	-6	1.85	47	0.91	23
34982-16-6	16	-16	3/8	-6	1.93	49	0.98	25
34982-18-8	18	-18	1/2	-8	2.17	55	1.06	27

### AM Banjo Bolt with DIN Metric Thread

Note: Two (2) copper washers per bolt must be ordered separately.



# Part Number	R Thread		H	Copper Washer
	mm		mm	2
	AM-03	8	M8x1	12
AM-04	10	M10x1	14	853009-10
AM-06	12	M12x1.5	17	853009-12
AM-08	14	M14x1.5	19	853009-14
AM-10	16	M16x1.5	22	853009-16
AM-13	18	M18x1.5	24	853009-18
AM-16	22	M22x1,5	27	853009-22
AM-20	26	M26x1,5	32	853009-26
AM-30	30	M30x1,5	36	853009-30

Hose	A
Fittings 82 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



**Parker Push-Lok Kits**

Parker Push-Lok Kits are for industrial and automotive maintenance and repair shops. They provide a low-cost inventory of Push-Lok hose and fittings packaged in a sturdy metal container. They save time and money on hose line replacements for water, air, lubricating oils, anti-freeze solutions, diesel fuel and vacuum applications.

Hose  
**A**

Fittings  
82 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**



**Part No. 4-83A**

#	Quantity
Bulk Hose	
831-4 (1/4" I.D.)	10 ft.
Male Pipe	
30182-2-4B	4
30182-4-4B	2
Female Pipe	
30282-4-4B	2
Male SAE 45°	
30482-4-4B	1
30482-5-4B	2
SAE (JIC) 37° Female Swivel	
30682-4-4B	4
30682-5-4B	2

#	Quantity
Male Inverted Swivel	
32882-3-4	1
32882-4-4	4
32882-5-4	4
Female Inverted Rigid	
32981-3-4B	1
32982-4-4B	2
32982-5-4B	4
Straight Tube	
33482-4-4B	2
33482-5-4B	2
Hose Union	
38282-4-4B	2

Hose  
Assembly  
Equipment  
**D**



**Part No. 46-83A**

#	Quantity
Hose	
831-4 (1/4" I.D.)	24 ft.
831-6 (3/8" I.D.)	24 ft.
Male Pipe	
30182-2-4B	8
30182-4-4B	5
30182-4-6B	5
30182-6-6B	6
Male SAE 45°	
30482-4-4B	2
30482-6-6B	3
SAE (JIC) 37° Female Swivel	
30682-6-6B	5
SAE 45° Swivel	
30882-4-4B	5
30882-5-4B	5
30882-6-6B	5

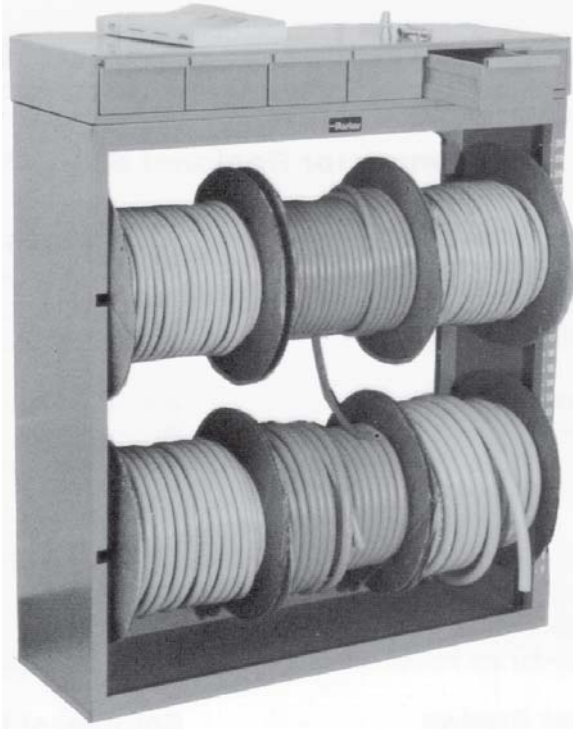
#	Quantity
Male Inverted Swivel	
32882-3-4	3
32882-4-4	5
32882-5-4	5
32882-6-6	3
Female Inverted Rigid	
32982-3-4B	3
32982-4-4B	3
32982-5-4B	5
32982-6-6B	3
Hose Union	
38282-4-4B	4
38282-6-6B	2

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**Parker Push-Lok Merchandiser**  
**PLM -1 (801 Hose)**  
**PLM -2 (821 Hose)**



The Push-Lok Merchandiser is an ideal method of displaying Push-Lok in will-call areas, maintenance shops, or other areas where air lines are fabricated.

**Features**

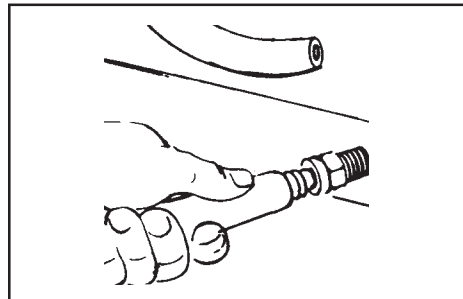
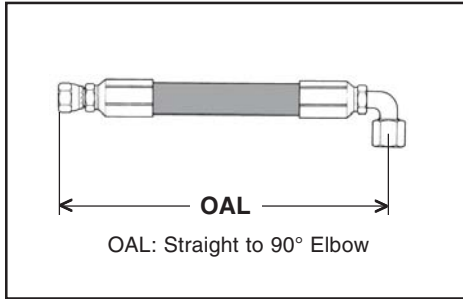
The Push-Lok hose and fitting merchandiser offers the following features:

- Hose quantity
  - 300 feet 1/4" I.D.
  - 375 feet 3/8" I.D.
  - 100 feet 1/2" I.D.
- 25 each of the following fittings:

30182-4-4B	30682-4-4B	30882-6-6B
30182-6-6B	30682-6-6B	
30182-8-8B	30682-8-8B	
- Fitting drawers to store up to 18 different styles/sizes of fittings.
- A hand held hose cutter
- 30" tape measure

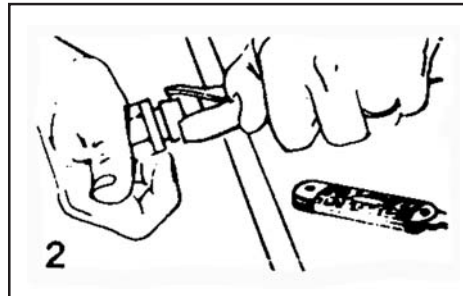
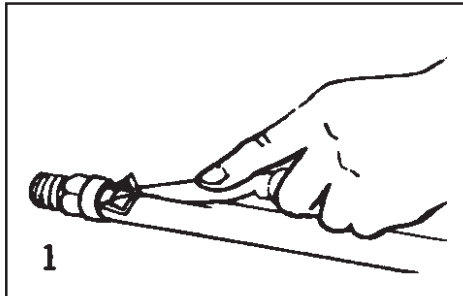
Hose	A
Fittings 82 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

## Push-Lok 82 Series Assembly Instructions



1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) by use of the fitting data table.
2. Properly measure and mark hose. Cut hose squarely with a Parker Push-Lok cut-off tool or a sharp knife.
3. Lubricate the Push-Lok fitting, hose I.D., or both with light oil or soapy water only - DO NOT USE HEAVY OIL OR GREASE.
4. Insert fitting into hose until first barb is in the hose.
5. Place end fitting against a flat object such as a work bench or wall. Grip hose approximately one inch from end and push with a steady force until the end of the hose is covered by the yellow plastic cap.

## Push-Lok 82 Series Disassembly Instructions



1. Leave fitting in place, and cut hose approximately one inch lengthwise from the yellow plastic cap. **IMPORTANT:** Be careful not to nick barbs when cutting hose.
2. Grip hose firmly and give it a sharp downward tug away from the fitting for disassembly.

**Caution:** Insert the Push-Lok fitting all the way into the Push-Lok hose until the cut end is concealed by the yellow plastic cap.  
**Caution:** Sealing integrity may be damaged by use of exterior clamps.



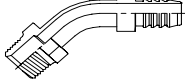
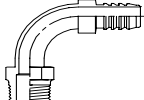

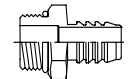

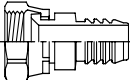

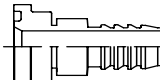
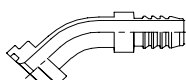


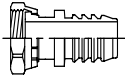

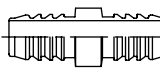

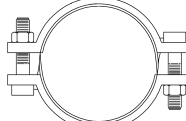


**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS  
CONTAINED IN THIS CATALOG, PLEASE CALL:**

**PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT**

**PHONE: 440-943-5700**

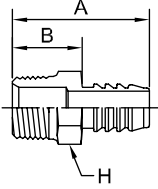
**FAX: 440-943-3129**

**www.parkerhose.com**

 <p><b>NPTF Pipe</b></p>	<p>0188 B-194</p>  <p>Male - Rigid - Straight</p>	<p>3188 B-194</p>  <p>Male - Rigid 45° Elbow</p>	<p>2188 B-194</p>  <p>Male - Rigid 90° Elbow</p>	 <p><b>Straight Thread O-Ring</b></p>	<p>0588 B-194</p>  <p>Male - Rigid - Straight</p>
 <p><b>JIC 37°</b></p>	<p>0688 B-195</p>  <p>Female - Swivel Straight</p>	 <p><b>Code 61 Flange</b></p>	<p>1588 B-195</p>  <p>Straight</p>	<p>1788 B-195</p>  <p>45° Elbow</p>	<p>1988 B-195</p>  <p>90° Elbow</p>
 <p><b>Seal-Lok®</b></p>	<p>JS88 B-196</p>  <p>Female - Swivel Straight - Long</p>	 <p><b>Union</b></p>	<p>8888 B-196</p>  <p>Hose Splicer</p>	 <p><b>Clamps</b></p>	<p>88DB B-196</p>  <p>Double Bolt</p>
<p>88HC-H B-196</p>  <p>High Torque Wormgear</p>	 <p><b>Assembly Instructions</b></p>	<p>88 Series Assembly Instructions B-197</p>			

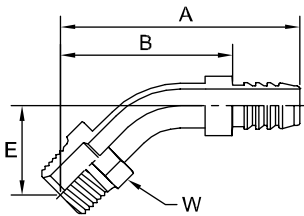
A	Hose
B	Fittings 88 Series
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
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0188 Male NPTF Pipe - Rigid  
Straight



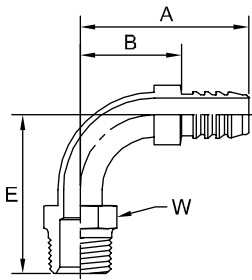
#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
	Part Number									
0188-12-12	3/4x14	-12	3/4	-12	2.25	57	1-1/8	1.13	29	
0188-16-16	1x11-1/2	-16	1	-16	2.75	70	1-3/8	1.37	35	
0188-20-20	1-1/4x11-1/2	-20	1-1/4	-20	3.05	77	1-3/4	1.47	37	
0188-20-24	1-1/4x11-1/2	-20	1-1/2	-24	3.21	82	1-3/4	1.47	37	
0188-24-24	1-1/2x11-1/2	-24	1-1/2	-24	3.24	82	2	1.5	38	
0188-32-32	2x11-1/2	-32	2	-32	3.49	89	2-1/2	1.66	42	

3188 Male NPTF Pipe - Rigid  
45° Elbow



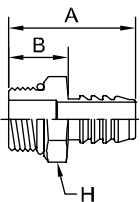
#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number											
3188-16-16	1x11-1/2	-16	1	-16	4.12	105	1.63	41	1-3/8	2.74	70	
3188-20-20	1-1/4x11-1/2	-20	1-1/4	-20	4.54	115	1.77	45	1-3/4	2.96	75	

2188 Male NPTF Pipe - Rigid  
90° Elbow



#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
	Part Number											
2188-12-12	3/4x14	-12	3/4	-12	2.83	72	2.67	68	1-1/8	1.70	43	
2188-16-16	1x11-1/2	-16	1	-16	3.35	85	3.18	81	1-3/8	1.97	50	
2188-20-20	1-1/4x11-1/2	-20	1-1/4	-20	3.80	97	3.41	87	1-3/4	2.21	56	
2188-24-24	1-1/2x11-1/2	-24	1-1/2	-24	4.20	107	3.61	92	2	2.46	62	
2188-32-32	2x11-1/2	-32	2	-32	4.86	123	4.23	107	2-1/2	3.03	77	

0588 Male SAE Straight Thread with  
O-Ring - Rigid - Straight



#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
	Part Number									
0588-12-12	1-1/16x12	-12	3/4	-12	2.13	54	1-1/4	1.00	25	
0588-16-16	1-5/16x12	-16	1	-16	2.38	60	1-1/2	1.00	25	
0588-20-20	1-5/8x12	-20	1-1/4	-20	2.59	66	1-7/8	1.00	25	

Hose  
A

Fittings  
88 Series  
B

Parkrimp  
Crimping  
Equipment  
C

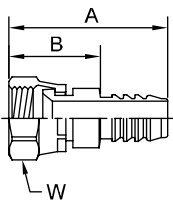
Hose  
Assembly  
Equipment  
D

Adapters  
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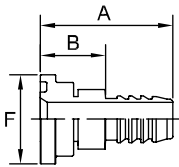
0688 Female JIC 37° - Swivel  
Straight



#	Thread			Hose		A		W		B	
	inch			inch		inch	mm	inch	mm	inch	mm
0688-12-12	3/4	1-1/16x12	-12	3/4	-12	2.66	68	1-1/4	1.53	39	
0688-16-16	1	1-5/16x12	-16	1	-16	2.72	69	1-1/2	1.34	34	
0688-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	3.34	85	2	1.75	44	
0688-24-24	1-1/2	1-7/8x12	-24	1-1/2	-24	3.67	93	2-1/4	1.93	49	
0688-32-32	2	2-1/2x12	-32	2	-32	4.14	105	2-7/8	2.31	59	

1588 SAE Code 61 Flange Head -  
Straight - ISO 12151-3-S-L

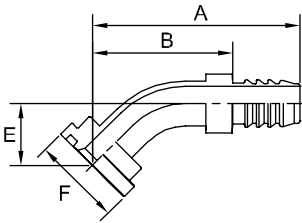
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		F		B	
	inch		inch		inch	mm	inch	mm	inch	mm
1588-16-16	1	-16	1	-16	2.57	65	1-3/4	1.19	30	
1588-20-20	1-1/4	-20	1-1/4	-20	3.37	86	2	1.78	45	
1588-24-24	1-1/2	-24	1-1/2	-24	3.78	96	2-3/8	2.04	52	
1588-32-32	2	-32	2	-32	4.32	110	2-13/16	2.49	63	

1788 SAE Code 61 Flange Head - 45°  
Elbow ISO 12151-3-E45S-L  
(1 Piece: ISO 12151-3-E45M-L)

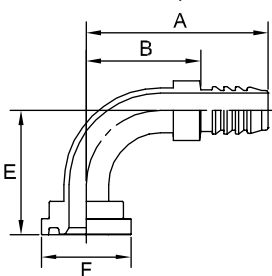
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	mm	inch	mm
1788-16-16	1	-16	1	-16	3.55	90	1.06	27	1-3/4	2.17	55	
1788-20-20	1-1/4	-20	1-1/4	-20	3.90	99	1.13	29	2	2.31	59	
1788-24-24	1-1/2	-24	1-1/2	-24	4.15	105	1.11	28	2-3/8	2.41	61	
1788-32-32	2	-32	2	-32	4.58	116	1.25	32	2-13/16	2.75	70	

1988 SAE Code 61 Flange Head - 90°  
Elbow - ISO 12151-3-E90S-L  
(1 Piece: 12151-3-E90M-L)

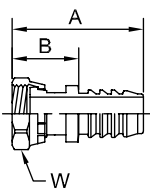
Note: Flange kits and O-Rings listed in Section F.



#	Flange		Hose		A		E		F		B	
	inch		inch		inch	mm	inch	mm	inch	mm	inch	mm
1988-16-16	1	-16	1	-16	3.35	85	2.37	60	1-3/4	1.97	50	
1988-20-20	1-1/4	-20	1-1/4	-20	3.80	97	2.50	64	2	2.21	56	
1988-24-24	1-1/2	-24	1-1/2	-24	4.20	107	2.74	70	2-3/8	2.46	62	
1988-32-32	2	-32	2	-32	4.86	123	3.19	81	2-13/16	3.03	77	

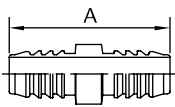
### JS88 Female Seal-Lok® - Swivel Straight - Long

Note: Seal-Lok® torque table in Section G.  
Note: Seal-Lok® O-Rings are listed in Section F.



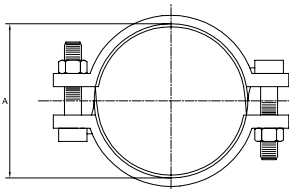
#	Thread			Hose		A		W		B	
	inch			inch		inch	mm	inch	inch	inch	mm
JS88-24-24	1-1/2	2x12	-24	1-1/2	-24	3.47	88	2-1/4	1.73	44	

### 8888 Union (Hose Splicer)



#	Hose		A	
	inch	inch	inch	mm
8888-12-12	3/4	-12	2.70	67
8888-16-16	1	-16	3.21	82
8888-20-20	1-1/4	-20	3.61	92
8888-24-24	1-1/2	-24	3.92	100
8888-32-32	2	-32	4.04	103

### 88DB Series Heavy Duty Hose Clamp (Double Bolt Hose Clamp)



#	Hose	
	inch	
88DB-12	3/4	-12
88DB-16	1	-16
88DB-20	1-1/4	-20
88DB-24	1-1/2	-24
88DB-32	2	-32

### 88HC-H Series Hose Clamp (High Torque Wormgear)

Note: See 88 Series Assembly Instructions for proper 88HC-H clamp attachment.



#	Hose	
	inch	
88HC-16H*	3/4*	-12*
88HC-16H	1	-16
88HC-20H	1-1/4	-20
88HC-32H*	1-1/2*	-24*
88HC-32H	2	-32
88HC-40H	2-1/2	-40
88HC-48H	3	-48

Hose  
**A**

Fittings  
88 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

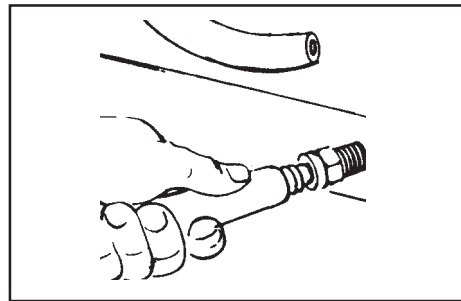
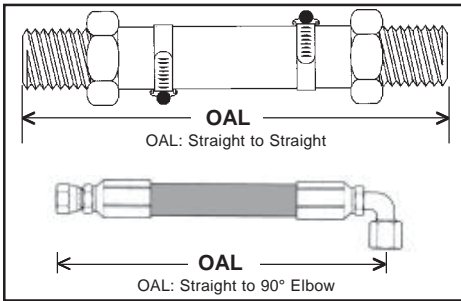
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

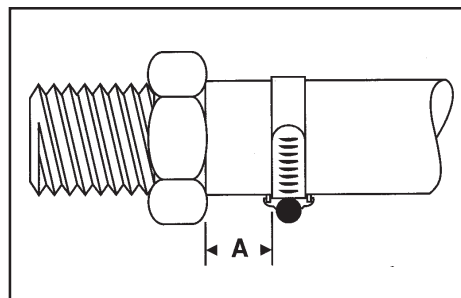
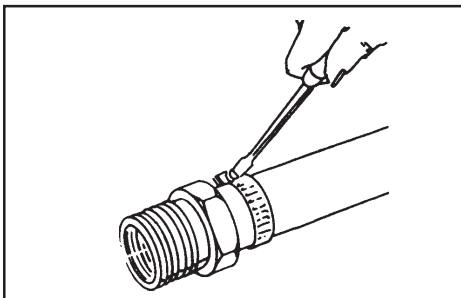
Appendices  
**G**

**88 Series Assembly Instructions**



1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) by use of the fitting data table. Properly measure and mark hose. Cut hose cleanly and squarely to length. Trim any exposed wire reinforcement to prevent injury in service.

2. Slide clamp(s) onto hose and lubricate hose. Push hose onto fitting until hose bottoms against stop ring or hex.



3. Position hose clamp(s) as shown and secure with a screwdriver or wrench. Maintain "A" dimensions as shown below for proper clamp positioning of both HC clamps and HC-H clamps.  
 3a. Evenly attach double bolt clamps for maximum grip.

Hose Size	A	
	inch	mm
-12	1/4	6.35
-16	3/8	9.53
-20	3/8	9.53
-24	1/2	12.70
-32	1/2	12.70

**Note:** For permanent installation of 88 Series Fittings, an 81 Series Crimp Shell must be added. See page B-97 for 81 Series information and Section C for assembly and crimping instructions.

**IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL:**

**PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT**  
**PHONE: 440-943-5700**  
**FAX: 440-943-3129**  
**www.parkerhose.com**



Hose  
**A**

Fittings  
 88 Series  
**B**

Parkrimp  
 Crimping  
 Equipment  
**C**

Hose  
 Assembly  
 Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**


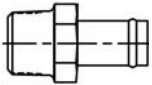
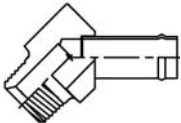
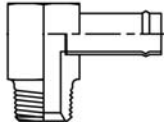

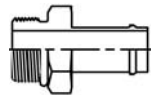
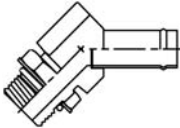
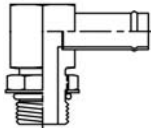




# Notes

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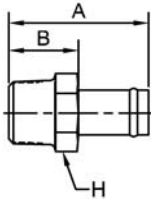
<b>A</b>	Hose
<b>B</b>	Fittings 88 Series
<b>C</b>	Parkrimp Crimping Equipment
<b>D</b>	Hose Assembly Equipment
<b>E</b>	Adapters
<b>F</b>	Accessories
<b>G</b>	Appendices



 <p><b>Male Pipe</b></p>	<p>01TB B-200</p>  <p>Male - Rigid - Straight</p>	<p>31TB B-200</p>  <p>Male - Rigid 45° Elbow</p>	<p>21TB B-200</p>  <p>Male - Rigid 90° Elbow</p>	 <p><b>Straight Thread O-Ring</b></p>	<p>05TB B-201</p>  <p>Male - Rigid - Straight</p>
<p>35TB B-201</p>  <p>Male - Rigid 45° Elbow</p>	<p>25TB B-201</p>  <p>Male - Rigid 90° Elbow</p>	 <p><b>Hose Clamp</b></p>	<p>88HC-H B-202</p>  <p>High Torque Wormgear</p>		

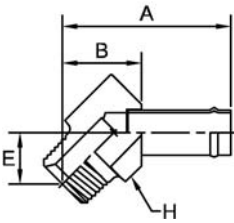
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Fittings TB Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

**01TB Male NPTF Pipe - Rigid  
Straight**



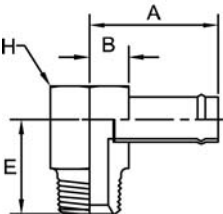
#	Thread		Hose		A		H		B	
	inch		inch		inch	mm	inch	inch	inch	mm
01TB-4-6	1/4x18	-4	3/8	-6	2.09	53	5/8	0.96	24	
01TB-6-8	3/8x18	-8	1/2	-8	2.12	54	3/4	0.96	24	
01TB-8-10	1/2x14	-8	5/8	-10	2.81	59	7/8	1.15	29	
01TB-8-12	1/2x14	-8	3/4	-12	2.31	59	1	1.15	29	
01TB-12-12	3/4x14	-12	3/4	-12	2.13	54	1-1/8	0.97	24	
01TB-16-16	1x11-1/2	-16	1	-16	2.69	68	1-3/8	1.53	39	
01TB-20-20	1-1/4x11-1/2	-20	1-1/4	-20	2.84	72	1-3/4	1.34	34	
01TB-24-24	1-1/2x11-1/2	-24	1-1/2	-24	3.25	83	2	1.50	38	
01TB-32-32	2x11-1/2	-32	2	-32	3.53	90	2-5/8	1.78	45	

**31TB Male NPTF Pipe - Rigid  
45° Elbow**



#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
31TB-6-8	3/8x18	-6	1/2	-8	2.54	65	0.69	18	7/8	1.04	26	
31TB-8-10	1/2x14	-8	5/8	-10	2.68	68	0.82	21	1	1.18	30	
31TB-8-12	1/2x14	-8	3/4	-12	2.78	71	0.82	21	1-1/4	1.28	33	
31TB-12-12	3/4x14	-12	3/4	-12	2.82	72	0.86	22	1-1/4	1.32	34	
31TB-12-16	3/4x14	-12	1	-16	3.01	76	0.86	22	1-1/2	1.38	35	
31TB-16-16	1x11-1/2	-16	1	-16	3.19	81	1.04	26	1-1/2	1.56	40	
31TB-20-20	1-1/4x11-1/2	-20	1-1/4	-20	3.26	83	0.99	25	1-7/8	1.59	40	

**21TB Male NPTF Pipe - Rigid  
90° Elbow**



#	Thread		Hose		A		E		W		B	
	inch		inch		inch	mm	inch	mm	inch	inch	inch	mm
21TB-6-8	3/8x18	-6	1/2	-8	1.94	49	1.22	31	7/8	0.44	11	
21TB-8-10	1/2x14	-8	5/8	-10	2.03	52	1.47	37	1-1/16	0.53	13	
21TB-8-12	1/2x14	-8	3/4	-12	2.16	55	1.59	40	1-5/16	0.66	17	
21TB-12-12	3/4x14	-12	3/4	-12	2.16	55	1.59	40	1-5/16	0.66	17	
21TB-12-16	3/4x14	-12	1	-16	2.44	62	1.59	40	1-5/8	0.81	21	
21TB-16-14	1x11-1/2	-16	7/8	-14	2.31	59	1.97	50	1-5/8	0.81	21	
21TB-16-16	1x11-1/2	-16	1	-16	2.44	62	1.97	50	1-5/8	0.81	21	

Hose  
A

Fittings  
TB Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

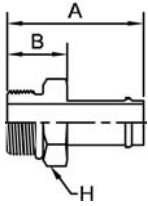
Adapters  
E

Accessories  
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**05TB Male SAE Straight Thread with O-Ring - Rigid - Straight**

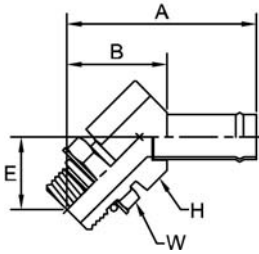
Note: O-Ring not compatible with Phosphate Ester fluids.



#	Thread			Hose		A		H		B	
	inch			inch		inch	mm	inch	inch	inch	mm
	Part Number	Thread	Length	Hose	Length	inch	mm	inch	inch	inch	mm
05TB-6-6	9/16X18	-6	3/8	-6	1.94	49	11/16	0.69	18		
05TB-8-8	3/4X16	-8	1/2	-8	2.00	51	7/8	0.75	19		
05TB-8-10	3/4X16	-8	5/8	-10	2.00	51	7/8	0.75	19		
05TB-10-10	7/8X14	-10	5/8	-10	2.06	52	1	0.81	21		
05TB-12-12	1-1/16X12	-12	3/4	-12	2.25	57	1-1/4	1.00	25		
05TB-16-16	1-5/16X12	-16	1	-16	2.38	60	1-1/2	1.00	25		
05TB-20-20	1-5/8X12	-20	1-1/4	-20	2.50	64	1-7/8	1.00	25		

**35TB Male SAE Straight Thread with O-Ring - Rigid - 45° Elbow**

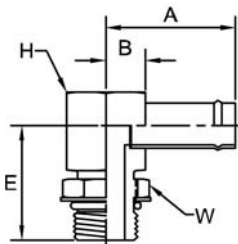
Note: O-Ring not compatible with Phosphate Ester fluids.



#	Thread			Hose		A		E		H		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm	inch	mm
	Part Number	Thread	Length	Hose	Length	inch	mm	inch	mm	inch	inch	inch	mm	inch	mm
35TB-8-8	1/2	3/4x16	-8	1/2	-8	2.79	71	0.93	24	7/8	7/8	1.29	33		
35TB-10-10	5/8	7/8x14	-10	5/8	-10	2.80	71	0.93	24	1	1	1.28	33		
35TB-12-12	3/4	1-1/16x12	-12	3/4	-12	3.18	81	1.22	31	1-1/4	1-1/4	1.68	43		
35TB-16-16	1	1-5/16x12	-16	1	-16	3.45	88	1.30	33	1-1/2	1-1/2	1.82	46		
35TB-20-16	1-1/4	1-5/8x12	-20	1	-16	3.57	91	1.34	34	1-7/8	1-7/8	1.94	49		

**25TB Male SAE Straight Thread with O-Ring - Rigid - 90° Elbow**

Note: O-Ring not compatible with Phosphate Ester fluids.



#	Thread			Hose		A		E		H		W		B	
	inch			inch		inch	mm	inch	mm	inch	inch	inch	mm	inch	mm
	Part Number	Thread	Length	Hose	Length	inch	mm	inch	mm	inch	inch	inch	mm	inch	mm
25TB-8-6	1/2	3/4x16	-8	3/8	-6	1.94	49	1.45	37	7/8	7/8	0.44	11		
25TB-8-8	1/2	3/4x16	-8	1/2	-8	1.94	49	1.44	37	7/8	7/8	0.44	11		
25TB-10-10	5/8	7/8x14	-10	5/8	-10	2.03	52	1.69	43	1-1/16	1	0.53	13		
25TB-10-12	5/8	7/8x14	-10	3/4	-12	2.16	55	1.69	43	1-5/16	1	0.66	17		
25TB-12-12	3/4	1-1/16x12	-12	3/4	-12	2.16	55	1.92	49	1-5/16	1-1/4	0.66	17		
25TB-16-12	1	1-5/16x12	-16	3/4	-12	2.31	59	2.03	52	1-5/8	1-1/2	0.81	21		
25TB-16-16	1	1-5/16x12	-16	1	-16	2.44	62	2.03	52	1-5/8	1-1/2	0.81	21		
25TB-20-16	1-1/4	1-5/8x12	-20	1	-16	2.57	65	2.34	59	1-7/8	1-7/8	0.94	24		
25TB-20-20	1-1/4	1-5/8x12	-20	1-1/4	-20	2.61	66	2.34	59	1-7/8	1-7/8	0.94	24		

**88HC-H Series Hose Clamp  
(High Torque Wormgear)**



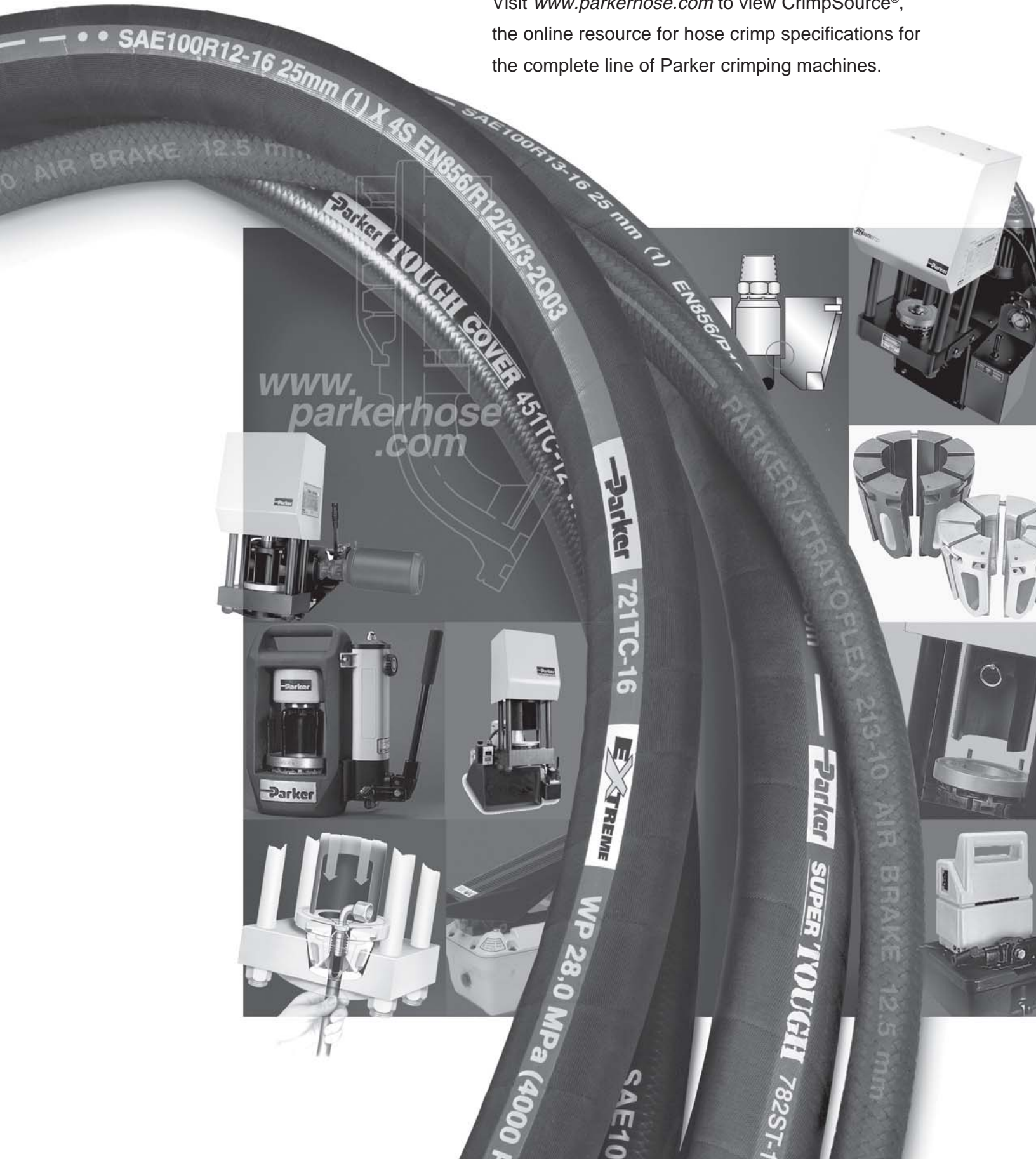
#  Part Number	○  Hose inch	
	88HC-16H*	3/4*
88HC-16H	1	-16
88HC-20H	1-1/4	-20
88HC-32H*	1-1/2*	-24*
88HC-32H	2	-32
88HC-40H	2-1/2	-40
88HC-48H	3	-48

- Hose  
**A**
- Fittings  
TB Series  
**B**
- Parkrimp  
Crimping  
Equipment  
**C**
- Hose  
Assembly  
Equipment  
**D**
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- Appendices  
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# Parkrimp Crimping Equipment

Visit [www.parkerhose.com](http://www.parkerhose.com) to view CrimpSource®, the online resource for hose crimp specifications for the complete line of Parker crimping machines.



**A** Hose

**B** Fittings

**C** Parkrimp Crimping Equipment

**D** Hose Assembly Equipment

**E** Adapters

**F** Accessories

**G** Appendices

<p>Parkrimp Tool Selection Chart ..... C-3-7</p> <p>Crimp Diameters and Hose Insertion Depths ..... C-26</p>	<p>Minikrimp ..... C-8 Assembly Instructions ..... C-9</p> 	<p>Karrykrimp ..... C-10 Assembly Instructions ..... C-17</p> 
<p>Karrykrimp 2 ..... C-11 Assembly Instructions ..... C-17</p> 	<p>Minikrimp, Karrykrimp &amp; Karrykrimp 2 Pumps ..... C-12</p> 	<p>Minikrimp, Karrykrimp &amp; Karrykrimp 2 Pumps ..... C-13-14</p> 
<p>Parkrimp 1 ..... C-15 Assembly Instructions ..... C-17</p> 	<p>PHastkrimp ..... C-16 Assembly Instructions ..... C-17</p> 	<p>Parkrimp 2 ..... C-18 Assembly Instructions ..... C-19-20</p> 
<p>Hydraulic Press Kit ..... C-21-23</p> 	<p>Weatherhead Conversion Kit ..... C-24</p> 	<p>Gates Conversion Kit ..... C-25</p> 



**PARKRIMP NO-SKIVE TOOL SELECTION CHARTS**

- Select the Parker Hose that meets your application requirements.
- Find the Parker Hose base part number, size, and the Parker Fitting Series in the Parkrimp Tool Selection Chart below or on the following page(s).
- Based on hose size, select color coded unitized die train. (HY Series Dies are not color coded. The Brown cavity is is for all sizes.)

Hose Dash Size	Hose Size	(Nominal) Size	Color Code
-4	1/4"	(3/16")	RED
-5	5/16"	(1/4")	PURPLE
-6	3/8"	(5/16")	YELLOW
-8*	1/2"	(13/32")	BLUE
-10	5/8"	(1/2")	ORANGE
-12	3/4"	(5/8")	GREEN
-16	1"	(7/8")	BLACK
-20	1-1/4"	(1-1/8")	WHITE
-24	1-1/2"	(1-3/8")	RED
-32**	2"	(1-13/32")	GREEN

**Examples:**

Part Number	Description
80C-E08*	Silver 13/32" Blue Cavity 26 Series Die
80C-A08*	Silver 1/2" Blue Cavity 43 Series Die
83C-L32**	Olive Drab 2" Green Cavity 78 Series Die
83C-D08*	Black 1/2" Blue Cavity 71 Series Die

- Based on the Parkrimp machine, select the tool(s) for proper assembly (die ring, spacer ring, spacer plate, and/or adapter bowl).
- Hose assembly instructions for the Parkrimp machine are on the pages following the catalog description of the unit. (An instructional video is a standard part of each Parkrimp machine shipped from the manufacturer.)

**Parkrimp Tool Selection Chart – 1 of 5**

Hose	Size Range	Fitting Series	Die Used (Base Color)	Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Minikrimp	Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Parkrimp 2
				82C-R01-PFD	82C-R01	85C-R01	80C-R01	85C-R01	83C-OCB
AX	-4/-16*	HY	Silver 80C-Hxx	82C-R01-PFD	82C-R01	85C-R01	80C-R01	85C-R01	83C-OCB
BXX	-4/-16*	HY	Silver 80C-Hxx	82C-R02-PFD	82C-R02	85C-R02	80C-R02	85C-R02	83C-R02 / 83C-OCB
CN	-20/-32	73	Olive Drab 83C-Lxx	-----	-----	-----	-----	-----	NONE REQUIRED
SS23CG	-6/-10	26	Silver 80C-Exx	82C-R02-PFD	82C-R02	85C-R02	80C-R02	85C-R02	83C-R02 / 83C-OCB
201/261	-4/-16	26	Silver 80C-Exx	82C-R02-PFD	82C-R02	85C-R02	80C-R02	85C-R02	83C-R02 / 83C-OCB
201/261	-20/-32	26	Silver 83C-Exx	-----	-----	-----	-----	-----	83C-R02H
206	-4/-16	26	Silver 80C-Exx	82C-R02-PFD	82C-R02	85C-R02	80C-R02	85C-R02	83C-R02 / 83C-OCB
206	-20/-32	26	Silver 83C-Exx	-----	-----	-----	-----	-----	83C-R02H
213	-4/-16	26	Silver 80C-Exx	82C-R01-PFD	82C-R01	85C-R01	80C-R01	85C-R01	83C-OCB
























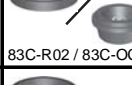










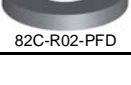




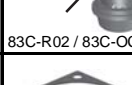

















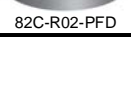






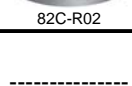
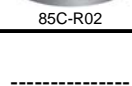
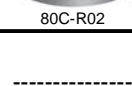



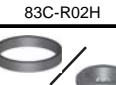

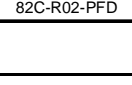
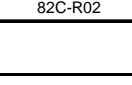
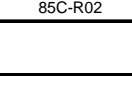
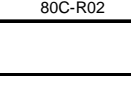
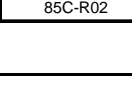
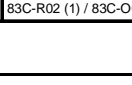
\* Minikrimp, Karrykrimp and Parkrimp 1 will not crimp AX-16 and BXX-16 hose.



Hose  
**A**  
 Fittings  
**B**  
 Parkrimp Crimping Equipment  
**C**  
 Hose Assembly Equipment  
**D**  
 Adapters  
**E**  
 Accessories  
**F**  
 Appendices  
**G**































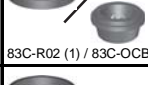












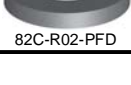






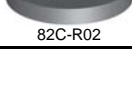
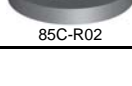
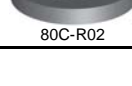
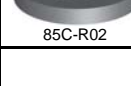




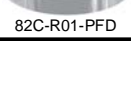






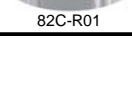

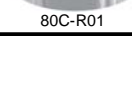
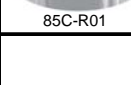
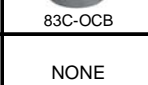









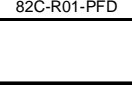
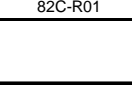
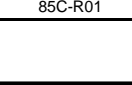
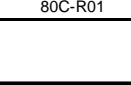
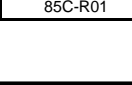
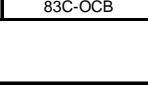
Parkrimp Tool Selection Chart – 2 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)						
				Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Minikrimp	Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Parkrimp 2
213	-20/-32	26	Silver  83C-Exx	-----	-----	-----	-----	-----	NONE REQUIRED
221FR	-5/-16	26	Silver  80C-Exx						
225	-4/-16	26	Silver  80C-Exx						
225	-20/-32	26	Silver  83C-Exx	-----	-----	-----	-----	-----	NONE REQUIRED
235	-16	26	Silver  80C-Exx						
244	-16	26	Silver  80C-Exx						
244	-20/-24	26	Silver  83C-Exx	-----	-----	-----	-----	-----	
266	-4/-16	26	Silver  80C-Exx						
266	-20/-24	26	Silver  83C-Exx	-----	-----	-----	-----	-----	
285	-4/-12	26	Silver  80C-Exx						
293	-4/-16	26	Silver  80C-Exx						
301	-4/-16	43	Silver  80C-Axx						
301	-20	43	Silver  80C-Axx	-----					
301	-24/-32	43	Silver  83C-Axx	-----	-----	-----	-----	-----	
301LT	-4/-16	43	Silver  80C-Axx						

(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING



Parkrimp Tool Selection Chart – 3 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)						
				Minikrimp	Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Parkrimp 2
				Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
304	-4/-16	43	Silver 						
304	-20	43	Silver 	-----					
304	-24/-32	43	Silver 	-----	-----	-----	-----	-----	
341	-6/-12	43	Silver 						
341	-16	43	Silver 	-----					
341	-20	43	Silver 	-----	-----		-----		
351TC / 351ST	-4/-12	43	Silver 						
381	-4/-16	43	Silver 						
381	-20	43	Silver 	-----					
381	-24/-32	43	Silver 	-----	-----	-----	-----	-----	
421/424 /426	-4/-16	43	Silver 						
421/424 /426	-20	43	Silver 	-----					
421/424 /426	-24/-32	43	Silver 	-----	-----	-----	-----	-----	NONE REQUIRED
421WC	-4/-16	43	Silver 						
451TC / 451ST	-4/-16	43	Silver 						

Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

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**G**

(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING



Parkrimp Tool Selection Chart – 4 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)	Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Minikrimp	Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Parkrimp 2
451TC / 451ST	-20	43	Silver 80C-Axx	-----	-----	85C-R01	-----	85C-R01	83C-OCB
431/436	-4/-16	43	Silver 80C-Axx	82C-R01-PFD	82C-R01	85C-R01	80C-R01	85C-R01	83C-OCB
471TC / 471ST	-4/-16	43	Silver 80C-Axx	82C-R01-PFD	82C-R01	85C-R01	80C-R01	85C-R01	83C-OCB
472TC	-20	43	Silver 80C-Axx	-----	82C-R01	85C-R01	80C-R01	85C-R01	83C-OCB
472TC	-24/-32	43	Silver 83C-Axx	-----	-----	-----	-----	-----	NONE REQUIRED
482TC / 482ST	-4/-16	43	Silver 80C-Axx	82C-R01-PFD	82C-R01	85C-R01	80C-R01	85C-R01	83C-OCB
601	-4/-16	43	Silver 80C-Axx	82C-R02-PFD	82C-R02	85C-R02	80C-R02	85C-R02	83C-R02 (1) / 83C-OCB
604	-6/-8/-16	43	Silver 80C-Axx	82C-R02-PFD	82C-R02	85C-R02	80C-R02	85C-R02	83C-R02 (1) / 83C-OCB
701	-6/-12	70	Black 83C-Dxx Small	-----	-----	85C-R02	-----	85C-R02	83C-R02 (1) / 83C-OCB
721	-6/-20	71	Black 83C-Dxx	-----	-----	85C-R01	-----	85C-R01	83C-OCB
721	-24/-32	71	Black 83C-Dxx	-----	-----	-----	-----	-----	NONE REQUIRED
721TC	-6/-20	71	Black 83C-Dxx	-----	-----	85C-R01	-----	85C-R01	83C-OCB
731	-12/-16	73	Olive Drab 80C-Lxx	-----	-----	85C-R01	-----	85C-R01	83C-OCB
731	-12/-32	73	Olive Drab 83C-Lxx	-----	-----	-----	-----	-----	NONE REQUIRED
774 772TC / 772ST	-6/-20	71	Black 83C-Dxx Small	-----	-----	85C-R01	-----	85C-R01	83C-OCB

(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING



A

B

C

D

E

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G

Hose

Fittings

Parkrimp Crimping Equipment















































Hose Assembly Equipment

Adapters

Accessories

Appendices

Parkrimp Tool Selection Chart – 5 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)						
				Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Minikrimp	Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Parkrimp 2
774 772TC / 772ST	-24/-32	71	Black 	-----	-----	-----	-----	-----	NONE REQUIRED
781	-12/-16	78	Olive Drab 	-----	-----		-----		
781	-12/-24	78	Olive Drab 	-----	-----	-----	-----	-----	NONE REQUIRED
782TC / 782ST	-10/-16	78	Olive Drab 	-----	-----		-----		
78C, 782TC / 782ST	-12/-32	78	Olive Drab 	-----	-----	-----	-----	-----	NONE REQUIRED
791TC, 792TC / 792ST	-12/-20	79	Olive Drab 	-----	-----	-----	-----	-----	NONE REQUIRED
881	-12/-16	43	Silver 						
881	-20	43	Silver 	-----					
881	-24/-32	43	Silver 	-----	-----	-----	-----	-----	
881 / 811	-12/-16	81	Silver 						
881 / 811	-20	81	Silver 	-----					
881 / 811	-24/-32	81	Silver 	-----	-----	-----	-----	-----	NONE REQUIRED

Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

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**E**

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(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING



Hose

A

Fittings

B

Parkrimp Crimping Equipment

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## MiniKrimp™

### For use with 26, 43, 81 and HY Series Fittings

With its cast aluminum design, the MiniKrimp is lightweight, portable, and compact. This all-in-one unit is capable of crimping hose sizes up to 1". Dies are sold separately.

#### Specifications:

<u>Dimensions</u>	6" wide, 13" deep, 15" high
<u>Weight</u>	42 lbs. with hand pump
<u>Rating</u>	30 tons force @ 10,000 psi maximum
<u>Capability</u>	-1" SAE 100R1 maximum
	-1" SAE 100R1AT maximum
	-1" SAE 100R2 maximum
	-1" SAE 100R2AT maximum
	-1" SAE 100R3 maximum
	-1" SAE 100R4 maximum
	-1" SAE100R5 maximum
	-3/4" SAE 100R9AT maximum
	-1" SAE 100R16 maximum
	-1" SAE 100R17 maximum
	-1" SAEJ1402 AI maximum
	-1" SAEJ1402 All maximum

Set up time 20 seconds  
Full cycle time 30 seconds with electric pump

**Note:** Cycle times vary depending on hose and fitting styles and sizes.

**Important:** The Minikrimp was developed by Parker Hannifin Parflex Division but is compatible with Parker Hannifin Hose Products Division products. The Minikrimp is only compatible with rubber hose with a size range of 3/16" ID through 1" ID and only those hoses that utilize 26, 43 and HY Series fittings. However there are two exceptions to these specifications: In reference to Minikrimp stainless steel crimping capabilities, please refer to CrimpSource on [www.parkerhose.com](http://www.parkerhose.com) (the online resource for hose crimp specifications for the complete line of Parker crimping machines). The Minikrimp **DOES NOT** crimp 341-16 (SAE 100R9, 1" ID) hose. Any engineering and crimper performance issues pertaining to the Minikrimp should be directed to the Parflex Division, Technical Services Department, at (330) 296-2871.

**Note:** Reference page C-12-13 for information on Hand Pump (82C-0HP and 85C-0HP), Electric Pump (82C-0EP and 85C-0EP), Air/Hydraulic Pump (82C-0AP) and Vehicle Battery-Powered Pump (85C-12V). For crimp instructions, see pages C-9.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

### Standard Equipment:

#### Model 94C-001-PFD includes:

• Minikrimp Portable Crimper (base unit)	94C-080-PFD
• Hand Pump	015301
• Die ring Cavity Color Coded Silver	82C-R01-PFD

#### Model 94C-002-PFD includes:

• Minikrimp Portable Crimper (base unit)	94C-080-PFD
• Air over Hydraulic Pump Kit (w/tubing & adapters)	025411
• Die ring Cavity Color Coded Silver	82C-R01-PFD

### Optional Tooling:

• Side Vise Mount	015736
• Upright Table Mount	015306
• Upright Vise Mount	015307
• Die ring Cavity Color Coded Black	82C-R02-PFD
• Connection Hose with Quick Coupling	015309
• Bent Tube for Hand Pump Only	015308
• Bent Tube for Air Over Hydraulic Pump Only	025349

#### 26 Series Dies (Silver)

• -4 (3/16") Cavity Color Coded Red	80C-E04
• -5 (1/4") Cavity Color Coded Purple	80C-E05
• -6 (5/16") Cavity Color Coded Yellow	80C-E06
• -8 (13/32") Cavity Color Coded Blue	80C-E08
• -10 (1/2") Cavity Color Coded Orange	80C-E10
• -12 (5/8") Cavity Color Coded Green	80C-E12
• -16 (7/8") Cavity Color Coded Black	80C-E16

#### 43 Series Dies (Silver)

• -4 (1/4") Cavity Color Coded Red	80C-A04
• -5 (5/16") Cavity Color Coded Purple	80C-A05
• -6 (3/8") Cavity Color Coded Yellow	80C-A06
• -8 (1/2") Cavity Color Coded Blue	80C-A08
• -10 (5/8") Cavity Color Coded Orange	80C-A10
• -12 (3/4") Cavity Color Coded Green	80C-A12
• -16 (1") Cavity Color Coded Black	80C-A16

#### 81 Series Dies (Silver)

• -12 (3/4") Cavity Color Coded Green	80C-V12
• -16 (1") Cavity Color Coded Black	80C-V16

#### HY Series Dies - AX Hose (Silver)

• -4 (1/4") Cavity Brown	80C-H585
• -6 (3/8") Cavity Brown	80C-H735
• -8 (1/2") Cavity Brown	80C-H840
• -10 (5/8") Cavity Brown	80C-H970
• -12 (3/4") Cavity Brown	80C-H1120

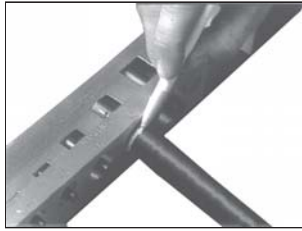
#### HY Series Dies - BXX Hose (Silver)

• -4 (1/4") Cavity Brown	80C-H605
• -6 (3/8") Cavity Brown	80C-H775
• -8 (1/2") Cavity Brown	80C-H885
• -10 (5/8") Cavity Brown	80C-H1010
• -12 (3/4") Cavity Brown	80C-H1170

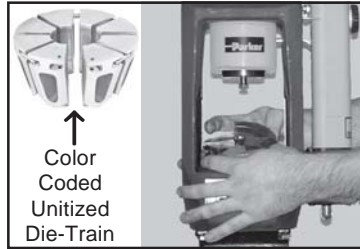
The Minikrimp™ is a product of Parker Hannifin Parflex Division.  
Phone: (330) 296-2871  
Fax: (330) 296-8433



### MiniKrimp Assembly Instructions for 26, 43, and HY Series Fittings



1. Mark the hose insertion depth and push hose into fitting until the mark on the hose is even with the end of the shell (lubricate hose, if necessary). Hose Insertion Depth table is on page C-26.



2. Place unitized die set into base plate.



3. Place proper die ring on top of the selected die.

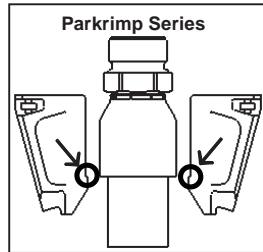


4. Slide pusher into place onto shoulder bolt.

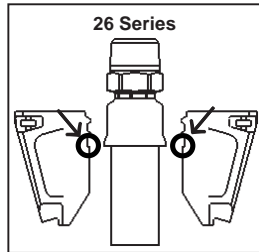
#### PARKALIGN® Feature



5. Position the hose and fitting in dies from below.



6. Rest bottom of coupling on die step using PARKALIGN® feature.



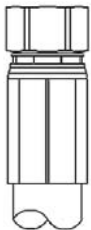
7. While holding hose and fitting into position on die step, begin pumping hand pump until die ring contacts base plate. Release pressure, remove finished assembly. Check crimp diameter.



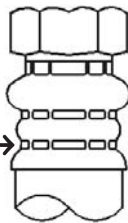
8a. Measure crimp diameter of each fitting at the top, middle and bottom of the shell. Take measurements at a minimum of three places around the shell circumference. Verify crimp diameter is within tolerances.

**Note:** For rubber based products reference step 8b and for thermoplastic products reference step 8a for crimp diameter measurement.

#### Standard Parkrimp Series



#### 26 Series



← Crimp Diameter →

8b. Measure crimp diameter on the flat surfaces of the crimped shell, referenced in the above illustration. Reference crimp diameter on page C-26.

**Important:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

**Important:** The Minikrimp was developed by Parker Hannifin Parflex Division but is compatible with Parker Hannifin Hose Products Division products. The Minikrimp is only compatible with rubber hose with a size range of 3/16" ID through 1" ID and only those hoses that utilize 26, 43 and HY Series fittings. However there are two exceptions to these specifications: The Minikrimp **DOES NOT** crimp any stainless steel fittings and **DOES NOT** crimp 341-16 (SAE 100R9, 1" ID) hose. Any engineering and crimper performance issues pertaining to the Minikrimp should be directed to the Parflex Division, Technical Services Department, at (330) 296-2871.

Hose	A
Fittings	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose  
A

Fittings  
B

Parkrimp Crimping Equipment  
C

Hose Assembly Equipment  
D

Adapters  
E

Accessories  
F

Appendices  
G



U.S. Patent No. 4,577,485

## Karrykrimp

For use with 26, 43, 81 and HY Series Fittings

The Karrykrimp is engineered for optimum durability, has a pivoting pusher which makes die changing easy and has an ergonomically designed handle for a comfortable grip. The Karrykrimp gives you everything you need to crimp hoses from 1/4" to 1-1/4". In one convenient package, Model 82C-001, includes crimping machine, take-apart stand, hand pump, die rings, connection hose with quick coupling and die sets for 1/4", 3/8", 1/2", 3/4" and 1" hoses. (Die sets for 5/16", 5/8" and 1-1/4" hoses are available.) Karrykrimp has the same crimping capabilities as the Parkrimp 1, Model 80C-001.

### Specifications:

Dimensions	15" wide, 12" deep, 27" high
Weight	53-1/2 lbs. without power unit
Rating	30 tons force @ 10,000 psi maximum
Capability	-1-1/4" SAE 100R1AT maximum
	-1" DIN 20 022-1SN maximum
	-1-1/4" SAE 100R2AT maximum
	-1-1/4" DIN 20 022-2SN maximum
	-1" SAE 100R3 maximum
	-1-1/4" SAE 100R4 maximum
	-7/8" SAE100R5 maximum
	-1" SAE 100R9AT maximum
	-1" SAE 100R16 maximum
	-1" SAE 100R17 maximum
	-7/8" SAEJ1402 AI maximum
	-7/8" SAEJ1402 All maximum

Set up time 20 seconds  
Full cycle time 30 seconds with electric pump

**Note:** Cycle times vary depending on hose and fitting styles and sizes.  
**Note:** **DO NOT** use this machine to assemble 341-20, 451TC-20 hose or any size stainless steel fitting.

### Standard Equipment:

- Model 82C-001 includes:**
- Karrykrimp Portable Crimper (base unit) 82C-080
  - 2 Piece Stand 832021
  - Hand Pump 82C-0HP
  - Connection Hose with Quick Coupling 82C-00L
  - Die ring Cavity Color Coded Silver 82C-R01
  - Die ring Cavity Color Coded Black 82C-R02
- 43 Series Dies (Silver)**
- -4 (1/4") Cavity Color Coded Red 80C-A04
  - -6 (3/8") Cavity Color Coded Yellow 80C-A06
  - -8 (1/2") Cavity Color Coded Blue 80C-A08
  - -12 (3/4") Cavity Color Coded Green 80C-A12
  - -16 (1") Cavity Color Coded Black 80C-A16
- Model 82C-002 includes:**
- Same as 82C-001 less hand pump.
- Model 82C-061 includes:**
- Karrykrimp Portable Crimper (base unit) 82C-080
  - 2 Piece Stand 832021
  - Die ring Cavity Color Coded Silver 82C-R01
  - Die ring Cavity Color Coded Black 82C-R02
  - Connection hose with Quick Coupling 82C-00L
  - No Pump
  - No Dies
- Model 82C-080 includes:**
- Karrykrimp Portable Crimper (base unit) 82C-080
  - No Dies, Die Rings, Pumps or Connection Hose

### Optional Tooling:

- 26 Series Dies (Silver)**
- -4 (3/16") Cavity Color Coded Red 80C-E04
  - -5 (1/4") Cavity Color Coded Purple 80C-E05
  - -6 (5/16") Cavity Color Coded Yellow 80C-E06
  - -8 (13/32") Cavity Color Coded Blue 80C-E08
  - -10 (1/2") Cavity Color Coded Orange 80C-E10
  - -12 (5/8") Cavity Color Coded Green 80C-E12
  - -16 (7/8") Cavity Color Coded Black 80C-E16
- 43 Series Dies (Silver)**
- -4 (1/4") Cavity Color Coded Red 80C-A04
  - -5 (5/16") Cavity Color Coded Purple 80C-A05
  - -6 (3/8") Cavity Color Coded Yellow 80C-A06
  - -8 (1/2") Cavity Color Coded Blue 80C-A08
  - -10 (5/8") Cavity Color Coded Orange 80C-A10
  - -12 (3/4") Cavity Color Coded Green 80C-A12
  - -16 (1") Cavity Color Coded Black 80C-A16
  - -20 (1-1/4") Cavity Color Coded White 80C-A20
- 81 Series Dies (Silver)**
- -12 (3/4") Cavity Color Coded Green 80C-V12
  - -16 (1") Cavity Color Coded Black 80C-V16
  - -20 (1-1/4") Cavity Color Coded White 80C-V20
- HY Series Dies - AX Hose (Silver)**
- -4 (1/4") Cavity Brown 80C-H585
  - -6 (3/8") Cavity Brown 80C-H735
  - -8 (1/2") Cavity Brown 80C-H840
  - -10 (5/8") Cavity Brown 80C-H970
  - -12 (3/4") Cavity Brown 80C-H1120
- HY Series Dies - BXX Hose (Silver)**
- -4 (1/4") Cavity Brown 80C-H605
  - -6 (3/8") Cavity Brown 80C-H775
  - -8 (1/2") Cavity Brown 80C-H885
  - -10 (5/8") Cavity Brown 80C-H1010
  - -12 (3/4") Cavity Brown 80C-H1170

**Note:** Reference page C-12-13 for information on Hand Pump (82C-0HP and 85C-0HP), Electric Pump (82C-0EP and 85C-0EP), Air/Hydraulic Pump (82C-0AP) and Vehicle Battery-Powered Pump (85C-12V). For crimp instructions, see pages C-17.  
**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.  
**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.





## Karrykrimp 2

For use with 26, 43, 70, 71, 73, 78, 81 and HY Series Fittings

Karrykrimp 2 is portable, compact and ruggedly built. The Karrykrimp 2 gives you everything you need to crimp hoses from 1/4" to 1-1/4" (through 4 spiral, SAE 100R12) and from 3/4" to 1" (through 6 spiral, SAE 100R13). In one convenient package, Model 85C-061 includes crimping machine, take-apart stand, die rings, and connection hose with quick coupling. Select the power unit and dies that meet your needs.

### Specifications:

<u>Dimensions</u>	14" wide, 15" deep, 30" high
<u>Weight</u>	100 lbs. without power unit
<u>Rating</u>	60 tons force @ 10,000 psi maximum
<u>Capability</u>	- 1-1/4" SAE 100R1AT maximum
	- 1" DIN 20 022-1SN maximum
	- 1-1/4" SAE 100R2AT maximum
	- 1-1/4" DIN 20 022-2SN maximum
	- 1" SAE 100R3 maximum
	- 1-1/4" SAE 100R4 maximum
	- 7/8" SAE100R5 maximum
	- 7/8" SAEJ1402 AI maximum
	- 7/8" SAEJ1402 All maximum
	- 1-1/4" SAE 100R9AT maximum
	- 1-1/4" SAE 100R12 maximum
	- 1" SAE 100R13 maximum
	- 1" SAE 100R16 maximum
	- 1-1/4" SAE 100R17 maximum
<u>Set up Time</u>	- 20 seconds

**Note:** Cycle times vary depending on hose and fitting styles and sizes.

### Standard Equipment:

#### Model 85C-061 includes:

• Karrykrimp 2 Portable Crimper (base unit)	85C-080
• Die ring Color Coded Silver	85C-R01
• Die ring Color Coded Black	85C-R02
• Connection hose with Quick Coupling	82C-00L
• Stand (2 piece)	832021
• No Dies or Pumps	

**Model 85C-KDA (Die Kit) Includes:** 43 Series -4, -6, -8, -12, -16, and -20 dies and 70/71 Series -6, -8, -12, -16, and -20 dies **ONLY**.

### Optional Tooling:

#### 26 Series Dies (Silver)

• -4 (3/16")	Cavity Color Coded Red	80C-E04
• -5 (1/4")	Cavity Color Coded Purple	80C-E05
• -6 (5/16")	Cavity Color Coded Yellow	80C-E06
• -8 (13/32")	Cavity Color Coded Blue	80C-E08
• -10 (1/2")	Cavity Color Coded Orange	80C-E10
• -12 (5/8")	Cavity Color Coded Green	80C-E12
• -16 (7/8")	Cavity Color Coded Black	80C-E16

#### 43 Series Dies (Silver)

• -4 (1/4")	Cavity Color Coded Red	80C-A04
• -5 (5/16")	Cavity Color Coded Purple	80C-A05
• -6 (3/8")	Cavity Color Coded Yellow	80C-A06
• -8 (1/2")	Cavity Color Coded Blue	80C-A08
• -12 (3/4")	Cavity Color Coded Green	80C-A12
• -16 (1")	Cavity Color Coded Black	80C-A16
• -20 (1-1/4")	Cavity Color Coded White	80C-A20

#### 70 and 71 Series Dies (Black)

• -6 (3/8")	Cavity Color Coded Yellow	83C-D06
• -8 (1/2")	Cavity Color Coded Blue	83C-D08
• -10 (5/8")	Cavity Color Coded Orange	83C-D10
• -12 (3/4")	Cavity Color Coded Green	83C-D12
• -16 (1")	Cavity Color Coded Black	83C-D16
• -20 (1-1/4")	Cavity Color Coded White	83C-D20

#### 73 and 78 Series Dies (Olive Drab)

• -12 (3/4")	Cavity Color Coded Green	80C-L12
• -16 (1")	Cavity Color Coded Black	80C-L16

#### 81 Series Dies (Silver)

• -12 (3/4")	Cavity Color Coded Green	80C-V12
• -16 (1")	Cavity Color Coded Black	80C-V16
• -20 (1-1/4")	Cavity Color Coded White	80C-V20

#### HY Series Dies - AX Hose (Silver)

• -4 (1/4")	Cavity Brown	80C-H585
• -6 (3/8")	Cavity Brown	80C-H735
• -8 (1/2")	Cavity Brown	80C-H840
• -10 (5/8")	Cavity Brown	80C-H970
• -12 (3/4")	Cavity Brown	80C-H1120
• -16 (1")	Cavity Brown	80C-H1365

#### HY Series Dies - BXX Hose (Silver)

• -4 (1/4")	Cavity Brown	80C-H605
• -6 (3/8")	Cavity Brown	80C-H775
• -8 (1/2")	Cavity Brown	80C-H885
• -10 (5/8")	Cavity Brown	80C-H1010
• -12 (3/4")	Cavity Brown	80C-H1170
• -16 (1")	Cavity Brown	80C-H1465

**Note:** Reference page C-12-13 for information on Hand Pump (82C-0HP and 85C-0HP), Electric Pump (82C-0EP and 85C-0EP), Air/Hydraulic Pump (82C-0AP) and Vehicle Battery-Powered Pump (85C-12V). For crimp instructions, see pages C-17.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.





Hose

**A**



### Hand Pump

**Part No. 82C-0HP**

*(for use with Minikrimp and Karrykrimp)*

Ease of operation hand pump delivers 10,000 psi.

Length	-	22-11/16"
Width	-	3-1/4"
Height	-	4-11/16"
Port size	-	3/8" NPTF
Weight	-	9 lb
Hydraulic Fluid	-	Enerpac Oil

Fittings

**B**



### Hand Pump

**Part No. 85C-0HP**

*(for use with Minikrimp, Karrykrimp and Karrykrimp 2)*

Ease of operation hand pump delivers 10,000 psi.

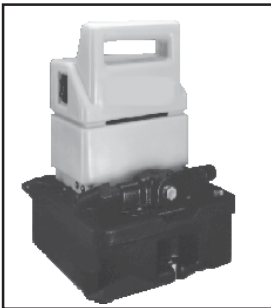
Length	-	28-15/16"
Width	-	12-1/8"
Height	-	11"
Port Size	-	3/8" NPTF
Weight	-	61 lb
Hydraulic Fluid	-	Enerpac Oil

Parkrimp Crimping Equipment

**C**

Hose Assembly Equipment

**D**



### Electric Pump

**Part No. 82C-0EP**

*(for use with Minikrimp, Karrykrimp and Karrykrimp 2)*

Heavy duty electric pump delivers 10,000 psi.

Length	-	12-1/8"
Width	-	12-5/8"
Height	-	15"
Port Size	-	3/8" NPTF.
Weight	-	31 lb
Hydraulic Fluid	-	Enerpac Oil

115 volt, 1 phase, 60 hertz, 9 amp

Adapters

**E**



### Electric Pump

**Part No. 85C-0EP**

*(for use with Minikrimp, Karrykrimp and Karrykrimp 2)*

Heavy duty electric pump delivers 10,000 psi at a faster cycle time.

Length	-	14-1/8"
Width	-	9-1/2"
Height	-	22-3/4"
Port Size	-	3/8" NPTF
Weight	-	54 lb
Hydraulic Fluid	-	Enerpac Oil

115 volt, 1 phase, 60 hertz, 25 amp

Accessories

**F**

Appendices

**G**

(continued)



### Air/Hydraulic Pump

Part No. 82C-0AP

**(for use with Minikrimp, Karrykrimp and Karrykrimp 2)**

Lightweight pump operates with 80-120 psi shop air pressure and delivers 10,000 psi.

Length	-	14-3/4"
Width	-	5-5/8"
Height	-	5-3/4"
Weight	-	14lb
Intake Port Size	-	1/4" NPTF
Output Port Size	-	3/8" NPTF
Hydraulic Fluid	-	Enerpac Oil

## ENERPAC WARRANTY POLICY

**For those ENERPAC items sold as part of the Parker Hose Products offering, the following warranty applies.**

ENERPAC products are warranted to be free of defects in materials and workmanship under normal use for as long as they are owned by the original user for as long as they are owned by the original purchaser, subject to the exclusions and limitations described below. This warranty does not cover ordinary wear and tear, overloading, alterations, (including repairs or attempted repairs by parties other than ENERPAC or its authorized service representatives), improper fluid, use in a manner for which they are not intended or use which is contrary to instructions for the products.

THIS WARRANTY IS LIMITED TO NEW PRODUCTS SOLD THROUGH ENERPAC AUTHORIZED DISTRIBUTORS, ORIGINAL EQUIPMENT MANUFACTURERS OR OTHER DESIGNATED CHANNELS OF DISTRIBUTION. NO AGENT, EMPLOYEE, OR OTHER REPRESENTATIVE OF ENERPAC HAS THE AUTHORITY TO IN ANY WAY CHANGE OR AMEND THIS WARRANTY.

Electronic products and components are warranted against defects in material and workmanship for a period of two years from the date of purchase.

The following items supplied with ENERPAC products are excluded from this warranty:

- Components not manufactured by ENERPAC, including air motors, electric motors, gasoline engines, and diesel engines. Such items are warranted to the extent of the warranty provided by the manufacturers of such items.

If the customer believes a product is defective, the product must be delivered, or shipped freight prepaid, to the nearest ENERPAC Authorized Service Center. The customer should contact ENERPAC to locate an Authorized Service Center in the customer's area. Products that do not conform to this warranty will be repaired or replaced at ENERPAC's expense and returned by ground transportation, freight prepaid.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy of repair, replacement or refund is customer's exclusive remedy in the event of breach of this warranty.

SELLER SHALL NOT BE SUBJECT TO AND DISCLAIMS:

- ANY OTHER OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY,
- ANY OBLIGATIONS WHATSOEVER ARISING FROM TORT CLAIMS (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER THEORIES OF LAW WITH RESPECT TO PRODUCTS SOLD OR SERVICES RENDERED BY SELLER OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO, AND
- ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.

ENERPAC's liability in all cases is limited to, and shall not exceed, the purchase price paid.

For the nearest authorized ENERPAC SERVICE CENTER, please call ENERPAC at 800.558.0530 or visit the ENERPAC WEBSITE [www.Enerpac.com](http://www.Enerpac.com)

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Hose

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## Vehicle Battery-Powered Pump

Part No. 85C-12V

*(for use with Minikrimp, Karrykrimp and Karrykrimp 2)*

Ideal unit for Parker Mobile Hose Replacement Service.  
Delivers 10,000psi.

Length - 9-1/2"

Width - 11-1/2"

Height - 19-1/2"

Weight - 79lb

12 volt pump

Hydraulic Fluid

- ISO-32 (150 SUS) Less than 50° F

- ISO-46 (215 SUS) Normal Conditions

- ISO-68 (315 SUS) Greater than 85° F



U.S. Patent No. 4,309,892 and 4,577,485

## Parkrimp 1

For use with 26, 43, 81 and HY Series Fittings

The Parkrimp 1, Model 80C-101, gives you everything you need to crimp hoses from 1/4" to 1-1/4" in one convenient package. It includes crimping machine, electric pump, die rings, die sets for 1/4", 3/8", 1/2", 3/4" and 1" hoses. (Die sets for 5/16", 5/8" and 1-1/4" hoses are available.)

All you need to be in business is a small inventory of Parker No-Skive hose and Parker Parkrimp No-Skive fittings.

### Specifications

<b>Dimensions</b>	26" (661mm) wide, 19-1/2" (495mm) deep, 24-1/4" (616mm) high
<b>Weight</b>	275 lbs. with power unit
<b>Rating</b>	30 tons force @ 3,000 psi maximum
<b>Capability</b>	-1-1/4" SAE 100R1AT maximum -1-1/4" DIN 20 022-1SN maximum -1-1/4" SAE 100R2AT maximum -1-1/4" DIN 20 022-2SN maximum -1" SAE 100R3 maximum -1-1/4" SAE 100R4 maximum -7/8" SAE100R5 maximum -1" SAE 100R9AT maximum -1" SAE 100R16 maximum -1" SAE 100R16 maximum -1" SAE 100R17 maximum -7/8" SAEJ1402 AI maximum -7/8" SAEJ1402 All maximum
<b>Set up time</b>	20 seconds
<b>Full cycle time</b>	20 seconds
<b>Hydraulic Fluid</b>	AW32

**Note:** Cycle times vary depending on hose and fitting styles and sizes.

**Note:** **DO NOT** use this machine to assemble 341-20, 451TC-20 hose or any size stainless steel fitting.

### Standard Equipment:

#### Model 80C-101 includes:

- Parkrimp 1 Crimper with 115/230 volt, 1 phase, 60 hertz power unit wired for 115V. **Note:** Must run on a dedicated 20 AMP circuit.
- Die ring Cavity Color Coded Silver 80C-R01
- Die ring Cavity Color Coded Black 80C-R02
- 43 Series Dies (Silver)
  - -4 (1/4") Cavity Color Coded Red 80C-A04
  - -6 (3/8") Cavity Color Coded Yellow 80C-A06
  - -8 (1/2") Cavity Color Coded Blue 80C-A08
  - -12 (3/4") Cavity Color Coded Green 80C-A12
  - -16 (1") Cavity Color Coded Black 80C-A16

#### Model 80C-061 includes:

- Parkrimp 1 Crimper 80C-081
- Die ring Color Coded Silver 80C-R01
- Die ring Color Coded Black 80C-R02
- No Dies - Order separately from list below

#### Model 80C-181 includes:

- Parkrimp 1 Crimper 80C-080
- 115/230 volt, 1 phase, 60 Hz power unit wired for 115V 80C-115
- No Die Rings
- No Dies - Order separately from list below

### Optional Tooling:

#### 26 Series Dies (Silver)

- -4 (3/16") Cavity Color Coded Red 80C-E04
- -5 (1/4") Cavity Color Coded Purple 80C-E05
- -6 (5/16") Cavity Color Coded Yellow 80C-E06
- -8 (13/32") Cavity Color Coded Blue 80C-E08
- -10 (1/2") Cavity Color Coded Orange 80C-E10
- -12 (5/8") Cavity Color Coded Green 80C-E12
- -16 (7/8") Cavity Color Coded Black 80C-E16

#### 43 Series Dies (Silver)

- -4 (1/4") Cavity Color Coded Red 80C-A04
- -5 (5/16") Cavity Color Coded Purple 80C-A05
- -6 (3/8") Cavity Color Coded Yellow 80C-A06
- -8 (1/2") Cavity Color Coded Blue 80C-A08
- -10 (5/8") Cavity Color Coded Orange 80C-A10
- -12 (3/4") Cavity Color Coded Green 80C-A12
- -16 (1") Cavity Color Coded Black 80C-A16
- -20 (1-1/4") Cavity Color Coded White 80C-A20

#### 81 Series Dies (Silver)

- -12 (3/4") Cavity Color Coded Green 80C-V12
- -16 (1") Cavity Color Coded Black 80C-V16
- -20 (1-1/4") Cavity Color Coded White 80C-V20

#### HY Series Dies - AX Hose (Silver)

- -4 (1/4") Cavity Brown 80C-H585
- -6 (3/8") Cavity Brown 80C-H735
- -8 (1/2") Cavity Brown 80C-H840
- -10 (5/8") Cavity Brown 80C-H970
- -12 (3/4") Cavity Brown 80C-H1120

#### HY Series Dies - BXX Hose (Silver)

- -4 (1/4") Cavity Brown 80C-H605
- -6 (3/8") Cavity Brown 80C-H775
- -8 (1/2") Cavity Brown 80C-H885
- -10 (5/8") Cavity Brown 80C-H1010
- -12 (3/4") Cavity Brown 80C-H1170

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



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## PHastkrimp

### For use with 26, 43, 70, 71, 73, 78, 81 and HY Series Fittings

Only Parker offers a No-Skive system for crimping SAE100R12 through 1-1/4" and SAE100R13 six spiral through 1" inch. PHastkrimp is the fastest cycling benchmounted crimper available.

### Specifications

<u>Dimensions</u>	22" wide, 33" deep, 37-1/2" high
<u>Weight</u>	550 lbs.
<u>Rating</u>	60 tons @ 4200psi
<u>Capability</u>	- 1-1/4" SAE 100R1AT maximum
	- 1" DIN 20 022-1SN maximum
	- 1-1/4" SAE 100R2AT maximum
	- 1-1/4" DIN 20 022-2SN maximum
	- 1" SAE 100R3 maximum
	- 1-1/4" SAE 100R4 maximum
	- 7/8" SAE100R5 maximum
	- 7/8" SAEJ1402 AI maximum
	- 7/8" SAEJ1402 All maximum
	- 1-1/4" SAE 100R9AT maximum
	- 1-1/4" SAE 100R12 maximum
	- 1" SAE 100R13 maximum
	- 1" SAE 100R16 maximum
	- 1-1/4" SAE 100R17 maximum

<u>Set up time</u>	20 seconds
<u>Full cycle time</u>	6 seconds

**Note:** Cycle times vary depending on hose and fitting styles and sizes.

Hydraulic Oil      AW32 oil

### Standard Equipment:

**Model 89C-061 includes:** PHastkrimp crimper with 230VAC, 3 phase, 60 Hz power unit wired for 230 volts. (Can be rewired to 460VAC by qualified electrician.)

- Die Ring Silver      85C-R01
- Die Ring Black      85C-R02
- No Dies - Order separately from list below

**Model 89C-062 includes:** PHastkrimp crimper with 230VAC, 1 phase, 60 Hz power unit wired for 230 volts.

- Die Ring Silver      85C-R01
- Die Ring Black      85C-R02
- No Dies - Order separately from list below

### Optional Tooling:

#### 26 Series Dies (Silver)

- -4 (3/16")      Cavity Color Coded Red      80C-E04
- -5 (1/4")      Cavity Color Coded Purple      80C-E05
- -6 (5/16")      Cavity Color Coded Yellow      80C-E06
- -8 (13/32")      Cavity Color Coded Blue      80C-E08
- -10 (1/2")      Cavity Color Coded Orange      80C-E10
- -12 (5/8")      Cavity Color Coded Green      80C-E12
- -16 (7/8")      Cavity Color Coded Black      80C-E16

#### 43 Series Dies (Silver)

- -4 (1/4")      Cavity Color Coded Red      80C-A04
- -5 (5/16")      Cavity Color Coded Purple      80C-A05
- -6 (3/8")      Cavity Color Coded Yellow      80C-A06
- -8 (1/2")      Cavity Color Coded Blue      80C-A08
- -10 (5/8")      Cavity Color Coded Orange      80C-A10
- -12 (3/4")      Cavity Color Coded Green      80C-A12
- -16 (1")      Cavity Color Coded Black      80C-A16
- -20 (1-1/4")      Cavity Color Coded White      80C-A20

#### 70 and 71 Series Dies (Black)

- -6 (3/8")      Cavity Color Coded Yellow      83C-D06
- -8 (1/2")      Cavity Color Coded Blue      83C-D08
- -10 (5/8")      Cavity Color Coded Orange      83C-D10
- -12 (3/4")      Cavity Color Coded Green      83C-D12
- -16 (1")      Cavity Color Coded Black      83C-D16
- -20 (1-1/4")      Cavity Color Coded White      83C-D20

#### 73 and 78 Series Dies (Olive Drab)

- -12 (3/4")      Cavity Color Coded Green      80C-L12
- -16 (1")      Cavity Color Coded Black      80C-L16

#### 81 Series Dies (Silver)

- -12 (3/4")      Cavity Color Coded Green      80C-V12
- -16 (1")      Cavity Color Coded Black      80C-V16
- -20 (1-1/4")      Cavity Color Coded White      80C-V20

#### HY Series Dies - AX Hose (Silver)

- -4 (1/4")      Cavity Brown      80C-H585
- -6 (3/8")      Cavity Brown      80C-H735
- -8 (1/2")      Cavity Brown      80C-H840
- -10 (5/8")      Cavity Brown      80C-H970
- -12 (3/4")      Cavity Brown      80C-H1120
- -16 (1")      Cavity Brown      80C-H1365

#### HY Series Dies - BXX Hose (Silver)

- -4 (1/4")      Cavity Brown      80C-H605
- -6 (3/8")      Cavity Brown      80C-H775
- -8 (1/2")      Cavity Brown      80C-H885
- -10 (5/8")      Cavity Brown      80C-H1010
- -12 (3/4")      Cavity Brown      80C-H1170
- -16 (1")      Cavity Brown      80C-H1465

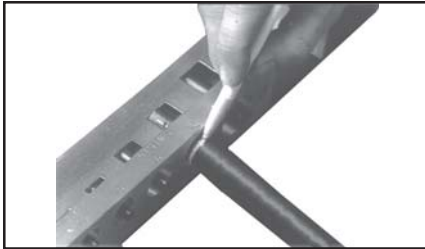
**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



# Karrykrimp, Karrykrimp 2, Parkrimp 1, and PHastkrimp General Assembly Instructions

NOTE: See Technical Manual and Video supplied with each machine for specific operating instructions.



Mark the hose insertion depth and push hose into fitting until the mark on the hose is even with the end of the shell (lubricate hose, if necessary, however, do not lubricate any spiral hose). Hose Insertion Depth table is on page C-26.



Place 81 Series Shell onto end of hose and make sure the end of the shell lines up with the Insertion Depth mark. See chart on page C-26 for Insertion Depths.



Push hose onto the 88 Series fitting until the shell in Step 1a bottoms against the fitting's stop ring or hex. Lubricate hose if necessary.

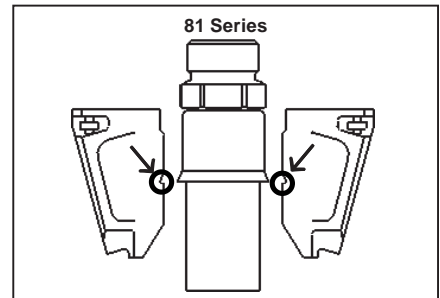
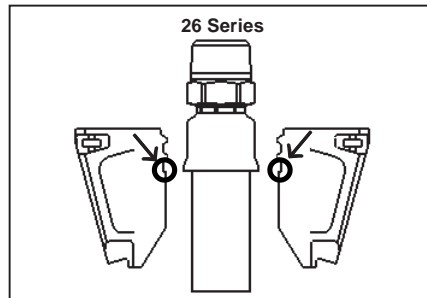
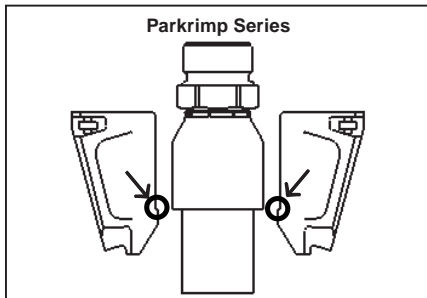


↑  
Color Coded Unitized Die-Train

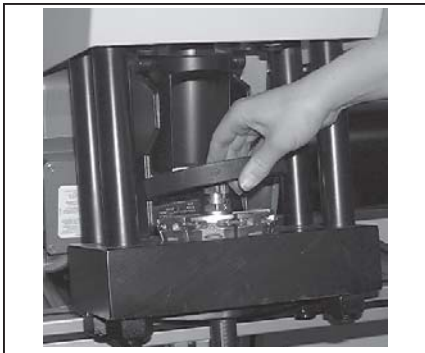


Pull pin at the top of pusher to swing it back. **Note:** Parkrimp 1 does not have a pin at the top of the pusher. Place unitized die-train into base plate. See decal on crimping machine for proper die set. Position the hose and fitting in dies from below. **Important:** The die bowl for the Crimping Machines should be lubricated using a premium quality lithium base grease.

## PARKALIGN® Feature



Rest bottom of coupling on die step using PARKALIGN® feature.



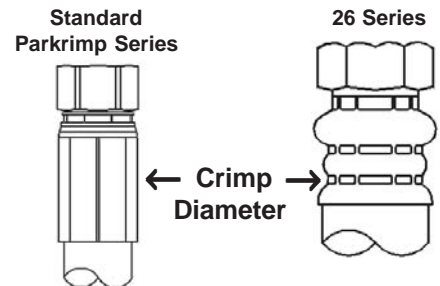
Place correct die ring on top of the dies. See decal on crimping machine for proper die ring.



Position pusher, replace pin and operate pump until the pump bottoms out. Release pressure within the pump — remove finished assembly.

**Note:** Karrykrimp & Karrykrimp 2 have several types of pumps, all of which are separate units from the actual crimping machine.

**Note:** Parkrimp 1 does not have a pin at the top of pusher.



Measure crimp diameter on the flat surfaces of the crimped shell, referenced in the above illustration. Reference crimp diameter on page C-26.

**Important:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimping machine that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimping machine.

Hose  
A

Fittings  
B

Parkrimp Crimping Equipment  
C

Hose Assembly Equipment  
D

Adapters  
E

Accessories  
F

Appendices  
G

U.S. Patent No. 4,527,414 and 4,577,485



## Parkrimp 2

For use with 26, 43, 70, 71, 73, 78, 79, 81 and HY Series Fittings

Only Parker offers a No-Skive system for SAE100R13 spiral hose up to 2" in diameter and SAE100R15 spiral hose up to 1-1/4" in diameter.

### Specifications:

<u>Dimensions</u>	28" wide, 22" deep, 70" high
<u>Weight</u>	Head-558 lbs., Base-284 lbs., Total-843 lbs.
<u>Rating</u>	125 tons force @ 5,000 psi maximum
<u>Capability</u>	- 2" SAE 100R1AT maximum - 2" SAE 100R2AT maximum - 1" SAE 100R3 maximum - 2" SAE 100R4 maximum - 1-13/16" SAE100R5 maximum - 1-13/16" SAEJ1402 Al maximum - 1-13/16" SAEJ1402 All maximum - 1-1/4" SAE 100R9AT maximum - 2" SAE 100R12 maximum - 2" SAE 100R13 maximum - 1-1/4" SAE100R15 maximum - 1" SAE 100R16 maximum - 1-1/4" SAE100R17 maximum - All stainless steel fittings

<u>Set up time</u>	30 seconds
<u>Full cycle time</u>	30 seconds without adapter bowl 20 seconds with adapter bowl

**Note:** Cycle times vary depending on hose and fitting styles and sizes.

Hydraulic Oil Enerpac Oil

**Note:** \*83C-A16H, 83C-A20H, 83C-D16H, and 83C-D20H are used with jump size fittings and certain metric fittings to permit insertion and removal of fittings.  
**Note:** The 83C-R02H Spacer Plate must be used when using the 83C-A16H, 83C-A24, 83C-A20H or 83C-A32 to crimp SAE 100R2 and 100R4 hose.

### Standard Equipment:

**Model 83C-001 includes:**

• Parkrimp 2 Crimper Head Assembly	83C-080
• Parkrimp 2 Stand Assembly with 230/460 volt, 3 phase, 50/60 Hz power unit (wired for 230 volt)	83C-S40
• Adapter Bowl	83C-OCB
• Spacer Ring	83C-R02
• Die Kit	83C-KDA

**Model 83C-081 includes:** • Model 83C-001 less dies

**Model 83C-002 includes:**

• Parkrimp 2 Crimper Head Assembly	83C-080
• Parkrimp 2 Stand Assembly with 230 Volt, 1 Phase, 60Hz power unit	83C-S20
• Adapter Bowl	83C-OCB
• Spacer Ring	83C-R02
• Die Kit	83C-KDA

**Model 83C-082 includes:** • Model 83C-002 less dies

**Model 83C-KDA (Die Kit) Includes:** 43 Series -4, -6, -8, -12, -16, and -20 dies and 70/71 Series -6, -8, -12, -16, -20, -24 and -32 dies **ONLY**.

