



aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



# Hose, Fittings and Equipment

Catalog 4400 October 2011



**HoseFinder**<sup>2.0</sup>  
Parker Hose Selection Guide



ENGINEERING YOUR SUCCESS.

# Parker Hannifin – the global leader and your partner



*With annual sales exceeding \$12 billion, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of mobile, industrial and aerospace markets. Our products are vital to virtually everything that moves or requires control, including the manufacture and processing of raw materials, durable goods, infrastructure development and all forms of transport.*

Within Parker's eight operating groups, the company's engineering expertise spans the core motion technologies – electromechanical, hydraulic and pneumatic – with a full complement of fluid handling, filtration, sealing and shielding, climate control, process control and aerospace technologies.

The leader in “dry technology” for the fluid power industry, Parker's Fluid Connectors Group is your single source for high-quality tube fittings, hose and hose fittings, thermoplastic tubing, brass fittings and valves, quick-disconnect couplings and assembly tools. The Fluid Connectors Group serves customers in a broad range of markets, including Aerial Lift, Agriculture, Bulk Chemical Handling, Construction Machinery,

Food & Beverage, Fuel & Gas Delivery, Industrial Machinery, Medical, Mining, Mobile, Oil & Gas and Transportation. Products are available for shipment 24 hours a day, supported by 49 manufacturing facilities throughout the world, a global distribution network and 25 company-owned stocking service centers. Our commitment to you is impeccable customer service. To meet your specific requirements, we offer a broad range of programs designed to reduce your overall operating costs, streamline manufacturing, improve productivity, manage inventory, enhance delivery and address safety and environmental issues. For value-added services that generate value-added solutions, team up with Parker!





Low, Medium, High and Ultra Pressure Hose



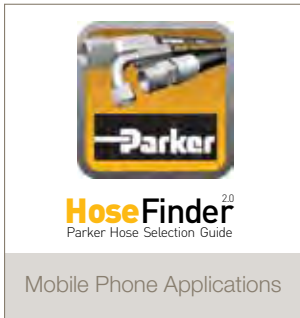
Parkrimp® Permanent Hose Fittings



Parkrimp® Assembly Equipment



Field Attachable Fittings



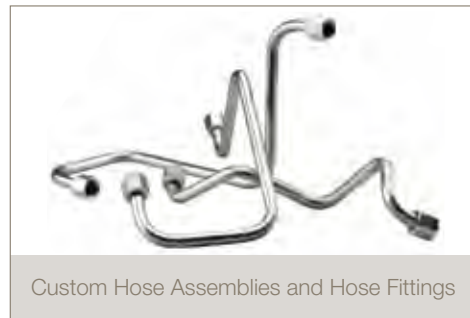
## Hose Products Division



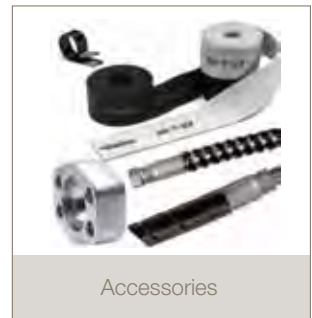
Parker Tracking System



ParkerStore™ Onsite Container Program



Custom Hose Assemblies and Hose Fittings



Accessories

*With a long history of providing premier customer service, Hose Products Division is the leading manufacturer of hose, fittings and crimping technology for industrial and hydraulic markets. Continually expanding our products to better serve the market, we offer world-class service technologies including the Parker Tracking System, Onsite containers, rapid prototyping and smart phone applications. Our division headquarters in Wickliffe, Ohio, is our precision-engineered-solution center for products, materials and processes, and is equipped with state-of-the-art development, testing and performance technology. Hose Products Division has eight manufacturing locations within the United States dedicated to delivering a quality product on time. Knowing that uptime and productivity are major drivers in your business success, we proudly present our new catalog outlining Parker's best-in-class hose products and services.*

*Best regards,*

*Beth*

*Beth Byrd  
General Manager*

## PARKER SAFETY GUIDE FOR SELECTING AND USING HOSE, TUBING, FITTINGS AND RELATED ACCESSORIES



# 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.

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.

Parker Publication No. 4400-B1 Revised 2007

## DO NOT MIX & MATCH

### DO NOT MIX & MATCH –

Components from different manufacturers should not be combined to create hose assemblies (apart from rare instances when both manufacturers have approved the exception). To mix and match components is to increase the risk of hose failure – a dangerous situation regardless of setting or application. Possible consequences of hose failure resulting from the use of incompatible components include:

- **Fittings thrown off at high speed**
- **High velocity fluid discharge**
- **Fluid injection injury**
- **Violently “whipping” hose**
- **Sparking or explosion from sprayed flammable fluids**
- **Suddenly moving / falling objects otherwise held static by fluid pressure**
- **Only assemble hoses and fittings of the same make**
- **Always use a crimper approved by the manufacturer of the hose and fittings**
- **Crimp only to the manufacturer's specification**

The individual is solely responsible for the hose assemblies he or she fabricates. Fluid power professionals should abide by three basic tenets when fabricating hose assemblies:

Parker's recommendations are consistent with SAE standard J1273: *Industry Consensus on Best Practices for Using Hydraulic Hose*. The complete technical paper, which includes SAE-recommended practices for hose assembly fabrication, can be purchased from **www.SAE.org**.

## QR READER INTRODUCTION

You'll see QR tags throughout our catalog. These tags enable you to see additional product and other content on the web using your mobile device. You'll need a QR reader to get started. Please visit [www.mobile-barcodes.com/qr-code-software](http://www.mobile-barcodes.com/qr-code-software) for more information and a list of QR code readers you can install at no cost.