### Optional Tooling:

• Spacer Plate	83C-R02H
----------------	----------

#### 26 Series Dies (Silver)

• -4 (3/16")	Cavity Color Coded Red	80C-E04
• -5 (1/4")	Cavity Color Coded Purple	80C-E05
• -6 (5/16")	Cavity Color Coded Yellow	80C-E06
• -8 (13/32")	Cavity Color Coded Blue	80C-E08
• -10 (1/2")	Cavity Color Coded Orange	80C-E10
• -12 (5/8")	Cavity Color Coded Green	80C-E12
• -16 (7/8")	Cavity Color Coded Black	80C-E16
• -20 (1-1/8")	Cavity Color Coded White	83C-E20
• -24 (1-3/8")	Cavity Color Coded Red	83C-E24
• -32 (1-13/16")	Cavity Color Coded Green	83C-E32

#### 43 Series Dies (Silver)

• -4 (1/4")	Cavity Color Coded Red	80C-A04
• -5 (5/16")	Cavity Color Coded Purple	80C-A05
• -6 (3/8")	Cavity Color Coded Yellow	80C-A06
• -8 (1/2")	Cavity Color Coded Blue	80C-A08
• -10 (5/8")	Cavity Color Coded Orange	80C-A10
• -12 (3/4")	Cavity Color Coded Green	80C-A12
• -16 (1")	Cavity Color Coded Black	80C-A16
• -16 (1")	Cavity Color Coded Black	83C-A16H*
• -20 (1-1/4")	Cavity Color Coded White	80C-A20
• -20 (1-1/4")	Cavity Color Coded White	83C-A20H*
• -24 (1-1/2")	Cavity Color Coded Red	83C-A24
• -32 (2")	Cavity Color Coded Green	83C-A32

#### 70 and 71 Series Dies (Black)

• -6 (3/8")	Cavity Color Coded Yellow	83C-D06
• -8 (1/2")	Cavity Color Coded Blue	83C-D08
• -10 (5/8")	Cavity Color Coded Orange	83C-D10
• -12 (3/4")	Cavity Color Coded Green	83C-D12
• -16 (1")	Cavity Color Coded Black	83C-D16
• -16 (1")	Cavity Color Coded Black	83C-D16H*
• -20 (1-1/4")	Cavity Color Coded White	83C-D20
• -20 (1-1/4")	Cavity Color Coded White	83C-D20H*
• -24 (1-1/2")	Cavity Color Coded Red	83C-D24
• -32 (2")	Cavity Color Coded Green	83C-D32

#### 73 and 78 Series Dies (Olive Drab)

• -12 (3/4")	Cavity Color Coded Green	83C-L12
• -16 (1")	Cavity Color Coded Black	83C-L16
• -20 (1-1/4")	Cavity Color Coded White	83C-L20
• -24 (1-1/2")	Cavity Color Coded Red	83C-L24
• -32 (2")	Cavity Color Coded Green	83C-L32

#### 79 Series Dies (Olive Drab)

• -12 (3/4")	Cavity Color Coded Green	83C-L12
• -16 (1")	Cavity Color Coded Black	83C-L16
• -20 (1-1/4")	Cavity Color Coded White	83C-L20

#### 81 Series Dies (Silver)

• -12	Cavity Color Coded	80C-V12
• -16	Cavity Color Coded	80C-V16
• -20	Cavity Color Coded	80C-V20
• -24	Cavity Color Coded	83C-V24
• -32	Cavity Color Coded	83C-V32

**Note:** For HY Series Die information, reference Phastkrimp Crimping Equipment page.

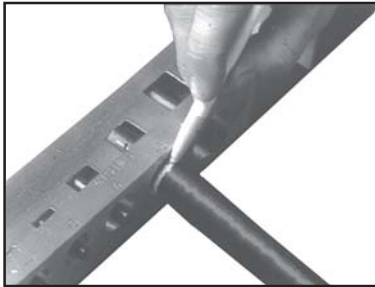
**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.  
**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



## Parkrimp 2 Assembly Instructions

### Crimping Instructions when the Adapter Bowl IS required.

NOTE: See Technical Manual and Video supplied with each machine for specific operating instructions.



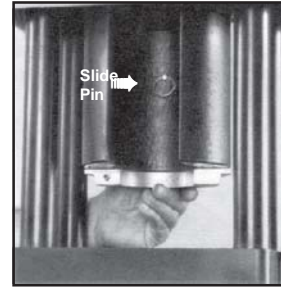
1. Mark the hose insertion depth and push hose into fitting until the mark on the hose is even with the end of the shell (**DO NOT use any lubricant to assemble spiral hose and fittings**). Hose Insertion Depth table is on page C-26.



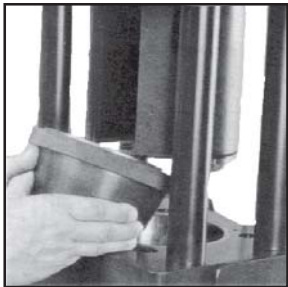
1a. Place 81 Series Shell onto end of hose and make sure the end of the shell lines up with the Insertion Depth mark. See chart on page C-26 for Insertion Depths.



1b. Push hose onto the 88 Series fitting until the shell in Step 1a bottoms against the fitting's stop ring or hex. Lubricate hose if necessary.



2. With the pusher in the full up position, lift the back half of the split die ring. Lock it in the up position by pushing the slide pin in. (The slide pin is located inside the pusher at the back.)



3. Lubricate Die Bowl using a premium quality lithium base grease. Carefully insert the adapter bowl, 83C-OCB, into the base bowl. The adapter bowl must be tilted toward the back of the crimper during insertion. See decal on side of crimper for proper tool selection.



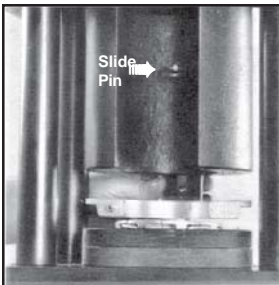
4. Lubricate Die Bowl using a premium quality lithium base grease. Place unitized die-train into the adapter bowl. See decal on crimper for proper die set.  
**Note:** Die sets have color coded cavities indicating size and have the fitting series and dash size stamped on the top.  
**Note:** Select correct dies and die ring based on size. See Parkrimp Tool Selection Chart on pages C-3—C-7.



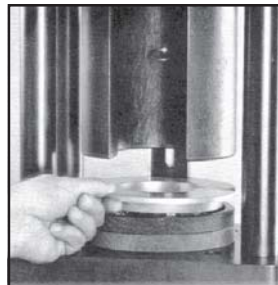
Color Coded Unitized Die-Train



5. If required, place spacer ring on locating step of adapter bowl. Reference hose/die selection chart on pages C-3—C-7 for usage.



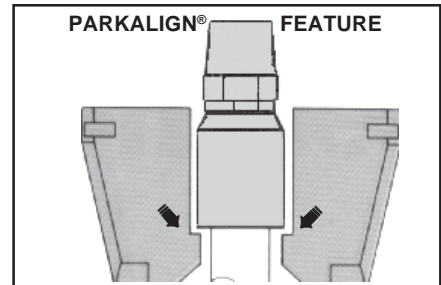
6. Lower the back half of the split die ring onto the dies by pulling the slide pin forward.



7. Insert the front half of the split die ring aligning the pin in the back half with the hole in the front half.



8a. Position hose in dies from below.



8b. Rest bottom of coupling on die step using PARKALIGN® feature. Once positioned, go to Step 7 on page C-20.

**Note:** See page C-26 for Parkrimp crimp diameters.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

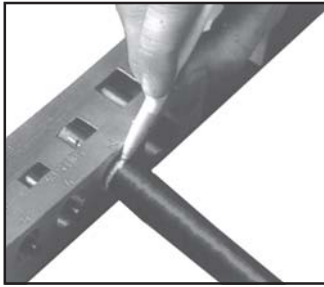


## Parkrimp 2 Assembly Instructions

### Crimping instructions when the Adapter Bowl IS NOT required.

NOTE: See Technical Manual and Video supplied with each machine for specific operating instructions.

Hose  
**A**



1. Mark the hose insertion depth and push hose into fitting until the mark on the hose is even with the end of the shell (**DO NOT use any lubricant to assemble spiral hose and fittings**). Hose Insertion Depth table is on page C-26.

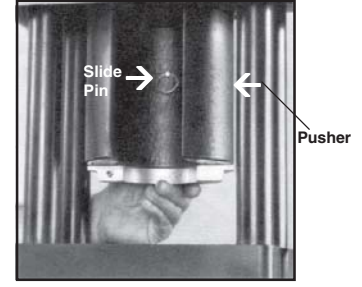
Fittings  
**B**



1a. Place 81 Series Shell onto end of hose and make sure the end of the shell lines up with the Insertion Depth mark. See chart on page C-26 for Insertion Depths.



1b. Push hose onto the 88 Series fitting until the shell in Step 1a bottoms against the fitting's stop ring or hex. Lubricate hose if necessary.

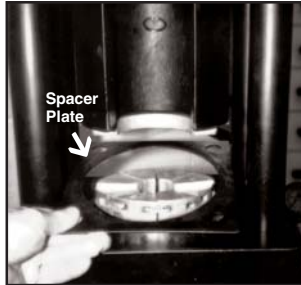


2. With the pusher in the full up position, lift the back half of the split die ring. Lock it in the up position by pushing the slide pin in. (The slide pin is inside the pusher at the back.) Pull pin at the top of pusher to swing it back. Lubricate Die Bowl using a premium quality lithium base grease.

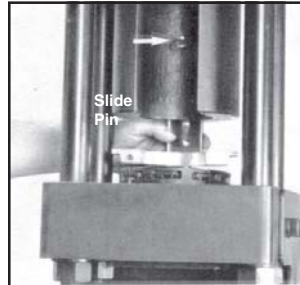
Parkrimp Crimping Equipment  
**C**



3a. Insert the proper size and series die set into the die bowl. (The die sets are in two halves of four dies each. Place one half in the back and one half in the front to facilitate removal of bent tube fittings.) Reference hose/die selection chart on pages C-3—C-7 or decal on crimp cover for proper tool selection.



3b. If required, place spacer plate around dies. Reference hose/die selection charts on pages C-3—C-7.



4. Lower the back half of the split die ring onto the dies by pulling the slide pin forward.



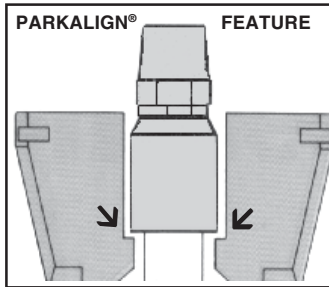
5. Insert the front half of the split die ring aligning the pins in the back half with the hole in the front half.

Hose Assembly Equipment  
**D**

Adapters  
**E**



6. Position hose in dies from below.



6b. Rest bottom of coupling on die step using PARKALIGN® feature.

7. Turn on the pump by depressing the "ON" switch. Pull the valve handle forward to bring the pusher down for crimping. When the split die ring contacts the base plate, the crimp is complete. Push the valve handle back to lift the pusher, open the dies, and release the finished assembly.



8. You do not have to remove any tooling to remove or insert straight fittings. The front half of the split die ring and the front die train must be removed to insert and remove bent tube fittings.

Accessories  
**F**

Appendices  
**G**

Note: See page C-26 for Parkrimp crimp diameters.

Note: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



**Hydraulic Press Kit**  
For use with 26, 43, 81 and HY Series Fittings ONLY.

Now you can convert your hydraulic press to utilize Parker Parkrimp No-Skive, thru the cover, fittings. Crimping is easy using the Parkrimp 8PC-001 Conversion Kit.

**Specifications**

- Required Height: Press Base to Press Ram: 10 Inches
- Required Width: Bowl Diameter: 5 Inches
- Bowl Rating: 30 Tons Force Maximum
- Capability:
  - 1-1/4" SAE 100R1AT maximum
  - 1-1/4" SAE 100R2AT maximum
  - 1" SAE 100R3 maximum
  - 1-1/4" SAE 100R4 maximum
  - 7/8" SAE100R5 maximum
  - 1" SAE 100R16 maximum
  - 1" SAE 100R17 maximum
  - 7/8" SAEJ1402 AI maximum
  - 7/8" SAEJ1402 All maximum
- Set Up Time 30 Seconds

**Minimum Required Press Capacity:**

- Hose Size: Press Size
- 4, -5, -6, -8 20 Ton Press
- 10, -12, -16, -20 30 Ton Press

**Note:** For Hydraulic Press Kit operating instructions for, see page C-22—C-23 or Hose Products Division Bulletin 4480-B11.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

**Standard Equipment**

**Model 8PC-001 includes:**

- Bowl Assembly 8PC-030
- Pusher 8PC-00P
- Silver Die Ring 81C-R01
- Black Die Ring 81C-R02

**43 Series Dies (Silver)**

- -4 (1/4") Cavity Color Coded Red 80C-A04
- -6 (3/8") Cavity Color Coded Yellow 80C-A06
- -8 (1/2") Cavity Color Coded Blue 80C-A08
- -12 (3/4") Cavity Color Coded Green 80C-A12
- -16 (1") Cavity Color Coded Black 80C-A16

**Optional Tooling:**

**26 Series Dies (Silver)**

- -4 (3/16") Cavity Color Coded Red 80C-E04
- -5 (1/4") Cavity Color Coded Purple 80C-E05
- -6 (5/16") Cavity Color Coded Yellow 80C-E06
- -8 (13/32") Cavity Color Coded Blue 80C-E08
- -10 (1/2") Cavity Color Coded Orange 80C-E10
- -12 (5/8") Cavity Color Coded Green 80C-E12
- -16 (7/8") Cavity Color Coded Black 80C-E16

**43 Series Dies (Silver)**

- -5 (5/16") Cavity Color Coded Purple 80C-A05
- -10 (5/8") Cavity Color Coded Orange 80C-A10
- -20 (1-1/4") Cavity Color Coded White 80C-A20

**81 Series Dies (Silver)**

- -12 (3/4") Cavity Color Coded Green 80C-V12
- -16 (1") Cavity Color Coded Black 80C-V16
- -20 (1-1/4") Cavity Color Coded White 80C-V20

**HY Series Dies - AX Hose (Silver)**

- -4 (1/4") Cavity Brown 80C-H585
- -6 (3/8") Cavity Brown 80C-H735
- -8 (1/2") Cavity Brown 80C-H840
- -10 (5/8") Cavity Brown 80C-H970
- -12 (3/4") Cavity Brown 80C-H1120

**HY Series Dies - BXX Hose (Silver)**

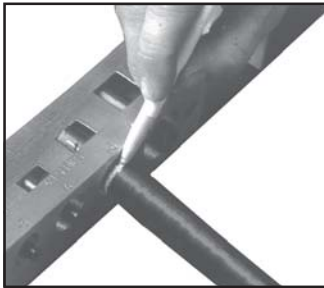
- -4 (1/4") Cavity Brown 80C-H605
- -6 (3/8") Cavity Brown 80C-H775
- -8 (1/2") Cavity Brown 80C-H885
- -10 (5/8") Cavity Brown 80C-H1010
- -12 (3/4") Cavity Brown 80C-H1170

Hose	<b>A</b>
Fittings	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>



## Parkrimp Hydraulic Press Kit Assembly Instructions for 43, 81, and HY Series Fittings

Hose  
**A**



1. Mark the hose insertion depth and push hose into fitting until the mark on the hose is even with the end of the shell (lubricate hose, if necessary). Hose Insertion Depth table is on page C-26.

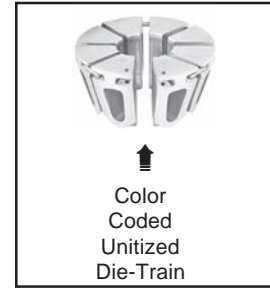
Fittings  
**B**



2. Position the die bowl assembly on the press, using two supports if necessary. Leave a space between the supports for insertion of the hose and fitting from the bottom.



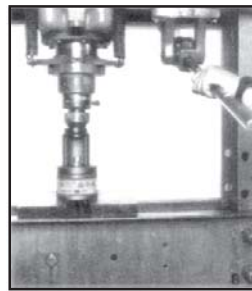
3. Lubricate Die Bowl using a premium quality lithium base grease. Place unitized die-train into base plate. See decal on crimper for proper die set.  
**Note:** Die sets have color coded cavities indicating size and have the dash size stamped on the top. Reference page C-3—C-7 for proper die set.



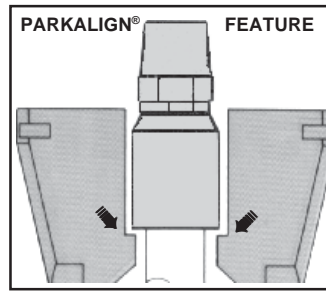
Parkrimp Crimping Equipment  
**C**



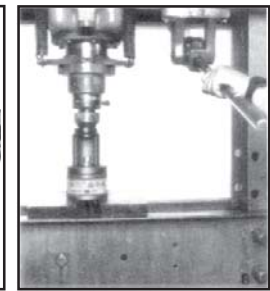
4. Place die ring on top of the dies with the flat side up. In selecting the proper die ring, see decal on die bowl.



5. Center the pusher on the die ring and position under the cylinder of the press.



6. Rest bottom of coupling on die step using PARKALIGN® feature.



7. Activate the press to crimp fitting to hose. When die ring contacts bowl, crimp is complete.

Hose Assembly Equipment  
**D**



8. Deactivate the press and remove the finished assembly. You do not have to remove dies for straight fittings. Die ring must be removed for most bent tube fittings. Check crimp diameter (see page C-26).

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

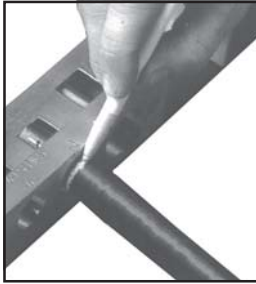
**Note:** A 20 ton press will crimp 26 Series and 43 Series fittings through -8 (1/2"). For larger sizes of 43, 81 and HY Series fittings, a 30 ton press is required.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



## Parkrimp Hydraulic Press Kit Assembly Instructions for 26 Series Fittings



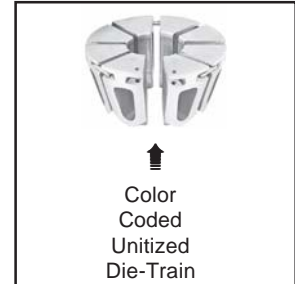
1. Place the hose next to the fitting shell and mark the length of the shell on to the hose. Push hose into the fitting until the mark on the hose is even with the end of the shell.



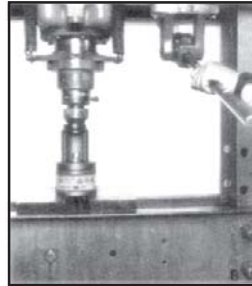
2. Position the die bowl assembly on the press, using two supports if necessary. Leave a space between the supports for insertion of the hose and fitting from the bottom.



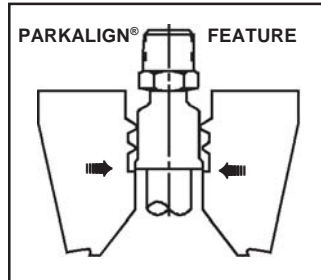
3. Lubricate Die Bowl using a premium quality lithium base grease. Place unitized die-train into base plate. See decal on crimper for proper die set.  
**Note:** Die sets have color coded cavities indicating size and have the dash size stamped on the top.



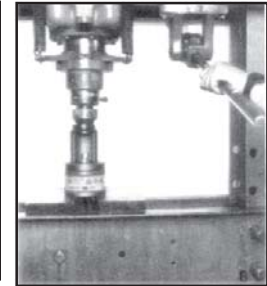
4. Place die ring on top of the dies with the flat side up. In selecting the proper die ring, see decal on die bowl.



5a. Center the pusher on the die ring and position under the cylinder of the press.



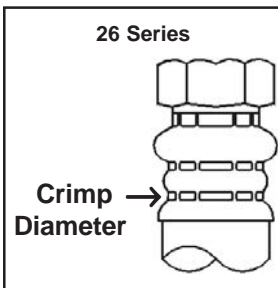
5b. Rest bottom of coupling on die step using PARKALIGN® feature.



6. Activate the press to crimp fitting to hose. When die ring contacts bowl, crimp is complete.



7a. Deactivate the press and remove the finished assembly. Check crimp diameter of the flat surface of the grooves closest to shell end (see illustration).



7b. Check crimp diameter of the flat surface of the grooves at location shown in above illustration. See chart on page C-26 for crimp diameters.

### Hydraulic Press Kit and Conversion Kits Tool Selection for 26 Series Fittings

Hydraulic Press Kit

213, 285, & 293 Hose  
SS23CG, 201/261, 206, 225, 244  
& 266 Hose

Silver Die Ring - 81C-R01

Black Die Ring - 81C-R02

Weatherhead & Gates Conversion Kits

213, 285, & 293 Hose  
201/261, 206, 225, 235, & 266 Hose

Silver Die Ring - 81C-R01

Black Die Ring - 81C-R02

**Note:** A 20 ton press will crimp 26 Series fittings through -8 (13/32"). For larger sizes, a 30 ton press is required.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Hose	A
Fittings	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**



## Weatherhead Conversion Kit

For use with 26, 43 and HY Series Fittings  
**ONLY.**

Now you can convert Weatherhead T-400 Crimpers to utilize Parker Parkrimp No-Skive thru-the-cover fittings. Crimping is easy and quick using Parkrimp 8WC-001 Conversion Kit.

### Standard Equipment

Model 8WC-001 for T-400 machines includes:

- Bowl Assembly 8PC-030
- Pusher 8WC-00P
- Silver Die Ring 81C-R01
- Black Die Ring 81C-R02

#### 43 Series Dies (Silver)

- -4 (1/4") Cavity Color Coded Red 80C-A04
- -6 (3/8") Cavity Color Coded Yellow 80C-A06
- -8 (1/2") Cavity Color Coded Blue 80C-A08
- -12 (3/4") Cavity Color Coded Green 80C-A12

### Optional Tooling:

#### 43 Series Dies (Silver)

- -5 (5/16") Cavity Color Coded Purple 80C-A05
- -10 (5/8") Cavity Color Coded Orange 80C-A10

#### 26 Series Dies (Silver)

- -4 (3/16") Cavity Color Coded Red 80C-E04
- -5 (1/4") Cavity Color Coded Purple 80C-E05
- -6 (5/16") Cavity Color Coded Yellow 80C-E06
- -8 (13/32") Cavity Color Coded Blue 80C-E08
- -10 (1/2") Cavity Color Coded Orange 80C-E10
- -12 (5/8") Cavity Color Coded Green 80C-E12

#### HY Series Dies - AX Hose (Silver)

- -4 (1/4") Cavity Brown 80C-H585
- -6 (3/8") Cavity Brown 80C-H735
- -8 (1/2") Cavity Brown 80C-H840
- -10 (5/8") Cavity Brown 80C-H970
- -12 (3/4") Cavity Brown 80C-H1120

#### HY Series Dies - BXX Hose (Silver)

- -4 (1/4") Cavity Brown 80C-H605
- -6 (3/8") Cavity Brown 80C-H775
- -8 (1/2") Cavity Brown 80C-H885
- -10 (5/8") Cavity Brown 80C-H1010
- -12 (3/4") Cavity Brown 80C-H1170

**Note:** For additional information and operating instructions, reference Hose Products Division Bulletin #4480-B10.

**Note:** For crimping information, see pages C-22—C-23.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



## Gates Conversion Kit

For use with 26, 43, 81 and HY Series Fittings  
**ONLY**

Now you can convert the Gates 701, 703, and 707 bottom loading crimp machines to crimp Parkrimp 43 Series No-Skive thru-the-cover fittings. Crimping is easy and quick using the Parkrimp 8GC-002 conversion kit.

### Standard Equipment

Model 8GC-002 includes:

- Bowl Assembly 8PC-030
- Silver Die Ring 81C-R01
- Black Die Ring 81C-R02

### 43 Series Dies (Silver)

- -4 (1/4") Cavity Color Coded Red 80C-A04
- -6 (3/8") Cavity Color Coded Yellow 80C-A06
- -8 (1/2") Cavity Color Coded Blue 80C-A08
- -12 (3/4") Cavity Color Coded Green 80C-A12
- -16 (1") Cavity Color Coded Black 80C-A16

### Optional Tooling:

#### 26 Series Dies (Silver)

- -4 (3/16") Cavity Color Coded Red 80C-E04
- -5 (1/4") Cavity Color Coded Purple 80C-E05
- -6 (5/16") Cavity Color Coded Yellow 80C-E06
- -8 (13/32") Cavity Color Coded Blue 80C-E08
- -10 (1/2") Cavity Color Coded Orange 80C-E10
- -12 (5/8") Cavity Color Coded Green 80C-E12
- -16 (7/8") Cavity Color Coded Black 80C-E16

#### 43 Series Dies (Silver)

- -5 (5/16") Cavity Color Coded Purple 80C-A05
- -10 (5/8") Cavity Color Coded Orange 80C-A10
- -20 (1-1/4") Cavity Color Coded White 80C-A20

#### HY Series Dies - AX Hose (Silver)

- -4 (1/4") Cavity Brown 80C-H585
- -6 (3/8") Cavity Brown 80C-H735
- -8 (1/2") Cavity Brown 80C-H840
- -10 (5/8") Cavity Brown 80C-H970
- -12 (3/4") Cavity Brown 80C-H1120

#### HY Series Dies - BXX Hose (Silver)

- -4 (1/4") Cavity Brown 80C-H605
- -6 (3/8") Cavity Brown 80C-H775
- -8 (1/2") Cavity Brown 80C-H885
- -10 (5/8") Cavity Brown 80C-H1010
- -12 (3/4") Cavity Brown 80C-H1170

#### 81 Series Dies (Silver)

- -12 (3/4") Cavity Color Coded Green 80C-V12
- -16 (1") Cavity Color Coded Black 80C-V16
- -20 (1-1/4") Cavity Color Coded White 80C-V20

**Note:** For additional information and operating instructions, reference Hose Products Division Bulletin #4480-B8.

**Note:** For crimping information, see pages C-22—C-23.

**Note:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Hose

**A**

Fittings

**B**

Parkrimp  
Crimping  
Equipment

**C**

Hose  
Assembly  
Equipment

**D**

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### Crimp Diameters

CRIMP DIAMETERS*												
Fittings Series	26 Series	26 Series	43 Series	43 Series	70 Series	71 Series	73 Series	78 Series	79 Series	81 Series	HY Series**	
Size	213, 221FR, 225, 285, & 293	201/261, 206, 235, 244, 266, & SS23CG	351TC, 351ST, 421, 424, 426, 431, 436, 451TC, 451ST, 471TC, 471ST, 472TC, 482TC & 482ST	301, 301LT, 304, 381, 341, 421WC, 601, 604, & 881	701	721, 721TC, 772TC, 772ST & 774	CN, 731	781, 78C, 782TC & 782ST	791TC, 792TC & 792ST	881 & 811	AX	BXX
-4	0.460 / 0.480	0.500 / 0.520	0.645 / 0.665	0.685 / 0.705	-	-	-	-	-	-	0.575 / 0.595	0.635 / 0.655
-5	0.520 / 0.540	0.560 / 0.580	0.710 / 0.730	0.750 / 0.770	-	-	-	-	-	-	-	-
-6	0.575 / 0.595	0.615 / 0.635	0.825 / 0.845	0.865 / 0.885	0.990 / 1.010	0.950 / 0.970	-	-	-	-	0.725 / 0.745	0.805 / 0.825
-8	0.670 / 0.690	0.710 / 0.730	0.945 / 0.965	0.985 / 1.005	1.140 / 1.160	1.100 / 1.120	-	-	-	-	0.830 / 0.850	0.915 / 0.935
-10	0.805 / 0.825	0.845 / 0.865	1.060 / 1.080	1.100 / 1.120	1.260 / 1.280	1.220 / 1.240	-	1.390 / 1.410	-	-	0.960 / 0.980	1.040 / 1.060
-12	0.915 / 0.935	0.955 / 0.975	1.245 / 1.265	1.285 / 1.305	1.395 / 1.415	1.355 / 1.375	1.420 / 1.440	1.420 / 1.440	1.420 / 1.440	1.155 / 1.175	1.110 / 1.130	1.200 / 1.220
-16	1.175 / 1.195	1.215 / 1.235	1.590 / 1.610	1.630 / 1.650	1.735 / 1.755	1.695 / 1.715	1.730 / 1.750	1.730 / 1.750	1.730 / 1.750	1.450 / 1.470	1.355 / 1.375	1.495 / 1.515
-20	1.420 / 1.440	1.460 / 1.480	1.970 / 1.990	2.010 / 2.030	-	2.025 / 2.045	2.140 / 2.160	2.140 / 2.160	2.140 / 2.160	1.740 / 1.760	-	-
-24	1.670 / 1.690	1.710 / 1.730	2.290 / 2.310	2.330 / 2.350	-	2.290 / 2.310	2.440 / 2.460	2.440 / 2.460	-	2.010 / 2.030	-	-
-32	2.160 / 2.180	2.200 / 2.220	2.735 / 2.755	2.775 / 2.795	-	2.775 / 2.795	3.025 / 3.045	3.025 / 3.045	-	2.430 / 2.450	-	-

\* Crimp diameters for stainless steel fittings are 0.010 larger than standard steel fittings.

\*\* Crimp diameters for HY Series stainless steel fittings are 0.005 larger than standard steel fittings.

**Note:** Reference pages C-3—C-7 for Die, Die Ring, Spacer Plate, and Spacer Ring Selection Chart.

**Note:** Crimp diameters for Parker Hose Products, Parflex, and Industrial Hose products are located in CrimpSource, a dynamic website resource located at: [www.parkerhose.com](http://www.parkerhose.com).

### Hose Insertion Depths

Fitting Size	Fitting Series																	
	26		43		70		71		73		78		79		81		HY	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
-4	13/16	21	13/16	21	-	-	-	-	-	-	-	-	-	-	-	-	1-7/16	37
-5	13/16	21	15/16	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-6	13/16	21	1-1/8	29	1-1/16	27	1-1/16	27	-	-	-	-	-	-	-	-	1-1/2	40
-8	13/16	21	1-5/16	33	1-5/16	33	1-1/4	32	-	-	-	-	-	-	-	-	1-9/16	40
-10	7/8	22	1-9/16	40	1-3/8	35	1-5/16	33	-	-	1-7/8	47	-	-	-	-	1-9/16	40
-12	7/8	22	1-1/2	38	1-1/2	38	1-7/16	37	1-7/8	48	1-7/8	48	2-3/16	56	1-1/8	29	1-5/8	40
-16	1	25	1-3/4	44	1-13/16	46	1-3/4	44	2	51	2	51	2-5/16	59	1-1/4	32	1-3/4	43
-20	1	25	1-7/8	48	1-3/4	44	1-13/16	46	2-1/2	64	2-1/2	64	2-13/16	71	1-5/16	33	-	-
-24	1-1/16	27	1-7/16	37	-	-	2-5/16	59	2-7/16	62	2-7/16	62	-	-	1-5/16	33	-	-
-32	1-1/4	32	1-13/16	46	-	-	2-7/16	62	2-13/16	71	2-7/8	73	-	-	1-11/16	43	-	-

**Note:** When making up hose assemblies with your Parkrimp system it is a good quality practice to follow these steps.

1. Be sure the hose has been fully inserted into the fitting. Use of the Hose Insertion Depth Gauges for correct marking. The hose insertion depth measurements are listed in the above table.
2. Next, after crimping, check for the proper crimp diameter. This means, check the crimp diameter of the 1st, 50th and last hose assembly of each type and size produced. Proper crimp diameters are listed in the above table and are located on [www.parkerhose.com](http://www.parkerhose.com) > Technologies > CrimpSource™. Should you find crimp diameters out of tolerance, inspect each assembly made. *Never use hose assemblies with an incorrect crimp diameter.* Use the appropriate Parkrimp Machine Trouble-Shooting Guide to determine the cause of a problem.

If you have questions concerning the Parkrimp Hose Assembly Instructions, Products or Application of Products contained in this catalog, please call:

Parker Hose Products Division - Technical Services Department for Equipment  
 Phone: 440/943-5700  
 FAX: 440/946-0843  
[www.parkerhose.com](http://www.parkerhose.com)



A Hose  
 B Fittings  
 C Parkrimp Crimping Equipment  
 D Hose Assembly Equipment  
 E Adapters  
 F Accessories  
 G Appendices





Hose	<b>A</b>
Fittings	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
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<p><b>TH8-400</b> - Production Crimper</p>  <p>D-3</p>	<p><b>Model No. 339 &amp; 239</b> - Hose Cut-Off Machine</p>  <p>D-4</p>	<p><b>Model No. 332T-115V</b> - Hose Cut-Off Machine</p>  <p>D-4</p>	<p><b>Model No. 631075</b> - Karrykut - Hose Cut-Off Machine</p>  <p>D-5</p>
<p><b>Model No. 871522</b> - Handcut - Hose Cut-Off Machine</p>  <p>D-5</p>	<p><b>Model No. 881540</b> - Push-Lok Cut-Off &amp; Assembly Tool</p>  <p>D-5</p>	<p><b>Model No. 316</b> - Hose Cut-Off Tool</p>  <p>D-5</p>	<p><b>Model No. TH11-1</b> - Hose Cut-Off Tool</p>  <p>D-6</p>
<p><b>Model No. TH9-1</b> - Hose Insertion Depth Blocks (Gauges)</p>  <p>D-6</p>	<p><b>Model No. TH2-7</b> - Fittings Push-On Stand</p>  <p>D-6</p>	<p><b>Model No. 80C-SDR</b> - Swivel Die Rack</p>  <p>D-7</p>	<p><b>Model No. 80C-ODR</b> - Die Storage Rack</p>  <p>D-7</p>
<p><b>Model No. 432-115V</b> - Hozemblem &amp; Stand</p>  <p>D-7</p>	<p><b>Hoze-Oil</b></p>  <p>D-8</p>	<p><b>Accrolube</b> - High Efficiency Lubricant</p>  <p>D-8</p>	<p><b>601069</b> - Hose Perforator</p>  <p>D-8</p>
<p><b>Model No. 652200</b> - Mandrel Tool Kit - 22 Series</p>  <p>D-8</p>	<p><b>Model No. 2727</b> - Mandrel Tool Kit - 23 Series (JIC 37° Flared)</p> <p><b>Model No. 2726</b> - Mandrel Tool Kit - 23 Series (SAE45° &amp; PTT30°)</p>  <p>D-9</p>	<p><b>Model No. 652201</b> - Assembly Tools - 22 Series</p>  <p>D-9</p>	<p><b>Hydraulic Hose and Flow Capacity Guide</b></p>  <p>D-9</p>



## Production Crimper TH8-400

### ◆ Specifications

- Power: 230 Volts 3 Phase 60 Hz
- Weight: 1000 lbs
- Width: 27 inches
- Depth: 44 inches
- Height: 58 inches
- Height to center of dies: 48-1/2 inches
- Capacity:
  - 1-1/4" SAE 100R1AT Max.
  - 1" DIN 20 022-1SN Max.
  - 1-1/4" SAE 100R2AT Max.
  - 1-1/4" DIN 20 022-2SN Max.
  - 1" SAE 100R3 Max.
  - 1-1/4" SAE 100R4 Max.
  - 7/8" SAE 100R5 Max.
  - 7/8" SAE J1402 AI Max.
  - 7/8" SAE J1402 AII Max.
  - 1-1/4" SAE 100R9 Max.
  - 1-1/4" SAE 100R12 Max.
  - 1" SAE 100R16 Max.
  - 1-1/4" SAE 100R17 Max.
- Cycle Time: 301-8 (1/2" SAE 100R2AT) — 4 seconds per straight end fitting
- Die Changeover Time: One piece cartridge — less than 60 seconds

### ◆ Features

- Enclosed power unit.
- One piece quick set-up cartridge die.
- Foot pedal operated.
- Ten sets of dies will cover the entire range of hose and fittings through 1 1/4" (-20) SAE100R12, requiring 43 and 71 Series coupling through -20 size.
- Die storage area within cabinet.
- Horizontal feed to improve cycle time.
- Some die sets will handle more than one type and size: e.g., one set will handle 43 Series (-8) and 71 Series (-6), while another will handle 43 Series (-10) and 71 Series (-8).

### Standard die sets available are:

Fitting Series	Size
26 Series	-4 through -20
43 Series	-4 through -20
71 Series	-6 through -20

*Other dies sets are available upon request.*

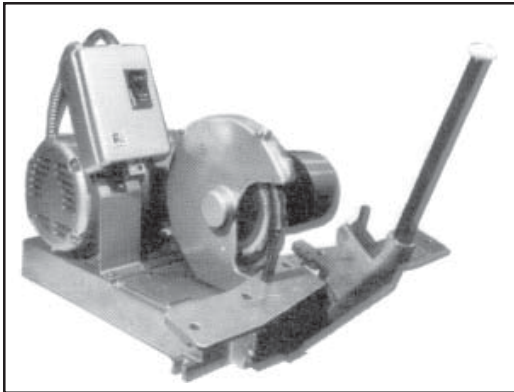
### ◆ Optional Tooling

Die Set Part Number	43 Series Size	71 Series Size
TH8-400DC16	-4	
TH8-400DC18	-5	
TH8-400DC21	-6	
TH8-400DC24	-8	-6
TH8-400DC27	-10	-8
TH8-400DC31	-12	-10
TH8-400DC34		-12
TH8-400DC40	-16	
TH8-400DC43		-16
TH8-400DC50	-20	-20

### Die Set

Part Number	26 Series Size
TH8-400DC26-4	-4
TH8-400DC26-5	-5
TH8-400DC26-6	-6
TH8-400DC26-8	-8
TH8-400DC26-10	-10
TH8-400DC26-12	-12
TH8-400DC26-16	-16
TH8-400DC26-20	-20

Hose  
**A**



## Hose Cut-Off Machine Model No. 339 and 239

### Model 339

Designed for heavy duty use. Will cut multi-braided wire reinforced hoses including 6 heavy spiral constructions up to 2" inside diameters. Model 339 comes equipped with 2 cut-off blades of a special scalloped construction. Equipped with 3 HP motor 230V, 3 phase, 60 cycle.

Dimensions: 22" wide x 42" long x 24" high  
Shipping Weight: 115 lbs.  
Replacement Scallop Cutting Blade (10" with 3/4" arbor size) Part No. 24248  
Replacement Smooth Cutting Blade Part No. 15960

### Model 239

This is Model 339 with 230V single-phase motor Part No. 239

For additional information see Bulletin #4497-B11.

Fittings  
**B**

Parkrimp  
Crimping  
Equipment  
**C**



## Hose Cut-Off Machine Model No. 332T-115V

Power unit for quick, easy cutting of cotton or rubber covered fabric braid or wire reinforced hose. Equipped with 1-1/2 HP, 3450 RPM, 115/230V single phase electric motor wired for 115V. Belt driven cutting wheel of high speed steel, hardened and ground for smooth, dust-free, long-lasting service. Moving parts shielded by guards. Includes a Smooth Cutting Blade (8" with 5/8" arbor size)

Model 332T-115V will cut:

- two wire braid, 1-1/4" maximum
- one wire braid, 2" maximum
- four spiral, 1-1/4" maximum

Replacement Smooth Cutting Blade (8" with 5/8" arbor size) Part No. 580661  
Replacement Scallop Cutting Blade Part No. 24398

Assembly  
Equipment  
**D**

Adapters  
**E**

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**F**

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### Hose Cut-Off Machine - Karrykut Model No. 631075

A portable power saw for cutting on the job. Hardened steel blade powered by 115V (13 amp) universal AC motor. Hand grip, trigger control. Unique clamp spreads hose as it is cut to prevent binding of blade.

Cuts rubber and cotton covered, wire or fabric reinforced hose from: 1/4" through 2" inside diameter.

Cuts 4 spiral light wire hose: 1-1/4" maximum

Universal Clamp Attachment: Part No. 631076

Universal clamp attachment may be used with any portable power saw unit having a 5/8" arbor, 8" blade capacity.

Replacement Cutting Blade (8" with 5/8" arbor size):

Part No. 580661

Replacement Power Saw (less clamp and blade):

Part No. 631140



### Hose Cut-Off Tool - Handykut Model No. 871522

Handykut is a portable tool designed for efficient cutting of hose. Once Handykut is positioned onto a flat surface by clamps or by locking it in a vise, properly align the hose in a radius and cut it with a hacksaw.

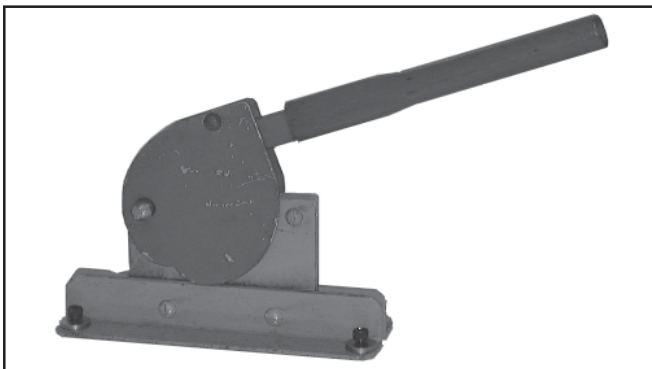


### Push-Lok Cut-Off & Assembly Tool Model No. 881540

This unique tool combines a hose cutter with a toggle-action that presses the fitting into the hose. Designed to handle Push-Lok hose from 1/4" through 3/4", this tool makes the job easier whether you are making one assembly or a hundred.

Overall length: 16"

Weight: Approximately 4 pounds



### Hose Cut-Off Tool Model No. 316

Model 316 hose cut-off tool is a small size, easy to use, manually operated unit for quick cutting of Parker 235, 293, 601, and 604 hoses. It can also be used for Push-Lok hose 801, 804, 821, 821FR, 831 and 836. Ruggedly built for years of trouble-free service.

Hose  
**A**

Fittings  
**B**

Parkrimp  
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**C**

Assembly  
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Hose  
**A**



**Hose Cut-Off Tool**  
**Model No. TH11-1**

Parker Push-Lok cutters are designed for quick, easy cutting of Push-Lok hose in all sizes and non-wire reinforced hose. TH11-1 squarely cuts Push-Lok hose 1/4" I.D. through 3/4" I.D.

Fittings  
**B**



**Hose Insertion Depth Blocks**

**For quick and easy marking of hose insertion depth. A faster way to leak-free assemblies. Ensures accuracy. Increase productivity.**

The first step toward a leak-free hose assembly is accurately marking the proper hose insertion depth. This is a fail-safe way to quickly and easily mark proper insertion depth, each and every time. With aluminum blocks and steel mandrels, Hose Insertion Depth Blocks feature a range of sizes clearly designated for a specific fitting series.

**Note:** For additional information, please see Bulletin #4480-B53-USA.

Parkrimp  
 Crimping  
 Equipment  
**C**

Assembly  
 Equipment  
**D**

Part Number	Description
TH9-1-43A	43 Series -4 through -10
TH9-1-43B	43 Series -12 through -32
TH9-1-71	71 Series -6 through -32
TH9-1-78	78 Series -12 through -32
TH9-1-26A	26 Series -4 through -10
TH9-1-26B	26 Series -12 through -32
TH9-1-70	70 Series -6 through -20
TH9-1-73	73 Series -12 through -32
TH9-1-STD	Insertion Depth Marking Stand

Adapters  
**E**



**Fitting Push-On Stand**  
**Part No. TH2-7**

**Fitting Push-On Stand is the fastest way to make Parker hose assemblies in production volumes. Quickly and easily pushes fittings onto hose.**

Boosts productivity and quality. Reduces worker fatigue. The Push-On Stand eliminates the need of rubber mallets, oils and a lot of elbow grease to get fittings all the way onto the end of hose for crimping. Comes complete with straight tooling required for sizes -4 to -32, all permanent series, 82 Push-Lok, and 88 series field attachable fittings. Elbow Pusher Set (TH2-7-ELS) available.

**Note:** For additional information, please see Bulletin #4480-B36-USA.

Accessories  
**F**

Appendices  
**G**





### Swivel Die Rack Part No. 80C-SDR

Holds up to 30 dies. Accommodates any size Parkrimp die. Powder-coated, heavy-duty steel construction.

The convenient new Swivel Die Rack, organizes and stores your collection of dies so they're always ready to work when you are. The Swivel Die Rack consists of a base unit and up to five circular holders, each with the capacity to hold five or six dies. It is floor or bench mountable.

Note: For additional information, please see Bulletin #4480-B54-USA.

Part Number	Description
80C-SDR-SM	Swivel Die Rack and Small Die Holder
80C-SDR-LG	Swivel Die Rack and Large Die Holder
80C-SDR-Base	Swivel Die Rack Base



### Die Storage Racks 80C-ODR and 83C-ODR

The 80C-ODR and 83C-ODR Die Storage Racks are modular die rack designed to hold small and large Parkrimp dies.

The 80C-ODR will store three sets of small dies while the 83C-ODR is capable of storing two sets of large dies. The modules can be bolted together horizontally or vertically. They can also be bolted to the work bench. Clips are provided to bolt the modules to a wall or the side panel of a truck for additional stability.

Request Bulletin #4480-B26 for additional information.



### Hozemblem Model 432-115V

The 432 Hozemblem is a power machine to facilitate the attachment of reusable hose fittings. It readily handles all types of hose and fittings in sizes -3 through -32 I.D., including standard bent tube elbow. The 432 will also handle assembly of 4 heavy wire spiral through -24, I.D. 115V, 30 amp, universal AC motor. Model 432 is supplied complete with foot switch and safety guard.

- Model 432 Hozemblem (complete with vise and all adapters) Part No. 432-115V
- Mounting stand: Part No. 662451
- Replacement Parts
- Hose vise (complete with 662453 and 662454) Part No. 662452
- Hose vise jaw plate Part No. 662453
- Hose vise jaw adapter Part No. 662454
- Chuck jaws Part No. 662455
- Chuck jaws adapter set for use with most bent tube ends and hose fitting hex sizes up to 1/2". Part No. 662456

Request Bulletin # 4497-B2 for operating instructions.

Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Assembly Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

Hose  
**A**



**Hoze-Oil**

Parker's improved hose assembly lubricant reduces hose assembly make-up time. Hoze-Oil reduces torque and eliminates waste lubrication. It's cleaner, too! Simply dip the cut hose ends into Parker Hoze-Oil and proceed with the Parkrimp or Reusable fitting hose assembly make-up.

Hoze-Oil

Part No. Hoze Oil

Fittings  
**B**



**Accrolube**

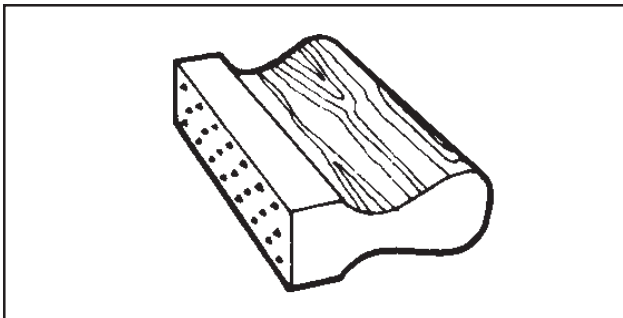
Accrolube is a high efficiency lubricant that will make the assembly of stainless steel field attachable fittings easier. Accrolube contains Teflon which creates a boundary lubrication film that reduces wear between metal surfaces, protects against corrosion, and ultimately eliminates galling.

Accrolube

Part No. Accrolube

Parkrimp  
 Crimping  
 Equipment  
**C**

Assembly  
 Equipment  
**D**



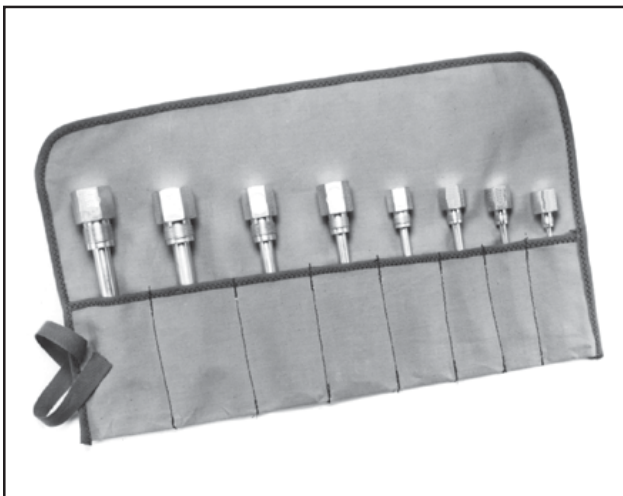
**Hose Perforator**

Small hand tool to prick minute holes in the rubber cover of hose to be used in gaseous service where the pressure exceeds 250 psi. The Hose Perforator is intended to be held in the hand and driven into the cover every few inches of length either striking the hose or by a rolling action over the hose cover. It is not generally necessary to perforate the hose on all sides.

Hose Perforator

Part No. 601069

Adapters  
**E**



**Mandrel Tool Kit - 22 Series  
 Model No. 652200**

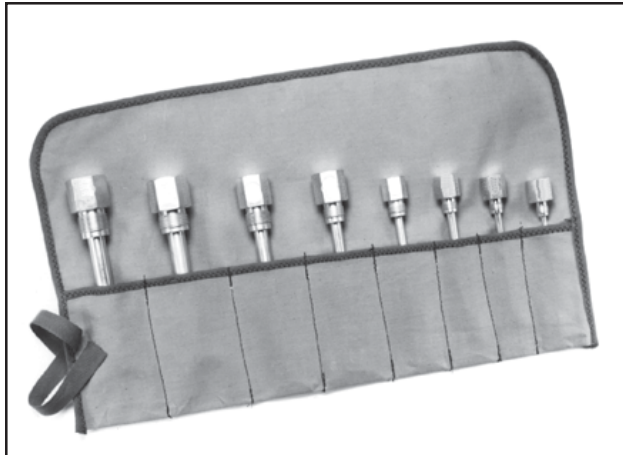
The Mandrel Tool Kit is for assembling Parker 22 Series hose fittings. One of each of the parts listed below are included in the kit.

Hose I.D.	Dash Size	SAE (JIC) 37 Part Number	SAE 45 Part Number
3/16	-4	631073-4	631073-4
1/4	-5	631073-5	631073-5
5/16	-6	631073-6	631074-6
13/32	-8	631073-8	631073-8
1/2	-10	631073-10	631073-10
5/8	-12	631073-12	631074-12

Accessories  
**F**

Appendices  
**G**



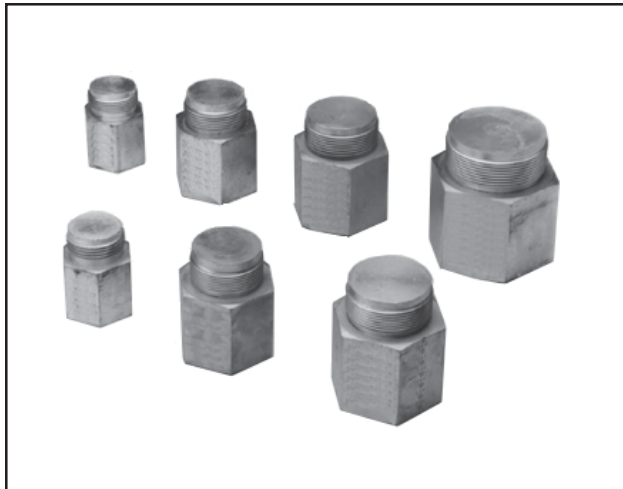


### Mandrel Tool Kit - 23 Series

Model No. 2727 (for JIC 37° flared fittings)  
Model No. 2726 (for SAE 45° and PTT 30° flared fittings)

The Mandrel Tool Kit is for assembling 23 Series hose fittings. One of each of the parts listed below are included in the kit.

Hose I.D.	Dash Size	Kit No. 2727 JIC 37 Flare	Kit No. 2726 SAE 45
3/16	-4	2726-1-4-4S	2726-1-4-4S
1/4	-5	2726-1-5-5S	2726-1-5-5S
5/16	-6	2727-1-6-6S	2726-1-6-6S
13/32	-8	2726-1-8-8S	2726-1-8-8S
1/2	-10	2726-1-10-10S	2726-1-10-10S
5/8	-12	2727-1-12-12S	2726-1-12-12S
7/8	-16	2727-1-16-16S	2728-1-16-16S



### Assembly Tools - 22 Series Model No. 652201

The Model No. 652201 tool kit is for assembling 22 Series hose fittings. One of each of the parts listed below are included in the kit.

Hose I.D.	Dash Size	SAE (JIC) 37 Part Number	SAE 45 Part Number
7/8	-16	631073-16	631074-16
1-1/8	-20	631073-20	631074-20
1-3/8	-24	631073-24	631074-24
1-13/16	-32	631073-32	631074-32



### Hydraulic Hose and Flow Capacity Guide

Productivity tool that is pocket sized, quick and easy to reference and offers correct specifications the first time. The hydraulic hose chart provides working pressure and burst pressure levels for various Parker hose sizes in both metric and U.S. units. The flow capacity chart is a quick reference for flow capacities at recommended flow velocities for pressure, return and suction lines.

Hydraulic Hose and Flow Capacity Guide Part #: Bul. 4480-T14-USA



Hose <b>A</b>
Fittings <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
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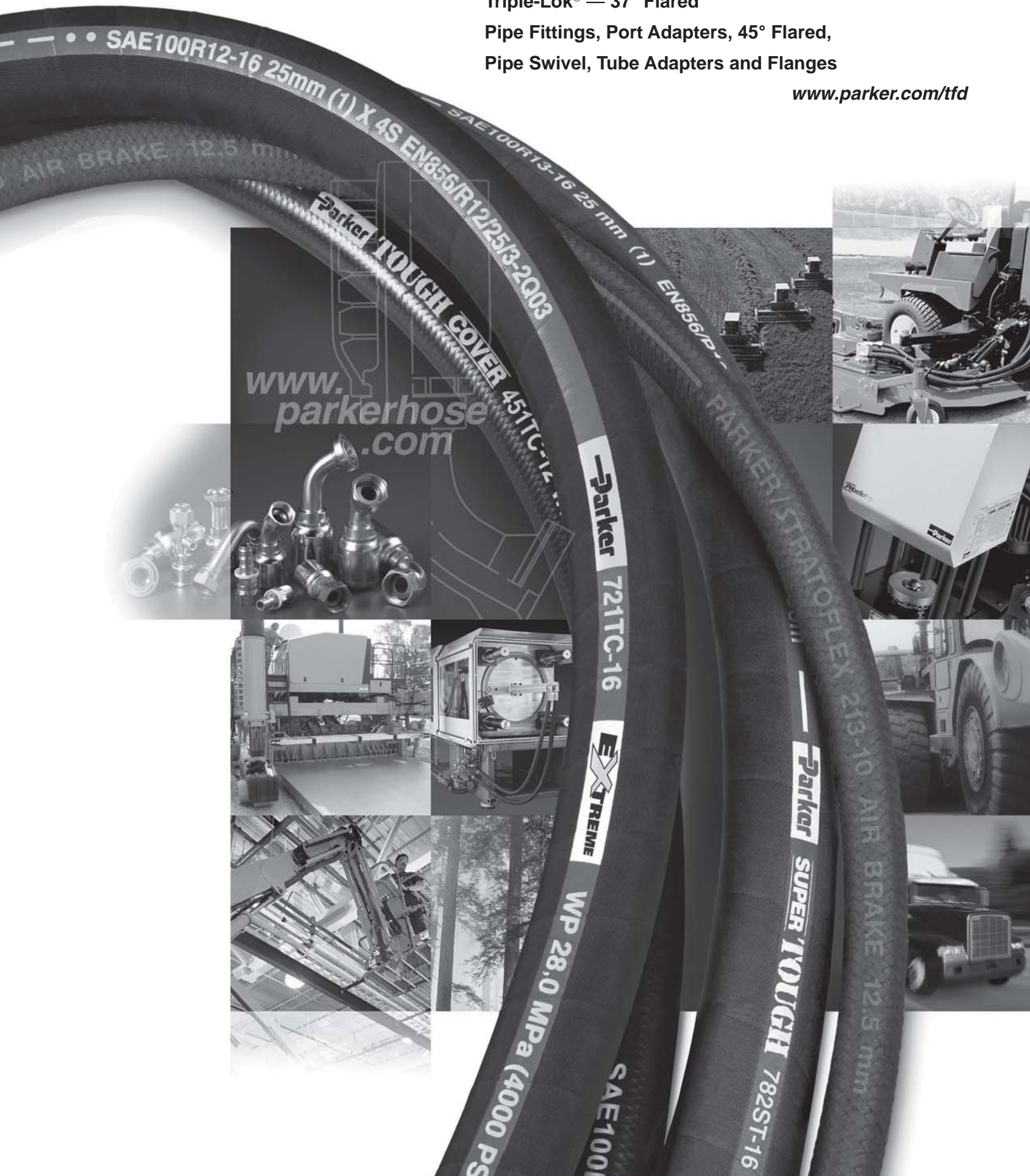
# Adapters

Seal-Lok™ — O-Ring Face Seal

Triple-Lok® — 37° Flared

Pipe Fittings, Port Adapters, 45° Flared,  
Pipe Swivel, Tube Adapters and Flanges

[www.parker.com/tfd](http://www.parker.com/tfd)



[www.parkerhose.com](http://www.parkerhose.com)













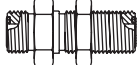
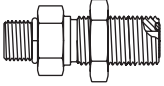

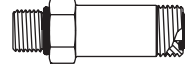








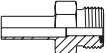




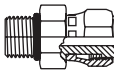
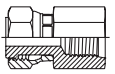
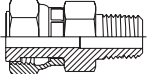
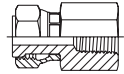

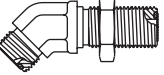

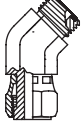
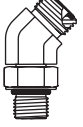
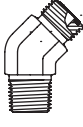

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Fittings 21 Series <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
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**Adapters**

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*Parker Fluid Connector adapters are a product of the Tube Fittings Division (TFD). The TFD base part number is shown in parenthesis ( ). Please contact TFD with any questions regarding all adapters except the SAE 45° Flare adapters. Tube Fittings Division's address and phone number is provided below, as well as in the footer of each page of this section.*

**Parker Hannifin Corporation**  
**Tube Fittings Division**  
**3885 Gateway Blvd.**  
**Columbus, OH 43228**  
**Phone: (614) 279-7070**  
**Fax: (614) 279-7685**  
**[www.parker.com/tfd](http://www.parker.com/tfd)**

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Hose  
**A**

Fittings  
**B**

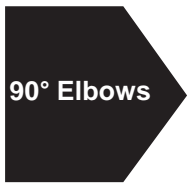
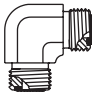
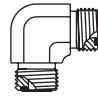
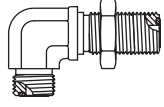
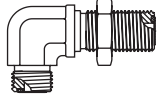
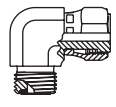
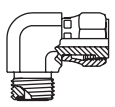
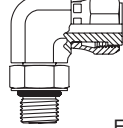
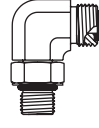
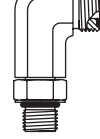
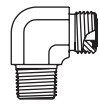
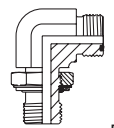
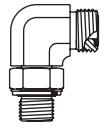

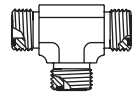
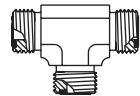
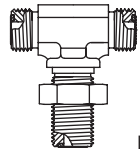
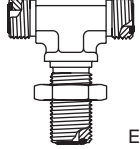
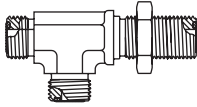
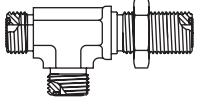
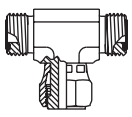
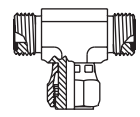
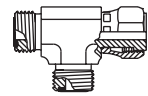
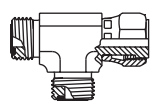
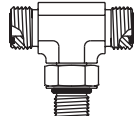
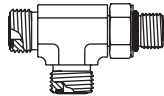
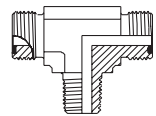
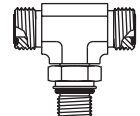
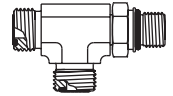

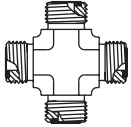
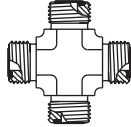





Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

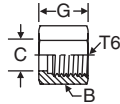
Accessories  
**F**

Appendices  
**G**

	<b>ELO</b> Union Elbow  E-16	<b>EMLO</b> Union Elbow - mm Hex  E-16	<b>WELO</b> Bulkhead Union  E-16	<b>WEMLO</b> Bulkhead Union - mm Hex  E-17	<b>C6LO</b> ORFS Swivel Elbow  E-17
	<b>C6MLO</b> Swivel Elbow - mm Hex  E-17	<b>AOEL6</b> ORFS Swivel / SAE-ORB  E-17	<b>C5OLO</b> ORFS / SAE-ORB  E-18	<b>CC5OLO</b> ORFS / SAE-ORB - Long  E-18	<b>CLO</b> ORFS / NPTF  E-18
<b>C8OMLO</b> ORFS / Metric-ORR  E-19	<b>C4OMLO</b> ORFS / BSPP-ORR  E-20		<b>JLO</b> Union Tee  E-20	<b>JMLO</b> Union Tee - mm Hex  E-20	<b>WJLO</b> Bulkhead Branch  E-20
<b>WJMLO</b> Blkhd Branch - mm Hex  E-21	<b>WJJLO</b> Bulkhead Run  E-21	<b>WJJMLO</b> Bulkhead Run - mm Hex  E-22	<b>S6LO</b> ORFS Swivel Branch  E-22	<b>S6MLO</b> Swivel Branch - mm Hex  E-22	<b>R6LO</b> ORFS Swivel Run  E-23
<b>R6MLO</b> Swivel Run - mm Hex  E-23	<b>S5OLO</b> SAE-ORB Branch Tee  E-23	<b>R5OLO</b> SAE-ORB Run Tee  E-24	<b>SLO</b> NPTF Branch Tee  E-24	<b>S87OMLO</b> ISO 6149 Branch Tee  E-24	<b>R87OMLO</b> ISO 6149 Run Tee  E-25
	<b>KLO</b> Union Cross  E-25	<b>KMLO</b> Union Cross - mm Hex  E-25		<b>PNLO</b> ORFS Plug  E-26	<b>PNMLO</b> ORFS Plug - mm Hex  E-26
<b>FNL</b> ORFS Cap  E-26	<b>FNML</b> ORFS Cap - mm Hex  E-26				

**BL**

Tube Nut  
ORFS



SAE 520110

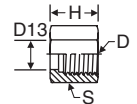
TUBE FITTING PART #	TUBE O.D. (in.)	T6 UNF/UNF-2B	B HEX (in.)	C (in.)	G (in.)	STANDARD From Stock		
						S	SS	B
4 BL	1/4	9/16-18	11/16	0.41	0.58	•	•	
6 BL	3/8	11/16-16	13/16	0.53	0.67	•	•	
8 BL	1/2	13/16-16	15/16	0.65	0.83	•	•	
10 BL	5/8	1-14	1 1/8	0.83	0.93	•	•	
12 BL	3/4	1 3/16-12	1 3/8	0.95	1.02	•	•	
12-14 BL	7/8	1 3/16-12	1 3/8	0.99	1.22	•		
14 BL*	7/8	1 5/16-12	1 1/2	1.08	1.04			
16 BL	1	1 7/16-12	1 5/8	1.14	1.10	•	•	
20 BL	1 1/4	1 11/16-12	1 7/8	1.42	1.10	•	•	
24 BL	1 1/2	2-12	2 1/4	1.73	1.10	•	•	
32 BL*	2	2 1/2-2	2 7/8	2.22	1.30	•	•	

\* Sizes 14 and 32 are not included in SAE J1453.

\*\* These tube nuts should not be exposed to annealing temperatures, such as furnace brazing. Contact the Tube Fittings Division for information on special nuts.

**BML**

Tube Nut – mm Hex  
ORFS

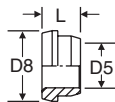


ISO 8434-3 NA  
SAE 52M0110A

TUBE FITTING PART #	TUBE O.D.		D THREAD UN/UNF-2B	D13 DRILL (mm)	H (mm)	S HEX (mm)	STANDARD From Stock		
	(mm)	(in.)					S	SS	B
4BML	6	1/4	9/16-18	10.50	15.0	17	•	•	
6BML	8,10	3/8	11/16-16	13.55	17.0	22	•	•	
8BML	12	1/2	13/16-16	16.60	20.0	24	•	•	
10BML	14,15,16	5/8	1-14	21.10	24.0	30	•	•	
12BML	18,20	3/4	1 3/16-12	24.15	26.5	36	•	•	
16BML	22,25	1	1 7/16-12	29.10	27.5	41	•		
20BML	28,30,32	1 1/4	1 11/16-12	36.00	27.5	50	•		
24BML	35,38	1 1/2	2-12	44.00	27.5	60	•		

**TPL**

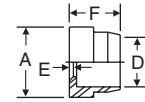
Parflange Sleeve for  
Inch Tubing  
ORFS Mechanically  
Attachable Sleeve



TUBE FITTING PART #	TUBE O.D. (in.)	D8 DIA. (in.)	L (in.)	STANDARD From Stock		
				S	SS	B
4 TPL	1/4	0.50	0.30	•	•	
6 TPL	3/8	0.62	0.34	•	•	
8 TPL	1/2	0.74	0.42	•	•	
10 TPL	5/8	0.92	0.42	•	•	
12 TPL	3/4	1.09	0.47	•	•	
16 TPL	1	1.34	0.53	•	•	
20 TPL	1 1/4	1.59	0.52	•	•	
24 TPL	1 1/2	1.91	0.49	•	•	
32 TPL	2	2.39	0.54	•		

**TL**

Braze Sleeve for Inch Tubing  
ORFS Silver Braze Sleeve



SAE 520115

TUBE FITTING PART #	TUBE O.D. (in.)	A DIA. (in.)	D* (in.)	E (in.)	F (in.)	STANDARD From Stock		
						S	SS	B
4 TL	1/4	0.50	0.26	0.04	0.37	•	•	
6 TL	3/8	0.62	0.38	0.04	0.37	•	•	
8 TL	1/2	0.75	0.51	0.04	0.37	•	•	
10 TL	5/8	0.92	0.63	0.06	0.41	•	•	
12 TL	3/4	1.10	0.76	0.06	0.55	•	•	
14 TL**	7/8	1.22	0.88	0.06	0.55			
16 TL	1	1.35	1.01	0.06	0.61	•	•	
20 TL	1 1/4	1.60	1.26	0.06	0.61	•	•	
24 TL	1 1/2	1.91	1.51	0.06	0.61	•	•	
32 TL**	2	2.41	2.01	0.06	0.65	•		

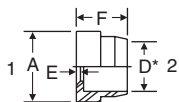
Unplated part, oil dipped for corrosion protection.

\* D is for silver brazing.

\*\* Sizes 14 and 32 are not included in SAE J1453.

### TL-Reducer

Reducer Sleeve  
ORFS Silver Braze Sleeve Reducer



SAE 520115

TUBE FITTING PART #	END SIZE		A (in.)	D (in.)	E (in.)	F (in.)	STANDARD From Stock		
	1 (in.)	2 (in.)					S	SS	B
6-4 TL	3/8	1/4	0.62	0.26	0.08	0.41	•	•	
8-4 TL	1/2	1/4	0.75	0.26	0.14	0.47	•	•	
8-6 TL	1/2	3/8	0.75	0.38	0.14	0.47	•	•	
10-4 TL	5/8	1/4	0.92	0.26	0.20	0.53	•		
10-6 TL	5/8	3/8	0.92	0.38	0.20	0.53	•		
10-8 TL	5/8	1/2	0.92	0.51	0.20	0.53	•		
12-4 TL	3/4	1/4	1.10	0.26	0.24	0.57	•	•	
12-6 TL	3/4	3/8	1.10	0.38	0.24	0.57	•		
12-8 TL	3/4	1/2	1.10	0.51	0.24	0.57	•		
12-10 TL	3/4	5/8	1.10	0.63	0.24	0.57	•		
12-14 TL	3/4	7/8	1.10	0.88	0.06	0.65	•		
16-8 TL	1	1/2	1.35	0.51	0.28	0.61	•		
16-10 TL	1	5/8	1.35	0.63	0.28	0.61	•		
16-12 TL	1	3/4	1.35	0.76	0.18	0.67	•	•	
16-14 TL	1	7/8	1.35	0.88	0.12	0.67	•		
20-12 TL	1 1/4	3/4	1.60	0.76	0.28	0.77	•		
20-16 TL	1 1/4	1	1.60	1.01	0.28	0.83	•	•	
24-16 TL	1 1/2	1	1.91	1.01	0.28	0.83	•		
24-20 TL	1 1/2	1 1/4	1.91	1.26	0.28	0.83	•	•	

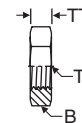
Unplated part, oil dipped for corrosion protection.

\* D is for silver brazing.

### WLNL

Bulkhead Locknut

SAE 520118



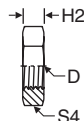
TUBE FITTING PART #	TUBE O.D. (in.)	T TUBE END UN/UNF-2B	B HEX (in.)	TT (in.)	STANDARD From Stock		
					S	SS	B
4 WLNL	1/4	9/16-18	13/16	0.27	•	•	
6 WLNL	3/8	11/16-16	1	0.32	•	•	
8 WLNL	1/2	13/16-16	1 1/8	0.35	•	•	
10 WLNL	5/8	1-14	1 5/16	0.41	•		
12 WLNL	3/4	1 3/16-12	1 1/2	0.41	•	•	
14 WLNL*	7/8	1 5/16-12	1 5/8	0.41	•		
16 WLNL	1	1 7/16-12	1 3/4	0.41	•		
20 WLNL	1 1/4	1 11/16-12	2	0.41	•		
24 WLNL	1 1/2	2-12	2 3/8	0.41	•		

\* Size 14 is not included in SAE J1453.

### WLMNL

Bulkhead Locknut – mm Hex

ISO 8434-3 BHLN  
SAE 52M0118



TUBE FITTING PART #	TUBE O.D.		D TUBE END UN/UNF-2B	H2 (mm)	S4 HEX (mm)	STANDARD From Stock		
	(mm)	(in.)				S	SS	B
4WLNML	6	1/4	9/16-18	7.0	22	•		
6WLNML	8,10	3/8	11/16-16	8.0	27	•		
8WLNML	12	1/2	13/16-16	9.0	30	•		
10WLNML	14,15,16	5/8	1-14	10.5	36	•		
12WLNML	18,20	3/4	1 3/16-12	10.5	41	•		
16WLNML	22,25	1	1 7/16-12	10.5	46	•		
20WLNML	28,30,32	1 1/4	1 11/16-12	10.5	50	•		
24WLNML	35,38	1 1/2	2-12	10.5	60	•		

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

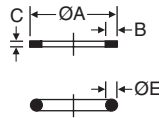
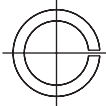
Adapters  
E

Accessories  
F

Appendices  
G

### SBR

Silver Braze Ring for Inch Tubing

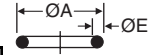
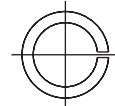


TUBE FITTING PART #	TUBE O.D. (in.)	A DIA. (in.)	B (in.)	C (in.)	E (in.)	STANDARD From Stock		
						S	SS	B
4 SBR	1/4	0.260	—	—	0.05	•	•	
6 SBR	3/8	0.390	0.07	0.03	—	•	•	
8 SBR	1/2	0.515	0.07	0.03	—	•	•	
10 SBR	5/8	0.640	0.07	0.03	—	•	•	
12 SBR	3/4	0.765	0.08	0.04	—	•	•	
14 SBR	7/8	0.890	—	—	0.06	•	•	
16 SBR	1	1.015	0.08	0.04	—	•	•	
20 SBR	1 1/4	1.265	0.08	0.04	—	•	•	
24 SBR	1 1/2	1.515	0.08	0.04	—	•	•	
32 SBR	2	2.015	—	—	0.09	•	•	

SBR recommended for steel or copper tubing.  
SBR-SS recommended for stainless tubing, but can be used on steel tubing.  
Contact the Tube Fittings Division for braze rings used in marine or special applications.

### SBR

Silver Braze Ring for Metric Tubing

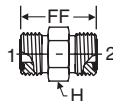


TUBE FITTING PART #	TUBE O.D. (mm)	A DIA. (mm)	E (mm)	STANDARD From Stock		
				S	SS	B
SBR 6mm	6	6.4	1.2	•	•	
SBR 8mm	8	8.4	1.2	•	•	
SBR 10mm	10	10.4	1.2	•	•	
SBR 12mm	12	12.4	1.2	•	•	
SBR 14mm	14	14.4	1.2	•	•	
SBR 15mm	15	15.4	1.2	•	•	
SBR 16mm	16	16.4	1.2	•	•	
SBR 18mm	18	18.4	1.2	•	•	
SBR 20mm	20	20.4	1.6	•	•	
SBR 22mm	22	22.4	1.6	•	•	
SBR 25mm	25	25.4	1.6	•	•	
SBR 28mm	28	28.4	1.6	•	•	
SBR 30mm	30	30.4	1.6	•	•	
SBR 32mm	32	32.4	1.6	•	•	
SBR 35mm	35	35.4	1.6	•	•	
SBR 38mm	38	38.4	1.6	•	•	
SBR 42mm	42	42.4	1.6	•	•	
SBR 50mm	50	50.4	2.4	•	•	

SBR recommended for steel or copper tubing.  
SBR-SS recommended for stainless tubing, but can be used on steel tubing.  
Contact the Tube Fittings Division for braze rings used in marine or special applications.

### HLO

Union  
ORFS / ORFS



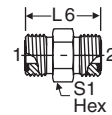
SAE 520101

TUBE FITTING PART #	END SIZE		FF (in.)	H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)			S	SS	B
4 HLO	1/4	1/4	1.08	5/8	9.2	9.2	
6 HLO	3/8	3/8	1.22	3/4	9.2	9.2	
6-4 HLO	3/8	1/4	1.17	3/4	9.2		
8 HLO	1/2	1/2	1.39	7/8	9.2	9.2	
8-6 HLO	1/2	3/8	1.33	7/8	9.2		
10 HLO	5/8	5/8	1.68	1 1/16	6.0	6.0	
10-8 HLO	5/8	1/2	1.57	1 1/16	6.0		
12 HLO	3/4	3/4	1.85	1 1/4	6.0	6.0	
12-10 HLO	3/4	5/8	1.80	1 1/4	6.0		
14 HLO*	7/8	7/8	1.87	1 3/8			
16 HLO	1	1	1.94	1 1/2	6.0	6.0	
16-12 HLO	1	3/4	1.92	1 1/2	6.0		
20 HLO	1 1/4	1 1/4	2.02	1 3/4	6.0		
24 HLO	1 1/2	1 1/2	2.09	2 1/8	5.0	5.0	
32 HLO*	2	2	2.87	2 3/4	3.0		

\* Sizes 14 and 32 are not included in SAE J1453.

### HMLO

Union – mm Hex  
ORFS / ORFS



ISO 8434-3 S  
SAE 52M0101

TUBE FITTING PART #	END SIZE		L6 (mm)	S1 HEX (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 2				S	SS	B
	(mm)	(in.)					
4HMLO	6	1/4	27.5	14	9.2		
6HMLO	8,10	3/8	31.0	19	9.2		
8HMLO	12	1/2	35.5	22	9.2		
10HMLO	14,15,16	5/8	42.5	27	6.0		
12HMLO	18,20	3/4	47.0	32	6.0		
16HMLO	22,25	1	49.5	41	6.0		
20HMLO	28,30,32	1 1/4	51.5	46	6.0		
24HMLO	35,38	1 1/2	53.0	55	5.0		

Hose  
A  
Fittings 21 Series  
B  
Parkrimp Crimping Equipment  
C  
Hose Assembly Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G



Hose

A

Fittings  
21 Series

B

Parkrimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

E

Accessories

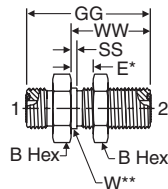
F

Appendices

G

# WLO

Bulkhead Union  
ORFS (all three ends)



TUBE FITTING PART #	END SIZE		B HEX (in.)	E MAX. (in.)	GG (in.)	SS (in.)	W DIA. (in.)	WW (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)							S	SS	B
	4 WLO	1/4							1/4	13/16	0.53
6 WLO	3/8	3/8	1	0.53	2.09	0.06	0.69	1.34	9.2	9.2	
8 WLO	1/2	1/2	1 1/8	0.53	2.30	0.06	0.81	1.44	9.2	9.2	
10 WLO	5/8	5/8	1 5/16	0.52	2.62	0.06	1.00	1.60	6.0		
12 WLO	3/4	3/4	1 1/2	0.50	2.72	0.06	1.19	1.64	6.0	6.0	
14 WLO*	7/8	7/8	1 5/8	0.51	2.76	0.06	1.31	1.66	6.0		
16 WLO	1	1	1 3/4	0.51	2.76	0.06	1.44	1.66	6.0	6.0	
20 WLO	1 1/4	1 1/4	2	0.51	2.76	0.06	1.69	1.66	6.0		
24 WLO	1 1/2	1 1/2	2 3/8	0.51	2.76	0.06	2.00	1.66	5.0		

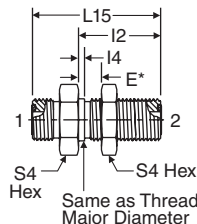
\* Sizes 14 and 32 are not included in SAE J1453.

\*\* W – Bulkhead pilot diameter. Recommended clearance hole is  $W \pm 0.015"$ .

# WMLO

Bulkhead Union – mm Hex  
ORFS / ORFS

ISO 8434-3 BHS  
SAE 52M0601

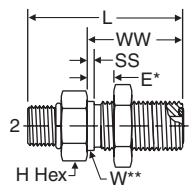


TUBE FITTING PART #	END SIZE		E (mm)	I 2 (mm)	I 4 (mm)	L15 (mm)	S4 HEX (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 2							S	SS	B
	(mm)	(in.)								
4WMLO	6	1/4	14	31.5	1.5	48.0	22	9.2		
6WMLO	8,10	3/8	14	34.0	1.5	53.0	27	9.2		
8WMLO	12	1/2	14	36.5	2.5	58.5	30	9.2		
10WMLO	14,15,16	5/8	14	40.5	2.5	66.5	36	6.0		
12WMLO	18,20	3/4	14	41.5	3.0	69.0	41	6.0		
16WMLO	22,25	1	14	42.0	3.0	70.0	46	6.0		
20WMLO	28,30,32	1 1/4	14	42.0	3.0	70.0	50	6.0		
24WMLO	35,38	1 1/2	14	42.0	3.0	70.0	60	5.0		

\* E – Maximum bulkhead thickness.

# WF5OLO

Straight Thread Bulkhead Connector  
ORFS / SAE-ORB



TUBE FITTING PART #	END SIZE		E MAX. (in.)	H HEX (in.)	L (in.)	SS (in.)	W DIA. (in.)	WW (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A							S	SS	B
	4 WF5OLO	1/4							7/16-20	0.53	13/16
4-6 WF5OLO	1/4	9/16-18	0.53	13/16	2.18	0.06	0.56	1.24	9.2		
6 WF5OLO	3/8	9/16-18	0.53	1	2.31	0.06	0.69	1.34	9.2		
8 WF5OLO	1/2	3/4-16	0.53	1 1/8	2.60	0.06	0.81	1.44	9.2		
10 WF5OLO	5/8	7/8-14	0.52	1 5/16	2.69	0.06	1.00	1.60	6.0		
12 WF5OLO	3/4	1 1/16-12	0.50	1 1/2	2.89	0.06	1.19	1.64	6.0		

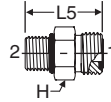
\* E – Maximum bulkhead thickness.

\*\* W – Bulkhead pilot diameter. Recommended clearance hole is  $W + 0.015"$ .



### F5OLO

Straight Thread Connector  
ORFS / SAE-ORB



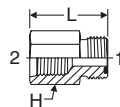
SAE 520120

TUBE FITTING PART #	END SIZE		H HEX (in.)	L5 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A			S	SS	B
	4 F5OLO	1/4					
4-5 F5OLO	1/4	1/2-20	5/8	1.13	9.2		
4-6 F5OLO	1/4	9/16-18	3/4	1.20	9.2	9.2	
4-8 F5OLO	1/4	3/4-16	7/8	1.32	9.2		
6 F5OLO	3/8	9/16-18	3/4	1.25	9.2	9.2	
6-4 F5OLO	3/8	7/16-20	3/4	1.34	9.2	9.2	
6-5 F5OLO	3/8	1/2-20	3/4	1.22	9.2		
6-8 F5OLO	3/8	3/4-16	7/8	1.38	9.2	9.2	
6-10 F5OLO	3/8	7/8-14	1	1.53	9.2		
6-12 F5OLO	3/8	1 1/16-12	1 1/4	1.68	9.2		
8 F5OLO	1/2	3/4-16	7/8	1.44	9.2	9.2	
8-4 F5OLO	1/2	7/16-20	7/8	1.43	9.2		
8-6 F5OLO	1/2	9/16-18	7/8	1.47	6.0	9.2	
8-10 F5OLO	1/2	7/8-14	1	1.59	6.0		
8-12 F5OLO	1/2	1 1/16-12	1 1/4	1.75	6.0		
8-16 F5OLO	1/2	1 5/16-12	1 1/2	1.79	6.0		
10 F5OLO	5/8	7/8-14	1 1/16	1.70	6.0	6.0	
10-6 F5OLO	5/8	9/16-18	1 1/16	1.65	6.0		
10-8 F5OLO	5/8	3/4-16	1 1/16	1.78	6.0		
10-12 F5OLO	5/8	1 1/16-12	1 1/4	1.86	6.0		
10-16 F5OLO	5/8	1 5/16-12	1 1/2	1.90	6.0		
12 F5OLO	3/4	1 1/16-12	1 1/4	1.92	6.0	6.0	
12-8 F5OLO	3/4	3/4-16	1 1/4	1.91	6.0	6.0	
12-10 F5OLO	3/4	7/8-14	1 1/4	1.99	6.0	6.0	
12-16 F5OLO	3/4	1 5/16-12	1 1/2	1.96	6.0	6.0	
14 F5OLO *	7/8	1 3/16-12	1 3/8	1.91			
16 F5OLO	1	1 5/16-12	1 1/2	1.98	6.0	6.0	
16-10 F5OLO	1	7/8-14	1 1/2	2.04	6.0		
16-12 F5OLO	1	1 1/16-12	1 1/2	2.14	6.0		
16-20 F5OLO	1	1 5/8-12	1 7/8	2.06	6.0		
20 F5OLO	1 1/4	1 5/8-12	1 7/8	2.06	6.0	6.0	
20-16 F5OLO	1 1/4	1 5/16-12	1 7/8	2.28	6.0	6.0	
20-24 F5OLO	1 1/4	1 7/8-12	2 1/8	2.13	5.0		
24 F5OLO	1 1/2	1 7/8-12	2 1/8	2.13	5.0	5.0	
24-20 F5OLO	1 1/2	1 5/8-12	2 1/8	2.35	5.0		
32 F5OLO *	2	2 1/2-12	2 3/4	2.32	3.0		

\* Sizes 14 and 32 are not included in SAE J1453.

### G5LO

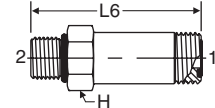
Female Straight Thread Connector  
ORFS / SAE-ORB



TUBE FITTING PART #	END SIZE		H HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 UN/UNF-2A	2 UN/UNF-2B			S	SS	B
	4 G5LO	9/16-18					
6-4 G5LO	11/16-16	7/16-20	3/4	1.08	6.0		
8-4 G5LO	13/16-16	7/16-20	7/8	0.78	6.0		

### FF5OLO

Long Straight Thread Connector  
ORFS-Long / SAE-ORB

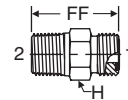


SAE 521720 (previously 520122)

TUBE FITTING PART #	END SIZE		H HEX (in.)	L6 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A			S	SS	B
	4 FF5OLO	1/4					
6 FF5OLO	3/8	9/16-18	3/4	2.27	9.2		
8 FF5OLO	1/2	3/4-16	7/8	2.68	9.2	9.2	
10 FF5OLO	5/8	7/8-14	1 1/16	3.13	6.0		
12 FF5OLO	3/4	1 1/16-12	1 1/4	3.76	6.0		
16 FF5OLO	1	1 5/16-12	1 1/2	4.14	6.0		
20 FF5OLO	1 1/4	1 5/8-12	1 7/8	4.76	6.0		
24 FF5OLO	1 1/2	1 7/8-12	2 1/8	5.26	5.0		

### FLO

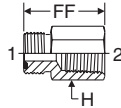
Male Pipe Connector  
ORFS / NPTF



TUBE FITTING PART #	END SIZE		FF (in.)	H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 NPTF			S	SS	B
	4 FLO	1/4					
4-4 FLO	1/4	1/4-18	1.26	5/8	6.0	6.0	
4-6 FLO	1/4	3/8-18	1.32	3/4	6.0	6.0	
4-8 FLO	1/4	1/2-14	1.52	7/8	6.0	6.0	
6 FLO	3/8	1/4-18	1.25	3/4	6.0	6.0	
6-6 FLO	3/8	3/8-18	1.34	3/4	6.0	6.0	
6-8 FLO	3/8	1/2-14	1.55	7/8	6.0	6.0	
8 FLO	1/2	3/8-18	1.48	7/8	6.0	6.0	
8-4 FLO	1/2	1/4-18	1.48	7/8	6.0	6.0	
8-8 FLO	1/2	1/2-14	1.64	7/8	6.0	6.0	
8-12 FLO	1/2	3/4-14	1.69	1 1/8	6.0	6.0	
10 FLO	5/8	1/2-14	1.82	1 1/16	6.0	6.0	
10-6 FLO	5/8	3/8-18	1.63	1 1/16	6.0		
10-12 FLO	5/8	3/4-14	1.82	1 1/8	5.5		
12 FLO	3/4	3/4-14	1.93	1 1/4	5.5	6.0	
12-8 FLO	3/4	1/2-14	1.93	1 1/4	6.0		
12-16 FLO	3/4	1-11 1/2	2.13	1 3/8	4.5		
14 FLO	7/8	3/4-14	2.00	1 3/8			
16 FLO	1	1-11 1/2	2.19	1 1/2	4.5	4.5	
16-12 FLO	1	3/4-14	2.00	1 1/2	5.5		
16-20 FLO	1	1 1/4-11 1/2	2.30	1 3/4	3.0		
20 FLO	1 1/4	1 1/4-11 1/2	2.30	1 7/8	3.0	4.0	
20-16 FLO	1 1/4	1-11 1/2	2.27	1 7/8	4.5		
24 FLO	1 1/2	1 1/2-11 1/2	2.40	2 1/8	3.0		
32 FLO	2	2-11 1/2	2.79	2 3/4		1.8	

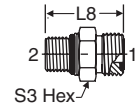
**GLO**

Female Pipe Connector  
ORFS / Female Pipe



**F87OMLO**

Metric Straight Thread Connector  
ORFS / ISO 6149



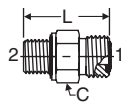
ISO 8434-3 SDS  
SAE 52M0187

TUBE FITTING PART #	END SIZE		FF (in.)	H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 NPTF			S	SS	B
	4-4 GLO	1/4			1/4-18	1.25	3/4
6 GLO	3/8	1/4-18	1.30	3/4	6.0	6.0	
8-4 GLO	1/2	1/4-18	1.20	7/8	6.0	6.0	

TUBE FITTING PART #	END SIZE			L8 (mm)	S3 HEX (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1		2			S	SS	B
	(mm)	(in.)	ISO 261					
4M12F87OMLO	6	1/4	M12x1.5	28.5	17	9.2		
4M14F87OMLO	6	1/4	M14x1.5	29.5	19			
6M12F87OMLO	8,10	3/8	M12x1.5	32.0	19	9.2		
6M14F87OMLO	8,10	3/8	M14x1.5	32.0	19	9.2		
6M16F87OMLO	8,10	3/8	M16x1.5	33.5	22	9.2		
6M18F87OMLO	8,10	3/8	M18x1.5	36.0	24	9.2		
8M14F87OMLO	12	1/2	M14x1.5	35.0	22	9.2		
8M16F87OMLO	12	1/2	M16x1.5	36.5	24	9.2		
8M18F87OMLO	12	1/2	M18x1.5	38.0	24	9.2		
8M22F87OMLO	12	1/2	M22x1.5	39.5	27	6.0		
8M27F87OMLO	12	1/2	M27x2	44.0	32	6.0		
10M18F87OMLO	14,15,16	5/8	M18x1.5	41.0	27	6.0		
10M22F87OMLO	14,15,16	5/8	M22x1.5	42.0	27	6.0		
10M27F87OMLO	14, 15, 16	5/8	M27x2	47.0	32	6.0		
12M22F87OMLO	18,20	3/4	M22x1.5	45.0	32	6.0		
12M27F87OMLO	18,20	3/4	M27x2	48.5	32	6.0		
12M33F87OMLO	18,20	3/4	M33x2	51.5	41			
16M33F87OMLO	22,25	1	M33x2	52.0	41	6.0		
20M38F87OMLO*	28,30,32	1 1/4	M38x2	53.0	46	6.0		
20M42F87OMLO	28,30,32	1 1/4	M42x2	54.5	50	5.0		
24M48F87OMLO	35,38	1 1/2	M48x2	57.0	55			

**F42EDMLO**

Male Connector – BSPP  
(for ISO 1179-1 Port)  
ORFS / BSPP-ED

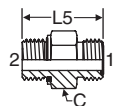


\* M38X2 is not included in ISO 6149.

TUBE FITTING PART #	END SIZE			C HEX (mm)	L (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1		2			S	SS	B
	(mm)	(in.)	BSPP					
4F42EDMLO	6	1/4	1/8 - 28	17	25.7	9.2	9.2	
4-4F42EDMLO	6	1/4	1/4 - 19	19	30.9	9.2		
4-6F42EDMLO	6	1/4	3/8 - 19	22	31.6	9.2		
4-8F42EDMLO	6	1/4	1/2 - 14	27	38.4	6.0		
6F42EDMLO	8,10	3/8	1/4 - 19	19	31.9	9.2	9.2	
6-2F42EDMLO	8,10	3/8	1/8 - 28	19	31.1	9.2		
6-6F42EDMLO	8,10	3/8	3/8 - 19	22	33.5	9.2		
6-8F42EDMLO	8,10	3/8	1/2 - 14	27	38.5	6.0	6.0	
6-12F42EDMLO	8,10	3/8	3/4 - 14	32	40.3	6.0		
8F42EDMLO	12	1/2	3/8 - 19	22	34.6	9.2	9.2	
8-4F42EDMLO	12	1/2	1/4 - 19	22	36.7	9.2		
8-8F42EDMLO	12	1/2	1/2 - 14	27	40.1	6.0	6.0	
8-12F42EDMLO	12	1/2	3/4 - 14	32	41.9	6.0		
10F42EDMLO	14,15,16	5/8	1/2 - 14	27	41.1	6.0	6.0	
10-6F42EDMLO	14,15,16	5/8	3/8 - 19	27	42.4	9.2		
10-12F42EDMLO	14,15,16	5/8	3/4 - 14	32	44.3	6.0		
10-16F42EDMLO	14,15,16	5/8	1 - 11	41	47.8			
12F42EDMLO	18,20	3/4	3/4 - 14	32	46.1	6.0	6.0	
12-8F42EDMLO	18,20	3/4	1/2 - 14	32	48.5	6.0		
12-16F42EDMLO	18,20	3/4	1 - 11	41	47.5	6.0		
12-20F42EDMLO	18,19,20	3/4	1 1/4 - 11	50	53.5			
16F42EDMLO	22,25	1	1 - 11	41	49.8	6.0		
16-12F42EDMLO	22,25	1	3/4 - 14	38	50.3	6.0		
16-20F42EDMLO	22,25	1	1 1/4 - 11	50	53.8	6.0		
16-24F42EDMLO	22,25	1	1 1/2 - 11	55	57.5	5.0		
20F42EDMLO	28,30,32	1 1/4	1 1/4 - 11	50	53.8	6.0		
20-16F42EDMLO	28,30,32	1 1/4	1 - 11	48	57.3	6.0		
20-24F42EDMLO	28,30,32	1 1/4	1 1/2 - 11	55	57.6	5.0		
24F42EDMLO	38	1 1/2	1 1/2 - 11	55	57.6	5.0		

**F82EDMLO**

Male Connector – Metric  
(for ISO 9974-1 Port)  
ORFS / Metric-ED



TUBE FITTING PART #	END SIZE			C HEX (mm)	L5 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1		2			S	SS	B
	(mm)	(in.)	Metric					
4M12F82EDMLO	6	1/4	M12x1.5	17	29.7	9.2		
6M14F82EDMLO	8, 10	3/8	M14x1.5	22	32.0	9.2		
6M16F82EDMLO	8,10	3/8	M16x1.5	22	32.0	9.2		
8M18F82EDMLO	12	1/2	M18x1.5	24	34.6	9.2		
10M22F82EDMLO	14,15,16	5/8	M22x1.5	27	41.1	6.0		
12M27F82EDMLO	18,20	3/4	M27x2	32	46.1	6.0		
16M33F82EDMLO	22,25	1	M33x2	41	49.8	6.0		
20M42F82EDMLO	28,30,32	1 1/4	M42x2	50	53.8	5.0		

Hose

A

Fittings  
21 Series

B

Parkrimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

E

Accessories

F

Appendices

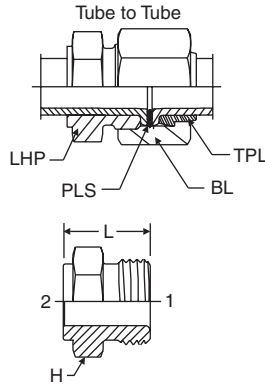
G

## LHP

Flange - Seal Connector  
Tube-to-Tube

TUBE FITTING PART #	END SIZE 1 & 2 (in.)	H HEX (in.)	L (in.)	Max. Tube Wall Thickness (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					S	SS	B
					4 LHP	1/4	5/8
6 LHP	3/8	3/4	0.69	0.065	5.0		
8 LHP	1/2	7/8	0.79	0.095	5.5		
10 LHP	5/8	1 1/16	0.95	0.095	4.5		
12 LHP	3/4	1 1/4	1.00	0.120	4.5		
16 LHP	1	1 1/2	1.02	0.120	3.5		

See page O3 of Catalog 4300 for the required PLS bonded seal.  
For availability of Parflange tooling, please contact the Tube Fittings Division.

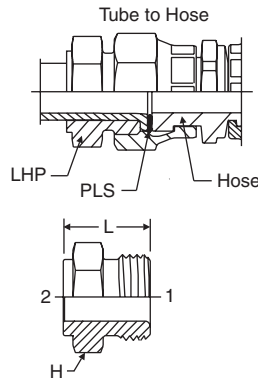


## LHP

Flange - Seal Connector  
Tube-to-Hose

TUBE FITTING PART #	END SIZE 1 & 2 (in.)	H HEX (in.)	L (in.)	Max. Tube Wall Thickness (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					S	SS	B
					4 LHP	1/4	5/8
6 LHP	3/8	3/4	0.69	0.083	6.0		
8 LHP	1/2	7/8	0.79	0.120	6.0		
10 LHP	5/8	1 1/16	0.95	0.120	6.0		
12 LHP	3/4	1 1/4	1.00	0.134	5.5		
16 LHP	1	1 1/2	1.02	0.120	3.5		

See page O3 of Catalog 4300 for the required PLS bonded seal.  
For availability of Parflange tooling, please contact the Tube Fittings Division.

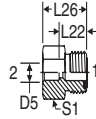


A	Hose
B	Fittings 21 Series
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices

Hose  
**A**

### MMLOHB3

Braze Connector  
ORFS / Braze Socket



ISO 8434-3 BRS  
SAE 52M0104

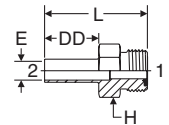
TUBE FITTING PART #	END SIZE		D5 TUBE SOCKET (mm)	L22 (mm)	L26 (mm)	S1 HEX (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)			
	1	2					S	SS	B	
	(mm)	(in.)								
4-6MMLOHB3	6	1/4	6	6.15	13.5	22.0	17	9.2		
4-8MMLOHB3	6	1/4	8	8.15	13.5	22.0	17	9.2		
6-10MMLOHB3	8, 10	3/8	10	10.15	14.5	23.0	19	9.2		
8-12MMLOHB3	12	1/2	12	12.15	16.0	24.5	22	9.2		
10-16MMLOHB3	14, 15, 16	5/8	16	16.15	19.0	27.5	27	6.0		
12-20MMLOHB3	18, 20	3/4	20	20.18	21.0	33.5	32	6.0		
16-25MMLOHB3	22, 25	1	25	25.18	24.5	38.5	41	6.0		
20-30MMLOHB3	28, 30, 32	1 1/4	30	30.20	24.5	38.5	46	6.0		
24-38MMLOHB3	35, 38	1 1/2	38	38.20	24.5	38.5	55	5.0		

\* D5 is for silver brazing. Standard steel parts are not recommended for welding.

Fittings  
21 Series  
**B**

### LOHT3

Tube Stub Connector  
ORFS / Tube Weld



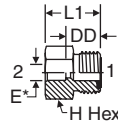
TUBE FITTING PART #	END SIZE		DD (in.)	E DIA. (in.)	H HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1	2					S	SS*	B
	(in.)	(in.)							
4 LOHT3	1/4	1/4	0.88	0.25	5/8	1.58		•	
6 LOHT3	3/8	3/8	0.88	0.38	3/4	1.67		•	
8 LOHT3	1/2	1/2	1.00	0.50	7/8	1.89		•	
12 LOHT3	3/4	3/4	1.16	0.75	1 1/4	2.35		•	
16 LOHT3	1	1	1.13	1.00	1 1/2	2.40		•	

\* Contact Tube Fittings Division for pressure ratings.

Parkrimp  
Crimping  
Equipment  
**C**

### LOHB3

Braze Connector  
ORFS / Braze Socket



SAE 520104

TUBE FITTING PART #	END SIZE		DD (in.)	E* DIA. (in.)	H HEX (in.)	L1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1	2					S	SS	B
	(in.)	(in.)							
4 LOHB3	1/4	1/4	0.52	0.26	5/8	0.86	9.2		
4-6 LOHB3	1/4	3/8	0.52	0.38	5/8	0.86	9.2		
6 LOHB3	3/8	3/8	0.56	0.38	3/4	0.90	9.2		
6-4 LOHB3	3/8	1/4	0.56	0.26	3/4	0.90	9.2		
6-8 LOHB3	3/8	1/2	0.56	0.51	3/4	0.90	9.2		
8 LOHB3	1/2	1/2	0.63	0.51	7/8	0.97	9.2		
8-4 LOHB3	1/2	1/4	0.64	0.26	7/8	0.97	9.2		
8-6 LOHB3	1/2	3/8	0.63	0.38	7/8	0.97	9.2		
8-10 LOHB3	1/2	5/8	0.63	0.63	7/8	0.97	6.0		
8-12 LOHB3	1/2	3/4	0.67	0.76	1 1/16	1.16	6.0		
10 LOHB3	5/8	5/8	0.73	0.63	1 1/16	1.07	6.0		
10-6 LOHB3	5/8	3/8	0.73	0.38	1 1/16	1.07	6.0		
10-8 LOHB3	5/8	1/2	0.73	0.51	1 1/16	1.07	6.0		
10-12 LOHB3	5/8	3/4	0.74	0.76	1 1/16	1.23	6.0		
12 LOHB3	3/4	3/4	0.83	0.76	1 1/4	1.32	6.0		
12-8 LOHB3	3/4	1/2	0.83	0.51	1 1/4	1.16	6.0		
12-10 LOHB3	3/4	5/8	0.83	0.63	1 1/4	1.16	6.0		
12-16 LOHB3	3/4	1	0.83	1.01	1 1/2	1.38	6.0		
14 LOHB3**	7/8	7/8	0.97	0.88	1 3/8	1.52			
16 LOHB3	1	1	0.97	1.01	1 1/2	1.52	6.0		
16-8 LOHB3	1	1/2	0.97	0.51	1 1/2	1.30	6.0		
16-12 LOHB3	1	3/4	0.97	0.76	1 1/2	1.46	6.0		
16-20 LOHB3	1	1 1/4	0.97	1.26	1 3/4	1.52	6.0		
20 LOHB3	1 1/4	1 1/4	0.97	1.26	1 3/4	1.52	6.0		
20-16 LOHB3	1 1/4	1	0.97	1.01	1 3/4	1.52	6.0		
20-24 LOHB3	1 1/4	1 1/2	0.97	1.51	2 1/8	1.52	5.0		
24 LOHB3	1 1/2	1 1/2	0.97	1.51	2 1/8	1.52	5.0		
24-20 LOHB3	1 1/2	1 1/4	0.97	1.26	2 1/8	1.52	5.0		

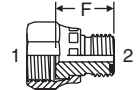
\* E is for silver brazing. Standard steel parts are not recommended for welding.

\*\* Size 14 is no included in SAE J1453.

Hose  
Assembly  
Equipment  
**D**

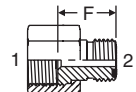
### TRLON

Tube End Reducer  
ORFS Swivel / ORFS Tube End



SAE 520123 (body only)  
SAE 520123A (body with large nut)

\* Assembled with Crimp Nut



\*\* Assembled with Large BL Nut

TUBE FITTING PART #	END SIZE		F (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)	
	1	2		S	SS
	(in.)	(in.)			
6-4 TRLON*	3/8	1/4	0.77	9.2	9.2
8-4 TRLON**	1/2	1/4	0.86	9.2	9.2
8-6 TRLON*	1/2	3/8	0.88	9.2	9.2
10-4 TRLON**	5/8	1/4	0.90	6.0	
10-6 TRLON**	5/8	3/8	0.95	6.0	
10-8 TRLON**	5/8	1/2	1.02	6.0	6.0
12-4 TRLON**	3/4	1/4	0.98	6.0	
12-6 TRLON**	3/4	3/8	1.03	6.0	6.0
12-8 TRLON**	3/4	1/2	1.09	6.0	6.0
12-10 TRLON*	3/4	5/8	1.16	6.0	
16-8 TRLON**	1	1/2	1.15	6.0	6.0
16-10 TRLON**	1	5/8	1.26	6.0	
16-12 TRLON*	1	3/4	1.30	6.0	6.0
20-12 TRLON**	1 1/4	3/4	1.32	5.0	5.0
20-16 TRLON*	1 1/4	1	1.51	5.0	
24-16 TRLON**	1 1/2	1	1.23	4.0	4.0
24-20 TRLON**	1 1/2	1 1/4	1.35	4.0	
32-20 TRLON**	2	1 1/4	1.42	3.0	
32-24 TRLON**	2	1 1/2	1.42	3.0	

\* Assembled with crimp nut.

\*\* Assembled with large BL nut. To order reducer without large nut, remove the "N" from the part number (i.e., TRL0).

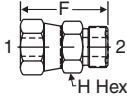
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

### LOHL6

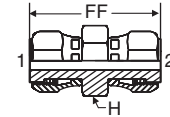
Tube End Extender / Expander  
ORFS / ORFS Swivel



TUBE FITTING PART #	END SIZE		F (in.)	H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A			S	SS	B
	4 LOHL6	1/4			9/16-18	1.33	5/8
6 LOHL6	3/8	11/16	1.44	3/4	9.2		
6-4 LOHL6	3/8	11/16-16	1.37	3/4	9.2		
8 LOHL6	1/2	13/16-16	1.67	7/8	9.2		
8-6 LOHL6	1/2	13/16-16	1.52	7/8	9.2		
10-8 LOHL6	5/8	1-14	1.81	1 1/16	6.0		
12-10 LOHL6	3/4	1 3/16-12	1.99	1 1/4	6.0		
16-12 LOHL6	1	1 7/16-12	2.16	1 1/2	6.0		
20-16 LOHL6	1 1/4	1 11/16-12	2.28	1 3/4	5.0		
24-20 LOHL6	1 1/2	2-12	2.35	2 1/8	4.0		

### HL6

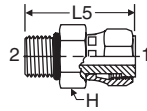
Swivel Nut Union  
ORFS Swivel / ORFS Swivel



TUBE FITTING PART #	END SIZE		FF (in.)	H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)			S	SS	B
	4 HL6	1/4			1/4	1.59	5/8
6 HL6	3/8	3/8	1.77	3/4	9.2		
8 HL6	1/2	1/2	2.12	7/8	9.2		
10 HL6	5/8	5/8	2.42	1 1/16	6.0		
12 HL6	3/4	3/4	2.74	1 1/4	6.0		
16 HL6	1	1	2.95	1 7/16	6.0		
20 HL6	1 1/4	1 1/4	3.12	1 3/4			
24 HL6	1 1/2	1 1/2	3.33	2 1/8			

### F65OL

Straight Thread Swivel Connector  
ORFS Swivel / SAE-ORB

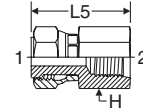


SAE 520181

TUBE FITTING PART #	END SIZE		H HEX (in.)	L5 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A			S	SS	B
	4 F65OL	1/4			7/16-20	5/8	1.46
6 F65OL	3/8	9/16-18	3/4	1.58	9.2		
8 F65OL	1/2	3/4-16	7/8	1.95	9.2		
10 F65OL	5/8	7/8-14	1 1/16	2.13	6.0		
12 F65OL	3/4	1 1/16-12	1 1/4	2.34	6.0		
16 F65OL	1	1 5/16-12	1 1/2	2.66	6.0		
20 F65OL	1 1/4	1 5/8-12	1 3/4	2.66	5.0		

### G65L

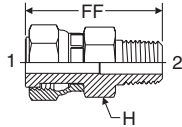
Straight Thread Swivel  
Female Connector  
ORFS Swivel / SAE-ORB



TUBE FITTING PART #	END SIZE		H HEX (in.)	L5 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2B			S	SS	B
	4 G65L	1/4			7/16-20	11/16	1.38
4-6 G65L	1/4	9/16-18	13/16	1.45	6.0	6.0	
6-4 G65L	3/8	7/16-20	3/4	1.51	6.0	6.0	
8-4 G65L	1/2	7/16-20	7/8	1.57	6.0	6.0	
8-6 G65L	1/2	9/16-18	7/8	1.60	6.0	6.0	
12 G65L	3/4	1 1/16-12	1 3/8	2.27	4.2	4.2	
16-4 G65L	1	7/16-20	1 3/8	1.55	6.0	6.0	
24-4 G65L	2	7/16-20	2	1.84	4.0	4.0	

### F6L

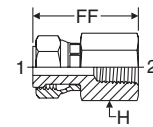
Pipe Thread Swivel  
Connector  
ORFS Swivel / NPTF



TUBE FITTING PART #	END SIZE		FF (in.)	H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 NPTF			S	SS	B
	4 F6L	1/4			1/8-27	1.33	5/8
4-4 F6L	1/4	1/4-18	1.52	5/8	6.0		
6 F6L	3/8	1/4-18	1.69	3/4	6.0		
6-6 F6L	3/8	3/8-18	1.67	3/4	6.0		
8 F6L	1/2	3/8-18	1.95	3/4	6.0		
8-8 F6L	1/2	1/2-14	2.14	7/8	6.0		
10 F6L	5/8	1/2-14	2.29	1 1/16	6.0		
12 F6L	3/4	3/4-14	2.37	1 1/4	5.5		
16 F6L	1	1-11 1/2	2.87	1 1/2	4.5		

### G6L

Female Pipe Thread Swivel  
Connector  
ORFS Swivel / NPTF



TUBE FITTING PART #	END SIZE		FF (in.)	H (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 NPTF			S	SS	B
	4-4 G6L	1/4			1/4-18	1.48	3/4
6 G6L	3/8	1/4-18	1.60	7/8	6.0		
8-4 G6L	1/2	1/4-18	1.75	7/8	6.0		

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose

A

Fittings  
21 Series

B

Parkrimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

E

Accessories

F

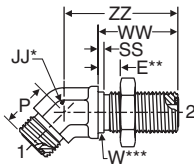
Appendices

G

# WNLO

45° Bulkhead Union Elbow  
ORFS / ORFS

SAE 520801



TUBE FITTING PART #	END SIZE		E MAX. (in.)	JJ (in.)	P (in.)	SS (in.)	W DIA. (in.)	WW (in.)	ZZ (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)								S	SS	B
	4 WNLO	1/4								1/4	0.53	9/16
6 WNLO	3/8	3/8	0.53	3/4	0.74	0.06	0.69	1.34	1.91	9.2		
8 WNLO	1/2	1/2	0.53	3/4	0.80	0.06	0.81	1.44	2.01	9.2		
10 WNLO	5/8	5/8	0.52	1 1/16	0.92	0.06	1.00	1.60	2.23	6.0		
12 WNLO	3/4	3/4	0.50	1 3/16	1.02	0.06	1.19	1.64	2.39	6.0		
16 WNLO	1	1	0.51	1 7/16	1.18	0.06	1.44	1.66	2.57	6.0		
20 WNLO	1 1/4	1 1/4	0.51	1 5/8	1.26	0.06	1.69	1.66	2.64	5.0		
24 WNLO	1 1/2	1 1/2	0.51	1 7/8	1.45	0.06	2.00	1.66	2.64	4.0		

\* JJ – Across wrench flats.

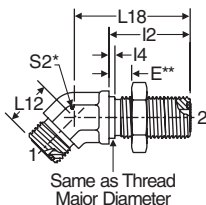
\*\* E – Maximum bulkhead thickness.

\*\*\* W – Bulkhead pilot diameter. Recommended clearance hole is W + 0.015".

# WNMLO

45° Bulkhead Union Elbow – mm Hex  
ORFS / ORFS

ISO 8434-3 BHE45  
SAE 52M0801



Same as Thread  
Major Diameter

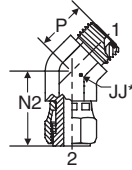
TUBE FITTING PART #	END SIZE		E (mm)	I 2 (mm)	I 4 (mm)	L12 (mm)	L18 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 (in.)							S	SS	B
	4WNMLO	6							1/4	14	31.5
6WNMLO	8,10	3/8	14	34.0	1.5	19.0	48.5	19			
8WNMLO	12	1/2	14	36.5	2.5	20.5	51.0	19			
10WNMLO	14,15,16	5/8	14	40.5	2.5	23.5	56.5	27	6.0		
12WNMLO	18,20	3/4	14	41.5	3.0	26.0	60.5	30			
16WNMLO	22,25	1	14	42.0	3.0	30.0	65.0	36			
20WNMLO	28,30,32	1 1/4	14	42.0	3.0	32.0	67.0	41	5.0		
24WNMLO	35,38	1 1/2	14	42.0	3.0	37.0	67.0	50	4.0		

\* S2 – Across Wrench Flats.

\*\* E – Maximum bulkhead thickness.

V6LO

45° Swivel Nut Elbow  
ORFS / ORFS Swivel

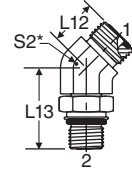


\* JJ – Across  
Wrench Flats

TUBE FITTING PART #	END SIZE		JJ (in.)	N2 (in.)	P (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)			
	1 & 2 (in.)						S	SS	B
	4 V6LO	1/4				9/16	0.99	0.63	9.2
6 V6LO	3/8	3/4	1.12	0.74	9.2				
8 V6LO	1/2	3/4	1.49	0.80	9.2				
10 V6LO	5/8	1 1/16	1.53	0.92	6.0				
12 V6LO	3/4	1 3/16	1.73	1.02	6.0				
16 V6LO	1	1 7/16	1.87	1.18	6.0				
20 V6LO	1 1/4	1 5/8	1.98	1.26	5.0				
24 V6LO	1 1/2	1 7/8	2.06	1.45	4.0				

V87OMLO

45° Metric Straight Thread Elbow  
ORFS / ISO 6149



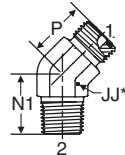
\* S2 – Across  
Hex Flats

ISO 8434-3 SDE45  
SAE 52M0387

TUBE FITTING PART #	END SIZE		L12 (mm)	L13 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)			
	1 (mm)	2 (in.)				ISO 261	S	SS	B
	4M12V87OMLO	6				1/4	M12x1.5	16.0	30.0
4M14V87OMLO	6	1/4	M14x1.5	18.0	31.5	17			
6M16V87OMLO	8,10	3/8	M16x1.5	19.0	33.5	17	6.0		
8M18V87OMLO	12	1/2	M18x1.5	20.5	37.0	19	6.0		
10M22V87OMLO	14,15,16	5/8	M22x1.5	23.5	44.0	27	6.0		
12M27V87OMLO	18,20	3/4	M27x2	26.0	50.5	27	6.0		
16M33V87OMLO	22,25	1	M33x2	30.0	52.5	36	5.0		
20M42V87OMLO	28,30,32	1 1/4	M42x2	32.0	54.0	41	4.0		
24M48V87OMLO	35,38	1 1/2	M48x2	37.0	56.5	50			

VLO

45° Male Elbow  
ORFS / NPTF

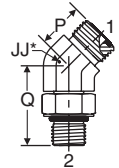


\* JJ – Across  
Wrench Flats

TUBE FITTING PART #	END SIZE		JJ (in.)	N1 (in.)	P (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 NPTF						
	4 VLO	1/4				1/8-27	9/16	0.64
4-4 VLO	1/4	1/4-18	9/16	0.86	0.68	6.0		
6 VLO	3/8	1/4-18	3/4	0.87	0.74	6.0		
6-6 VLO	3/8	3/8-18	3/4	0.87	0.74	6.0		
8 VLO	1/2	3/8-18	3/4	0.95	0.80	6.0		
8-8 VLO	1/2	1/2-14	7/8	1.17	0.86	6.0		
10 VLO	5/8	1/2-14	1 1/16	1.17	0.92	6.0		
12 VLO	3/4	3/4-14	1 5/16	1.30	1.02	4.0		
16 VLO	1	1-11 1/2	1 7/16	1.48	1.18	3.0		
20 VLO	1 1/4	1 1/4-11 1/2	1 5/8	1.67	1.26	2.5		

V5OLO

45° Straight Thread Elbow  
ORFS / SAE-ORB



\* JJ – Across Hex  
Flats

SAE 520320

TUBE FITTING PART #	END SIZE		JJ (in.)	P (in.)	Q (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A				S	SS	B
	4 V5OLO	1/4				7/16-20	9/16	0.63
4-6 V5OLO	1/4	9/16-18	3/4	0.68	1.30	6.0		
6 V5OLO	3/8	9/16-18	3/4	0.74	1.30	6.0	6.0	
6-4 V5OLO	3/8	7/16-20	3/4	0.74	1.22	6.0		
6-8 V5OLO	3/8	3/4-16	3/4	0.74	1.43	6.0		
8 V5OLO	1/2	3/4-16	3/4	0.80	1.43	6.0	6.0	
8-6 V5OLO	1/2	9/16-18	3/4	0.80	1.27	6.0		
8-10 V5OLO	1/2	7/8-14	3/4	0.82	1.76	6.0		
10 V5OLO	5/8	7/8-14	1 1/16	0.92	1.76	6.0	6.0	
10-8 V5OLO	5/8	3/4-16	1 1/16	0.92	1.59	6.0		
10-12 V5OLO	5/8	1 1/16-12	1 3/16	0.96	1.97	6.0		
12 V5OLO	3/4	1 1/16-12	1 3/16	1.02	1.97	6.0		
12-10 V5OLO	3/4	7/8-14	1 3/16	1.02	1.81	6.0	6.0	
12-16 V5OLO	3/4	1 5/16-12	1 7/16	1.16	2.06	5.5		
14 V5OLO**	7/8	1 3/16-12	1 5/16	1.18	2.03			
16 V5OLO	1	1 5/16-12	1 7/16	1.18	2.06	5.5		
16-10 V5OLO	1	7/8-14	1 7/16	1.18	1.89	6.0		
16-12 V5OLO	1	1 1/16-12	1 7/16	1.18	2.03	6.0		
16-20 V5OLO	1	1 5/8-12	1 5/8	1.26	2.11	4.0		
20 V5OLO	1 1/4	1 5/8-12	1 5/8	1.26	2.11	4.0	4.0	
24 V5OLO	1 1/2	1 7/8-12	1 7/8	1.45	2.11	4.0		

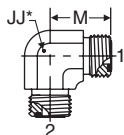
\*\*Size 14 is not included in SAE J1453.

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



Hose  
**A**

**ELO**  
Union Elbow  
ORFS / ORFS



SAE 520201

\* JJ – Across  
Wrench Flats

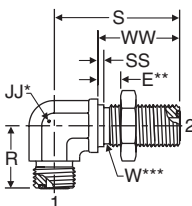
Fittings  
21 Series  
**B**

TUBE FITTING PART #	END SIZE		JJ (in.)	M (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)			S	SS	B
	4 ELO	1/4			1/4	9/16	0.85
6 ELO	3/8	3/8	3/4	0.98	9.2	9.2	
8 ELO	1/2	1/2	3/4	1.10	9.2	9.2	
10 ELO	5/8	5/8	1 1/16	1.31	6.0		
12 ELO	3/4	3/4	1 3/16	1.47	6.0	6.0	
14 ELO*	7/8	7/8	1 5/16	1.63			
16 ELO	1	1	1 7/16	1.64	6.0		
20 ELO	1 1/4	1 1/4	1 5/8	1.76	5.0		
24 ELO	1 1/2	1 1/2	1 7/8	1.92	4.0	4.0	
32 ELO*	2	2	2 1/2	2.76	3.0		

\* Sizes 14 and 32 are not included in SAE J1453.

Parkrimp Crimping Equipment  
**C**

**WELO**  
Bulkhead Union Elbow  
ORFS / ORFS



SAE 520701

Hose Assembly Equipment  
**D**

TUBE FITTING PART #	END SIZE		E MAX. (in.)	JJ (in.)	R (in.)	S (in.)	SS (in.)	W (in.)	WW (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)								S	SS	B
	4 WELO	1/4								1/4	0.53	9/16
6 WELO	3/8	3/8	0.53	3/4	1.02	2.05	0.06	0.69	1.34	9.2		
8 WELO	1/2	1/2	0.53	3/4	1.14	2.18	0.06	0.81	1.44	9.2		
10 WELO	5/8	5/8	0.52	1 1/16	1.36	2.48	0.06	1.00	1.60	6.0		
12 WELO	3/4	3/4	0.50	1 3/16	1.52	2.65	0.06	1.19	1.64	6.0		
14 WELO****	7/8	7/8	0.51	1 7/16	1.67	2.80	0.06	1.31	1.66			
16 WELO	1	1	0.51	1 7/16	1.67	2.80	0.06	1.44	1.66	6.0		
20 WELO	1 1/4	1 1/4	0.51	1 5/8	1.79	2.97	0.06	1.69	1.66	5.0		
24 WELO	1 1/2	1 1/2	0.51	1 7/8	1.95	3.13	0.06	2.00	1.66	4.0		

\* JJ – Across wrench flats.

\*\* E – Maximum bulkhead thickness.

\*\*\* W – Bulkhead pilot diameter. Recommended clearance hole is W + 0.015".

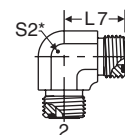
\*\*\*\* Size 14 is not included in SAE J1453.

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

**EMLO**  
Union Elbow – mm Hex  
ORFS / ORFS



ISO 8434-3 E  
SAE 52M0201

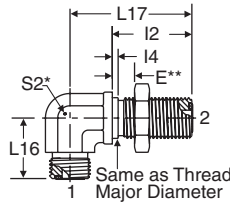
\* S2 – Across  
Hex Flats

TUBE FITTING PART #	END SIZE		L7 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 2				S	SS	B
	(mm)	(in.)					
4EMLO	6	1/4	21.5	14	9.2		
6EMLO	8,10	3/8	25.0	19	9.2		
8EMLO	12	1/2	28.0	19	9.2		
10EMLO	14,15,16	5/8	33.5	27	6.0		
12EMLO	18,20	3/4	37.5	30	6.0		
16EMLO	22,25	1	41.5	36	6.0		
20EMLO	28,30,32	1 1/4	44.5	41	5.0		
24EMLO	35,38	1 1/2	49.0	50	4.0		

### WEMLO

Bulkhead Union Elbow – mm Hex  
ORFS / ORFS

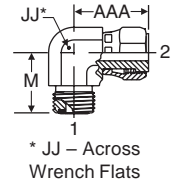
ISO 8434-3 BHE  
SAE 52M0701



### C6LO

Swivel Nut Elbow  
ORFS / ORFS Swivel

SAE 520221



TUBE FITTING PART #	END SIZE		E (mm)	I 2 (mm)	I 4 (mm)	L16 (mm)	L17 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 2								S	SS	B
	(mm)	(in.)									
4WEMLO	6	1/4	14	31.5	1.5	22.5	47.0	14	9.2		
6WEMLO	8,10	3/8	14	34.0	1.5	26.0	52.0	19	9.2		
8WEMLO	12	1/2	14	36.5	2.5	29.0	55.5	19	9.2		
10WEMLO	14,15,16	5/8	14	40.5	2.5	34.5	63.0	27	6.0		
12WEMLO	18,20	3/4	14	41.5	3.0	38.5	67.0	30	6.0		
16WEMLO	22,25	1	14	42.0	3.0	42.5	71.0	36	6.0		
20WEMLO	28,30,32	1 1/4	14	42.0	3.0	45.5	75.5	41	5.0		
24WEMLO	35,38	1 1/2	14	42.0	3.0	49.5	79.5	50	4.0		

\* S2 – Across wrench flats.

\*\* E – Maximum bulkhead thickness.

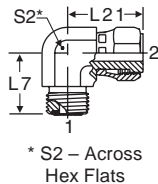
TUBE FITTING PART #	END SIZE		AAA (in.)	JJ (in.)	M (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)				S	SS	B
	(in.)	(in.)						
4 C6LO	1/4	1/4	1.07	9/16	0.85	9.2	9.2	
6 C6LO	3/8	3/8	1.17	3/4	0.98	9.2	9.2	
8 C6LO	1/2	1/2	1.49	3/4	1.10	9.2	9.2	
10 C6LO	5/8	5/8	1.65	1 1/16	1.31	6.0	6.0	
12 C6LO	3/4	3/4	1.82	1 3/16	1.47	6.0	6.0	
14 C6LO*	7/8	7/8	2.07	1 5/16	1.63			
16 C6LO	1	1	2.10	1 7/16	1.64	6.0	6.0	
20 C6LO	1 1/4	1 1/4	2.29	1 5/8	1.76	5.0	5.0	
24 C6LO	1 1/2	1 1/2	2.41	1 7/8	1.92	4.0		

\* Size 14 is not included in SAE J1453.

### C6MLO

Swivel Nut Elbow – mm Hex  
ORFS / ORFS Swivel

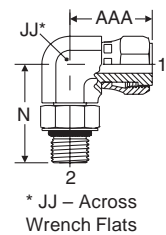
ISO 8434-3 SWE  
SAE 52M0221



### AOEL6

Straight Thread Swivel Elbow  
ORFS Swivel / SAE-ORB

SAE 520281



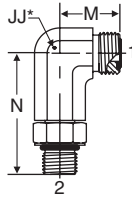
TUBE FITTING PART #	END SIZE		L7 (mm)	L21 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 (in.)				S	SS	B
	(mm)	(in.)						
4C6MLO	6	1/4	21.5	26.5	14	9.2		
6C6MLO	8,10	3/8	25.0	29.0	19	9.2		
8C6MLO	12	1/2	28.0	38.0	19	9.2		
10C6MLO	14,15,16	5/8	33.5	41.0	27	6.0		
12C6MLO	18,20	3/4	37.5	46.5	30	6.0		
16C6MLO	22,25	1	41.5	53.5	36	6.0		
20C6MLO	28,30,32	1 1/4	44.5	58.0	41	4.0		
24C6MLO	35,38	1 1/2	49.0	61.0	50	4.0		

TUBE FITTING PART #	END SIZE		AAA (in.)	JJ (in.)	N (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A				S	SS	B
	(in.)	(in.)						
4 AOEL6	1/4	7/16-20	1.07	9/16	1.29	6.0		
6 AOEL6	3/8	9/16-18	1.17	3/4	1.45	6.0		
8 AOEL6	1/2	3/4-16	1.49	3/4	1.60	6.0		
10 AOEL6	5/8	7/8-14	1.65	1 1/16	1.97	6.0		
12 AOEL6	3/4	1 1/16-12	1.82	1 1/16	2.17	6.0		
16 AOEL6	1	1 5/16-12	2.10	1 5/16	2.35	5.5		
20 AOEL6	1 1/4	1 5/8-12	2.29	1 5/8	2.45	4.0		
24 AOEL6	1 1/2	1 7/8-12	2.41	1 7/8	2.59	4.0		

### CC5OLO

Long Straight Thread Elbow  
ORFS-Long / SAE-ORB

SAE 521520



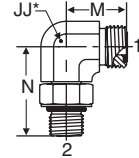
\* JJ – Across Wrench Flats

TUBE FITTING PART #	END SIZE		JJ (in.)	M (in.)	N (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A				S	SS	B
4 CC5OLO	1/4	7/16-20	9/16	0.85	2.23	6.0		
6 CC5OLO	3/8	9/16-18	3/4	0.98	2.61	6.0		
8 CC5OLO	1/2	3/4-16	3/4	1.10	2.95	6.0		
10 CC5OLO	5/8	7/8-14	1 1/16	1.31	3.51	6.0		
12 CC5OLO	3/4	1 1/16-12	1 3/16	1.47	3.97	6.0		
16 CC5OLO	1	1 5/16-12	1 7/16	1.64	4.51	5.5		

### C5OLO

Straight Thread Elbow  
ORFS / SAE-ORB

SAE 520220



\* JJ – Across Wrench Flats

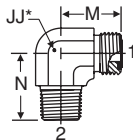
TUBE FITTING PART #	END SIZE		JJ (in.)	M (in.)	N (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A				S	SS	B
4 C5OLO	1/4	7/16-20	9/16	0.85	1.29	6.0	6.0	
4-6 C5OLO***	1/4	9/16-18	9/16	0.92	1.45	6.0	6.0	
4-8 C5OLO	1/4	3/4-16	3/4	0.97	1.60	6.0		
6 C5OLO	3/8	9/16-18	3/4	0.98	1.45	6.0	6.0	
6-4 C5OLO	3/8	7/16-20	3/4	0.98	1.37	6.0	6.0	
6-5 C5OLO	3/8	1/2-20	3/4	0.98	1.37	6.0		
6-8 C5OLO	3/8	3/4-16	3/4	1.04	1.60	6.0	6.0	
6-12 C5OLO***	3/8	7/8-14	7/8	1.15	1.97	6.0		
6-12 C5OLO	3/8	1 1/16-12	1 1/16	1.28	2.17	6.0		
8 C5OLO	1/2	3/4-16	3/4	1.10	1.60	6.0	6.0	
8-6 C5OLO	1/2	9/16-18	3/4	1.10	1.44	6.0	6.0	
8-10 C5OLO***	1/2	7/8-14	7/8	1.21	1.97	6.0		
8-12 C5OLO	1/2	1 1/16-12	1 3/16	1.32	2.17	6.0		
10 C5OLO	5/8	7/8-14	1 1/16	1.31	1.97	6.0	6.0	
10-8 C5OLO	5/8	3/4-16	1 1/16	1.31	1.80	6.0		
10-12 C5OLO	5/8	1 1/16-12	1 3/16	1.41	2.17	6.0		
12 C5OLO	3/4	1 1/16-12	1 3/16	1.47	2.17	6.0	6.0	
12-8 C5OLO	3/4	3/4-16	1 3/16	1.47	1.84	6.0		
12-10 C5OLO	3/4	7/8-14	1 3/16	1.47	2.01	6.0		
12-16 C5OLO	3/4	1 5/16-12	1 7/16	1.62	2.35	5.5		
14 C5OLO**	7/8	1 3/16-12	1 5/16	1.63	2.30			
16 C5OLO	1	1 5/16-12	1 7/16	1.64	2.35	5.5	5.5	
16-12 C5OLO	1	1 1/16-12	1 7/16	1.64	2.32	6.0		
16-20 C5OLO	1	1 5/8-12	1 5/8	1.76	2.45	4.0		
20 C5OLO	1 1/4	1 5/8-12	1 5/8	1.76	2.45	4.0	4.0	
20-16 C5OLO	1 1/4	1 5/16-12	1 5/8	1.76	2.42	4.0		
20-24 C5OLO	1 1/4	1 7/8-12	1 7/8	1.92	2.59	4.0		
24 C5OLO	1 1/2	1 7/8-12	1 7/8	1.92	2.59	4.0	4.0	
24-20 C5OLO	1 1/2	1 5/8-12	1 7/8	1.92	2.59	4.0		
32 C5OLO**	2	2 1/2-12	2 1/2	2.76	3.07	2.5		

\*\* Sizes 14 and 32 are not included in SAE J1453.

\*\*\* JJ for these parts does not conform to SAE.

### CLO

Straight Thread Elbow  
ORFS / NPTF



\* JJ – Across Wrench Flats

TUBE FITTING PART #	END SIZE		JJ (in.)	M (in.)	N (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 NPTF				S	SS	B
4 CLO	1/4	1/8-27	9/16	0.85	0.80	6.0	6.0	
4-4 CLO	1/4	1/4-18	9/16	0.85	1.12	6.0	6.0	
4-6 CLO	1/4	3/8-18	3/4	0.97	1.22	6.0		
4-8 CLO	1/4	1/2-14	7/8	1.07	1.47	6.0		
6 CLO	3/8	1/4-18	3/4	0.98	1.09	6.0	6.0	
6-6 CLO	3/8	3/8-18	3/4	0.98	1.22	6.0	6.0	
6-8 CLO	3/8	1/2-14	7/8	1.15	1.47	6.0	6.0	
8 CLO	1/2	3/8-18	3/4	1.10	1.22	6.0	6.0	
8-4 CLO	1/2	1/4-18	3/4	1.10	1.22	6.0		
8-8 CLO	1/2	1/2-14	7/8	1.10	1.47	6.0	6.0	
8-12 CLO	1/2	3/4-14	1 1/16	1.32	1.59	4.0		
10 CLO	5/8	1/2-14	1 1/16	1.31	1.47	6.0	6.0	
10-6 CLO	5/8	3/8-18	1 1/16	1.31	1.28	6.0		
10-12 CLO	5/8	3/4-14	1 3/16	1.41	1.59	4.0		
12 CLO	3/4	3/4-14	1 3/16	1.47	1.59	4.0	4.0	
12-8 CLO	3/4	1/2-14	1 3/16	1.47	1.59	6.0		
12-16 CLO	3/4	1-11 1/2	1 5/16	1.62	1.97	3.0		
14 CLO*	7/8	3/4-14	1 5/16	1.63	1.69			
16 CLO	1	1-11 1/2	1 7/16	1.64	1.97	3.0	3.0	
16-12 CLO	1	3/4-14	1 7/16	1.64	1.78	4.0		
20 CLO	1 1/4	1 1/4-11 1/2	1 5/8	1.76	2.38	2.5	2.5	
24 CLO	1 1/2	1 1/2-11 1/2	1 7/8	1.92	2.64	2.5		
24-20 CLO	1 1/2	1 1/4-11 1/2	1 7/8	1.92	2.61	2.5		

\* Size 14 is not included in SAE J1453.

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

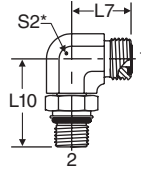
Appendices  
**G**



### C87OMLO

90° Metric Straight Thread Elbow  
ORFS / ISO 6149

ISO 8434-3 SDE  
SAE 52M0287



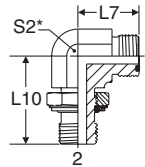
\* S2 – Across Hex Flats

TUBE FITTING PART #	END SIZE			L7 (mm)	L10 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1		2				S	SS	B
	(mm)	(in.)	ISO 261						
4M12C87OMLO	6	1/4	M12x1.5	21.5	33.0	14	6.0		
4M14C87OMLO	6	1/4	M14x1.5	24.0	35.5	17			
6M12C87OMLO	8,10	3/8	M12x1.5	25.0	35.5	17	6.0		
6M14C87OMLO	8,10	3/8	M14x1.5	25.0	35.5	17	6.0		
6M16C87OMLO	8,10	3/8	M16x1.5	25.0	37.5	17	6.0		
8M14C87OMLO	12	1/2	M14x1.5	28.0	36.0	19	6.0		
8M18C87OMLO	12	1/2	M18x1.5	28.0	41.0	19	6.0		
8M22C87OMLO	12	1/2	M22x1.5	31.0	49.0	27	6.0		
10M18C87OMLO	14,15,16	5/8	M18x1.5	33.5	47.5	37	6.0		
10M22C87OMLO	14,15,16	5/8	M22x1.5	33.5	49.0	27	6.0		
12M22C87OMLO	18,20	3/4	M22x1.5	37.5	49.5	27			
12M27C87OMLO	18,20	3/4	M27x2	37.5	55.5	27	6.0		
16M33C87OMLO	22,25	1	M33x2	41.5	59.5	36	5.0		
20M38C87OMLO*	28,30,32	1 1/4	M38x2	44.5	62.0	41	4.0		
20M42C87OMLO	28,30,32	1 1/4	M42x2	44.5	63.0	41	4.0		
24M48C87OMLO	35,38	1 1/2	M48x2	49.0	71.5	50			

\* For special M38x2 (ISO 6149-1 style) port. The current ISO 6149 does not include the M38 size.

### C8OMLO

Metric Straight Thread Elbow  
ORFS / Metric-ORR



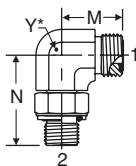
\* S2 – Across Hex Flats

TUBE FITTING PART #	END SIZE			L7 (mm)	L10 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1		2				S	SS	B
	(mm)	(in.)	ISO 261						
4M12C8OMLO	6	1/4	M12x1.5	21.5	33.0	14	3.6		
6M12C8OMLO	8, 10	3/8	M12x1.5	25.0	35.5	17	3.6		
6M14C8OMLO	8, 10	3/8	M14x1.5	25.0	35.5	17	3.6		
6M16C8OMLO	8, 10	3/8	M16x1.5	25.0	37.5	17	3.6		
8M14C8OMLO	12	1/2	M14x1.5	28.0	36.0	19	3.6		
8M18C8OMLO	12	1/2	M18x1.5	28.0	41.0	19	3.6		
8M22C8OMLO	12	1/2	M22x1.5	31.5	49.0	27	3.6		
10M22C8OMLO	14, 15, 16	5/8	M22x1.5	33.5	49.0	27	3.6		
12M27C8OMLO	18, 20	3/4	M27x2	37.5	55.5	30	3.6		
16M33C8OMLO	22, 25	1	M33x2	41.5	59.5	36	2.5		
20M38C8OMLO	28, 30, 32	1 1/4	M38x2	44.5	62.0	41	2.5		
20M42C8OMLO	28, 30, 32	1 1/4	M42x2	44.5	63.0	41	2.5		

Hose
A
Fittings 21 Series
B
Parkrimp Crimping Equipment
C
Hose Assembly Equipment
D
Adapters
E
Accessories
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Appendices
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### C4OMLO

Male Elbow – BSPP  
(for ISO 1179-1 Port)  
ORFS / BSPP-ORR

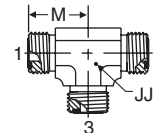


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE			M (mm)	N (mm)	Y (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1		2				S	SS	B
	(mm)	(in.)	BSPP						
4C4OMLO	6	1/4	1/8-28	21.5	30.0	14	4.0		
4-4C4OMLO	6	1/4	1/4-19	23.5	36.0	19	4.0		
4-6C4OMLO	6	1/4	3/8-19	24.5	38.0	19	4.0		
6C4OMLO	8,10	3/8	1/4-19	25.0	36.0	19	4.0	4.0	
6-6C4OMLO	8,10	3/8	3/8-19	26.5	38.0	19	4.0		
8-4C4OMLO	12	1/2	1/4-19	28.0	35.5	19	4.0		
8C4OMLO	12	1/2	3/8-19	28.0	38.0	19	4.0		
8-8C4OMLO	12	1/2	1/2-14	31.0	48.5	27	4.0		
8-12C4OMLO	12	1/2	3/4-14	33.5	51.5	30	4.0		
10-6C4OMLO	14,15,16	5/8	3/8-19	33.5	40.5	27	4.0		
10C4OMLO	14,15,16	5/8	1/2-14	33.5	48.5	27	4.0		
10-12C4OMLO	14,15,16	5/8	3/4-14	36.0	51.5	30	4.0		
10-16C4OMLO	14,15,16	5/8	1-11	39.5	58.5	36			
12-8C4OMLO	18,20	3/4	1/2-14	37.5	49.5	30	4.0		
12C4OMLO	18,20	3/4	3/4-14	37.5	51.5	30	4.0		
12-16C4OMLO	18,20	3/4	1-11	41.0	58.5	36	4.0		
16-12C4OMLO	22,25	1	3/4-14	41.5	56.0	36	4.0		
16C4OMLO	22,25	1	1-11	41.5	58.5	36	4.0		
16-20C4OMLO	22,25	1	1 1/4-11	44.5	61.0	41	3.0		
20-16C4OMLO	28,30,32	1 1/4	1-11	44.5	61.0	41	4.0		
20C4OMLO	28,30,32	1 1/4	1 1/4-11	44.5	61.0	41			
20-24C4OMLO	28,30,32	1 1/4	1 1/2-11	49.0	64.5	50	2.0		
24C4OMLO	35,38	1 1/2	1 1/2-11	49.0	64.5	50	2.0		

### JLO

Union Tee  
ORFS (all three ends)



SAE 520401

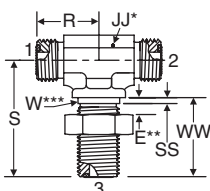
\* JJ – Across Wrench Flats

TUBE FITTING PART #	END SIZE		JJ (in.)	M (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 3				S	SS	B
	(in.)	(in.)					
4 JLO	1/4	9/16	0.85	9.2	9.2		
6 JLO	3/8	3/4	0.98	9.2	9.2		
8 JLO	1/2	3/4	1.10	9.2	9.2		
10 JLO	5/8	1 1/16	1.31	6.0	6.0		
12 JLO	3/4	1 3/16	1.47	6.0	6.0		
14 JLO*	7/8	1 5/16	1.63				
16 JLO	1	1 7/16	1.64	6.0	6.0		
20 JLO	1 1/4	1 5/8	1.76	5.0	5.0		
24 JLO	1 1/2	1 7/8	1.92	4.0	4.0		
32 JLO*	2	2 1/2	2.76	3.0			

\* Sizes 14 and 32 are not included in SAE J1453.

### WJLO

Bulkhead Branch Tee  
ORFS (all three ends)



TUBE FITTING PART #	END SIZE 1-3 (in.)	E (in.)	JJ (in.)	R (in.)	S (in.)	SS (in.)	W DIA. (in.)	WW (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
									S	SS	B
									4 WJLO	1/4	0.53
6 WJLO	3/8	0.53	3/4	1.02	2.05	0.06	0.69	1.34	9.2		
8 WJLO	1/2	0.53	3/4	1.14	2.18	0.06	0.81	1.44	9.2		
10 WJLO	5/8	0.52	1 1/16	1.36	2.48	0.06	1.00	1.60	6.0		
12 WJLO	3/4	0.50	1 3/16	1.52	2.65	0.06	1.19	1.64	6.0		
16 WJLO	1	0.51	1 7/16	1.67	2.80	0.06	1.44	1.66	6.0		

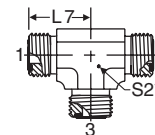
\* JJ – Across wrench flats.

\*\* E – Maximum bulkhead thickness.

\*\*\* W – Bulkhead pilot diameter. Recommended clearance hole is W + 0.015".

### JMLO

Union Tee – mm Hex  
ORFS (all three ends)



ISO 8434-3 T  
SAE 52M0401

\* S2 – Across Hex Flats

TUBE FITTING PART #	END SIZE		L7 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 3				S	SS	B
	(mm)	(in.)					
4JMLO	6	1/4	21.5	14	9.2		
6JMLO	8,10	3/8	25.0	19	9.2		
8JMLO	12	1/2	28.0	19	9.2		
10JMLO	14,15,16	5/8	33.5	27	6.0		
12JMLO	18,20	3/4	37.5	30	6.0		
16JMLO	22,25	1	41.5	36	6.0		
20JMLO	28,30,32	1 1/4	44.5	41	5.0		
24JMLO	35,38	1 1/2	49.0	50	4.0		

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

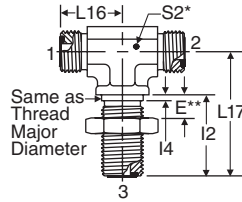
Accessories  
**F**

Appendices  
**G**

## WJMLO

Bulkhead Branch Tee – mm Hex  
ORFS (all three ends)

ISO 8434-3 BHBT  
SAE 52M0959



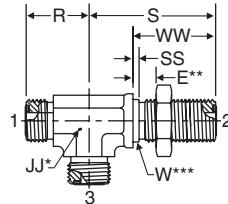
TUBE FITTING PART #	END SIZE		E (mm)	I 2 (mm)	I 4 (mm)	L16 (mm)	L17 (mm)	S2 (mm)	S4 HEX (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 3									S	SS	B
	(mm)	(in.)										
4WJMLO	6	1/4	14	31.5	1.5	22.5	47.0	14	22	9.2		
6WJMLO	8,10	3/8	14	34.0	1.5	26.0	52.0	19	27	9.2		
8WJMLO	12	1/2	14	36.5	2.5	29.0	55.5	19	30	9.2		
10WJMLO	14,15,16	5/8	14	40.5	2.5	34.5	63.0	27	36	6.0		
12WJMLO	18,20	3/4	14	41.5	3.0	38.5	67.0	30	41	6.0		
16WJMLO	22,25	1	14	42.0	3.0	42.5	71.0	36	46	6.0		
20WJMLO	28,30,32	1 1/4	14	42.0	3.0	45.5	75.5	41	50			
24WJMLO	35,38	1 1/2	14	42.0	3.0	49.5	79.5	50	60			

\* S2 – Across wrench flats.  
\*\* E – Maximum bulkhead thickness.

## WJJLO

Bulkhead Run Tee  
ORFS (all three ends)

SAE 520958



TUBE FITTING PART #	END SIZE		E MAX. (in.)	JJ (in.)	R (in.)	S (in.)	SS (in.)	W DIA. (in.)	WW (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 3									S	SS	B
	(in.)	(in.)										
4 WJJLO	1/4	0.53	9/16	0.89	1.85	0.06	0.56	1.24	9.2			
6 WJJLO	3/8	0.53	3/4	1.02	2.05	0.06	0.69	1.34	9.2			
8 WJJLO	1/2	0.53	3/4	1.14	2.18	0.06	0.81	1.44	9.2	9.2		
10 WJJLO	5/8	0.52	1 1/16	1.36	2.48	0.06	1.00	1.60	6.0			
12 WJJLO	3/4	0.50	1 3/16	1.52	2.65	0.06	1.19	1.64	6.0			
16 WJJLO	1	0.51	1 7/16	1.67	2.80	0.06	1.44	1.66	6.0			
20 WJJLO	1 1/4	0.51	1 5/8	1.79	2.97	0.06	1.69	1.66	5.0			
24 WJJLO	1 1/2	0.51	1 7/8	1.95	3.13	0.06	2.00	1.66	4.0			

\* JJ – Across wrench flats.  
\*\* E – Maximum bulkhead thickness.  
\*\*\* W – Bulkhead pilot diameter. Recommended clearance hole is W + 0.015".

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

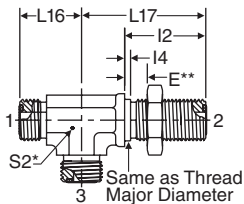


Hose  
**A**

### WJJMLO

Bulkhead Run Tee – mm Hex  
ORFS (all three ends)

ISO 8434-3 BHRT  
SAE 52M0958



Fittings  
21 Series  
**B**

TUBE FITTING PART #	END SIZE		E (mm)	I2 (mm)	I4 (mm)	L16 (mm)	L17 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 3								S	SS	B
	(mm)	(in.)									
4WJJMLO	6	1/4	14	31.5	1.5	22.5	47.0	14	9.2		
6WJJMLO	8,10	3/8	14	34.0	1.5	26.0	52.0	19	9.2		
8WJJMLO	12	1/2	14	36.5	2.5	29.0	55.5	19	9.2		
10WJJMLO	14,15,16	5/8	14	40.5	2.5	34.5	63.0	27	6.0		
12WJJMLO	18,20	3/4	14	41.5	3.0	38.5	67.0	30	6.0		
16WJJMLO	22,25	1	14	42.0	3.0	42.5	71.0	36	6.0		
20WJJMLO	28,30,32	1 1/4	14	42.0	3.0	45.5	75.5	41			
24WJJMLO	35,38	1 1/2	14	42.0	3.0	49.5	79.5	50			

\* S2 – Across wrench flats.

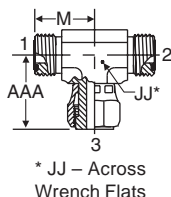
\*\* E – Maximum bulkhead thickness.

Parkrimp Crimping Equipment  
**C**

### S6LO

Swivel Nut Branch Tee  
ORFS / ORFS / ORFS Swivel

SAE 520433



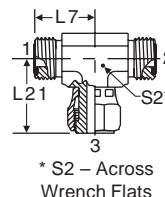
\* JJ – Across Wrench Flats

Hose Assembly Equipment  
**D**

### S6MLO

Swivel Nut Branch Tee – mm Hex  
ORFS / ORFS / ORFS Swivel

ISO 8434-3 SWBT  
SAE 52M0433



\* S2 – Across Wrench Flats

Adapters  
**E**

TUBE FITTING PART #	END SIZE		AAA (in.)	JJ (in.)	M (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 3					S	SS	B
	(in.)	(in.)						
4 S6LO	1/4	1.07	9/16	0.85	9.2	9.2		
6 S6LO	3/8	1.17	3/4	0.98	9.2	9.2		
8 S6LO	1/2	1.49	3/4	1.10	9.2	9.2		
10 S6LO	5/8	1.65	1 1/16	1.31	6.0	6.0		
12 S6LO	3/4	1.82	1 3/16	1.47	6.0	6.0		
14 S6LO*	7/8	2.07	1 5/16	1.63				
16 S6LO	1	2.10	1 7/16	1.64	6.0			
20 S6LO	1 1/4	2.29	1 5/8	1.76	5.0	5.0		
24 S6LO	1 1/2	2.41	1 7/8	1.92	4.0			

\* Size 14 is not included in SAE J1453.

TUBE FITTING PART #	END SIZE		L7 (mm)	L21 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 3					S	SS	B
	(mm)	(in.)						
4S6MLO	6	1/4	21.5	26.5	14			
6S6MLO	8,10	3/8	25.0	29.0	19	9.2		
8S6MLO	12	1/2	28.0	38.0	19	9.2		
10S6MLO	14,15,16	5/8	33.5	41.0	27	6.0		
12S6MLO	18,20	3/4	37.5	46.5	30	6.0		
16S6MLO	22,25	1	41.5	53.5	36	6.0		
20S6MLO	28,30,32	1 1/4	44.5	58.0	41	4.0		
24S6MLO	35,38	1 1/2	49.0	61.0	50			

Accessories  
**F**

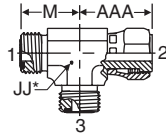
Appendices  
**G**



### R6LO

Swivel Nut Run Tee  
ORFS / ORFS Swivel / ORFS

SAE 520432



\* JJ – Across Wrench Flats

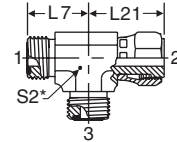
TUBE FITTING PART #	END SIZE 1 - 3 (in.)	AAA (in.)	JJ (in.)	M (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					S	SS	B
					4 R6LO	1/4	1.07
6 R6LO	3/8	1.17	3/4	0.98	9.2		
8 R6LO	1/2	1.49	3/4	1.10	9.2		
10 R6LO	5/8	1.65	1 1/16	1.31	6.0		
12 R6LO	3/4	1.82	1 3/16	1.47	6.0	6.0	
14 R6LO*	7/8	2.07	1 5/16	1.63			
16 R6LO	1	2.10	1 7/16	1.64	6.0		
20 R6LO	1 1/4	2.29	1 5/8	1.76	5.0		
24 R6LO	1 1/2	2.41	1 7/8	1.92	4.0		

\* Size 14 is not included in SAE J1453.

### R6MLO

Swivel Nut Run Tee – mm Hex  
ORFS / ORFS Swivel / ORFS

ISO 8434-3 SWRT  
SAE 52M0432



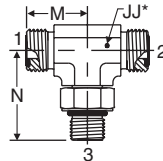
\* S2 – Across Hex Flats

TUBE FITTING PART #	END SIZE 1 - 3		L7 (mm)	L21 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	(mm)	(in.)				S	SS	B
	4R6MLO	6				1/4	21.5	26.5
6R6MLO	8,10	3/8	25.0	29.0	19	9.2		
8R6MLO	12	1/2	28.0	38.0	19	9.2		
10R6MLO	14,15,16	5/8	33.5	41.0	27	6.0		
12R6MLO	18,20	3/4	37.5	46.5	30	6.0		
16R6MLO	22,25	1	41.5	53.5	36	6.0		
20R6MLO	28,30,32	1 1/4	44.5	58.0	41	4.0		
24R6MLO	35,38	1 1/2	49.0	61.0	50	4.0		

### S5OLO

Straight Thread Branch Tee  
ORFS / ORFS / SAE-ORB

SAE 520429



\* JJ – Across Wrench Flats

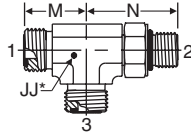
TUBE FITTING PART #	END SIZE			JJ (in.)	M (in.)	N (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)	3 UN/UNF-2A				S	SS	B
	4 S5OLO	1/4	1/4				7/16-20	9/16	0.85
4-4-6 S5OLO	1/4	1/4	9/16-18	9/16	0.92	1.45	6.0		
6 S5OLO	3/8	3/8	9/16-18	3/4	0.98	1.45	6.0	6.0	
6-6-4 S5OLO	3/8	3/8	7/16-20	3/4	0.98	1.45	6.0		
6-6-8 S5OLO	3/8	3/8	3/4-16	3/4	1.04	1.60	6.0		
8 S5OLO	1/2	1/2	3/4-16	3/4	1.10	1.60	6.0	6.0	
8-8-10 S5OLO	1/2	1/2	7/8-14	1 1/16	1.21	1.97	6.0		
8-8-12 S5OLO	1/2	1/2	1 1/16-12	1 3/16	1.32	2.17	6.0		
10 S5OLO	5/8	5/8	7/8-14	1 1/16	1.31	1.97	6.0		
10-10-12 S5OLO	5/8	5/8	1 1/16-12	1 3/16	1.41	2.17	6.0		
12 S5OLO	3/4	3/4	1 1/16-12	1 3/16	1.47	2.17	6.0	6.0	
12-12-16 S5OLO	3/4	3/4	1 5/16-12	1 7/16	1.62	2.35	5.5		
16 S5OLO	1	1	1 5/16-12	1 7/16	1.64	2.35	5.5	5.5	
16-16-20 S5OLO	1	1	1 5/8-12	1 5/8	1.76	2.45	4.0		
20 S5OLO	1 1/4	1 1/4	1 5/8-12	1 5/8	1.76	2.45	4.0		
24 S5OLO	1 1/2	1 1/2	1 7/8-12	1 7/8	1.92	2.59	4.0		

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



R5OLO

Straight Thread Run Tee  
ORFS / SAE-ORB / ORFS

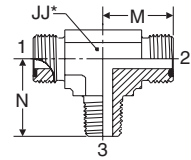


\* JJ – Across  
Wrench Flats

SAE 520428

SLO

Male Pipe Tee  
ORFS / ORFS / NPTF



\* JJ – Across  
Wrench Flats

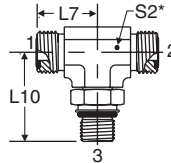
SAE 520425

TUBE FITTING PART #	END SIZE			JJ (in.)	M (in.)	N (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2A	3 (in.)				S	SS	B
	4 R5OLO	1/4	7/16-20						
4-6-4 R5OLO	1/4	9/16-18	1/4	3/4	0.92	1.45	6.0		
6 R5OLO	3/8	9/16-18	3/8	3/4	0.98	1.45	6.0	6.0	
6-8-6 R5OLO	3/8	3/4-16	3/8	3/4	1.04	1.60	6.0		
8 R5OLO	1/2	3/4-16	1/2	3/4	1.10	1.60	6.0	6.0	
8-10-8 R5OLO	1/2	7/8-14	1/2	1 1/16	1.21	1.97	6.0		
10 R5OLO	5/8	7/8-14	5/8	1 1/16	1.31	1.97	6.0	6.0	
10-12-10 R5OLO	5/8	1 1/16-12	5/8	1 3/16	1.41	2.17	6.0		
12 R5OLO	3/4	1 1/16-12	3/4	1 3/16	1.47	2.17	6.0	6.0	
12-16-12 R5OLO	3/4	1 5/16-12	3/4	1 7/16	1.62	2.35	5.5		
16 R5OLO	1	1 5/16-12	1	1 7/16	1.64	2.35	5.5	5.5	
16-20-16 R5OLO	1	1 5/8-12	1	1 5/8	1.76	2.45	4.0		
20 R5OLO	1 1/4	1 5/8-12	1 1/4	1 5/8	1.76	2.45	4.0	4.0	
24 R5OLO	1 1/2	1 7/8-12	1 1/2	1 7/8	1.92	2.59	4.0		

TUBE FITTING PART #	END SIZE		JJ (in.)	M (in.)	N (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 2 (in.)	3 NPTF				S	SS	B
	4-4-4 SLO	1/4						
6-6-6 SLO	3/8	3/8-18	3/4	0.98	1.22	6.0		
6 SLO	3/8	1/4-18	3/4	0.98	1.09	6.0		
8 SLO	1/2	3/8-18	3/4	1.10	1.22	6.0		
8-8-8 SLO	1/2	1/2-14	7/8	1.10	1.47	6.0		
10 SLO	5/8	1/2-14	1 1/16	1.31	1.47	6.0		
12 SLO	3/4	3/4-14	1 3/16	1.47	1.59	4.0		
16 SLO	1	1-11 1/2	1 7/16	1.64	1.97	3.0		
20 SLO	1 1/4	1 1/4-11 1/2	1 5/8	1.76	2.38	2.5		

S87OMLO

Metric Straight Thread Branch Tee  
ORFS / ORFS / ISO 6149



\* S2 – Across  
Hex Flats

ISO 8434-3 SDBT  
SAE 52M0489

TUBE FITTING PART #	END SIZE			L7 (mm)	L10 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 2		3				S	SS	B
	(mm)	(in.)	ISO 261						
4M12S87OMLO	6	1/4	M12x1.5	21.5	33.0	14			
4M14S87OMLO	6	1/4	M14x1.5	24.0	35.5	19	6.0		
6M14S87OMLO	8,10	3/8	M14x1.5	25.0	35.5	19	6.0		
6M16S87OMLO	8,10	3/8	M16x1.5	25.0	37.5	19	6.0		
8M14S87OMLO	12	1/2	M14x1.5	28.0	36.0	19			
8M18S87OMLO	12	1/2	M18x1.5	28.0	41.0	19	6.0		
8M22S87OMLO	12	1/2	M22x1.5	31.0	49.0	27	6.0		
10M22S87OMLO	14,15,16	5/8	M22x1.5	33.5	49.0	27	6.0		
12M27S87OMLO	18,20	3/4	M27x2	37.5	55.5	30	6.0		
16M33S87OMLO	22,25	1	M33x2	41.5	59.5	36	5.1		
20M42S87OMLO	28,30,32	1 1/4	M42x2	44.5	63.0	41	4.0		
24M48S87OMLO	35,38	1 1/2	M48x2	49.0	71.5	50			

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

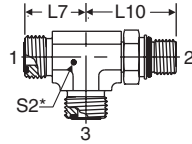
Adapters  
E

Accessories  
F

Appendices  
G

# R87OMLO

Metric Straight Thread Run Tee  
ORFS / ISO 6149 / ORFS



\* S2 – Across Hex Flats

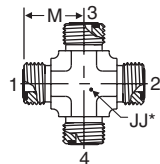
ISO 8434-3 SDRT  
SAE 52M0488

TUBE FITTING PART #	END SIZE			L7 (mm)	L10 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 3		2				S	SS	B
	(mm)	(in.)	ISO 261						
4M12R87OMLO	6	1/4	M12x1.5	21.5	33.0	14	6.0		
4M14R87OMLO	6	1/4	M14x1.5	24.0	35.5	19			
6M14R87OMLO	8,10	3/8	M14x1.5	25.0	35.5	19			
6M16R87OMLO	8,10	3/8	M16x1.5	25.0	37.5	19	6.0		
8M14R87OMLO	12	1/2	M14x1.5	28.0	36.0	19	6.0		
8M18R87OMLO	12	1/2	M18x1.5	28.0	41.0	19			
8M22R87OMLO	12	1/2	M22x1.5	31.0	49.0	27			
10M22R87OMLO	14,15,16	5/8	M22x1.5	33.5	49.0	27	6.0		
12M27R87OMLO	18,20	3/4	M27x2	37.5	55.5	30	6.0		
16M33R87OMLO	22,25	1	M33x2	41.5	59.5	36			
20M42R87OMLO	28,30,32	1 1/4	M42x2	44.5	63.0	41	4.0		
24M28R87OMLO	35,38	1 1/2	M48x2	49.0	71.5	50			

# KLO

Union Cross  
ORFS (all four ends)

SAE 520501



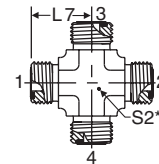
\* JJ – Across Wrench Flats

TUBE FITTING PART #	END SIZE (in.)	JJ (in.)	M (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
				S	SS	B
				4 KLO	1/4	9/16
6 KLO	3/8	3/4	0.98	9.2		
8 KLO	1/2	3/4	1.10	9.2		
10 KLO	5/8	1 1/16	1.31	6.0		
12 KLO	3/4	1 3/16	1.47	6.0		
16 KLO	1	1 7/16	1.64	6.0		
20 KLO	1 1/4	1 5/8	1.76	5.0		

# KMLO

Union Cross – mm Hex  
ORFS (all four ends)

ISO 8434-3 K  
SAE 52M0501



\* S2 – Across Hex Flats

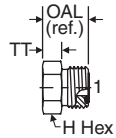
TUBE FITTING PART #	END SIZE		L7 (mm)	S2 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 - 4 (mm)	(in.)			S	SS	B
	4KMLO	6					
6KMLO	8,10	3/8	25.0	19			
8KMLO	12	1/2	28.0	19	9.2		
10KMLO	14,15,16	5/8	33.5	27	6.0		
12KMLO	18,20	3/4	37.5	30			
16KMLO	22,25	1	41.5	36	6.0		
20KMLO	28,30,32	1 1/4	44.5	41			
24KMLO	35,38	1 1/2	49.0	50			

Hose
A
Fittings 21 Series
B
Parkrimp Crimping Equipment
C
Hose Assembly Equipment
D
Adapters
E
Accessories
F
Appendices
G

Hose  
**A**

**PNLO**

Plug  
ORFS



SAE 520109

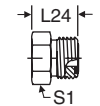
TUBE FITTING PART #	END SIZE 1 (in.)	H HEX (in.)	OAL (REF.) (in.)	TT (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					S	SS	B
					4 PNLO	1/4	5/8
6 PNLO	3/8	3/4	0.76	0.32	9.2		
8 PNLO	1/2	7/8	0.86	0.35	9.2	9.2	
10 PNLO	5/8	1 1/16	1.02	0.41	6.0		
12 PNLO	3/4	1 1/4	1.08	0.41	6.0	6.0	
14 PNLO*	7/8	1 3/8	1.18	0.49	6.0	6.0	
16 PNLO	1	1 1/2	1.10	0.41	6.0	6.0	
20 PNLO	1 1/4	1 3/4	1.10	0.41	6.0	6.0	
24 PNLO	1 1/2	2 1/8	1.10	0.41	5.0		
32 PNLO*	2	2 3/4	1.37	0.50	3.0		

\* Sizes 14 and 32 are not included in SAE J1453.

Fittings  
21 Series  
**B**

**PNMLO**

Plug – mm Hex  
ORFS



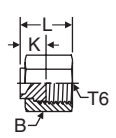
ISO 8434-3 PL  
SAE 52M0109

TUBE FITTING PART #	ORFS TUBE O.D.		L24 (mm)	S1 HEX (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	(mm)	(in.)			S	SS	B
	4PNMLO	6			1/4	16.5	17
6PNMLO	8,10	3/8	19.0	19	9.2		
8PNMLO	12	1/2	22.0	22	9.2		
10PNMLO	14,15,16	5/8	26.0	27	6.0		
12PNMLO	18,20	3/4	27.5	32	6.0		
16PNMLO	22,25	1	28.0	41	6.0		
20PNMLO	28,30,32	1 1/4	28.0	46	6.0		
24PNMLO	38	1 1/2	28.0	55	5.0		

Parkrimp  
Crimping  
Equipment  
**C**

**FNL**

Cap  
ORFS



SAE 520112

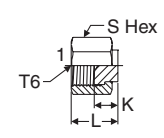
TUBE FITTING PART #	TUBE O.D. (in.)	T6 SWIVEL UN/UNF-2B	B HEX (in.)	K (in.)	L (in.)	STANDARD From Stock		
						S	SS	B
						4 FNL	1/4	9/16-18
6 FNL	3/8	11/16-16	13/16	0.39	0.76	9.2	9.2	
8 FNL	1/2	13/16-16	15/16	0.45	0.88	9.2	9.2	
10 FNL	5/8	1-14	1 1/8	0.51	1.04	6.0	6.0	
12 FNL	3/4	1 3/16-12	1 3/8	0.57	1.14	6.0	6.0	
14 FNL*	7/8	1 5/16-12	1 1/2	0.57	1.10	6.0	6.0	
16 FNL	1	1 7/16-12	1 5/8	0.61	1.18	6.0	6.0	
20 FNL	1 1/4	1 11/16-12	1 7/8	0.61	1.18	6.0	6.0	
24 FNL	1 1/2	2-12	2 1/4	0.61	1.18	5.0	5.0	
32 FNL*	2	2 1/2-12	2 7/8	0.80	1.47	3.0		

\* Sizes 14 and 32 are not included in SAE J1453.

Hose  
Assembly  
Equipment  
**D**

**FNML**

Cap  
ORFS








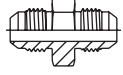

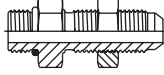
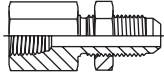
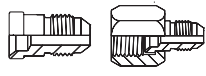
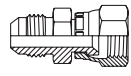
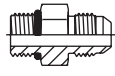
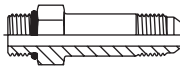
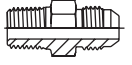

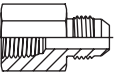
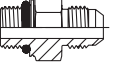
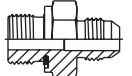
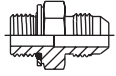
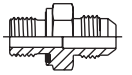
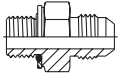
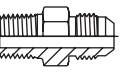
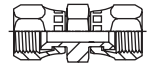

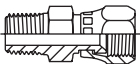

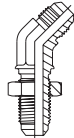
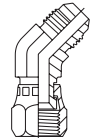
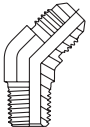
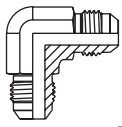
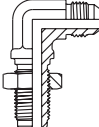
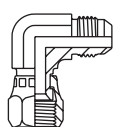
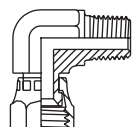
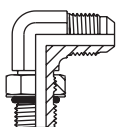
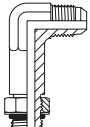
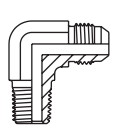
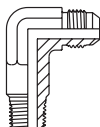
TUBE FITTING PART #	TUBE O.D.		T6 SWIVEL UN/UNF-2B	K (mm)	L (mm)	S HEX (mm)	STANDARD From Stock		
	(mm)	(in.)					S	SS	B
	4FNML	6					1/4	9/16-18	8.5
6FNML	8, 10	3/8	11/16-16	10.0	18.5	22	9.2		
8FNML	12	1/2	13/16-16	11.5	21.5	24			
10FNML	14, 15, 16	5/8	1-14	13.0	25.5	30			
12FNML	18, 20	3/4	1 3/16-12	14.5	28.0	36			
16FNML	22, 25	1	1 7/16-12	15.5	29.0	41			
20FNML	28, 30, 32	1 1/4	1 11/16-12	15.5	29.0	50			
24FNML	35, 38	1 1/2	2-12	15.5	29.0	60			

Adapters  
**E**

Accessories  
**F**

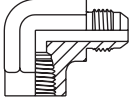
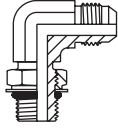
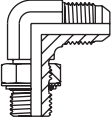
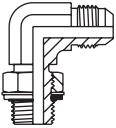

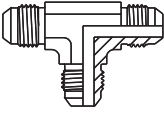
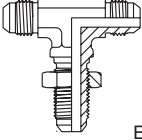
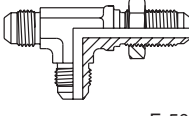
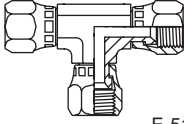
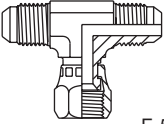
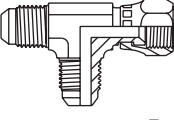
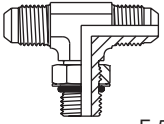
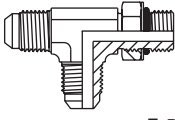
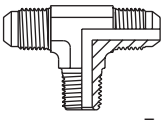
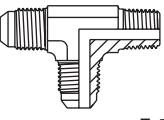
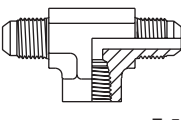
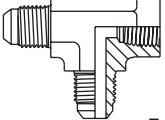
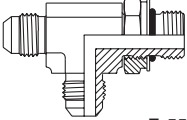
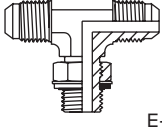

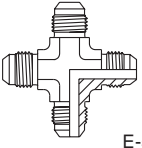




Appendices  
**G**



Nuts, Sleeves, Locknuts	<b>06B (BTX)</b> Nut  E-29	<b>06S (TX)</b> Sleeve  E-29	<b>53-XN (WLN)</b> Bulkhead Locknut  E-29	<b>SBR</b> Braze Ring  E-30	
	Straights	<b>0303 (HTX)</b> Union  E-30	<b>03L3 (LHTX)</b> Large Hex Union  E-30	<b>0353 (WTX)</b> Bulkhead Union  E-31	<b>0355 (WF5OX)</b> SAE-ORB / 37° Bulkhead  E-31
<b>0253 (WGTX)</b> NPTF / 37° Bulkhead  E-32		<b>0603 (TRTX / TRTXN)</b> Reducer  E-33	<b>XHX6</b> Extender and Expander  E-33	<b>0503 (F5OX)</b> SAE-ORB / 37° Flare  E-34	<b>5E03 (FF5OX)</b> SAE-ORB / 37° – Long  E-35
<b>0103 (FTX)</b> NPTF / 37° Flare  E-36	<b>013E (FFTX)</b> NPTF / 37° Flare – Long  E-36	<b>0203 (GTX)</b> NPTF / 37° Flare  E-36	<b>F87OMX</b> ISO 6149 / 37° Flare  E-37	<b>F82EDMX</b> Metric-ED / 37° Flare  E-37	<b>F8OMX</b> Metric-ORR / 37° Flare  E-37
<b>F42EDMX</b> BSPP-ED / 37° Flare  E-37	<b>F40MX</b> BSPP-ORR / 37° Flare  E-38	<b>F3MX</b> BSPT / 37° Flare  E-38	Straight Swivels	<b>0606 (HX6)</b> 37° Swivel Union  E-38	<b>0506 (F65OX)</b> SAE-ORB / 37° Swivel  E-38
<b>0106 (F6X)</b> NPTF / 37° Swivel  E-39	<b>0206 (G6X)</b> NPTF / 37° Swivel  E-39	45° Elbows		<b>3353 (WNTX)</b> Bulkhead Union  E-39	<b>3703 (V6X)</b> 37° Swivel Elbow  E-40
<b>3103 (VTX)</b> NPTF / 37° Flare  E-41	90° Elbows		<b>2303 (ETX)</b> Union Elbow  E-42	<b>2353 (WETX)</b> Bulkhead Union  E-42	<b>3903 (C6X)</b> 37° Swivel Elbow  E-42
<b>2106 (X6EF)</b> NPTF / 37° Swivel  E-43		<b>2503 (C5OX)</b> SAE-ORB / 37° Flare  E-44	<b>5503 (CC5OX)</b> SAE-ORB / 37° – Long  E-45	<b>2103 (CTX)</b> NPTF / 37° Flare  E-45	<b>5603 (CCTX)</b> NPTF / 37° Flare – Long  E-46

Hose	<b>A</b>
Fittings 21 Series	<b>B</b>
Parkrimp Crimping Equipment	<b>C</b>
Hose Assembly Equipment	<b>D</b>
Adapters	<b>E</b>
Accessories	<b>F</b>
Appendices	<b>G</b>

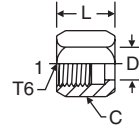
<b>A</b>	Hose
<b>B</b>	Fittings 21 Series
<b>C</b>	Parkrimp Crimping Equipment
<b>D</b>	Hose Assembly Equipment
<b>E</b>	Adapters
<b>F</b>	Accessories
<b>G</b>	Appendices

<b>2203 (DTX)</b> NPTF / 37° Flare  E-47	<b>C870MX</b> ISO-6149 / 37° Flare  E-47	<b>C80MX</b> Metric-ORR / 37° Flare  E-48	<b>C40MX</b> BSPP-ORR / 37° Flare  E-48	 Tees	<b>033T (JTX)</b> Union Tee  E-49
<b>543T (WJTX)</b> Bulkhead Branch Tee  E-50	<b>533T (WJJTX)</b> Bulkhead Run Tee  E-50	<b>069T (JX6)</b> 37° Swivel Union Tee  E-51	<b>393T (S6X)</b> 37° Swivel Branch Tee  E-51	<b>063T (R6X)</b> 37° Swivel Run Tee  E-51	<b>253T (S5OX)</b> SAE-ORB Branch Tee  E-52
<b>053T (R5OX)</b> SAE-ORB Run Tee  E-52	<b>213T (STX)</b> NPTF Branch Tee  E-53	<b>013T (RTX)</b> NPTF Run Tee  E-53	<b>223T (OTX)</b> NPTF Branch Tee  E-54	<b>023T (MTX)</b> NPTF Run Tee  E-54	<b>R870MX</b> ISO 6149 Run Tee  E-55
<b>S40MX</b> BSPP-ORR Branch Tee  E-55	 Cross	<b>033X (KTX)</b> Union Cross  E-55	 Plug and Cap	<b>03CP (PNTX)</b> 37° Plug  E-56	<b>06CP (FNTX)</b> 37° Cap  E-56
<b>T22X</b> Mountie Cap  E-56					

### 06B (BTX)

Nut  
37° Flare

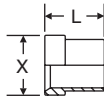
SAE 070110



TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1		T6 UN/UNF-2B	C HEX (in.)	D (in.)	L (in.)	STANDARD FROM STOCK		
		(in.)	(mm)					-S	-SS	-B
2 BTX	06B-2	1/8	—	5/16-24	3/8	0.18	0.55	•	•	•
3 BTX	06B-3	3/16	—	3/8-24	7/16	0.24	0.61	•	•	•
4 BTX	06B-4	1/4	6	7/16-20	9/16	0.31	0.62	•	•	•
5 BTX	06B-5	5/16	8	1/2-20	5/8	0.38	0.68	•	•	•
6 BTX	06B-6	3/8	10	9/16-18	11/16	0.44	0.73	•	•	•
8 BTX	06B-8	1/2	12	3/4-16	7/8	0.57	0.85	•	•	•
10 BTX	06B-10	5/8	14, 15, 16	7/8-14	1	0.70	0.98	•	•	•
12 BTX	06B-12	3/4	18	1 1/16-12	1 1/4	0.84	1.03	•	•	•
20-12 BTX	—	—	20	1 1/16-12	32.0mm	21.2mm	26.0mm	•	•	•
14 BTX	06B-14	7/8	—	1 3/16-12	1 3/8	0.96	1.09	•	•	•
16 BTX	06B-16	1	25	1 5/16-12	1 1/2	1.09	1.13	•	•	•
20 BTX	06B-20	1 1/4	28, 30, 32	1 5/8-12	2	1.35	1.23	•	•	•
24 BTX	06B-24	1 1/2	35, 38	1 7/8-12	2 1/4	1.62	1.42	•	•	•
32 BTX	06B-32	2	42, 50	2 1/2-12	2 7/8	2.17	1.75	•	•	•

### 06S (TX)

Sleeve  
37° Flare

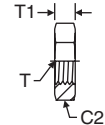


TUBE FITTING PART #	HOSE FITTING PART #	TUBE O.D. (in.)	L (in.)	X (in.)	STANDARD FROM STOCK		
					-S	-SS	-B
2 TX	06S-2	1/8	0.34	0.27	•	•	•
3 TX	06S-3	3/16	0.34	0.33	•	•	•
4 TX	06S-4	1/4	0.41	0.38	•	•	•
5 TX	06S-5	5/16	0.44	0.45	•	•	•
6 TX	06S-6	3/8	0.50	0.50	•	•	•
8 TX	06S-8	1/2	0.56	0.68	•	•	•
10 TX	06S-10	5/8	0.66	0.80	•	•	•
12 TX	06S-12	3/4	0.69	0.97	•	•	•
14 TX	06S-14	7/8	0.75	1.10	•	•	•
16 TX	06S-16	1	0.78	1.22	•	•	•
20 TX	06S-20	1 1/4	0.91	1.53	•	•	•
24 TX	06S-24	1 1/2	1.13	1.78	•	•	•
32 TX	06S-32	2	1.19	2.41	•	•	•

### 53-XN (WLN)

Bulkhead Locknut

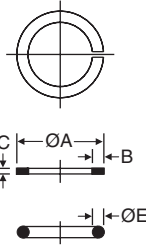
SAE 080118 and 070118



TUBE FITTING PART #	HOSE FITTING PART #	TUBE O.D. (in.)	C2 HEX (in.)	T1 (in.)	STANDARD FROM STOCK		
					-S	-SS	-B
3 WLN	53-3N	3/16	5/8	0.22	•	•	•
4 WLN	53-4N	1/4	11/16	0.28	•	•	•
5 WLN	53-5N	5/16	3/4	0.28	•	•	•
6 WLN	53-6N	3/8	13/16	0.27	•	•	•
8 WLN	53-8N	1/2	1	0.31	•	•	•
10 WLN	53-10N	5/8	1 1/8	0.36	•	•	•
12 WLN	53-12N	3/4	1 3/8	0.41	•	•	•
14 WLN	53-14N	7/8	1 1/2	0.41	•	•	•
16 WLN	53-16N	1	1 5/8	0.41	•	•	•
20 WLN	53-20N	1 1/4	1 7/8	0.41	•	•	•
24 WLN	53-24N	1 1/2	2 1/8	0.41	•	•	•
32 WLN	53-32N	2	2 3/4	0.41	•	•	•

## SBR

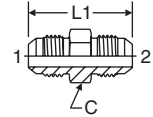
Braze Ring  
(For use with XHB3)



TUBE FITTING PART #	TUBE O.D. (in.)	A DIA. (in.)	B (in.)	C (in.)	E (in.)	STANDARD FROM STOCK		
						-S	-SS	-B
4SBR	1/4	0.260			0.05	•	•	
6SBR	3/8	0.390	0.07	0.03		•	•	
8SBR	1/2	0.515	0.07	0.03		•	•	
10SBR	5/8	0.640	0.07	0.03		•	•	
12SBR	3/4	0.765	0.08	0.04		•	•	
14SBR	7/8	0.890			0.06			
16SBR	1	1.015	0.08	0.04		•	•	
20SBR	1 1/4	1.265	0.08	0.04		•	•	
24SBR	1 1/2	1.515	0.08	0.04		•	•	
32SBR	2	2.015			0.09	•	•	

## 0303 (HTX)

Union  
37° Flare / 37° Flare

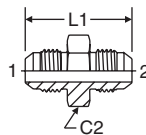


SAE 070101

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C HEX (in.)	L1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 (in.)			-S	-SS	-B
2 HTX	0303-2-2	1/8	1/8	7/16	1.17	7.5	9.0	3.3
3 HTX	0303-3-3	3/16	3/16	7/16	1.23	7.5	9.0	3.3
4 HTX	0303-4-4	1/4	1/4	1/2	1.38	7.5	9.0	3.3
4-2 HTX	0303-2-4	1/4	1/8	1/2	1.27		9.0	
4-3 HTX	0303-3-4	1/4	3/16	1/2	1.30		9.0	
5 HTX	0303-5-5	5/16	5/16	9/16	1.38	6.0	7.2	3.3
5-4 HTX	0303-4-5	5/16	1/4	9/16	1.38		7.2	
6 HTX	0303-6-6	3/8	3/8	5/8	1.41	6.0	7.2	3.3
6-4 HTX	0303-4-6	3/8	1/4	5/8	1.41	6.0	7.2	
6-5 HTX	0303-5-6	3/8	5/16	5/8	1.41		7.2	
8 HTX	0303-8-8	1/2	1/2	13/16	1.62	6.0	7.2	3.3
8-4 HTX	0303-4-8	1/2	1/4	13/16	1.52	6.0	7.2	
8-6 HTX	0303-6-8	1/2	3/8	13/16	1.52	6.0	7.2	
10 HTX	0303-10-10	5/8	5/8	15/16	1.88	5.0	6.0	3.3
10-8 HTX	0303-8-10	5/8	1/2	15/16	1.78	5.0	6.0	
12 HTX	0303-12-12	3/4	3/4	1 1/8	2.16	5.0	6.0	3.3
12-8 HTX	0303-8-12	3/4	1/2	1 1/8	1.95	5.0	6.0	
12-10 HTX	0303-10-12	3/4	5/8	1 1/8	2.05	5.0	6.0	
14 HTX	0303-14-14	7/8	7/8	1 1/4	2.22	5.0	6.0	2.6
16 HTX	0303-16-16	1	1	1 3/8	2.25	4.0	4.8	2.6
16-12 HTX	0303-12-16	1	3/4	1 3/8	2.20	4.0	4.8	
20 HTX	0303-20-20	1 1/4	1 1/4	1 11/16	2.44	4.0	4.8	
24 HTX	0303-24-24	1 1/2	1 1/2	2	2.75	3.0	3.6	
24-10 HTX	0303-10-24	1 1/2	5/8	2	2.42		3.6	
24-12 HTX	0303-12-24	1 1/2	3/4	2	2.53		3.6	
24-16 HTX	0303-16-24	1 1/2	1	2	2.58		3.6	
32 HTX	0303-32-32	2	2	2 5/8	3.41	2.0	2.4	
32-24 HTX	0303-24-32	2	1 1/2	2 5/8	2.81		2.4	

## 03L3 (LHTX)

Large Hex Union  
37° Flare / 37° Flare



SAE 070119

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1 TO 2 (in.)	C2 HEX (in.)	L1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					-S	-SS	-B
4 LHTX	03L3-4-4	1/4	11/16	1.38	7.5	9.0	3.3
4-3 LHTX	03L3-3-4	1/4 to 3/16	11/16	1.30		9.0	
5 LHTX	03L3-5-5	5/16	3/4	1.38	6.0		
6 LHTX	03L3-6-6	3/8	13/16	1.41	6.0	7.2	3.3
6-4 LHTX	03L3-4-6	3/8 to 1/4	13/16	1.41		7.2	
8 LHTX	03L3-8-8	1/2	1	1.62	6.0	7.2	3.3
8-4 LHTX	03L3-4-8	1/2 to 1/4	1	1.52		7.2	
8-6 LHTX	03L3-6-8	1/2 to 3/8	1	1.52		7.2	
10 LHTX	03L3-10-10	5/8	1 1/8	1.88	5.0	6.0	
12 LHTX	03L3-12-12	3/4	1 3/8	2.16	5.0	6.0	
12-8 LHTX	03L3-8-12	3/4 to 1/2	1 3/8	1.95		6.0	
16 LHTX	03L3-16-16	1	1 5/8	2.25	4.0	4.8	
32 LHTX	03L3-32-32	2	2 3/4	3.41		2.4	

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

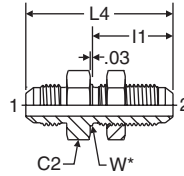
Accessories  
**F**

Appendices  
**G**

### 0353 (WTX)

Bulkhead Union  
37° Flare / 37° Flare

SAE 070601  
WTX-WLN – Body with locknut  
(See page E-29 for WLN)



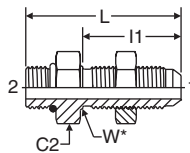
W\* – Bulkhead pilot dia.  
recommended clearance  
hole +.015 over W dia.