# Table of contents

If you have questions about the products contained in this catalog, or their applications, please contact:

**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 is subject to change without notice. The information in this catalog is only accurate as of the date publication. For more current information, please visit **[www.parkerhose.com](http://www.parkerhose.com)**

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## 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."

**[www.parker.com/offersale](http://www.parker.com/offersale)**

## Hose

Constant Working Pressure  
Hydraulic – Industry Standard  
Suction and Return  
Push-Lok®  
Phosphate Ester  
Low Temperature  
Transportation  
Alternative/Marine Fuel  
Refrigerant

A

## Fittings

Parkrimp (crimp)  
Field Attachable

B

## Equipment

Parkrimp Crimpers  
Die Selection Charts  
Pumps  
Hose Assembly Equipment

C

## Accessories

Flange Adapters and Kits  
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D

## Technical

Size  
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E

Part Number Index  
Safety Guide

# Hose Products Division – the market leader and your supplier of choice.



## Put a bite on the braid.

*Parker's world-recognized tiger mascot has represented the Parkrimp No-Skive hose assembly program since its introduction in 1980. In a contest originally held by our marketing department, the tiger was the winning suggestion over three others: a turtle (deemed "too slow"), an alligator ("not very good looking") and a shark ("too intimidating" particularly at the time of the release of the movie Jaws).*

*More than three decades later, the tiger graphic still supports the Parkrimp message everywhere, clearly symbolizing our unique, patented Parkrimp fittings with tapered steel teeth and our Parkrimp crimping machines. Their ability to eliminate hose cover skiving and achieve the metal-to-metal grip of factory assemblies revolutionized the process for markets worldwide. And today, it's the industry standard.*

Pride in our products: At Parker, we believe the best fluid connector products for your operation are the ones that get the job done right. We offer the most comprehensive line of hoses, fittings, equipment and accessories you'll need. And if there's something you need that's not a standard product, we're able to design and manufacture it for you with ease.

You'll also benefit from our ultimate competitive advantage – our network of distribution outlets that can provide our products nearly anytime and anywhere. We strive to provide customers with local engineering, local products and local service.

Parker offers the largest selection of hoses plus more fitting sizes than any other manufacturer. You'll find a wide variety of hoses including braided, spiral and multi-purpose, and more than 4,500 Parkrimp fittings. Parker products have been designed, tested and approved to meet and exceed global standards.

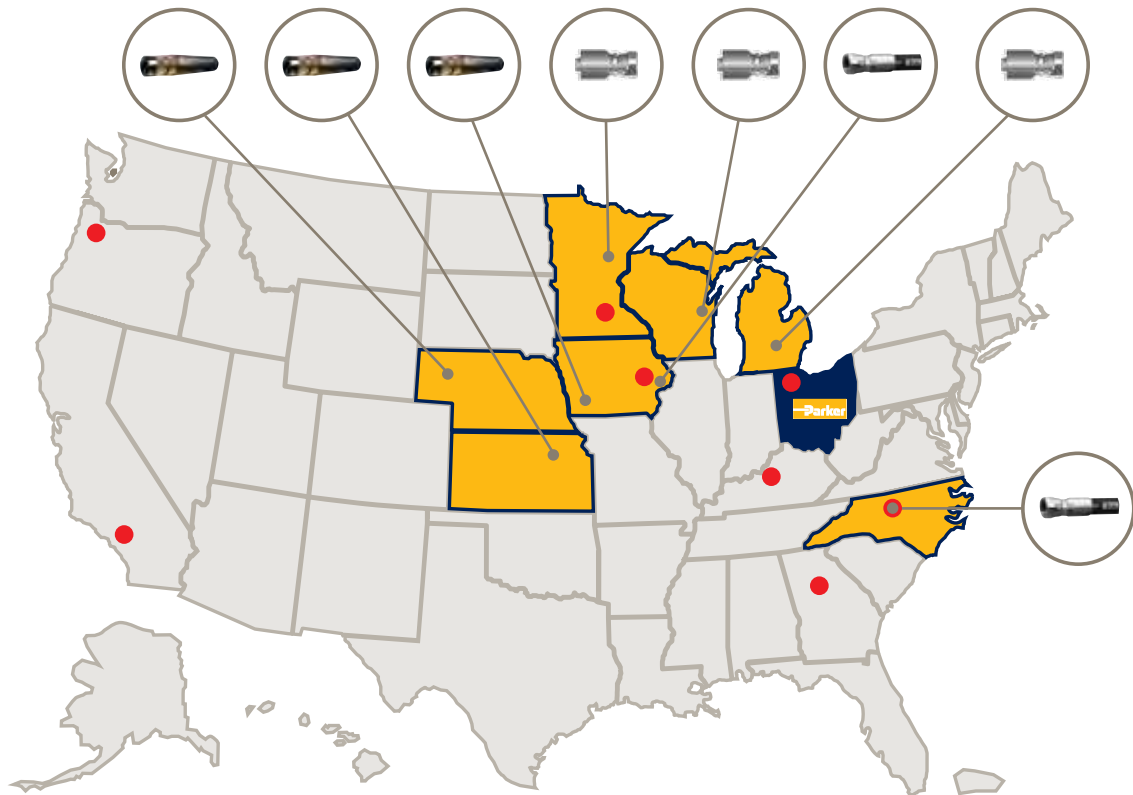


The right product is available for your application, including hose that features a variety of abrasion-resistant cover choices, flexibility, a wide range of media compatibility and more – characteristics that make Parker the hose supplier of choice for customers that demand the most from their equipment.





# Made in the U.S.A. – serving the world.



 Hose Manufacturing Plant	 Metal Manufacturing Plant	 Hose Assembly Facility	 Parker Service Center
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## CUSTOM FITTINGS



## HOSE ASSEMBLY



## TUBE ASSEMBLY & COMPOUND TUBE/HOSE ASSEMBLY








## QUALITY

Being a solutions provider means helping our customers achieve higher levels of success by engineering the best systems for their requirements. It means looking at the customer applications from many angles to find new ways to create value.

**Our customers define it, we deliver it.**

# Services – easy to do business with.

	<div><b>PARKER TRACKING SYSTEM (PTS)</b></div> <p>PTS helps customers reduce equipment and machinery downtime by increasing the speed, timing and accuracy of acquiring replacements. Using our web-based application, PTS generates a unique identification code for each hose assembly which is printed on a durable barcode or RFID label.</p> <p>PTS can eliminate costly hours of equipment downtime, helping customers achieve greater productivity and profitability.</p> <p><b><a href="http://www.parker.com/pts">www.parker.com/pts</a></b></p>		
	<div><b>MOBILE PHONE APP</b></div> <p>Need a hose or fitting? We'll help you find it. Configure your selection by using Parker's STAMP process, or browse by category for thousands of hoses, fittings and accessories. It's like a catalog in your pocket, only better. How can something so powerful, be so small?</p> <p><b><a href="http://www.hosefinder.com">www.hosefinder.com</a></b></p>		
	<div><b>KITTING</b></div> <p>Want to speed up assembly on the factory floor? Parker custom kits might be just what you're looking for. From fittings and adapters to pre-made assemblies, custom kits can hold a wide range of materials, in the exact order and quantities you need. What's the advantage? Streamlined procedures. Quicker assembly. Lower costs. And a single part number for easier processing.</p>		
	<div><b>VENDOR MANAGED INVENTORY</b></div> <p>Enjoy a customized program where Parker personnel can manage your inventory in person or remotely. Reduce overall inventory, increase your inventory turns and increase your efficiency.</p>		<div><b>CAD</b></div> <p>By making thousands of CAD files available, Parker provides its customers with the resources to do more.</p>



# Continuously developing ways to serve our customers.

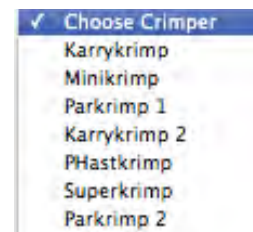
## CRIMPSOURCE™

The industry's most complete resource for crimper technical information, Crimpsource contains all of the crimp specifications approved for Parker's rubber, industrial and thermoplastic hose:

- **Crimp specs**
- **PDFs of technical manuals for easy downloading**
- **Parts lists**
- **Troubleshooting advice**
- **PDFs of crimper decals**

Crimpsource provides easy access to all of the specifications necessary to correctly fabricate a factory quality hose assembly. A series of drop down menus enables users to find what they need quickly and easily.

Choose your crimper, and then select the hose, fittings and current specifications needed to make hose assemblies. You can also print a simple-to-follow data specification sheet or crimper decal.



**[www.parker.com/crimpsource](http://www.parker.com/crimpsource)**

## BREADMAN

Lean logistics and delivery of Parker products and kits directly to the customer's assembly line, work station or warehouse.

- **100% parts availability minimizes downtime, increases production and reduces costs**
- **Elimination of stock checking reduces manpower and maintains production levels**
- **Daily delivery reduces inventory and overheads**
- **Electronic order processing eliminates paperwork and reduces administration costs**



# Parker hose meets evolving industry specifications.

## NEW Standard

International ISO Standard – many of our new hoses are designed to the recently released ISO 18752 specification. This specification allows for the performance of the hose to dictate the grading it receives. Parker knows how tough hose applications can be, and we built our newest spiral hoses to withstand the toughest requirements ISO 18752 has to offer... and more.

### Legacy

SAE hoses – pressure varies by size (R9, R10, R11, R12)

### Newer

SAE hoses (R13, R15, R17, R19) are constant pressure

### Future

ISO standard 18752

- Hose spec established in 2006
- Constant working pressure class hoses
- Differentiated performance levels
- Industry trend toward ISO specs

## ISO 18752 Performance Definitions (Section 4.2 Grades and Types)

Hoses are classified according to their resistance to impulse into four grades: A, B, C and D. Each grade is classified by outside diameter into standard types (AS, BS and CS) and compact types (AC, BC, CC and DC), as shown in the table below.

Grades and Types				
Grade	Type <sup>a</sup>	Resistance to Impulse		
		Temperature °C	Impulse Pressure (% of MWP <sup>b</sup> )	Minimum Number of Cycles
A	AS	100	133%	200,000
	AC			
B	BS	100	133%	500,000
	BC			
C	CS	120	133% and 120% <sup>c</sup>	500,000
	CC			
D	DC	120	133%	1,000,000

<sup>a</sup> Standard or compact, e.g. CS is grade C and standard type.  
Standard types have larger outside diameters and larger bend radii and compact types have smaller outside diameters and smaller bend radii.

<sup>b</sup> Maximum working pressure.

<sup>c</sup> 120% of the MWP shall be used for classes 350, 420 and 560 instead of 133%.





## ISO 18752 Pressure Classes

The ISO pressure class specification addresses the most demanding and highest performance applications.