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C2	I 1	L4	W DIA.	MAX. BULKHEAD WALL THICKNESS (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)	HEX (in.)						-S	-SS	-B
3 WTX	0353-3-3N	3/16	5/8	1.11	1.91	0.38	0.38	7.5			
4 WTX	0353-4-4N	1/4	11/16	1.20	2.08	0.44	0.33	7.5	9.0	3.3	
5 WTX	0353-5-5N	5/16	3/4	1.20	2.08	0.50	0.33	6.0		3.3	
6 WTX	0353-6-6N	3/8	13/16	1.28	2.19	0.56	0.42	6.0	7.2	3.3	
8 WTX	0353-8-8N	1/2	1	1.44	2.44	0.75	0.44	6.0	7.2	3.3	
10 WTX	0353-10-10N	5/8	1 1/8	1.58	2.75	0.88	0.43	5.0	6.0	3.3	
12 WTX	0353-12-12N	3/4	1 3/8	1.75	3.09	1.06	0.44	5.0	6.0	3.3	
14 WTX	0353-14-14N	7/8	1 1/2	1.75	3.13	1.19	0.41	5.0			
16 WTX	0353-16-16N	1	1 5/8	1.75	3.14	1.31	0.39	4.0	4.8		
20 WTX	0353-20-20N	1 1/4	1 7/8	1.80	3.31	1.63	0.40	4.0	4.8		
24 WTX	0353-24-24N	1 1/2	2 1/8	1.81	3.52	1.88	0.28	3.0	3.6		
32 WTX	0353-32-32N	2	2 3/4	2.09	4.20	2.50	0.28	2.0	2.4		

### 0355 (WF5OX)

ORB Bulkhead Connector  
37° Flare / ORB

WF5OX-WLN – Body with locknut  
(See page E-29 for WLN)



W\* – Bulkhead pilot dia.  
recommended clearance  
hole +.015 over W dia.

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C2	I 1	L	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 UN/UNF-2A				-S	-SS	-B
4 WF5OX	0355-4-4	1/4	7/16-20	11/16	1.20	1.84	7.5		
6 WF5OX	0355-6-6	3/8	9/16-18	13/16	1.28	2.02	6.0		
8 WF5OX	0355-8-8	1/2	3/4-16	1	1.44	2.19	6.0		
10 WF5OX	0355-10-10	5/8	7/8-14	1 1/8	1.58	2.47	5.0		
12 WF5OX	0355-12-12	3/4	1 1/16-12	1 3/8	1.75	2.79	5.0		
16 WF5OX	0355-16-16	1	1 5/16-12	1 5/8	1.75	2.90	4.5		

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

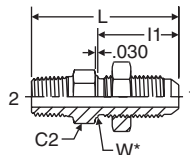




# 0153 (WFTX)

Male Bulkhead Connector  
37° Flare / NPTF

WFTX-WLN – Body with locknut  
(See page E-29 for WLN)



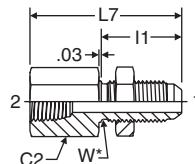
W\* – Bulkhead pilot dia.  
recommended clearance  
hole +.015 over W dia.

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C2 HEX (in.)	I 1 (in.)	L (in.)	W DIA. (in.)	MAX. BULKHEAD WALL THICKNESS (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF						-S	-SS	-B
		4 WFTX	0153-2-4N						1/4	1/8-27	11/16
4-4 WFTX	0153-4-4N	1/4	1/4-18	11/16	1.20	2.07	0.44	0.33	6.0	6.0	
6 WFTX	0153-4-6N	3/8	1/4-18	13/16	1.28	2.15	0.56	0.42	6.0	6.0	
6-6 WFTX	0153-6-6N	3/8	3/8-18	3/4	1.28	2.16	0.56	0.42	6.0	6.0	
6-8 WFTX	0153-8-6N	3/8	1/2-14	7/8	1.28	2.41	0.56	0.42	6.0	6.0	
8 WFTX	0153-6-8N	1/2	3/8-18	1	1.44	2.31	0.75	0.44	6.0	6.0	
8-8 WFTX	0153-8-8N	1/2	1/2-14	1	1.44	2.56	0.75	0.44	6.0	6.0	
10 WFTX	0153-8-10N	5/8	1/2-14	1 1/8	1.58	2.71	0.88	0.43	5.0	5.0	
12 WFTX	0153-12-12N	3/4	3/4-14	1 3/8	1.75	2.95	1.06	0.44	5.0	5.0	
16 WFTX	0153-16-16N	1	1-11 1/2	1 5/8	1.75	3.14	1.31	0.39	4.5	4.5	

# 0253 (WGTX)

Female Bulkhead Connector  
37° Flare / NPTF

WGTX-WLN – Body with locknut  
(See page E-29 for WLN)



W\* – Bulkhead pilot dia.  
recommended clearance  
hole +.015 over W dia.

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C2 HEX (in.)	I 1 (in.)	L7 (in.)	W DIA. (in.)	MAX. BULKHEAD WALL THICKNESS (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF						-S	-SS	-B
		4 WGTX	0253-2-4N						1/4	1/8-27	11/16
4-4 WGTX	0253-4-4N	1/4	1/4-18	3/4	1.33	2.11	0.44	0.33	6.0	6.0	
6 WGTX	0253-4-6N	3/8	1/4-18	13/16	1.28	2.06	0.56	0.42	6.0	6.0	
6-6 WGTX	0253-6-6N	3/8	3/8-18	7/8	1.28	2.24	0.56	0.42	6.0	6.0	
8 WGTX	0253-6-8N	1/2	3/8-18	1	1.44	2.34	0.75	0.44	6.0	6.0	
8-8 WGTX	0253-8-8N	1/2	1/2-14	1 1/8	1.44	2.61	0.75	0.44	5.0	5.0	
10 WGTX	0253-8-10N	5/8	1/2-14	1 1/8	1.58	2.66	0.88	0.43	5.0	5.0	
12 WGTX	0253-12-12N	3/4	3/4-14	1 3/8	1.75	2.91	1.06	0.44	4.0	4.0	
14 WGTX	0253-12-14N	7/8	3/4-14	1 1/2	1.75	2.89	1.19	0.41	4.0	4.0	
16 WGTX	0253-16-16N	1	1-11 1/2	1 5/8	1.75	3.09	1.31	0.39	3.0	3.0	
24 WGTX	0253-24-24N	1 1/2	1 1/2-11 1/2	2 1/4	1.81	3.35	1.88	0.28	2.0	2.0	

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

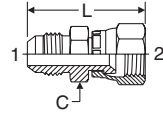
Accessories  
F

Appendices  
G



# XHX6

Extender and Expander  
37° Flare / 37° Flare Swivel

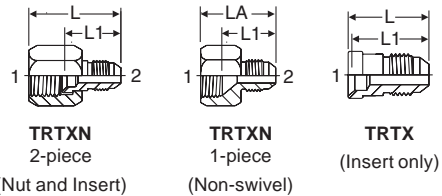


TUBE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)			-S	-SS	-B
4 XHX6	1/4	1/4	9/16	1.39	7.5		
6 XHX6	3/8	3/8	5/8	1.50	5.0		
6-4 XHX6	3/8	1/4	5/8	1.50	5.0		
8 XHX6	1/2	1/2	13/16	1.71	5.0		
8-6 XHX6	1/2	3/8	13/16	1.72	5.0		
10 XHX6	5/8	5/8	1	2.01	5.0		
10-8 XHX6	5/8	1/2	15/16	1.93	5.0		
12 XHX6	3/4	3/4	1 1/4	2.27	5.0		
12-10 XHX6	3/4	5/8	1 1/8	2.20	5.0		
16 XHX6	1	1	1 1/2	2.47	3.6		
16-12 XHX6	1	3/4	1 1/2	2.31	3.6		
20-16 XHX6	1 1/4	1	1 11/16	2.50	3.6		

# 0603 (TRTX)

Reducer  
37° Flare

SAE 070123 / SAE 070123A

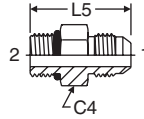


TUBE FITTING PART #			HOSE FITTING PART #	END SIZE		L (in.)	LA (in.)	L1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
TRTXN	TRTXN	TRTX		1 (in.)	2 (in.)				-S	-SS	-B
2-pc. Design (Insert with Large Nut)	1-pc. Design (Machined Female)	Reducer Insert (For 2-pc. Design Only)									
4-2 TRTXN	-	4-2 TRTX	0603-4-2	1/4	1/8	0.75	1.14	0.69		9.0	
-	4-3 TRTXN	-	-	1/4	3/16	-	1.09	0.66		9.0	
-	5-4 TRTXN	-	-	5/16	1/4	-	1.16	0.71	6.0	7.2	
6-4 TRTXN	-	6-4 TRTX	0603-6-4	3/8	1/4	0.97	1.40	0.90	6.0	7.2	3.3
-	6-5 TRTXN	-	-	3/8	3/16	-	1.19	0.73	6.0	7.2	
8-4 TRTXN	-	8-4 TRTX	0603-8-4	1/2	1/4	1.00	1.50	0.91	6.0	7.2	3.3
8-6 TRTXN	-	8-6 TRTX	0603-8-6	1/2	3/8	1.00	1.50	0.91	6.0	7.2	3.3
10-4 TRTXN	-	10-4 TRTX	0603-10-4	5/8	1/4	1.03	1.61	0.95	5.0	6.0	
10-6 TRTXN	-	10-6 TRTX	0603-10-6	5/8	3/8	1.03	1.61	0.95	5.0	6.0	3.3
-	10-8 TRTXN	-	-	5/8	1/2	-	1.48	0.89	5.0	6.0	
12-4 TRTXN	-	12-4 TRTXN	0603-12-4	3/4	1/4	1.09	1.69	0.98	5.0	6.0	3.3
12-6 TRTXN	-	12-6 TRTXN	0603-12-6	3/4	3/8	1.09	1.69	0.98	5.0	6.0	3.3
12-8 TRTXN	-	12-8 TRTXN	0603-12-8	3/4	1/2	1.19	1.79	1.08	5.0	6.0	3.3
-	12-10 TRTXN	-	-	3/4	5/8	-	1.66	1.02	5.0	6.0	
14-6 TRTXN	-	14-6 TRTX	0603-14-6	7/8	3/8	1.13	1.77	1.01	5.0		
14-10 TRTXN	-	14-10 TRTX	0603-14-10	7/8	5/8	1.33	1.98	1.22	5.0		
-	14-12 TRTXN	-	-	7/8	3/4	-	1.84	1.15	5.0		
16-4 TRTXN	-	16-4 TRTX	0603-16-4	1	1/4	1.22	1.90	1.06		4.8	
16-6 TRTXN	-	16-6 TRTX	0603-16-6	1	3/8	1.22	1.90	1.06		4.8	
16-8 TRTXN	-	16-8 TRTX	0603-16-8	1	1/2	1.27	1.95	1.15	4.0	4.8	
16-10 TRTXN	-	16-10 TRTX	0603-16-10	1	5/8	1.38	2.06	1.20	4.0		
16-12 TRTXN	-	16-12 TRTX	0603-16-12	1	3/4	1.47	2.15	1.36	4.0	4.8	
-	16-14 TRTXN	-	-	1	8/7	-	1.91	1.20	4.0		
20-12 TRTXN	-	20-12 TRTX	0603-20-12	1 1/4	3/4	1.53	2.23	1.37	4.0	4.8	
20-16 TRTXN	-	20-16 TRTX	0603-20-16	1 1/4	1	1.59	2.30	1.44	4.0	4.8	
24-8 TRTXN	-	24-8 TRTX	0603-24-8	1 1/2	1/2	1.56	2.39	1.31		3.6	
24-12 TRTXN	-	24-12 TRTX	0603-24-12	1 1/2	3/4	1.63	2.46	1.43		3.6	
24-16 TRTXN	-	24-16 TRTX	0603-24-16	1 1/2	1	1.63	2.46	1.43	3.0	3.6	
24-20 TRTXN	-	24-20 TRTX	0603-24-20	1 1/2	1 1/4	1.69	2.52	1.47	3.0		
32-24 TRTXN	-	32-24 TRTX	0603-32-24	2	1 1/2	1.91	2.96	1.64	2.0	2.4	



A Hose  
 B Fittings 21 Series  
 C Parkrimp Crimping Equipment  
 D Hose Assembly Equipment  
 E Adapters  
 F Accessories  
 G Appendices

0503 (F5OX)  
Straight Thread Connector  
37° Flare / SAE-ORB



SAE 070120

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C4 HEX (in.)	L5 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 UN/UNF-2A			-S	-SS	-B
2 F5OX	0503-2-2	1/8	5/16-24	7/16	1.06	7.5	9.0	
3 F5OX	0503-3-3	3/16	3/8-24	1/2	1.10	7.5	9.0	
3-2 F5OX	0503-2-3	3/16	5/16-24	1/2	1.10		9.0	
4 F5OX	0503-4-4	1/4	7/16-20	9/16	1.23	7.5	9.0	
4-3 F5OX	0503-3-4	1/4	3/8-24	9/16	1.19		9.0	
4-5 F5OX	0503-5-4	1/4	1/2-20	5/8	1.23	6.0	7.2	
4-6 F5OX	0503-6-4	1/4	9/16-18	11/16	1.28	6.0	7.2	
4-8 F5OX	0503-8-4	1/4	3/4-16	7/8	1.38	6.0	7.2	
4-10 F5OX	0503-10-4	1/4	7/8-14	1	1.49	5.0		
5 F5OX	0503-5-5	5/16	1/2-20	5/8	1.23	6.0	7.2	
5-4 F5OX	0503-4-5	5/16	7/16-20	9/16	1.23	6.0		
5-6 F5OX	0503-6-5	5/16	9/16-18	11/16	1.30	6.0		
5-8 F5OX	0503-8-5	5/16	3/4-16	7/8	1.37	6.0		
6 F5OX	0503-6-6	3/8	9/16-18	11/16	1.30	6.0	7.2	
6-4 F5OX	0503-4-6	3/8	7/16-20	5/8	1.27	6.0	7.2	
6-5 F5OX	0503-5-6	3/8	1/2-20	5/8	1.27	6.0		
6-8 F5OX	0503-8-6	3/8	3/4-16	7/8	1.38	6.0	7.2	
6-10 F5OX	0503-10-6	3/8	7/8-14	1	1.50	5.0	6.0	
6-12 F5OX	0503-12-6	3/8	1 1/16-12	1 1/4	1.66	5.0	6.0	
8 F5OX	0503-8-8	1/2	3/4-16	7/8	1.48	6.0	7.2	
8-4 F5OX	0503-4-8	1/2	7/16-20	13/16	1.50	6.0	7.2	
8-6 F5OX	0503-6-8	1/2	9/16-18	13/16	1.44	6.0	7.2	
8-10 F5OX	0503-10-8	1/2	7/8-14	1	1.59	5.0	6.0	
8-12 F5OX	0503-12-8	1/2	1 1/16-12	1 1/4	1.77	5.0	6.0	
8-16 F5OX	0503-16-8	1/2	1 5/16-12	1 1/2	1.78	4.5	5.4	
10 F5OX	0503-10-10	5/8	7/8-14	1	1.70	5.0	6.0	
10-6 F5OX	0503-6-10	5/8	9/16-18	11/16	1.71	5.0	6.0	
10-8 F5OX	0503-8-10	5/8	3/4-16	15/16	1.64	5.0	6.0	
10-12 F5OX	0503-12-10	5/8	1 1/16-12	1 1/4	1.86	5.0	6.0	
10-16 F5OX	0503-16-10	5/8	1 5/16-12	1 1/2	1.89	4.5	5.4	
12 F5OX	0503-12-12	3/4	1 1/16-12	1 1/4	1.97	5.0	6.0	
12-8 F5OX	0503-8-12	3/4	3/4-16	1 1/8	1.94	5.0	6.0	
12-10 F5OX	0503-10-12	3/4	7/8-14	1 1/8	1.88	5.0	6.0	
12-14 F5OX	0503-14-12	3/4	1 3/16-12	1 3/8	1.96	5.0		
12-16 F5OX	0503-16-12	3/4	1 5/16-12	1 1/2	1.99	4.5	5.4	
12-20 F5OX	0503-20-12	3/4	1 5/8-12	1 7/8	2.08	4.0		
14 F5OX	0503-14-14	7/8	1 3/16-12	1 3/8	1.99	5.0		
14-16 F5OX	0503-16-14	7/8	1 5/16-12	1 1/2	2.02	4.5		
16 F5OX	0503-16-16	1	1 5/16-12	1 1/2	2.05	4.5	5.4	
16-8 F5OX	0503-8-16	1	3/4-16	1 3/8	1.78	4.5	5.4	
16-10 F5OX	0503-10-16	1	7/8-14	1 3/8	2.08	4.5	5.4	
16-12 F5OX	0503-12-16	1	1 1/16-12	1 3/8	1.99	4.5	5.4	
16-14 F5OX	0503-14-16	1	1 3/16-12	1 3/8	2.05	4.5		
16-20 F5OX	0503-20-16	1	1 5/8-12	1 7/8	2.13	4.0	4.8	
16-24 F5OX	0503-24-16	1	1 7/8-12	2 1/8	2.20	3.0		
20 F5OX	0503-20-20	1 1/4	1 5/8-12	1 7/8	2.17	4.0	4.8	
20-12 F5OX	0503-12-20	1 1/4	1 1/16-12	1 11/16	2.30	4.0	4.8	
20-16 F5OX	0503-16-20	1 1/4	1 5/16-12	1 11/16	2.33	4.0	4.8	
20-24 F5OX	0503-24-20	1 1/4	1 7/8-12	2 1/8	2.24	3.0	3.6	
24 F5OX	0503-24-24	1 1/2	1 7/8-12	2 1/8	2.38	3.0	3.6	
24-20 F5OX	0503-20-24	1 1/2	1 5/8-12	2	2.53	3.0	3.6	
24-32 F5OX	0503-32-24	1 1/2	2 1/2-12	2 3/4	2.53	2.0		
32 F5OX	0503-32-32	2	2 1/2-12	2 3/4	2.78	2.0	2.4	
32-24 F5OX	0503-32-24	2	1 7/8-12	2 5/8	2.94	2.0		

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

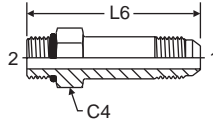
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

### 05E3 (FF5OX)

Long Straight Thread Connector  
37° Flare / SAE-ORB



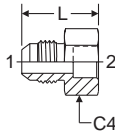
SAE 071720

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C4 HEX (in.)	L6 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 UN/UNF-2A			-S	-SS	-B
4 FF5OX	05E3-4-4	1/4	7/16-20	9/16	2.08	7.5	9.0	
4-6 FF5OX	05E3-6-4	1/4	9/16-18	11/16	2.13		7.2	
6 FF5OX	05E3-6-6	3/8	9/16-18	11/16	2.31	6.0	7.2	
8 FF5OX	05E3-8-8	1/2	3/4-16	7/8	2.70	6.0	7.2	
10 FF5OX	05E3-10-10	5/8	7/8-14	1	3.03	5.0	6.0	
12 FF5OX	05E3-12-12	3/4	1 1/16-12	1 1/4	3.61	5.0	6.0	
16 FF5OX	05E3-16-16	1	1 5/16-12	1 1/2	3.98	4.5	5.4	
20 FF5OX	05E3-20-20	1 1/4	1 5/8-12	1 7/8	4.69	4.0		

### XHB3

Braze Socket

37° Flare / Inch Tube Braze



TUBE FITTING PART #	END SIZE		C4 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)			-S	-SS	-B
4 XHB3	1/4	1/4	9/16	0.97	7.5		
6 XHB3	3/8	3/8	5/8	1.00	6.0		
6-4 XHB3	3/8	1/4	5/8	1.00	6.0		
6-8 XHB3	3/8	1/2	5/8	1.00	6.0		
8 XHB3	1/2	1/2	13/16	1.12	6.0		
8-10 XHB3	1/2	5/8	13/16	1.12	5.0		
10 XHB3	5/8	5/8	15/16	1.21	5.0		
10-8 XHB3	5/8	1/2	15/16	1.21	5.0		
10-12 XHB3	5/8	3/4	1 1/8	1.37	5.0		
12 XHB3	3/4	3/4	1 1/4	1.51	5.0		
12-10 XHB3	3/4	5/8	1 1/8	1.51	5.0		
12-16 XHB3	3/4	1	1 1/4	1.57	4.0		
16 XHB3	1	1	1 3/8	1.63	4.0		
16-20 XHB3	1	1 1/4	1 11/16	1.73	4.0		
20 XHB3	1 1/4	1 1/4	1 11/16	1.71	4.0		
20-24XHB3	1 1/4	1 1/2	2	1.71	3.0		
24 XHB3	1 1/2	1 1/2	2	1.84	3.0		
32 XHB3	2	2	2 5/8	2.16	2.0		

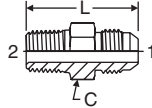
Note: Braze rings are on page E-30.

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



0103 (FTX)

Male Connector  
37° Flare / NPTF

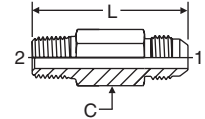


SAE 070102

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF			-S	-SS	-B
2 FTX	0103-2-2	1/8	1/8-27	7/16	1.11	6.0	6.0	3.3
3 FTX	0103-2-3	3/16	1/8-27	7/16	1.14	6.0	6.0	3.3
4 FTX	0103-2-4	1/4	1/8-27	1/2	1.22	6.0	6.0	3.3
4-4 FTX	0103-4-4	1/4	1/4-18	9/16	1.42	6.0	6.0	3.3
4-6 FTX	0103-6-4	1/4	3/8-18	3/4	1.44	6.0	6.0	
4-8 FTX	0103-8-4	1/4	1/2-14	7/8	1.69	6.0	6.0	3.3
5 FTX	0103-2-5	5/16	1/8-27	9/16	1.22	6.0	6.0	3.3
5-4 FTX	0103-4-5	5/16	1/4-18	9/16	1.42	6.0	6.0	3.3
5-6 FTX	0103-6-5	5/16	3/8-18	3/4	1.44	6.0	6.0	
6 FTX	0103-4-6	3/8	1/4-18	5/8	1.43	6.0	6.0	3.3
6-2 FTX	0103-2-6	3/8	1/8-27	5/8	1.24	6.0	6.0	3.3
6-6 FTX	0103-6-6	3/8	3/8-18	3/4	1.44	6.0	6.0	3.3
6-8 FTX	0103-8-6	3/8	1/2-14	7/8	1.69	6.0	6.0	3.3
6-12 FTX	0103-12-6	3/8	3/4-14	1 1/8	1.75	5.5	5.5	
8 FTX	0103-6-8	1/2	3/8-18	13/16	1.53	6.0	6.0	3.3
8-2 FTX	0103-2-8	1/2	1/8-27	1 3/16	1.34	6.0	6.0	
8-4 FTX	0103-4-8	1/2	1/4-18	13/16	1.53	6.0	6.0	3.3
8-8 FTX	0103-8-8	1/2	1/2-14	7/8	1.78	6.0	6.0	3.3
8-12 FTX	0103-12-8	1/2	3/4-14	1 1/8	1.85	5.5	5.5	2.6
8-16 FTX	0103-16-8	1/2	1-11 1/2	1 3/8	2.05	4.5	4.5	
10 FTX	0103-8-10	5/8	1/2-14	15/16	1.89	5.0	5.0	3.3
10-6 FTX	0103-6-10	5/8	3/8-18	15/16	1.70	5.0	5.0	3.3
10-12 FTX	0103-12-10	5/8	3/4-14	1 1/8	1.95	5.0	5.0	
12 FTX	0103-12-12	3/4	3/4-14	1 1/8	2.06	5.0	5.0	2.6
12-6 FTX	0103-6-12	3/4	3/8-18	1 1/8	1.88	5.0	5.0	
12-8 FTX	0103-8-12	3/4	1/2-14	1 1/8	2.06	5.0	5.0	2.9
12-16 FTX	0103-16-12	3/4	1-11 1/2	1 3/8	2.25	5.0	5.0	
12-20 FTX	0103-20-12	3/4	1 1/4-11 1/2	1 11/16	2.36	5.0		
14 FTX	0103-12-14	7/8	3/4-14	1 1/4	2.09	5.0	5.0	
16 FTX	0103-16-16	1	1-11 1/2	1 3/8	2.30	4.5	4.5	2.0
16-8 FTX	0103-8-16	1	1/2-14	1 3/8	2.11	4.5	4.5	
16-12 FTX	0103-12-16	1	3/4-14	1 3/8	2.11	4.5	4.5	2.3
16-20 FTX	0103-20-16	1	1 1/4-11 1/2	1 11/16	2.41	3.0	3.0	
20 FTX	0103-20-20	1 1/4	1 1/4-11 1/2	1 11/16	2.45	3.0	3.0	1.6
20-16 FTX	0103-16-20	1 1/4	1-11 1/2	1 11/16	2.42	3.0		2.0
20-24 FTX	0103-24-20	1 1/4	1 1/2-11 1/2	2	2.55	3.0	3.0	
24 FTX	0103-24-24	1 1/2	1 1/2-11 1/2	2	2.67	3.0	3.0	1.3
24-16 FTX	0103-16-24	1 1/2	1-11 1/2	2	2.62	3.0	3.0	
24-20 FTX	0103-20-24	1 1/2	1 1/4-11 1/2	2	2.66	3.0		
24-32 FTX	0103-32-24	1 1/2	2-11 1/2	2 5/8	2.86	2.0		
32 FTX	0103-32-32	2	2-11 1/2	2 5/8	3.11	2.0	2.0	
32-24 FTX	0103-24-32	2	1 1/2-11 1/2	2 5/8	3.08	2.0	2.0	
40 FTX	0103-40-40	2 1/2	2 1/2-8	3 1/4	3.38	1.0		

013E (FFTX)

Long Male Connector  
37° Flare / NPTF

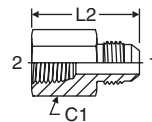


SAE 071802

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF			-S	-SS	-B
4 FFFX	013E-2-4	1/4	1/8-27	1/2	1.81	6.0	6.0	
4-4 FFFX	013E-4-4	1/4	1/4-18	9/16	2.25	6.0	6.0	
6 FFFX	013E-4-6	3/8	1/4-18	5/8	2.25	6.0	6.0	
6-6 FFFX	013E-6-6	3/8	3/8-18	3/4	2.50	6.0	6.0	
8 FFFX	013E-6-8	1/2	3/8-18	13/16	2.75	6.0		
8-8 FFFX	013E-8-8	1/2	1/2-14	15/16	2.80	6.0		
10 FFFX	013E-8-10	5/8	1/2-14	15/16	3.12	5.0		
12 FFFX	013E-12-12	3/4	3/4-14	1 1/8	3.50	5.0	5.0	

0203 (GTX)

Female Connector  
37° Flare / NPTF



SAE 070103

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C1 HEX (in.)	L2 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF			-S	-SS	-B
2 GTX	0203-2-2	1/8	1/8-27	9/16	1.12	6.0	6.0	3.3
3 GTX	0203-3-3	3/16	1/8-27	9/16	1.13			3.3
4 GTX	0203-2-4	1/4	1/8-27	9/16	1.19	6.0	6.0	3.3
4-4 GTX	0203-4-4	1/4	1/4-18	3/4	1.39	6.0	6.0	3.3
4-6 GTX	0203-6-4	1/4	3/8-18	7/8	1.45	6.0		
4-8 GTX	0203-8-4	1/4	1/2-14	1 1/8	1.68	6.0		
5 GTX	0203-2-5	5/16	1/8-27	9/16	1.17	6.0	6.0	3.3
5-4 GTX	0203-4-5	5/16	1/4-18	3/4	1.39	6.0	6.0	3.3
6 GTX	0203-4-6	3/8	1/4-18	3/4	1.41	6.0	6.0	3.3
6-2 GTX	0203-2-6	3/8	1/8-27	5/8	1.19	6.0		
6-6 GTX	0203-6-6	3/8	3/8-18	7/8	1.46	6.0	6.0	3.3
6-8 GTX	0203-8-6	3/8	1/2-14	1 1/8	1.69	5.0	5.0	
8 GTX	0203-6-8	1/2	3/8-18	7/8	1.56	6.0	6.0	3.3
8-4 GTX	0203-4-8	1/2	1/4-18	13/16	1.55	6.0	6.0	
8-8 GTX	0203-8-8	1/2	1/2-14	1 1/8	1.79	5.0	5.0	3.3
8-12 GTX	0203-12-8	1/2	3/4-14	1 3/8	1.85	4.0	4.0	
10 GTX	0203-8-10	5/8	1/2-14	1 1/8	1.89	5.0	5.0	3.3
10-12 GTX	0203-12-10	5/8	3/4-14	1 3/8	1.95	4.0	4.0	
12 GTX	0203-12-12	3/4	3/4-14	1 3/8	2.06	4.0	4.0	2.6
12-8 GTX	0203-8-12	3/4	1/2-14	1 1/8	2.05	5.0	5.0	
12-16 GTX	0203-16-12	3/4	1-11 1/2	1 5/8	2.30	3.0	3.0	
14 GTX	0203-12-14	7/8	3/4-14	1 3/8	2.06	4.0	4.0	
16 GTX	0203-16-16	1	1-11 1/2	1 5/8	2.35	3.0	3.0	2.0
16-12 GTX	0203-12-16	1	3/4-14	1 3/8	2.13	4.0	4.0	
16-20 GTX	0203-20-16	1	1 1/4-11 1/2	2	2.44	2.5	2.5	
20 GTX	0203-20-20	1 1/4	1 1/4-11 1/2	2	2.49	2.5	2.5	
20-16 GTX	0203-16-20	1 1/4	1-11 1/2	1 3/4	2.47	3.0	3.0	
24 GTX	0203-24-24	1 1/2	1 1/2-11 1/2	2 3/8	2.62	2.0	2.0	
32 GTX	0203-32-32	2	2-11 1/2	2 7/8	2.97	1.5	1.5	

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

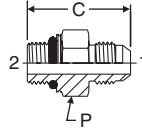
Accessories  
F

Appendices  
G



### F87OMX

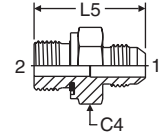
Male Connector – ISO 6149  
37° Flare / ISO 6149



TUBE FITTING PART #	END SIZE		C (mm)	P (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 Male Metric Parallel Thread			-S	-SS	-B
5M12F87OMX	8	M12x1.5	33.5	19	6.0		
6M14F87OMX	10	M14x1.5	33.5	19	6.0	6.0	
6M16F87OMX	10	M16x1.5	35.1	22	6.0		
8M16F87OMX	12	M16x1.5	37.6	22	6.0		
8M18F87OMX	12	M18x1.5	39.1	24	5.0	5.0	
10M18F87OMX	14, 15, 16	M18x1.5	41.7	24	5.0		
10M22F87OMX	14, 15, 16	M22x1.5	42.9	27	5.0	5.0	
12M22F87OMX	18, 20	M22x1.5	45.5	27	5.0		
12M27F87OMX	18, 20	M27x2	49.0	32	5.0	5.0	
16M27F87OMX	25	M27x2	50.5	36	5.0		
16M33F87OMX	25	M33x2	51.6	41	4.0		
20M42F87OMX	30, 32	M42x2	54.9	50	4.0		
24M48F87OMX	38	M48x2	59.4	55	3.0		

### F82EDMX

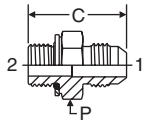
Male Connector – Metric  
37° Flare / Metric-ED



TUBE FITTING PART #	END SIZE		C4 (mm)	L5 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 Male Metric Parallel Thread			-S	-SS	-B
5M12F82EDMX	8	M12x1.5	17	33.5	6.0		
6M14F82EDMX	10	M14x1.5	19	33.5	6.0		
6M16F82EDMX	10	M16x1.5	22	35.1	6.0		
8M16F82EDMX	12	M16x1.5	22	37.6	6.0		
8M18F82EDMX	12	M18x1.5	24	39.1	5.0		
10M18F82EDMX	14, 15, 16	M18x1.5	24	41.7	5.0		
10M22F82EDMX	14, 15, 16	M22x1.5	27	42.9	5.0		
12M22F82EDMX	18, 20	M22x1.5	27	45.5	5.0		
12M27F82EDMX	18, 20	M27x2	32	49.0	5.0		
16M27F82EDMX	25	M27x2	36	52.7	4.5		
16M33F82EDMX	25	M33x2	41	51.6	4.0		
20M42F82EDMX	30, 32	M42x2	50	54.9	4.0		

### F8OMX

Male Connector – Metric  
37° Flare / Metric-ORR

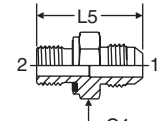


TUBE FITTING PART #	END SIZE		C (mm)	P (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 Male Metric Parallel Thread			-S	-SS	-B
5M12F8OMX	8	M12x1.5	33.5	19	5.0		
6M14F8OMX	10	M14x1.5	33.5	19	5.0		
8M16F8OMX	12	M16x1.5	37.6	22	5.0		
8M18F8OMX	12	M18x1.5	39.1	24	3.6		
10M18F8OMX	14, 15, 16	M18x1.5	41.7	24	3.6		
10M20F8OMX	14, 15, 16	M20x1.5	44.6	27	3.0		
10M22F8OMX	14, 15, 16	M22x1.5	42.9	27	3.6		
12M22F8OMX	18, 20	M22x1.5	45.5	27	3.6		
12M24F8OMX	18, 20	M24x1.5	44.5	30	3.0		
12M27F8OMX	18, 20	M27x2	49.0	32	3.0		
16M27F8OMX	25	M27x2	50.5	36	3.0		
16M33F8OMX	25	M33x2	51.6	41	3.0		
20M42F8OMX	30, 32	M42x2	54.9	50	3.0		
24M48F8OMX	38	M48x2	59.4	55			

Note: If F8OMX is not available, use F82EDMX.

### F42EDMX

Male Connector – BSPP  
37° Flare / BSPP-ED



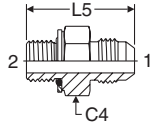
TUBE FITTING PART #	END SIZE		C4 (mm)	L5 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 BSPP			-S	-SS	-B
4-4F42EDMX	6	1/4-19	19	34.8	6.0		
4-6F42EDMX	6	3/8-19	22	35.7	6.0		
4-8F42EDMX	6	1/2-14	30	39.2	5.0		
5F42EDMX	8	1/8-28	14	30.0	6.0		
5-4F42EDMX	8	1/4-19	19	34.8	6.0		
5-6F42EDMX	8	3/8-19	22	35.7	6.0		
6-2F42EDMX	10	1/8-28	16	31.0	6.0		
6F42EDMX	10	1/4-19	19	35.1	6.0		
6-6F42EDMX	10	3/8-19	22	36.0	6.0		
6-8F42EDMX	10	1/2-14	30	39.4	5.0		
8F42EDMX	12	3/8-19	22	33.5	6.0		
8-4F42EDMX	12	1/4-19	19	38.7	6.0		
8-8F42EDMX	12	1/2-14	30	42.0	5.0		
8-12F42EDMX	12	3/4-14	36	45.6	5.0		
10F42EDMX	14, 15, 16	1/2-14	30	44.5	5.0		
10-6F42EDMX	14, 15, 16	3/8-19	24	42.6	5.0		
10-12F42EDMX	14, 15, 16	3/4-14	32	48.1	5.0		
12F42EDMX	18, 20	3/4-14	36	50.9	5.0		
12-6F42EDMX	18, 20	3/8-19	27	50.1	5.0		
12-8F42EDMX	18, 20	1/2-14	30	49.0	5.0		
12-16F42EDMX	18, 20	1-11	46	53.4	4.0		
16F42EDMX	25	1-11	46	54.7	4.0		
16-12F42EDMX	25	3/4-14	36	52.7	4.5		
16-20F42EDMX	25	1 1/4-11	50	58.7	4.0		
20-16F42EDMX	30, 32	1-11	46	62.1	4.0		
20F42EDMX	30, 32	1 1/4-11	50	60.0	4.0		
20-24F42EDMX	30, 32	1 1/2-11	55	63.8	3.0		
24F42EDMX	38	1 1/2-11	55	67.1	3.0		
24-20F42EDMX	38	1 1/4-11	50	63.8	3.0		



Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

F4OMX

Male Connector – BSPP  
37° Flare / BSPP-ORR

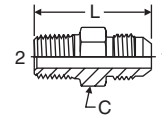


TUBE FITTING PART #	END SIZE		C4 (mm)	L5 (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 BSPP			-S	-SS	-B
	4F4OMX	6			1/8-28	16	28.7
4-4F4OMX	6	1/4-19	19	32.0	5.0		
4-6F4OMX	6	3/8-19	22	33.0	5.0		
4-8F4OMX	6	1/2-14	30	38.6	5.0		
5-4F4OMX	8	1/4-19	19	32.0	5.0		
5-6F4OMX	8	3/8-19	22	33.0	5.0		
6F4OMX	10	1/4-19	19	32.0	5.0		
6-6F4OMX	10	3/8-19	22	33.0	5.0		
6-8F4OMX	10	1/2-14	30	38.6	5.0		
8-4F4OMX	12	1/4-19	19	35.0	5.0		
8F4OMX	12	3/8-19	22	36.0	5.0		
8-8F4OMX	12	1/2-14	30	41.4	5.0		
8-12F4OMX	12	3/4-14	36	42.4	4.0		
10-6F4OMX	14, 15, 16	3/8-19	24	39.1	5.0		
10F4OMX	14, 15, 16	1/2-14	30	43.9	5.0		
12-8F4OMX	18, 20	1/2-14	30	46.7	5.0		
12F4OMX	18, 20	3/4-14	36	47.5	4.0		
12-16F4OMX	18, 20	1-11	46	52.6	4.0		
16-12F4OMX	25	3/4-14	36	48.5	4.0		
16F4OMX	25	1-11	46	53.6	4.0		
16-20F4OMX	25	1 1/4-11	50	55.1	3.6		
20F4OMX	30, 32	1 1/4-11	50	56.9	3.6		
24-20F4OMX	38	1 1/4-11	50	60.4	3.0		
24F4OMX	38	1 1/2-11	55	61.0	3.0		

Note: If F4OMX is not available, use F42EDMX.

F3MX

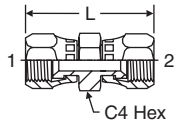
Male Connector – BSPT  
37° Flare / BSPT



TUBE FITTING PART #	END SIZE		C HEX (mm)	L (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 BSPT			-S	-SS	-B
	4F3MX	6			1/8-28	13	31.0
4-4F3MX	6	1/4-19	14	36.0	4.5		
5F3MX	8	1/8-28	14	31.0	4.5		
5-4F3MX	8	1/4-19	14	36.0	4.5		
6F3MX	10	1/4-19	16	36.3	4.5		
6-6F3MX	10	3/8-19	19	36.4	4.5		
6-8F3MX	10	1/2-14	22	42.9	4.5		
8-4F3MX	12	1/4-19	19	38.9	4.5		
8F3MX	12	3/8-19	19	38.9	4.5		
8-8F3MX	12	1/2-14	22	45.5	4.5		
10-6F3MX	14,15,16	3/8-19	24	43.2	4.5		
10F3MX	14,15,16	1/2-14	24	48.0	4.5		
10-12F3MX	14,15,16	3/4-14	27	49.5	2.3		
12-8F3MX	18,20	1/2-14	27	52.3	4.5		
12F3MX	18,20	3/4-14	27	52.3	2.3		
12-16F3MX	18,20	1-11	36	57.1	2.3		
16-12F3MX	25	3/4-14	36	53.6	2.3		
16F3MX	25	1-11	36	58.4	2.3		
20-16F3MX	30,32	1-11	46	61.4	2.3		
20F3MX	30,32	1 1/4-11	46	62.2	2.3		
24F3MX	38	1 1/2-11	50	68.1	2.3		

0606 (HX6)

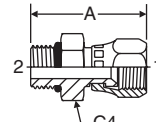
Swivel Nut Union  
37° Swivel / 37° Swivel



TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C4 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)	HEX (in.)			-S	-SS	-B
		4 HX6	0606-4-4			1/4	9/16	1.48
6 HX6	0606-6-6	3/8	11/16	1.75	5.0			
8 HX6	0606-8-8	1/2	7/8	2.02	5.0			
10 HX6	0606-10-10	5/8	1	2.24	5.0			
12 HX6	0606-12-12	3/4	1 1/4	2.43	5.0			
16 HX6	0606-16-16	1	1 1/2	2.68	3.6			

0506 (F65OX)

Swivel Straight Thread Connector  
37° Swivel / SAE-ORB



TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		A (in.)	C4 HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 UN/UNF-2B			-S	-SS	-B
		4 F65OX	0506-4-4			1/4	7/16-20	1.31
4-6 F65OX	0506-6-4	1/4	9/16-18	1.37	11/16	6.0		
5 F65OX	0506-5-5	5/16	1/2-20	1.35	0.625	6.0		
6 F65OX	0506-6-6	3/8	9/16-18	1.43	11/16	6.0	6.0	
6-4 F65OX	0506-4-6	3/8	9/16-18	1.37	9/16	6.0		
6-8 F65OX	0506-8-6	3/8	3/4-16	1.50	7/8	5.0	6.0	
8 F65OX	0506-8-8	1/2	3/4-16	1.61	7/8	5.0	6.0	
8-6 F65OX	0506-6-8	1/2	9/16-18	1.54	13/16	5.0		
8-10 F65OX	0506-10-8	1/2	3/4-16	1.88	7/8	5.0		
10 F65OX	0506-10-10	5/8	7/8-14	1.84	1 1/16	5.0	6.0	
10-8 F65OX	0506-8-10	5/8	3/4-16	1.67	1	5.0		
10-12 F65OX	0506-12-10	5/8	1 1/16-12	1.92	1 1/4	5.0		
12 F65OX	0506-12-12	3/4	1 1/16-12	2.07	1 1/4	5.0	6.0	
12-10 F65OX	0506-10-12	3/4	7/8-14	2.10	1 1/4	5.0		
12-16 F65OX	0506-16-12	3/4	1 1/16-12	2.24	1 1/2	3.6		
16 F65OX	0506-16-16	1	1 5/16-12	2.28	1 1/2	3.6	4.3	
16-12 F65OX	0506-12-16	1	1 5/16-12	2.14	1 1/2	4.5		
20 F65OX	0506-20-20	1 1/4	1 5/8-12	2.49	2	3.6	4.3	

Hose

A

Fittings  
21 Series

B

Parkrimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

E

Accessories

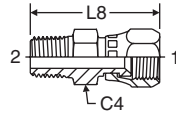
F

Appendices

G

### 0106 (F6X)

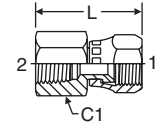
Swivel Connector  
37° Swivel / NPTF



TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C4 (in.)	L8 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF			-S	-SS	-B
4 F6X	0106-2-4	1/4	1/8-27	9/16	1.13	6.0	6.0	
4-4 F6X	0106-4-4	1/4	1/4-18	9/16	1.46	6.0	6.0	
5-4 F6X	0106-4-5	5/16	1/4-18	5/8	1.57	6.0	6.0	
6 F6X	0106-4-6	3/8	1/4-18	11/16	1.59	5.0	5.0	
6-6 F6X	0106-6-6	3/8	3/8-18	3/4	1.59	5.0	5.0	
8 F6X	0106-6-8	1/2	3/8-18	7/8	1.69	5.0	5.0	
8-8 F6X	0106-8-8	1/2	1/2-14	7/8	1.92	5.0	5.0	
10 F6X	0106-8-10	5/8	1/2-14	1	2.05	5.0	5.0	
10-6 F6X	0106-6-10	5/8	3/8-18	1	1.87	5.0	5.0	
12 F6X	0106-12-12	3/4	3/4-14	1 1/4	2.15	5.0	5.0	
12-8 F6X	0106-8-12	3/4	1/2-14	1 1/4	2.15	5.0	5.0	
16 F6X	0106-16-16	1	1-11 1/2	1 1/2	2.50	3.6	3.6	
16-12 F6X	0106-12-16	1	3/4-14	1 1/2	2.33	3.6	3.6	
20 F6X	0106-20-20	1 1/4	1 1/4-11 1/2	2	2.76	3.0	3.0	
24 F6X	0106-24-24	1 1/2	1 1/2-11 1/2	2 1/4	3.05	2.5	2.5	
32 F6X	0106-32-32	2	2-11 1/2	2 5/8	3.38	2.0	2.0	

### 0206 (G6X)

Swivel Nut Female Connector  
37° Swivel / NPTF



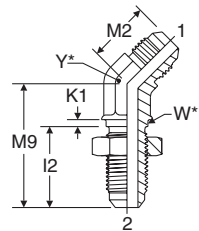
TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C1 (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF			-S	-SS	-B
4 G6X	0206-2-4	1/4	1/8-27	9/16	1.27	6.0	6.0	
4-4 G6X	0206-4-4	1/4	1/4-18	3/4	1.43	6.0	6.0	
6 G6X	0206-4-6	3/8	1/4-18	3/4	1.44	5.0	5.0	
6-6 G6X	0206-6-6	3/8	3/8-18	7/8	1.54	5.0	5.0	
6-8 G6X	0206-8-6	3/8	1/2-14	1 1/8	1.80	5.0	5.0	
8 G6X	0206-6-8	1/2	3/8-18	7/8	1.69	5.0	5.0	
8-8 G6X	0206-8-8	1/2	1/2-14	1 1/8	1.94	5.0	5.0	
10 G6X	0206-8-10	5/8	1/2-14	1 1/8	1.98	5.0	5.0	
12 G6X	0206-12-12	3/4	3/4-14	1 3/8	2.08	4.0	4.0	
12-8 G6X	0206-8-12	3/4	1/2-14	1 1/4	2.07	5.0	5.0	
16 G6X	0206-16-16	1	1-11 1/2	1 5/8	2.45	3.0	3.0	
20 G6X	0206-20-20	1 1/4	1 1/4-11 1/2	2	2.81	2.5	2.5	
24 G6X	0206-24-24	1 1/2	1 1/2-11 1/2	2 3/8	3.01	2.0	2.0	
32 G6X	0206-32-32	2	2-11 1/2	2 7/8	3.40	1.5	1.5	

### 3353 (WNTX)

45° Bulkhead Union Elbow  
37° Flare / 37° Flare

SAE 070801

WNTX-WLN – Body with locknut  
(See page E-29 for WLN)



Y\* – Across wrench flats.

W\*\* – Bulkhead pilot dia. recommended clearance hole +.015 over W dia.

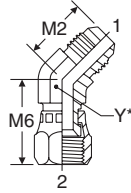
TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		I2 (in.)	K1 (in.)	M2 (in.)	M9 (in.)	W DIA. (in.)	MAX. BULKHEAD WALL THICKNESS (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)	-S								-SS	-B	
4 WNTX	3353-4-4N	1/4	1.02	0.09	0.72	1.53	0.44	0.21	7/16	7.5	7.7		
5 WNTX	3353-5-5N	5/16	1.02	0.09	0.78	1.66	0.56	0.21	9/16	7.5	7.5		
6 WNTX	3353-6-6N	3/8	1.09	0.09	0.83	1.67	0.56	0.28	9/16	7.5	6.0		
8 WNTX	3353-8-8N	1/2	1.25	0.13	0.98	1.94	0.75	0.33	3/4	6.0	6.0		
10 WNTX	3353-10-10N	5/8	1.39	0.13	1.11	2.17	0.82	0.32	7/8	5.0	5.0		
12 WNTX	3353-12-12N	3/4	1.56	0.13	1.28	2.44	1.06	0.34	1 1/16	5.0	5.0		
16 WNTX	3353-16-16N	1	1.56	0.13	1.47	2.56	1.31	0.29	1 5/16	4.5	3.5		
20 WNTX	3353-20-20N	1 1/4	1.61	0.13	1.59	2.65	1.63	0.29	1 5/8	4.0	4.0		



Hose  
**A**

**3703 (V6X)**  
45° Swivel Nut Elbow  
37° Flare / 37° Swivel

SAE 070321



Y\* – Across wrench flats

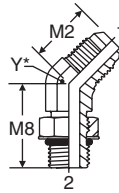
Fittings  
21 Series  
**B**

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M2 (in.)	M6 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)						-S	-SS
4 V6X	3703-4-4	1/4	0.72	0.94	7/16	7.5	7.7		
5 V6X	3703-5-5	5/16	0.77	1.00	9/16	6.0			
6 V6X	3703-6-6	3/8	0.83	1.12	9/16	5.0	6.0		
8 V6X	3703-8-8	1/2	0.98	1.28	3/4	5.0	6.0		
10 V6X	3703-10-10	5/8	1.11	1.44	7/8	5.0	5.0		
12 V6X	3703-12-12	3/4	1.28	1.50	1 1/16	5.0	5.0		
14 V6X	3703-14-14	7/8	1.39	1.62	1 3/16	4.0			
16 V6X	3703-16-16	1	1.47	1.75	1 5/16	3.6	2.5		
20 V6X	3703-20-20	1 1/4	1.59	2.03	1 5/8	3.6	2.5		
24 V6X	3703-24-24	1 1/2	1.78	2.27	1 7/8	2.5			
32 V6X	3703-32-32	2	2.22	2.76	2 1/2	1.5	1.5		

Parkrimp  
Crimping  
Equipment  
**C**

**3503 (V5OX)**  
45° Straight Thread Elbow  
37° Flare / SAE-ORB

SAE 070320



Y\* – Across wrench flats

Hose  
Assembly  
Equipment  
**D**

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M2 (in.)	M8 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)			
		1 (in.)	2 UN/UNF-2A							-S
4 V5OX	3503-4-4	1/4	7/16-20	0.72	1.05	7/16	6.0	6.0		
4-6 V5OX	3503-6-4	1/4	9/16-18	0.82	1.14	9/16	6.0			
5 V5OX	3503-5-5	5/16	1/2-20	0.77	1.05	9/16	6.0			
6 V5OX	3503-6-6	3/8	9/16-18	0.83	1.14	9/16	6.0	5.4		
6-4 V5OX	3503-4-6	3/8	7/16-20	0.83	1.08	9/16	6.0			
6-8 V5OX	3503-8-6	3/8	3/4-16	0.86	1.30	3/4	6.0			
8 V5OX	3503-8-8	1/2	3/4-16	0.98	1.30	3/4	6.0	5.4		
8-6 V5OX	3503-6-8	1/2	9/16-18	0.98	1.09	3/4	6.0	5.4		
8-10 V5OX	3503-10-8	1/2	7/8-14	1.00	1.52	7/8	5.0	5.4		
8-12 V5OX	3503-12-8	1/2	1 1/16-12	1.06	1.66	1 1/16	5.0			
10 V5OX	3503-10-10	5/8	7/8-14	1.11	1.52	7/8	5.0	5.4		
10-8 V5OX	3503-8-10	5/8	3/4-16	1.11	1.38	7/8	5.0			
10-12 V5OX	3503-12-10	5/8	1 1/16-12	1.16	1.73	1 1/16	5.0			
12 V5OX	3503-12-12	3/4	1 1/16-12	1.28	1.73	1 1/16	5.0	5.4		
12-10 V5OX	3503-10-12	3/4	7/8-14	1.28	1.58	1 1/16	5.0	5.4		
12-16 V5OX	3503-16-12	3/4	1 5/16-12	1.42	1.86	1 5/16	4.0			
14 V5OX	3503-14-14	7/8	1 3/16-12	1.45	1.86	1 5/16	5.0			
16 V5OX	3503-16-16	1	1 5/16-12	1.47	1.86	1 5/16	4.0	3.0		
16-12 V5OX	3503-12-16	1	1 1/16-12	1.47	1.86	1 5/16	4.0			
16-20 V5OX	3503-20-16	1	1 5/8-12	1.55	1.91	1 5/8	4.0			
20 V5OX	3503-20-20	1 1/4	1 5/8-12	1.59	1.91	1 5/8	4.0	2.5		
20-16 V5OX	3503-16-20	1 1/4	1 5/16-12	1.59	1.91	1 5/8	4.0			
24 V5OX	3503-24-24	1 1/2	1 7/8-12	1.78	1.91	1 7/8	3.0			
32 V5OX	3503-32-32	2	2 1/2-12	2.22	1.86	2 1/2	2.0			

Adapters  
**E**

Accessories  
**F**

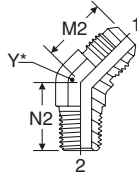
Appendices  
**G**



# 3103 (VTX)

45° Male Elbow  
37° Flare / NPTF

SAE 070302



Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M2 (in.)	N2 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF				-S	-SS	-B
2 VTX	3103-2-2	1/8	1/8-27	0.69	0.53	7/16	6.0		
3 VTX	3103-2-3	3/16	1/8-27	0.69	0.53	7/16	6.0		
4 VTX	3103-2-4	1/4	1/8-27	0.72	0.64	7/16	6.0	6.0	3.3
4-4 VTX	3103-4-4	1/4	1/4-18	0.82	0.86	9/16	6.0	6.0	3.3
4-6 VTX	3103-6-4	1/4	3/8-18	0.92	0.95	3/4	6.0		
5 VTX	3103-2-5	5/16	1/8-27	0.77	0.64	9/16	6.0	6.0	3.3
5-4 VTX	3103-4-5	5/16	1/4-18	0.82	0.86	9/16	6.0	6.0	
6 VTX	3103-4-6	3/8	1/4-18	0.83	0.86	9/16	6.0	6.0	3.3
6-2 VTX	3103-2-6	3/8	1/8-27	0.83	0.67	9/16	6.0	6.0	3.3
6-6 VTX	3103-6-6	3/8	3/8-18	0.87	0.95	3/4	6.0	6.0	3.3
6-8 VTX	3103-8-6	3/8	1/2-14	1.06	1.17	7/8	6.0	6.0	
8 VTX	3103-6-8	1/2	3/8-18	0.98	0.95	3/4	6.0	6.0	3.3
8-4 VTX	3103-4-8	1/2	1/4-18	0.98	0.95	3/4	6.0	6.0	
8-8 VTX	3103-8-8	1/2	1/2-14	0.99	1.17	7/8	6.0	6.0	3.3
8-12 VTX	3103-12-8	1/2	3/4-14	1.04	1.20	1 1/16	4.0	4.0	
10 VTX	3103-8-10	5/8	1/2-14	1.11	1.17	7/8	5.0	5.0	3.3
10-6 VTX	3103-6-10	5/8	3/8-18	1.11	0.98	7/8	5.0	5.0	
10-12 VTX	3103-12-10	5/8	3/4-14	1.28	1.20	1 1/16	4.0		
12 VTX	3103-12-12	3/4	3/4-14	1.28	1.20	1 1/16	4.0	4.0	2.6
12-8 VTX	3103-8-12	3/4	1/2-14	1.28	1.20	1 1/16	5.0	5.0	
12-16 VTX	3103-16-12	3/4	1-11 1/2	1.42	1.48	1 5/16	3.0		
14 VTX	3103-12-14	7/8	3/4-14	1.39	1.27	1 5/16	4.0		
16 VTX	3103-16-16	1	1-11 1/2	1.47	1.48	1 5/16	3.0	3.0	2.0
16-12 VTX	3103-12-16	1	3/4-14	1.47	1.29	1 5/16	4.0	4.0	
16-20 VTX	3103-20-16	1	1 1/4-11 1/2	1.59	1.67	1 5/8	2.5		
20 VTX	3103-20-20	1 1/4	1 1/4-11 1/2	1.59	1.67	1 5/8	2.5	2.5	
20-16 VTX	3103-16-20	1 1/4	1-11 1/2	1.59	1.63	1 5/8	3.0		
24 VTX	3103-24-24	1 1/2	1 1/2-11 1/2	1.78	1.77	1 7/8	2.5	2.5	
32 VTX	3103-32-32	2	2-11 1/2	2.22	2.11	2 1/2	2.0		

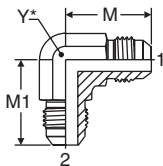
A	Hose
B	Fittings 21 Series
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices



### 2303 (ETX)

Union Elbow  
37° Flare / 37° Flare

SAE 070201

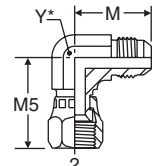


Y\* – Across wrench flats

### 3903 (C6X)

Swivel Nut Elbow  
37° Flare / 37° Swivel

SAE 070221



Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	M1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 (in.)				-S	-SS	-B
2 ETX	2303-2-2	1/8	1/8	0.78	0.78	7/16	7.5	7.7	
3 ETX	2303-3-3	3/16	3/16	0.83	0.83	7/16		7.7	
4 ETX	2303-4-4	1/4	1/4	0.89	0.89	7/16	7.5	7.7	3.3
5 ETX	2303-5-5	5/16	5/16	0.95	0.95	9/16	6.0	6.0	3.3
6 ETX	2303-6-6	3/8	3/8	1.06	1.06	9/16	6.0	6.0	3.3
6-4 ETX	2303-4-6	3/8	1/4	1.06	1.05	9/16	6.0		
8 ETX	2303-8-8	1/2	1/2	1.25	1.25	3/4	6.0	6.0	3.3
8-6 ETX	2303-6-8	1/2	3/8	1.25	1.14	3/4	6.0		
10 ETX	2303-10-10	5/8	5/8	1.45	1.45	7/8	5.0	5.0	3.3
10-8 ETX	2303-8-10	5/8	1/2	1.45	1.33	7/8	5.0		
12 ETX	2303-12-12	3/4	3/4	1.66	1.66	1 1/16	5.0	5.0	3.3
12-8 ETX	2303-8-12	3/4	1/2	1.66	1.42	1 1/16			
12-10 ETX	2303-10-12	3/4	5/8	1.66	1.54	1 1/16		5.0	
14 ETX	2303-14-14	7/8	7/8	1.73	1.73	1 3/16	5.0		
16 ETX	2303-16-16	1	1	1.81	1.81	1 5/16	4.0	3.5	2.3
16-12 ETX	2303-12-16	1	3/4	1.81	1.77	1 5/16			
20 ETX	2303-20-20	1 1/4	1 1/4	2.06	2.06	1 5/8	4.0	3.0	
24 ETX	2303-24-24	1 1/2	1 1/2	2.33	2.33	1 7/8	3.0	2.0	
32 ETX	2303-32-32	2	2	3.06	3.06	2 1/2	2.0	1.5	

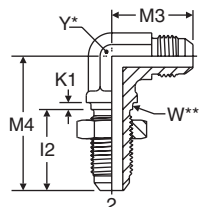
TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	M5 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)						-S	-SS
3 C6X	3903-3-3	3/16		0.83	1.00	7/16	7.5	7.7	
4 C6X	3903-4-4	1/4		0.89	1.00	7/16	7.5	7.7	
5 C6X	3903-5-5	5/16		0.95	1.06	9/16	6.0		
6 C6X	3903-6-6	3/8		1.06	1.25	9/16	5.0	6.0	
8 C6X	3903-8-8	1/2		1.25	1.38	3/4	5.0	6.0	
10 C6X	3903-10-10	5/8		1.45	1.62	7/8	5.0	5.0	
12 C6X	3903-12-12	3/4		1.66	1.75	1 1/16	5.0	5.0	
14 C6X	3903-14-14	7/8		1.80	1.78	1 5/16	4.0		
16 C6X	3903-16-16	1		1.81	2.00	1 5/16	3.6	2.5	
20 C6X	3903-20-20	1 1/4		2.06	2.31	1 5/8	3.6	2.5	
24 C6X	3903-24-24	1 1/2		2.33	2.59	1 7/8	2.5	2.0	
32 C6X	3903-32-32	2		3.06	3.51	2 1/2	1.5	1.5	

### 2353 (WETX)

Bulkhead Union Elbow  
37° Flare / 37° Flare

SAE 070701

WETX-WLN – Body with locknut  
(See page E-29 for WLN)



Y\* – Across wrench flats.

W\*\* – Bulkhead pilot dia. recommended clearance hole +.015 over W dia.

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		I 2 (in.)	K1 (in.)	M3 (in.)	M4 (in.)	W DIA. (in.)	MAX. BULKHEAD WALL THICKNESS (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)										-S	-SS
3 WETX	2353-3-3N	3/16		0.92	0.09	0.94	1.50	0.38	0.21	7/16	7.5	7.7	
4 WETX	2353-4-4N	1/4		1.02	0.09	0.97	1.59	0.44	0.21	7/16	7.5	7.7	3.3
5 WETX	2353-5-5N	5/16		1.02	0.09	1.06	1.72	0.50	0.21	9/16	6.0		
6 WETX	2353-6-6N	3/8		1.09	0.09	1.09	1.81	0.56	0.28	9/16	6.0	6.0	3.3
8 WETX	2353-8-8N	1/2		1.25	0.13	1.36	2.11	0.75	0.33	3/4	6.0	6.0	3.3
10 WETX	2353-10-10N	5/8		1.39	0.13	1.56	2.39	0.88	0.32	7/8	5.0	5.0	
12 WETX	2353-12-12N	3/4		1.56	0.13	1.78	2.67	1.06	0.34	1 1/16	5.0	5.0	
14 WETX	2353-14-14N	7/8		1.56	0.13	1.92	2.80	1.19	0.31	1 5/8	5.0		
16 WETX	2353-16-16N	1		1.56	0.13	1.94	2.80	1.31	0.29	1 5/8	4.0	3.5	
20 WETX	2353-20-20N	1 1/4		1.61	0.13	2.17	3.13	1.63	0.29	1 5/8	4.0	3.0	

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

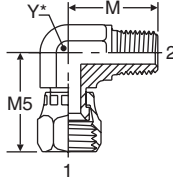
Accessories  
F

Appendices  
G



## 2106 (X6EF)

Swivel Elbow Connector  
37° Swivel / NPTF

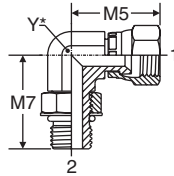


Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	M5 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF				-S	-SS	-B
4 X6EF	2106-2-4	1/4	1/8-27	0.78	1.01	7/16	6.0	6.0	
4-4 X6EF	2106-4-4	1/4	1/4-18	1.09	1.13	9/16	6.0	6.0	
6 X6EF	2106-4-6	3/8	1/4-18	1.09	1.27	9/16	5.0	5.0	
6-6 X6EF	2106-6-6	3/8	3/8-18	1.22	1.27	3/4	5.0	5.0	
8 X6EF	2106-6-8	1/2	3/8-18	1.22	1.34	3/4	5.0	5.0	
8-8 X6EF	2106-8-8	1/2	1/2-14	1.47	1.48	7/8	5.0	5.0	
10 X6EF	2106-8-10	5/8	1/2-14	1.47	1.62	7/8	5.0		
12 X6EF	2106-12-12	3/4	3/4-14	1.59	1.75	1 1/16	4.0	4.0	
16 X6EF	2106-16-16	1	1-11	1.97	2.01	1 5/16	3.0	3.0	

## 2506 (AOEX6)

Swivel Elbow Straight Thread Connector  
SAE-ORB / 37° Swivel



Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M5 (in.)	M7 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 UN/UNF-2A				-S	-SS	-B
4 AOEX6	2506-4-4	1/4	7/16-20	0.94	1.03	7/16	6.0		
6 AOEX6	2506-6-6	3/8	9/16-18	1.27	1.25	9/16	5.0		
8 AOEX6	2506-8-8	1/2	3/4-16	1.34	1.45	3/4	5.0		
10 AOEX6	2506-10-10	5/8	7/8-14	1.62	1.70	7/8	5.0		
12 AOEX6	2506-12-12	3/4	1 1/16-12	1.75	1.94	1 1/16	5.0		
16 AOEX6	2506-16-16	1	1 5/16-12	2.01	2.05	1 5/16	3.6		

Hose

A

Fittings  
21 Series

B

Parkrimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

E

Accessories

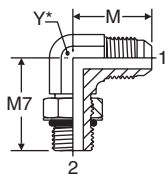
F

Appendices

G

2503 (C5OX)  
Straight Thread Elbow  
37° Flare / SAE-ORB

SAE 070220



Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	M7 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 UN/UNF-2A				-S	-SS	-B
		2 C5OX	2503-2-2				1/8	5/16-24	0.78
3 C5OX	2503-3-3	3/16	3/8-24	0.83	0.94	7/16	5.0	6.0	
4 C5OX	2503-4-4	1/4	7/16-20	0.89	1.03	7/16	6.0	6.0	
4-2 C5OX	2503-2-4	1/4	5/16-24	0.89	0.92	7/16	5.0		
4-6 C5OX	2503-6-4	1/4	9/16-18	1.05	1.25	9/16	6.0	5.4	
4-8 C5OX	2503-8-4	1/4	3/4-16	1.13	1.45	3/4	6.0	5.4	
5 C5OX	2503-5-5	5/16	1/2-20	0.95	1.13	9/16	6.0	5.4	
5-4 C5OX	2503-4-5	5/16	7/16-18	0.95	1.13	9/16	6.0		
5-6 C5OX	2503-6-5	5/16	9/16-18	1.06	1.25	9/16	6.0		
6 C5OX	2503-6-6	3/8	9/16-18	1.06	1.25	9/16	6.0	5.4	
6-4 C5OX	2503-4-6	3/8	7/16-20	1.06	1.19	9/16	6.0	5.4	
6-5 C5OX	2503-5-6	3/8	1/2-20	1.06	1.19	9/16	6.0		
6-8 C5OX	2503-8-6	3/8	3/4-16	1.14	1.45	3/4	6.0	5.4	
6-10 C5OX	2503-10-6	3/8	7/8-14	1.23	1.70	7/8	6.0		
8 C5OX	2503-8-8	1/2	3/4-16	1.25	1.45	3/4	6.0	5.4	
8-4 C5OX	2503-4-8	1/2	7/16-20	1.25	1.26	3/4	6.0	5.4	
8-6 C5OX	2503-6-8	1/2	9/16-18	1.25	1.36	3/4	6.0	5.4	
8-10 C5OX	2503-10-8	1/2	7/8-14	1.34	1.70	7/8	5.0	5.4	
8-12 C5OX	2503-12-8	1/2	1 1/16-12	1.42	1.94	1 1/16	5.0	5.4	
8-16 C5OX	2503-16-8	1/2	1 5/16-12	1.52	2.05	1 5/16	4.0	3.0	
10 C5OX	2503-10-10	5/8	7/8-14	1.45	1.70	7/8	5.0	5.4	
10-6 C5OX	2503-6-10	5/8	9/16-18	1.45	1.41	7/8	5.0		
10-8 C5OX	2503-8-10	5/8	3/4-16	1.45	1.55	7/8	5.0	5.4	
10-12 C5OX	2503-12-10	5/8	1 1/16-12	1.53	1.94	1 1/16	5.0		
10-16 C5OX	2503-16-10	5/8	1 5/16-12	1.64	2.05	1 5/16	4.0		
12 C5OX	2503-12-12	3/4	1 1/16-12	1.66	1.94	1 1/16	5.0	5.4	
12-8 C5OX	2503-8-12	3/4	3/4-16	1.66	1.63	1 1/16	5.0	5.4	
12-10 C5OX	2503-10-12	3/4	7/8-14	1.66	1.78	1 1/16	5.0	5.4	
12-14 C5OX	2503-14-12	3/4	1 3/16-12	1.77	2.00	1 5/16	5.0		
12-16 C5OX	2503-16-12	3/4	1 5/16-12	1.81	2.05	1 5/16	4.0	3.0	
12-20 C5OX	2503-20-12	3/4	1 5/8-12	1.97	2.25	1 5/8	4.0		
14 C5OX	2503-14-14	7/8	1 3/16-12	1.73	2.00	1 5/16	5.0		
16 C5OX	2503-16-16	1	1 5/16-12	1.81	2.05	1 5/16	4.0	3.0	
16-12 C5OX	2503-12-16	1	1 1/16-12	1.81	2.05	1 5/16	4.0	3.0	
16-14 C5OX	2503-14-16	1	1 3/16-12	1.81	2.07	1 5/16	4.0		
16-20 C5OX	2503-20-16	1	1 5/8-12	2.01	2.25	1 5/8	4.0	2.5	
16-24 C5OX	2503-24-16	1	1 7/8-12	2.16	2.39	1 7/8	3.0		
20 C5OX	2503-20-20	1 1/4	1 5/8-12	2.06	2.25	1 5/8	4.0	2.5	
20-16 C5OX	2503-16-20	1 1/4	1 5/16-12	2.06	2.25	1 5/8	4.0	2.5	
20-24 C5OX	2503-24-20	1 1/4	1 7/8-12	2.20	2.39	1 7/8	3.0		
24 C5OX	2503-24-24	1 1/2	1 7/8-12	2.33	2.39	1 7/8	3.0	2.0	
24-20 C5OX	2503-20-24	1 1/2	1 5/8-12	2.33	2.39	1 7/8	3.0	2.0	
32 C5OX	2503-32-32	2	2 1/2-12	3.06	2.89	2 1/2	2.0	1.5	
32-24 C5OX	2503-24-32	2	1 7/8-12	3.06	2.89	2 1/2		1.5	

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

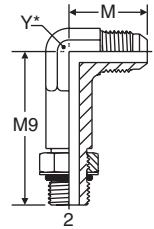


### 5503 (CC5OX)

Long Straight Thread Elbow  
37° Flare / SAE-ORB

SAE 071520

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	M9 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF				-S	-SS	-B
4 CC5OX	5503-4-4	1/4	7/16-20	0.89	1.73	9/16	6.0		
6 CC5OX	5503-6-6	3/8	9/16-18	1.06	2.08	9/16	6.0		
8 CC5OX	5503-8-8	1/2	3/4-16	1.25	2.50	7/8	6.0		
10 CC5OX	5503-10-10	5/8	7/8-14	1.45	2.89	7/8	5.0		
12 CC5OX	5503-12-12	3/4	1 1/16-12	1.66	3.34	1 1/16	5.0		
16 CC5OX	5503-16-16	1	1 5/16-12	1.81	3.72	1 5/16	4.0		



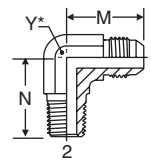
Y\* – Across wrench flats

### 2103 (CTX)

Male Elbow  
37° Flare / NPTF

SAE 070202

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF				-S	-SS	-B
2 CTX	2103-2-2	1/8	1/8-27	0.77	0.72	5/16	6.0	6.0	3.3
3 CTX	2103-2-3	3/16	1/8-27	0.83	0.72	3/8	6.0	6.0	3.3
4 CTX	2103-2-4	1/4	1/8-27	0.89	0.78	7/16	6.0	6.0	3.3
4-4 CTX	2103-4-4	1/4	1/4-18	1.05	1.09	9/16	6.0	6.0	3.3
4-6 CTX	2103-6-4	1/4	3/8-18	1.13	1.22	3/4	6.0	6.0	
4-8 CTX	2103-8-4	1/4	1/2-14	1.23	1.44	7/8	6.0	6.0	
5 CTX	2103-2-5	5/16	1/8-27	0.95	0.78	9/16	6.0	6.0	3.3
5-4 CTX	2103-4-5	5/16	1/4-18	1.05	1.09	9/16	6.0	6.0	3.3
5-6 CTX	2103-6-5	5/16	3/8-18	1.13	1.22	3/4	6.0	6.0	
6 CTX	2103-4-6	3/8	1/4-18	1.06	1.09	9/16	6.0	6.0	3.3
6-2 CTX	2103-2-6	3/8	1/8-27	1.06	0.90	9/16	6.0	6.0	3.3
6-6 CTX	2103-6-6	3/8	3/8-18	1.14	1.22	3/4	6.0	6.0	3.3
6-8 CTX	2103-8-6	3/8	1/2-14	1.22	1.47	7/8	6.0	6.0	3.3
6-12 CTX	2103-12-6	3/8	3/4-14	1.31	1.59	1 1/16	4.0	4.0	
8 CTX	2103-6-8	1/2	3/8-18	1.25	1.22	3/4	6.0	6.0	3.3
8-4 CTX	2103-4-8	1/2	1/4-18	1.25	1.22	3/4	6.0	6.0	3.3
8-8 CTX	2103-8-8	1/2	1/2-14	1.33	1.47	7/8	6.0	6.0	3.3
8-12 CTX	2103-12-8	1/2	3/4-14	1.42	1.59	1 1/16	4.0	4.0	2.6
8-16 CTX	2103-16-8	1/2	1-11 1/2	1.52	1.97	1 5/16	3.0	3.0	
10 CTX	2103-8-10	5/8	1/2-14	1.45	1.47	7/8	5.0	5.0	3.3
10-6 CTX	2103-6-10	5/8	3/8-18	1.45	1.28	7/8	5.0	5.0	3.3
10-12 CTX	2103-12-10	5/8	3/4-14	1.53	1.59	1 1/16	4.0	4.0	
10-16 CTX	2103-16-10	5/8	1-11 1/2	1.64	1.97	1 5/16	3.0		
12 CTX	2103-12-12	3/4	3/4-14	1.66	1.59	1 1/16	4.0	4.0	2.6
12-6 CTX	2103-6-12	3/4	3/8-18	1.66	1.41	1 1/16	5.0	5.0	2.9
12-8 CTX	2103-8-12	3/4	1/2-14	1.66	1.59	1 1/16	5.0	5.0	2.9
12-16 CTX	2103-16-12	3/4	1-11 1/2	1.76	1.97	1 5/16	3.0	3.0	
14 CTX	2103-12-14	7/8	3/4-14	1.80	1.69	1 5/16	4.0		2.3
16 CTX	2103-16-16	1	1-11 1/2	1.81	1.97	1 5/16	3.0	3.0	2.0
16-8 CTX	2103-8-16	1	1/2-14	1.81	1.66	1 5/16	4.0	4.0	2.3
16-12 CTX	2103-12-16	1	3/4-14	1.81	1.78	1 5/16	4.0	4.0	2.3
16-20 CTX	2103-20-16	1	1 1/4-11 1/2	2.13	2.38	1 5/8	2.5	2.5	
20 CTX	2103-20-20	1 1/4	1 1/4-11 1/2	2.06	2.38	1 5/8	2.5	2.5	1.6
20-16 CTX	2103-16-20	1 1/4	1-11 1/2	2.06	2.06	1 5/8	3.0	3.0	
20-24 CTX	2103-24-20	1 1/4	1 1/2-11 1/2	2.20	2.64	1 7/8	2.5		
24 CTX	2103-24-24	1 1/2	1 1/2-11 1/2	2.33	2.64	1 7/8	2.5	2.5	
24-20 CTX	2103-20-24	1 1/2	1 1/4-11 1/2	2.33	2.25	1 7/8	2.5	2.5	
24-32 CTX	2103-32-24	1 1/2	2-11 1/2	2.81	3.00	2 1/2	2.0		
32 CTX	2103-32-32	2	2-11 1/2	3.06	3.00	2 1/2	2.0	2.0	
32-24 CTX	2103-24-32	2	1 1/2-11 1/2	3.06	2.97	2 1/2	2.0		
40 CTX	2103-40-40	2 1/2	2 1/2-8	2.86	3.57	3 1/4			



Y\* – Across wrench flats

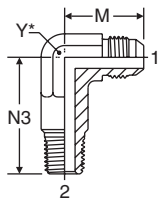
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



### 5603 (CCTX)

Long Male Elbow  
37° Flare / NPTF

SAE 071502



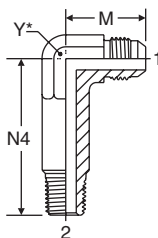
Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	N3 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF				-S	-SS	-B
		4 CCTX	5603-2-4				1/4	1/8-27	0.89
4-4 CCTX	5603-4-4	1/4	1/4-18	1.05	1.44	9/16	6.0	6.0	
5 CCTX	5603-2-5	5/16	1/8-27	0.95	1.17	9/16	6.0		
6 CCTX	5603-4-6	3/8	1/4-18	1.06	1.56	9/16	6.0	6.0	3.3
6-6 CCTX	5603-6-6	3/8	3/8-18	1.14	1.81	3/4	6.0	6.0	
8 CCTX	5603-6-8	1/2	3/8-18	1.25	1.78	3/4	6.0		
8-8 CCTX	5603-8-8	1/2	1/2-14	1.34	2.16	7/8	6.0	6.0	
8-12 CCTX	5603-8-12	1/2	3/4-14	1.42	2.44	1 1/16	4.0		
10 CCTX	5603-8-10	5/8	1/2-14	1.45	2.16	7/8	5.0	5.0	
12 CCTX	5603-12-12	3/4	3/4-14	1.66	2.41	1 1/16	4.0	4.0	
14 CCTX	5603-14-14	7/8	3/4-14	1.80	2.59	1 5/16			
16 CCTX	5603-16-16	1	1-11 1/2	1.81	2.97	1 5/16	3.0	3.0	
20 CCTX	5603-20-20	1 1/4	1 1/4-11 1/2	2.06	3.66	1 5/8	2.5	2.5	

### 5703 (CCCTX)

Extra Long Male Elbow  
37° Flare / NPTF

SAE 071602



Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	N4 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF				-S	-SS	-B
		4 CCCTX	5703-2-4				1/4	1/8-27	0.89
4-4 CCCTX	5703-4-4	1/4	1/4-18	1.05	2.03	9/16	6.0		
5 CCCTX	5703-2-5	5/16	1/8-27	0.97	1.63	9/16	6.0		
6 CCCTX	5703-4-6	3/8	1/4-18	1.06	2.07	9/16	6.0		3.3
6-6 CCCTX	5703-6-6	3/8	3/8-18	1.14	2.34	3/4	6.0		
8 CCCTX	5703-6-8	1/2	3/8-18	1.25	2.34	3/4	6.0		
8-8 CCTX	5703-8-8	1/2	1/2-14	1.34	2.84	7/8	6.0		
10 CCCTX	5703-8-10	5/8	1/2-14	1.45	2.84	7/8	5.0		
12 CCCTX	5703-12-12	3/4	3/4-14	1.66	3.22	1 1/16	4.0		
16 CCCTX	5703-16-16	1	1-11 1/2	1.81	3.97	1 5/16	3.0		
20 CCCTX	5703-20-20	1 1/4	1 1/4-11 1/2	2.06	4.94	1 5/8			

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

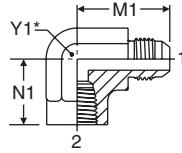
Accessories  
F

Appendices  
G

# 2203 (DTX)

Femle Elbow  
37° Flare / NPTF

SAE 070203

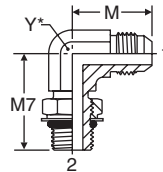


Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M1 (in.)	N1 (in.)	Y1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 NPTF				-S	-SS	-B
		4 DTX	2203-2-4				1/4	1/8-27	1.08
4-4 DTX	2203-4-4	1/4	1/4-18	1.22	0.88	3/4	5.0	5.0	3.3
5 DTX	2203-2-5	5/16	1/8-27	1.08	0.66	9/16	5.0		3.3
5-4 DTX	2203-4-5	5/16	1/4-18	1.13	0.88	3/4	5.0	5.0	
6 DTX	2203-4-6	3/8	1/4-18	1.23	0.88	3/4	5.0	5.0	3.3
6-2 DTX	2203-2-6	3/8	1/8-27	1.23	0.67	9/16	5.0		
6-6 DTX	2203-6-6	3/8	3/8-18	1.31	1.02	7/8	4.5	4.5	2.9
8 DTX	2203-6-8	1/2	3/8-18	1.42	1.02	7/8	4.5	4.5	2.0
8-4 DTX	2203-4-8	1/2	1/4-18	1.42	1.01	3/4	4.5	4.5	3.3
8-8 DTX	2203-8-8	1/2	1/2-14	1.52	1.23	1 1/16	3.0	3.0	2.0
10 DTX	2203-8-10	5/8	1/2-14	1.64	1.23	1 1/16	3.0	3.0	2.0
12 DTX	2203-12-12	3/4	3/4-14	1.89	1.36	1 5/16	3.0	3.0	2.0
12-8 DTX	2203-8-12	3/4	1/2-14	1.89	1.35	1 1/16	3.0	3.0	
14 DTX	2203-12-14	7/8	3/4-14	1.86	1.42	1 5/16	3.0		
16 DTX	2203-16-16	1	1-11 1/2	2.17	1.63	1 5/8	1.8	1.8	
20 DTX	2203-20-20	1 1/4	1 1/4-11 1/2	2.33	1.70	1 7/8	1.5	1.5	
24 DTX	2203-24-24	1 1/2	1 1/2-11 1/2	2.89	2.08	2 1/2	1.5	1.5	

# C87OMX

Male Elbow – ISO 6149  
37° Flare / ISO 6149



Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE		M (mm)	M7 (mm)	Y (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 Male Metric Parallel Thread				-S	-SS	-B
	4M10C87OMX	6				M10x1	22.6	25.0
5M12C87OMX	8	M12x1.5	24.1	30.0	13	6.0		
6M14C87OMX	10	M14x1.5	26.9	34.9	14	6.0		
8M16C87OMX	12	M16x1.5	31.8	35.9	19	5.0		
8M18C87OMX	12	M18x1.5	31.8	36.8	19	5.0		
10M18C87OMX	14, 15, 16	M18x1.5	36.8	40.7	22	5.0		
10M22C87OMX	14, 15, 16	M22x1.5	36.8	41.7	22	5.0		
12M22C87OMX	18, 20	M22x1.5	42.2	44.4	27	5.0		
12M27C87OMX	18, 20	M27x2	42.2	48.5	27	5.0		
16M33C87OMX	25	M33x2	46.0	51.2	33	4.0		



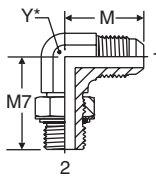
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



Hose  
**A**

### C8OMX

Male Elbow – Metric-ORR  
37° Flare / Metric-ORR



Y\* – Across wrench flats

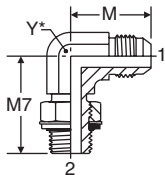
Fittings  
21 Series  
**B**

TUBE FITTING PART #	END SIZE		M (mm)	M7 (mm)	Y (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 Male Metric Parallel Thread				-S	-SS	-B
	4M10C8OMX	6						
5M12C8OMX	8	M12 x 1.5	24.1	28.5	13	3.6		
6M14C8OMX	10	M14 x 1.5	26.9	32.5	14	3.6		
8M16C8OMX	12	M16 x 1.5	31.8	36.4	19	3.6		
8M18C8OMX	12	M18 x 1.5	31.8	36.8	19	3.6		
10M18C8OMX	14, 15, 16	M18 x 1.5	36.8	41.0	22	3.6		
10M22C8OMX	14, 15, 16	M22 x 1.5	36.8	42.5	22	3.6		
12M22C8OMX	18, 20	M22 x 1.5	42.2	44.0	27	3.6		
12M27C8OMX	18, 20	M27 x 2.0	42.2	50.0	27	2.5		
16M33C8OMX	25	M33 x 2.0	46.0	53.0	33	2.0		

Parkrimp Crimping Equipment  
**C**

### C4OMX

Male Elbow – BSPP  
37° Flare / BSPP-ORR



Y\* – Across wrench flats

Hose Assembly Equipment  
**D**

TUBE FITTING PART #	END SIZE		M (mm)	M7 (mm)	Y (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (mm)	2 BSPP				-S	-SS	-B
	4C4OMX	6						
4-4C4OMX	6	1/4-19	22.6	31.8	14	3.6	3.6	
5C4OMX	8	1/8-28	24.1	27.7	13	3.6		
5-4C4OMX	8	1/4-19	26.6	31.8	14	3.6		
5-6C4OMX	8	3/8-19	28.5	36.8	19	3.6		
6C4OMX	10	1/4-19	26.9	31.8	14	3.6	3.6	
6-6C4OMX	10	3/8-19	29.0	36.8	19	3.6	3.6	
8-4C4OMX	12	1/4-19	31.8	36.8	19	3.6		
8C4OMX	12	3/8-19	31.8	36.8	19	3.6	3.6	
8-8C4OMX	12	1/2-14	33.8	43.2	22	3.6	3.6	
10-6C4OMX	16	3/8-19	36.8	37.1	22	3.6		
10C4OMX	14, 15, 16	1/2-14	36.8	43.2	22	3.6	3.6	
10-12C4OMX	15	3/4-14	39.2	49.3	27	3.6		
12-8C4OMX	18, 20	1/2-14	42.2	49.3	27	3.6		
12C4OMX	18, 20	3/4-14	42.2	49.3	27	3.6	3.6	
12-16C4OMX	18	1-11	44.7	52.1	33	3.6		
16-12C4OMX	25	3/4-14	46.0	48.2	33	3.6		
16C4OMX	25	1-11	46.0	52.1	33	3.6		
20-16C4OMX	30, 32	1-11	52.3	57.2	41	3.6		
20C4OMX	30, 32	1 1/4-11	52.3	57.2	41	3.0		
24-20C4OMX	38	1 1/4-11	59.2	60.7	48	3.0		
24C4OMX	38	1 1/2-11	59.2	60.7	48	2.0		

Adapters  
**E**

Accessories  
**F**

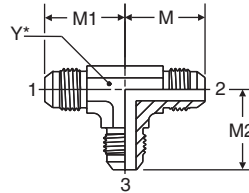
Appendices  
**G**



033T (JTX)

Union Tee  
37° Flare (all three ends)

SAE 070401



Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE			M	M1	M2	Y	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1	2	3					-S	-SS	-B
		(in.)	(in.)	(in.)					(in.)	(in.)	(in.)
2 JTX	033T-2-2	1/8	1/8	1/8	0.78	0.78	0.78	5/16	7.5	7.7	3.3
3 JTX	033T-3-3	3/16	3/16	3/16	0.83	0.83	0.83	7/16	7.5	7.7	3.3
4 JTX	033T-4-4	1/4	1/4	1/4	0.89	0.89	0.89	7/16	7.5	7.7	3.3
4-4-3 JTX	033T-3-4-4	1/4	1/4	3/16	0.89	0.89	0.81	7/16		7.7	
5 JTX	033T-5-5	5/16	5/16	5/16	0.95	0.95	0.95	9/16	6.0	6.0	3.3
6 JTX	033T-6-6	3/8	3/8	3/8	1.06	1.06	1.06	9/16	6.0	6.0	3.3
8 JTX	033T-8-8	1/2	1/2	1/2	1.25	1.25	1.25	3/4	6.0	6.0	3.3
10 JTX	033T-10-10	5/8	5/8	5/8	1.45	1.45	1.45	7/8	5.0	5.0	3.3
12 JTX	033T-12-12	3/4	3/4	3/4	1.66	1.66	1.66	1 1/16	5.0	5.0	2.9
12-12-8 JTX	033T-8-12-12	3/4	3/4	1/2	1.66	1.66	1.42	1 1/16		5.0	
12-16-12 JTX	033T-12-16-12	3/4	1	3/4	1.77	1.81	1.77	1 5/16		5.0	
14 JTX	033T-14-14	7/8	7/8	7/8	1.73	1.73	1.73	1 5/16	5.0		
16 JTX	033T-16-16	1	1	1	1.81	1.81	1.81	1 5/16	4.0	3.5	2.3
20 JTX	033T-20-20	1 1/4	1 1/4	1 1/4	2.06	2.06	2.06	1 5/8	4.0	3.0	
24 JTX	033T-24-24	1 1/2	1 1/2	1 1/2	2.33	2.33	2.33	1 7/8	3.0	2.0	
24-16-16 JTX	033T-16-16-24	1 1/2	1	1	2.33	2.16	2.16	1 7/8		2.0	
32 JTX	033T-32-32	2	2	2	3.06	3.06	3.06	2 1/2	2.0	1.5	

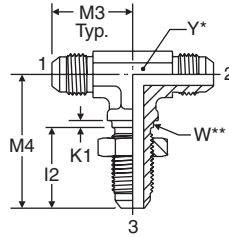
A	Hose
B	Fittings 21 Series
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices



# 543T (WJTX)

Bulkhead Branch Tee  
37° Flare (all three ends)

SAE 070959  
WJTX-WLN – Body with locknut  
(See page E-29 for WLN)



Y\* – Across wrench flats.  
W\*\* – Bulkhead pilot dia. recommended clearance hole +.015 over W dia.