Class		35	70	140	210	250	280	350	420	560
MWP <sup>a</sup> (bar)		35	70	140	210	250	280	350	420	560
MWP <sup>a</sup> (MPa)		3.5	7	14	21	25	28	35	42	56
MWP <sup>a</sup> (psi)		500	1000	2000	3000	3500	4000	5000	6000	8000
Nominal Size ISO      Inch										
5	-3	●	●	●	●	●	●	●	●	N/A
6.3	-4	●	●	●	●	●	●	●	●	N/A
8	-5	●	●	●	●	●	●	●	●	N/A
10	-6	●	●	●	●	●	●	●	●	N/A
12.5	-8	●	●	●	●	●	●	●	●	N/A
16	-10	●	●	●	●	●	●	●	●	●
19	-12	●	●	●	●	●	●	●	●	●
25	-16	●	●	●	●	●	●	●	●	●
31.5	-20	●	●	●	●	●	●	●	●	●
38	-24	●	●	●	●	●	●	●	●	N/A
51	-32	●	●	●	●	●	●	●	●	N/A
63	-40	●	●	N/A	N/A	N/A	N/A	N/A	N/A	N/A
76	-48	●	●	N/A	N/A	N/A	N/A	N/A	N/A	N/A
102	-64	●	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: ● = Applicable      N/A = Not Applicable      <sup>a</sup> = Maximum Working Pressure

# The Parker Tracking System (PTS)

## Global asset tagging and identification system.



PTS helps customers reduce equipment and machinery downtime by increasing the speed, timing and accuracy of acquiring replacements. Using a web-based application, PTS generates a unique identification code for each hose assembly which is printed on a durable barcode or RFID label.

PTS equipment is easy to own and operate



PTS is an advanced global tagging and tracking solution already being deployed on OEM machinery and mobile equipment in dozens of countries.

PTS can eliminate hours of costly equipment downtime, helping customers achieve greater productivity and profitability.



The Parker Tracking System is a unique and valuable service available exclusively for Parker customers.

The Parker Tracking System (PTS) is a unique and valuable service available exclusively for Parker customers. PTS reduces vehicle or asset downtime by increasing the speed, timing and accuracy of necessary hose assembly replacements.

Using a secure Web-based application, PTS generates a unique identification code for each hose assembly which is printed on an ultra-durable barcode or RFID label. PTS labels are specifically engineered to withstand harsh chemicals, temperatures, UV exposure and other challenging conditions.

### Why use PTS:

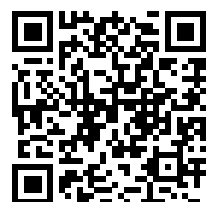
- Capture, record and recall unique hose assembly information – on demand.
- Receive fast and accurate product identification to speed replacement, regardless of where the original assembly was made.
- Hose assemblies can be replaced with only the PTS ID number, eliminating the need to remove hoses prior to replacement, providing critical machine uptime and enabling a more conveniently scheduled repair.
- Reporting tools assist in continuous improvement programs and preventative maintenance initiatives.



#### How PTS Works:

- PTS labels are customized with specific assembly information and attached to the hose when the assembly is made.
- When the assembly requires replacement, simply call your local distributor with your PTS number, or call 1-800-C-Parker to find an authorized distributor near you.
- The distributor can create an exact replacement of your hose assembly and either ship it to you or have it ready to pick up once you arrive. Distributors can also scan your hose label in-store.
- Data is collected about your failure which may help us in recommending different components or accessories designed to get the most from your machine or equipment.

PTS labels are specifically engineered to withstand harsh chemicals, temperatures, UV exposure and other challenging conditions.





# The benefits of working with Parker Hose

Bring the power of Parker to the palm of your hand.



**HoseFinder**<sup>2.0</sup>  
Parker Hose Selection Guide

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

Parker is committed to delivering customer service options to help you work smarter, faster, and better.

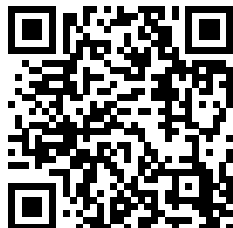
Need the latest? Go online. From complete product information on hose, to 3D-CAD models of our complete fitting line, you'll find everything you need at **[www.parkerhose.com](http://www.parkerhose.com)**.

And HoseFinder, our mobile app, makes it fast and convenient to search for hydraulic hose products and information on the go. The app features an abbreviated STAMP selection process to help you find

what you need quickly and easily. Download yours today at **[www.hosefinder.com](http://www.hosefinder.com)**.

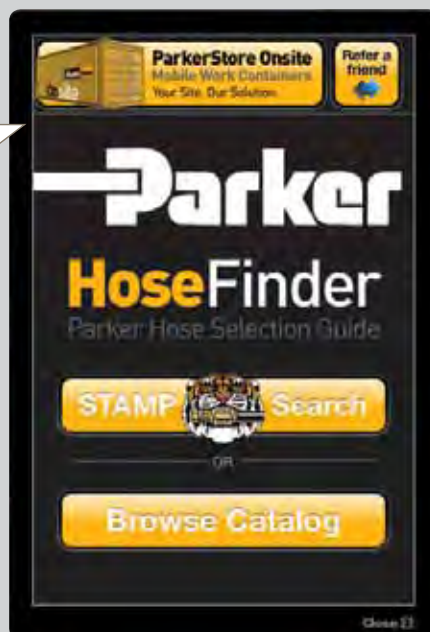
Whatever you do, visit our site often. It's the fastest and easiest way to keep up with changing technology and our ever expanding product offering.



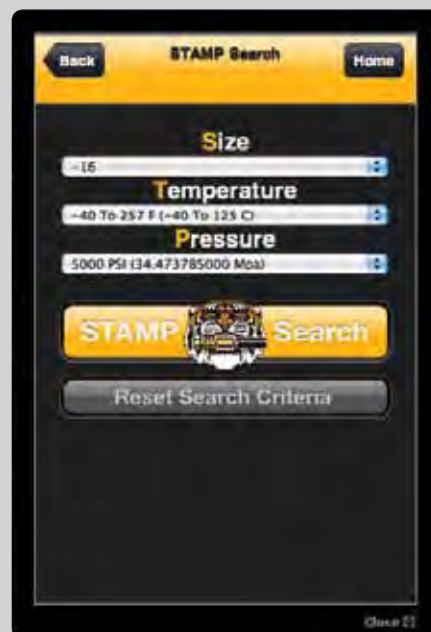


Configure your selection by using Parker's STAMP process, or browse by category for thousands of hoses, fittings and accessories.

- 1 Browse it.** It's easy to use.
- 2 STAMP it.** Use the STAMP search or browse the catalog to find the product you are looking for.
- 3 Search it.** Results include all the details you need to make an informed decision.
- 4 Find it.** Choose the "Find It" link and you'll be directed to one of Parker's 12,000 worldwide distributor locations.



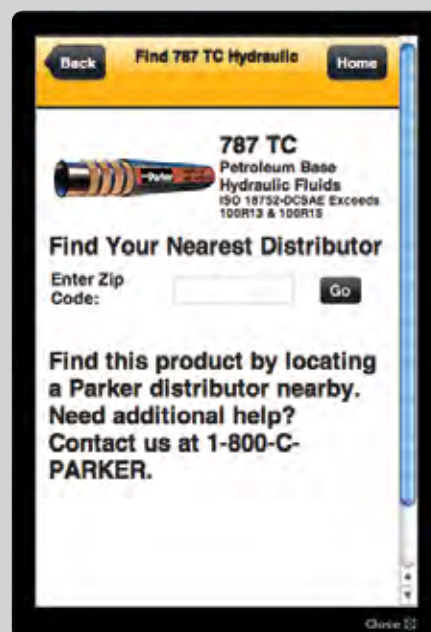
Browse it.



STAMP it.



Search it.



Find it.

HoseFinder is currently available for iPhone®, Blackberry® and Android™ mobile phones... and at no charge.

# The Parker Fluid Connectors Group

## Take advantage of our connections.

Need help with the big picture? Turn to Parker. As part of the Fluid Connectors Group, we have everything to keep the ideas flowing.

### More products

Nobody offers you more than Parker. We have the largest selection of hose, more fitting sizes and configurations than any other manufacturer. Our products deliver the exceptional quality and reliability you've come to expect from us, meeting or exceeding market standards. Plus they're available in a wide choice of materials, designs, shapes, sizes, covers, and capabilities for your specific leak-free performance requirements.

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



### More people

Our 2,100 worldwide distributors give you more places to go for more help, faster. Which means when your equipment is down, we're there for you, right near the job site.

Nobody else can equal that kind of convenient service.

### Mobile services

Parker is your best bet for on-the-job help. Our mobile services operate 24 hours a day, 7 days a week, to arrive at your plant or job site fast. Complete with factory-trained professionals to troubleshoot your problem. Our mobile vans carry a full complement of hose, all major fitting configurations, and a complete set of metrics — everything that's needed to create a replacement. It's like having your Parker distributor come to you! Find out more at [\*\*parker.com/distributors\*\*](http://parker.com/distributors).







## ParkerStores

ParkerStores provide walk-in customers with the ability to personally select the parts they need in a retail environment. Customers can see, touch, and feel the parts they're considering, and talk directly to staff when advice is needed. With more than 1,800 locations in 75 countries, ParkerStores are yet another way customers can get in, get out, and get going.



## ParkerStore Onsite mobile work containers

To provide expert service even in the most remote job site locations, the ParkerStore Onsite Program delivers a fully customized mobile workspace directly to your job site. These highly efficient and mobile container-based work sites provide all the technology, equipment and inventory needed for remote fabrication of hose and tube assemblies, and much more.

The ParkerStore Onsite container solution will significantly reduce the time it takes to obtain critical spares or fabricate replacement hose assemblies. Equipment and labor downtime are greatly reduced, keeping your operations up and running longer. Find out more at [www.parker.com/onsite](http://www.parker.com/onsite).

Your ParkerStore Onsite container can be personalized to meet your specific site or project needs.



Cargo Doors



Storage Racks and Cabinets



Full Electrical Service



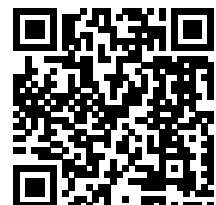
Security Doors



Heating/Cooling



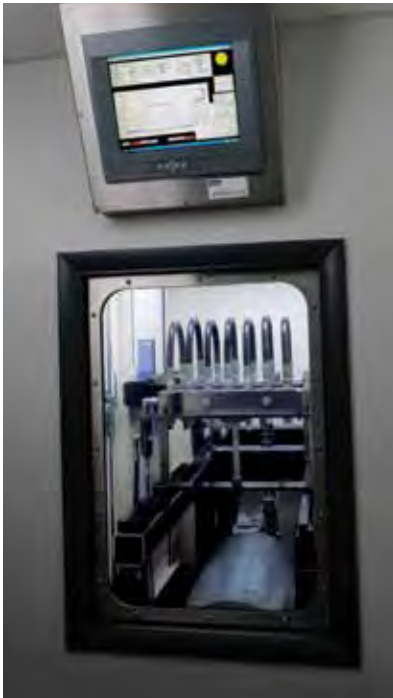
Rugged Lighting Service





# Parker testing facilities

Assuring superior quality and performance.