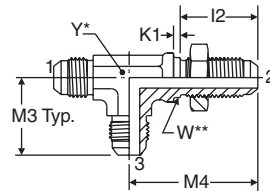
TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		I 2 (in.)	K 1 (in.)	M 3 (in.)	M 4 (in.)	W DIA. (in.)	MAX. BULKHEAD WALL THICKNESS (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 - 3 (in.)									-S	-SS	-B
		4 WJTX	543T-4-4N								1/4	1.02	0.09
6 WJTX	543T-6-6N	3/8	1.09	0.09	1.09	1.81	0.56	0.28	9/16	6.0	6.0		
8 WJTX	543T-8-8N	1/2	1.25	0.13	1.36	2.11	0.75	0.33	3/4	6.0	6.0		
10 WJTX	543T-10-10N	5/8	1.39	0.13	1.56	2.39	0.88	0.32	1 1/16	5.0			
12 WJTX	543T-12-12N	3/4	1.56	0.13	1.78	2.67	1.06	0.34	1 1/16	5.0	5.0		
16 WJTX*	543T-16-16N	1	1.56	0.13	1.94	2.80	1.31	0.29	1 5/16	4.0			
20 WJTX*	543T-20-20N	1 1/4	1.61	0.13	2.17	3.12	1.63	0.29	1 5/8	4.0			

\* Machined from one-piece milled bar stock.

# 533T (WJJTX)

Bulkhead Run Tee  
37° Flare (all three ends)

SAE 070958  
WJJTX-WLN – Body with locknut  
(See page E-29 for WLN)



Y\* – Across wrench flats.  
W\*\* – Bulkhead pilot dia. recommended clearance hole +.015 over W dia.

TUBE FITTING PART #	TUBE FITTING PART #	END SIZE		I 2 (in.)	K 1 (in.)	M 3 (in.)	M 4 (in.)	W DIA. (in.)	MAX. BULKHEAD WALL THICKNESS (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 - 3 (in.)									-S	-SS	-B
		4 WJJTX	533T-4-4N								1/4	1.02	0.09
6 WJJTX	533T-6-6N	3/8	1.09	0.09	1.09	1.81	0.56	0.28	9/16	6.0	6.0		
8 WJJTX	533T-8-8N	1/2	1.25	0.13	1.36	2.11	0.75	0.33	3/4	6.0	6.0		
10 WJJTX	533T-10-10N	5/8	1.39	0.13	1.56	2.39	0.88	0.32	7/8	5.0			
12 WJJTX	533T-12-12N	3/4	1.56	0.13	1.78	2.67	1.06	0.34	1 1/16	5.0	5.0		
16 WJJTX*	533T-16-16N	1	1.56	0.13	1.94	2.80	1.31	0.29	1 7/16	4.0			
20 WJJTX*	533T-20-20N	1 1/4	1.61	0.13	2.17	3.12	1.63	0.29	1 5/8	4.0			

Hose

A

Fittings  
21 Series

B

Parkrimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

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Accessories

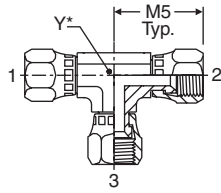
F

Appendices

G

069T (JX6)

Swivel Nut Union Tee  
37° Swivel (all three ends)

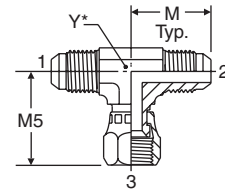


Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M5 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)				
		1 - 3 (in.)	M (in.)			M5 (in.)	Y (in.)	-S	-SS	-B
								-S	-SS	-B
4 JX6	069T-4-4	1/4	1.00	7/16	7.5					
6 JX6	069T-6-6	3/8	1.25	9/16	5.0					
8 JX6	069T-8-8	1/2	1.38	3/4	5.0					
10 JX6	069T-10-10	5/8	1.62	7/8	5.0					
12 JX6	069T-12-12	3/4	1.75	1 1/16	5.0					
16 JX6	069T-16-16	1	2.00	1 3/16	3.6					

393T (S6X)

Swivel Nut Branch Tee  
37° Flare / 37° Flare / 37° Swivel

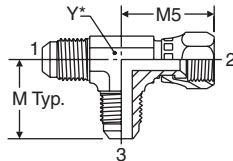


Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	M5 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)				
		1 - 3 (in.)	M (in.)				M5 (in.)	Y (in.)	-S	-SS	-B
									-S	-SS	-B
4 S6X	393T-4-4	1/4	0.89	1.00	7/16	7.5	7.7				
5 S6X	393T-5-5	5/16	0.95	1.16	9/16	6.0	6.0				
6 S6X	393T-6-6	3/8	1.06	1.25	9/16	5.0	6.0				
8 S6X	393T-8-8	1/2	1.25	1.38	3/4	5.0	6.0				
10 S6X	393T-10-10	5/8	1.45	1.62	7/8	5.0	5.0				
12 S6X	393T-12-12	3/4	1.66	1.75	1 1/16	5.0	5.0				
14 S6X	393T-14-14	7/8	1.80	1.78	1 5/16	4.0					
16 S6X	393T-16-16	1	1.81	2.00	1 5/16	3.6	2.5				
20 S6X	393T-20-20	1 1/4	2.06	2.31	1 5/8	3.6	2.5				
24 S6X	393T-24-24	1 1/2	2.33	2.67	1 7/8	2.5	2.0				

063T (R6X)

Swivel Nut Run Tee  
37° Flare / 37° Swivel / 37° Flare



Y\* – Across wrench flats

SAE 070432

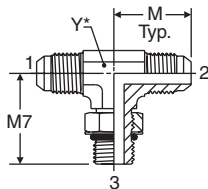
TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	M5 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)				
		1 - 3 (in.)	M (in.)				M5 (in.)	Y (in.)	-S	-SS	-B
									-S	-SS	-B
4 R6X	063T-4-4	1/4	0.89	1.00	7/16	7.5	7.7				
5 R6X	063T-5-5	5/16	0.95	1.06	9/16	6.0	6.0				
6 R6X	063T-6-6	3/8	1.06	1.25	9/16	5.0	6.0				
8 R6X	063T-8-8	1/2	1.25	1.38	3/4	5.0	6.0				
10 R6X	063T-10-10	5/8	1.45	1.62	7/8	5.0	5.0				
12 R6X	063T-12-12	3/4	1.66	1.75	1 1/16	5.0	5.0				
14 R6X	063T-14-14	7/8	1.80	1.78	1 5/16	4.0					
16 R6X	063T-16-16	1	1.81	2.00	1 5/16	3.6	2.5				
20 R6X	063T-20-20	1 1/4	2.06	2.31	1 5/8	3.6	2.5				
24 R6X	063T-24-24	1 1/2	2.33	2.59	1 7/8	2.5	2.0				

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

## 253T (S50X)

Straight Thread Branch Tee  
37° Flare / 37° Flare / SAE-ORB

SAE 070429



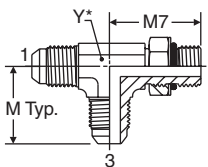
Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE			M (in.)	M7 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 (in.)	3 UN/UNF-2A				-S	-SS	-B
		4 S50X	253T-4-4	1/4				1/4	7/16-20	0.89
4-4-6 S50X	253T-6-4-4	1/4	1/4	9/16-18	1.05	1.25	9/16	6.0		
5 S50X	253T-5-5	5/16	5/16	1/2-20	0.97	1.13	9/16	6.0		
6 S50X	253T-6-6	3/8	3/8	9/16-18	1.06	1.25	9/16	6.0	5.4	
6-6-8 S50X	253T-8-6-6	3/8	3/8	3/4-16	1.14	1.45	3/4	6.0		
8 S50X	253T-8-8	1/2	1/2	3/4-16	1.25	1.45	3/4	6.0	5.4	
8-8-10 S50X	253T-10-8-8	1/2	1/2	7/8-14	1.33	1.70	7/8	5.0		
10 S50X	253T-10-10	5/8	5/8	7/8-14	1.45	1.70	7/8	5.0	5.4	
10-10-12 S50X	253T-12-10-10	5/8	5/8	1 1/16-12	1.54	1.94	1 1/16	5.0		
12 S50X	253T-12-12	3/4	3/4	1 1/16-12	1.66	1.94	1 1/16	5.0	5.4	
12-12-16 S50X	253T-16-12-12	3/4	3/4	1 5/16-12	1.77	2.05	1 5/16	4.0		
16 S50X	253T-16-16	1	1	1 5/16-12	1.81	2.05	1 5/16	4.0	3.0	
20 S50X	253T-20-20	1 1/4	1 1/4	1 5/8-12	2.06	2.25	1 5/8	4.0	2.5	
24 S50X	253T-24-24	1 1/2	1 1/2	1 7/8-12	2.33	2.39	1 7/8	3.0		
32 S50X	253T-32-32	2	2	2 1/2-12	3.06	2.89	2.50	2.0		

## 053T (R50X)

Straight Thread Run Tee  
37° Flare / SAE-ORB / 37° Flare

SAE 070428



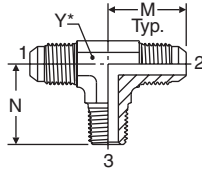
Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE			M (in.)	M7 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	2 UN/UNF-2A	3 (in.)				-S	-SS	-B
		4 R50X	053T-4-4	1/4				7/16-20	1/4	0.89
4-6-4 R50X	053T-4-6-4	1/4	9/16-18	1/4	1.00	1.25	9/16	6.0		
5 R50X	053T-5-5	5/16	1/2-20	5/16	0.97	1.13	9/16	6.0		
6 R50X	053T-6-6	3/8	9/16-18	3/8	1.06	1.25	9/16	6.0	5.4	
6-8-6 R50X	053T-6-8-6	3/8	3/4-16	3/8	1.14	1.45	3/4	6.0		
8 R50X	053T-8-8	1/2	3/4-16	1/2	1.25	1.45	3/4	6.0	5.4	
8-10-8 R50X	053T-8-10-8	1/2	7/8-14	1/2	1.33	1.70	7/8	5.0		
10 R50X	053T-10-10	5/8	7/8-14	5/8	1.45	1.70	7/8	5.0	5.4	
10-12-10 R50X	053T-10-12-10	5/8	1 1/16-12	5/8	1.53	1.94	1 1/16	5.0		
12 R50X	053T-12-12	3/4	1 1/16-12	3/4	1.66	1.94	1 1/16	5.0	5.4	
12-16-12 R50X	053T-12-16-12	3/4	1 5/16-12	3/4	1.76	2.05	1 5/16	4.0		
16 R50X	053T-16-16	1	1 5/16-12	1	1.81	2.05	1 5/16	4.0	3.0	
20 R50X	053T-20-20	1 1/4	1 5/8-12	1 1/4	2.06	2.25	1 5/8	4.0	2.5	
24 R50X	053T-24-24	1 1/2	1 7/8-12	1 1/2	2.33	2.39	1 7/8	3.0		
32 R50X	053T-32-32	2	2 1/2-12	2	3.06	2.89	2 1/2	2.0		

## 213T (STX)

Male Branch Tee  
37° Flare / 37° Flare / NPTF

SAE 070425



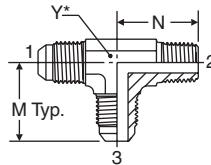
Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)	3 NPTF				-S	-SS	-B
		3 STX	213T-2-3				3/16	1/8-27	0.83
4 STX	213T-2-4	1/4	1/8-27	0.89	0.78	7/16	6.0	6.0	3.3
4-4-4 STX	213T-4-4-4	1/4	1/4-18	1.05	1.09	9/16	6.0	6.0	3.3
4-4-6 STX	213T-6-4-4	1/4	3/8-18	1.13	1.22	3/4	6.0	6.0	
5 STX	213T-2-5	5/16	1/8-27	0.95	0.78	9/16	6.0	6.0	3.3
5-5-4 STX	213T-4-5-5	5/16	1/4-18	1.05	1.09	9/16	6.0	6.0	
6 STX	213T-4-6	3/8	1/4-18	1.06	1.09	9/16	6.0	6.0	3.3
6-6-6 STX	213T-6-6-6	3/8	3/8-18	1.14	1.22	3/4	6.0	6.0	
8 STX	213T-6-8	1/2	3/8-18	1.25	1.22	3/4	6.0	6.0	3.3
8-8-8 STX	213T-8-8-8	1/2	1/2-14	1.34	1.47	7/8	6.0	6.0	
10 STX	213T-8-10	5/8	1/2-14	1.45	1.47	7/8	5.0	5.0	3.3
12 STX	213T-12-12	3/4	3/4-14	1.66	1.59	1 1/16	4.0	4.0	
14 STX	213T-12-14	7/8	3/4-14	1.80	1.69	1 5/16	4.0		
16 STX	213T-16-16	1	1-11 1/2	1.81	1.97	1 5/16	3.0	3.0	
20 STX	213T-20-20	1 1/4	1 1/4-11 1/2	2.06	2.38	1 5/8	2.5	2.5	
24 STX	213T-24-24	1 1/2	1 1/2-11 1/2	1.33	2.64	1 7/8	2.5	2.5	

## 013T (RTX)

Male Run Tee  
37° Flare / NPTF / 37° Flare

SAE 070424



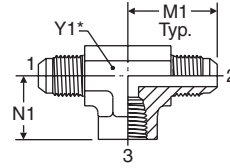
Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 3 (in.)	2 NPTF				-S	-SS	-B
		3 RTX	013T-2-3				3/16	1/8-27	0.83
4 RTX	013T-2-4	1/4	1/8-27	0.89	0.78	7/16	6.0	6.0	3.3
4-4-4 RTX	013T-4-4-4	1/4	1/4-18	1.05	1.09	9/16	6.0	6.0	
5 RTX	013T-2-5	5/16	1/8-27	0.97	0.81	9/16	6.0	6.0	3.3
5-4-5 RTX	013T-5-4-5	5/16	1/4-18	1.05	1.09	9/16	6.0	6.0	
6 RTX	013T-4-6	3/8	1/4-18	1.06	1.09	9/16	6.0	6.0	3.3
6-6-6 RTX	013T-6-6-6	3/8	3/8-18	1.14	1.22	3/4	6.0	6.0	
8 RTX	013T-6-8	1/2	3/8-18	1.25	1.22	3/4	6.0	6.0	3.3
8-8-8 RTX	013T-8-8-8	1/2	1/2-14	1.34	1.47	7/8	6.0	6.0	
10 RTX	013T-8-10	5/8	1/2-14	1.45	1.47	7/8	5.0	5.0	
12 RTX	013T-12-12	3/4	3/4-14	1.66	1.59	1 1/16	4.0	4.0	
12-8-12 RTX	013T-12-8-12	3/4	1/2-14	1.66	1.59	1 1/16	5.0		
14 RTX	013T-14-14	7/8	3/4-14	1.80	1.69	1 5/16	4.0		
16 RTX	013T-16-16	1	1-11 1/2	1.81	1.97	1 5/16	3.0	3.0	
20 RTX	013T-20-20	1 1/4	1 1/4-11 1/2	2.06	2.38	1 5/8	2.5	2.5	
24 RTX	013T-24-24	1 1/2	1 1/2-11 1/2	2.33	2.64	1 7/8	2.5	2.5	

## 223T (OTX)

Female Branch Tee  
37° Flare / 37° Flare / NPTF

SAE 070427



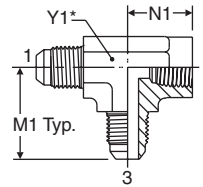
Y1\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M1 (in.)	N1 (in.)	Y1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 2 (in.)	3 NPTF				-S	-SS	-B
		4 OTX	223T-2-4				1/4	1/8-27	1.08
4-4-4 OTX	223T-4-4-4	1/4	1/4-18	1.13	0.88	3/4		5.0	
5 OTX	223T-2-5	5/16	1/8-27	1.08	0.66	9/16	5.0		
6 OTX	223T-4-6	3/8	1/4-18	1.24	0.88	3/4	5.0	5.0	3.3
6-6-6 OTX	223T-6-6-6	3/8	3/8-18	1.23	1.02	7/8	4.5	4.5	
8 OTX	223T-6-8	1/2	3/8-18	1.42	1.02	7/8	4.5	4.5	2.9
8-8-8 OTX	223T-8-8-8	1/2	1/2-14	1.42	1.23	1 1/16	3.0	3.0	
10 OTX	223T-8-10	5/8	1/2-14	1.64	1.24	1 1/16	3.0	3.0	
12 OTX	223T-12-12	3/4	3/4-14	1.89	1.36	1 5/16	3.0	3.0	2.0
14 OTX	223T-12-14	7/8	3/4-14	1.86	1.42	1 5/16	3.0		
16 OTX	223T-16-16	1	1-11 1/2	2.17	1.63	1 5/8	1.8		
20 OTX	223T-20-20	1 1/4	1 1/4-11 1/2	2.33	1.70	1 7/8	1.5		
24 OTX	223T-24-24	1 1/2	1 1/2-11 1/2	2.89	2.08	2 1/2	1.5		

## 023T (MTX)

Female Run Tee  
37° Flare / NPTF / 37° Flare

SAE 070426



Y1\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M1 (in.)	N1 (in.)	Y1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 & 3 (in.)	2 NPTF				-S	-SS	-B
		4 MTX	023T-2-4				1/4	1/8-27	1.08
4-4-4 MTX	023T-4-4-4	1/4	1/4-18	1.13	0.88	3/4		5.0	
6 MTX	023T-4-6	3/8	1/4-18	1.24	0.88	3/4	5.0	5.0	3.3
8 MTX	023T-6-8	1/2	3/8-18	1.42	1.02	7/8	4.5	4.5	2.9
8-8-8 MTX	023T-8-8-8	1/2	1/2-14	1.42	1.23	1 1/16	3.0	3.0	
10 MTX	023T-8-10	5/8	1/2-14	1.64	1.24	1 1/16	3.0	3.0	
12 MTX	023T-12-12	3/4	3/4-14	1.89	1.36	1 5/16	3.0	3.0	
14 MTX	023T-12-14	7/8	3/4-14	1.86	1.42	1 5/16	3.0		
16 MTX	023T-16-16	1	1-11 1/2	2.17	1.63	1 5/8	1.8		
20 MTX	023T-20-20	1 1/4	1 1/4-11 1/2	2.33	1.70	1 7/8	1.5		
24 MTX	023T-24-24	1 1/2	1 1/2-11 1/2	2.89	2.08	2 1/2	1.5		

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

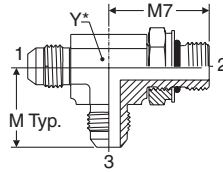
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

## R87OMX

ISO 6149 Run Tee  
37° Flare / ISO 6149 / 37° Flare

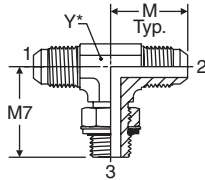


Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE		M (mm)	M7 (mm)	Y (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 3 (mm)	2 Male Metric Parallel Thread				-S	-SS	-B
	6M14R87OMX	10						
8M16R87OMX	12	M16x1.5	31.8	38.0	19	5.0		
10M22R87OMX	14, 15, 16	M22x1.5	36.8	42.5	22	5.0		
12M27R87OMX	18, 20	M27x1.5	42.2	51.0	27	5.0		

## S4OMX

Male Branch Tee – BSPP  
37° Flare / 37° Flare / BSPP-ORR



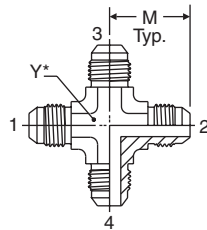
Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE		M (mm)	M7 (mm)	Y (mm)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 & 2 (mm)	3 BSPP				-S	-SS	-B
	4S4OMX	6						
6S4OMX	10	1/4-19	26.9	31.8	14	3.6		
8S4OMX	12	3/8-19	31.8	36.8	19	3.6		
10S4OMX	14,15,16	1/2-14	36.8	43.2	22	3.6		
12S4OMX	18,20	3/4-14	42.2	49.3	27	3.6		
16S4OMX	25	1-11	46.0	52.1	33	3.6		
20S4OMX	28, 30, 32	1 1/4-11	52.3	57.2	41			

## 033X (KTX)

Union Cross  
37° Flare (all four ends)

SAE 070501



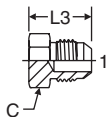
Y\* – Across wrench flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE	M (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 - 4 (in.)			-S	-SS	-B
4 KTX	033X-4	1/4	0.89	7/16	7.5	7.7	3.3
5 KTX	033X-5	5/16	0.95	9/16	6.0		
6 KTX	033X-6	3/8	1.06	9/16	6.0	6.0	3.3
8 KTX	033X-8	1/2	1.25	3/4	6.0	6.0	3.3
10 KTX	033X-10	5/8	1.45	7/8	5.0		
12 KTX	033X-12	3/4	1.66	1 1/16	5.0	5.0	
16 KTX	033X-16	1	1.81	1 5/16	4.0		



### 03CP (PNTX)

Plug  
37° Flare

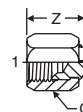


SAE 070109

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C (in.)	L3 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	HEX (in.)			-S	-SS	-B
2 PNTX	03CP-2	1/8	7/16	0.70			9.0	
3 PNTX	03CP-3	3/16	7/16	0.73	7.5	9.0		
4 PNTX	03CP-4	1/4	1/2	0.80	7.5	9.0	3.3	
5 PNTX	03CP-5	5/16	9/16	0.80	6.0	7.2	3.3	
6 PNTX	03CP-6	3/8	5/8	0.84	6.0	7.2	3.3	
8 PNTX	03CP-8	1/2	13/16	0.94	6.0	7.2	3.3	
10 PNTX	03CP-10	5/8	15/16	1.10	5.0	6.0	3.3	
12 PNTX	03CP-12	3/4	1 1/8	1.28	5.0	6.0	3.3	
14 PNTX	03CP-14	7/8	1 1/4	1.31	5.0			
16 PNTX	03CP-16	1	1 3/8	1.33	4.5	5.4	2.6	
20 PNTX	03CP-20	1 1/4	1 11/16	1.45	4.0	4.8		
24 PNTX	03CP-24	1 1/2	2	1.66	4.0	4.8		
32 PNTX	03CP-32	2	2 5/8	2.05	2.0	2.4		

### 06CP (FNTX)

Cap  
37° Flare

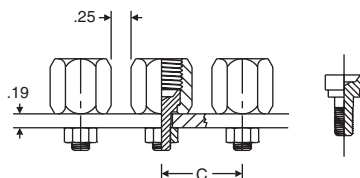


SAE 070112

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C (in.)	Z (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 (in.)	HEX (in.)			-S	-SS	-B
2 FNTX	06CP-2	1/8	3/8	0.60	7.5	9.0	3.3	
3 FNTX	06CP-3	3/16	7/16	0.66	7.5	9.0	3.3	
4 FNTX	06CP-4	1/4	9/16	0.67	7.5	9.0	3.3	
5 FNTX	06CP-5	5/16	5/8	0.77	6.0	7.2	3.3	
6 FNTX	06CP-6	3/8	11/16	0.81	6.0	7.2	3.3	
8 FNTX	06CP-8	1/2	7/8	0.94	6.0	7.2	3.3	
10 FNTX	06CP-10	5/8	1	1.07	5.0	6.0	3.3	
12 FNTX	06CP-12	3/4	1 1/4	1.24	5.0	6.0	3.3	
14 FNTX	06CP-14	7/8	1 3/8	1.26	5.0			
16 FNTX	06CP-16	1	1 1/2	1.29	4.5	5.4	2.6	
20 FNTX	06CP-20	1 1/4	2	1.39	4.0	4.8		
24 FNTX	06CP-24	1 1/2	2 1/4	1.70	4.0	4.8		
32 FNTX	06CP-32	2	2 7/8	2.01	2.0	2.4		

### T22X

Mountie Cap



TUBE FITTING PART #	END SIZE		C (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 UN/UNF-2B			-S	-SS	-B
4 T22X	1/4	1/4-20	0.91	0.72	7.5		
6 T22X	3/8	1/4-20	1.08	0.81	6.0		
8 T22X	1/2	5/16-18	1.25	0.97	6.0		

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

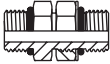
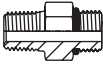
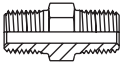
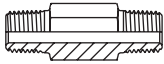
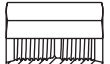
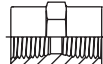
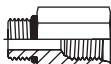
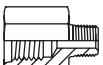
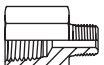


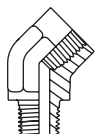
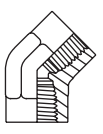
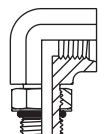
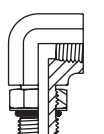
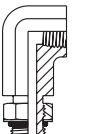
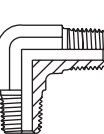
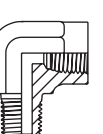
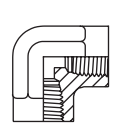
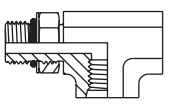
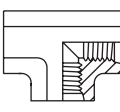
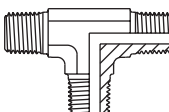
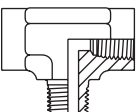
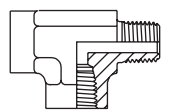
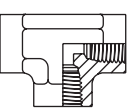
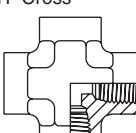


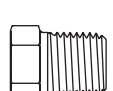
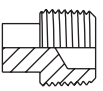


Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**


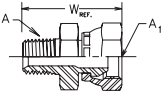
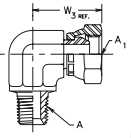
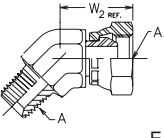
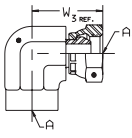
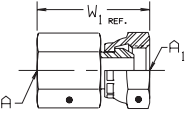
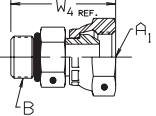
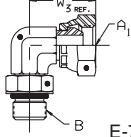
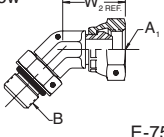
Appendices  
**G**



Nipples	0505 (F5OHAO) SAE-ORB / SAE-ORB  E-59	F50F SAE-ORB / NPTF  E-59	0101 (FF) NPTF / NPTF  E-60	FFF NPTF / NPTF Long  E-60	
	Couplings	G5HG5 SAE-ORB / SAE-ORB  E-61	0202 (GG) NPTF / NPTF  E-61	Reducers, Expanders, Conversions	0510 (F5OG5) SAE-ORB / SAE-ORB  E-62
0110 (FHG5) NPTF / SAE-ORB  E-63		0201 (FG) NPTF / NPTF  E-64	0102 (PTR) Pipe Thread Reducer  E-65		F3HG BSPT/ NPTF  E-66
45° Elbows	3102 (CD45) NPTF / NPTF  E-66	4202 (DD45) NPTF / NPTF  E-66	90° Elbows	2510 (AOEG5) SAE-ORB / SAE-ORB  E-67	2502 (AOEG) SAE-ORB / NPTF  E-67
	5502 (AOE4G) SAE-ORB / NPTF Long  E-67	CR NPTF / NPTF  E-68		2102 (CD) NPTF / NPTF  E-68	2202 (DD) NPTF / NPTF  E-69
AOG5JG5 SAE-ORB Run Tee  E-69	G5G5JG5 SAE-ORB Tee  E-70	RRS NPTF Tee  E-70	212T (MMS) NPTF Branch Tee  E-70	012T (MRO) NPTF Run Tee  E-70	022T (MMO) NPTF Tee  E-71
Cross	022X (KMMOO) NPTF Cross  E-71	Plugs, Bleed Adapters	05CP (P5ON) SAE-ORB Hex Head  E-71	05HP (HP5ON) SAE-ORB Hollow Hex  E-71	01CP (HP) NPTF Hex Head  E-72
	SHP NPTF Square Head  E-72		01HP (HHP) NPTF Hollow Hex Head  E-72	HPC NPTF Pipe Cap  E-72	45° Flared

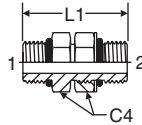
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose <b>A</b>
Fittings <b>B</b>
Parkrimp Crimping Equipment <b>C</b>
Hose Assembly Equipment <b>D</b>
Adapters <b>E</b>
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Appendices <b>G</b>

 <p><b>Pipe Swivel</b></p>	<p><b>0107</b> Male Pipe</p>  <p style="text-align: right;">E-73</p>	<p><b>2107</b> Male Pipe Elbow - 90°</p>  <p style="text-align: right;">E-73</p>	<p><b>3107</b> Male Pipe Elbow - 45°</p>  <p style="text-align: right;">E-74</p>	<p><b>2207</b> Female Pipe Elbow - 90°</p>  <p style="text-align: right;">E-74</p>	<p><b>0207</b> Female Pipe</p>  <p style="text-align: right;">E-74</p>
<p><b>0507</b> Straight Thread</p>  <p style="text-align: right;">E-74</p>	<p><b>2507</b> Straight Thread - 90° Elbow</p>  <p style="text-align: right;">E-75</p>	<p><b>3507</b> Straight Thread - 45° Elbow</p>  <p style="text-align: right;">E-75</p>			

### 0505 (F5OHAO)

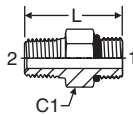
Straight Thread Union  
SAE-ORB / SAE-ORB



TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C4 HEX (in.)	L1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 UN/UNF-2A	2 UN/UNF-2A			-S	-SS	-B
		4 F5OHAO	0505-4-4			7/16-20	7/16-20	9/16
6 F5OHAO	0505-6-6	9/16-18	9/16-18	11/16	1.41	6.0	6.0	
8 F5OHAO	0505-8-8	3/4-16	3/4-16	7/8	1.56	6.0	6.0	
10 F5OHAO	0505-10-10	7/8-14	7/8-14	1	1.81	5.0	5.0	
12 F5OHAO	0505-12-12	1 1/16-12	1 1/16-12	1 1/4	2.13	5.0	5.0	
16 F5OHAO	0505-16-16	1 5/16-12	1 5/16-12	1 1/2	2.13	4.0	4.0	
20 F5OHAO	0505-20-20	1 5/8-12	1 5/8-12	1 7/8	2.13	4.0	4.0	
24 F5OHAO	0505-24-24	1 7/8-12	1 7/8-12	2 1/8	2.13	3.0	3.0	
32 F5OHAO	0505-32-32	2 1/2-12	2 1/2-12	2 3/4	2.13	2.0	2.0	

### F5OF

Male Pipe Adapter  
SAE-ORB / NPTF



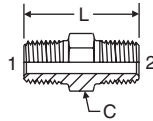
TUBE FITTING PART #	END SIZE		C1 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 UN/UNF-2A	2 NPTF			-S	-SS	-B
	4-1/8 F5OF	7/16-20			1/8-27	9/16	1.00
4-1/4 F5OF	7/16-20	1/4-18	9/16	1.20	6.0	6.0	
5-1/4 F5OF	1/2-20	1/4-18	5/8	1.20	6.0	6.0	
6-1/4 F5OF	9/16-18	1/4-18	11/16	1.25	6.0	6.0	
6-3/8 F5OF	9/16-18	3/8-18	11/16	1.34	6.0	6.0	
8-3/8 F5OF	3/4-16	3/8-18	7/8	1.36	6.0	6.0	
8-1/2 F5OF	3/4-16	1/2-14	7/8	1.53	6.0	6.0	
10-1/2 F5OF	7/8-14	1/2-14	1	1.59	6.0	6.0	
12-3/4 F5OF	1 1/16-12	3/4-14	1 1/4	1.80	5.0	6.0	
16-3/4 F5OF	1 5/16-12	3/4-14	1 1/2	1.78	5.4	6.0	
16-1 F5OF	1 5/16-12	1-11 1/2	1 1/2	1.98	4.5	5.4	
20-1 1/4 F5OF	1 5/8-12	1 1/4-11 1/2	1 7/8	2.02	3.0	3.6	
24-1 1/2 F5OF	1 7/8-12	1 1/2-11 1/2	2 1/8	2.25	3.0	3.0	

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



# 0101 (FF)

Pipe Nipple  
NPTF / NPTF

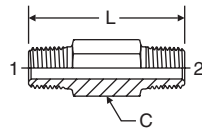


TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 NPTF			-S	-SS	-B
1/8 FF	0101-2-2	1/8-27	1/8-27	7/16	1.06	6.0	7.2	3.9
1/4 x 1/8 FF	0101-2-4	1/4-18	1/8-27	5/8	1.25	6.0	7.2	3.9
1/4 FF	0101-4-4	1/4-18	1/4-18	5/8	1.45	6.0	7.2	3.9
3/8 x 1/8 FF	0101-2-6	3/8-18	1/8-27	3/4	1.45	6.0	7.2	
3/8 x 1/4 FF	0101-4-6	3/8-18	1/4-18	3/4	1.45	6.0	7.2	3.9
3/8 FF	0101-6-6	3/8-18	3/8-18	3/4	1.45	6.0	7.2	3.9
1/2 x 1/8 FF	0101-2-8	1/2-14	1/8-27	7/8	1.52		7.2	
1/2 x 3/8 FF	0101-6-8	1/2-14	3/8-18	7/8	1.70	6.0	7.2	3.9
1/2 x 1/4 FF	0101-4-8	1/2-14	1/4-18	7/8	1.70	6.0	7.2	3.9
1/2 FF	0101-8-8	1/2-14	1/2-14	7/8	1.89	6.0	7.2	3.9
3/4 x 1/4 FF	0101-4-12	3/4-14	1/4-18	1 1/8	1.78	5.5	6.6	3.5
3/4 x 3/8 FF	0101-6-12	3/4-14	1/4-18	1 1/8	1.78		6.6	
3/4 x 1/2 FF	0101-8-12	3/4-14	1/2-14	1 1/8	1.96	5.5	6.6	3.5
3/4 FF	0101-12-12	3/4-14	3/4-14	1 1/8	1.96	5.5	6.6	3.5
1 x 1/4	0101-4-16	1-11 1/2	1/4-18	1 3/8	1.96		6.6	
1 x 3/8 FF	0101-6-16	1-11 1/2	3/8-18	1 3/8	1.96		6.6	
1 x 1/2 FF	0101-8-16	1-11 1/2	1/2-14	1 3/8	2.09		6.6	
1 x 3/4 FF	0101-12-16	1-11 1/2	3/4-14	1 3/8	2.09	4.5	5.4	
1 FF	0101-16-16	1-11 1/2	1-11 1/2	1 3/8	2.34	4.5	5.4	3.0
1 1/4 x 1 FF	0101-16-20	1 1/4-11 1/2	1-11 1/2	1 3/4	2.45	3.0	3.6	
1 1/4 FF	0101-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 3/4	2.48	3.0	3.6	
1 1/2 x 1 FF	0101-16-24	1 1/2-11 1/2	1-11 1/2	2	2.55	3.0		
1 1/2 FF	0101-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2	2.61	3.0	3.6	
2 x 1 1/2	0101-24-32	2-11 1/2	1 1/2-11 1/2	2 1/2	2.79		2.4	
2 FF	0101-32-32	2-11 1/2	2-11 1/2	2 1/2	2.83	2.0	2.4	

Note: All "FF" fittings have a 30° chamfer for sealing with NPSM swivel type fittings.

# FFF

Long Pipe Nipple  
NPTF / NPTF



TUBE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 NPTF	2 NPTF			-S	-SS	-B
1/8 x 1.5 FFF	1/8-27	1/8-27	7/16	1.5		7.2	3.9
1/8 x 2.0 FFF	1/8-27	1/8-27	7/16	2.0		7.2	3.9
1/8 x 2.5 FFF	1/8-27	1/8-27	7/16	2.5		7.2	3.9
1/8 x 3.0 FFF	1/8-27	1/8-27	7/16	3.0		7.2	3.9
1/4 x 1.5 FFF	1/4-18	1/4-18	5/8	1.5		7.2	3.9
1/4 x 2.0 FFF	1/4-18	1/4-18	5/8	2.0		7.2	3.9
1/4 x 2.5 FFF	1/4-18	1/4-18	5/8	2.5		7.2	3.9
1/4 x 3.0 FFF	1/4-18	1/4-18	5/8	3.0		7.2	3.9
1/4 x 4.0 FFF	1/4-18	1/4-18	5/8	4.0		7.2	3.9
3/8 x 2.0 FFF	3/8-18	3/8-18	3/4	2.0		7.2	
3/8 x 3.0 FFF	3/8-18	3/8-18	3/4	3.0		7.2	
3/8 x 3.5 FFF	3/8-18	3/8-18	3/4	3.5		7.2	
3/8 x 4.0 FFF	3/8-18	3/8-18	3/4	4.0		7.2	
1/2 x 2.0 FFF	1/2-14	1/2-14	7/8	2.0		7.2	
1/2 x 2.5 FFF	1/2-14	1/2-14	7/8	2.5		7.2	
1/2 x 3.0 FFF	1/2-14	1/2-14	7/8	3.0		7.2	3.9
1/2 x 4.0 FFF	1/2-14	1/2-14	7/8	4.0		7.2	
1/2 x 6.0 FFF	1/2-14	1/2-14	7/8	6.0		7.2	
3/4 x 3.0 FFF	3/4-14	3/4-14	1 1/8	3.0		6.6	
1 x 3.0 FFF	1-11 1/2	1-11 1/2	1 3/8	3.0		6.6	



Hose

A

Fittings  
21 Series

B

Parkrimp  
Crimping  
Equipment

C

Hose  
Assembly  
Equipment

D

Adapters

E

Accessories

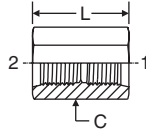
F

Appendices

G

### G5HG5

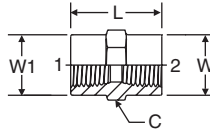
Straight Thread Coupling  
Female SAE / Female SAE



TUBE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 UN/UNF-2B	2 UN/UNF-2B			-S	-SS	-B
	4 G5HG5	7/16-20					
6 G5HG5	9/16-18	9/16-18	13/16	1.26	6.0		
8 G5HG5	3/4-16	3/4-16	1	1.42	5.0		
10 G5HG5	7/8-14	7/8-14	1 3/16	1.60	4.5		
12 G5HG5	1 1/16-12	1 1/16-12	1 3/8	1.85	4.5		
16 G5HG5	1 5/16-12	1 5/16-12	1 5/8	1.85	3.5		

### 0202 (GG)

Pipe Coupling  
NPTF / NPTF



SAE 140138

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	W (in.)	W1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 NPTF					-S	-SS	-B
		1/8 GG	0202-2-2							
1/4 x 1/8 GG	0202-2-4	1/4-18	1/8-27	3/4	0.94	0.75	0.63	6.0	6.0	3.9
1/4 GG	0202-4-4	1/4-18	1/4-18	3/4	1.13	0.75	0.75	6.0	6.0	3.9
3/8 x 1/8 GG	0202-2-6	3/8-18	1/8-27	7/8	1.03	0.88	0.63	6.0	6.0	3.9
3/8 x 1/4 GG	0202-4-6	3/8-18	1/4-18	7/8	1.13	0.88	0.75	6.0	6.0	3.9
3/8 GG	0202-6-6	3/8-18	3/8-18	7/8	1.13	0.88	0.88	6.0	6.0	3.9
1/2 x 1/8 GG	0202-2-8	1/2-14	1/8-27	1 1/8	1.06	1.13	0.63		6.0	
1/2 x 1/4 GG	0202-4-8	1/2-14	1/4-18	1 1/8	1.38	1.13	0.75	5.0	6.0	3.2
1/2 x 3/8 GG	0202-6-8	1/2-14	3/8-18	1 1/8	1.50	1.13	0.88	5.0	6.0	3.2
1/2 GG	0202-8-8	1/2-14	1/2-14	1 1/8	1.50	1.13	1.13	5.0	6.0	3.2
3/4 x 1/4 GG	0202-4-12	3/4-14	1/4-18	1 3/8	1.55	1.36	0.75	4.0	4.8	
3/4 x 1/2 GG	0202-8-12	3/4-14	1/2-14	1 3/8	1.88	1.36	1.13	4.0	4.8	
3/4 GG	0202-12-12	3/4-14	3/4-14	1 3/8	1.53	1.38	1.38	4.0	4.8	2.6
1 x 1/2 GG	0202-8-16	1-11 1/2	1/2-14	1 5/8	1.77	1.63	1.13		3.6	
1 x 3/4 GG	0202-12-16	1-11 1/2	3/4-14	1 5/8	1.77	1.63	1.38		3.6	
1 GG	0202-16-16	1-11 1/2	1-11 1/2	1 5/8	1.89	1.63	1.63	3.0	3.6	1.9
1 1/4 x 1 GG	0202-16-20	1 1/4-11 1/2	1-11 1/2	2	1.93	2.00	1.63		3.0	
1 1/4 GG	0202-20-20	1 1/4-11 1/2	1 1/4-11 1/2	2	1.93	2.00	2.00	2.5	3.0	
1 1/2 x 1 1/4	0202-20-24	1 1/2-11 1/2	1 1/4-11 1/2	2 3/8	1.93	2.37	2.37		2.4	
1 1/2 GG	0202-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2 3/8	1.93	2.38	2.38	2.0	2.4	
2 GG	0202-32-32	2-11 1/2	2-11 1/2	2 7/8	1.97	2.88	2.88		2.4	

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

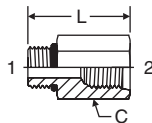
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

# 0510 (F5OG5)

Straight Thread Reducer /  
Expander  
SAE-ORB / SAE-ORB



SAE 090136

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 UN/UNF-2A	2 UN/UNF-2B			-S	-SS	-B
		2-4 F5OG5	0510-2-4			5/16-24	7/16-20	11/16
4-4 F5OG5	0510-4-4	7/16-20	7/16-20	11/16	1.08	7.5		
4-6 F5OG5	0510-6-4	7/16-20	9/16-18	13/16	1.16	6.0	6.0	
6-4 F5OG5	0510-4-6	9/16-18	7/16-20	11/16	1.03	6.0	6.0	
6-6 F5OG5	0510-6-6	9/16-18	9/16-18	13/16	1.16	6.0		
6-8 F5OG5	0510-8-6	9/16-18	3/4-16	1 1/16	1.38	6.0	6.0	
8-4 F5OG5	0510-4-8	3/4-16	7/16-20	7/8	1.13	6.0		
8-6 F5OG5	0510-6-8	3/4-16	9/16-18	7/8	1.13	6.0	6.0	
8-10 F5OG5	0510-10-8	3/4-16	7/8-14	1 1/8	1.56	4.5	4.5	
10-4 F5OG5	0510-4-10	7/8-14	7/16-20	1	0.81	5.0		
10-6 F5OG5	0510-6-10	7/8-14	9/16-18	1	1.26	5.0	6.0	
10-8 F5OG5	0510-8-10	7/8-14	3/4-16	1	1.31	5.0	6.0	
10-12 F5OG5	0510-12-10	7/8-14	1 1/16-12	1 3/8	1.69	4.5	4.5	
12-4 F5OG5	0510-4-12	1 1/16-12	7/16-20	1 1/4	1.00	5.0		
12-6 F5OG5	0510-6-12	1 1/16-12	9/16-18	1 1/4	1.00	5.0		
12-8 F5OG5	0510-8-12	1 1/16-12	3/4-16	1 1/4	1.45	5.0	6.0	
12-10 F5OG5	0510-10-12	1 1/16-12	7/8-14	1 1/4	1.53	5.0	5.0	
12-16 F5OG5	0510-16-12	1 1/16-12	1 5/16-12	1 5/8	1.88	3.5	3.5	
16-6 F5OG5	0510-6-16	1 5/16-12	9/16-18	1 1/2	1.00	4.5		
16-8 F5OG5	0510-8-16	1 5/16-12	3/4-16	1 1/2	1.00	4.5	4.5	
16-10 F5OG5	0510-10-16	1 5/16-12	7/8-14	1 1/2	1.00	4.5		
16-12 F5OG5	0510-12-16	1 5/16-12	1 1/16-12	1 1/2	1.75	4.5	4.5	
16-20 F5OG5	0510-20-16	1 5/16-12	1 5/8-12	2 1/8	1.97	3.0		
20-6 F5OG5	0510-6-20	1 5/8-12	9/16-18	1 7/8	1.00	4.0		
20-8 F5OG5	0510-8-20	1 5/8-12	3/4-16	1 7/8	1.00	4.0		
20-10 F5OG5	0510-10-20	1 5/8-12	7/8-14	1 7/8	1.00	4.0		
20-12 F5OG5	0510-12-20	1 5/8-12	1 1/16-12	1 7/8	1.00	4.0	4.0	
20-16 F5OG5	0510-16-20	1 5/8-12	1 5/16-12	1 7/8	1.72	4.0	4.0	
20-24 F5OG5	0510-24-20	1 5/8-12	1 7/8-12	2 1/2	1.88	3.0	3.0	
24-6 F5OG5	0510-6-24	1 7/8-12	9/16-18	2 1/8	1.00	3.0		
24-12 F5OG5	0510-12-24	1 7/8-12	1 1/16-12	2 1/8	1.00	3.0	3.0	
24-16 F5OG5	0510-16-24	1 7/8-12	1 5/16-12	2 1/8	1.00	3.0	3.0	
24-20 F5OG5	0510-20-24	1 7/8-12	1 5/8-12	2 1/8	1.75	3.0	3.0	
32-20 F5OG5	0510-20-32	2 1/2-12	1 5/8-12	2 3/4	1.00	2.0		
32-24 F5OG5	0510-24-32	2 1/2-12	1 7/8-12	2 3/4	1.80	2.0	2.0	

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

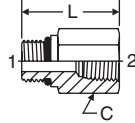
Accessories  
**F**

Appendices  
**G**



# F50G

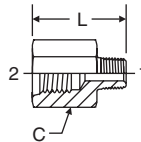
Female Pipe Adapter  
SAE-ORB / NPTF



TUBE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 UN/UNF-2A	2 NPTF			-S	-SS	-B
2-1/8 F50G	5/16-24	1/8-27	9/16	0.91		6.0	
4-1/8 F50G	7/16-20	1/8-27	9/16	1.00	6.0	6.0	
4-1/4 F50G	7/16-20	1/4-18	3/4	1.16	6.0	6.0	
5-1/8 F50G	1/2-20	1/8-27	5/8	1.06	6.0		
5-1/4 F50G	1/2-20	1/4-18	3/4	1.19	6.0		
6-1/8 F50G	9/16-18	1/8-27	11/16	1.00	6.0		
6-1/4 F50G	9/16-18	1/4-18	3/4	1.16	6.0	6.0	
6-3/8 F50G	9/16-18	3/8-18	7/8	1.28	6.0	6.0	
6-1/2 F50G	9/16-18	1/2-14	1 1/8	1.53	5.0	6.0	
8-1/8 F50G	3/4-16	1/8-27	7/8	0.80		6.0	
8-1/4 F50G	3/4-16	1/4-18	7/8	1.13	6.0	6.0	
8-3/8 F50G	3/4-16	3/8-18	7/8	1.28	6.0	6.0	
8-1/2 F50G	3/4-16	1/2-14	1 1/8	1.50	5.0	6.0	
10-1/4 F50G	7/8-14	1/4-18	1	0.81	5.0	6.0	
10-3/8 F50G	7/8-14	3/8-18	1	1.31	5.0	6.0	
10-1/2 F50G	7/8-14	1/2-14	1 1/8	1.53	5.0	6.0	
10-3/4 F50G	7/8-14	3/4-14	1 3/8	1.63	4.0		
12-1/4 F50G	1 1/16-12	1/4-18	1 1/4	1.00		6.0	
12-3/8 F50G	1 1/16-12	3/8-18	1 1/4	1.00	5.0	6.0	
12-1/2 F50G	1 1/16-12	1/2-14	1 1/4	1.41	5.0	6.0	
12-3/4 F50G	1 1/16-12	3/4-14	1 3/8	1.72	4.0	4.8	
14-1/2 F50G	1 3/16-12	1/2-14	1 3/8	1.06	5.0		
14-3/4 F50G	1 3/16-12	3/4-14	1 3/8	1.69	4.0		
16-1/2 F50G	1 5/16-12	1/2-14	1 1/2	1.00	5.0	6.0	
16-3/4 F50G	1 5/16-12	3/4-14	1 1/2	1.50	4.0	4.8	
16-1 F50G	1 5/16-12	1-11 1/2	1 5/8	1.88	3.0	3.6	
20-1 F50G	1 5/8-12	1-11 1/2	1 7/8	1.00	3.0	3.6	
20-1 1/4 F50G	1 5/8-12	1 1/4-11 1/2	2	1.97	2.5	3.0	
20-1 1/2 F50G	1 5/8-12	1 1/2-14	2 1/4	2.16	2.5	3.0	
24-1 F50G	1 7/8-12	1-11 1/2	2 1/8	1.00	3.0	3.6	
24-1 1/4 F50G	1 7/8-12	1 1/4-11 1/2	2 1/8	1.94	2.5	3.0	
24-1 1/2 F50G	1 7/8-12	1 1/2-11 1/2	2 1/4	2.00	2.0	2.4	
32-2 F50G	2 1/2-12	2-11 1/2	2 7/8	2.06	2.0	2.4	

# 0110 (FHG5)

Female Straight Thread Adapter  
NPTF / SAE-ORB



TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 UN/UNF-2A			-S	-SS	-B
1/8-4 FHG5	0110-2-4	1/8-27	7/16-20	11/16	1.06	6.0		
1/8-5 FHG5	0110-2-5	1/8-27	1/2-20	3/4	1.09	6.0		
1/4-6 FHG5	0110-4-6	1/4-18	9/16-18	3/4	1.36	6.0		
3/8-6 FHG5	0110-6-6	3/8-18	9/16-18	3/4	1.42	6.0		
3/8-8 FHG5	0110-6-8	3/8-18	3/4-16	1	1.50	5.0		
1/2-6 FHG5	0110-8-6	1/2-14	9/16-18	7/8	1.58	6.0		
1/2-8 FHG5	0110-8-8	1/2-14	3/4-16	1	1.66	5.0		
1/2-10 FHG5	0110-8-10	1/2-14	7/8-14	1 1/4	1.75	4.5		
3/4-8 FHG5	0110-12-8	3/4-14	3/4-16	1 1/8	1.13	5.0		
3/4-12 FHG5	0110-12-12	3/4-14	1 1/16-12	1 3/8	1.97	4.5		
1-16 FHG5	0110-16-16	1-11 1/2	1 5/16-12	1 5/8	2.13	3.5		

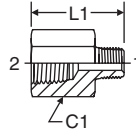


Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



0201 (FG)

Expander / Adapter  
NPTF / NPTF



SAE 140139

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C1 HEX (in.)	L1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 NPTF			-S	-SS	-B
		1/8 x 1/16 FG	0201-2-1			1/16-27	1/8-27	5/8
1/8 FG	0201-2-2	1/8-27	1/8-27	5/8	1.03	6.0	6.0	
1/4 x 1/8 FG	0201-4-2	1/8-27	1/4-18	3/4	1.21	6.0	6.0	3.9
1/4 FG	0201-4-4	1/4-18	1/4-18	3/4	1.39	6.0	6.0	3.9
3/8 x 1/8 FG	0201-6-2	1/8-27	3/8-18	7/8	1.25	6.0	6.0	
3/8 x 1/4 FG	0201-6-4	1/4-18	3/8-18	7/8	1.44	6.0	6.0	3.9
3/8 FG	0201-6-6	3/8-18	3/8-18	7/8	1.44	6.0	6.0	3.9
1/2 x 1/8 FG	0201-8-2	1/8-27	1/2-14	1 1/8	1.50	5.0	6.0	3.2
1/2 x 1/4 FG	0201-8-4	1/4-18	1/2-14	1 1/8	1.69	5.0	6.0	3.2
1/2 x 3/8 FG	0201-8-6	3/8-18	1/2-14	1 1/8	1.69	5.0	6.0	3.2
1/2 FG	0201-8-8	1/2-14	1/2-14	1 1/8	1.87	5.0	6.0	3.2
3/4 x 1/4 FG	0201-12-4	1/4-18	3/4-14	1 3/8	1.75	4.0	4.8	2.6
3/4 x 3/8 FG	0201-12-6	3/8-18	3/4-14	1 3/8	1.75		4.8	
3/4 x 1/2 FG	0201-12-8	1/2-14	3/4-14	1 3/8	1.93	4.0	4.8	2.6
3/4 FG	0201-12-12	3/4-14	3/4-14	1 3/8	1.93	4.0	4.8	
1 x 1/4 FG	0201-16-4	1/4-18	1-11 1/2	1 5/8	2.01		3.6	
1 x 1/2 FG	0201-16-8	1/2-14	1-11 1/2	1 5/8	2.19	3.0	3.6	
1 x 3/4 FG	0201-16-12	3/4-14	1-11 1/2	1 5/8	2.19	3.0	3.6	
1 FG	0201-16-16	1-11 1/2	1-11 1/2	1 5/8	2.37		3.6	
1 1/4 x 1 FG	0201-20-16	1-11 1/2	1 1/4-11 1/2	2	2.47	2.5	3.0	
1 1/4 FG	0201-20-20	1 1/4-11 1/2	1 1/4-11 1/2	2	2.50	2.5		
1 1/2 x 1 FG	0201-24-16	1-11 1/2	1 1/2-11 1/2	2 3/8	2.47		2.4	
1 1/2 x 1 1/4 FG	0201-24-20	1 1/4-11 1/2	1 1/2-11 1/2	2 3/8	2.50	2.0		
2 FG	0201-32-32	2-11 1/2	2-11 1/2	2 7/8	2.66		2.4	

Hose  
**A**

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

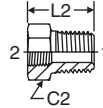
Adapters  
**E**

Accessories  
**F**

Appendices  
**G**



0102 (PTR)  
Pipe Thread Reducer  
NPTF / NPTF



SAE 140140

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		C2 HEX (in.)	L2 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 NPTF			-S	-SS	-B
		1/4 x 1/8 PTR	0102-4-2			1/4-18	1/8-27	5/8
3/8 x 1/8 PTR	0102-6-2	3/8-18	1/8-27	3/4	0.85	6.0	6.0	3.9
3/8 x 1/4 PTR	0102-6-4	3/8-18	1/4-18	3/4	0.85	6.0	6.0	3.9
1/2 x 1/8 PTR	0102-8-2	1/2-14	1/8-27	7/8	1.10	6.0	6.0	3.2
1/2 x 1/4 PTR	0102-8-4	1/2-14	1/4-18	7/8	1.10	6.0	6.0	3.2
1/2 x 3/8 PTR	0102-8-6	1/2-14	3/8-18	7/8	1.10	6.0	6.0	3.2
3/4 x 1/8 PTR	0102-12-2	3/4-14	1/8-27	1 1/8	1.17		6.0	
3/4 x 1/4 PTR	0102-12-4	3/4-14	1/4-18	1 1/8	1.17	5.5	6.0	3.7
3/4 x 3/8 PTR	0102-12-6	3/4-14	3/8-18	1 1/8	1.17	5.5	6.0	3.7
3/4 x 1/2 PTR	0102-12-8	3/4-14	1/2-14	1 1/8	1.17	5.0	6.0	3.3
1 x 1/8 PTR	0102-16-2	1-11 1/2	1/8-27	1 3/8	1.36		5.4	
1 x 1/4 PTR	0102-16-4	1-11 1/2	1/4-18	1 3/8	1.36	4.5	5.4	
1 x 3/8 PTR	0102-16-6	1-11 1/2	3/8-18	1 3/8	1.36	4.5	5.4	3.0
1 x 1/2 PTR	0102-16-8	1-11 1/2	1/2-14	1 3/8	1.36	4.5	5.4	3.0
1 x 3/4 PTR	0102-16-12	1-11 1/2	3/4-14	1 3/8	1.36	4.0	4.8	2.7
1 1/4 x 1/4 PTR	0102-20-4	1 1/4-11 1/2	1/4-18	1 3/4	1.47		3.6	
1 1/4 x 3/8 PTR	0102-20-6	1 1/4-11 1/2	3/8-18	1 3/4	1.47		3.6	
1 1/4 x 1/2 PTR	0102-20-8	1 1/4-11 1/2	1/2-14	1 3/4	1.47	3.0	3.6	
1 1/4 x 3/4 PTR	0102-20-12	1 1/4-11 1/2	3/4-14	1 3/4	1.47	3.0	3.6	
1 1/4 x 1 PTR	0102-20-16	1 1/4-11 1/2	1-11 1/2	1 3/4	1.47	3.0	3.6	
1 1/2 x 1/4 PTR	0102-24-4	1 1/2-11 1/2	1/4-18	2	1.52		3.6	
1 1/2 x 3/8 PTR	0102-24-6	1 1/2-11 1/2	3/8-18	2	1.57		3.6	
1 1/2 x 1/2 PTR	0102-24-8	1 1/2-11 1/2	1/2-14	2	1.57		3.6	
1 1/2 x 3/4 PTR	0102-24-12	1 1/2-11 1/2	3/4-14	2	1.57	3.0	3.6	
1 1/2 x 1 PTR	0102-24-16	1 1/2-11 1/2	1-11 1/2	2	1.57	3.0	3.6	
1 1/2 x 1 1/4 PTR	0102-24-20	1 1/2-11 1/2	1 1/4-11 1/2	2	1.57	2.5	3.0	
2 x 1/2 PTR	0102-32-8	2-11 1/2	1/2-14	2 1/2	1.75		2.4	
2 x 3/4	0102-32-12	2-11 1/2	3/4-14	2 1/2	1.75		2.4	
2 x 1 PTR	0102-32-16	2-11 1/2	1-11 1/2	2 1/2	1.75	2.0	2.4	
2 x 1 1/4 PTR	0102-32-20	2-11 1/2	1 1/4-11 1/2	2 1/2	1.75	2.0	2.4	
2 x 1 1/2 PTR	0102-32-24	2-11 1/2	1 1/2-11 1/2	2 1/2	1.75	2.0	2.4	

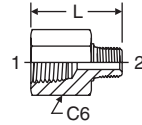
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



Hose  
A  
Fittings  
21 Series  
B  
Parkrimp  
Crimping  
Equipment  
C  
Hose  
Assembly  
Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G

### F3HG

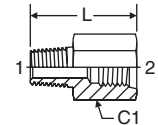
Conversion Adapter  
NPTF / BSPT



TUBE FITTING PART #	END SIZE		C6 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 NPTF	2 BSPT			-S	-SS	-B
	1/8X1/8F3HG	1/8-27					
1/4X1/4F3HG	1/4-18	1/4-19	3/4	1.37	6.0		
3/8X3/8F3HG	3/8-18	3/8-19	7/8	1.38	6.0		
1/2X1/2F3HG	1/2-14	1/2-14	1 1/8	1.88	5.0		
3/4X3/4F3HG	3/4-14	3/4-14	1 3/8	1.95	4.0		
1X1F3HG	1-11 1/2	1-11	1 5/8	2.38	3.0		

### F3HG5

Conversion Adapter  
BSPT / SAE-ORB

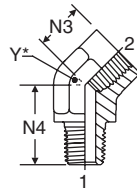


TUBE FITTING PART #	END SIZE		C1 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 BSPT	2 UN/UNF-2B			-S	-SS	-B
	1/8-4F3HG5	1/8-28					
1/8-5F3HG5	1/8-28	1/2-20	3/4	1.09	6.0		
1/4-6F3HG5	1/4-19	9/16-18	13/16	1.36	6.0	6.0	
3/8-8F3HG5	3/8-19	3/4-16	1	1.45	5.0	5.0	
1/2-10F3HG5	1/2-14	7/8-14	1.125	1.78	4.5	4.5	
3/4-12F3HG5	3/4-14	1 1/16-12	1.375	1.92	4.5	4.5	
1-16F3HG5	1-11	1 5/16-12	1.625	2.13	3.5	3.5	

### 3102 (CD45)

45° Street Elbow  
NPTF / NPTF

SAE 140339



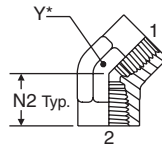
\* Y - Across Wrench Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		N3 (in.)	N4 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 NPTF				-S	-SS	-B
		1/8 CD45	3102-2-2						
1/4 CD45	3102-4-4	1/4-18	1/4-18	0.63	1.05	3/4	5.0	5.0	3.2
3/8 CD45	3102-6-6	3/8-18	3/8-18	0.72	1.06	7/8	4.5	4.5	2.9
1/2 CD45	3102-8-8	1/2-14	1/2-14	0.91	1.34	1 1/16	3.0	3.0	1.9
3/4 CD45	3102-12-12	3/4-14	3/4-14	0.97	1.38	1 5/16	3.0	3.0	1.9
1 CD45	3102-16-16	1-11 1/2	1-11 1/2	1.13	1.72	1 5/8	1.8	1.8	
1 1/4 CD45	3102-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.63	1.80	1 7/8	1.5	1.5	

### 4202 (DD45)

45° Female Pipe Elbow  
NPTF / NPTF

SAE 140338

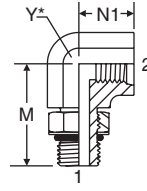


\* Y - Across Wrench Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		N2 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 NPTF			-S	-SS	-B
		1/4 DD45	4202-4-4					
3/8 DD45	4202-6-6	3/8-18	3/8-18	0.75	7/8	4.5		
1/2 DD45	4202-8-8	1/2-14	1/2-14	0.94	1 1/16	3.0		
3/4 DD45	4202-12-12	3/4-14	3/4-14	1.00	1 5/16	3.0		
1 DD45	4202-16-16	1-11 1/2	1-11 1/2	1.19	1 5/8	1.8		

## 2510 (AOEG5)

Straight Thread Elbow  
SAE-ORB / SAE-ORB

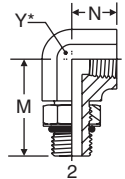


\* Y – Across Wrench Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 UN/UNF-2A	2 UN/UNF-2B				-S	-SS	-B
		4 AOEG5	2510-4-4				7/16-20	7/16-20	1.23
6 AOEG5	2510-6-6	9/16-18	9/16-18	1.38	0.75	7/8	5.0		
8 AOEG5	2510-8-8	3/4-16	3/4-16	1.59	0.88	1 1/16	5.0		
10 AOEG5	2510-10-10	7/8-14	7/8-14	1.81	1.02	1 1/16	4.5		
12 AOEG5	2510-12-12	1 1/16-12	1 1/16-12	2.00	1.21	1 5/16	3.0		
16 AOEG5	2510-16-16	1 5/16-12	1 5/16-12	2.26	1.33	1 5/8	3.0		

## 2502 (AOEG)

Female Pipe Elbow  
NPT / SAE-ORB

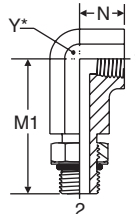


\* Y – Across Wrench Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 UN/UNF-2A				-S	-SS	-B
		6-1/4 AOEG	2502-6-4				1/4-18	9/16-18	1.34
8-3/8 AOEG	2502-8-6	3/8-18	3/4-16	1.47	0.63	7/8	4.5		
10-1/2 AOEG	2502-10-8	1/2-14	7/8-14	1.81	0.75	1 1/16	3.0		
12-3/4 AOEG	2502-12-12	3/4-14	1 1/16-12	2.00	0.81	1 5/16	3.0		
16-1 AOEG	2502-16-16	1-11 1/2	1 5/16-12	2.25	1.00	1 5/8	1.8		

## 5502 (AOE4G)

Extra Long Female Pipe Elbow  
NPT / SAE-ORB



\* Y – Across Wrench Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		M1 (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 UN/UNF-2A				-S	-SS	-B
		8-3/8 AOE4G	5502-8-6				3/8-18	3/4-16	2.94
10-1/2 AOE4G	5502-10-8	1/2-14	7/8-14	3.56	0.75	1 1/16	3.0		
12-3/4 AOE4G	5502-12-12	3/4-14	1 1/16-12	4.06	0.81	1 5/16	3.0		
16-1 AOE4G	5502-16-16	1-11 1/2	1 5/16-12	4.63	1.00	1 5/8	1.8		



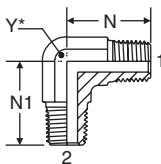
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose  
**A**

# CR

Male Pipe Elbow  
NPTF / NPTF

SAE 140237\*



\* Y – Across  
Wrench Flats

Fittings  
21 Series  
**B**

TUBE FITTING PART #	END SIZE		N (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1	2				-S	-SS	-B
	NPTF	NPTF						
1/8 CR	1/8-27	1/8-27	0.78	0.78	7/16	6.0	6.0	3.9
1/4 CR	1/4-18	1/4-18	1.09	1.09	9/16	6.0	6.0	3.9
3/8 x 1/4 CR	3/8-18	1/4-18	1.22	1.22	3/4	6.0	6.0	
3/8 CR	3/8-18	3/8-18	1.22	1.22	3/4	6.0	6.0	3.9
1/2 x 3/8 CR	1/2-14	3/8-18	1.47	1.28	7/8	6.0	6.0	
1/2 CR	1/2-14	1/2-14	1.47	1.47	7/8	6.0	6.0	3.9
3/4 x 1/2 CR	3/4-14	1/2-14	1.59	1.47	1 1/16	4.0		
3/4 CR	3/4-14	3/4-14	1.59	1.59	1 1/16	4.0	4.0	2.6
1 x 3/4 CR	1-11 1/2	3/4-14	1.97	1.78	1 5/16	3.0		
1 CR	1-11 1/2	1-11 1/2	1.97	1.97	1 5/8	3.0	3.0	
1 1/4 CR	1 1/4-11 1/2	1 1/4-11 1/2	2.22	2.22	1 7/8	2.5	2.5	
1 1/2 CR	1 1/2-11 1/2	1 1/2-11 1/2	2.34	2.34	1 7/8	2.5		

\* Not shown in SAE J514, but coded per SAE J846.

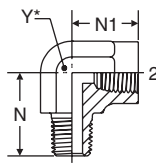
Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

# 2102 (CD)

Street Elbow  
NPTF / NPTF

SAE 140239



\* Y – Across  
Wrench Flats

Adapters  
**E**

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		N (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1	2				-S	-SS	-B
		NPTF	NPTF						
1/8 x 1/4 CD	2102-2-4	1/8-27	1/4-18	0.90	0.88	9/16	5.0	5.0	
1/8 CD	2102-2-2	1/8-27	1/8-27	0.78	0.66	9/16	5.0	5.0	3.2
1/4 x 1/8 CD	2102-4-2	1/4-18	1/8-27	1.09	0.66	9/16	5.0	5.0	
1/4 x 1/2 CD	2102-4-8	1/4-18	1/2-14	1.28	1.23	1 1/16			3.0
1/4 x 3/8 CD	2102-4-6	1/4-18	3/8-18	1.22	1.01	7/8	4.5	4.5	
1/4 CD	2102-4-4	1/4-18	1/4-18	1.09	0.88	3/4	5.0	5.0	3.2
3/8 x 1/4 CD	2102-6-4	3/8-18	1/4-18	1.22	0.88	3/4	5.0	5.0	
3/8 x 1/2 CD	2102-6-8	3/8-18	1/2-14	1.28	1.23	1 1/16	3.0	3.0	
3/8 CD	2102-6-6	3/8-18	3/8-18	1.22	1.02	7/8	4.5	4.5	3.0
1/2 x 3/8 CD	2102-8-6	1/2-14	3/8-18	1.48	1.25	7/8	4.5	4.5	
1/2 x 3/4 CD	2102-8-12	1/2-14	3/4-14	1.58	1.36	1 5/16	3.0	3.0	1.9
1/2 CD	2102-12-12	1/2-14	1/2-14	1.47	1.23	1 1/16	3.0	3.0	1.9
3/4 x 1/2 CD	2102-12-8	3/4-14	1/2-14	1.59	1.23	1 1/16	3.0	3.0	
3/4 CD	2102-12-12	3/4-14	3/4-14	1.59	1.36	1 5/16	3.0	3.0	1.9
1 CD	2102-16-16	1-11 1/2	1-11 1/2	1.97	1.63	1 5/8	1.8	1.8	1.2
1 1/4 x 1 1/2 CD	2102-20-24	1 1/4-11 1/2	1 1/2-11 1/2	2.61	2.08	2 1/2	1.5		
1 1/4 CD	2102-20-20	1 1/4-11 1/2	1 1/4-11 1/2	2.38	1.70	1 7/8	1.5	1.5	
1 1/2 CD	2102-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2.64	2.08	2 1/2	1.5	1.5	

Accessories  
**F**

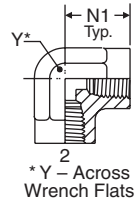
Appendices  
**G**



## 2202 (DD)

Female Pipe Elbow  
NPTF / NPTF

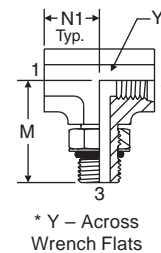
SAE 140238



TUBE FITTING PART #	HOSE FITTING PART #	END SIZE		N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
		1 NPTF	2 NPTF			-S	-SS	-B
1/8 DD	2202-2-2	1/8-27	1/8-27	0.66	9/16	5.0	5.0	3.2
1/4 DD	2202-4-4	1/4-18	1/4-18	0.88	3/4	5.0	5.0	3.2
3/8 DD	2202-6-6	3/8-18	3/8-18	1.02	7/8	4.5	4.5	3.0
1/2 x 3/8 DD	2202-8-6	1/2-14	3/8-18	1.23	1 1/16		3.0	
1/2 DD	2202-8-8	1/2-14	1/2-14	1.23	1 1/16	3.0	3.0	1.9
3/4 DD	2202-12-12	3/4-14	3/4-14	1.36	1 5/8	3.0	3.0	1.9
1 DD	2202-16-16	1-11 1/2	1-11 1/2	1.63	1 7/8	1.8	1.8	1.2
1 1/4 DD	2202-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.70	1 7/8	1.5	1.5	
1 1/2 DD	2202-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2 1/2	1.5	1.5	

## G5G5JAO

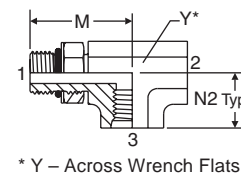
Straight Thread Branch Tee  
SAE-ORB (all three ends)



TUBE FITTING PART #	END SIZE			M (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 UN/UNF-2B	2 UN/UNF-2B	3 UN/UNF-2A				-S	-SS	-B
4 G5G5JAO	7/16-20	7/16-20	7/16-20	1.23	0.63	3/4	5.0		
6 G5G5JAO	9/16-18	9/16-18	9/16-18	1.38	0.75	7/8	5.0		
8 G5G5JAO	3/4-16	3/4-16	3/4-16	1.59	0.88	1 1/16	5.0		
10 G5G5JAO	7/8-14	7/8-14	7/8-14	1.81	1.02	1 1/16	4.5		
12 G5G5JAO	1 1/16-12	1 1/16-12	1 1/16-12	2.00	1.21	1 5/16	3.0		
16 G5G5JAO	1 5/16-12	1 5/16-12	1 5/16-12	2.25	1.33	1 5/8	3.0		

## AOG5JG5

Straight Thread Run Tee  
SAE-ORB (all three ends)

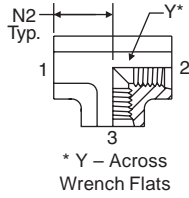


TUBE FITTING PART #	END SIZE			M (in.)	N2 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 UN/UNF-2A	2 UN/UNF-2B	3 UN/UNF-2B				-S	-SS	-B
4 AOG5JG5	7/16-20	7/16-20	7/16-20	1.23	0.74	3/4	5.0		
6 AOG5JG5	9/16-18	9/16-18	9/16-18	1.38	0.86	7/8	5.0		
8 AOG5JG5	3/4-16	3/4-16	3/4-16	1.59	1.03	1 1/16	5.0		
10 AOG5JG5	7/8-14	7/8-14	7/8-14	1.81	1.18	1 1/16	4.5		
12 AOG5JG5	1 1/16-12	1 1/16-12	1 1/16-12	2.00	1.39	1 5/16	3.0		
16 AOG5JG5	1 5/16-12	1 5/16-12	1 5/16-12	2.25	1.52	1 5/8	3.0		

Hose  
**A**

### G5G5JG5

Female Straight Thread Tee  
SAE-ORB (all three ends)



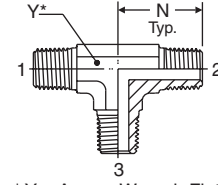
\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE 1 - 3 UN/UNF-2B	N2 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
				-S	-SS	-B
4 G5G5JG5	7/16-20	0.74	3/4	5.0		
6 G5G5JG5	9/16-18	0.86	3/4	5.0		
8 G5G5JG5	3/4-16	1.03	1 1/16	5.0		
10 G5G5JG5	7/8-14	1.18	1 1/16	4.5		
12 G5G5JG5	1 1/16-12	1.39	1 5/16	3.0		
16 G5G5JG5	1 5/16-12	1.52	1 5/8	3.0		

Fittings  
21 Series  
**B**

### RRS

Male Pipe Tee  
NPTF (all three ends)



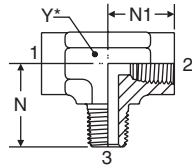
\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE 1 - 3 NPTF	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
				-S	-SS	-B
1/8 RRS	1/8-27	0.78	7/16	6.0	6.0	3.9
1/4 RRS	1/4-18	1.09	9/16	6.0	6.0	3.9
3/8 RRS	3/8-18	1.22	3/4	6.0	6.0	3.9
1/2 RRS	1/2-14	1.47	7/8	6.0	6.0	3.9
3/4 RRS	3/4-14	1.59	1 1/16	4.0	4.0	

Parkrimp  
Crimping  
Equipment  
**C**

### 212T (MMS)

Male Branch Tee  
NPTF (all three ends)



\* Y – Across Wrench Flats

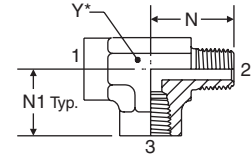
SAE 140425

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1 - 3 NPTF	N (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
						-S	-SS	-B
1/8 MMS	212T-2-2	1/8-27	0.78	0.66	9/16	5.0	5.0	3.2
1/4 MMS	212T-4-4	1/4-18	1.09	0.88	3/4	5.0	5.0	3.2
3/8 MMS	212T-6-6	3/8-18	1.22	1.02	7/8	4.5	4.5	3.0
1/2 MMS	212T-8-8	1/2-14	1.47	1.23	1 1/16	3.0	3.0	1.9
3/4 MMS	212T-12-12	3/4-14	1.59	1.36	1 5/16	3.0	3.0	
1 MMS	212T-16-16	1-11 1/2	1.97	1.62	1 5/8	1.8	1.8	

Hose  
Assembly  
Equipment  
**D**

### 012T (MRO)

Male Run Tee  
NPTF (all three ends)



\* Y – Across Wrench Flats

SAE 140424

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1 - 3 NPTF	N (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
						-S	-SS	-B
1/8 MRO	012T-2-2	1/8-27	0.78	0.66	9/16	5.0	5.0	3.2
1/4 MRO	012T-4-4	1/4-18	1.09	0.88	3/4	5.0	5.0	3.2
3/8 MRO	012T-6-6	3/8-18	1.22	1.02	7/8	4.5	4.5	3.0
1/2 MRO	012T-8-8	1/2-14	1.47	1.23	1 1/16	3.0	3.0	1.9
3/4 MRO	012T-12-12	3/4-14	1.59	1.36	1 5/16	3.0	3.0	
1 MRO	012T-16-16	1-11 1/2	1.97	1.63	1 5/8	1.8	1.8	
1 1/4 MRO	012T-20-20	1 1/4-11 1/2	2.38	1.70	1 7/8	1.5	1.5	
1 1/2 MRO	012T-24-24	1 1/2-11 1/2	2.64	2.08	2 1/2	1.5	1.5	

Adapters  
**E**

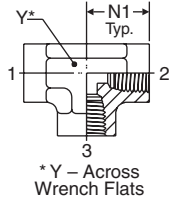
Accessories  
**F**

Appendices  
**G**

### 022T (MMO)

Female Pipe Tee  
NPTF (all three ends)

SAE 140438



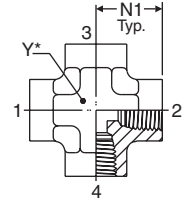
\* Y – Across Wrench Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE NPTF	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					-S	-SS	-B
1/8 MMO	022T-2-2	1/8-27	0.66	9/16	5.0	5.0	3.2
1/4 MMO	022T-4-4	1/4-18	0.88	3/4	5.0	5.0	3.2
3/8 MMO	022T-6-6	3/8-18	1.02	7/8	4.5	4.5	3.0
1/2 MMO	022T-8-8	1/2-14	1.23	1 1/16	3.0	3.0	1.9
3/4 MMO	022T-12-12	3/4-14	1.36	1 5/16	3.0	3.0	1.9
1 MMO	022T-16-16	1-11 1/2	1.63	1 5/8	1.8	1.8	1.2
1 1/4 MMO	022T-20-20	1 1/4-11 1/2	1.70	1 7/8	1.5	1.5	1.5
1 1/2 MMO	022T-24-24	1 1/2-11 1/2	2.08	2 1/2	1.5	1.5	1.5

### 022X (KMMOO)

Female Pipe Cross  
NPTF (all four ends)

SAE 140538



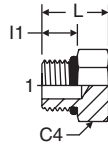
\* Y – Across Wrench Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE NPTF	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					-S	-SS	-B
1/8 KMMOO	022X-2	1/8-27	0.66	9/16	5.0	5.0	3.2
1/4 KMMOO	022X-4	1/4-18	0.88	3/4	5.0	5.0	3.2
3/8 KMMOO	022X-6	3/8-18	1.02	7/8	4.5	4.5	3.0
1/2 KMMOO	022X-8	1/2-14	1.23	1 1/16	3.0	3.0	1.9
3/4 KMMOO	022X-12	3/4-14	1.36	1 5/16	3.0	3.0	1.9
1 KMMOO	022X-16	1-11 1/2	1.63	1 5/8	1.8	1.8	1.2

### 05CP (P5ON)

Hex Head Plug  
SAE-ORB

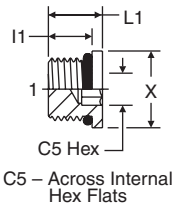
SAE 090109A



### 05HP (HP5ON)

Hollow Hex Plug  
SAE-ORB

SAE 090109B



C5 – Across Internal Hex Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1 UN/UNF-2A	C4 HEX (in.)	I 1 (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
						-S	-SS	-B
2 P5ON	05CP-2	5/16-24	7/16	0.30	0.61	7.5	9.0	
3 P5ON	05CP-3	3/8-24	1/2	0.30	0.61	7.5	9.0	
4 P5ON	05CP-4	7/16-20	9/16	0.36	0.67	7.5	9.0	
5 P5ON	05CP-5	1/2-20	5/8	0.36	0.67	6.0	7.2	
6 P5ON	05CP-6	9/16-18	11/16	0.39	0.73	6.0	7.2	
8 P5ON	05CP-8	3/4-16	7/8	0.44	0.80	6.0	7.2	
10 P5ON	05CP-10	7/8-14	1	0.50	0.94	6.0	7.2	
12 P5ON	05CP-12	1 1/16-12	1 1/4	0.59	1.09	6.0	7.2	
14 P5ON	05CP-14	1 3/16-12	1 3/8	0.59	1.09	5.5	5.5	
16 P5ON	05CP-16	1 5/16-12	1 1/2	0.59	1.13	5.5	6.6	
20 P5ON	05CP-20	1 5/8-12	1 7/8	0.59	1.20	4.0	4.8	
24 P5ON	05CP-24	1 7/8-12	2 1/8	0.59	1.27	3.0	3.6	
32 P5ON	05CP-32	2 1/2-12	2 3/4	0.59	1.44	2.0	2.4	

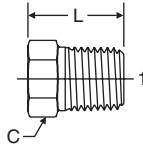
TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1 UN/UNF-2A	C5 HEX (in.)	I 1 (in.)	L1 (in.)	X DIA. (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
							-S	-SS	-B
2 HP5ON	05HP-2	5/16-24	1/8	0.30	0.40	0.44	6.0	6.0	
3 HP5ON	05HP-3	3/8-24	1/8	0.30	0.40	0.50	6.0	6.0	
4 HP5ON	05HP-4	7/16-20	3/16	0.36	0.47	0.56	6.0	6.0	
5 HP5ON	05HP-5	1/2-20	3/16	0.36	0.47	0.63	6.0	6.0	
6 HP5ON	05HP-6	9/16-18	1/4	0.40	0.50	0.69	6.0	6.0	
8 HP5ON	05HP-8	3/4-16	5/16	0.44	0.58	0.88	6.0	6.0	
10 HP5ON	05HP-10	7/8-14	3/8	0.50	0.65	1.00	6.0	6.0	
12 HP5ON	05HP-12	1 1/16-12	9/16	0.59	0.77	1.25	6.0	6.0	
14 HP5ON	05HP-14	1 3/16-12	9/16	0.59	0.77	1.38	5.5	5.5	
16 HP5ON	05HP-16	1 5/16-12	5/8	0.59	0.77	1.50	5.5	5.5	
20 HP5ON	05HP-20	1 5/8-12	3/4	0.59	0.77	1.88	4.0	4.0	
24 HP5ON	05HP-24	1 7/8-12	3/4	0.59	0.77	2.13	3.0	3.0	
32 HP5ON	05HP-32	2 1/2-12	3/4	0.59	0.77	2.75	2.0	2.0	

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



Hose  
**A**

**01CP (HP)**  
Hex Head Pipe Plug  
NPTF

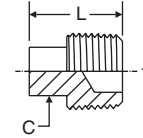


SAE 130109E

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1 NPTF	C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					-S	-SS	-B
					1/8 HP	01CP-2	1/8-27
1/4 HP	01CP-4	1/4-18	9/16	0.75	6.0	7.2	3.9
3/8 HP	01CP-6	3/8-18	11/16	0.78	6.0	7.2	3.9
1/2 HP	01CP-8	1/2-14	7/8	0.97	6.0	7.2	3.9
3/4 HP	01CP-12	3/4-14	1 1/16	1.06	5.5	6.6	3.5
1 HP	01CP-16	1-11 1/2	1 5/16	1.25	4.5	5.4	3.0
1 1/4 HP	01CP-20	1 1/4-11 1/2	1 3/4	1.41	3.0	3.6	
1 1/2 HP	01CP-24	1 1/2-11 1/2	2	1.50	3.0	3.6	
2 HP	01CP-32	2-11 1/2	2 1/2	1.69	2.0	3.0	

Fittings  
21 Series  
**B**

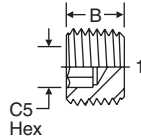
**SHP**  
Square Head Plug  
NPTF



TUBE FITTING PART #	END SIZE 1 NPTF	C SQUARE (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
				-S	-SS	-B
				1/8 SHP	1/8-27	9/32
1/4 SHP	1/4-18	3/8	0.75	6.0		
3/8 SHP	3/8-18	7/16	0.83	6.0		
1/2 SHP	1/2-14	9/16	1.08	6.0		
3/4 SHP	3/4-14	5/8	1.14	5.5		
1 SHP	1-11 1/2	13/16	1.38	4.5		

Parkrimp Crimping Equipment  
**C**

**01HP (HHP)**  
Hollow Hex Pipe Plug  
NPTF

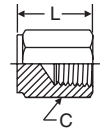


SAE 130109N

C5 - Across Internal Hex Flats

TUBE FITTING PART #	HOSE FITTING PART #	END SIZE 1 NPTF	B (in.)	C5 INTERNAL HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					-S	-SS	-B
					1/16 HHP	01HP-1	1/16-27
1/8 HHP	01HP-2	1/8-27	0.30	3/16	6.0	7.2	3.9
1/4 HHP	01HP-4	1/4-18	0.46	1/4	6.0	7.2	3.9
3/8 HHP	01HP-6	3/8-18	0.46	5/16	6.0	7.2	
1/2 HHP	01HP-8	1/2-14	0.61	3/8	6.0		
3/4 HHP	01HP-10	3/4-14	0.62	9/16	5.5	6.6	
1 HHP	01HP-16	1-11 1/2	0.77	5/8	4.5	5.4	
1 1/4 HHP	01HP-20	1 1/4-11 1/2	0.77	3/4	3.0		
1 1/2 HHP	01HP-24	1 1/2-11 1/2	0.83	3/4	3.0		

**HPC**  
Hex Pipe Cap  
NPTF

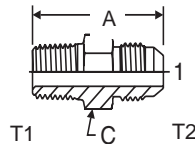


TUBE FITTING PART #	END SIZE 1 NPTF	C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
				-S	-SS	-B
				1/8 HPC	1/8-27	9/16
1/4 HPC	1/4-18	3/4	.91	6.0		
3/8 HPC	3/8-18	7/8	1.03	6.0		
1/2 HPC	1/2-14	1 1/16	1.34	6.0		
3/4 HPC	3/4-14	1 1/4	1.44	4.8		
1 HPC	1-11 1/2	1 5/8	1.68	3.6		
1 1/2 HPC	1 1/2-11 1/2	2 3/8	1.92	2.4		