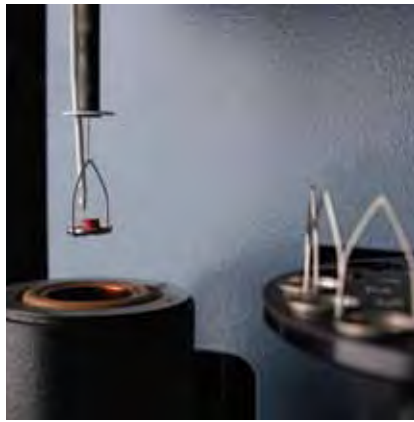
Multiple test capabilities and the latest testing technology combine to assure the integrity of Parker products globally.

Putting designs to the test, our world class development and test capabilities assure our customers of world-class quality and performance. In the field or in our advanced development and test facility, Parker is unsurpassed in both technical knowledge and testing capabilities. With the latest in technology, our state-of-the-art materials development and performance test labs are capable of determining baseline engineering and design properties. Additionally, we simulate application and environmental conditions encountered every day, both common and complex, assuring the integrity of Parker products designed to meet your needs.

Consistency in product performance starts with consistent materials. Parker's materials

development laboratory uses the latest technology in equipment and methods to evaluate the behaviors of elastomeric materials under varying conditions. Our in-house capability assures the materials in our design are engineered to withstand the extremes of application and the environment, time after time, every time.

With specialized skills, and time-tested experience, Parker engineers have built an impressive record of problem solving for our customers. We understand the importance of product selection, designed and tested to meet your unique demands. And our customers understand the value of our solutions.



Thermogravimetric analyzer



Tensometer



Soxhlet extraction



Salt spray test

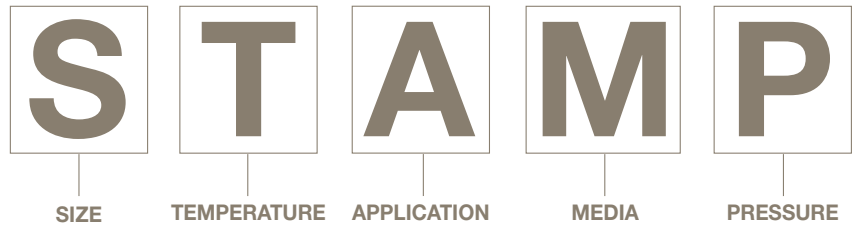


Rubber mixing

Burst Pressure Test (*below*)  
Using our state-of-the-art testing and performance technology in our precision-engineered-solutions center, we continuously look to better serve our customers by ever improving our products.



# Before you spec it, STAMP it.



When you order hose and fittings from Parker, remember the word “STAMP.” That way you won’t forget important information!

## Size

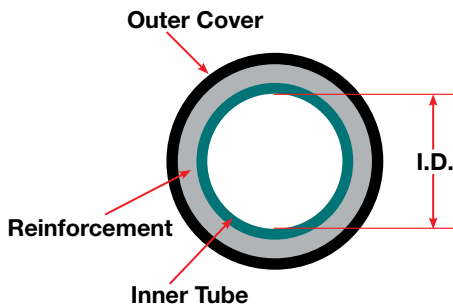
Parker uses a system of measurement called Dash Numbers to indicate hose and fitting size. The dash number, or dash size, is the measure of a hose’s Inner Diameter (I.D.) in sixteenths of an inch. (The exception to this is SAE 100R5 hose. See the chart below for complete details.)

This measuring system of the inside diameter of the hose is universally used by the fluid power industry today. Don’t know the hose size? Check the layline. If the original printing has worn off, the original hose must be cut and the inside

diameter measured. Be sure to measure the overall assembly length and fitting orientation before cutting the hose.

The hose I.D. must be sized accurately to obtain the proper flow velocity. A flow that’s too slow results in sluggish system performance, while a flow that’s too high causes excessive pressure drops, system damage, and leaks.

Use the Flow Capacity Nomogram in Section E to determine the proper hose I.D. for an application’s flow rate requirements.



The hose size is determined by the inside diameter which can be measured or found on the layline.

Hose I.D. (Inches)				
Dash No.	All Except Transportation and Refrigerant Hoses		Transportation and Refrigerant Hoses	
	Inches	Millimeters	Inches	Millimeters
-3	3/16	5	–	–
-4	1/4	6,3	3/16	5
-5	5/16	8	1/4	6,3
-6	3/8	10	5/16	8
-8	1/2	12,5	13/32	10
-10	5/8	16	1/2	12,5
-12	3/4	19	5/8	16
-16	1	25	7/8	22
-20	1-1/4	31,5	1-1/8	29
-24	1-1/2	38	1-3/8	35
-32	2	51	1-13/16	46
-40	2-1/2	63	2-3/8	60
-48	–	–	3	76





## Temperature



When specifying hose, there are two temperatures you need to identify. One is the **ambient temperature**, which is the temperature that exists outside the hose where it is being used; the other is the **media temperature**, which is the temperature of the media conveyed through the hose.

Very high or low ambient temperatures can have adverse effects on the hose cover and reinforcement materials, resulting in reduced service life.

Media temperatures can have a much greater impact on hose life. For example, rubber loses flexibility if operated at high temperatures for extended periods.