Hose Assembly Equipment  
**D**

Adapters  
**E**

**1404 -**  
Power Steering Adapter  
SAE 040105  
Male SAE 45° Flare -  
Male Inverted Rigid



# Part Number	Thread		A	
	T1 Pipe	T2 Straight	inch	mm
	1404-4-4B	7/16x24	7/16x20	1/4
1404-5-5B	1/2x20	1/2x20	5/16	1.25 32
1404-5-6B	1/2x20	5/8x18	3/8	1.34 34
1404-6-6B	5/8x18	5/8x18	3/8	1.34 34
1404-7-6B	11/16x18	5/8x18	3/8	1.37 35
1404-8-8B	3/4x18	3/8x16	1/2	1.63 41

Accessories  
**F**

Appendices  
**G**

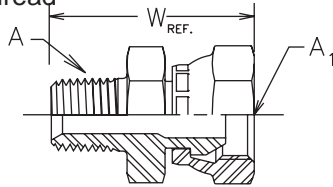


### Male Pipe Adapter

#### 0107

NPSM swivel / male pipe thread  
SAE 140130

All dimensions are in inches



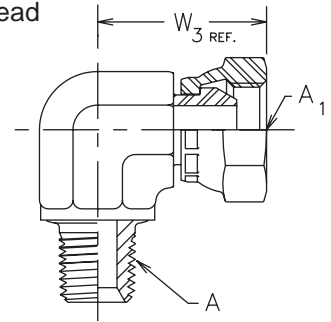
TUBE FITTING PART #	PIPE SIZE	A PIPE THD NPTF	A1 SWIVEL THD NPSM	W
0107-2-2	1/8	1/8-27	1/8-27	1.09
0107-2-4	1/8	1/8-27	1/4-18	1.24
0107-4-4	1/4	1/4-18	1/4-18	1.43
0107-4-6	1/4	1/4-18	3/8-18	1.45
0107-4-8	1/4	1/4-18	1/2-14	1.44
0107-6-4	3/8	3/8-18	1/4-18	1.49
0107-6-6	3/8	3/8-18	3/8-18	1.51
0107-6-8	3/8	3/8-18	1/2-14	1.73
0107-8-6	1/2	1/2-14	3/8-18	1.70
0107-8-8	1/2	1/2-14	1/2-14	1.91
0107-8-12	1/2	1/2-14	3/4-14	2.04
0107-12-8	3/4	3/4-14	1/2-14	1.91
0107-12-12	3/4	3/4-14	3/4-14	2.04
0107-12-16	3/4	3/4-14	1-11 1/2	2.17
0107-16-12	1	1-11 1/2	3/4-14	2.29
0107-16-16	1	1-11 1/2	1-11 1/2	2.37
0107-16-20	1	1-11 1/2	1 1/4-11 1/2	2.38
0107-20-16	1 1/4	1 1/4-11 1/2	1-11 1/2	2.46
0107-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.47
0107-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.61
0107-32-32	2	2-11 1/2	2-11 1/2	2.80

### Male Pipe Elbow

#### 2107

NPSM swivel / male pipe thread  
SAE 140230

All dimensions are in inches



TUBE FITTING PART #	PIPE SIZE	A PIPE THD NPTF	A1 SWIVEL THD NPSM	W3
2107-2-2	1/8	1/8-27	1/8-27	0.85
2107-4-4	1/4	1/4-18	1/4-18	1.06
2107-4-6	1/4	1/4-18	3/8-1/8	1.28
2107-6-4	3/8	3/8-18	1/4-18	1.17
2107-6-6	3/8	3/8-18	3/8-1/8	1.28
2107-6-8	3/8	3/8-18	1/2-14	1.33
2107-8-6	1/2	1/2-14	3/8-1/8	1.35
2107-8-8	1/2	1/2-14	1/2-14	1.40
2107-8-12	1/2	1/2-14	3/4-14	1.65
2107-12-6	3/4	3/4-14	3/8-1/8	1.48
2107-12-8	3/4	3/4-14	1/2-14	1.53
2107-12-12	3/4	3/4-14	3/4-14	1.65
2107-16-12	1	1-11 1/2	3/4-14	1.82
2107-16-16	1	1-11 1/2	1-11 1/2	1.91
2107-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.11
2107-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.31
2107-32-32	2	2-11 1/2	2-11 1/2	2.70

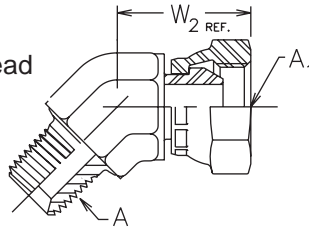
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

### 45° Male Pipe Elbow

3107

NPSM swivel / male pipe thread  
SAE 140330

All dimensions are in inches



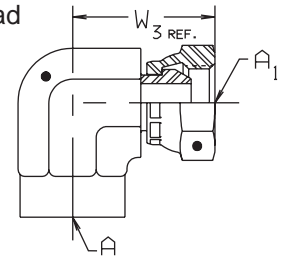
TUBE FITTING PART #	PIPE SIZE	A PIPE THD NPTF	A1 SWIVEL THD NPSM	W2
3107-2-2	1/8	1/8-27	1/8-27	0.77
3107-4-4	1/4	1/4-18	1/4-18	0.91
3107-6-6	3/8	3/8-18	3/8-18	1.10
3107-8-6	1/2	1/2-14	3/8-18	1.10
3107-8-8	1/2	1/2-14	1/2-14	1.17
3107-8-12	1/2	1/2-14	3/4-14	1.22
3107-12-8	3/4	3/4-14	1/2-14	1.23
3107-12-12	3/4	3/4-14	3/4-14	1.37
3107-16-12	1	1-11 1/2	3/4-14	1.47
3107-16-16	1	1-11 1/2	1-11 1/2	1.52
3107-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.61
3107-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.77
3107-32-32	2	2-11 1/2	2-11 1/2	1.89

### 90° Female Pipe Elbow

2207

NPSM swivel / female pipe thread  
SAE 140231

All dimensions are in inches



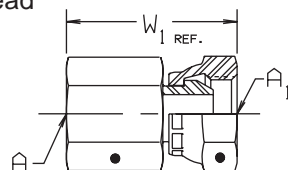
TUBE FITTING PART #	PIPE SIZE	A PIPE THD NPTF	A1 SWIVEL THD NPSM	W3
2207-2-2	1/8	1/8-27	1/8-27	0.95
2207-4-4	1/4	1/4-18	1/4-18	1.17
2207-6-6	3/8	3/8-18	3/8-18	1.26
2207-8-8	1/2	1/2-14	1/2-14	1.53
2207-12-12	3/4	3/4-14	3/4-14	1.82
2207-16-16	1	1-11 1/2	1-11 1/2	2.10
2207-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.21
2207-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.83
2207-32-32	2	2-11 1/2	2-11 1/2	3.00

### Female Pipe Adapter

0207

NPSM swivel / female pipe thread  
SAE 140131

All dimensions are in inches



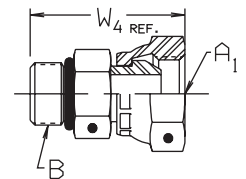
TUBE FITTING PART #	PIPE SIZE	A PIPE THD NPTF	A1 SWIVEL THD NPSM	W1
0207-2-2	1/8	1/8-27	1/8-27	1.02
0207-4-4	1/4	1/4-18	1/4-18	1.43
0207-6-4	3/8	3/8-18	1/4-18	1.49
0207-6-6	3/8	3/8-18	3/8-18	1.51
0207-8-6	1/2	1/2-14	3/8-18	1.65
0207-8-8	1/2	1/2-14	1/2-14	1.79
0207-12-12	3/4	3/4-14	3/4-14	1.97
0207-16-16	1	1-11 1/2	1-11 1/2	2.37
0207-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.38
0207-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.42
0207-32-32	2	2-11 1/2	2-11 1/2	2.55

### Straight Thread Adapter

0507

NPSM swivel / SAE O-ring boss  
SAE 140157

All dimensions are in inches



TUBE FITTING PART #	PORT SIZE	B PORT THD UN/UNF-2A	A1 SWIVEL THD NPSM	W4
0507-4-4	4	7/16-20	1/4-18	1.32
0507-6-4	6	9/16-18	1/4-18	1.35
0507-6-6	6	9/16-18	3/8-18	1.37
0507-6-8	6	9/16-18	1/2-14	1.57
0507-8-4	8	3/4-16	1/4-18	1.43
0507-8-6	8	3/4-16	3/8-18	1.45
0507-8-8	8	3/4-16	1/2-14	1.56
0507-8-12	8	3/4-16	3/4-14	1.79
0507-10-8	10	7/8-14	1/2-14	1.73
0507-12-8	12	1 1/16-12	1/2-14	1.88
0507-12-12	12	1 1/16-12	3/4-14	1.97
0507-16-16	16	1 5/16-12	1-11 1/2	2.12
0507-20-20	20	1 5/8-12	1 1/4-11 1/2	2.21
0507-24-24	24	1 7/8-12	1 1/2-11 1/2	2.39
0507-32-32	32	2 1/2-12	2-11 1/2	2.49

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

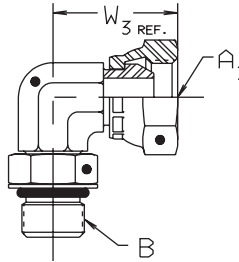
Appendices  
G

### 90° Straight Thread Adapter

#### 2507

NPSM swivel / SAE O-ring boss  
SAE 140257

All dimensions are in inches



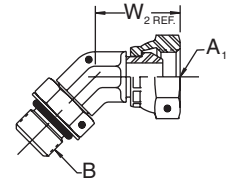
TUBE FITTING PART #	PORT SIZE	B PORT THD UN/UNF-2A	A1 SWIVEL THD NPSM	W3
2507-4-4	4	7/16-20	1/4-18	0.97
2507-6-4	6	9/16-18	1/4-18	1.06
2507-6-6	6	9/16-18	3/8-18	1.10
2507-6-8	6	9/16-18	1/2-14	1.33
2507-8-6	8	3/4-16	3/8-18	1.19
2507-8-8	8	3/4-16	1/2-14	1.33
2507-8-12	8	3/4-16	3/4-14	1.65
2507-10-6	10	7/8-14	3/8-18	1.26
2507-10-8	10	7/8-14	1/2-14	1.40
2507-10-12	10	7/8-14	3/4-14	1.62
2507-12-8	12	1 1/16-12	1/2-14	1.50
2507-12-12	12	1 1/16-12	3/4-14	1.65
2507-16-16	16	1 5/16-12	1-11 1/2	1.91
2507-20-20	20	1 5/8-12	1 1/4-11 1/2	2.16
2507-24-24	24	1 7/8-12	1 1/2-11 1/2	2.31

### 45° Straight Thread Adapter

#### 3507

NPSM swivel / SAE O-ring boss  
SAE 140357

All dimensions are in inches



TUBE FITTING PART #	PORT SIZE	B PORT THD UN/UNF-2A	A1 SWIVEL THD NPSM	W2
3507-4-4	4	7/16-20	1/4-18	0.79
3507-6-6	6	9/16-18	3/8-18	1.03
3507-8-6	8	3/4-16	3/8-18	1.02
3507-8-8	8	3/4-16	1/2-14	1.18
3507-8-12	8	3/4-16	3/4-14	1.37
3507-10-8	10	7/8-14	1/2-14	1.17
3507-12-12	12	1 1/16-12	3/4-14	1.37
3507-16-16	16	1 5/16-12	1-11 1/2	1.52

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Hose  
**A**

Fittings  
**B**


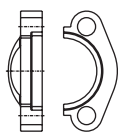

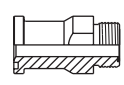
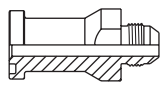
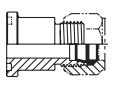
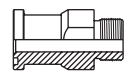

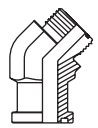
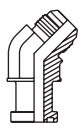
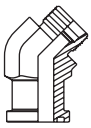
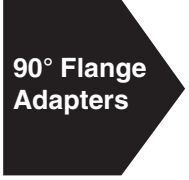

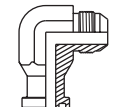
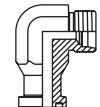

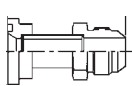
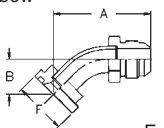
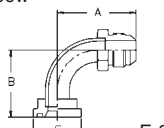
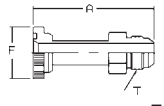
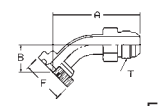
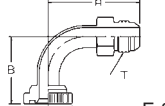
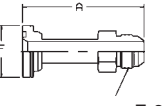
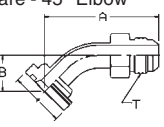
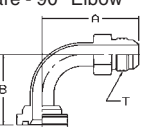

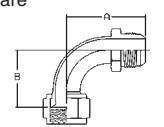
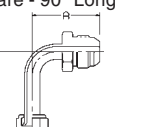

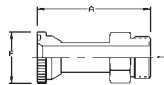
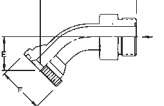
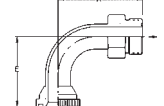
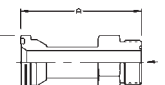
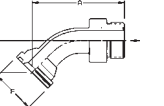
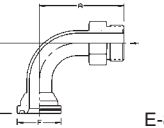
Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

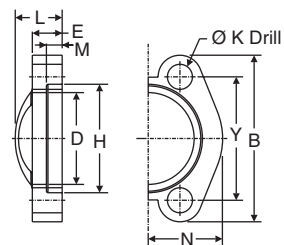
Accessories  
**F**

Appendices  
**G**

	<p><b>FCS</b> Flange Clamps – Split</p>  <p>E-77</p>		<p><b>LOHQ</b> Code 61, 62 / ORFS</p>  <p>E-77</p>	<p><b>XHQ</b> Code 61, 62 / 37° Flare</p>  <p>E-78</p>	<p><b>BUHQ1</b> Code 61 / Flareless</p>  <p>E-78</p>
<p><b>F5OHQ</b> Code 61, 62 / SAE-ORB</p>  <p>E-78</p>		<p><b>LOVQ</b> Code 61, 62 / ORFS</p>  <p>E-79</p>	<p><b>XVQ</b> Code 61, 62 / 37° Flare</p>  <p>E-79</p>	<p><b>BUVQ1</b> Code 61 / Flareless</p>  <p>E-79</p>	
	<p><b>LOEQ</b> Code 61, 62 / ORFS</p>  <p>E-80</p>	<p><b>XEQ</b> Code 61, 62 / 37° Flare</p>  <p>E-80</p>	<p><b>BUEQ1</b> Code 61 / Flareless</p>  <p>E-80</p>		<p><b>15T3</b> Code 61 / 37° Flare</p>  <p>E-81</p>
<p><b>17T3</b> Code 61 / 37° Flare - 45° Elbow</p>  <p>E-81</p>	<p><b>19T3</b> Code 61 / 37° Flare - 90° Elbow</p>  <p>E-81</p>	<p><b>4AH3</b> Code 61(5000psi) to 37° Flare</p>  <p>E-82</p>	<p><b>4FH3</b> Code 61(5000psi) to 37° Flare - 45° Elbow</p>  <p>E-82</p>	<p><b>4NH3</b> Code 61(5000psi) to 37° Flare - 90° Elbow</p>  <p>E-82</p>	<p><b>6AH3</b> SAE Code 62 Flange - Male SAE (JIC) 37° Flare</p>  <p>E-83</p>
<p><b>6FH3</b> Code 62 Flange to 37° Flare - 45° Elbow</p>  <p>E-83</p>	<p><b>6NH3</b> Code 62 Flange to 37° Flare - 90° Elbow</p>  <p>E-83</p>		<p><b>39T3</b> Female Swivel - Male Flare</p>  <p>E-81</p>	<p><b>41T3</b> Female Swivel - Male Flare - 90° Long</p>  <p>E-81</p>	
	<p><b>4AJM</b> Code 61 Flange - Male Seal-Lok - Straight</p>  <p>E-84</p>	<p><b>4FJM</b> Code 61 Flange - Male Seal-Lok - 45° Elbow</p>  <p>E-84</p>	<p><b>4NJM</b> Code 61 Flange - Male Seal-Lok - 90° Elbow</p>  <p>E-84</p>	<p><b>6AJM</b> Code 62 Flange - Male Seal-Lok - Straight</p>  <p>E-85</p>	<p><b>6FJM</b> Code 62 Flange - Male Seal-Lok - 45° Elbow</p>  <p>E-85</p>
<p><b>6NJM</b> Code 62 Flange - Male Seal-Lok - 90° Elbow</p>  <p>E-85</p>					

# FCS

Code 61/62 Flange Clamps, Split

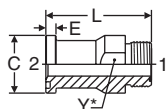


TUBE FITTING PART #	HOSE PRODUCTS PART #	HOSE PRODUCTS PART #	FLANGE SIZE (in.)	B (in.)	D (in.)	E (in.)	H (in.)	K DRILL DIA. (in.)	L (in.)	M (in.)	N (in.)	Y (in.)	MOUNTING HARDWARE	STANDARD Dynamic Pressure (x 1,000 PSI)	
														HHCS	S
<b>CODE 61 FLANGE CLAMPS, SPLIT</b>															
8FCS1	51H-8	5151HK-8	0.50	2.12	0.96	0.50	1.22	0.344	0.75	0.245	0.86	1.50	5/16-18 x 1.25	5.0	5.0
12FCS1	51H-12	5151HK-12	0.75	2.56	1.27	0.56	1.53	0.406	0.88	0.245	0.98	1.88	3/8-16 x 1.25	5.0	5.0
16FCS1	51H-16	5151HK-16	1.00	2.75	1.52	0.62	1.78	0.406	0.94	0.295	1.11	2.06	3/8-16 x 1.25	5.0	5.0
20FCS1	51H-20	5151HK-20	1.25	3.12	1.72	0.56	2.03	0.469	0.88	0.295	1.39	2.31	7/16-14 x 1.50	4.0	4.0
24FCS1	51H-24	5151HK-24	1.50	3.69	2.00	0.62	2.41	0.531	1.00	0.295	1.58	2.75	1/2-13 x 1.50	3.0	3.0
32FCS1	51H-32	5151HK-32	2.00	4.00	2.47	0.62	2.84	0.531	1.03	0.355	1.86	3.06	1/2-13 x 1.50	3.0	3.0
40FCS1	51H-40	5151HK-40	2.50	4.50	2.95	0.75	3.34	0.531	1.50	0.355	2.09	3.50	1/2-13 x 1.75	2.5	2.5
48FCS1	51H-48	5151HK-48	3.00	5.31	3.58	0.88	4.03	0.656	1.62	0.355	2.53	4.19	5/8-11 x 1.75	2.0	2.0
56FCS1	51H-56	5151HK-56	3.50	6.00	4.03	0.88	4.53	0.656	1.12	0.422	2.70	4.75	5/8-11 x 1.75	0.5	0.5
64FCS1	51H-64	5151HK-64	4.00	6.38	4.53	1.00	5.03	0.656	1.38	0.422	2.95	5.13	5/8-11 x 2.00	0.5	0.5
<b>CODE 62 FLANGE CLAMPS, SPLIT</b>															
12FCS2	HFH-12	HFHFHK-12	0.75	2.81	1.28	0.75	1.66	0.406	1.12	0.325	1.14	2.00	3/16-16 x 1.50	6.0	6.0
16FCS2	HFH-16	HFHFHK-16	1.00	3.19	1.53	0.94	1.91	0.469	1.31	0.355	1.33	2.25	7/16-14 x 1.75	6.0	6.0
20FCS2	HFH-20	HFHFHK-20	1.25	3.75	1.75	1.06	2.16	0.531	1.50	0.385	1.48	2.63	1/2-13 x 1.75	6.0	6.0
24FCS2	HFH-24	HFHFHK-24	1.50	4.44	2.03	1.19	2.53	0.656	1.69	0.475	1.83	3.13	5/8-11 x 2.25	6.0	6.0
32FCS2	HFH-32	HFHFHK-32	2.00	5.25	2.66	1.44	3.16	0.781	2.06	0.475	2.20	3.81	3/4-10 x 2.75	6.0	6.0

To order a flange clamp split kit, insert a "K" after the material designator in the Tube Fitting part number. The Kit includes two flange clamp halves, 4 HHCS bolts, 4 lock washers and an O-ring.

## LOHQ1

Code 61 Flange Connector  
Code 61 / ORFS

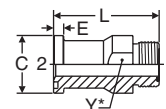


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	L (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 Code 61					
12 LOHQ1	3/4	3/4	1.500	0.265	2.74	1 3/8	5.0
16 LOHQ1	1	1	1.750	0.315	2.81	1 5/8	5.0
20 LOHQ1	1 1/4	1 1/4	2.000	0.315	3.21	1 3/4	4.0
24 LOHQ1	1 1/2	1 1/2	2.375	0.315	3.29	2 1/8	3.0

## LOHQ2

Code 62 Flange Connector  
Code 62 / ORFS



\* Y – Across Wrench Flats

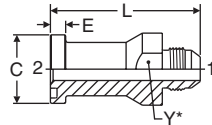
TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	L (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 Code 62					
12 LOHQ2	3/4	3/4	1.625	0.345	3.02	1 3/8	6.0
12-16 LOHQ2	3/4	1	1.875	0.375	3.34	1 5/8	6.0
16 LOHQ2	1	1	1.875	0.375	3.36	1 5/8	6.0
20 LOHQ2	1 1/4	1 1/4	2.125	0.405	3.48	1 3/4	5.0
24 LOHQ2	1 1/2	1 1/2	2.500	0.495	4.14	2 1/8	4.5

A	Hose
B	Fittings 21 Series
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices

Hose  
A  
Fittings  
21 Series  
B  
Parkrimp  
Crimping  
Equipment  
C  
Hose  
Assembly  
Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G

### XHQ1

Code 61 Flange Connector  
Code 61 / 37° Flare

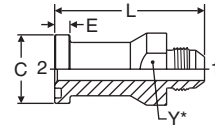


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	L (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 (in.)	2 Code 61					
12 XHQ1	3/4	3/4	1.500	0.265	2.77	1 3/8	5.0
16 XHQ1	1	1	1.750	0.315	2.91	1 5/8	5.0
20 XHQ1	1 1/4	1 1/4	2.000	0.315	3.36	1 7/8	4.0
24 XHQ1	1 1/2	1 1/2	2.375	0.315	3.57	2 1/8	3.0
32 XHQ1	2	2	2.812	0.375	4.04	2 5/8	3.0

### XHQ2

Code 62 Flange Connector  
Code 62 / 37° Flare

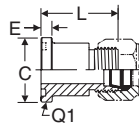


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	L (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 (in.)	2 Code 62					
12 XHQ2	3/4	3/4	1.625	0.345	3.08	1 3/8	5.0
16 XHQ2	1	1	1.875	0.375	3.43	1 5/8	5.0
20 XHQ2	1 1/4	1 1/4	2.125	0.405	3.60	1 7/8	4.0
24 XHQ2	1 1/2	1 1/2	2.500	0.495	4.34	2 1/8	3.0

### BUHQ1

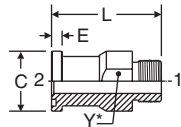
Code 61 Connector  
Code 61 / Flareless



TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 (in.)	2 Code 61				
12 BUHQ1	3/4	3/4	1.500	0.265	1.82	5.0
16 BUHQ1	1	1	1.750	0.315	1.88	5.0
20 BUHQ1	1 1/4	1 1/4	2.000	0.315	1.82	4.0
24 BUHQ1	1 1/2	1 1/2	2.375	0.315	1.94	3.0
32 BUHQ1	2	2	2.812	0.375	1.97	3.0

### F5OHQ1

Code 61 Connector  
Code 61 / SAE-ORB

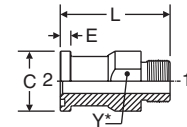


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	L (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 (in.)	2 Code 61					
12 F5OHQ1	3/4	3/4	1.500	0.265	2.63	1 3/8	5.0
16 F5OHQ1	1	1	1.750	0.315	2.73	1 5/8	4.5
20 F5OHQ1	1 1/4	1 1/4	2.000	0.315	3.13	1 7/8	4.0
24 F5OHQ1	1 1/2	1 1/2	2.375	0.315	3.22	2 1/8	3.0
32 F5OHQ1	2	2	2.812	0.375	3.49	2 3/4	3.0

### F5OHQ2

Code 62 Connector  
Code 62 / SAE-ORB

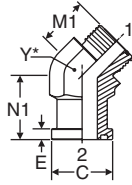


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	L (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 (in.)	2 Code 62					
12 F5OHQ2	3/4	3/4	1.625	0.345	3.08	1 3/8	6.0
16 F5OHQ2	1	1	1.875	0.375	3.25	1 5/8	5.5
20 F5OHQ2	1 1/4	1 1/4	2.125	0.405	3.37	1 7/8	4.5
24 F5OHQ2	1 1/2	1 1/2	2.500	0.495	3.99	2 1/8	4.0
32 F5OHQ2	2	2	3.125	0.495	4.86	2 3/4	3.0

### LOVQ1

Code 61 Flange 45° Elbow  
Code 61 / ORFS

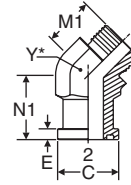


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M1 (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)						S
12 LOVQ1	3/4	3/4	1.500	0.265	1.20	1.58	1 7/16	5.0
16 LOVQ1	1	1	1.750	0.315	1.26	1.85	1 5/8	5.0
20 LOVQ1	1 1/4	1 1/4	2.000	0.315	1.29	2.40	1 7/8	4.0
24 LOVQ1	1 1/2	1 1/2	2.375	0.315	1.45	2.90	2 1/2	3.0

### LOVQ2

Code 62 Flange 45° Elbow  
Code 62 / ORFS

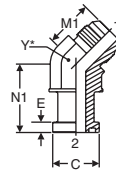


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M1 (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)						S
12 LOVQ2	3/4	3/4	1.625	0.345	1.20	1.83	1 7/16	6.0
16 LOVQ2	1	1	1.875	0.375	1.25	2.07	1 5/8	6.0
20 LOVQ2	1 1/4	1 1/4	2.125	0.405	1.29	2.40	1 7/8	5.0
24 LOVQ2	1 1/2	1 1/2	2.500	0.495	1.45	2.90	2 1/2	4.5

### XVQ1

Code 61 Flange 45° Elbow  
Code 61 / 37° Flare

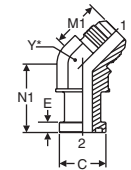


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M1 (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)						S
12 XVQ1	3/4	3/4	1.500	0.265	1.27	1.58	1 7/16	5.0
16 XVQ1	1	1	1.750	0.315	1.47	1.85	1 5/8	5.0
20 XVQ1	1 1/4	1 1/4	2.000	0.315	1.59	2.40	1 7/8	4.0
24 XVQ1	1 1/2	1 1/2	2.375	0.315	1.78	2.90	2 1/2	3.0
32 XVQ1	2	2	2.812	0.375	2.22	3.00	2 1/2	3.0

### XVQ2

Code 62 Flange 45° Elbow  
Code 62 / 37° Flare

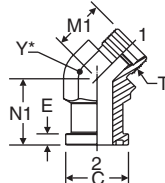


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M1 (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)						S
12 XVQ2	3/4	3/4	1.625	0.345	1.27	1.83	1 7/16	5.0
16 XVQ2	1	1	1.875	0.375	2.07	1.85	1 5/8	5.0
20 XVQ2	1 1/4	1 1/4	2.125	0.405	1.59	2.40	1 7/8	4.0
24 XVQ2	1 1/2	1 1/2	2.500	0.495	1.78	2.90	2 1/2	3.0

### BUVQ1

Code 61 45° Elbow  
Code 61 / Flareless



\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M1 (in.)	N1 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)						-S
12 BUVQ1	3/4	3/4	1.500	0.265	1.27	1.58	1 7/16	5.0
16 BUVQ1	1	1	1.750	0.315	1.36	1.85	1 5/8	5.0
20 BUVQ1	1 1/4	1 1/4	2.000	0.315	1.45	2.40	1 7/8	4.0
24 BUVQ1	1 1/2	1 1/2	2.375	0.315	1.52	2.90	2 1/2	3.0
32 BUVQ1	2	2	2.812	0.375	1.83	3.00	2 1/2	3.0



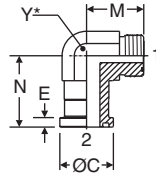
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G



Hose  
**A**

**LOEQ1**

Code 61 Flange 90° Elbow  
Code 61 / ORFS

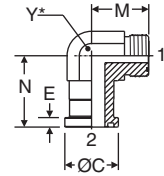


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)						S		
12 LOEQ1	3/4	3/4	1.500	0.265	1.95	1.81	1 3/16	5.0		
16 LOEQ1	1	1	1.750	0.315	2.05	2.13	1 7/16	5.0		
20 LOEQ1	1 1/4	1 1/4	2.000	0.315	2.22	2.26	1 5/8	4.0		
24 LOEQ1	1 1/2	1 1/2	2.375	0.315	2.54	2.64	2	3.0		

**LOEQ2**

Code 62 Flange 90° Elbow  
Code 62 / ORFS



\* Y – Across Wrench Flats

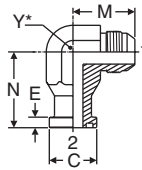
TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)						S		
12 LOEQ2	3/4	3/4	1.625	0.345	2.01	2.01	1 3/16	6.0		
16 LOEQ2	1	1	1.875	0.375	2.17	2.42	1 7/16	6.0		
20 LOEQ2	1 1/4	1 1/4	2.125	0.405	2.50	2.68	1 5/8	5.0		
24 LOEQ2	1 1/2	1 1/2	2.500	0.495	2.87	3.13	2	4.5		

Fittings  
21 Series  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

**XEQ1**

Code 61 Flange 90° Elbow  
Code 61 / 37° Flare

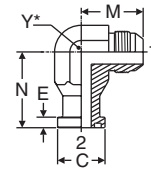


\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)						-S	-SS	-B
12 XEQ1	3/4	3/4	1.500	0.265	1.91	1.81	1 3/16	5.0		
16 XEQ1	1	1	1.750	0.315	2.07	2.13	1 7/16	5.0		
20 XEQ1	1 1/4	1 1/4	2.000	0.315	2.26	2.26	1 5/8	4.0		
24 XEQ1	1 1/2	1 1/2	2.375	0.315	2.72	2.64	2	3.0		
32 XEQ1	2	2	2.812	0.375	3.06	4.25	2 1/2	3.0		

**XEQ2**

Code 62 Flange 90° Elbow  
Code 62 / 37° Flare



\* Y – Across Wrench Flats

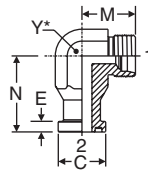
TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)						-S	-SS	-B
12 XEQ2	3/4	3/4	1.625	0.345	1.97	2.04	1 3/16	5.0		
16 XEQ2	1	1	1.875	0.375	2.19	2.42	1 7/16	5.0		
20 XEQ2	1 1/4	1 1/4	2.125	0.405	2.56	2.68	1 5/8	4.0		
24 XEQ2	1 1/2	1 1/2	2.500	0.495	3.03	3.13	2	3.0		

Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

**BUEQ1**

Code 61 90° Elbow  
Code 61 / Flareless



\* Y – Across Wrench Flats

TUBE FITTING PART #	END SIZE		C (in.)	E (in.)	M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
	1 (in.)	2 (in.)						-S	-SS	-B
12 BUEQ1	3/4	3/4	1.500	0.265	1.73	1.81	1 3/16	5.0		
16 BUEQ1	1	1	1.750	0.315	1.99	2.13	1 7/16	5.0		
20 BUEQ1	1 1/4	1 1/4	2.000	0.315	1.99	2.26	1 5/8	4.0		
24 BUEQ1	1 1/2	1 1/2	2.375	0.315	2.33	2.64	2	3.0		
32 BUEQ1	2	2	2.812	0.375	2.45	4.25	2 1/2	3.0		

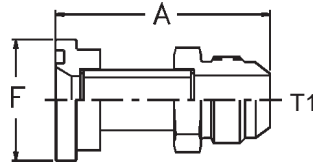
Accessories  
**F**

Appendices  
**G**

Parker Tube Adapters permit the use of straight JIC 37° female swivels or Seal-Lok swivels to SAE Code 61 or Code 62 split flange ports; and straight JIC 37° female swivels to male JIC 37° flare adapters.

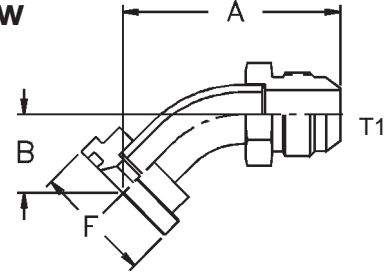
### 15T3 Straight

SAE (Code 61) Flange -  
Male SAE (JIC) 37° Flare



### 17T3 - 45° Elbow

SAE (Code 61) Flange -  
Male SAE (JIC) 37° Flare

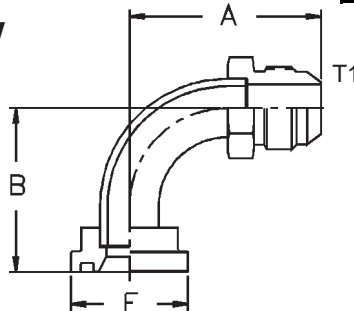


# Part Number (Steel)	Flange Size	Thread		A		F
		T1		inch	mm	inch
		Straight				
15T3-8-8	1/2	1/2	3/4x16	2.57	44	1-3/16
15T3-12-12	3/4	3/4	1-1/16x12	2.68	48	1-1/2
15T3-16-12	1	3/4	1-1/16x12	2.68	47	1-3/4
15T3-16-16	1	1	1-5/16x12	2.76	51	1-3/4
15T3-20-16	1-1/4	1	1-5/16x12	2.76	51	2
15T3-20-20	1-1/4	1-1/4	1-5/8x12	3.38	68	2
15T3-24-24	1-1/2	1-1/2	1-7/8x12	3.57	79	2-3/8
15T3-32-32	2	2	2-1/2x12	3.76	96	2-13/16

# Part Number	Flange	Thread		A		B		F
		T1		inch	mm	inch	mm	inch
		Straight						
17T3-8-8	1/2	1/2	3/4x16	2.54	65	0.78	20	1-3/16
17T3-12-12	3/4	3/4	1-1/16x12	2.76	70	1.00	25	1-1/2
17T3-16-12	1	3/4	1-1/16x12	2.76	70	1.00	25	1-3/4
17T3-16-16	1	1	1-5/16x12	2.99	76	1.06	27	1-3/4
17T3-20-16	1-1/4	1	1-5/16x12	2.99	76	1.06	27	2
17T3-20-20	1-1/4	1-1/4	1-5/8x12	3.22	82	1.12	28	2
17T3-24-20	1-1/2	1-1/4	1-5/8x12	3.26	83	1.17	30	2-3/8
17T3-24-24	1-1/2	1-1/2	1-7/8x12	3.43	87	1.12	28	2-3/8
17T3-32-32	2	2	2-1/2x12	4.02	102	1.25	32	2-13/16

### 19T3 - 90° Elbow

SAE (Code 61) Flange -  
Male SAE (JIC) 37° Flare



# Part Number (Steel)	Flange Size	Thread		A		B		F
		T1		inch	mm	inch	mm	inch
		Straight						
19T3-8-8	1/2	1/2	3/4X16	1.92	49	1.62	41	1-3/16
19T3-12-12	3/4	3/4	1-1/16x12	2.46	62	2.12	54	1-1/2
19T3-16-12	1	3/4	1-1/16x12	2.46	62	2.12	54	1-3/4
19T3-20-12	1-1/4	3/4	1-1/16x12	2.46	62	2.12	54	2
19T3-16-16	1	1	1-5/16x12	2.79	71	2.37	60	1-3/4
19T3-20-16	1-1/4	1	1-5/8x12	2.79	71	2.37	60	2
19T3-24-16	1-1/2	1	1-5/8x12	2.79	71	2.44	62	2-3/8
19T3-20-20	1-1/4	1-1/4	1-5/8x12	3.12	79	2.50	64	2
19T3-24-20	1-1/2	1-1/4	1-5/8x12	3.12	79	2.56	65	2-3/8
19T3-20-24	1-1/4	1-1/2	1-7/8x12	3.48	88	2.69	68	2
19T3-24-24	1-1/2	1-1/2	1-7/8x12	3.48	88	2.75	70	2-3/8
19T3-32-24	2	1-1/2	1-7/8x12	3.48	88	2.75	70	2-13/16
19T3-32-32	2	2	2-1/2x12	5.61	142	4.50	114	2-13/16

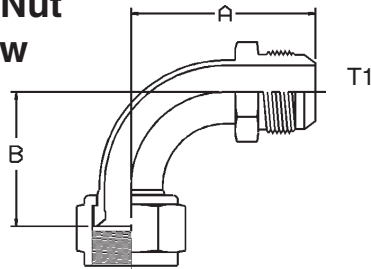
**CAUTION:** Do not use the T3 flange to tube or swivel nut to tube adapter in hose assembly applications in which pressures exceed the SAE100R2 working pressure range.

Hose
A
Fittings 21 Series
B
Parkrimp Crimping Equipment
C
Hose Assembly Equipment
D
Adapters
E
Accessories
F
Appendices
G

Hose  
A

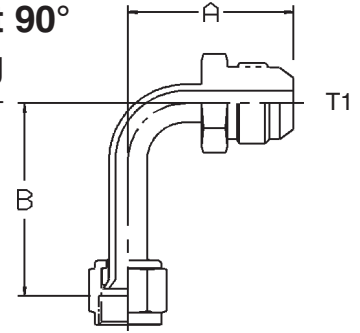
### 39T3 - Swivel Nut 90° Tube Elbow

Male SAE (JIC) 37°  
Flare 2 Ends -  
Female SAE (JIC) 37°  
Swivel Branch



### 41T3 - Swivel Nut 90° Tube Elbow Long

Female SAE (JIC) 37° Swivel -  
Male SAE (JIC) 37° Flare



Fittings  
21 Series  
B

# Part Number	Thread		A		B	
	T1		inch	mm	inch	mm
	Straight					
39T3-6-6	3/8	9/16x18	1.61	41	0.85	22
39T3-8-8	1/2	3/4x16	1.86	47	1.09	28
39T3-10-10	5/8	7/8x14	2.13	54	1.24	31
39T3-12-12	3/4	1-1/16x12	2.62	67	1.81	46
39T3-16-16	1	1-5/16x12	2.94	75	2.14	54
39T3-20-20	1-1/4	1-5/8x12	3.12	79	2.59	66

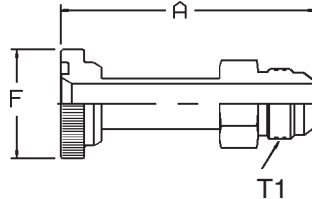
# Part Number	Thread		A		B	
	T1		inch	mm	inch	mm
	Straight					
41T3-8-8	1/2	3/4x16	1.94	49	2.43	62
41T3-10-10	5/8	7/8x14	2.20	56	2.57	65
41T3-12-12	3/4	1-1/16x12	2.50	64	3.74	95
41T3-16-16	1	1-5/16x12	2.79	71	4.23	107

**CAUTION:** Do not use the T3 flange to tube or swivel nut to tube adapter in hose assembly applications in which pressures exceed the SAE100R2 working pressure range.

Parkrimp  
Crimping  
Equipment  
C

### 4AH3 - Straight

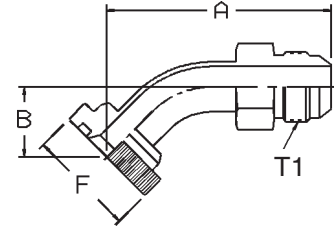
SAE Code 61-5000psi Flange  
Male SAE (JIC) 37° Flare



**Note:** Sizes -12 and -16 do not have knurls.

### 4FH3 - 45° Elbow

SAE Code 61-5000psi Flange  
Male SAE (JIC) 37° Flare



**Note:** Sizes -12 and -16 do not have knurls.

Hose  
Assembly  
Equipment  
D

# Part Number	Flange Size	Thread		A		F
		T1		inch	mm	inch
		Straight				
4AH3-12-12	3/4	3/4	1-1/16x12	3.82	97	1-1/2
4AH3-16-16	1	1	1-5/16x12	4.09	104	1-3/4
4AH3-20-20	1-1/4	1-1/4	1-5/8x12	4.16	106	2
4AH3-24-24	1-1/2	1-1/2	1-7/8x12	4.97	126	2-3/8

# Part Number	Flange Size	Thread		A		B		F
		T1		inch	mm	inch	mm	inch
		Straight						
4FH3-12-12	3/4	3/4	1-1/16x12	3.39	86	1.06	27	1-1/2
4FH3-16-16	1	1	1-5/16x12	3.85	98	1.27	32	1-3/4
4FH3-20-20	1-1/4	1-1/4	1-5/8x12	4.22	107	1.36	35	2

**Note:** Use 51H Flange Halves for -12 and -16 sizes and 50H Flange Halves for -20 and -24 sizes for 5000psi working pressures.

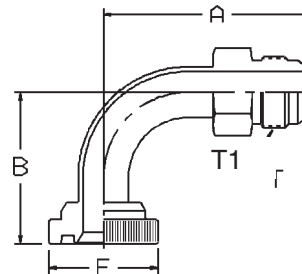
**Note:** Use 51H Flange Halves for -12 and -16 sizes and 50H Flange Halves for -20 and -24 sizes for 5000psi working pressures.

Adapters  
E

### 4NH3 - 90° Elbow

SAE Code 61-5000psi Flange -  
Male SAE (JIC) 37° Flare

**Note:** Sizes -12 and -16 do not have knurls.



**Note:** Use 51H Flange Halves for -12 and -16 sizes and 50H Flange Halves for -20 and -24 sizes for 5000psi working pressures.

Accessories  
F

# Part Number	Flange	Thread		A		B		F
		T1		inch	mm	inch	mm	inch
		Straight						
4NH3-8-8	1/2	1/2	3/4x16	1.93	49	1.68	43	1-3/16
4NH3-12-12	3/4	3/4	1-1/16x12	3.07	78	2.24	57	1-1/2
4NH3-16-16	1	1	1-5/16x12	3.25	83	2.48	63	1-3/4
4NH3-20-20	1-1/4	1-1/4	1-5/8x12	4.68	119	2.99	76	2
4NH3-24-24	1-1/2	1-1/2	1-7/8x12	3.92	100	3.64	92	2-3/8

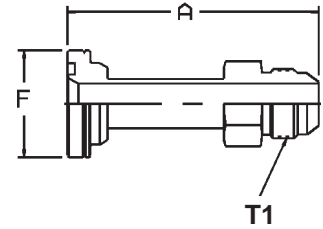
Appendices  
G

### 6AH3 - Straight

SAE Code 62 Flange -  
Male SAE (JIC) 37° Flare

# Part Number	Flange Size	T1		A		F
		Straight		inch	mm	inch
6AH3-12-12	3/4	3/4	1-1/16x12	3.82	97	1-5/8
6AH3-16-16	1	1	1-5/16x12	4.09	104	1-7/8
6AH3-20-20	1-1/4	1-1/4	1-5/8x12	4.16	106	2-1/8
6AH3-24-24	1-1/2	1-1/2	1-7/8x12	4.97	126	2-1/2

Note: Use High Pressure Flange Halves for 6000psi pressure (Code 62) applications.

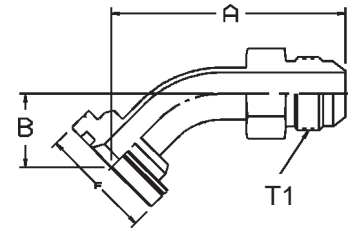


### 6FH3 - 45° Elbow

SAE Code 62 Flange -  
Male SAE (JIC) 37° Flare

# Part Number	Flange	Thread		A		B		F
		T1		inch	mm	inch	mm	inch
6FH3-12-12	3/4	3/4	1-1/16x12	3.40	86	1.06	27	1-5/8
6FH3-16-16	1	1	1-5/16x12	3.85	98	1.28	33	1-7/8
6FH3-20-20	1-1/4	1-1/4	1-5/8x12	4.22	107	1.36	35	2-1/8
6FH3-24-24	1-1/2	1-1/2	1-7/8x12	5.13	130	1.71	43	2-1/2

Note: Use High Pressure Flange Halves for 6000psi pressure (Code 62) applications.

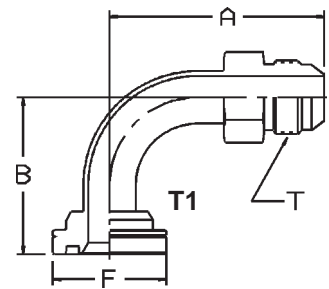


### 6NH3 - 90° Elbow

SAE Code 62 Flange -  
Male SAE (JIC) 37° Flare

# Part Number	Flange	Thread		A		B		F
		T1		inch	mm	inch	mm	inch
6NH3-12-12	3/4	3/4	1-1/16x12	3.07	78	2.24	57	1-5/8
6NH3-16-16	1	1	1-5/16x12	3.58	91	2.81	71	1-7/8
6NH3-20-20	1-1/4	1-1/4	1-5/8x12	4.68	119	2.99	76	2-1/8
6NH3-24-24	1-1/2	1-1/2	1-7/8x12	3.92	100	3.64	92	2-1/2

Note: Use High Pressure Flange Halves for 6000psi pressure (Code 62) applications.



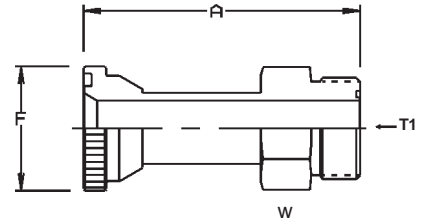
Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

### 4AJM - Straight

Code 61 Flange - Male Seal-Lok - Straight

# Part Number	Flange Size		Thread		A		W	F
			T1					
	inch	Dash	Straight		inch	mm	inch	
4AJM-12-12	1x1/2	-12	1-3/16x12	-12	3.65	93	1-1/4	1x1/2
4AJM-16-16	1x3/4	-16	1-7/16x12	-16	3.90	99	1-1/2	1x3/4
4AJM-20-20	2	-20	1-11/16x12	-20	3.92	100	1-3/4	2

**Note:** 4AJM-20-20 must use 50H split flanges.  
**Note:** Flange kits are listed in Section F.



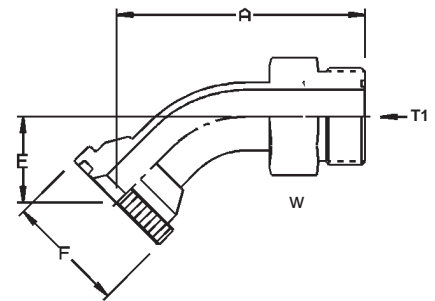
**Note:** 4AJM is rated for 5000psi in -12 and -16 sizes and for 4000psi in -20.

### 4FJM - 45° Elbow

Code 61 Flange - Male Seal-Lok - 45° Elbow

# Part Number	Flange Size		Thread		A		E		W	F
			T1		inch	mm	inch	mm		
	inch	Dash	Straight		inch	mm	inch	mm	inch	
4FJM-12-12	1x1/2	-12	1-3/16x12	-12	3.22	82	1.06	27	1-1/4	1x1/2
4FJM-16-16	1x3/4	-16	1-7/16x12	-16	3.64	92	1.27	33	1-1/2	1x3/4
4FJM-20-20	2	-20	1-11/16x12	-20	3.99	101	1.36	35	1-3/4	2

**Note:** 4FJM-20-20 must use 50H split flanges.  
**Note:** Flange kits are listed in Section F.



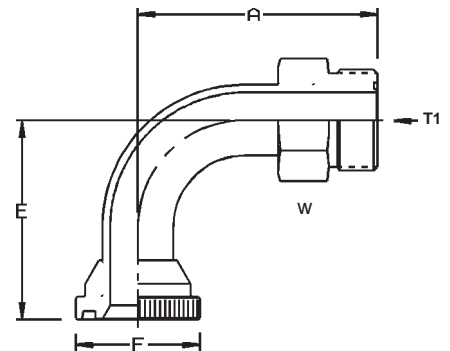
**Note:** 4FJM is rated for 5000psi in -12 and -16 sizes and for 4000psi in -20.

### 4NJM - 90° Elbow

Code 61 Flange - Male Seal-Lok - 90° Elbow

# Part Number	Flange Size		Thread		A		E		W	F
			T1		inch	mm	inch	mm		
	inch	Dash	Straight		inch	mm	inch	mm	inch	
4NJM-12-12	1x1/2	-12	1-3/16x12	-12	2.90	74	2.24	57	1-1/4	1x1/2
4NJM-16-16	1x3/4	-16	1-7/16x12	-16	3.38	86	2.81	71	1-1/2	1x3/4
4NJM-20-20	2	-20	1-11/16x12	-20	4.44	113	2.99	76	1-3/4	2

**Note:** 4NJM-20-20 must use 50H split flanges.  
**Note:** Flange kits are listed in Section F.



**Note:** 4NJM is rated for 5000psi in -12 and -16 sizes and for 4000psi in -20.

Hose  
A

Fittings  
21 Series  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

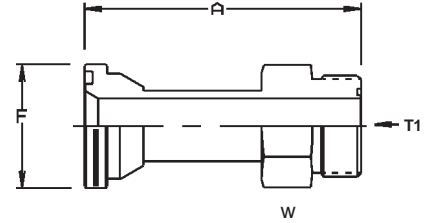
Appendices  
G

### 6AJM - Straight

Code 62 Flange - Male Seal-Lok - Straight

# Part Number	Flange Size inch		Thread		A inch mm		W in	F inch
			T1 Straight					
	inch	Dash	inch	mm	inch	mm	in	inch
6AJM-12-12	1x1/2	-12	1-3/16x12	-12	3.65	93	1x1/4	1-1/2
6AJM-16-16	1-7/16x12	-16	1-7/16x12	-16	3.90	99	1x1/2	1-3/4
6AJM-20-20	2-1/8	-20	1-11/16x12	-20	3.92	100	1x3/4	2

Note: Flange kits are listed in Section F.



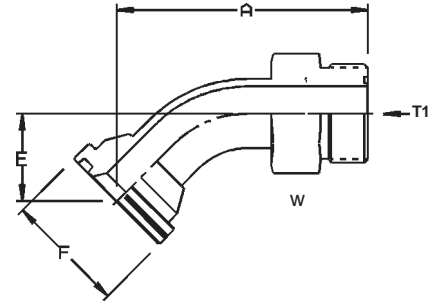
Note: 6AJM is rated for 6000psi in -12 and -16 sizes and for 4000psi in -20.

### 6FJM - 45° Elbow

Code 62 Flange - Male Seal-Lok - 45° Elbow

# Part Number	Flange Size inch		Thread		A in mm		E in mm		W in	F inch
			T1 Straight							
	inch	Dash	inch	mm	in	mm	in	inch		
6FJM-12-12	1x1/2	-12	1-3/16x12	-12	3.22	82	1.06	27	1x1/4	1-1/2
6FJM-16-16	1-7/16x12	-16	1-7/16x12	-16	3.64	92	1.27	33	1x1/2	1-3/4
6FJM-20-20	2-1/8	-20	1-11/16x12	-20	3.99	101	1.36	35	1x3/4	2

Note: Flange kits are listed in Section F.



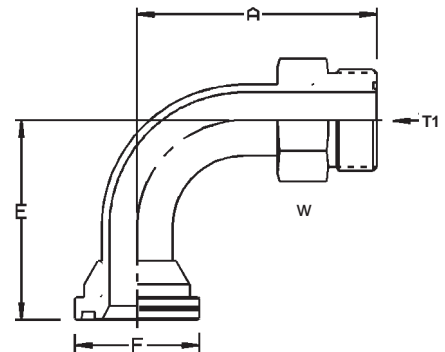
Note: 6FJM is rated for 6000psi in -12 and -16 sizes and for 4000psi in -20.

### 6NJM - 90° Elbow

Code 62 Flange - Male Seal-Lok - 90° Elbow

# Part Number	Flange Size inch		Thread		A inch mm		E inch mm		W in	F inch
			T1 Straight							
	inch	Dash	inch	mm	in	mm	in	inch		
6NJM-12-12	1x1/2	-12	1-3/16x12	-12	2.90	74	2.24	57	1x1/4	1-1/2
6NJM-16-16	1-7/16x12	-16	1-7/16x12	-16	3.38	86	2.81	71	1x1/2	1-3/4
6NJM-20-20	2-1/8	-20	1-11/16x12	-20	4.44	113	2.99	76	1x3/4	2

Note: Flange kits are listed in Section F.



Note: 6NJM is rated for 6000psi in -12 and -16 sizes and for 4000psi in -20.

Hose	A
Fittings 21 Series	B
Parkrimp Crimping Equipment	C
Hose Assembly Equipment	D
Adapters	E
Accessories	F
Appendices	G

Thread Guide

Size	NPTF Pipe Thread Size	SAE (JIC) 37° Flare Thread Size	SAE 45° Flare Thread Size	O-Ring Style Straight Thread Size	SAE Inverted Flare Thread Size	PTT 30° Flare Thread Size	SAE Flareless Thread Size	Seal-Lok Thread
2	1/8 - 27	5/16 - 24	5/16 - 24	5/16 - 24	-	-	5/16 - 24	-
3	-	3/8 - 24	3/8 - 24	3/8 - 24	-	-	3/8 - 24	-
4	1/4 - 18	7/16 - 20	7/16 - 20	7/16 - 20	7/16 - 24	-	7/16 - 20	9/16 - 18
5	-	1/2 - 20	1/2 - 20	1/2 - 20	1/2 - 20	-	1/2 - 20	-
6	3/8 - 18	9/16 - 18	5/8 - 18	9/16 - 18	5/8 - 18	-	9/16 - 18	11/16 - 16
8	1/2 - 14	3/4 - 16	3/4 - 16	3/4 - 16	3/4 - 18	-	3/4 - 16	13/16 - 16
10	-	7/8 - 14	7/8 - 14	7/8 - 14	7/8 - 18	-	7/8 - 14	1 - 14
12	3/4 - 14	1 1/16 - 12	1 1/16 - 14	1 1/16 - 12	-	-	1 1/16 - 12	1 3/16 - 12
14	-	1 3/16 - 12	-	1 3/16 - 12	-	-	1 3/16 - 12	-
16	1 - 11 1/2	1 5/16 - 12	-	1 5/16 - 12	-	1 5/16 - 14	1 5/16 - 12	1 7/16 - 12
20	1 1/4 - 11 1/2	1 5/8 - 12	-	1 5/8 - 12	-	1 5/8 - 14	1 5/8 - 12	1 11/16 - 12
24	1 1/2 - 11 1/2	1 7/8 - 12	-	1 7/8 - 12	-	1 7/8 - 14	1 7/8 - 12	2 - 12
32	2 - 11 1/2	2 1/2 - 12	-	2 1/2 - 12	-	2 1/2 - 12	2 1/2 - 12	-

Metric Thread Guide

Fitting Size	DIN "L" Swivel Female Thread Size	DIN "S" Swivel Female Thread Size	DIN "L" Male Stud Thread Size	DIN "S" Male Stud Thread Size	Male BSPP Thread Size	BSP Swivel Female Thread Size	French Swivel Female Gas Series	French Swivel Female Metric Series	French Male Stud Metric Series	French Male Stud Gas Series
4	-	-	-	-	1/4 x 19	1/4 x 19	-	-	-	-
6	M12 x 1,5	M14 x 1,5	M12 x 1,5	M14 x 1,5	3/8 x 19	3/8 x 19	-	M12 x 1	M12 x 1	-
8	M14 x 1,5	M16 x 1,5	M14 x 1,5	M16 x 1,5	1/2 x 14	1/2 x 14	-	M14 x 1,5	M14 x 1,5	-
10	M16 x 1,5	M18 x 1,5	M16 x 1,5	M18 x 1,5	5/8 x 14	5/8 x 14	-	M16 x 1,5	M16 x 1,5	-
12	M18 x 1,5	M20 x 1,5	M18 x 1,5	M20 x 1,5	3/4 x 14	3/4 x 14	-	M18 x 1,5	M18 x 1,5	-
-	-	-	-	-	-	-	M20 x 1,5	-	-	M20 x 1,5
14	-	M22 x 1,5	-	M22 x 1,5	-	-	-	M20 x 1,5	M20 x 1,5	-
15	M22 x 1,5	-	M22 x 1,5	-	-	-	-	M22 x 1,5	M22 x 1,5	-
16	-	M24 x 1,5	-	M24 x 1,5	1 x 11	1 x 11	-	M24 x 1,5	M24 x 1,5	-
-	-	-	-	-	-	-	M24 x 1,5	-	-	M24 x 1,5
18	M26 x 1,5	-	M26 x 1,5	-	-	-	-	M27 x 1,5	M27 x 1,5	-
20	-	M30 x 2	-	M30 x 2	1-1/4 x 11	1-1/4 x 11	-	M27 x 1,5	M27 x 1,5	-
-	-	-	-	-	-	-	M30 x 1,5	-	-	M30 x 1,5
22	M30 x 2	-	M30 x 2	-	-	-	-	M30 x 1,5	M30 x 1,5	-
25	-	M36 x 2	-	M36 x 2	1-1/2 x 11	1-1/2 x 11	-	M33 x 1,5	M33 x 1,5	-
-	-	-	-	-	-	-	M36 x 1,5	-	-	M36 x 1,5
28	M36 x 2	-	M36 x 2	-	-	-	-	M36 x 1,5	M36 x 1,5	-
30	-	M42 x 2	-	M42 x 2	2 x 11	2 x 11	-	M39 x 1,5	M39 x 1,5	-
33	-	-	-	-	-	-	M45 x 1,5	-	-	M45 x 1,5





# Accessories

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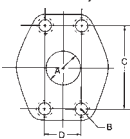
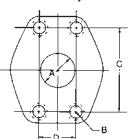
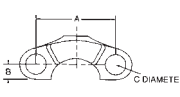
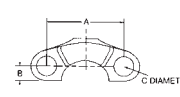




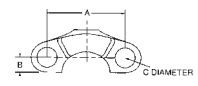
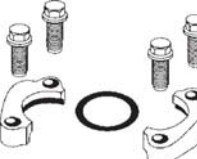
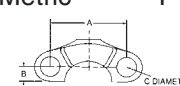
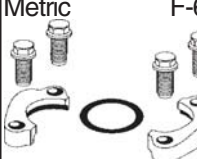
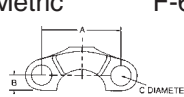


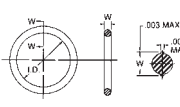
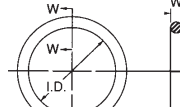


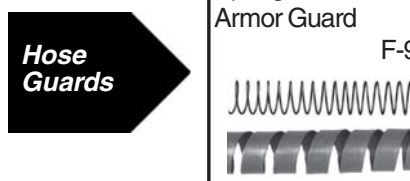






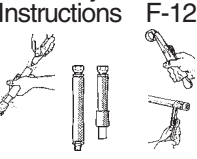


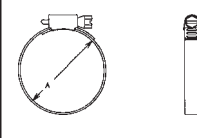
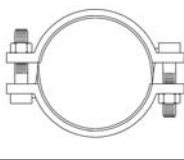








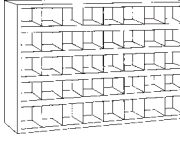

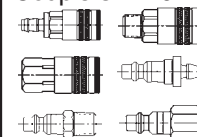


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Hose  
A  
Fittings  
B  
Parkrimp Crimping Equipment  
C  
Hose Assembly Equipment  
D  
Adapters  
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Accessories  
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G

	<p>Standard Pressure (Code 61) F-3</p> 	<p>High Pressure (Code 62) F-3</p> 	<p>50H F-3</p> 	<p>F-3</p> 	<p>51H F-4</p> 	<p>F-4</p> 	<p>5050HK F-4</p> 																																																																																																																																																																																																																																																								
<p>5151HK F-4</p> 	<p>HFH F-5</p> 	<p>HFHFK F-5</p> 	<p>DIN and ISO Metric Ports F-5</p> <table border="1"> <tr> <td colspan="2">SAE J518</td> <td colspan="2">DIN 20078</td> <td colspan="2">ISO 6162</td> </tr> <tr> <td>Code 61</td> <td>Form R</td> <td>2.5 to 35 MPa Series</td> <td colspan="2">Type 1</td> <td></td> </tr> <tr> <td>Code 62</td> <td>Form S</td> <td>40 MPa Series</td> <td colspan="2"></td> <td></td> </tr> </table>		SAE J518		DIN 20078		ISO 6162		Code 61	Form R	2.5 to 35 MPa Series	Type 1			Code 62	Form S	40 MPa Series				<p>M2H Metric F-5</p> 	<p>M2M2HK Metric F-6</p> 																																																																																																																																																																																																																																							
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<p>CORG Tools F-8</p> 	<p>Hose Guards</p> 		<p>Spring Guard &amp; Armor Guard F-9</p> 	<p>PolyGuard F-10</p> 	<p>ParKoil F-10</p> 	<p>Firesleeve F-11</p> 																																																																																																																																																																																																																																																									
<p>FSC Clamp F-11</p> 	<p>Firesleeve Accessories F-12</p> 	<p>Firesleeve Assembly Instructions F-12</p> 	<p>Partek Sleeves F-13</p> 	<p>CL Clamp F-14</p> 	<p>HC Clamp F-15</p> 																																																																																																																																																																																																																																																										
<p>88DB Clamp F-15</p> 	<p>88HC-H Clamp F-15</p> 	<p>Protection Shields F-16</p> 	<p>Parker Workstations</p> 		<p>Hose Assembly Workstation F-17</p> 	<p>HoseFab Table F-18</p> 																																																																																																																																																																																																																																																									
<p>Rotary &amp; 3/4 Reel Rack F-18</p> 	<p>Saw Table F-18</p> 	<p>Parker Kart F-19</p> 	<p>72B-Cabinet F-19</p> 	<p>HR6-Hose-Bin F-19</p> 	<p>Quick Disconnect Couplers F-20-22</p> 																																																																																																																																																																																																																																																										

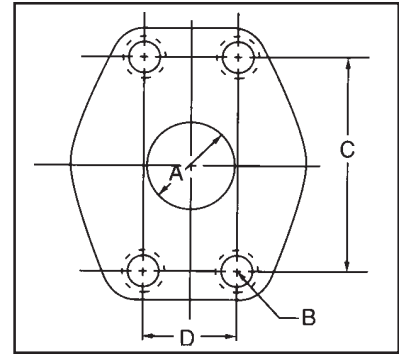


## SAE J518 port dimensions for 4-Bolt Split Flanges

There are two non-interchangeable SAE split flanges:

- a. Standard or Code 61 is for 3,000psi to 5,000psi maximum, depending on size.
- b. High Pressure or Code 62 is for 6,000psi maximum, regardless of size. The flange head is "V" notched for identification.

Consult these tables to determine flange halves and flange kits specifications.



### Standard Pressure (Code 61)

Nominal Flange	Flange Dash Size	A Dia Max		B Thread	C		D		Maximum Working Pressure	
		inch	mm		±0.010 inch	±0.25 mm	±0.010 inch	±0.25 mm	psi	Mpa
1/2	-8	0.50	13	5/16x18	1.500	38,10	0.688	17,47	5,000	34,5
3/4	-12	0.75	19	3/8x16	1.875	47,63	0.875	22,22	5,000	34,5
1	-16	1.00	25	3/8x16	2.062	52,37	1.031	26,18	5,000	34,5
1 1/4	-20	1.25	32	7/16x14	2.312	58,72	1.188	30,17	4,000*	27,6
1 1/2	-24	1.50	38	1/2x13	2.750	69,85	1.406	35,71	3,000*	20,7
2	-32	2.00	51	1/2x13	3.062	77,77	1.688	42,87	3,000*	20,7

Note: \*5000psi with 4A, 4F and 4N Fittings and 50H Flange Halves.

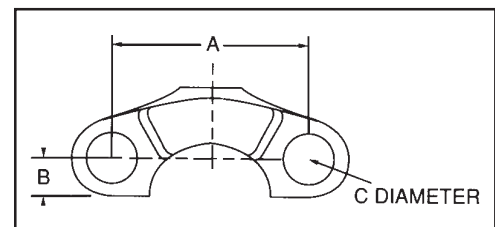
### High Pressure (Code 62)

Nominal Flange	Flange Dash Size	A Dia Max		B Thread	C		D		Maximum Working Pressure	
		inch	mm		±0.010 inch	±0.25 mm	±0.010 inch	±0.25 mm	psi	Mpa
3/4	-12	0.75	19	3/8x16	1.880	47,75	0.880	22,35	6,000	41,4
1	-16	1.00	25	7/16x14	2.250	57,15	1.093	27,76	6,000	41,4
1-1/4	-20	1.25	32	1/2x13	2.625	66,67	1.250	31,75	6,000	41,4
1-1/2	-24	1.50	38	5/8x11	3.125	79,37	1.437	36,49	6,000	41,4
2	-32	2.00	51	3/4x10	3.812	96,82	1.750	44,45	6,000	41,4

### 50H 5000 psi Flange Half (Code 61)

Part Number	SAE Flange Size	A	B	C	Maximum Working Pressure
	inch	inch	inch	inch	
50H-20	1-1/4	2.31	0.55	0.47	5,000
50H-24	1-1/2	2.75	0.66	0.53	5,000
50H-32	2	3.06	0.80	0.53	5,000

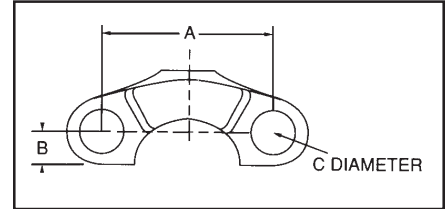
Note: For use with 4A, 4F and 4N flanges.



A	Hose
B	Fittings
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices

51H SAE Flange Half (Code 61)

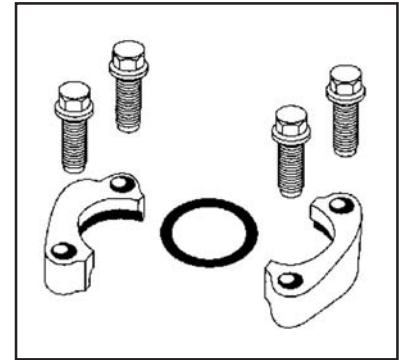
Part Number	SAE Flange Size	A	B	C	Maximum Working Pressure psi
	inch	inch	inch	inch	
51H-8	1/2	1.50	0.31	0.34	5,000
51H-12	3/4	1.88	0.40	0.41	5,000
51H-16	1	2.06	0.48	0.41	5,000
51H-20	1 1/4	2.31	0.56	0.47	4,000
51H-24	1 1/2	2.75	0.67	0.53	3,000
51H-32	2	3.06	0.81	0.53	3,000
51H-40	2-1/2	3.50	0.96	0.53	2,500



5050HK 5000 psi Flange Kit (Code 61)

Kit Part Number	SAE Flange Size inch	Maximum Working Pressure psi	2 Flange Halves	O-Ring	4 Bolts Grade 8		4 Lock Washers
					Thread inch	Length inch	
5050HK-20	1-1/4	5,000	50H-20	711510-3	7/16x14	1-1/2	7/16
5050HK-24	1-1/2	5,000	50H-24	711510-2	1/2x13	1-1/2	1/2
5050HK-32	2	5,000	50H-32	711510-1	1/2x13	1-1/2	1/2

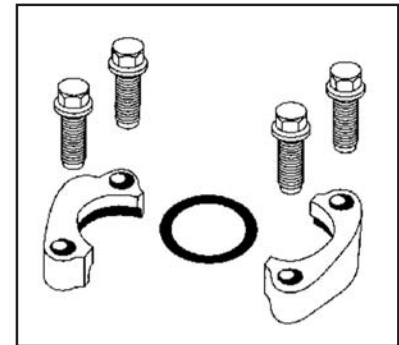
Note: For use with 4A, 4F and 4N Flanges.



5151HK SAE Flange Kit (Code 61)

Kit Part Number	SAE Flange Size inch	Maximum Working Pressure psi	2 Flange Halves	O-Ring	4 Bolts Grade 5		4 Lock Washers
					Thread inch	Length inch	
5151HK-8	1/2	5,000	51H-8	711510-6	5/16x18	1-1/4	5/16
5151HK-12	3/4	5,000	51H-12	711510-5	3/8x16	1-1/4	3/8
5151HK-16	1	5,000	51H-16	711510-4	3/8x16	1-1/4	3/8
5151HK-20	1-1/4	4,000	51H-20	711510-3	7/16x14	1-1/2	7/16
5151HK-24	1-1/2	3,000	51H-24	711510-2	1/2x13	1-1/2	1/2
5151HK-32	2	3,000	51H-32	711510-1	1/2x13	1-1/2	1/2
5151HK-40	2-1/2	2,500	51H-40	711510-7	1/2x13	1-3/4	1/2

Note: High pressure applications also require the use of Code 61 Flange End hose fittings.



Hose  
A

Fittings  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

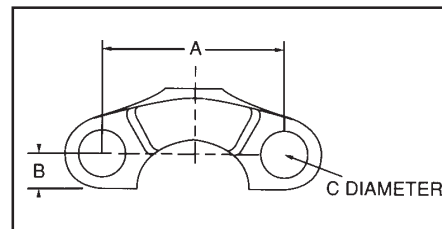
Adapters  
E

Accessories  
F

Appendices  
G

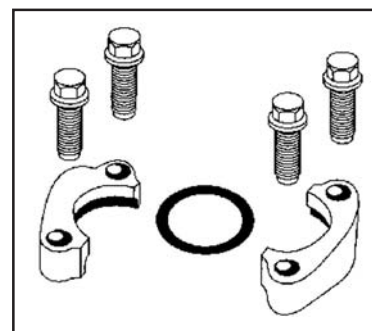
### HFH SAE Flange Half (Code 62)

Part Number	SAE Flange Size	A	B	C	Maximum Working Pressure
	inch	inch	inch	inch	
HFH-12	3/4	2.00	0.43	0.41	6,000
HFH-16	1	2.25	0.51	0.47	6,000
HFH-20	1 1/4	2.62	0.59	0.53	6,000
HFH-24	1 1/2	3.12	0.68	0.66	6,000
HFH-32	2	3.81	0.84	0.78	6,000



### HFHFHK SAE Flange Kit (Code 62)

Kit Part Number	SAE Flange Size	Maximum Working Pressure	2 Flange Halves	O-Ring	4 Bolts Grade 8		4 Lock Washer
					Thread	Length	
HFHFHK-12	3/4	6,000	HFH-12	711510-5	3/8x16	1-1/2	3/8
HFHFHK-16	1	6,000	HFH-16	711510-4	7/16x14	1-3/4	7/16
HFHFHK-20	1-1/4	6,000	HFH-20	711510-3	1/2x13	1-3/4	1/2
HFHFHK-24	1-1/2	6,000	HFH-24	711510-2	5/8x11	2-1/4	5/8
HFHFHK-32	2	6,000	HFH-32	711510-1	3/4x10	2-3/4	3/4



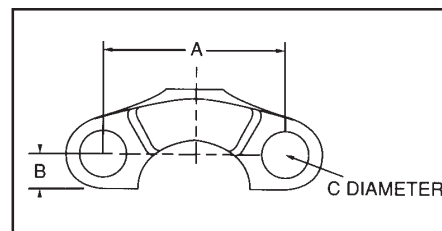
### DIN and ISO Metric Ports

DIN (German) and ISO (International Organization for Standardization) flange heads are the same as SAE flange heads. By comparison, the ports have the same configuration except that the DIN and ISO Type I ports accept metric bolts. This requires special flange halves in most sizes.

SAE J518	DIN 20078	ISO 6162 Type I
Code 61	Form R	2,5 to 35 MPa Series
Code 62	Form S	40 MPa Series

### M2H DIN (ISO) Flange Half (Code 62)

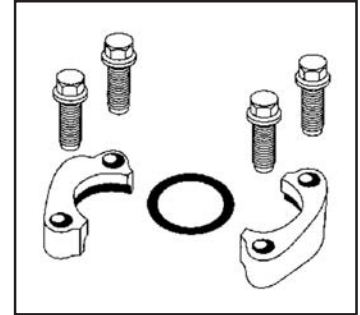
Part Number	DIN Flange Size	ISO Flange Size	A	B	C	Maximum Working Pressure	
			mm	mm	mm	psi	MPa
M2H-8	8	13	41	8	9	6,000	41.5
M2H-12	12	19	51	11	11	6,000	41.5
M2H-16	16	25	57	13	13.5	6,000	41.5
M2H-20	20	32	67	15	13.5	6,000	41.5
M2H-24	24	38	79	17	17.5	6,000	41.5
M2H-32	32	51	97	21	22	6,000	41.5



**Note:** High pressure applications also require the use of Code 62 Flange End hose fittings.

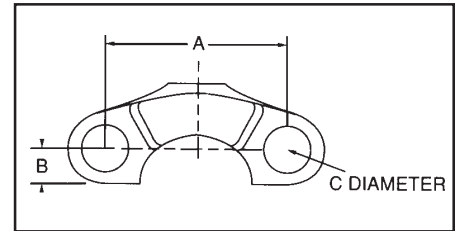
**M2M2HK DIN (ISO) Flange Kit (Code 62)**

Kit Part Number	DIN Flange Size	ISO Flange Size	Maximum Working Pressure		2 Flange Halves	O-Ring	4 HHCS		4 Lock Washers
			psi	Mpa			Thread	Length	
M2M2HK-8	8	13	6,000	41,5	M2H-8	711510-6	M8x1.25	30	8
M2M2HK-12	12	19	6,000	41,5	M2H-12	711510-5	M10x1.50	35	10
M2M2HK-16	16	25	6,000	41,5	M2H-16	711510-4	M12x1.75	45	12
M2M2HK-20	20	32	6,000	41,5	M2H-20	711510-3	M12x1.75	45	12
M2M2HK-24	24	38	6,000	41,5	M2H-24	711510-2	M16x2.0	55	16
M2M2HK-32	32	51	6,000	41,5	M2H-32	711510-1	M20x2.5	70	20



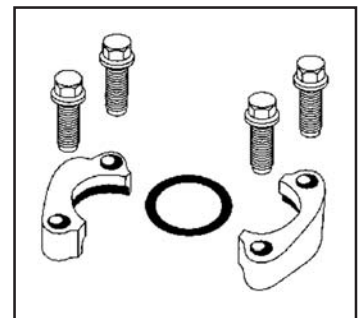
**M1H DIN (ISO) Flange Half (Code 61)**

Part Number	DIN Flange Size	ISO Flange Size	A	B	C	Maximum Working Pressure	
						mm	mm
M1H-8	8	13	38	8	9	5,000	34.5
M1H-12	12	19	48	10	11	5,000	34.5
M1H-16	16	25	52	12	11	5,000	34.5
M1H-20	20	32	59	14	11	4,000	27.6
M1H-24	24	38	70	17	13.5	3,000	20.7
M1H-32	32	51	78	21	13.5	3,000	20.7



**M1M1HK DIN (ISO) Flange Kit (Code 61)**

Part Number	DIN Flange Size	ISO Flange Size	Maximum Working Pressure		2 Flange Halves	O-Ring	4 Bolts		4 Lock Washers
			psi	MPa			Thread	Length	
M1M1HK-8	8	13	5,000	34,5	M1H-8	711510-6	M8x1.25	30	10
M1M1HK-12	12	19	5,000	34,5	M1H-12	711510-5	M10x1.50	30	10
M1M1HK-16	16	25	5,000	34,5	M1H-16	711510-4	M10x1.50	30	10
M1M1HK-20	20	32	4,000	27,6	M1H-20	711510-3	M10x1.50	40	10
M1M1HK-24	24	38	3,000	20,7	M1H-24	711510-2	M12x1.75	40	12
M1M1HK-32	32	51	3,000	20,7	M1H-32	711510-1	M12x1.75	40	12
M1M1HK-40	40	64	2,500	17,2	M1H-40	711510-7	M12x1.75	45	12



Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

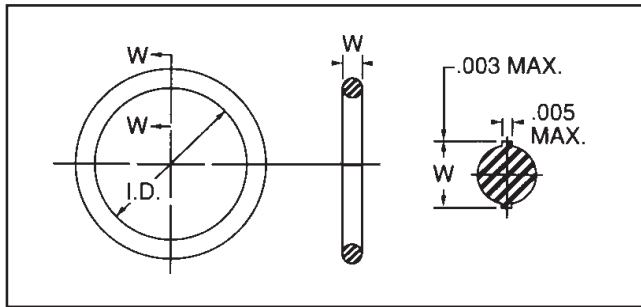
Hose Assembly Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

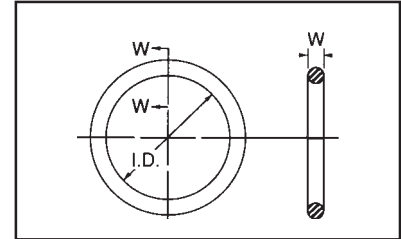
Appendices  
**G**

**711509—O-Rings - SAE Thread  
(Compound N552-90)\***



Part Number	Tube Dash Size	Tube O.D. inch	SAE Thread inch	W		I.D.	
				inch	mm	inch	mm
711509-1	-4	1/4	7/16x20	0.072	1,83	0.351	8,92
711509-2	-5	5/16	1/2x20	0.072	1,83	0.414	10,52
711509-3	-6	3/8	9/16x20	0.078	1,98	0.468	11,89
711509-4	-8	1/2	3/4x16	0.087	2,21	0.644	16,36
711509-5	-10	5/8	7/8x14	0.097	2,46	0.755	19,18
711509-6	-12	3/4	1-1/16x12	0.116	2,95	0.924	74,93
711509-7	-16	1	1-5/16x12	0.116	2,95	1.171	29,74
711509-8	-20	1-1/4	1-5/8x12	0.118	3,00	1.475	37,47
711509-9	-24	1-1/2	1-7/8x12	0.118	3,00	1.720	43,69
711509-10	-32	2	2-1/2x12	0.118	3,00	2.337	59,36

**711510—O-Rings - Code 61 and  
Code 62 Flanges  
(Compound N552-90)\***



Part Number	Flange Dash Size	Flange Size inch	W		I.D.	
			inch	mm	inch	mm
711510-6	-8	1/2	0.139	3,53	0.734	18,64
711510-9	-10	5/8	0.139	3,53	0.796	20,20
711510-5	-12	3/4	0.139	3,53	0.984	25,00
711510-4	-16	1	0.139	3,53	1.296	32,92
711510-3	-20	1-1/4	0.139	3,53	1.484	37,69
711510-2	-24	1-1/2	0.139	3,53	1.859	47,22
711510-1	-32	2	0.139	3,53	2.234	56,74
711510-7	-40	2-1/4	0.139	3,53	2.734	69,44
711510-8	-48	3	0.139	3,53	3.359	85,32

\*Note: For use with petroleum base fluids, other compounds available for Phosphate Ester fluids. Please contact the Parker Hannifin Seal Group/O-Ring Division (1-800-C-PARKER) for additional information.

**C9RG—O-Rings for CA,  
CE, CF Metric Swivels**

Part Number	I.D.	
	mm	mm
C9RG-8	1,5	6,0
C9RG-10	1,5	7,5
C9RG-12	1,5	9,0
CARG-15	2,0	12,0
CARG-18	2,0	15,0
CARG-22	2,0	20,0

**C9RG—O-Rings for C9,  
OC, 1C Metric Swivels**

Part Number	I.D.	
	mm	mm
C9RG-8	1,5	6,0
C9RG-10	1,5	7,5
C9RG-12	1,5	9,0
C9RG-14	2,0	10,0
C9RG-20	2,4	16,3
C9RG-25	2,4	20,3

**D9DT—Bonded Seal for  
BSPP Port Fittings**

Part Number	I.D.		O.D.	
	inch	mm	inch	mm
D9DT-4	0.54	13,7	0.81	20,6
D9DT-6	0.68	17,3	0.94	23,9
D9DT-8	0.85	21,6	1.13	28,7
D9DT-10	0.93	23,6	1.25	31,8
D9DT-12	1.06	27,0	1.38	35,1
D9DT-16	1.33	33,8	1.68	42,7

Note: D9DT must be ordered from the Tube Fittings Division. Please contact TFD for additional size and product information.

**XARG—Flange "D" Rings  
Caterpillar® Style Flanges**

Part Number	Flange Size	Dash Size	W		I.D.	
			inch	mm	inch	mm
XARG-12	3/4	-12	0.20	5,0	1.00	25,4
XARG-16	1	-16	0.20	5,0	1.28	31,8
XARG-20	1-1/4	-20	0.20	5,0	1.50	38,1
XARG-24	1/2	-24	0.20	5,0	1.75	44,5



Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

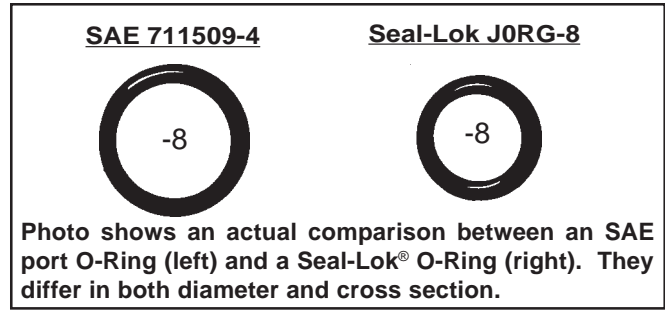
Adapters  
**E**

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**F**

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**G**

**J0RG—O-Rings - Seal-Lok®**

Part Number	Tube Dash Size	Tube O.D. inch	SAE Thread inch	I.D.		W	
				inch	mm	inch	mm
J0RG-4	-4	1/4	9/16x18	0.301	7,65	0.070	1,78
J0RG-6	-6	3/8	11/16x16	0.364	9,25	0.070	1,78
J0RG-8	-8	1/2	13/16x16	0.489	12,42	0.070	1,78
J0RG-10	-10	5/8	1x14	0.614	15,59	0.070	1,78
J0RG-12	-12	3/4	1-3/16x12	0.739	18,77	0.070	1,78
J0RG-16	-16	1	1-7/16x12	0.926	23,52	0.070	1,78
J0RG-20	-20	1-1/4	1-11/16x12	1.176	29,87	0.070	1,78
J0RG-24	-24	1-1/2	2x12	1.489	37,82	0.070	1,78



**Note:** O-Rings for use in Seal-Lok® connections are illustrated in actual size. Part numbers for O-Rings used in Seal-Lok® and in SAE port connections are also listed in the table. O-Rings are supplied in Nitrile NBR compound, 90 durometer hardness.

**59RG—O-Rings for Tube O-Ring Fittings**

Part Number	Tube O.D. inch	Tube Dash Size	Parker Seal Number
59RG-6	3/8	-6	2-011
59RG-8	1/2	-8	2-013
59RG-10	5/8	-10	2-015
59RG-12	3/4	-12	2-017

**59RG—O-Rings for Special Compressor Fittings**

Part Number	Size	Thread Size inch	Parker Seal Number
59RG-10	-12	1x14	2-015

**Note:** The above O-Rings (RG) have HNBR compound number N1195-70 (green).

**T1RG—O-Rings for Compression Fittings (1T128)**

Part Number	Tube O.D. inch	Tube Dash Size	Parker Seal Number
T1RG-6	3/8	-6	2-012
T1RG-8	1/2	-8	2-014
T1RG-10	5/8	-10	2-016
T1RG-12	3/4	-12	2-018

**Charge Ports Caps R134a**

Part Number	Fitting Size	Fitting Shape	Port Type	
			Flow	Side
940199	-6 & -8	Straight	High	High
940200	-10 & -12	Straight	High	Low
940188	-6 & -8	Elbows	Standard	High
940189	-10 & -12	Elbows	Standard	Low

**R12**

Part Number	Thread
940249	7/16x20

**CORG - Captive O-Ring Assembly Tools**

Parker's new CORG Assembly Tools are designed to facilitate the installation of the O-Ring into the half-dovetail groove of the O-Ring face seal fitting.

Fitting Size	Hand Type Part Number	Bench Type Part Number
-4	CORG-4	CORG-AT04 Bench
-6	CORG-6	CORG-AT06 Bench
-8	CORG-8	CORG-AT08 Bench
-10	CORG-10	CORG-AT10 Bench
-12	CORG-12	CORG-AT12 Bench
-16	CORG-16	CORG-AT16 Bench
-20	CORG-20	CORG-AT20 Bench
-24	CORG-24	CORG-AT24 Bench
-32	CORG-32	



Bench Type



Hand Type

**Note:** CORG Assembly Tools must be ordered from the Tube Fittings Division (614) 279-7070.

**Note:** O-Rings listed are for use with petroleum base fluids. Other compounds are available for Phosphate Ester fluids by special order. For Viton® or other O-Ring compounds, consult Parker Hannifin, Seal/O-Rings Products Division (1-800-C-PARKER.)



Hose

A

Fittings

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Parkrimp Crimping Equipment

C

Hose Assembly Equipment

D

Adapters

E

Accessories

F

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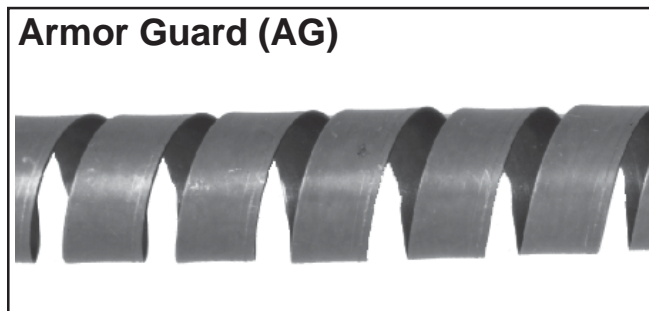
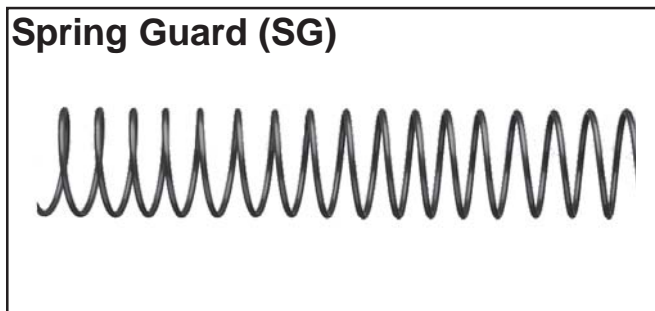
### Accessory Selection Guide - Spring Guard and Armor Guard.

Spring Guard Part Number	Armor Guard Part Number	Inside Dia. inch	SS23CG	213	301	351TC/ST	601	701	CN	801	811
			SS25UL	285	301LT	421,421HT	604	721	731	804	881
			201/261	293	304	424,431,436		721TC	78C	821	
			221FR		341	451TC/ST		772TC/ST	781	821FR	
			206, 225		381	471TC/ST		774	782TC/ST	831, 836	
			235, 244		421WC	482TC/ST			791TC		
			266		BXX	472TC, AX			792TC/ST		
SG-050	AG-050	0.50		-4		-3					
SG-060	AG-060	0.60	-4	-5	-3	-4	-3/-4			-4/-5	
SG-066	AG-066	0.66	-5	-6	-4	-5					
SG-072	AG-072	0.72	-6		-5	-6	-5			-6	
SG-084	AG-084	0.84	-8	-8	-6	-8	-6	-4/-6	-4	-8	
SG-097	AG-097	0.97	-10	-10	-8	-10	-8	-8	-6	-10	
SG-106	AG-106	1.06		-12	-10				-8		
SG-113	AG-113	1.13	-12			-12	-10	-10		-12	
SG-122	AG-122	1.22			-12				-10		
SG-131	AG-131	1.31	-16	-16			-12	-12	-12	-16	-12
SG-155	AG-155	1.55	-20	-20	-16	-16	-16	-16			-16
SG-166	AG-166	1.66							-16		
SG-182	AG-182	1.82	-24	-24		-20	-20				-20
SG-209	AG-209	2.09			-20	-24		-20	-20		
SG-232	AG-232	2.32	-32		-24				-24		
SG-319	AG-319	3.19									-40

Note: Spring Guard and Armor Guard are packaged in 10 ft. pieces.

#### PARKER SPRING GUARD AND ARMOR GUARD

Parker Spring Guard and Armor Guard are two products that prolong the life of hose lines that are exposed to rugged operating conditions. They distribute bending radii to avoid kinking in hose lines and protect hose from abrasion and deep cuts. Guards are constructed of steel wire and plated to resist rust.