Parker hoses carry different temperature ratings for different fluids. For example, 811HT hose has a temperature range of -40°F to +257°F (-40°C to +125°C) for petroleum-based hydraulic fluids. However for water, water/glycol, and water/oil emulsion hydraulic fluids, the range drops to a rating of up to +185°F (+85°C). Air is rated even lower at up to 158°F (+70°C).

Some media can increase or decrease the effects of temperature on the hose. The maximum rated temperature of a hose is specific to the media. See the Minimum/Maximum Temperature Chart in Section E for a full listing of all temperature ratings.



Parker offers a wide range of special types of hoses for low and high temperatures. See pages A-6 to A-7 Hose Overview.



## Application

Before selecting a hose, it is important to consider how the hose assembly will be used. Answering the following questions may help:

- **What type of equipment is involved?**
- **What are the environmental factors?**
- **Are mechanical loads applied to the assembly?**
- **Will the routing be confined?**
- **What about hose fittings – permanent or field attachable?**
- **Will the assembly be subjected to abrasion?**

Sometimes specific applications require specific hoses. For example, applications where hoses will encounter rubbing or abrasive surfaces, would be best handled by our family of abrasion-resistant hose with both Tough and Super Tough covers.

When application space is tight, bend radius is another important consideration. Parker offers a full line of hoses designed for one-half SAE bend radius at full SAE-rated pressures. We offer hoses with increased flexibility and smaller outer diameters enabling faster, easier routing in small spaces, reducing both hose length and inventory requirements.

Industry standards set specific requirements concerning construction type, size, tolerances, burst pressure, and impulse cycles of hoses. Parker hydraulic hoses meet or exceed standards such as:

- **SAE (Society of Automotive Engineers)**
- **EN (European Norm)**
- **DIN (Deutsches Institut für Normung)**
- **ISO (International Organization for Standardization)**

### Hose Hint

*When considering the bend radius of a hose assembly, a minimum straight length of twice the hose's outside diameter should be allowed between the hose fitting and the point at which the bend starts.*





Governmental agencies control additional standards for particular industries such as U.S.C.G. and ABS. You must select a hose that meets the legal requirements as well as the functional requirements of the application.

### Hose Hint

*A hose assembly should be routed so that the hose is not stretched, compressed, or kinked to assure maximum service life and safety.*

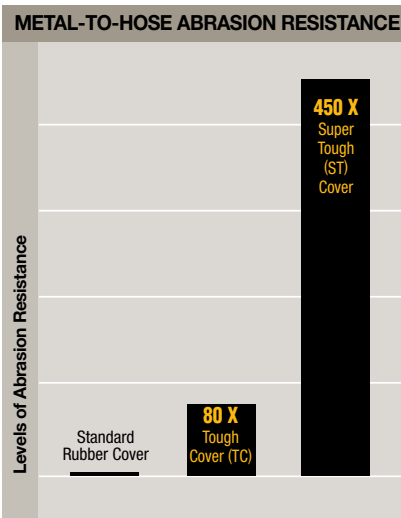


### Compact Spiral™ Bend Radius

Not only is it **1/2 the bend radius**, but it takes **1/3 less effort** to bend.

SAE 100R15

21"



Results from the ISO 6945 metal-to-hose abrasion test show that Tough Cover and Super Tough cover hoses offer significantly greater abrasion resistance than standard rubber cover hose.





## Pressure

When considering hose pressure, it's important to know both the system working pressure and any surge pressures and spikes.

Hose selection must be made so that the published maximum 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.

Each Parker hose has a pressure rating which can be found on the Hose Overview Chart on page A-6, to A-7 and in Section E.

All Parker hydraulic hoses have passed the industry rated specifications for burst pressure and carry a 4:1 design factor unless otherwise noted. Burst pressure ratings for hose are for manufacturing test purposes only. They are not an indication that the product can be used above the published maximum working pressure. It is for this reason that the burst pressure ratings have been removed from the hose charts within the catalog.

Care must also be taken when looking at the "weakest link" of the hose assembly. A hose assembly is rated at the maximum working pressure of the hose and the fitting component. Therefore the maximum working pressure of the hose assembly is the lesser of the rated



To mix and match components is to increase the risk of hose failure – a dangerous situation regardless of setting or application.

working pressure of the hose and the end connections used.

*Here is an example:* An F471TC0101040404-60" hose assembly (which consists of 471TC-4 hose and two 10143-4-4 fittings) would have a maximum working pressure of the lesser of the three components. In this case the fittings have a 12,000 psi rating. The hose has a 5,800 psi rating. Therefore the maximum pressure rating of the hose assembly would be 5,800 psi. Pressure ratings for each Parker end connection can be found on the Pressure Rating of Hose End Connections – PSI Chart in Section E.

Pressure spikes can occur during machine operation in an instant. They can occur so quickly in fact, that standard glycerin filled gages will never detect them. Using a pressure diagnostic system like Parker's Senso Control can help detect how often and how drastic these pressure spikes are. Contact your Parker representative today.

Hose Overview page A-6 to A-7.

Pressure Rating of Hose End Connections page E-43.