A	Hose
B	Fittings
C	Parkrimp Crimping Equipment
D	Hose Assembly Equipment
E	Adapters
F	Accessories
G	Appendices



## Accessory Selection Guide

- ◆ Shield hose from abrasion and cuts
- ◆ Minimize kinking
- ◆ Cannot rust or corrode
- ◆ Easy to install without removing hose lines; no clamps needed
- ◆ Resist water, oil, gasoline, hydraulic fluid, and most solvents
- ◆ Ideal for bundling plastic tubing or hose lines

### PolyGuard (HG)

Heavy-duty polyethylene provides protection in rugged operating conditions. Great for bundling high-pressure hose lines.

Cut edges can be smoothed by applying heat.  
**(CAUTION: This material will support combustion).**

Color: Black  
Temperature Range: 0°F to +200°F (-17°C to +93°C)

### ParKoil (PG)

Lower -cost protection for application that call for a tighter bend radius and are less demanding.

Cut edges can be smoothed by applying heat.  
**(CAUTION: This material will support combustion).**

Color: Black  
Temperature Range: 0°F to +200°F (-17°C to +93°C)

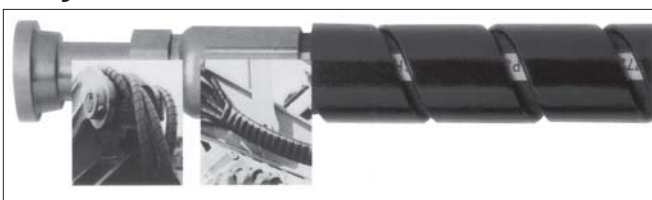
### PolyGuard Table

Part Number	Inside Dia. inch	Box Qty. foot	SS23CG SS25UL 201/261, 206 213, 221FR 225, 235, 244 266, 285, 293	301 301LT 304 341 381 BXX	421, 421WC 424, 426 431, 436, AX 351TC/ST 451TC/ST 471TC/ST 472TC	601 604	701 721, 721TC 772TC/ST 774	CN 78C, 781 782TC/ST 791TC 792TC/ST	731	801 804 821 821FR 831, 836	811 881
HG-075	0.75	100	-8/-10	-6/-8	-8/-10	-6/-8	-4/-6			-8/-10	
HG-100	1.00	100	-12	-10/-12	-12	-10	-8/-10			-12	-12
HG-125	1.25	100	-16		-16	-12	-12	-12	-12	-16	
HG-150	1.50	100	-20/-24	-16/-20	-20	-16/-20	-16	-16	-16/-20		-16/-20
HG-200	2.00	100	-32/-40	-24/-32	-24/-32		-20/-24 -32	-20/-24 -32	-24/-32		-24/-32 -40
HG-350	3.50	30	-48								-48

### ParKoil Table

Part Number	Inside Dia. inch	Box Qty. foot	SS25UL, SS23CG 201/261, 221FR 206, 225 235, 244 266	213 285 293	301 301LT 304 341 381 421WC BXX	421, 424, 426 431, 436, AX 351TC/ST 451TC/ST 471TC/ST 472TC 482TC/ST	601 604	701 721 721TC 772TC/ST 774	CN, 731 78C, 781 782TC/ST 791TC 792TC/ST	801 804 821 821FR 831, 836	811 881
PG-038	0.38	50		-4		-3					
PG-050	0.50	50	-4/-5	-5	-3/-4	-4/-5	-4			-4	
PG-062	0.62	50	-6	-6/-8	-5	-6				-6	
PG-075	0.75	50	-8	-10	-6	-8	-6	-6		-8	
PG-088	0.88	50	-10	-12	-8	-10	-8	-8		-10	
PG-100	1.00	50	-12		-10/-12	-12		-10	-10	-12	
PG-119	1.19	25	-16	-16			-12	-12	-12		-12
PG-138	1.38	25	-20/-24	-20/-24	-16	-16/-20	-16	-16/-20	-16		-16/-20
PG-188	1.88	25	-32/-40 -48	-32/-40 -48	-20/-24 -32	-24 -32		-24 -32	-20/-24 -32		-24 -32

### PolyGuard



### ParKoil



Hose  
**A**  
 Fittings  
**B**  
 Parkrimp Crimping Equipment  
**C**  
 Hose Assembly Equipment  
**D**  
 Adapters  
**E**  
 Accessories  
**F**  
 Appendices  
**G**

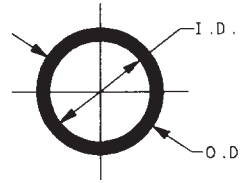
## Accessory Selection Guide - Firesleeve (FS-F)

Parker Firesleeve is a flame resistant sheath that protects the hose from extreme temperature conditions. Firesleeve easily slides over hoses and readily expands over fitting. It can be assembled with Parker FSC or properly sized wormgear clamp.

**Construction:** Braided fiberglass sleeve and an orange, bonded and seamless silicone rubber cover.

**Specifications:** Conforms to SAE Aerospace Standard 1072A Type 2A.

**Temperature Range:** -54°C to +260°C (-65°F to +500°F).



**Note:** The Firesleeve inside dimension (I.D.) must exceed the outside diameter (O.D.) of the hose and offer an allowance for easy hose insertion. For example, 201-16 has a 1.23 in. O.D. FS-S-22, with an I.D. of 1.38 in., is the suggested Firesleeve. After selecting a Firesleeve, identify its O.D. from the table below for clamp selection.

**Note:** Parker FSC Clamp fits all hoses up to 2 in. O.D.

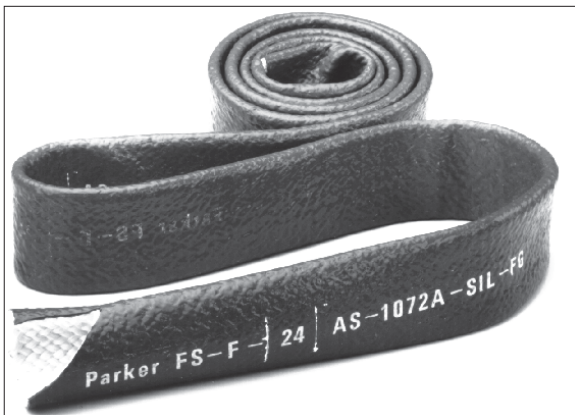
**Note:** Parker HC Clamps (wormgear) are listed on page F-15.

### Firesleeve Table

Part Number	Inside Dia. inch	SS25UL SS23CG 201/261 206, 225 235, 244 266	213 285 293	301 301LT 304, 341 381 BXX	421, 424, 426 431, 436, AX 351TC/ST, 472TC 451TC/ST 471TC/ST 482TC/ST	421WC	601 604	701 721 721TC 772TC/ST 774	CN, 731 78C, 781 782TC/ST 791TC 792TC/ST	801 804 821 821FR 831 836	811 881
FS-F-10	0.58	-4	-4	-3	-3/-4		-3			-4	
FS-F-11	0.65	-5	-5	-4	-5	-4	-4				
FS-F-12	0.71		-6	-5						-6	
FS-F-14	0.84	-6/-8	-8	-6	-6	-6	-5/-6			-8	-6
FS-F-16	0.96		-10		-8	-8		-6			
FS-F-18	1.08	-10	-12	-8/-10	-10		-8	-8		-10	-8
FS-F-20	1.21	-12		-12	-12	-12	-10	-10	-8	-12	-10
FS-F-24	1.46				-16						
FS-F-30	1.84	-24	-24								
FS-F-38	2.34	-32	-32	-20/-24	-24			-20/-24	-20		-24
FS-F-40	2.46								-24		

**Note:** See Page F-12 for Firesleeve assembly instructions.

### Firesleeve (FS-F)



### FSC Clamp



Part Number: FSC  
(One size fits all hoses up to 2 inch O.D.)

Hose  
**A**

Fittings  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

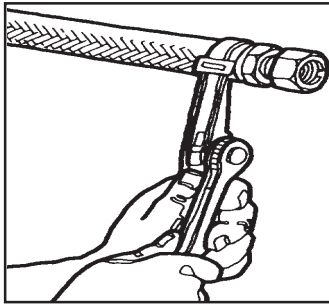
Hose  
Assembly  
Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

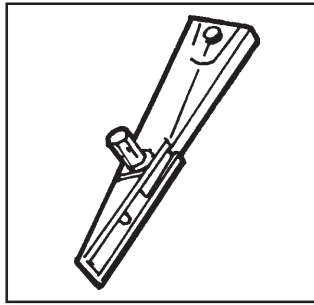
Appendices  
**G**

**Firesleeve Accessories**



**FSC Clamp**

Used to attached firesleeve around socket on hose sizes with a 2" maximum O.D.



**FST Clamp Tool**

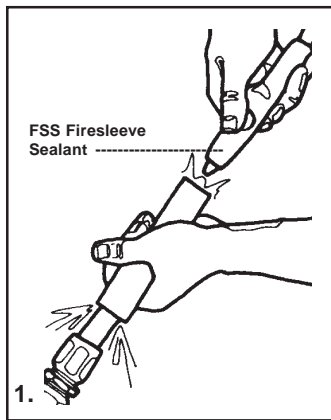
Part Number: FST-711617  
Used to secure FSC clamp.



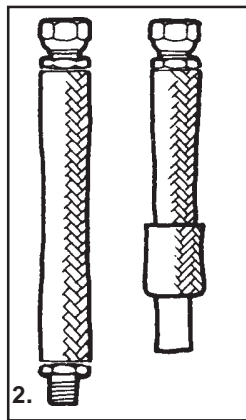
**FSS Firesleeve Sealant**

Keeps ends of firesleeve from fraying - for neater, longer lasting installation.

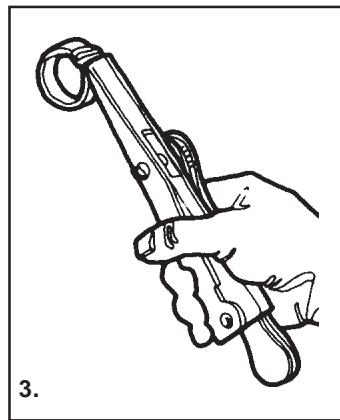
**Firesleeve Assembly Instructions**



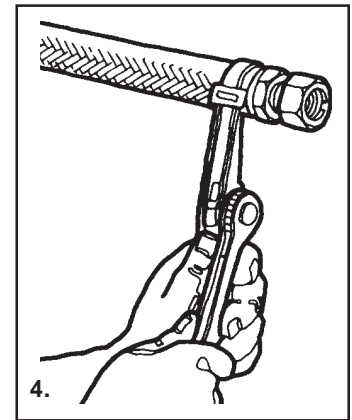
1. Assemble one end fitting on hose. Cut firesleeve to same length as hose. Cover approximately 1" of each end of firesleeve with FSS sealant and allow to dry.



2. Push firesleeve back from cut end of hose and assemble the second fitting. Then pull firesleeve completely over both sockets.



3. Insert tail of FSC clamp into FST clamping tool.



4. Position clamp around middle of socket and tighten with tool. Bend end of band back over buckle. Repeat on other end. Repair any scuffs or abrasions in firesleeve with FSS sealant.

Hose  
**A**

Fittings  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
Assembly  
Equipment  
**D**

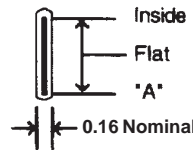
Adapters  
**E**

Accessories  
**F**

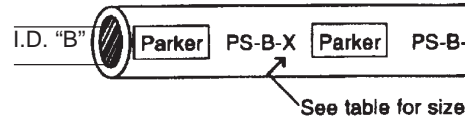
Appendices  
**G**

## Accessory Selection Guide - Partek Sleeve (AS-B, AS-Y or PS)

Parker's Partek Nylon Protective Sleeving gives you tough hose abrasion protection two ways. First, per the ISO 6945 specification, Partek has a unique tubular weave nylon construction, Partek "AS" is strong enough to withstand greater than 200,000 abrasion cycles without wearing through the fabric at any location. Partek "PS" can withstand greater than 50,000 abrasion cycles. In addition, this weave also gives an exceptionally smooth interior wall, allowing rubber hose to move freely inside the sleeve. This provides easy installation and prevents any internal abrasion problems. Partek sleeving is available in either black or yellow and in sizes to fit most hydraulic hose. Partek, the quick and easy solution to hose protection in high-abrasion areas.



Note: The inside flat "A" dimension corresponds with the inside diameter "B" dimension. For example, AS-Y-13 flat surface "A" is 1.34 in. This offers a .86 in. inside diameter "B". Hose with a smaller O.D. can be specified for this size sleeve. Parker 201-5 hose has a .58 in. O.D. and can easily be inserted in the Partek AS-Y-13 Sleeve.



Temperature Range: -67°F to +248°F (-53°C to +120°C)

Partek Sleeve (Black) Part Number	Partek Sleeve (Yellow) Part Number	Partek PS Sleeve (Black) Part Number	Inside Dia.		SS23CG SS25UL 201/261 221FR 206, 225 235, 244 266	213 285 293	301 301LT 304 341, 381 421WC BXX	421, AX, 424 426, 431, 436 351TC/ST 451TC/ST 471TC/ST 472TC 482TC/ST	601 604	701 721, 721TC 772TC/ST 774 782TC/ST 792TC/ST	CN, 731 78C, 781 782TC/ST 791TC 792TC/ST	801 804 821FR 831, 836	811 881
			A inch	B inch									
AS-B-11	AS-Y-11		1.07	0.69	-4	-4	-3	-3/-4	-3			-4	
AS-B-13	AS-Y-13	PS-B-13	1.34	0.86	-5/-6	-5/-6	-4/-5	-5/-6	-4/-5			-5/-6	
AS-B-15	AS-Y-15	PS-B-15	1.66	1.06	-8	-8/-10	-6	-8	-6	-6		-8	
AS-B-17	AS-Y-17	PS-B-17	1.92	1.22	-10	-12	-8/-10	-10	-8	-8		-10	
AS-B-19	AS-Y-19		2.12	1.35	-12		-12	-12	-10	-10	-8	-12	
		PS-B-22	2.24	1.42	-12		-12	-12		-10		-12	
AS-B-22	AS-Y-22	PS-B-22	2.24	1.42	-16	-16			-12	-12	-10		-12
AS-B-27	AS-Y-27		2.55	1.63				-16			-12	-16	
		PS-B-33	2.85	1.81				-16			-12	-16	
AS-B-33	AS-Y-33	PS-B-33	2.85	1.81	-20	-20	-16		-16	-16	-16		-16
	AS-Y-35	PS-B-35	3.43	2.19	-24	-24		-20					-20
AS-B-37	AS-Y-37	PS-B-37	3.73	2.38			-20	-24		-20	-20		
		PS-B-39	4.12	2.63	-32	-32	-24			-24			-24
		PS-B-45	4.12	2.88			-32	-32					-32
		PS-B-47	4.90	3.13	-40	-40				-32			
AS-B-58			5.69	3.63	-48	-48							-48
AS-B-64			6.81	4.00									

- Note: 1. The dimensions shown are related to the hose outside diameter and may not fit over the fitting. For over the fitting applications, a larger size sleeve may be required.  
2. Cut lengths are available. Contact your local distributor for prices ([www.parkerhose.com](http://www.parkerhose.com)).

### Partek Sleeve



### Partek "PS" Sleeve



Hose  
A  
Fittings  
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Parkrimp Crimping Equipment  
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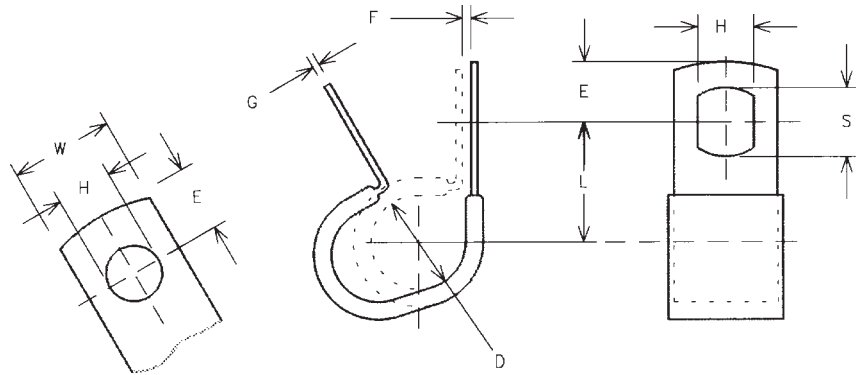
### Accessory Selection Guide - CL Clamp

Vinyl coated steel clamps provide hose support where long lengths are used. Provides neater installation of hose lines, minimizes hose chafing and prevents damage to hose.

**Material:** CR Steel with Zinc Plating

**Coating:** Black Vinyl Plastisol - 0,8 mm (0.03 inch) thick.

**Temperature Range:** -40°C to +107°C (-40°F to +225°F).



### CL Hose Support Clamp Table

Part Number	D		H		L		W		E		F		G		S	
	±0,8 (mm)	±0.031 (inch)	±0,1 (mm)	±0.005 (inch)	±0,8 (mm)	±0.031 (inch)	±0,25 (mm)	±0.01 (inch)	±0,4 (mm)	±0.015 (inch)	±0,8 (mm)	±0.031 (inch)	±0,1 (mm)	±0.004 (inch)	±0,5 (mm)	±0.020 (inch)
CL-6	7,90	0.312	10,30	0.406	17,45	0.687	19,05	0.750	11,10	0.437	0,80	0.031	0,80	0.032	12,70	0.500
CL-7	9,50	0.375	10,30	0.406	18,25	0.718	19,05	0.750	11,10	0.437	1,55	0.062	0,80	0.032	12,70	0.500
CL-8 +	11,10	0.437	10,30	0.406	19,05	0.750	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-9	12,70	0.500	10,30	0.406	19,85	0.781	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-10 +	14,25	0.562	10,30	0.406	20,60	0.812	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-11	15,90	0.625	10,30	0.406	21,40	0.843	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-12	17,45	0.687	10,30	0.406	22,20	0.875	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-13	19,05	0.750	10,30	0.406	23,00	0.906	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-14	20,60	0.812	10,30	0.406	23,80	0.937	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-15 +	22,20	0.875	10,30	0.406	24,60	0.968	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-16	23,80	0.937	10,30	0.406	25,40	1.000	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-17	25,40	1.000	10,30	0.406	26,20	1.031	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-18 +	26,95	1.062	10,30	0.406	26,95	1.062	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-19	28,60	1.125	10,30	0.406	27,75	1.093	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-20 +	30,20	1.188	13,50	0.531	31,75	1.250	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-21	31,75	1.250	13,50	0.531	32,55	1.281	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-22 +	33,30	1.312	13,50	0.531	33,30	1.312	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-23	34,90	1.375	13,50	0.531	34,10	1.343	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-24 +	36,50	1.437	13,50	0.531	34,90	1.375	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-25	38,10	1.500	13,50	0.531	35,70	1.406	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-26 +	39,65	1.562	13,50	0.531	36,50	1.437	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-27 +	41,25	1.625	13,50	0.531	37,30	1.468	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-29	44,45	1.750	13,50	0.531	38,90	1.531	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-31 +	47,65	1.875	13,50	0.531	40,45	1.593	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-33	50,80	2.000	13,50	0.531	42,85	1.687	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-36 +	55,55	2.187	13,50	0.531	46,00	1.812	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-37	57,15	2.250	13,50	0.531	46,00	1.812	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-38 +	58,70	2.312	13,50	0.531	49,20	1.937	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-41 +	63,50	2.500	13,50	0.531	50,80	2.000	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-43	66,65	2.625	13,50	0.531	58,70	2.312	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625

+ Non-Standard



Hose  
A  
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Parkrimp Crimping Equipment  
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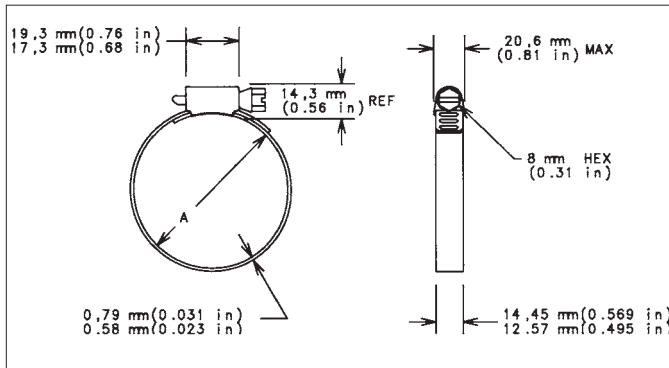
## Accessory Selection Guide

### HC Clamp

The Parker HC Clamp is a stainless steel worm gear clamp designed for low pressure industrial hose applications.

**Material:** Stainless Steel

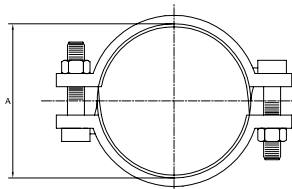
**Specifications:** SAE J1508, Type F and Type HD



### HC Hose Clamp Table

Part Number	Size (SAE)	"A" Clamp Diameter			
		Minimum		Maximum	
		mm	inch	mm	inch
HC-6	-8	12	0.48	25	1.00
HC-8	-10	13	0.50	28	1.12
HC-10	-12	13	0.50	32	1.25
88HC-12	-16	19	0.75	38	1.50
88HC-16	-20	19	0.75	44	1.75
88HC-20	-24	25	1.00	51	2.00
88HC-24	-28	33	1.31	57	2.25

### 88DB Series Heavy Duty Hose Clamp (Double Bolt Hose Clamp)



# Part Number	○ Hose inch	
	88DB-12	3/4
88DB-16	1	-16
88DB-20	1-1/4	-20
88DB-24	1-1/2	-24
88DB-32	2	-32

### 88HC-H Series Hose Clamp (High Torque Wormgear)

**Note:** See 88 Series Assembly Instructions for proper 88HC-H clamp attachment.



# Part Number	○ Hose inch	
	88HC-16H*	3/4*
88HC-16H	1	-16
88HC-20H	1-1/4	-20
88HC-32H*	1-1/2*	-24*
88HC-32H	2	-32
88HC-40H	2-1/2	-40
88HC-48H	3	-48

Hose  
A

Fittings  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

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## Protection Shields (HP, HT, and HP-B)

Prevent hose abrasion while extending your hose life. Parker Hose Protection Shields extend hose life by protecting the hose from abrasion that occurs when hose rubs against other hose, metal or concrete. Parker hose shields are resistant to oil, lubricants, gasoline, most solvents and can withstand ambient temperatures from -40° to +300° F. Easily installed and secured by cable ties without disconnecting any hose lines. Use with hose from 1/4" to 2" I.D.

- ◆ Eliminate hose abrasion on concrete, metal or any rough surface.
- ◆ Guard against hose deterioration on mobile hydraulic equipment.
- ◆ Let Parker fill all your hydraulic and pneumatic hose product needs.

Hose Protector Shields are a fast and extremely cost effective way to isolate fluid lines from direct contact with other lines, components or structural members. They're available in 4-inch, 6-inch and 8-inch lengths and the width can be trimmed to satisfy a variety of situations.

These flexible protectors simply clamp around the hose and are securely held in place by nylon cable ties which are included. The cable ties are recessed in molded grooves to protect them from abrasion. **You don't need to disconnect a line to install a Parker Hose Protector Shield the way you do with a continuous tubular sleeve. Just wait until the installation is up and running to see exactly where contact needs to be prevented.**

Parker Hose Protector Shields are available in bulk quantities and in convenient assortments in 4", 6" and 8" sizes. Cable ties are included with all protectors and are also available in bulk.

### Hose Shields

HP-B-13X18-KIT    2 ea. HP-13 RFL  
                           2 ea. HP-15 RFL  
                           4 ea. HP-18 RFL

### Tie Wraps

HT-12-KIT            30 ea. HT-12 Tie Wraps  
 HT-16-KIT            30 ea. HT-16 Tie Wraps  
 HT-22-KIT            15 ea. HT-22 Tie Wraps

20 Hose Protectors and 60 Tie Wraps for each size are in point of purchase display box.

HP-B-13-RFL        10 ea. HP-B-13 Hose Protectors (4").  
                           30 ea. HT-12 Tie Wraps in a sealed plastic bag.  
 HP-B-15-RFL        10 ea. HP-B-15 Hose Protectors (6").  
                           30 ea. HT-16 Tie Wraps in a sealed plastic bag.  
 HP-B-18-RFL        5 ea. HP-B-18 Hose Protectors (8").  
                           15 ea. HT-22 Tie Wraps in a sealed plastic bag.



Contact your authorized Parker Hose Products Distributor for pricing and delivery information.

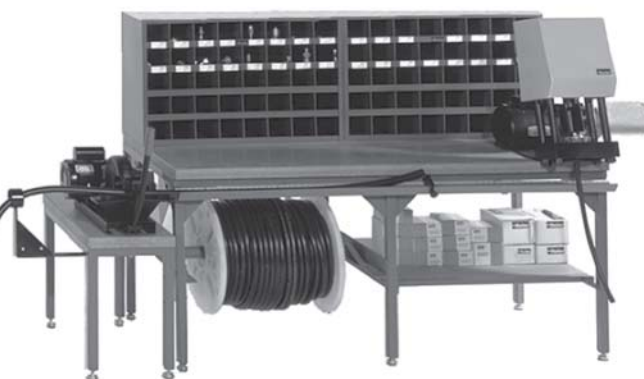
**Note:** Parker Hose Protector Shield products are intended to prevent damage. They are not suitable as patches or repairs for lines which are already damaged or worn beyond safe use standards.

## HPD Hose Assembly Workstations



Hose Products Division knows what you need — and WE'RE STATIONED TO DELIVER!  
Parker Hose Assembly Workstations has five different components offering the best possible setup for hose assembly fabrication. These Workstations are ideal for plant hose assembly production sites and over-the-counter business locations.

Parker Workstations are designed to rigid quality specifications with features that service your needs...



The complete on-site complete hose assembly workstation design (above) includes:

- TH7-5-C—6' table with 1 hose reel and 1 bottom shelf
- TH7-6—16 hose reel system, with rotating base
- TH7-7—15" wide table set up for Parker 239 or 339 Cut-Off Saw
- (2) 40B-Cabinet 40 openings - 4-1/2" x 4-1/2" x 12" in size
- TH7-6-C—Optional overhead crane
- TH7-5-HT—Optional 6' measured hose trough with adjustable hose stop

### Specifications: HoseFab Table (heavy duty)

- Laminated wood table top
- 1-1/2" square tubing structure
- Gussetted corner braces
- 6-leg design
- All legs have adjustable feet
- Hose reel/shelf combinations
- 40B-Cabinet or 72B-Cabinet for fitting storage
- *Optional: Hose trough for measurement of hose*
  - Calibrated to line up to Saw Table
  - Adjustable stop for standard length cuts
  - Built-in tape measure

### Specifications: Rotary Reel Rack

- (16) Hose reel capacity
- Compact design
- Rotates for 1 man use
- Center post bolts to floor in 4 places
- *Optional: Overhead crane*

### Specifications: Saw Table

- Calibrated to line up to Hose trough
- Adjustable feet
- Mounts to 6-foot bench

### Specifications: 3/4 Reel Rack

- Free standing 3 reel rack
- Bolts to floor
- *Optional: 4th reel capacity with wall mounts*



Pictured left is a complete on-site hose assembly workstation, the Parker Kart:

The Parker Kart, TH7-4, is a portable all-in-one unit designed to hold a Minikrimp, Karrykrimp, Karrykrimp 2, or Parkrimp 1; a 239 or 339 Cut-off Saw; 4 reels of hose; and has a 40 bin cabinet with 3 drawers for tools. *The TH7-4 can be customized to fit your specific hose assembly needs. Contact Parker HPD or your Parker Hose distributor for details.*

**Note:** Part number TH7-4 does not include hose, fittings or equipment.

**Note:** Part number and specifications of components for both workstations are listed on the following pages.

Hose  
A

Fittings  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
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Hose  
**A**



Fittings  
**B**

Parkrimp  
Crimping  
Equipment  
**C**



Hose  
Assembly  
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**D**



Adapters  
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### HoseFab Table

Heavy duty constructed table for mounting Minikrimp, Karrykrimp, Karrykrimp 2, or Parkrimp 1. HoseFab Table is available in 3 versions to meet your requirements. Options include two 40B-Cabinets or 72B-Cabinets for fitting storage.

Part Number	Description
TH7-5-R	6' table with 2 hose reels
TH7-5-S	6' table with 2 bottom shelves
TH7-5-C	6' table with 1 hose reel and 1 bottom shelf
TH7-5-HT	Optional 6' measured hose trough with adjustable hose stop
40B-Cabinet	40 openings - 4-1/2" x 4-1/2" x 12" in size
72B-Cabinet	72 openings - 4-1/2" x 4-1/2" x 12" in size

Table measurements are: Height - 31-3/4"  
Width - 29"  
Length - 72"

### Rotary Reel Rack

16 Hose reel capacity that fits in a compact area. Supplied with heavy duty casters which allow for ease of turning, even when fully loaded. Optional overhead crane available.

Part Number	Description
TH7-6	16 hose reel system, with rotating base
TH7-6-C	Optional overhead crane

Rack measurements are: Height - 104" (120" with optional overhead crane)  
Width - 67"  
Length - 67"

### Saw Table

The Saw Table, specially designed for Parker 239 or 339 Hose Cut-Off Saw, attaches directly to the HoseFab Table. The Hose Guide lines up the hose to the saw blade for accurate cutting.

Part Number	Description
TH7-7	15" wide table set up for Parker 239 or 339 Cut-Off Saw

Table measurements are: Height - 18"  
Width - 28"  
Length - 14"

### 3/4 Reel Rack

Compact in its design, the standard version will hold 3 reels of hose. Optional 4th reel capacity designed with wall anchor mounts.

Part Number	Description
TH7-8	Upright 3 hose reel rack
TH7-8-F	Optional extension with wall anchor for 4th reel

Rack measurements are: Height - 59" (82-1/2" with 4th reel option)  
Width - 27-3/4"  
Length - 27-1/2"

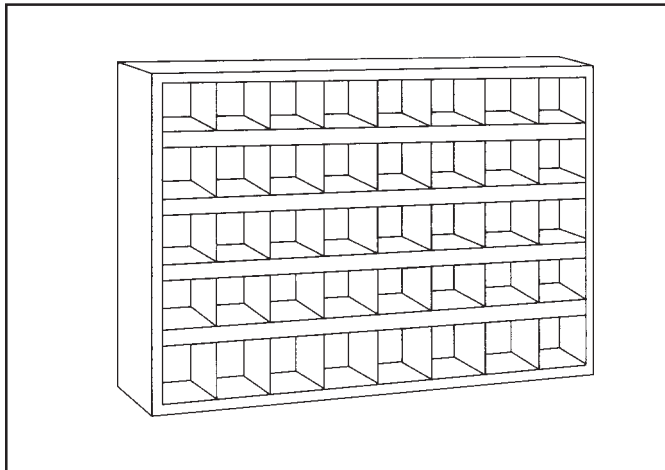


## Parker Kart Part No. TH7-4

Parker Kart organizes and stores all your necessary Parker hoses, fittings, power and hand tools. Everything you need to make fast hose assemblies on site. As a valued addition to any facility, Parker Kart will save on downtime and labor costs, as well as eliminate errors in cutting and fitting attachment. With Parker Kart, you'll always have the materials you need, right when and where you need them.

- Easy one-man movement
- Eight-inch urethane casters with brakes
- Forklift carry tubes
- Electric receptacle with cord
- Fitting bins and drawers
- Large tool drawer
- Four hose reel holders
- Choice of Parker crimping equipment
- Optional accessories available

Parker Kart can be customized to fit specific hose assembly needs. Parker Kart does not include hose, fittings or equipment.



## Fitting Stock Bins 72B-Cabinet

36" wide, 43" high, 12" deep, with 72 openings each 4-1/2" x 4-1/2" x 12", heavy duty steel, all welded construction. Product bin labels are available.



## Hose Stock Bins HR6-Hose-Bin

Rugged metal cabinet for stocking coils of Parker hose 36" wide, 28" high, 20" deep, with upright separators to provide 6 compartments varying in width from 4" to 8".

Provides suitable base on which to place the fittings stock bin (top measures 36" x 20", bottom of fittings bin measures 36" x 12".)

Yellow with black "Parker Hose" lettering.

Hose  
**A**

Fittings  
**B**

Parkrimp  
Crimping  
Equipment  
**C**

Hose  
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## Quick Disconnect Couplers --- Industrial Interchange Pneumatic - 20 Series

### Description

20 Series sleeve type couplers will interchange with E-z-mate, 30 Series push-type couplers and other manufacturers' couplers which accept Industrial Interchange nipples that conform to MIL-C4109.

### Special Order Information

The standard 1/4" 20 Series is a brass coupler with a steel valve. The larger sizes are an all steel construction with brass available as an option. To order a 3/8" or 1/2" body size couple with a brass body and a steel sleeve and valve add the prefix "B" to the steel part number, thus: B16.

Add the suffix "N" as well as the "B" prefix to order an all brass coupler with stainless steel locking balls and springs, thus: B25N.

All-brass couplings should be used to avoid corrosion from moisture. Consult factory for specific recommendations.

### Specifications

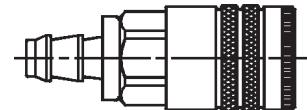
Standard seals are Nitrile. See Chemical Resistant Chart as a reference guide for specific applications that are compatible with Nitrile or consult Parker HPD - Technical Service Department.

**Note:** Denotes Industrial Interchange nipples. Nipples for use with 20 Series couplers are shown on pages F-20 and F-21.

	BODY SIZE		
	1/4	3/8	1/2
Rated Pressure (psi)	300	300	300
Temperature Range (std seals)	-40° to +250° F.		
Locking Device	4 balls	8 balls	8 balls
Vacuum Data (inches Hg)	<b>Not recommended</b>		
Disconnected (coupler only)			
Connected	27.4	27.4	27.4

## Push-Lok Hose Barb\*

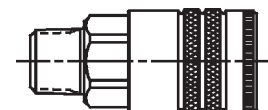
Size	Body Size (inch)	Part Number (Brass)	Part Number (Steel)	Hose I.D.	Dimensions (inch)		
					Overall Length A	Hex Size B	Largest Diameter C
1/4"	1/4	B20-3BP	-	1/4	2.32	0.75	0.88
	1/4	B20-5BP	-	3/8	2.47	0.75	0.88
3/8"	3/8	-	24-5BP	3/8	2.88	0.88	1.06
	1/2	-	16-5BP	3/8	3.35	1.00	1.19
1/2"	1/2	-	16-6BP	1/2	3.46	1.00	1.19



\*Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

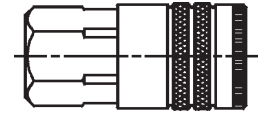
## Male Pipe Thread

Size	Body Size (inch)	Part Number (Brass)	Part Number (Steel)	Thread Size NPTF	Dimensions (inch)		
					Overall Length A	Hex Size B	Largest Diameter C
1/4"	1/4	B22A	-	1/8x27	1.89	0.75	0.88
	1/4	B22	-	1/4x18	2.05	0.75	0.88
	1/4	B22E	-	3/8x18	2.08	0.75	0.88
3/8"	3/8	-	24C	1/4x18	2.36	0.88	1.06
	3/8	B24	24	3/8x18	2.39	0.88	1.06
	3/8	-	24F	1/2x14	2.55	0.88	1.06
1/2"	1/2	-	16E	3/8x18	2.93	1.00	1.19
	1/2	B16	16	1/2x14	3.08	1.00	1.19
	1/2	-	16G	3/4x14	3.21	1.13	1.30



### Female Pipe Thread

Size	Body Size (inch)	Part Number (Brass)	Part Number (Steel)	Thread Size NPTF	Dimensions (inch)		
					Overall Length A	Hex Size B	Largest Diameter C
1/4"	1/4	B23A	-	1/8x27	1.83	0.75	0.88
	1/4	B23	-	1/4x18	1.83	0.75	0.88
	1/4	B23E	-	3/8x18	1.95	0.81	0.94
3/8"	3/8	-	25C	1/4x18	2.22	0.88	1.06
	3/8	B25	25	3/8x18	2.28	0.88	1.06
	3/8	-	25F	1/2x14	2.55	1.00	1.16
1/2"	1/2	-	17E	3/8x18	2.74	1.00	1.19
	1/2	B17	17	1/2x14	2.96	1.00	1.19

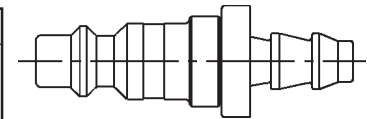


Hose

**A**

### Push-Lok Hose Barb\*\*

Size	Body Size (inch)	Part Number (Brass)	Part Number (Steel)	Hose I.D.	Dimensions (inch)		
					Overall Length D	Exposed Length* E	Largest Diameter G
1/4"	1/4	BH8CP	H8CP	1x4	1.93	1.16	0.69
	1/4	-	H9CP	3x8	2.08	1.31	0.86
	3/8	-	H4EP	1x4	2.02	1.08	0.69
3/8"	3/8	-	H5EP	3x8	2.17	1.23	0.86
	3/8	-	H6EP	1x2	2.31	1.37	0.97
	1/2	-	H4FP	3x8	2.52	1.27	0.86
1/2"	1/2	-	H5FP	1x2	2.66	1.42	0.97



Parkrimp Crimping Equipment

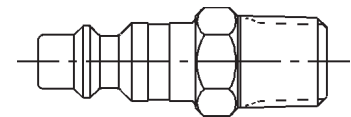
**C**

\*This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

\*\*Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

### Male Pipe Thread

Size	Body Size (inch)	Part Number (Brass)	Part Number (Steel)	Thread Size NPTF	Dimensions (inch)			
					Overall Length D	Exposed Length* E	Hex Size F	Largest Diameter G
1/4"	1/4	-	H0C	1/8x27	1.56	0.80	0.50	0.58
	1/4	BH2C	H2C	1/4x18	1.72	0.95	0.56	0.65
	1/4	-	H2C-E	3/8x18	1.81	1.05	0.69	0.80
3/8"	3/8	-	H00E	1/8x27	1.72	0.77	0.62	0.72
	3/8	-	H0E	1/4x18	1.88	0.93	0.62	0.72
	3/8	BH2E	H2E	3/8x18	1.91	0.96	0.69	0.80
1/2"	3/8	-	H2E-F	1/2x14	2.12	1.18	0.88	1.02
	1/2	-	H0F	3/8x18	2.31	1.07	0.69	0.79
	1/2	BH2F	H2F	1/2x14	2.47	1.22	0.88	1.01
3/4"	1/2	-	H2F-G	3/4x14	2.53	1.29	1.13	1.30
	3/4	-	H2G-F	1/2x14	2.32	1.16	1.00	1.16
	3/4	BH2G	H2G	3/4x14	2.38	1.22	1.06	1.22
	3/4	-	H2G-J	1-11x1/2	2.56	1.40	1.31	1.52



Hose Assembly Equipment

**D**

\*This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

Adapters

**E**

Accessories

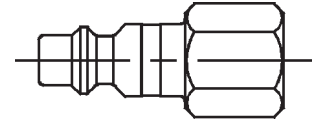
**F**

Appendices

**G**

**Female Pipe Thread**

SIZE	Body Size (inch)	Part Number (Brass)	Part Number (Steel)	Thread Size NPTF D	Overall Length	Exposed Length*	Hex Size	Largest Diameter
					E	F	G	
1/4"	1/4	-	H1C	1/8X27	1.38	0.61	0.50	0.58
	1/4	BH3C	H3C	1/4x18	1.56	0.80	0.62	0.72
	1/4	-	H3C-E	3/8x18	1.60	0.83	0.81	0.94
3/8"	3/8	-	H1E	1/4x18	1.69	0.65	0.62	0.72
	3/8	BH3E	H3E	3/8x18	1.69	0.74	0.81	0.94
	3/8	-	H3E-F	1/2x14	1.84	0.90	1.00	1.16
1/2"	1/2	-	H1F	3/8x18	2.03	0.79	0.81	0.94
	1/2	BH3F	H3F	1/2x14	2.25	1.01	1.00	1.16
	1/2	-	H3F-G	3/4x14	2.38	1.13	1.25	1.44
3/4"	3/4	-	H3G-F	1/2x14	2.22	1.06	1.31	1.52
	3/4	-	H3G	3/4x14	2.22	1.06	1.31	1.52
	3/4	-	H3G-J	1-11x1/2	2.41	1.25	1.56	1.80



\*This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

**Hydraulic Quick Disconnect Couplers ---**

See Quick Coupling Division Catalog 3800 or [www.parker.com/QCD](http://www.parker.com/QCD).

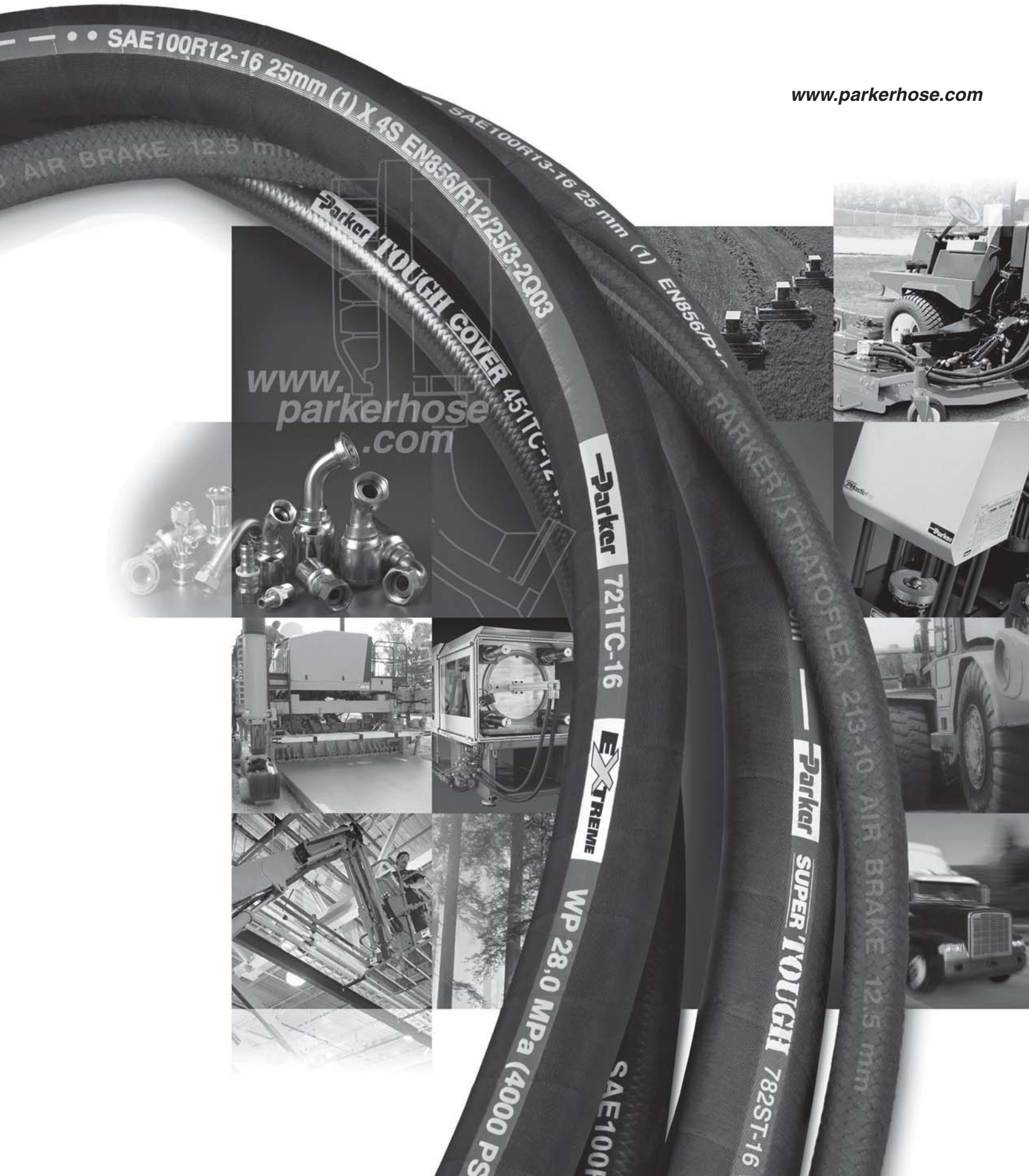
Parker Hannifin Corporation  
Quick Coupling Division  
8145 Lewis Road  
Minneapolis, MN 55427  
Phone: (763) 544-7781  
Fax: (763) 544-3418

Hose	<b>A</b>
Fittings	<b>B</b>
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# Appendices

[www.parkerhose.com](http://www.parkerhose.com)



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Fittings <b>B</b>
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**Warning:** This chemical compatibility guide must not be used in conjunction with any other compatibility guides from previous or future catalog editions, bulletins or publications. Incorrect use of these charts could result in death, personal injury or property damage.

## Hose Selection by Medium and Hose Type

This hose compatibility chart is a ready reference of Parker hose compatibility with various fluid media. It is intended as a guide to chemical compatibility with inner tube materials and assembly lubricant applied internally. The specific recommendations are based upon field experience, the advice of various polymer or fluid suppliers, and specific laboratory experiments. **It must be stressed, however, that this information is offered only as a guide.** Final hose selection depends also upon pressure, fluid temperature, ambient temperature, and special requirements or variations, which may not be known by Parker Hannifin. Legal and other regulations must be followed with particular care. Where an external compatibility problem may occur, or for fluids not listed, we encourage you to first contact the fluid manufacturer for a recommendation prior to contacting your Parker Hannifin Field Representative or the Technical Service Department, Hose Products Division, Wickliffe, Ohio.

### Use the Chart as Follows:

1. Locate medium to be carried using the Chemical Resistance Table on the following pages.
2. Select suitability of hose and fitting material from the table based on the letter rating in the table. See resistance rating key below for explanation of compatibility ratings. See list of numerals below for an explanation when a numeral, or a numeral and a letter rating are present in the table.
3. The Column headings on the Chemical Resistance Table, I, II, III, IV, V, refer to specific groups of hoses.
4. Locate hose part number under Column I, II, III, IV, V from the list below.
5. For fitting material availability refer to appropriate fitting section of catalog.
6. Check hose specifications in this catalog. Contact Hose Division Technical Service Department on any items not cataloged.

### Resistance Rating Key

A = Preferred, good to excellent with little or no change in physical properties.  
 F = Fair, marginal or conditional with noticeable affects on physical properties.  
 X = Unsuitable, severe affects on physical properties.  
 ~ = No rating, insufficient information.

### Numerals

1. For air or gaseous applications above 250 PSI (1,7 MPa), the cover should be pin pricked.
2. Legal and insurance regulations must be considered. Contact Technical Service Department for more information.
3. Push-Lok hoses (**801, 804, 821, 821FR, 831, 836**) are not recommended for any type of fuel.
4. Use **285, 235 or 244** hoses. The compatibility of the systems refrigeration oil with these hoses needs to be evaluated on a case by case basis. Contact HPD Technical Service Department for more information. Do not use mineral oil or Alkyl Benzene refrigeration oils with **244** hose. Chemical compatibility does not imply low permeation.
5. 150°F (65°C) maximum.
6. Satisfactory at some concentrations and temperatures, unsatisfactory at others.
7. For phosphate ester fluids use **304, 424, 774 or 804** hoses.
8. Acceptable for flushing hose assemblies.
9. **221FR** hose recommended.
10. For dry air applications, hoses with inner tubes from columns IV, and V are preferred. See hose specifications for maximum recommended temperatures with air.
11. 212°F (100°C) maximum.
12. 250°F (121°C) maximum.
13. Use **SS23CG** or **SS25UL**
14. Use **SS23CG**

### Hose Types

#### Column I

AX, BXX, CN, 201/261, 225, 301, 341, 421, 601, 701, 721, 721TC, 731, 78C, 781, 791TC, 881

#### Column II

SS25UL, 301LT, 351TC, 351ST, 421WC, 431, 451TC, 451ST, 471TC, 471ST, 801, 811, 811HT

#### Column III

221FR, 381, 472TC, 482TC, 482ST, 772TC, 772ST, 782TC, 782ST, 792TC, 792ST, 821, 831

#### Column IV

206, 213, 266, 293, 426, 436, 821FR, 836

#### Column V

304, 424, 604, 774, 804

### Caution:

The fluid manufacturer's recommended maximum operating temperature for any specific name-brand fluid should be closely observed by the user. Specific name brand fluids can vary greatly between manufacturers even though they are considered to be from the same family or type of fluids. Using fluids above the manufacturers maximum recommended temperature can cause the fluid to break down, creating by-products that can be harmful to elastomers or other materials used in the system. When selecting a hose type, both the fluid manufacturer and hose manufacturers maximum temperature limit must be taken into consideration, with the lower of the two taking precedence.





**Warning:** This chemical compatibility guide must not be used in conjunction with any other compatibility guides from previous or future catalog editions, bulletins or publications. Incorrect use of these charts could result in death, personal injury or property damage.

<b>Hose and Fitting Selection</b> (page 1 of 7)		I	II	III	IV	V	STEEL	BRASS	SS
<b>A</b> Hose	<b>MEDIUM</b>	A	A	A	A	A	A	A	A
	3M FC-75	A	A	A	A	A	A	A	A
	Acetic Acid	X	X	X	A	6	X	X	A
	Acetone	X	X	X	A	A	A	A	A
	Acetylene	X	X	X	X	X	-	-	-
	AEROSHELL Turbine Oil 500	X	X	X	X	X	A	A	A
	Air	A, 1, 10	A, 1, 10	A, 1, 10	A, 1, 10	A, 1, 10	A	A	A
	Air (dry)	X	F, 1, 10	F, 1, 10	A, 1, 10	A, 1, 10	A	A	A
	Alcohol (Methanol-Ethanol)	F	F	F	F	F	F	A	A
	Ammonia (Anhydrous)	X	X	X	X	X	X	X	X
<b>B</b> Fittings	Ammonium Chloride	A	A	A	A	A	X	X	X
	Ammonium Hydroxide	F	F	F	A	A	F	X	A
	Ammonium Nitrate	A	A	A	F	A	F	X	A
	Ammonium Phosphate	A	A	A	A	A	X	X	F
	Ammonium Sulfate	A	A	A	A	A	F	X	F
	Amoco 32 Rykon	X	A	A	F	X	A	A	A
	Ampol PE 46	X	X	X	X	A, 7	A	A	A
	AMSOIL Synthetic ATF	F	A	A	A	X	A	A	A
	Amyl Alcohol	X	X	X	F	F	X	A	A
	Anderol 495,497,500,750	X	X	X	F	X	A	A	A
<b>C</b> Parkrimp Crimping Equipment	Aniline	X	X	X	F	A	A	X	A
	Animal Fats	X	F	F	F	F	6	6	A
	Aquacent Light, Heavy	X	A	A	X	X	A	A	A
	Aromatic 100,150	X	F	F	-	X	A	A	A
	Arrow 602P	A	A	A	A	X	A	A	A
	Asphalt	X	F	F	F	X	F	F	A
	ASTM #3 Oil	F	F	F	F	X	A	A	A
	ATF-M	F	A	A	A	X	A	A	A
	Automotive Brake Fluid	X	X	X	X	-	X	X	X
	AW 32,46,68	F	A	A	A	X	A	A	A
<b>D</b> Hose Assembly Equipment	BCF	F	F	F	F	-	A	A	A
	Benz Petraulic 32,46,68,100,150,220,320,460	F	A	A	A	X	A	A	A
	Benzene, Benzol	X	X	X	F	X	A	A	A
	Benzgrind HP 15	-	A	A	A	X	A	A	A
	Benzine	X	X	X	F	X	A	A	A
	Biodegradable Hydraulic Fluid 112B	X	A	A	X	-	A	A	A
	Borax	F	F	F	F	A	F	A	A
	Boric Acid	A	A	A	X	A	X	6	A
	Brayco 882	X	A	A	A	X	A	A	A
	Brayco Micronic 745	X	X	A	F	X	A	A	A
<b>E</b> Adapters	Brayco Micronic 776RP	F	A	A	F	X	A	A	A
	Brayco Micronic 889	X	F	F	-	X	A	A	A
	Brine	F	F	F	A	A	X	F	F
	Butane	See numerals 2 and 13					A	A	A
	Butyl Alcohol, Butanol	F	F	F	F	F	F	F	A
	Calcium Chloride	A	A	A	F	A	F	F	X
	Calcium Hydroxide	A	A	A	A	A	A	A	A
	Calcium Hypochlorite	X	X	X	A	A	X	F	X
	Calibrating Fluid	A	A	A	A	X	A	A	A
	Carbon Dioxide, gas	F	F	F	F	6	A	A	A
<b>F</b> Accessories	Carbon Dioxide, liquid	X	X	X	X	X	X	X	X
	Carbon Disulfide	X	X	X	F	X	A	F	A
	Carbon Monoxide (hot)	F	F	F	F	6	F	6	A
	Carbon Tetrachloride	X	X	X	F	X	6	6	6
	Carbonic Acid	F	F	F	X	F	X	X	F
	Castor Oil	A	A	A	A	A	A	A	A
	Castrol 5000	X	F	F	A	X	A	A	A



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<b>MEDIUM</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>STEEL</b>	<b>BRASS</b>	<b>SS</b>
Cellosolve Acetate	X	X	X	X	A	X	X	A
Celluguard	A	A	A	-	A	A	A	A
Cellulube 90, 150, 220 300, 550, 1000	X	X	X	-	A	A	A	A
Chevron Clarity AW 32, 46, 68	A	A	A	A	X	A	A	A
Chevron FLO-COOL 180	F	F	F	-	X	A	A	A
Chevron FR-8, 10, 13, 20	X	X	X	X	A, 7	A	A	A
Chevron Hydraulic Oils AW MV 15, 32, 46, 68, 100	A	A	A	A	X	A	A	A
Chevron HyJet IV (9)	X	X	X	X	A, 7	A	A	A
Citric Acid	F	A	A	X	A	X	X	6
Commonwealth EDM 242, 244	A	A	A	-	X	A	A	A
CompAir CN300	X	X	X	F	X	A	A	A
CompAir CS100, 200, 300, 400	X	X	X	F	X	A	A	A
Coolanol 15, 20, 25, 35, 45	A	A	A	A	A	A	A	A
Copper Chloride	F	A	A	X	A	X	X	X
Copper Sulfate	A	A	A	X	A	X	X	F
Cosmolubric HF-122, HF-130, HF-144	X	F	A	X	X	A	A	A
Cosmolubric HF-1530	X	F	A	X	X	A	A	A
Cottonseed Oil	F	A	A	F	X	A	A	A
CPI CP-4000	X	X	X	F	X	A	A	A
Crude Petroleum Oil	F	A	A	A	X	F	F	A
CSS 1001 Dairy Hydraulic Fluid	F	A	A	A	X	A	A	A
Daphne AW32	A	A	A	A	X	A	A	A
Dasco FR150, 200, 310	F	A	A	-	A	A	A	A
Dasco FR300, FR2550	X	X	X	-	X	A	A	A
Dasco FR355-3	X	F	A	X	X	A	A	A
Deicer Fluid 419R	A	A	A	-	-	A	A	A
Deionized Water	A	A	A	A	A	F	F	A
Dexron II ATF	F	A	A	A	X	A	A	A
Dexron III ATF	X	F, 11	F, 11	A, 12	X	A	A	A
Diesel Fuel	F, 3	A, 3	A, 3	A, 3	X	A	A	A
Diester Fluids	X	X	X	F	X	A	A	A
Dow Corning DC 200, 510, 550, 560, FC126	A	A	A	F	-	A	A	A
Dow HD50-4	F	F	F	-	-	-	-	A
Dowtherm A,E	X	X	X	F	X	A	A	A
Dowtherm G	X	X	X	X	X	A	A	A
Duro AW-16, 31	A	A	A	-	X	A	A	A
Duro FR-HD	A	A	A	-	X	A	A	A
EcoSafe FR-68	A	A	A	-	X	A	A	A
Ethanol	F	F	F	F	F	F	A	A
Ethers	X	X	X	F	X	A	A	A
Ethyl Acetate	X	X	X	F	F	F	A	A
Ethyl Alcohol	F	F	F	F	F	F	A	A
Ethyl Cellulose	F	F	F	F	F	X	F	F
Ethyl Chloride	X	X	X	X	A	F	F	F
Ethylene Dichloride	X	X	X	F	X	X	A	X
Ethylene Glycol	F	A	A	A	A	A	F	A
Exxon 3110 FR	A	A	A	A	X	A	A	A
Exxon Esstic	A	A	A	A	A	A	A	A
Exxon Nuto H 46, 68	A	A	A	A	X	A	A	A
Exxon Tellura Industrial Process Oils	A	A	A	A	X	A	A	A
Exxon Terresstic, EP	A	A	A	A	A	A	A	A
Exxon Turbo Oil 2380	X	F	F	F	X	A	A	A
Exxon Univolt 60, N61	F	A	A	A	X	A	A	A
FE 232 (Halon)	X	X	X	X	F	A	A	A
Fenso 150	-	A	A	-	X	A	A	A
Formaldehyde	X	X	X	A	A	X	F	A

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<b>A</b> Hose	<b>MEDIUM</b>								
	Formic Acid	X	X	X	X	A	X	6	X
	Freons see refrigerants	-	-	-	-	-	-	-	-
	Fuel Oil	F	A	A	A	X	A	A	A
	Fyre-Safe 120C, 126, 155, 1090E, 1150, 1220, 1300E	X	X	X	X	A, 7	A	A	A
	Fyre-Safe 200C, 225, 211	F	A	A	A	A	A	A	A
	Fyre-Safe W/O	A	A	A	A	X	A	A	A
	Fyrguard 150, 150-M, 200	A	A	A	A	A	A	A	A
	Fyrquel 60, 90, 150, 220, 300, 550, 1000	X	X	X	X	A, 7	A	A	A
	Fyrquel EHC, GT, LT, VPF	X	X	X	X	A, 7	A	A	A
	Fyrtek MF, 215, 290, 295	X	X	X	X	X	A	A	A
	Gardner-Denver GD5000, GD8000	X	X	X	F	X	A	A	A
	Gasoline	See numeral 9					A	A	A
	Glue	F	F	F	-	X	A	F	A
	Glycerine, Glycerol	A	A	A	A	A	A	F	A
	Grease	A	A	A	A	X	A	A	A
	Gulf-FR Fluid P37, P40, P43, P45, P47	X	X	X	F	A	A	A	A
	H-515 (NATO)	A	A	A	-	X	A	A	A
	Halon 1211, 1301	F	F	F	F	-	A	A	A
Helium Gas	X	X	X	X	X	A	A	A	
Heptane	X	F	F	A	X	A	A	A	
Hexane	X	F	F	A	X	A	A	A	
HF-20, HF-28		A	A	A	A	A	A	A	
Houghto-Safe 1055, 1110, 1115, 1120, 1130 (9)	X	X	X	X	A, 7	A	A	A	
Houghto-Safe 271 to 640	F	A	A	F	A	A	A	A	
Houghto-Safe 419R Deicer Fluid	A	A	A	-	-	A	A	A	
Houghto-Safe 5046, 5046W, 5047-F	A	A	A	A	X	A	A	A	
HP 100C (Jack hammer oil)	F	A	A	A	X	A	A	A	
HPWG 46B	F	A	A	F	-	A	A	A	
Hul-E-Mul	A	A	A	-	X	A	A	A	
Hychem C, EP1000, RDF	A	A	A	A	A	A	A	A	
Hydra Safe E-190	A	A	A	F	X	A	A	A	
Hydra-Cut 481, 496	A	A	A	-	X	A	A	A	
Hydrafluid 760	A	A	A	-	X	A	A	A	
Hydrochloric Acid	X	X	X	X	X	X	X	X	
Hydrofluoric Acid	X	X	X	X	X	X	6	X	
Hydrogen Gas	X	X	X	X	X	A	A	A	
Hydrogen Peroxide	X	X	X	F	X	X	X	6	
Hydrogen Sulfide	X	X	X	X	A	X	X	6	
Hydrolube	A	A	A	F	A	A	A	A	
Hydrolubric 120-B, 141, 595	F	A	A	F	A	A	A	A	
Hydrosafe Glycol 200	A	A	A	A	A	A	F	A	
HyJet IV	X	X	X	X	A, 7	A	A	A	
Ideal Yellow 77	A	A	A	A	X	A	A	A	
Imol S150 to S550	X	X	X	-	-	A	A	A	
Ingersoll Rand SSR Coolant	X	X	X	F	X	A	A	A	
Isocyanates	F	F	F	F	X	A	-	A	
Isooctane	X	F	F	A	X	A	A	A	
Isopar H	X	X	X	X	X	A	A	A	
Isopropyl Alcohol	F	F	F	F	F	F	A	A	
Jayflex DIDP	X	X	X	X	A	A	A	A	
JP3 and JP4	X	A3	A3	-	X	A	A	A	
JP5	X	A3	A3	F	X	A	A	A	
JP9	X	X	X	X	X	A	-	A	
Kaesar 150P, 175P, 325R, 687R	X	X	X	F	X	A	A	A	
Kerosene	X	A	A	F	X	A	A	A	
KSL-214, 219, 220, 222	X	X	X	F	X	A	A	A	

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Lacquer	X	X	X	F	X	X	A	A	
Lacquer Solvents	X	X	X	F	X	X	A	A	
Lactic Acids	X	X	X	X	X	X	X	A	
Lindol HF	X	X	X	F	A	A	A	A	
Linseed Oil	A	A	A	A	A	A	A	A	
LP-Gas	See numeral 13					A	A	A	
Magnesium Chloride	A	A	A	A	A	X	X	X	
Magnesium Hydroxide	F	F	F	A	A	F	F	F	
Magnesium Sulfate	A	A	A	A	A	A	F	A	
Mercaptans	X	X	X	X	X	-	-	-	
Methane	See numeral 14					A	A	A	
Methanol	F	F	F	F	F	F	A	A	
Methyl Alcohol	F	F	F	F	F	F	A	A	
Methyl Chloride	X	X	X	F	X	A	A	A	
Methyl Ethyl Ketone (MEK)	X	X	X	F	X	F	A	A	
Methyl Isopropyl-Ketone	X	X	X	X	X	F	A	A	
Metsafe FR303, FR310, FR315, FR330, FR350	X	X	X	X	X	A	A	A	
Microzol-T46	X	A	A	-	X	A	A	A	
MIL-B-46176A	X	X	X	X	X	X	X	X	
MIL-H-46170	X	F	F	F	X	A	A	A	
MIL-H-5606	F	A	A	A	X	A	A	A	
MIL-H-6083	F	A	A	A	X	A	A	A	
MIL-H-7083	F	A	A	A	X	A	A	A	
MIL-H-83282	F	A	A	A	X	A	A	A	
MIL-L-2104, 2104B	F	A	A	A	X	A	A	A	
MIL-L-23699	X	X	X	X	X	A	A	A	
MIL-L-7808	F	A	A	-	X	A	A	A	
Mine Guard FR	A	A	A	-	A	A	A	A	
Mineral Oil	A	A	A	F	X	A	A	A	
Mineral Spirits	8	8	8	8	X	A	A	A	
Mobil Aero HFE	F	A	A	F	X	A	A	A	
Mobil DTE 11M, 13M, 15M, 16M, 18M, 19M	F	A	A	A	X	A	A	A	
Mobil DTE 22, 24, 25, 26	F	A	A	A	X	A	A	A	
Mobil EAL 224H	X	A	A	X	-	A	A	A	
Mobil EAL Artic 10, 15, 22,32, 46, 68, 100	X	X	X	X	X	A	A	A	
Mobil Glygoyle 11, 22, 30, 80	A	A	A	-	X	A	A	A	
Mobil HFA	F	A	A	A	X	A	A	A	
Mobil Jet 2	X	F	F	A	X	A	A	A	
Mobil Nyvac 20, 30, 200, FR	F	A	A	F	A	A	A	A	
Mobil Rarus 824, 826, 827	X	X	X	F	X	A	A	A	
Mobil SHC 500 Series	F	A	A	A	X	A	A	A	
Mobil SHC 600 Series	F	A	A	A	X	A	A	A	
Mobil SHC 800 Series	F	A	A	A	X	A	A	A	
Mobil SHL 624	-	A	A	A	X	A	A	A	
Mobil Vactra Oil	A	A	A	F	X	A	A	A	
Mobil XRL 1618B	X	X	X	X	A, 7	A	A	A	
Mobilfluid 423	F	A	A	A	X	A	A	A	
Mobilgear SHC 150, 220, 320, 460, 680	F	F	F	F	X	A	A	A	
Mobilrama 525	A	A	A	F	X	A	A	A	
Molub-Alloy 890	X	X	X	F	X	A	A	A	
Moly Lube "HF" 902	F	F	F	F	X	A	A	A	
Monolec 6120 Hydraulic Oil	A	A	A	A	X	A	A	A	
Morpholine (pure additive)	X	X	X	X	X	X	X	A	
Naptha	X	F	F	A	X	A	A	A	
Napthalene	X	X	X	F	X	A	A	A	
Natural Gas	See numeral 14					A	A	A	

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MEDIUM	I	II	III	IV	V	STEEL	BRASS	SS
Nitric Acid	X	X	X	X	X	X	X	F
Nitrobenzene	X	X	X	F	X	X	X	A
Nitrogen, gas	F, 1	F, 1	F, 1	F, 1	F, 1	A	A	A
Nitrogen, liquid	X	X	X	X	X	X	X	X
NORPAR 12, 13, 15	8	8	8	8	X	A	A	A
Nuto H 46, 68	A	A	A	A	X	A	A	A
Nyvac 20, 30, 200, FR	F	A	A	F	A	A	A	A
Nyvac Light	X	X	X	-	A	A	A	A
Oceanic HW	F	A	A	F	X	A	A	A
Oxygen	X	X	X	X	X	X	A	A
Ozone	F	F	F	-	A	A	A	A
Pacer SLC 150, 300, 500, 700	X	X	X	F	X	A	A	A
Pennzbell AWX	F	A	A	F	X	A	A	A
Perchloroethylene	X	X	X	X	X	F	X	A
Petroleum Ether	X	F	F	F	X	A	A	A
Petroleum Oils	A	A	A	A	X	A	A	A
Phenol (Carbolic Acid)	X	X	X	A	X	X	F	A
Phosphate Ester Blends	X	X	X	X	X	A	A	A
Phosphate Esters	X	X	X	X	A, 7	A	A	A
Phosphoric Acid	X	X	X	X	X	X	X	F
Plurasafe P 1000, 1200	F	A	A	A	F	A	A	A
Polyalkylene Glycol	A	F	F	-	X	A	A	A
Polyol Ester	X	F	A	X	X	A	A	A
Potassium Chloride	A	A	A	A	A	X	F	F
Potassium Hydroxide	X	X	X	F	A	6	X	A
Potassium Sulfate	A	A	A	A	A	A	A	A
Propane	See numeral 13					A	A	A
Propylene Glycol	F	A	A	A	A	F	F	F
Pydraul 10-E, 29-E, 50-E, 65-E, 90-E, 115-E	X	X	X	X	A, 7	A	A	A
Pydraul 230-C, 312-C, 68-S	X	X	X	X	A, 7	A	A	A
Pydraul 60, 150, 625, F9	X	X	X	X	A, 7	A	A	A
Pydraul 90, 135, 230, 312, 540, MC	X	X	X	X	X	A	A	A
Pydraul A-200	X	X	X	F	X	A	A	A
Pyro Gard 43, 230, 630	X	X	X	X	X	A	A	A
Pyro Gard C, D, R, 40S, 40W	F	A	A	F	X	A	A	A
Pyro Guard 53, 55, 51, 42	X	X	X	X	A, 7	A	A	A
Quintolubric 700	A	A	A	A	A	A	F	A
Quintolubric 807-SN	F	A	A	-	X	A	A	A
Quintolubric 822, 833	X	F,5	A,5	X	X	A	A	A
Quintolubric 822-68EHC	X	F,5	A,5	-	-	A	A	A
Quintolubric 888	X	F,5	A,5	X	X	A	A	A
Quintolubric 957, 958	F	A	A	F	A	A	A	A
Quintolubric N822-300	~	~	A	-	-	A	A	A
Rando	A	A	A	A	X	A	A	A
Rayco 782	X	F	A	X	X	X	X	X
Refrigerant 124	See numeral 4					A	A	A
Refrigerant Freon 113, 114	X	X	X	X	X	A	A	A
Refrigerant Freon 12	See numeral 4					A	A	A
Refrigerant Freon 22	See numeral 4					A	A	A
Refrigerant Freon 502	See numeral 4					A	A	A
Refrigerant HFC134A	See numeral 4					A	A	A
Reolube Turbofluid 46	X	X	X	X	A, 7	A	A	A
Rotella	A	A	A	A	X	A	A	A
Royal Bio Guard 3032, 3046, 3068, 3100	X	~	A	X	X	A	A	A
Royco 2200, 2210, 2222, 2232, 2246, 2268	X	X	X	X	X	A	A	A
Royco 4032, 4068, 4100, 4150	X	X	X	F	X	A	A	A

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<b>Hose and Fitting Selection</b> (page 6 of 7)								
<b>MEDIUM</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>STEEL</b>	<b>BRASS</b>	<b>SS</b>
Royco 756, 783	A	A	A	A	X	A	A	A
Royco 770	X	F	F	F	X	A	A	A
RTV Silicone Adhesive Sealants	X	X	X	X	X	A	A	A
Safco-Safe T10, T20	-	-	-	-	A	F	F	A
Safety-Kleen ISO 32, 46, 68 hydraulic oil	F	A	A	-	X	A	A	A
Safety-Kleen Solvent	8	8	8	8	X	A	A	A
Santoflex 13	F	F	F	-	F	A	A	A
Santosafe 300	X	X	X	-	X	A	A	A
Santosafe W/G 15 to 30	-	-	-	A	A	A	A	A
Sea Water	F	F	F	F	A	X	F	A
Sewage	F	F	F	A	F	X	F	A
Shell 140 Solvent	8	8	8	8	X	A	A	A
Shell Clavus HFC 68	X	X	X	X	X	A	A	A
Shell Comptella Oil	F	F	F	A	X	A	A	A
Shell Comptella Oil S 46, 68	F	F	F	A	X	A	A	A
Shell Comptella Oil SM	F	F	F	A	X	A	A	A
Shell Diala A, (R) Oil AX	F	A	A	F	X	A	A	A
Shell FRM	-	-	-	-	X	A	A	A
Shell IRUS 902, 905	A	A	A	-	A	A	A	A
Shell Pella-A	A	A	A	A	X	A	A	A
Shell Tellus	F	A	A	A	X	A	A	A
Shell Thermia Oil C	A	A	A	A	X	A	A	A
Shell Turbo R	X	F	F	A	X	A	A	A
SHF 220, 300, 450	X	X	A	X	X	A	A	A
Silicate Esters	A	F	F	A	X	A	A	A
Silicone Oils	A	A	A	-	-	A	A	A
Silicone Sealants	X	X	X	X	X	A	A	A
Skydrol 500B-4, LD-4	X	X	X	X	A, 7	A	A	A
Soap Solutions	X	F	F	F	A	A	A	A
Soda Ash, Sodium Carbonate	A	A	A	A	A	A	F	A
Sodium Bisulfate	F	F	F	A	A	F	A	F
Sodium Chloride	F	F	F	A	A	X	F	A
Sodium Hydroxide	X	X	X	A	A	A	X	A
Sodium Hypochlorite	F	F	F	X	F	X	X	X
Sodium Nitrate	F	F	F	A	A	A	F	A
Sodium Peroxide	X	X	X	X	A	X	X	A
Sodium Silicate	A	A	A	A	A	A	A	A
Sodium Sulfate	A	A	A	A	A	A	A	A
Soybean Oil	F	A	A	A	A	A	A	A
SSR Coolant	X	X	X	F	X	A	A	A
Steam	X	X	X	X	X	F	A	A
Stoddard Solvent	8	8	8	8	X	A	A	A
Sulfur Chloride	X	X	X	F	X	X	X	X
Sulfur Dioxide	X	X	X	X	F	X	F	F
Sulfur Trioxide	X	X	X	F	F	X	X	X
Sulfuric Acid	F	F	F	X	F, 6	6	X	6
Summa-20, Rotor, Recip	X	X	X	F	X	A	A	A
Summit DSL-32,68,100,125	X	X	X	F	X	A	A	A
Sun Minesafe, Sun Safe	X	F	F	F	X	A	A	A
Sundex 8125	X	F	F	-	A	A	A	A
Suniso 3GS	A	A	A	A	X	A	A	A
Sun-Vis 722	X	F	F	-	X	A	A	A
Super Hydraulic Oil 100, 150, 220	A	A	A	A	X	A	A	A
SUVA MP 39, 52, 66	X	X	X	X	X	A	A	A
SYNCON Oil	X	X	X	X	X	A	A	A
Syndale 2820	X	F	F	-	-	A	A	A

Hose	<b>A</b>
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<b>Hose and Fitting Selection</b> (page 7 of 7)								
<b>MEDIUM</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>STEEL</b>	<b>BRASS</b>	<b>SS</b>
Synesstic 32,68,100	X	X	X	X	X	A	A	A
Syn-Flo 70,90	X	X	X	F	X	A	A	A
SYN-O-AD 8478	X	X	X	X	A, 7	A	A	A
Tannic Acid	F	A	A	F	A	X	F	X
Tar	F	F	F	F	X	X	F	A
Tellus (Shell)	F	A	A	A	X	A	A	A
Texaco 760 Hydrafluid	-	-	-	-	X	A	A	A
Texaco 766, 763 (200 - 300)	-	-	-	-	A	F	F	A
Texaco A-Z Oil	A	A	A	F	X	A	A	A
Texaco Spindura Oil 22	F	F	F	F	X	A	A	A
Texaco Way Lubricant 68	A	A	A	A	X	A	A	A
Thanol-R-650-X	X	F	F	-	X	A	A	A
Thermanol 60	X	X	X	X	X	A	A	A
Toluene, Toluol	X	X	X	X	X	A	A	A
Transmission Oil	A	A	A	A	X	A	A	A
Tribol 1440	X	F	F	X	X	A	A	A
Trichloroethylene	X	X	X	F	X	X	A	A
Trim-Sol	F	A	A	F	X	A	A	A
Turbinol 50, 1122, 1223	X	X	X	X	A, 7	A	A	A
Turpentine	X	X	X	F	X	A	A	A
Ucon Hydrolubes	F	A	A	F	A	A	A	A
UltraChem 215,230,501,751	X	X	X	F	X	A	A	A
Univis J26	A	A	A	A	X	A	A	A
Unleaded Gasoline	See numeral 9					A	A	A
Unocal 66/3 Mineral Spirits	8	8	8	8	X	A	A	A
Urea	F	F	F	A	F	F	-	F
Urethane Formulations	A	A	A	A	-	A	A	A
Van Straaten 902	A	A	A	A	X	A	A	A
Varnish	X	X	X	F	X	F	F	A
Varsol	8	F	F	8	X	A	A	A
Versilube F44, F55	A	A	A	-	A	A	A	A
Vinegar	X	X	X	F	A	F	X	A
Vital 29, 4300, 5230, 5310	X	X	X	X	X	A	A	A
Volt Esso 35	A	A	A	A	X	A	A	A
Water	F	A	A	A	A	F	A	A
Water / Glycols	A	A	A	A	A	A	F	A
Xylene, Xylol	X	X	X	X	X	A	A	A
Zerol 150	A	A	A	A	X	A	A	A
Zinc Chloride	A	A	A	X	A	X	X	F
Zinc Sulfate	A	A	A	X	A	X	A	A

Hose  
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Hose	SAE J517	SAE Other	DOT FMVSS 106	USCG MTH (1)	ISO	DNV (2)	EN	MSHA (3)	German Lloyd	ABS	UL-21 LPG	Other
AX	100R1AT			H				X				
BXX	100R2AT			H				X				
CN	100R11			H				X				
SS25UL											x	CSA-CGA-8.1-M86
SS23CG												
201/261	100R5	J1402 All	A-II									
206	100R5	J1402 All	A-II			X						
213		J1402 AI	A-I									
221FR (4)		J1527 AI, J1942		HF	ISO 7840	X		X	X	X		NMMA/BIA/ABYC
225				F*,H*,HF*		X		X				
235		J51-D						X				
244		J2064 Type B										
266		J1402 All	A-II									
285		J2064 Type C										
293		J1402 AI	A-I									
301	100R2AT			HF		X		X		X		ABS Sizes 20, 24, 32
301LT	100R2AT			H		X		X				
304												
341	100R9AT			HF		X		X				
351ST								X				
351TC								X				
381	100R2AT			H	ISO 1436-2A	X	EN853-2SN	X	X			
421	100R1AT			F*,H*,HF*		X		X				
421WC												
424	100R1AT							X				
426	100R1AT							X				
431	100R16			H		X		X				
436	100R16			H		X		X				
451ST	100R17			H				X		X		
451TC	100R17			H								
471ST				H	ISO 11237-1		EN857-2SC	X		X		
471TC				H	ISO 11237-1		EN857-2SC	X				
472TC				H	ISO 11237-1		EN857-2SC	X				
482ST	100R1AT			H	ISO 1436-1SN		EN853-1SN	X				
482TC	100R1AT			H	ISO 1436-1SN	X	EN853-1SN	X	X			
601	100R3			H	ISO 4079-R3		EN854-R6	X				
604												
701				H	ISO 3862-1		EN856-4SP	X	X			
721	100R12				ISO 3862-1		EN856-R12	X				
721TC	100R12			H	ISO 3862-1	X	EN856-R12	X				
731				H	ISO 3862-1	X	EN856-4SH	X				
772ST	100R12			H	ISO 3862-1		EN856-R12	X				
772TC	100R12			H	ISO 3862-1	X	EN856-R12	X		X		
774												
78C	100R13			H	ISO 3862-1	X	EN856-R13	X		X		

Continued on next page

**Notes:**

(1) U.S.C.G./MTH (Marine Technical & Hazardous Materials Branch) hoses, hose assemblies and appropriate fittings meet 46CFR56.60-25(c) for use on commercial vessels. Hoses and hose assemblies meet the requirements of SAE J1942. Hose fittings meet the requirements of SAE J1475.

F = Fuel and lube systems.

H = Hydraulic Systems.

\*Some hoses are accepted for different pressures for F and H. Also, not all sizes are accepted for all applications. See HPD approval bulletin #APR-004 or consult the Parker Hose Products Division, Technical Services Department, for details. The Canadian Coast Guard accepts all hoses accepted by the U.S. Coast Guard.

(2) Det Norske Veritas (DnV) approvals are with permanent (crimp) type fittings only. See HPD Approval Bulletin #APR-006 or consult the Parker Hose Products Division, Technical Services Department, for details.

(3) Hose with MSHA (Mine Safety and Health Administration) approved flame resistant cover will be marked accordingly on the layline.

(4) 221FR is type accepted by Lloyd's Register. It meets the requirements of the American Boat and Yacht Council and is Type Accepted by the National Marine Manufacturers Association (BIA) as a J1527 Type A1 fuel hose. 221FR is certified to meet the EC Directive 94/25/EC in accordance with ISO 7840.

**Please contact the Hose Products Division, Technical Service Department, by website or phone if you have any questions. (www.parkerhose.com or (440) 943-5700)**





Continued from previous page

Hose	SAE J517	SAE Other	DOT FMVSS 106	USCG MTH (1)	ISO	DNV (2)	EN	MSHA (3)	German Lloyd	ABS	UL-21 LPG	Other
781	100R13				ISO 3862-1		EN856-R13	X				
782ST	100R13			H	ISO 3862-1		EN856-R13					
782TC	100R13			H	ISO 3862-1	X	EN856-R13	X		X		
791TC	100R15				ISO 3862-1			X				
792ST	100R15			H	ISO 3862-1							
792TC	100R15			H	ISO 3862-1			X		X		
801								X				
804												
811	100R4											
821												
821FR												
831								X				
836								X				
881	100R4			H				X				

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**JIS - Adapters and Fittings**

**JIS - ADAPTERS**

JIS B8363 Code	Parker Part Number	Mates With End Configuration
A1	F3T4	FU
A2	F3P4	GU
A3	F63P4	UT
E1	C3T4	FU
E2	C3P4	GU
E3	V3T4	FU
E4	V3P4	GU

Note: See website at www.Parker/tfd.com, Catalog 4300 or call (614) 279-7070 for additional information.

**JIS - HOSE FITTINGS**

JIS B8363 Code	Parker End Configuration Code	Fitting Series 43	Fitting Series 70	Fitting Series 71	Fitting Series 73	Fitting Series 78	Fitting Series 79
R	UT	X		X			
F	FU	X		X			
C	GU	X	X	X	X	X	
MF	MU	X		X			
S	15	X	X	X	X	X	
4S	17	X	X	X	X	X	
9S	19	X	X	X	X	X	
H	6A		X	X	X	X	X
4H	6F			X	X	X	X
9H	6N		X	X	X	X	X

Note: Parker Hose Standards are listed on page G-11-G-12.



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### WORKING PRESSURE CHART PARKER HOSE SIZE / RECOMMENDED MAXIMUM WORKING PRESSURES

In addition to pressure, other factors must also be considered in the selection of the proper hose, e.g. fluid compatibility, temperatures, environment, etc.

For additional information on a specific hose, consult the respective hose listing in this catalog.

Parker Hose Number	Page Number	Hose Dash Size (I.D.)												
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48
804	A-17, A-26		150		150	150		150						
801	A-24		250		250	250	250	250	175					
836	A-25		250		250	250	250							
821	A-24		350		300	300	250	250						
821FR	A-19, A-26		350		300	300		250						
831	A-25		350		300	300	300							
811 w/ HC Clamp	A-22							100	70	50	50	50	62	
811 w/ 81 Series	A-22							300	250	200	150	100	62	
811HT w/ HC Clamp	A-22							100	70	50	50	50	62	
811HT w/ 81 Series	A-22							300	250	200	150	100	62	
881 w/ HC Clamp	A-23							100	70	50	50	50	62	
881 w/ DB Clamp	A-23							300	250	200	150	100	62	
881 w/ 43 Series	A-23							300	250	200	150	100	62	
881 w/ 81 Series	A-23							300	250	200	150	100	62	
604	A-17				300	300			300					
SS25UL	A-31		350	350	350	350	350	350						
SS23CG	A-30				350	350	350	350						
235	A-32								350					
244	A-32								500	500	500			
285	A-32		500		500	500	500	500						
293	A-27		500		500	500	450	450	450					
221FR	A-30			500	500	500	500	500	500					
601	A-4		1250		1125	1000		750	565					
266	A-29		2000	1500	1500	1250	1250	750	400	300	250			
213	A-27		2000	1500	1500	1250	1000	750	400	300	300	200		
AX	A-4		3000		3000	2500	1500	1250	1000					
421	A-5	3000	2750	2500	2250	2000	1500	1250	1000	625	500	375		
421WC	A-20		2750		2250	2000		1250	1000					
426	A-20		2750		2250	2000	1500	1250	1000	625	500	375		
424	A-18							1000	625	500	375			
482TC/ST	A-5		3250	3250	3000	2500	2000	1750	1275					
201/261	A-28		3000	3000	2250	2000	1750	1500	800	625	500	350	350	200
206	A-28		3000	3000	2250	2000	1750	1500	800	625	500	350	350	
225	A-29		3000	3000	2250	2000	1750	1500	800	625	500	350		
351TC/ST	A-10		4000	4000	4000	4000	4000	4000						
451TC/ST	A-9		3000		3000	3000	3000	3000	3000	3000				
BXX	A-6		5000		4000	3500	2750	2250	2000					
304	A-18		5000		4000	3500		2250	2000	1625	1250	1125		
301	A-6		5000		4000	3500	2750	2250	2000	1625	1250	1125		
301LT	A-21		5000		4000	3500		2250	2000					
431	A-7		5000	4250	4000	3500	2750	2250	2000					
436	A-7				4000	3500	2750	2250	2000					
341	A-11				4500	4000		3000	3000	2500				
381	A-8		5800	5250	5000	4250	3625	3125	2500	2250	1800	1300		
JK	A-21		10500		10000									
471TC/ST	A-8		5800		5000	4250	3625	3125	2500					
472TC	A-9									2250	1800	1300		
701	A-16				6500	6000	5000	5000						
CN	A-13									4000	3000	3000		
721	A-11				4000	4000	4000	4000	4000	3000	2500	2500		

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**WORKING PRESSURE CHART CONT.**  
**PARKER HOSE SIZE / RECOMMENDED MAXIMUM WORKING PRESSURES**

In addition to pressure, other factors must also be considered in the selection of the proper hose, e.g. fluid compatibility, temperatures, environment, etc.

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Parker Hose Number	Page Number	Hose Dash Size (I.D.)													
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	
721TC	A-12				4000	4000	4000	4000	4000	4000	3000	2500	2500		
772TC/ST	A-12				4000	4000	4000	4000	4000	4000	3000	2500	2500		
774	A-19								4000	4000	3000	2500	2500		
781	A-13								5000	5000	5000				
78C	A-14												5000		
782TC	A-14							6500	5000	5000	5000	5000			
782ST	A-14								5000	5000	5000	5000			
731	A-16								6000	5500	4700	4200	3600		
791TC	A-15								6000	6000	6000	6000			
792TC/ST	A-15								6000	6000	6000				

**HOSE FLOW CAPACITIES PRESSURE DROP**

Hose Dash Size	-04		-05		-06		-08		-10		-12		-16		-20		-24		-32		-40		-48
Hose I.D. (Inches)	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.8	2.0	2.4	3.0	
0.3	10.0	3.1	3.1																				
0.5	19.0	6.0	6.0	2.7	2.7																		
1.0	40.0	12.0	12.0	5.5	5.5	2.4																	
2.0	95.0	24.0	24.0	10.0	10.0	4.8	3.5																
3.0	185.0	46.0	46.0	17.0	17.0	7.0	5.0	2.2	2.2														
4.0		78.0	78.0	29.0	29.0	12.0	8.0	3.0	3.0	1.2	1.2												
5.0		120.0	120.0	44.0	44.0	18.0	12.0	4.5	4.5	1.6	1.6	0.7											
8.0				95.0	95.0	39.0	26.0	10.0	10.0	3.6	3.6	1.4	0.6										
10.0						59.0	40.0	15.0	15.0	5.7	5.7	2.0	1.0	0.6									
12.0						80.0	52.0	20.0	20.0	7.2	7.2	2.6	1.5	0.8	0.4								
15.0							75.0	30.0	30.0	10.0	10.0	4.2	2.2	1.2	0.7	0.4							
18.0							107.0	40.0	40.0	15.0	15.0	6.3	3.0	1.5	0.7	0.6	0.4						
20.0								49.0	49.0	19.0	19.0	8.0	3.4	2.0	1.1	0.7	0.4	0.3					
25.0								72.0	72.0	26.0	26.0	11.0	5.5	3.0	1.6	1.0	0.6	0.4	0.2				
30.0										34.0	34.0	14.0	7.0	3.6	2.2	1.3	0.8	0.5	0.2	0.1			
35.0										47.0	47.0	19.0	9.5	5.0	2.8	1.7	1.1	0.7	0.3	0.2			
40.0												25.0	12.0	6.5	3.4	2.2	1.4	0.9	0.4	0.2			
50.0												36.0	17.0	9.0	5.3	3.3	2.0	1.3	0.5	0.4	0.2		
60.0												50.0	23.0	12.0	7.5	4.4	2.8	1.8	0.8	0.5	0.2		
70.0													31.0	17.0	9.3	6.0	3.8	2.4	1.0	0.7	0.3		
80.0													38.0	21.0	12.0	7.1	4.6	3.0	1.2	0.8	0.3	0.1	
90.0													49.0	27.0	15.0	9.0	5.9	3.8	1.5	1.0	0.5	0.1	
100.0														33.0	19.0	12.0	7.0	4.7	1.9	1.3	0.6	0.2	
150.0															60.0	36.0	22.0	13.0	8.5	3.4	2.2	1.0	0.3
200.0																	36.0	23.0	15.0	6.0	3.9	1.7	0.6
250.0																	54.0	33.0	22.0	8.5	5.3	2.5	0.8
300.0																		45.0	29.0	12.0	7.5	4.0	1.1
400.0																			51.0	21.0	14.0	6.5	2.2
500.0																				32.0	20.0	10.0	3.0
800.0																					18.0	5.0	
1000.0																							10.0

U.S. Gallons per minute

Pressure drop in psi (pounds per square inch) per 10 feet of hose (smooth bore) without fittings.

Fluid specification: Specific gravity = 0.85; Viscosity =  $\nu = 20$  centistokes (C.S.), (20 C.S. = 97 S.S.U.)

Pressure drop values listed are typical of many petroleum based hydraulic oils at approximately +100°F (+38°C). Differences in fluids, fluid temperature and viscosity can increase or decrease actual pressure drop compared to the values listed.



Hose  
A

Fittings  
B

Parkrimp  
Crimping  
Equipment  
C

Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

Appendices  
G

**PRESSURE RATINGS HOSE ASSEMBLIES - PSI**

**THE MAXIMUM DYNAMIC WORKING PRESSURE OF THE HOSE ASSEMBLY IS THE LESSER OF THE RATED WORKING PRESSURE OF THE HOSE AND THE END CONNECTIONS USED.**

**PRESSURE RATING OF HOSE END CONNECTIONS - PSI**

Hose End Connection Description	Part Number Codes	Inch Size Fittings												
		-2	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32		
		(psi)												
Male Pipe (NPTF)	01	12,000	12,000		10,000	10,000		7,500	6,500	5,000	3,000	2,500		
Female Pipe (NPTF, NPSM)	02 & 07	7,500	7,000		6,000	5,000		4,000	3,000	2,500	2,000	2,000		
Male Pipe (BSP)	91 & D9	5,000	9,000		8,000	6,250		5,000	4,000	3,500	3,000	3,000		
Female Pipe (BSP)	92, B1, B2 & B4	5,000	9,000		8,000	6,250	5,500	5,000	4,000	3,500	3,000	3,000		
Pipe (JIS)	FU, GU, MU & UT		5,000		5,000	5,000		4,000	3,000	2,500	1,500	1,500		
Hydra-Clip	S0		5,000		5,000	4,000		3,000	2,500					
O-Ring Swivel and 45° Flare*	13, 1L, S2, 0G, 0L, 48, 08, 77 & 79		3,000	3,000	3,000	3,000	2,750	2,250	2,000	1,625	1,250	1,125		
Straight 37° and Straight Thread*	03, 05, 06**, 37, 39**, 41, L7 & L9		6,000	6,000	5,000	5,000	5,000	5,000	4,000	3,000	2,500	2,500		
SAE Flareless	11 & 12		6,000	6,000	5,600	5,600	4,200	4,200	3,500	3,500	3,000	3,000		
SAE Inverted Flare	28, 67 & 69		2,750	2,500	2,250	2,000								
Seal-Lok®	JM, JC, JS, J0, J1, J5, J7 & J9		6,000		6,000	6,000	6,000	6,000	6,000	4,000	4,000			
SAE Flanges Code 61	15, 16, 17, 18, 19, 26, 27 & 89						5,000		5,000	5,000	4,000	4,000	3,000	
SAE Flanges Code 61 Special	4A, 4F & 4N										5,000	5,000	5,000	
SAE Flanges Code 62	6A, 6E, 6F, 6G, 6N, XA, XF, XG & XN									6,000	6,000	6,000	6,000	6,000

\*NOTE: 45°, 37° and Seal-Lok Torque Tables are on page G-20.

\*\*NOTE: For pressure rating of 06 and 39 end configurations in 73, 78, and 79 series, see each description in Section B.

Hose End Connection Description	Part Number Codes	Inch Size Fittings															
		-6	-8	-10	-12	-14	-15	-16	-18	-20	-22	-25	-28	-30	-35	-38	-42
		(psi)															
DIN Light "L" without O-Ring	C3, C4, C5 & 1D	3,500	3,500	3,500	3,500		3,500		2,250		2,250		1,400		1,400		1,400
DIN Light "L" with O-Ring	D0, CA, CE & CF	4,500	4,500	4,500	4,500		4,500		2,250		2,250		2,250		2,250		2,250
DIN Heavy "S" without O-Ring	C6, C7, C8 & 3D		9,000	9,000	9,000	9,000		5,750		5,750		5,750		3,500		3,500	
DIN Heavy "S" with O-Ring	C9, 0C, 1C & D2		9,000	9,000	9,000	9,000		6,000		6,000		6,000		6,000		4,500	
DIN 20078 Form C	C0										900		900		900		900
Banjo	49	3,000	3,000	3,000	3,000		3,000			3,000	3,000	3,000					
French Metric	F9 & FA			3,000	3,500	2,000			2,250	2,000	1,900				1,750		

Hose End Connection Description	Part Number Codes	French Gaz Fittings				
		-13	-17	-21	-27	-33
		(psi)				
French Gaz	F4, FG, GJ & GE	5,250	3,900	3,700	3,000	2,500

**NOTE: ALL THE ABOVE RATINGS ARE BASED ON LOW CARBON STEEL HOSE FITTINGS. HIGHER PRESSURE RATINGS CAN BE ATTAINED WITH MEDIUM CARBON AND ALLOY STEEL HOSE FITTINGS AND MATING ADAPTERS.**

**PRESSURE RATING OF HOSE - PSI**

**THE MAXIMUM WORKING PRESSURES OF HOSE ARE LISTED ON PAGE G-13 - G-14 AND WITH EACH HOSE DESCRIPTION IN SECTION A.**



Hose  
A  
Fittings  
B  
Parkrimp Crimping Equipment  
C  
Hose Assembly Equipment  
D  
Adapters  
E  
Accessories  
F  
Appendices  
G

## Flow Capacities of Parker Hose at Recommended Flow Velocities

The nomogram below is provided as an aid in determining the correct hose size.

**Problem:**

At 16 gallons per minute (gpm), what is the proper hose size for pressure lines?

**Solution:**

Locate 16 gallons per minute in the left-hand column and 20 feet per second in the right-hand column (the maximum recommended velocity range for pressure lines). Lay a straight edge across these two points. The inside diameter required is shown in the center column at or above the straight edge. In this case, we need a hose I.D. of 0.625 (5/8") inch or larger.

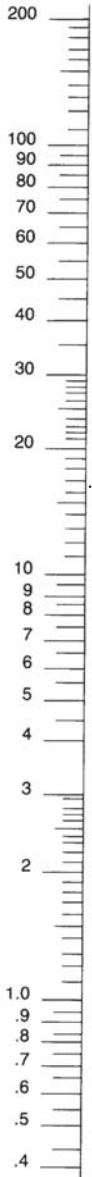
Use the same procedure for suction or return lines, except utilizing their respective maximum recommended velocities.

The nomogram is based on the following formula:

$$D = \sqrt{\frac{Q \times 0.4081}{V}}$$

Where: Q = Flow in Gallons per Minute (gpm)  
V = Velocity in Feet per Second (ft/sec)  
D = Hose Inside Diameter (inches)

Flow  
Gallons per Minute

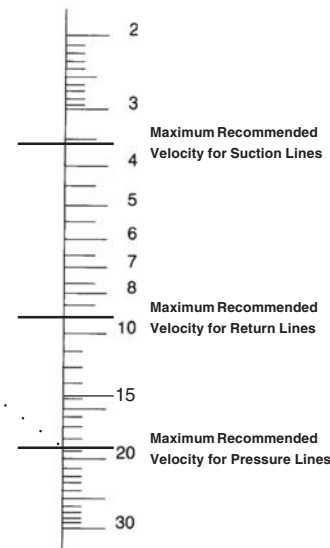


Inside Diameter of Hose  
Inch / Dash Size

20, 21, 22, 23, All Others  
Group XV, 90, 91

2-3/8"	40	32	2"
1-13/16"	32	24	1-1/2"
1-3/8"	24	20	1-1/4"
1-1/8"	20	16	1"
7/8"	16	12	3/4"
5/8"	12	10	5/8"
1/2"	10	8	1/2"
13/32"	8	6	3/8"
5/16"	6	5	5/16"
1/4"	5	4	1/4"
3/16"	4	3	3/16"

Velocity  
Feet per Second



Hose  
A

Fittings  
B

Parkrimp  
Crimping  
Equipment  
C

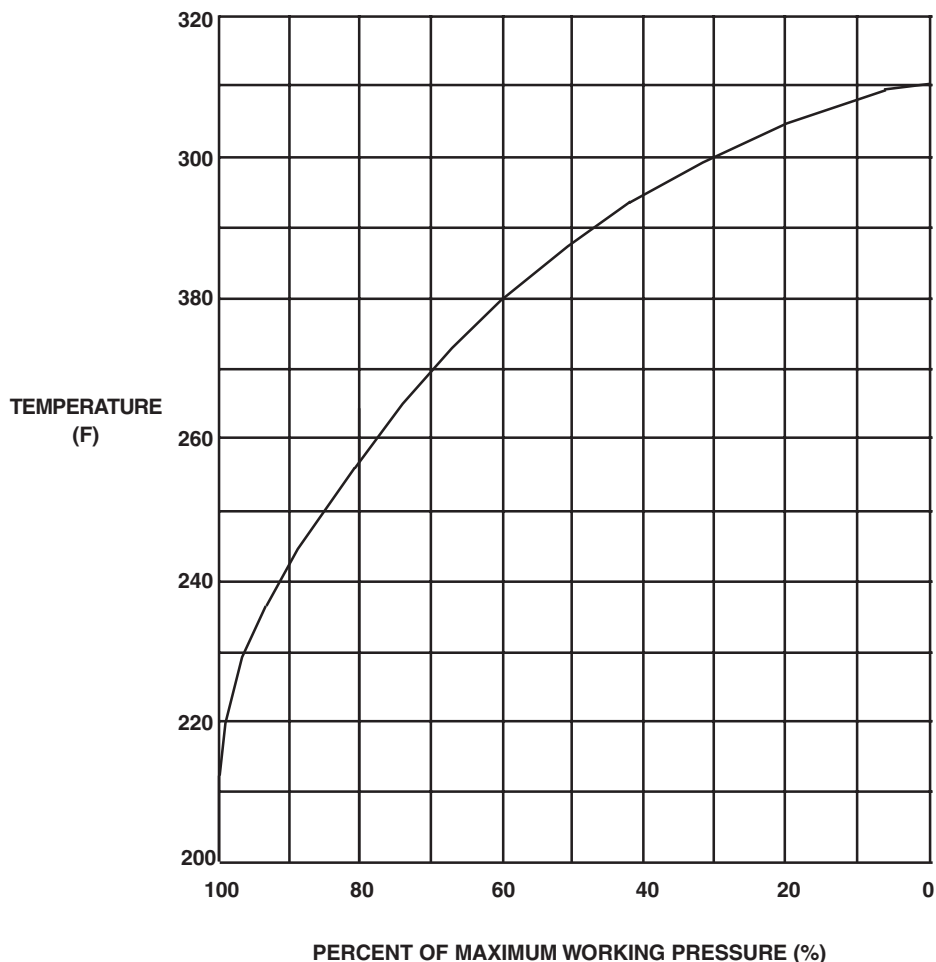
Hose  
Assembly  
Equipment  
D

Adapters  
E

Accessories  
F

Appendices  
G

**Temperature / Pressure Chart**  
Reference 201/261, 206, 213, and 266 hose.



**EXAMPLE: 201-8 hose to be used a 250°F (121°C)**

Maximum Working Pressure up to 212°F (100°)	X	Multiplier from Chart	=	Maximum Working Pressure at 250°F (121°C)
2,000 psi	X	85%	=	1,700 psi

Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

Adapters  
**E**

Accessories  
**F**

Appendices  
**G**

### Minimum/Maximum Temperature Chart for Parker Hose

Hose	Petroleum base hydraulic fluids and lubricating oils within a temperature range of:	Antifreeze solutions within a temperature range of:	Diesel fuels within a temperature range of:	SAE J1942 Marine lube oil and diesel fuel systems (Application Code F) within a temperature range of:**
201/261*	-40°C to +150°C (-40°F to +302°F)	-40°C to +150°C (-40°F to +302°F)	-40°C to +150°C (-40°F to +302°F)	x
206*	-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	x
213*	-45°C to +150°C (-50°F to +302°F)	-45°C to +150°C (-50°F to +302°F)	-45°C to +150°C (-50°F to +302°F)	x
221FR	-20°C to +100°C (-4°F to +212°F)	x	-20°C to +100°C (-4°F to +212°F)	-20°C to +100°C (-4°F to +212°F)
225	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)
235	-40°C to +125°C (-40°F to +257°F)	x	x	x
266*	-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	x
293*	-50°C to +150°C (-58°F to +302°F)	-50°C to +150°C (-58°F to +302°F)	-50°C to +150°C (-58°F to +302°F)	x
301	-40°C to +125°C (-40°F to +257°F)	x	x	-40°C to +125°C (-40°F to +257°F)
301LT	-55°C to +100°C (-67°F to +212°F)	x	x	x
304	x	x	x	x
341	-40°C to +100°C (-40°F to +212°F)	x	x	-40°C to +100°C (-40°F to +212°F)
351TC/ST	-40°C to +100°C (-40°F to +212°F)	x	x	x
381	-40°C to +100°C (-40°F to +212°F)	x	x	x
421	-40°C to +125°C (-40°F to +257°F)	x	x	-40°C to +125°C (-40°F to +257°F)
421WC	-40°C to +125°C (-40°F to +257°F)	x	x	x
424	x	x	x	x
426	-46°C to +150°C (-50°F to +302°F)	x	x	x
431	-40°C to +125°C (-40°F to +257°F)	x	x	x
436	-48°C to +150°C (-55°F to +302°F)	x	x	x
451TC/ST	-40°C to +100°C (-40°F to +212°F)	x	x	x
471TC/ST	-40°C to +100°C (-40°F to +212°F)	x	x	x
472TC	-40°C to +100°C (-40°F to +212°F)	x	x	x
482TC/ST	-40°C to +100°C (-40°F to +212°F)	x	x	x
601	-40°C to +125°C (-40°F to +257°F)	x	x	x
604	x	x	x	x
701	-40°C to +100°C (-40°F to +212°F)	x	x	x
721	-40°C to +125°C (-40°F to +257°F)	x	x	x
721TC	-40°C to +125°C (-40°F to +257°F)	x	x	x
731	-40°C to +100°C (-40°F to +212°F)	x	x	x
772TC/ST	-40°C to +125°C (-40°F to +257°F)	x	x	x
774	x	x	x	x
781	-40°C to +125°C (-40°F to +257°F)	x	x	x
782TC/ST	-40°C to +125°C (-40°F to +257°F)	x	x	x
78C	-40°C to +125°C (-40°F to +257°F)	x	x	x
791TC	-40°C to +125°C (-40°F to +257°F)	x	x	x
792TC/ST	-40°C to +125°C (-40°F to +257°F)	x	x	x
801	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
804	x	x	x	x
811	-40°C to +100°C (-40°F to +212°F)	x	x	x
821	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
821FR	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
831	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
836	-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	x	x
881	-40°C to +125°C (-40°F to +257°F)	x	x	x
AX	-40°C to +100°C (-40°F to +212°F)	x	x	x
BXX	-40°C to +100°C (-40°F to +212°F)	x	x	x
CN	-40°C to +125°C (-40°F to +257°F)	x	x	x

Continued on next page

\* The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on G-17 for the reduced maximum working pressure.

\*\* Maximum service pressure for lube oil and fuel systems applications (Code F) may be less than maximum service pressure for other systems applications, e.g., Code H. Refer to individual hose listings in Section A and Hose Assemblies List, SAE J1942/1 or HPD Approval Bulletin #APR-004.



## Minimum/Maximum Temperature Chart for Parker Hose

Continued from previous page

Hose	Air up to:	Water, water/oil emulsion hydraulic fluids up to:	Water/glycol hydraulic fluids up to:	Water up to:	Phosphate ester base hydraulic fluids within a temperature range of:	Polyol ester fluids up to:
201/261*	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
206*	+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
213*	+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
221FR	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
225	+65°C (+150°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
235	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	-40°C to +93°C (-40°F to +200°F)	x
266*	+93°C (+200°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
293*	+93°C (+200°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
301	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
301LT	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
304	+70°C (+158°F)	x	+85°C (+185°F)	+85°C (+185°F)	-40°C to +80°C (-40°F to +176°F)	x
341	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
351TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
381	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
421	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
421WC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
424	+70°C (+158°F)	x	+85°C (+185°F)	+85°C (+185°F)	-40°C to +80°C (-40°F to +176°F)	x
426	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
431	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
436	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
451TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
471TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
472TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
482TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
601	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
604	x	x	x	+93°C (+200°F)	x	x
701	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
721	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
721TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
731	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
772TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
774	+70°C (+158°F)	x	+85°C (+185°F)	+85°C (+185°F)	-40°C to +80°C (-40°F to +176°F)	x
781	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
782TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
78C	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
791TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
792TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
801	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
804	+70°C (+158°F)	x	+93°C (+200°F)	+93°C (+200°F)	+80°C (+176°F)	x
811	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
821	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
821FR	+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
831	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+50°C (+122°F)
836	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
881	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
AX	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
BXX	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
CN	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x

\* The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on G-17 for the reduced maximum working pressure.



**JIC 37° and SAE 45° Flare Torque Values**

Dash Size	SWIVEL NUT TORQUE - JIC 37 FLARE AND 45 FLARE		Flats from Finger Tight
	Newton Meters	Pound Inches	
-4	15-17	130-150	2
-5	19-22	165-195	2
-6	27-30	235-265	1-1/4
-8	59-65	525-575	1
-10	68-79	600-700	1
-12	107-119	950-1050	1
-16	158-170	1400-1500	1
-20	215-237	1900-2100	1
-24	254-288	2250-2550	1
-32	339-384	3000-3400	1

Note: The hex flats from finger tight method is recommended for 37° and 45° flare fittings. The torque values given are for zinc yellow plated carbon steel components without lubrication.

**Seal-Lok® Torque Values**

Dash Size	SWIVEL NUT TORQUE - SEAL-LOK	
	Newton Meters	Pound Inches
-4	24-26	210-230
-6	33-39	295-345
-8	51-57	455-505
-10	81-89	715-785
-12	117-127	1035-1125
-16	153-173	1350-1530
-20	180-200	1590-1770
-24	212-235	1880-2080
-32	-	-

Note: The assembly torques listed are higher than the test torques published in SAE J1453.

**Torque Conversion Equivalents**

Torque Conversion Equivalents	
Pound Inch - Pound Foot - Newton Meter	
Pound Foot x 12	= Pound Inch
Pound Foot x 1.356	= Newton Meter
Newton Meter x 8.850	= Pound Inch
Newton Meter x 0.737	= Pound Foot
Pound Inch x .083	= Pound Foot
Pound Inch x 0.113	= Newton Meter

Recommended Torque Values for JIC/SAE fitting connections

The recommended torque values for JIC/SAE connections with zinc plated steel fittings and adapters are in the above listing.


The torque values for other materials are as follows:

- Brass fittings and adapters - 65% of the torque value for steel.
- Stainless steel, and monel - use high side of the torque range for steel. Threads to be lubricated for these materials.
- Dissimilar metals - use torque value designated for the lower of the two metals.
- All fittings are dry except as noted above.

The torque values listed above are consistent with the torque values recommended by Parker Tube Fittings Division Technical Service Department ((614) 279-7070 or [www.parker.com/tfd](http://www.parker.com/tfd)).



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METRIC I.D. KIT
<b>INTERNATIONAL HOSE FITTING IDENTIFICATION KIT</b>
<p><b>P.N. MIK-1</b> The booklet, gauges and caliper contained in this fitting I.D. Kit, can be used to identify most types of hydraulic hose fittings and adapters including:</p> <ul style="list-style-type: none"> <li>U.S. Standards</li> <li>British Standard Pipe</li> <li>German (DIN) Metric</li> <li>French Metric and GAZ</li> <li>Japanese Standards (JIS)</li> </ul> <p>Contents of Kit (Bulletin #MIK-1):</p> <ul style="list-style-type: none"> <li>Instruction Book with Tables</li> <li>Screw Pitch Gauge for U.S. Threads</li> <li>International Gauge for Metric and British Threads</li> <li>Inch and Millimeter Caliper</li> <li>Carry Case</li> </ul> <p>For information, contact your local distributor or the Parker Catalog Service Department - 1-800-272-7537 or 1-440-205-7799.</p>


METRIC to ENGLISH EQUIVALENTS
<b>ENGLISH to METRIC EQUIVALENTS</b>
<p>inches x 25.4 = millimeters (mm)  inches x 2.54 = centimeters (cm)  feet x .3048 = meters (m)  yard x .9144 = meters (m)  psi x .0689 = bar  psi x .0069 = Megapascals (MPa)  psi x .0703 = Kilogram force per square centimeter (Kgf/cm<sup>2</sup>)  pound force x 4.448 = Newtons  pound · inch x .113 = Newton · meters (N · m)  pound · foot x 1.356 = Newton · meters (N · m)  millimeter x .0394 = inch (in)  centimeter x .3937 = inch (in)  meters x 3.281 = feet (ft)  meters x 1.0936 = yards (yd)  bar x 14.5 = psi  Megapascals x 145.0 = psi  Kilogram force per square centimeter x 14.22 = psi  Newtons x .2248 = pounds force (lbf)  Newton · meter x 8.850 = pound · inches (lb · in)  Newton · meter x .737 = pound feet (lb · ft)</p>

MILLIMETERS to FRACTIONS to DECIMALS											
MM	INCHES		MM	INCHES		MM	INCHES		MM	INCHES	
	FRACTION	DECIMAL		FRACTION	DECIMAL		FRACTION	DECIMAL		FRACTION	DECIMAL
0.3969	1/64	0.0156	6.7469	17/64	0.2656	13.0969	33/64	0.5156	19.4469	49/64	0.7656
0.7938	1/32	0.0312	7.1438	9/32	0.2812	13.4938	17/32	0.5312	19.8438	25/32	0.7812
1.1906	3/64	0.0468	7.5406	19/64	0.2968	13.8906	35/64	0.5468	20.2406	51/64	0.7968
1.5875	1/16	0.0625	7.9375	5/16	0.3125	14.2875	9/16	0.5625	20.2375	13/16	0.8125
1.9844	5/64	0.0781	8.3344	21/64	0.3281	14.6844	37/64	0.5781	21.0344	53/64	0.8281
2.3812	3/32	0.0937	8.7312	11/32	0.3437	15.0812	19/32	0.5937	21.4312	27/32	0.8437
2.7781	7/64	0.1093	9.1281	23/64	0.3593	15.4781	39/64	0.6093	21.8281	55/64	0.8593
3.1750	1/8	0.1250	9.5250	3/8	0.3750	15.8750	5/8	0.6250	22.2250	7/8	0.8750
3.5719	9/64	0.1406	9.9219	25/64	0.3906	16.2719	41/64	0.6406	22.6219	57/64	0.8906
3.9688	5/32	0.1562	10.3188	13/32	0.4062	16.6688	21/32	0.6562	23.0188	29/32	0.9062
4.3656	11/64	0.1718	10.7156	27/64	0.4218	17.0656	43/64	0.6718	23.4156	59/64	0.9218
4.7625	3/16	0.1875	11.1125	7/16	0.4375	17.4625	11/16	0.6875	23.8125	15/16	0.9375
5.1594	13/64	0.2031	11.5094	29/64	0.4531	17.8594	45/64	0.7031	24.2094	61/64	0.9531
5.5562	7/32	0.2187	11.9062	15/32	0.4687	18.2562	23/32	0.7187	24.6062	31/32	0.9687
5.9531	15/64	0.2343	12.3031	31/64	0.4843	18.6531	47/64	0.7343	25.0031	63/64	0.9843
6.3500	1/4	0.2500	12.7000	1/2	0.5000	19.0500	3/4	0.7500	25.4000	1	1.0000

Hose	<b>A</b>
Fittings	<b>B</b>
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**Metric Pressure Conversions**

PRESSURE CONVERSIONS									
Kilo-Pascals (kPa)	Mega-Pascals (MPa)	Bar (bar)	Kilograms per Square Centimeter (Kgf/cm <sup>2</sup> )	lbs per Square Inch (psi)	lbs per Square Inch (psi)	Kilo-Pascals (kPa)	Mega-Pascals (MPa)	Bar (bar)	Kilograms per Square Centimeter (Kgf/cm <sup>2</sup> )
100	0.1	1.00	1.0	14.50	10	68.9	0.07	0.7	0.70
200	0.2	2.00	2.0	29.00	20	137.9	0.14	1.4	1.41
300	0.3	3.00	3.1	43.50	30	206.8	0.21	2.1	2.11
400	0.4	4.00	4.1	58.00	40	275.8	0.28	2.8	2.81
500	0.5	5.00	5.1	72.50	50	344.7	0.34	3.4	3.52
600	0.6	6.00	6.1	87.00	60	413.7	0.41	4.1	4.22
700	0.7	7.00	7.1	101.50	70	482.6	0.48	4.8	4.92
800	0.8	8.00	8.2	116.00	80	551.6	0.55	5.5	5.63
900	0.9	9.00	9.2	130.50	90	620.5	0.62	6.2	6.33
1000	1.0	10.00	10.2	145.00	100	689.0	0.70	6.9	7.00
2000	2.0	20.00	20.4	290.10	200	1379.0	1.40	13.8	14.10
3000	3.0	30.00	30.6	435.10	300	2068.0	2.10	20.7	21.10
4000	4.0	40.00	40.8	580.20	400	2758.0	2.80	27.6	28.10
5000	5.0	50.00	51.0	725.20	500	3447.0	3.40	34.5	35.20
6000	6.0	60.00	61.2	870.20	600	4137.0	4.10	41.4	42.20
7000	7.0	70.00	71.4	1015.30	700	4826.0	4.80	48.3	49.20
8000	8.0	80.00	81.6	1160.30	800	5516.0	5.50	55.2	56.30
9000	9.0	90.00	91.8	1305.30	900	6205.0	6.20	62.1	63.30
10000	10.0	100.00	102.0	1450.00	1000	6895.0	6.90	68.9	70.30
20000	20.0	200.00	204.0	2901.00	2000	13790.0	13.80	137.9	140.70
30000	30.0	300.00	306.0	4351.00	3000	20684.0	20.70	206.8	211.00
40000	40.0	400.00	408.0	5802.00	4000	27579.0	27.60	275.8	281.30
50000	50.0	500.00	510.0	7252.00	5000	34474.0	34.50	344.7	351.60
60000	60.0	600.00	612.0	8702.00	6000	41369.0	41.40	413.7	421.90
70000	70.0	700.00	714.0	10153.00	7000	48263.0	48.30	482.6	492.30
80000	80.0	800.00	816.0	11603.00	8000	55158.0	55.20	551.6	562.60
90000	90.0	900.00	918.0	13053.00	9000	62053.0	62.10	620.5	632.90
100000	100.0	1000.00	1020.0	14504.00	10000	68948.0	68.90	689.0	703.00
200000	100.0	2000.00	2040.0	29008.00	20000	137895.0	137.90	1379.0	1406.00
300000	300.0	3000.00	3060.0	43511.00	30000	206843.0	206.80	2068.0	2110.00
					40000	275790.0	275.80	2758.0	2813.00

Hose  
**A**

Fittings  
**B**

Parkrimp Crimping Equipment  
**C**

Hose Assembly Equipment  
**D**

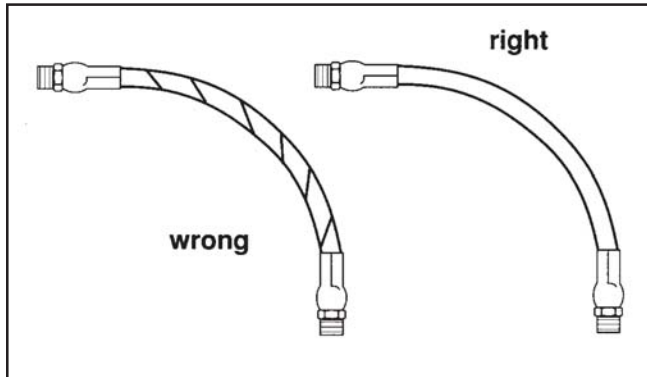
Adapters  
**E**

Accessories  
**F**

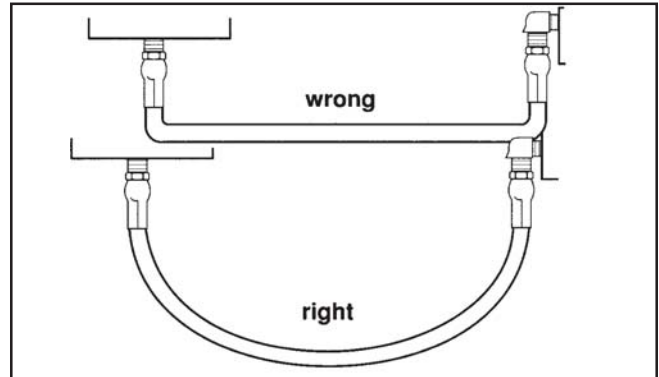
Appendices  
**G**



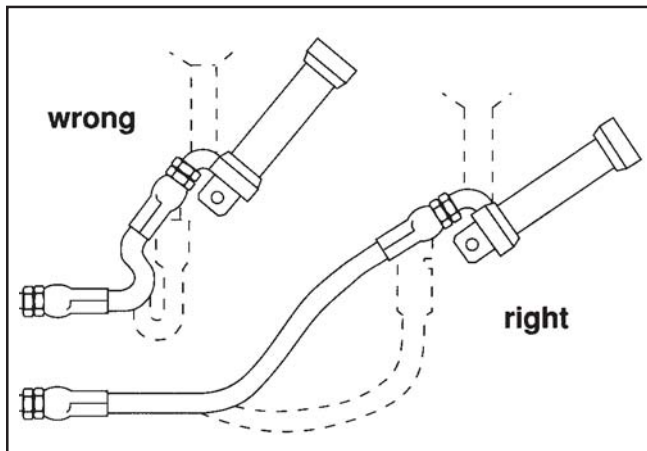
## Hose Installation Tips



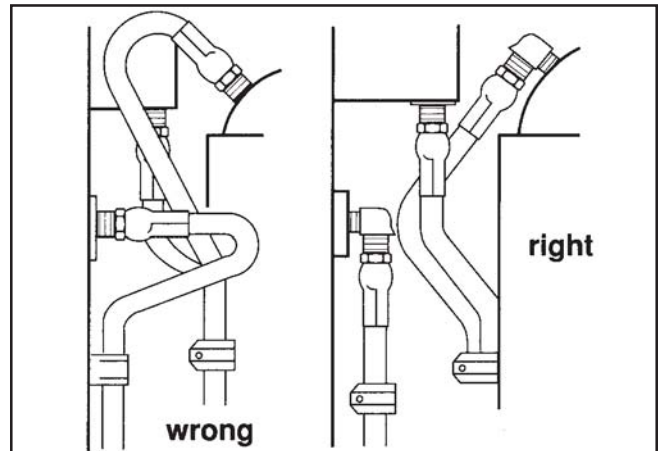
1. Hose is weakened when installed in twisted position. Pressure in twisted hose tends to loosen fitting connections. Design so that machine motion produces bending rather than twisting.



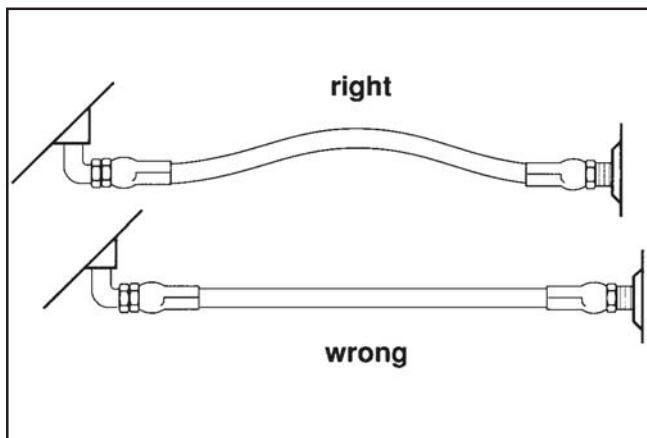
2. Ample bend radius should be provided to avoid collapsing of line and restriction of flow.



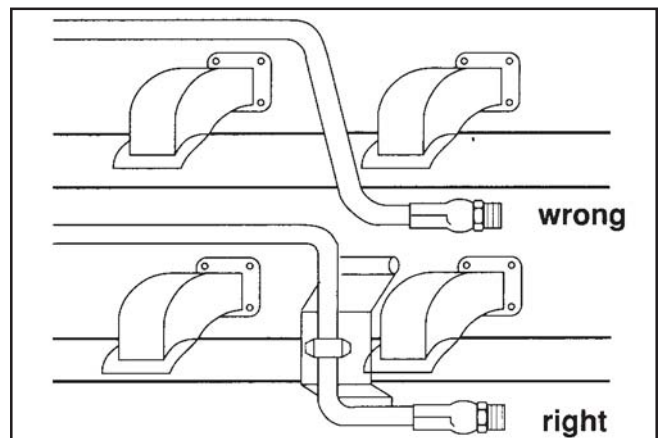
3. Exceeding minimum bend radius will greatly reduce hose assembly life.



4. Use elbows or other adapters as necessary to eliminate excess hose length and to insure neater installation for easier maintenance.

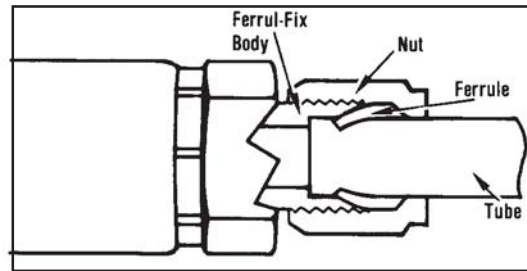


5. When hose assembly is installed in a flexing application, remember that metal hose fittings are not part of the flexible portion. Allow ample free length for flexing.



6. When properly routing, use clamps to secure the hose in its proper position.

## Ferrul-Fix



### Fast, on-the-job repair for ruptured bent tube hose assemblies and power steering lines.

The life of the combination tube-hose assembly is often limited to the service life of the hose alone. A replacement assembly may not be available, some equipment dealers are unable to stock all of the many odd tube configurations.

Parker FERRUL-FIX, a field attachable, reusable hose end fitting, now makes it possible to salvage the bent tube section of the original assembly for replacement. Most important, it gets you back into operation FAST!

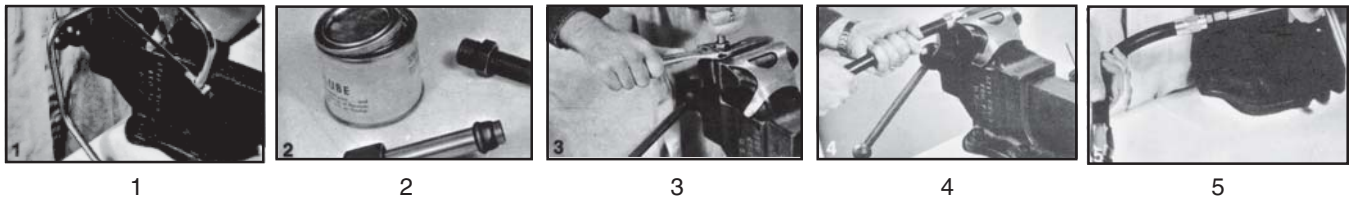
- Gets you back in operation fast - No costly delays while replacement assemblies are rushed from the factory.
- Lets you reuse expensive bent tube ends with Parker Hose fittings - You can replace the hose at a fraction of the cost of complete assembly.
- Eliminates the need for emergency brazing or welding in the field - Ferrul-Fix can be assembled without special tools or equipment when using Parker Reusable Hose fittings.

**3-Piece Design** - Body, nut and ferrule. Wedging action of ferrule, when drawn down by nut, forms seal between body and ferrule, while cutting edge of ferrule "bites" into tube wall forming another positive seal.

**Visible Bite** - Extent of bite at cutting edge of ferrule is completely visible when fitting is dis-assembled, an important safety feature. Self-centering action assures even bite around circumference of tube.

**Parkerized Finish** - Ferrul-Lok fittings have the Parkerized black finish, providing "built-in" lubrication which reduces wrench torque required.

## Ferrul-Fix Installation Instructions



1. Cut the formed tube off squarely next to the permanent hose fitting. Lightly deburr the end of the tube internally and externally.
2. Disassemble the Ferrul-Fix fitting, and lubricate threads and both ends of the ferrule with Parker Ferulube.
3. Slide nut and ferrule onto tubing, with the long, straight end of the ferrule pointing toward the tube end.
4. Insert tube end into the Ferrul-Fix body until it bottoms against the shoulder. Slide ferrule inside body, and screw nut down finger tight.
5. Wrench nut down 1-3/4 turns to preset the ferrule.
6. Disconnect nut and inspect lead edge of ferrule to make certain that the biting edge has turned up a shoulder to a height of at least 50% of the ferrule and completely around the tube.
7. Assemble Ferrul-Fix fitting to hose. Refer to assembly instructions listed in appropriate fittings section. Do not assemble to hose before steps 1-6.
8. Reassemble tubing into Ferrul-Fix end and turn nut down easily until a sudden increase in force is evident. Turn bent tube to proper position if required. Using two wrenches, one on the fitting nipple hex and the other on the nut tighten nut an additional 1/6 turn (one wrench flat).

**Note:** To order Ferrul-Fix fitting only (without nut and ferrule), use 21N20-10-10. Nut only 111-10, Ferrule only 110-10 (-10 is for 5/8" O.D. tube).

## Standard Fitting Configurations by End Code and Series (page 1 of 8)

- (1.) Fittings are ordered by part numbers listed in this catalog.
- (2.) The standard fittings are identified with a bullet in the charts on the following pages. This includes an End Configuration Description, 2-Digit Fitting Code, and Fitting Series.  
*Example: Description — Male NPTF Pipe - Straight  
End Code — 13  
Standard Fitting Series — 30, 42, 43, and 82.*
- (3.) Assemble a part number by selecting the:  
a.) Code for Fitting Type — 1=crimp, 2=field attachable or 3=Push-Lok,
- b.) 2-Digit Fitting Code
- c.) Fitting Series — 20, 21, 22, 23, 26, 30, 42, 43, 70, 71, 73, 78, 79, 81, 82, 88, HY and TB Series.  
*Example: Part number 11343 (1 13 43) is the base part number for a Crimp (1) / Male NPTF Pipe - Straight (13) / Fitting Series (43).*
- (4.) See the catalog index or the corresponding fitting series visual table of contents for part number page location.  
*Example: Part number 11343 is on page B-25.*

Description	End Code	Standard Fittings Series							
		26	43	70	71	73	78	79	HY
Male NPTF Pipe - Rigid - Straight	01	.	.	.	.	.	.	.	.
Male NPTF Pipe - Swivel - Straight	13	.	.	.	.	.	.	.	.
Male NPTF Pipe - Swivel - 90° Elbow	1L	.	.	.	.	.	.	.	.
Male API Pipe - Rigid - Straight	AP	.	.	.	.	.	.	.	.
Female NPTF Pipe - Rigid - Straight	02	.	.	.	.	.	.	.	.
Female NPSM Pipe - Swivel - Straight (60° Cone)	07	.	.	.	.	.	.	.	.
Female NPTF Pipe - Swivel - Straight	S2	.	.	.	.	.	.	.	.
Female NPSM Pipe - Gasket Joint - Swivel - Straight	7G	.	.	.	.	.	.	.	.
Female Grease Connection - SPL-PTF Taper Thread - Rigid - Straight - ½ x 27	GJ	.	.	.	.	.	.	.	.
Male NPTF Pipe - Rigid - 45° Elbow	31	.	.	.	.	.	.	.	.
Male NPTF Pipe - Rigid - 90° Elbow or Side Outlet	21	.	.	.	.	.	.	.	.
Male SAE Straight Thread with O-Ring - Rigid - Straight	05	.	.	.	.	.	.	.	.
Male SAE Straight Thread with O-Ring - Swivel - Straight	0G	.	.	.	.	.	.	.	.
Male SAE Straight Thread with O-Ring - Adjustable - 45° Elbow	25	.	.	.	.	.	.	.	.
Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow	0L	.	.	.	.	.	.	.	.
Male SAE Straight Thread with O-Ring - Adjustable - 90° Elbow	35	.	.	.	.	.	.	.	.
Male JIC 37° - Rigid - Straight	03	.	.	.	.	.	.	.	.
Male JIC 37° - Bulkhead without Locknut - Straight	LB	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - Straight	06	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 45° Elbow - Short Drop	37	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 45° Elbow - Medium Drop	L7	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 90° Elbow - Short Drop	39	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 90° Elbow - Medium Drop	L9	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 90° Elbow - Long Drop	41	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 90° Elbow - Block Type	93	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - Straight	48	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 150° Elbow	4V	.	.	.	.	.	.	.	.
Male SAE 45° - Rigid - Straight	04	.	.	.	.	.	.	.	.
Female SAE 45° - Swivel - Straight	08	.	.	.	.	.	.	.	.
Female SAE 45 / Swivel - 45° Elbow	77	.	.	.	.	.	.	.	.
Female SAE 45 / Swivel - 90° Elbow	79	.	.	.	.	.	.	.	.
Female SAE 45 / Swivel - 90° Elbow - Long Drop	81	.	.	.	.	.	.	.	.
Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight	68	.	.	.	.	.	.	.	.
Male Ferulok Flareless - Rigid - Straight (24° Cone with Nut and Ferrule)	11	.	.	.	.	.	.	.	.
Female Ferulok Flareless - Swivel - Straight (24° Cone)	12	.	.	.	.	.	.	.	.
Male Inverted SAE 45° - Swivel - Straight	28	.	.	.	.	.	.	.	.
Male Inverted SAE 45° - Swivel - 45° Elbow	67	.	.	.	.	.	.	.	.
Male Inverted SAE 45° - Swivel - 90° Elbow	69	.	.	.	.	.	.	.	.
Male Inverted SAE 45° - Swivel - 90° Elbow - Long (In-Line)	71	.	.	.	.	.	.	.	.
Female Inverted SAE 45° - Rigid - Straight	29	.	.	.	.	.	.	.	.
Male Tube-O - Swivel - Straight - Short Pilot	S5	.	.	.	.	.	.	.	.
Male Tube-O - Swivel - Straight - Short Pilot with Charge Port for R12	S5-PR	.	.	.	.	.	.	.	.
Male Tube-O - Swivel - Straight - Long Pilot	45	.	.	.	.	.	.	.	.
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R12	45-PR	.	.	.	.	.	.	.	.



Hose  
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**Standard Fitting Configurations by End Code and Series** (page 2 of 8)

Description	End Code	Standard Fittings Series								
		20	21	22	23	30	42	82	88	TB
Male NPTF Pipe - Rigid - Straight	01	.	.	.		.	.	.	.	.
Male NPTF Pipe - Swivel - Straight	13					.	.	.	.	.
Male NPTF Pipe - Swivel - 90° Elbow	1L									
Male API Pipe - Rigid - Straight	AP									
Female NPTF Pipe - Rigid - Straight	02							.		
Female NPSM Pipe - Swivel - Straight (60° Cone)	07									
Female NPTF Pipe - Swivel - Straight	S2									
Female NPSM Pipe - Gasket Joint - Swivel - Straight	7G							.		
Female Grease Connection - SPL-PTF Taper Thread - Rigid - Straight - ½ x 27	GJ									
Male NPTF Pipe - Rigid - 45° Elbow	31								.	.
Male NPTF Pipe - Rigid - 90° Elbow or Side Outlet	21								.	.
Male SAE Straight Thread with O-Ring - Rigid - Straight	05					.	.		.	.
Male SAE Straight Thread with O-Ring - Swivel - Straight	0G								.	.
Male SAE Straight Thread with O-Ring - Adjustable - 45° Elbow	25									.
Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow	0L									.
Male SAE Straight Thread with O-Ring - Adjustable - 90° Elbow	35									.
Male JIC 37° - Rigid - Straight	03	.				.	.	.	.	.
Male JIC 37° - Bulkhead without Locknut - Straight	LB									
Female JIC 37° - Swivel - Straight	06	.	.	.	.	.	.	.	.	.
Female JIC 37° - Swivel - 45° Elbow - Short Drop	37	.	.			.	.	.	.	.
Female JIC 37° - Swivel - 45° Elbow - Medium Drop	L7									
Female JIC 37° - Swivel - 90° Elbow - Short Drop	39	.	.			.	.	.		
Female JIC 37° - Swivel - 90° Elbow - Medium Drop	L9									
Female JIC 37° - Swivel - 90° Elbow - Long Drop	41	.	.			.	.	.		
Female JIC 37° - Swivel - 90° Elbow - Long Drop	41	.	.			.	.	.		
Female JIC 37° - Swivel - Straight	48					.	.			
Female JIC 37° - Swivel - 150° Elbow	4V						.			
Male SAE 45° - Rigid - Straight	04	.						.		
Female SAE 45° - Swivel - Straight	08	.	.	.	.	.	.	.	.	.
Female SAE 45 / Swivel - 45° Elbow	77	.	.					.		
Female SAE 45 / Swivel - 90° Elbow	79	.	.					.		
Female SAE 45 / Swivel - 90° Elbow - Long Drop	81	.	.					.		
Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight	68									
Male Ferulok Flareless - Rigid - Straight (24° Cone with Nut and Ferrule)	11	.				.	.			
Female Ferulok Flareless - Swivel - Straight (24° Cone)	12					.	.			
Male Inverted SAE 45° - Swivel - Straight	28	.	.					.		
Male Inverted SAE 45° - Swivel - 45° Elbow	67	.	.					.		
Male Inverted SAE 45° - Swivel - 90° Elbow	69	.	.					.		
Male Inverted SAE 45° - Swivel - 90° Elbow - Long (In-Line)	71	.	.					.		
Female Inverted SAE 45° - Rigid - Straight	29							.		
Male Tube-O - Swivel - Straight - Short Pilot	S5		.							
Male Tube-O - Swivel - Straight - Short Pilot with Charge Port for R12	S5-PR									
Male Tube-O - Swivel - Straight - Long Pilot	45		.							
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R12	45-PR									

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**Standard Fitting Configurations by End Code and Series** (page 3 of 8)

Description	End Code	Standard Fittings							
		Series							
		26	43	70	71	73	78	79	HY
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R134a	45-PT	.							
Female Tube-O - Swivel - 90° Elbow - Long Pilot	5L								
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5L-PB	.							
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5L-PR	.							
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5L-PT	.							
Male Tube-O - Swivel - 90° Elbow - Long Pilot	5M	.							
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5M-PR	.							
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PT	.							
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PT90	.							
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step)	5G	.							
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step) with Charge Port for R12	5G-PR	.							
Male Tube-O - Swivel - 45° Elbow - Short Pilot	5R	.							
Male Tube-O - Swivel - 45° Elbow - Long Pilot	5P								
Male Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for R134a	5P-PT	.							
Male Tube-O - Swivel - 90° Elbow - Short Pilot	5K	.							
Male Tube-O - Swivel - 90° Elbow - Short Pilot with Charge Port for R12	5K-PB	.							
Male Tube-O - Swivel - 90° Elbow - Short Pilot with Charge Port for R12	5K-PR	.							
Female Tube-O - Swivel - Straight - Short Pilot	5S	.							
Female Tube-O - Swivel - Straight - Long Pilot	59								
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port for 134a	59-PB	.							
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port for 134a	59-PT	.							
Female Tube-O - Swivel - 45° Elbow - Short Pilot	5H	.							
Female Tube-O - Swivel - 45° Elbow - Long Pilot	5N								
Female Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for 134a	5N-PB	.							
Female Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for 134a	5N-PT	.							
Female Tube-O - Swivel - 90° Elbow - Short Pilot	5T	.							
Female Air Brake Jounce Line - Swivel - Straight	7B	.							
Female Compressor - Swivel - 45° Elbow	5V	.							
Female Compressor - Swivel - 90° Elbow	5W	.							
Female Compressor - Swivel - 90° Elbow - Block Type	5Z	.							
Female Compressor - Swivel - 135° Elbow	RV	.							
Female Compressor - Swivel - 180° Elbow - Block Type	RZ	.							
Male Refrigerant Tube Mender - Straight (with Nut and Ferrule)	T1	.							
Female PTT 30° - Swivel - Straight	32								
Male SAE Compression Seat (without Nut or Sleeve)	61								
Male Hydra-Clip - Rigid - Straight	S0		.						

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**Standard Fitting Configurations by End Code and Series** (page 4 of 8)

Description	End Code	Standard Fittings Series								
		20	21	22	23	30	42	82	88	TB
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R134a	45-PT									
Female Tube-O - Swivel - 90° Elbow - Long Pilot	5L		.							
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5L-PB									
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5L-PR									
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5L-PT									
Male Tube-O - Swivel - 90° Elbow - Long Pilot	5M		.							
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5M-PR									
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PT									
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PV									
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step)	5G									
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step) with Charge Port for R12	5G-PR									
Male Tube-O - Swivel - 45° Elbow - Short Pilot	5R		.							
Male Tube-O - Swivel - 45° Elbow - Long Pilot	5P		.							
Male Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for R134a	5P-PT									
Male Tube-O - Swivel - 90° Elbow - Short Pilot	5K		.							
Male Tube-O - Swivel - 90° Elbow - Short Pilot with Charge Port for R12	5K-PB									
Male Tube-O - Swivel - 90° Elbow - Short Pilot with Charge Port for R12	5K-PR									
Female Tube-O - Swivel - Straight - Short Pilot	5S		.							
Female Tube-O - Swivel - Straight - Long Pilot	59		.							
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port for 134a	59-PB									
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port for 134a	59-PT									
Female Tube-O - Swivel - 45° Elbow - Short Pilot	5H		.							
Female Tube-O - Swivel - 45° Elbow - Long Pilot	5N		.							
Female Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for 134a	5N-PB									
Female Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for 134a	5N-PT									
Female Tube-O - Swivel - 90° Elbow - Short Pilot	5T		.							
Female Air Brake Jounce Line - Swivel - Straight	7B									
Female Compressor - Swivel - 45° Elbow	5V									
Female Compressor - Swivel - 90° Elbow	5W									
Female Compressor - Swivel - 90° Elbow - Block Type	5Z									
Female Compressor - Swivel - 135° Elbow	RV									
Female Compressor - Swivel - 180° Elbow - Block Type	RZ									
Male Refrigerant Tube Mender - Straight (with Nut and Ferrule)	T1									
Female PTT 30° - Swivel - Straight	32	.	.	.	.					
Male SAE Compression Seat (without Nut or Sleeve)	61	.	.							
Male Hydra-Clip - Rigid - Straight	S0									

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**Standard Fitting Configurations by End Code and Series** (page 5 of 8)

Description	End Code	Standard Fittings Series							
		26	43	70	71	73	78	79	HY
Two Hole (2.25" X 0.44") Flange - Rigid - 90° Elbow	2H								
SAE Code 61 Flange Head - Straight - ISO 12151-3 - S - L	15	•	•	•	•	•	•		
SAE Code 61 Flange Head - Straight - ISO 12151-3 - S - L	4A					•	•		
SAE Code 61 Flange Head - 22½° Elbow - ISO 12151-3 - E22M - L	16		•		•				
SAE Code 61 Flange Head - 30° Elbow - ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)	26		•		•				
SAE Code 61 Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	17		•	•	•	•	•		
SAE Code 61 Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	4F					•	•		
SAE Code 61 Flange Head - 60° Elbow - ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)	27		•		•				
SAE Code 61 Flange Head - 67½° Elbow - ISO 12151-3 - E67S - L (1 Piece: ISO 12151-3 - E67M - L)	18		•		•				
SAE Code 61 Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	19	•	•	•	•	•	•		
SAE Code 61 Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	4N					•	•		
SAE Code 61 Flange Head - 90° Elbow - Long Drop	89				•				
SAE Code 61 Flange Head - 110° Elbow	2U				•				
SAE Code 62 Flange Head - Straight - ISO 12151-3 - S - S	6A			•	•	•	•	•	
SAE Code 62 Flange Head - 22½° Elbow - ISO 12151-3 - E22S - S (1 Piece: ISO 12151-3 - E22M - S)	6B						•		
SAE Code 62 Flange Head - 30° Elbow - ISO 12151-3 - E30S-S (1 Piece: ISO 12151-3 - E30M - S)	6E						•		
SAE Code 62 Flange Head - 45° Elbow - ISO 12151-3 - E45S-S (1 Piece: ISO 12151-3 - E45M - S)	6F				•	•	•	•	
SAE Code 62 Flange Head - 60° Elbow - ISO 12151-3 - E60S-S (1 Piece: ISO 12151-3 - E60M - S)	6G						•	•	
SAE Code 62 Flange Head - 90° Elbow - ISO 12151-3 - E90S-S (1 Piece: ISO 12151-3 - E90M - S)	6N			•	•	•	•	•	
Caterpillar <sup>®</sup> Flange Head - Straight	XA						•		
Caterpillar <sup>®</sup> Flange Head - 22½° Elbow	XB						•		
Caterpillar <sup>®</sup> Flange Head - 30° Elbow	XE						•		
Caterpillar <sup>®</sup> Flange Head - 45° Elbow	XF						•		
Caterpillar <sup>®</sup> Flange Head - 60° Elbow	XG						•		
Caterpillar <sup>®</sup> Flange Head - 67½° Elbow	XM						•		
Caterpillar <sup>®</sup> Flange Head - 90° Elbow	XN						•		
Male Seal-Lok - Rigid - Straight (with O-Ring) - ISO 12151-1 - S	J0		•		•				•
Male Seal-Lok - Bulkhead without Locknut - Straight (without O-Ring) - ISO 8434-3 - BH	JB		•						
Female Seal-Lok - Swivel - Straight - Long - ISO 12151-1 - SWSB	JS		•	•	•	•	•	•	•
Female Seal-Lok - Swivel - Straight - Short - ISO 12151-1 - SWSA	JC	•	•	•	•				•
Female Seal-Lok - Swivel - 22½° Elbow - ISO 8434-3	J6		•						
Female Seal-Lok - Swivel - 45° Elbow - ISO 12151-1 - SWE45	J7	•	•	•	•	•	•	•	•

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**Standard Fitting Configurations by End Code and Series** (page 6 of 8)

Description	End Code	Standard Fittings Series								
		20	21	22	23	30	42	82	88	TB
Two Hole (2.25" X 0.44") Flange - Rigid - 90° Elbow	2H									
SAE Code 61 Flange Head - Straight - ISO 12151-3 - S - L	15	•	•							
SAE Code 61 Flange Head - Straight - ISO 12151-3 - S - L	4A					•	•		•	
SAE Code 61 Flange Head - 22½° Elbow - ISO 12151-3 - E22M - L	16									
SAE Code 61 Flange Head - 30° Elbow - ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)	26									
SAE Code 61 Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	17	•				•	•		•	
SAE Code 61 Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	4F									
SAE Code 61 Flange Head - 60° Elbow - ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)	27									
SAE Code 61 Flange Head - 67½° Elbow - ISO 12151-3 - E67S - L (1 Piece: ISO 12151-3 - E67M - L)	18									
SAE Code 61 Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	19	•				•	•		•	
SAE Code 61 Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	4N									
SAE Code 61 Flange Head - 90° Elbow - Long Drop	89									
SAE Code 61 Flange Head - 110° Elbow	2U									
SAE Code 62 Flange Head - Straight - ISO 12151-3 - S - S	6A									
SAE Code 62 Flange Head - 22½° Elbow - ISO 12151-3 - E22S - S (1 Piece: ISO 12151-3 - E22M - S)	6B									
SAE Code 62 Flange Head - 30° Elbow - ISO 12151-3 - E30S-S (1 Piece: ISO 12151-3 - E30M - S)	6E									
SAE Code 62 Flange Head - 45° Elbow - ISO 12151-3 - E45S-S (1 Piece: ISO 12151-3 - E45M - S)	6F									
SAE Code 62 Flange Head - 60° Elbow - ISO 12151-3 - E60S-S (1 Piece: ISO 12151-3 - E60M - S)	6G									
SAE Code 62 Flange Head - 90° Elbow - ISO 12151-3 - E90S-S (1 Piece: ISO 12151-3 - E90M - S)	6N									
Caterpillar <sup>®</sup> Flange Head - Straight	XA									
Caterpillar <sup>®</sup> Flange Head - 22½° Elbow	XB									
Caterpillar <sup>®</sup> Flange Head - 30° Elbow	XE									
Caterpillar <sup>®</sup> Flange Head - 45° Elbow	XF									
Caterpillar <sup>®</sup> Flange Head - 60° Elbow	XG									
Caterpillar <sup>®</sup> Flange Head - 67½° Elbow	XM									
Caterpillar <sup>®</sup> Flange Head - 90° Elbow	XN									
Male Seal-Lok - Rigid - Straight (with O-Ring) - ISO 12151-1 - S	J0							•		
Male Seal-Lok - Bulkhead without Locknut - Straight (without O-Ring) - ISO 8434-3 - BH	JB									
Female Seal-Lok - Swivel - Straight - Long - ISO 12151-1 - SWSB	JS	•				•	•			
Female Seal-Lok - Swivel - Straight - Short - ISO 12151-1 - SWSA	JC							•		
Female Seal-Lok - Swivel - 22½° Elbow - ISO 8434-3	J6									
Female Seal-Lok - Swivel - 45° Elbow - ISO 12151-1 - SWE45	J7	•				•	•	•		

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Standard Fitting Configurations by End Code and Series (page 7 of 8)

Description	End Code	Standard Fittings Series							
		26	43	70	71	73	78	79	HY
Female Seal-Lok - Swivel - 90° Elbow - Short Drop - ISO 12151-1 - SWES90	J9	■	■	■	■	■	■	■	■
Female Seal-Lok - Swivel - 90° Elbow - Medium Drop - ISO 12151-1 - SWSB	J5		■	■	■				
Female Seal-Lok - Swivel - 90° Elbow - Long Drop - ISO 12151-1 - SWEL90	J1		■	■	■				■
Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34								■
Push-Lok Union	82								
Hose Splicer	88								
Male Metric L - Rigid - Straight (24° Cone) - ISO 8434-1	D0		■						■
Male Standpipe Metric L - Rigid - Straight	1D		■						
Female Metric - Swivel - Straight (Ball Nose)	C0		■						
Female Metric L - Swivel - Straight (Ball Nose)	C3		■						
Female Metric L - Swivel - 45° Elbow (Ball Nose)	C4		■						
Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5		■						
Female Metric L - Swivel - Straight (24° Cone with O-Ring) - ISO 12151-2 - SWS	CA		■						
Female Metric L - Swivel - 45° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE45	CE		■						
Female Metric L - Swivel - 90° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE	CF		■						
Male Metric S - Rigid - Straight (24° Cone) - ISO 12151-2 - S - S	D2		■		■	■	■	■	■
Male Standpipe Metric S - Rigid - Straight	3D		■						■
Female Metric S - Swivel - Straight (Ball Nose)	C6		■						
Female Metric S - Swivel - 45° Elbow (Ball Nose)	C7								
Female Metric S - Swivel - 90° Elbow (Ball Nose)	C8								
Female Metric S - Swivel - Straight (24° Cone with O-Ring) - ISO 12151-2 - SWS - S	C9		■	■	■	■	■		
Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE45 - S	0C		■			■	■		
Female Metric S - Swivel - 90° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE - S	1C		■			■	■		
Male BSP Taper Pipe - Rigid - Straight	91								
Female BSP Parallel Pipe - Swivel - Straight (60° Cone) - ISO 228-1	92		■						
Male BSP Parallel Pipe - Rigid - Straight (60° Cone) - ISO 228-1	D9		■						■
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone) - ISO 228-1	B1		■						
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone) - ISO 228-1	B2		■						
Female BSP Parallel Pipe - Swivel - 90° Elbow Block Type (60° Cone) - ISO 228-1	B4		■						
Female BSP Parallel Pipe - Swivel - Straight (Flat Seat) - ISO 228-1	B5		■						
Female Metric - Swivel - Straight (30° Flare)	MU		■		■				
Female Metric - Swivel - Straight (30° Flare)	XU		■		■				■
Female BSP Parallel Pipe - Swivel - Straight (30° Flare) - ISO 228-1	FU		■		■				
Male BSP Taper Pipe - Rigid - Straight (60° Cone)	UT		■		■				■
Male BSP Taper Pipe - Rigid - 45° Elbow	BV								
Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet	BZ								
Female BSP Parallel Pipe - Swivel - Straight (60° Cone) - ISO 228-1	GU		■	■	■	■	■		■
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	G1					■			
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	G2					■			
Male French Gaz Series - Rigid - Straight (24° Cone)	FG			■		■			
Female French Gaz Series - Swivel - Straight (Ball Nose)	F4		■						
DIN Metric Banjo - Straight	49		■						
88 Series Heavy Duty Hose Clamp (Double Bolt Hose Clamp)	88DB								
88 Series Hose Clamp-SAE 100R4 Two-Bolt Clamp Subassembly	88HC-H								
88 Series Hose Clamp (Worm Gear)	88HC								

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Description	End Code	Standard Fittings								
		Series								
		20	21	22	23	30	42	82	88	TB
Female Seal-Lok - Swivel - 90° Elbow - Short Drop - ISO 12151-1 - SWES90	J9	■				■	■	■		
Female Seal-Lok - Swivel - 90° Elbow - Medium Drop - ISO 12151-1 - SWSB	J5							■		
Female Seal-Lok - Swivel - 90° Elbow - Long Drop - ISO 12151-1 - SWEL90	J1	■				■	■	■		
Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34							■		
Push-Lok Union	82							■		
Hose Splicer	88								■	
Male Metric L - Rigid - Straight (24° Cone) - ISO 8434-1	D0	■				■	■	■		
Male Standpipe Metric L - Rigid - Straight	1D	■				■	■	■		
Female Metric - Swivel - Straight (Ball Nose)	C0									
Female Metric L - Swivel - Straight (Ball Nose)	C3	■				■	■	■		
Female Metric L - Swivel - 45° Elbow (Ball Nose)	C4					■	■	■		
Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5	■				■	■	■		
Female Metric L - Swivel - Straight (24° Cone with O-Ring) - ISO 12151-2 - SWS	CA									
Female Metric L - Swivel - 45° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE45	CE									
Female Metric L - Swivel - 90° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE	CF									
Male Metric S - Rigid - Straight (24° Cone) - ISO 12151-2 - S - S	D2					■	■			
Male Standpipe Metric S - Rigid - Straight	3D					■	■			
Female Metric S - Swivel - Straight (Ball Nose)	C6					■	■			
Female Metric S - Swivel - 45° Elbow (Ball Nose)	C7					■	■			
Female Metric S - Swivel - 90° Elbow (Ball Nose)	C8					■	■			
Female Metric S - Swivel - Straight (24° Cone with O-Ring) - ISO 12151-2 - SWS - S	C9					■	■			
Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE45 - S	0C									
Female Metric S - Swivel - 90° Elbow (24° Cone with O-Ring) - ISO 12151-2 - SWE - S	1C									
Male BSP Taper Pipe - Rigid - Straight	91							■		
Female BSP Parallel Pipe - Swivel - Straight (60° Cone) - ISO 228-1	92					■	■	■		
Male BSP Parallel Pipe - Rigid - Straight (60° Cone) - ISO 228-1	D9					■	■	■		
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone) - ISO 228-1	B1					■	■			
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone) - ISO 228-1	B2					■	■	■		
Female BSP Parallel Pipe - Swivel - 90° Elbow Block Type (60° Cone) - ISO 228-1	B4									
Female BSP Parallel Pipe - Swivel - Straight (Flat Seat) - ISO 228-1	B5									
Female Metric - Swivel - Straight (30° Flare)	MU									
Female Metric - Swivel - Straight (30° Flare)	XU									
Female BSP Parallel Pipe - Swivel - Straight (30° Flare) - ISO 228-1	FU									
Male BSP Taper Pipe - Rigid - Straight (60° Cone)	UT									
Male BSP Taper Pipe - Rigid - 45° Elbow	BV							■		
Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet	BZ							■		
Female BSP Parallel Pipe - Swivel - Straight (60° Cone) - ISO 228-1	GU									
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	G1									
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	G2									
Male French Gaz Series - Rigid - Straight (24° Cone)	FG									
Female French Gaz Series - Swivel - Straight (Ball Nose)	F4									
DIN Metric Banjo - Straight	49							■		
88 Series Heavy Duty Hose Clamp (Double Bolt Hose Clamp)	88DB									
88 Series Hose Clamp-SAE 100R4 Two-Bolt Clamp Subassembly	88HC-H								■	
88 Series Hose Clamp (Worm Gear)	88HC								■	■

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**Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories**

Parker Publication No. 4400-B.1  
Revised: May, 2002

**WARNING:** Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories (“Products”) can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions below. Only Hose from Parker’s Stratoflex Products Division is approved for in flight aerospace applications, and no other Hose can be used for such in flight applications.

**1.0 GENERAL INSTRUCTIONS**

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) these Products. For convenience, all rubber and/or thermoplastic products commonly called “hose” or “tubing” are called “Hose” in this safety guide. All assemblies made with Hose are called “Hose Assemblies”. All products commonly called “fittings” or “couplings” are called “Fittings”. All related accessories (including crimping and swaging machines and tooling) are called “Related Accessories”. This safety guide is a supplement to and is to be used with, the specific Parker publications for the specific Hose, Fittings and Related Accessories that are being considered for use.

1.2 Fail-Safe: Hose, and Hose Assemblies and Fittings can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the Hose or Hose Assembly or Fitting will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person that is responsible for selecting or using Hose and Fitting products. Do not select or use Parker Hose or Fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility: Due to the wide variety of operating conditions and applications for Hose and Fittings, Parker and its distributors do not represent or warrant that any particular Hose or Fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the Hose and Fitting.
- Assuring that the user’s requirements are met and that the application presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the Hose and Fittings are used.
- Assuring compliance with all applicable government and industry standards.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, or call 1-800-CPARKER, or go to [www.parker.com](http://www.parker.com), for telephone numbers of the appropriate technical service department.

**2.0 HOSE AND FITTING SELECTION INSTRUCTIONS**

2.1 Electrical Conductivity: Certain applications require that the Hose be nonconductive to prevent electrical current flow. Other applications require the Hose and the Fitting and the Hose/Fitting interface to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting Hose and Fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor.

The electrical conductivity or nonconductivity of Hose and Fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the Hose and the Fittings,

Fitting finish (some Fitting finishes are electrically conductive while others are nonconductive), manufacturing methods (including moisture control), how the Fittings contact the Hose, age and amount of deterioration or damage or other changes, moisture content of the Hose at any particular time, and other factors.

The following are considerations for electrically nonconductive and conductive Hose. For other applications consult the individual catalog pages and the appropriate industry or regulatory standards for proper selection.

2.1.1 Electrically Nonconductive Hose: Certain applications require that the Hose be nonconductive to prevent electrical current flow or to maintain electrical isolation. For these applications that require Hose to be electrically nonconductive, including but not limited to applications near high voltage electric lines, only special nonconductive Hose can be used. The manufacturer of the equipment in which the nonconductive Hose is to be used must be consulted to be certain that the Hose and Fittings that are selected are proper for the application. Do not use any Parker Hose or Fitting for any such application requiring nonconductive Hose, including but not limited to applications near high voltage electric lines, unless (i) the application is expressly approved in the Parker technical publication for the product, (ii) the Hose is marked “nonconductive”, and (iii) the manufacturer of the equipment on which the Hose is to be used specifically approves the particular Parker Hose and Fitting for such use.

2.1.2 Electrically Conductive Hose: Parker manufacturers special Hose for certain applications that require electrically conductive Hose.

Parker manufactures special Hose for conveying paint in airless paint spraying applications. This Hose is labeled “Electrically Conductive Airless Paint Spray Hose” on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in all airless paint spraying applications. Do not use any other Hose for airless paint spraying, even if electrically conductive. Use of any other Hose or failure to properly connect the Hose can cause a fire or an explosion resulting in death, personal injury, and property damage.

Parker manufactures a special Hose for certain compressed natural gas (“CNG”) applications where static electricity buildup may occur. Parker CNG Hose assemblies comply with AGA Requirements 1-93, “Hoses for Natural Gas Vehicles and Fuel Dispensers”. This Hose is labeled “Electrically Conductive for CNG Use” on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other Hose for CNG applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against CNG permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG Hose is intended for dispenser and vehicle use at a maximum temperature of 180°F. Parker CNG Hose should not be used in confined spaces or unventilated areas or areas exceeding 180°F. Final assemblies must be tested for leaks. CNG Hose Assemblies should be tested on a monthly basis for conductivity per AGA 1-93.

Hose	A
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Hose  
A

Parker manufacturers special Hose for aerospace in flight applications. Aerospace in flight applications employing Hose to transmit fuel, lubricating fluids and hydraulic fluids require a special Hose with a conductive inner tube. This Hose for in flight applications is available only from Parker's Stratoflex Products Division. Do not use any other Parker Hose for in flight applications, even if electrically conductive. Use of other Hoses for in flight applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. These Hose assemblies for in flight applications must meet all applicable aerospace industry, aircraft engine, and aircraft requirements.

Fittings  
B

2.2 Pressure: Hose selection must be made so that the published maximum recommended working pressure of the Hose is equal to or greater than the maximum system pressure. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the Hose. Surge pressures and peak pressures can usually only be determined by sensitive electrical instrumentation that measures and indicates pressures at millisecond intervals. Mechanical pressure gauges indicate only average pressures and cannot be used to determine surge pressures or peak transient pressures. Published burst pressure ratings for Hose is for manufacturing test purposes only and is no indication that the Product can be used in applications at the burst pressure or otherwise above the published maximum recommended working pressure.

Parkrimp  
Crimping  
Equipment  
C

2.3 Suction: Hoses used for suction applications must be selected to insure that the Hose will withstand the vacuum and pressure of the system. Improperly selected Hose may collapse in suction application.

2.4 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the Hose. Temperatures below and above the recommended limit can degrade Hose to a point where a failure may occur and release fluid. Properly insulate and protect the Hose Assembly when routing near hot objects (e.g. manifolds). Do not use any Hose in any application where failure of the Hose could result in the conveyed fluids (or vapors or mist from the conveyed fluids) contacting any open flame, molten metal, or other potential fire ignition source that could cause burning or explosion of the conveyed fluids or vapors.

Hose  
Assembly  
Equipment  
D

2.5 Fluid Compatibility: Hose Assembly selection must assure compatibility of the Hose tube, cover, reinforcement, and Fittings with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis.

Hose that is chemically compatible with a particular fluid must be assembled using Fittings and adapters containing likewise compatible seals.

Adapters  
E

2.6 Permeation: Permeation (that is, seepage through the Hose) will occur from inside the Hose to outside when Hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, diesel fuel, gasoline, natural gas, or LPG). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong Hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use Hose if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a Hose even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the Hose Assembly.

Permeation of moisture from outside the Hose to inside the Hose will also occur in Hose assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly, but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.

Accessories  
F

2.7 Size: Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.8 Routing: Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to Hose collapse, twisting of the Hose, proximity to hot objects or heat sources).

2.9 Environment: Care must be taken to insure that the Hose and Fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

Appendices  
G

2.10 Mechanical Loads: External forces can significantly reduce Hose life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use

of swivel type Fittings or adapters may be required to insure no twist is put into the Hose. Unusual applications may require special testing prior to Hose selection.

2.11 Physical Damage: Care must be taken to protect Hose from wear, snagging, kinking, bending smaller than minimum bend radius, and cutting, any of which can cause premature Hose failure. Any Hose that has been kinked or bent to a radius smaller than the minimum bend radius, and any Hose that has been cut or is cracked or is otherwise damaged, should be removed and discarded.

2.12 Proper End Fitting: See instructions 3.2 through 3.5. These recommendations may be substantiated by testing to industry standards such as SAE J517 for hydraulic applications, or MIL-A-5070, AS1339, or AS3517 for Hoses from Parker's Stratoflex Products Division for aerospace applications.

2.13 Length: When establishing a proper Hose length, motion absorption, Hose length changes due to pressure, and Hose and machine tolerances and movement must be considered.

2.14 Specifications and Standards: When selecting Hose and Fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

2.15 Hose Cleanliness: Hose components may vary in cleanliness levels. Care must be taken to insure that the Hose Assembly selected has an adequate level of cleanliness for the application.

2.16 Fire Resistant Fluids: Some fire resistant fluids that are to be conveyed by Hose require use of the same type of Hose as used with petroleum base fluids. Some such fluids require a special Hose, while a few fluids will not work with any Hose at all. See instructions 2.5 and 1.5. The wrong Hose may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.

2.17 Radiant Heat: Hose can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the Hose.

2.18 Welding or Brazing: When using a torch or arc-welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire resistant materials. Flame or weld spatter could burn through the Hose and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including Hose Fittings and adapters, above 450°F (232°C) such as during welding, brazing, or soldering may emit deadly gases.

2.19 Atomic Radiation: Atomic radiation affects all materials used in Hose assemblies. Since the long-term effects may be unknown, do not expose Hose assemblies to atomic radiation.

2.20 Aerospace Applications: The only Hose and Fittings that may be used for in flight aerospace applications are those available from Parker's Stratoflex Products Division. Do not use any other Hose or Fittings for in flight applications. Do not use any Hose or Fittings from Parker's Stratoflex Products Division with any other Hose or Fittings, unless expressly approved in writing by the engineering manager or chief engineer of Stratoflex Products Division and verified by the user's own testing and inspection to aerospace industry standards.

2.21 Unlocking Couplings: Ball locking couplings or other couplings with disconnect sleeves can unintentionally disconnect if they are dragged over obstructions or if the sleeve is bumped or moved enough to cause disconnect. Threaded couplings should be considered where there is a potential for accidental uncoupling.

### 3.0 HOSE AND FITTING ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1 Component Inspection: Prior to assembly, a careful examination of the Hose and Fittings must be performed. All components must be checked for correct style, size, catalog number, and length. The Hose must be examined for cleanliness, obstructions, blisters, cover looseness, kinks, cracks, cuts or any other visible defects. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion or other imperfections. Do NOT use any component that displays any signs of nonconformance.

3.2 Hose and Fitting Assembly: Do not assemble a Parker Fitting on a Parker Hose that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Do not assemble a Parker Fitting on another manufacturer's Hose or a Parker Hose on another manufacturer's Fitting unless (i) the engineering manager or chief engineer of the appropriate Parker division approves the Assembly in writing or that combination is expressly approved in the appropriate Parker literature for the specific Parker product, and (ii) the user verifies the Assembly and the application through analysis and testing. For Parker Hose



that does not specify a Parker Fitting, the user is solely responsible for the selection of the proper Fitting and Hose Assembly procedures. See instruction 1.4. The Parker published instructions must be followed for assembling the Fittings on the Hose. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

3.3 Related Accessories: Do not crimp or swage any Parker Hose or Fitting with anything but the listed swage or crimp machine and dies in accordance with Parker published instructions. Do not crimp or swage another manufacturer's Fitting with a Parker crimp or swage die unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker Fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.5 Reusable/Permanent: Do not reuse any field attachable (reusable) Hose Fitting that has blown or pulled off a Hose. Do not reuse a Parker permanent Hose Fitting (crimped or swaged) or any part thereof. Complete Hose Assemblies may only be reused after proper inspection under section 4.0. Do not assemble Fittings to any previously used hydraulic Hose that was in service, for use in a fluid power application.

3.6 Pre-Installation Inspection: Prior to installation, a careful examination of the Hose Assembly must be performed. Inspect the Hose Assembly for any damage or defects. Do NOT use any Hose Assembly that displays any signs of nonconformance.

3.7 Minimum Bend Radius: Installation of a Hose at less than the minimum listed bend radius may significantly reduce the Hose life. Particular attention must be given to preclude sharp bending at the Hose to Fitting juncture. Any bending during installation at less than the minimum bend radius must be avoided. If any Hose is kinked during installation, the Hose must be discarded.

3.8 Twist Angle and Orientation: Hose Assembly installation must be such that relative motion of machine components does not produce twisting.

3.9 Securement: In many applications, it may be necessary to restrain, protect, or guide the Hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.

3.10 Proper Connection of Ports: Proper physical installation of the Hose Assembly requires a correctly installed port connection insuring that no twist or torque is transferred to the Hose when the Fittings are being tightened or otherwise during use.

3.11 External Damage: Proper installation is not complete without insuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.12 System Checkout: All air entrapment must be eliminated and the system pressurized to the maximum system pressure (at or below the Hose maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

3.13 Routing: The Hose Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame, or sparks, a fire or explosion may occur. See section 2.4.

**4.0 HOSE AND FITTING MAINTENANCE AND REPLACEMENT INSTRUCTIONS**

4.1 Even with proper selection and installation, Hose life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a possible Hose failure, and experience with any Hose failures in the application or in similar applications should determine the frequency of the inspection and the replacement for the Products so that Products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.7.

4.2 Visual Inspection Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the Hose Assembly:

- Fitting slippage on Hose,
- Damaged, cracked, cut or abraded cover (any reinforcement

exposed);

- Hard, stiff, heat cracked, or charred Hose;
- Cracked, damaged, or badly corroded Fittings;
- Leaks at Fitting or in Hose;
- Kinked, crushed, flattened or twisted Hose; and
- Blistered, soft, degraded, or loose cover.

4.3 Visual Inspection All Other: The following items must be tightened, repaired, corrected or replaced as required:

- Leaking port conditions;
- Excess dirt buildup;
- Worn clamps, guards or shields; and
- System fluid level, fluid type, and any air entrapment.

4.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and leaks. Personnel must avoid potential hazardous areas while testing and using the system. See section 2.2.

4.5 Replacement Intervals: Hose assemblies and elastomeric seals used on Hose Fittings and adapters will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Hose Assemblies and elastomeric seals should be inspected and replaced at specific replacement intervals, based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See section 1.2.

4.6 Hose Inspection and Failure: Hydraulic power is accomplished by utilizing high-pressure fluids to transfer energy and do work. Hoses, Fittings, and Hose Assemblies all contribute to this by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the Hoses transporting the fluids. From time to time, Hose Assemblies will fail if they are not replaced at proper time intervals. Usually these failures are the result of some form of misapplication, abuse, wear, or failure to perform proper maintenance. When Hoses fail, generally the high-pressure fluids inside escape in a stream which may or may not be visible to the user. Under no circumstances should the user attempt to locate the leak by "feeling" with their hands or any other part of their body. High-pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a Hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the Hose Assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the Hose Assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a Hose Assembly even when pumps or equipment are not operating. Tiny holes in the Hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the Hose Assembly may be examined safely.

Once the pressure has been reduced to zero, the Hose Assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a Hose Assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for Hose Assembly replacement information.

Never touch or examine a failed Hose Assembly unless it is obvious that the Hose no longer contains fluid under pressure. The high-pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

4.7 Elastomeric seals: Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.

4.8 Refrigerant gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.

4.9 Compressed natural gas (CNG): Parker CNG Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per AGA 1-93 Section 4.2 "Visual Inspection Hose/Fitting". The recommended procedure is to pressurize the Hose and check for leaks and to visually inspect the Hose for damage.

Caution: Matches, candles, open flame or other sources of ignition shall not be used for Hose inspection. Leak check solutions should be rinsed off after use.

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**MSDS'S (Available upon request.)**

Federal OSHA regulation 29 CFR 1910.1200 requires that we transmit to our customers Material Safety Data Sheets for all material covered under the law. If you are an employer in SIC 20-39 who has not yet received them, you are required to obtain them from us and provide the information to employees as directed in Section (b) of the regulation. Please contact the Hose Products Division - Technical Services Department: (PH) 440- 943-5700 (FAX) 440- 943-3129.





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Appendices  
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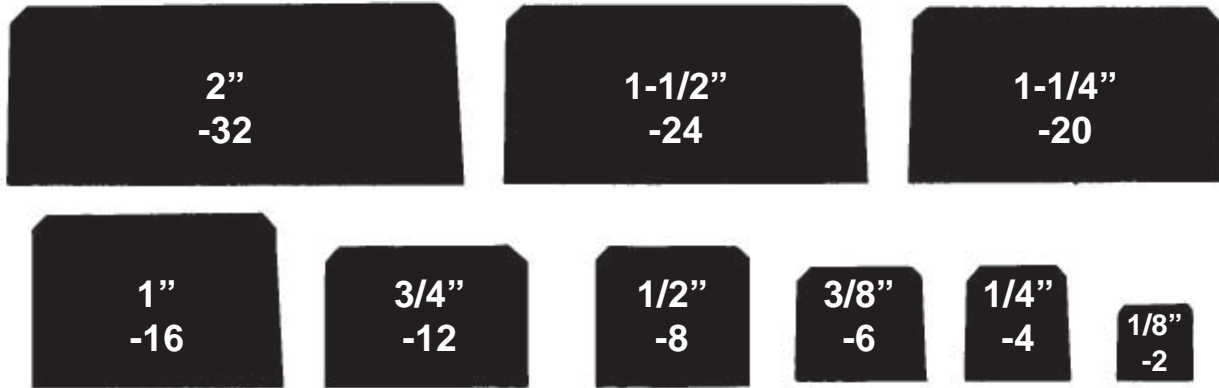
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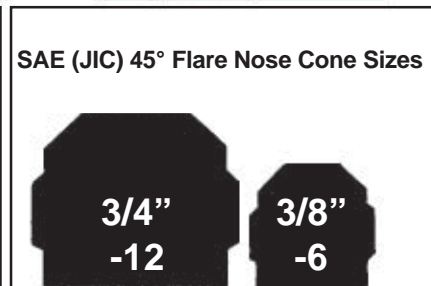
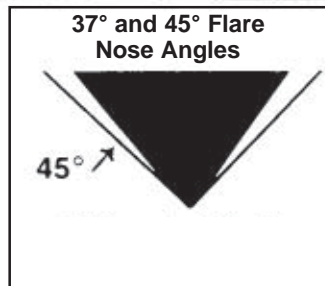
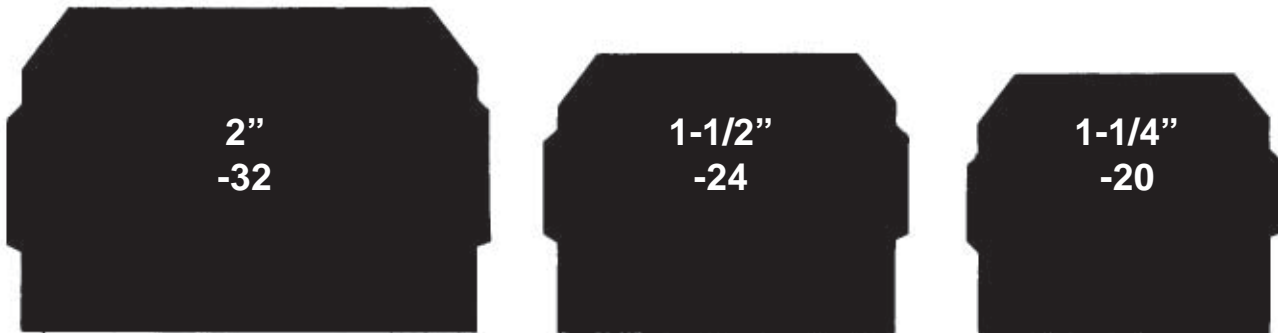
**The Parker Hose Product Division Website ([www.parkerhose.com](http://www.parkerhose.com)) offers additional product and technical information which can be of service to you.**



Male Pipe Thread Sizes



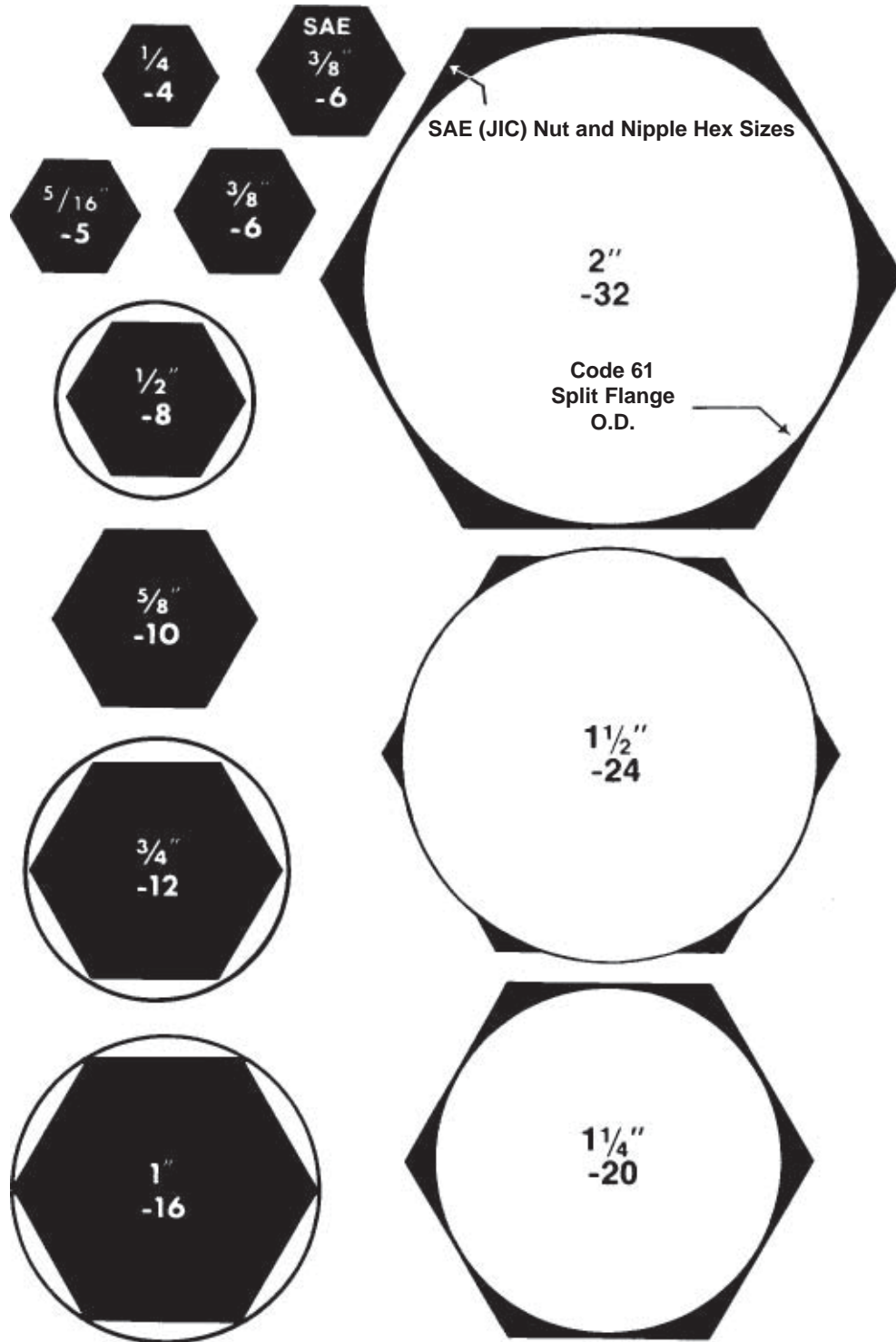
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## **Parker Hannifin Corporation**

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**How to Use This Catalog / How to Order Hose, Fittings and Hose Assemblies.**

**Hose: Hydraulic Braided** — 601, AX, 421, 482TC/ST, BXX, 301, 431, 436, 381, 471TC/ST, 472TC, 451TC/ST, 351TC/ST; **Hydraulic Spiral** — 341, CN, 721, 721TC, 772TC/ST, 781, 78C, 782TC/ST, 791TC, 792TC/ST, 701, 731; **Hydraulic Specialty** — 604, 804, 424, 304, 774, 821FR, 421WC, 426, 301LT, JK, 811 and 881; **Pneumatic** — 801, 821, 831, 836, 821FR and 804; **Engine/Air Brake/Marine/Gas** — 213, 293, 201/261, 206, 266, 225, 221FR, SS23CG and SS25UL; **Air Conditioning** — 285, 244 and 235. .... A

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**Hose Adapters:** Seal-Lok® O-Ring Face Seal, Triple-Lok JIC 37° Flared, Pipe Fitting and Port, JIS / Metric, SAE 45° Flare, Straight Thread, SAE Flareless, Pipe Swivel, 37° Flare to High & Low Pressure Flange (T3 & H3), BSP, and JIS ..... E

**Accessories:** Flange & Flange Kits, O-Rings, Hose Guards, Clamps, Hose & Fitting Bins, Hose Assembly Workstations, and Quick Disconnect Couplings ..... F

**Appendices:** Chemical Resistance Information, Standards & Specifications for Hose, Fittings & Adapters, Pressure Rating Tables & Charts, End Configuration Torque Values, Fitting End Configuration Tables, Metric Conversion Information, Hose Installation Tips, “Ferrule-Fix” Assembly Instructions, International Sales Subsidiaries, Safety Guide, Numerical Index, Fitting Hex, Thread & Flare Size Charts, and Offer of Sale Statement..... G

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