# Hose basics

## Everything you need to know.

### Hose Hint

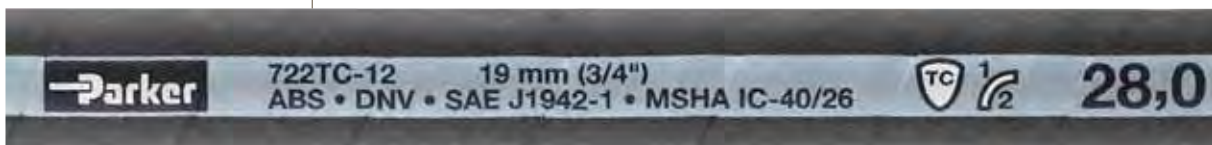
*Use the layline of the hose as a visual index when routing and tightening the assembly to ensure the hose is not twisted or kinked.*

### It's all in the family

At Parker, we believe the best hose for your operation is the one that gets the job done right — no more, no less. That's why we offer you a comprehensive line of hoses, as well as all the options that go with it. Worried about price?

### Abrasion? We've got you covered

Our expanded line of abrasion-resistant hose offers you a world of protection, not to mention a choice of covers: Tough Cover (TC) for tough environments; and SuperTough (ST) for the really rough stuff.





We've got rubber hoses that are an exceptional value. Need hose that can take the heat? We've designed hoses for that. Looking for hose to handle the most demanding conditions? No problem. We have hoses made specifically for high temperatures, tight bending, abrasive environments, and more.

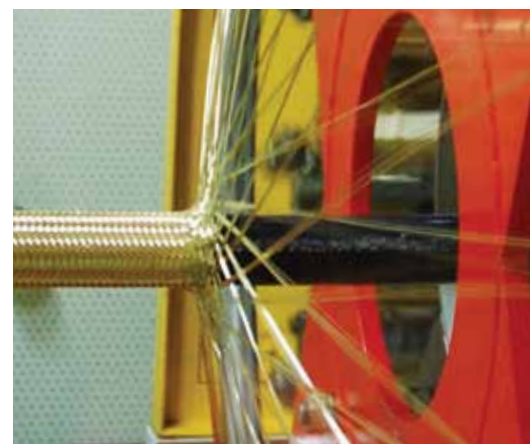
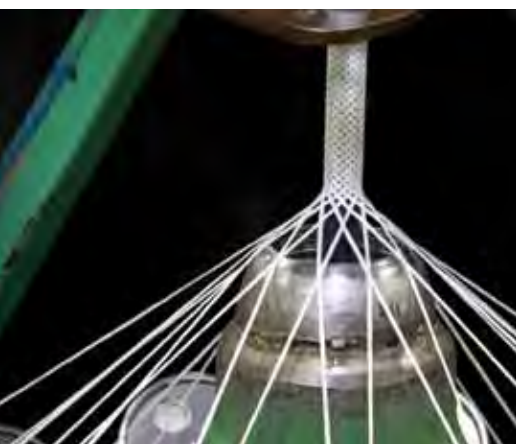
Not sure what hose you need? Talk to our experts. They're trained to know, and they're happy to help.

Our TC- and ST-covered hoses can simplify your assemblies by eliminating the need for any additional protective sleeving.

From the superior flexibility and tighter bend radius of our wire-braided hoses... to the wide fluid compatibility and high pressure performance of our No-Skive spiral hoses... our expanded family of abrasion-resistant hoses gets the job done right, giving you the results you need in the construction, forestry, mining, injection molding, refuse and recycling, and energy industries.

Metal-to-Hose Abrasion Resistance Comparison		
Levels of Abrasion Resistance	Results from the ISO 6945 metal-to-hose abrasion test show that Tough Cover and Super Tough cover hoses offer significantly greater abrasion resistance than standard rubber cover hose.	<b>450 X</b> Super Tough (ST) Cover
	Standard Rubber Cover	<b>80 X</b> Tough Cover (TC)

Optional Covers	
Type	Features
Tough Cover (TC) 	Very good abrasion resistance. Fair resistance to ozone and cold flexibility.
Super Tough (ST) 	Excellent abrasion resistance. Very good resistance to ozone and cold flexibility.



## Braided vs. spiral hose

Hydraulic hose can be referred to by construction style, of which there are two main types: braided and spiral. The majority of “low-pressure hoses” have a textile braided construction. They’re commonly used to transmit petroleum-based fluids, diesel fuel, hot lubricating oil, air, ethylene glycol anti-freeze, and water.

“Medium-pressure hoses” typically feature one- and two-wire braided construction. These hoses are frequently found on construction equipment, heavy-duty trucks, and fleet vehicle applications. In general, braided hose is selected for its flexibility.

At one time in the industry, two-wire braided hose was most commonly used in many applications. But the advent of larger, off-road specialty equipment drove the creation of spiral hose, which is very well suited for applications where extremely high impulse pressure is encountered.

Today, hydrostatic drives using four and six-wire spiral hoses can be found on everything from lawn tractors to earth movers. Because today’s world demands faster, more powerful equipment requiring increased working pressures, Parker is responding with an expansive offering of spiral products.



Contact your local Parker distributor to see the full range of hose choices, and to discuss their various applications.

# Inner beauty

The inner tube of a hose is offered in several different rubber compounds. Each rubber compound can react differently to the media being conveyed. The inner tube must also resist effects of high or low temperatures and environmental elements. The table on the right highlights popular rubber compounds used for hose inner tubes:

Inner Tube Compounds	
Type	Features
PKR® Rubber	Excellent resistance to ozone and weathering; good heat resistance. Good resistance to petroleum-based fluids.
Synthetic Rubber	Excellent resistance to petroleum-based fluids and environmentally friendly fluids.
Butyl Rubber	Very good weathering resistance. Good physical properties. Poor resistance to petroleum-based fluids.
EPDM Rubber	Excellent resistance to phosphate ester fluids and dry air. Poor resistance to petroleum-based fluids.

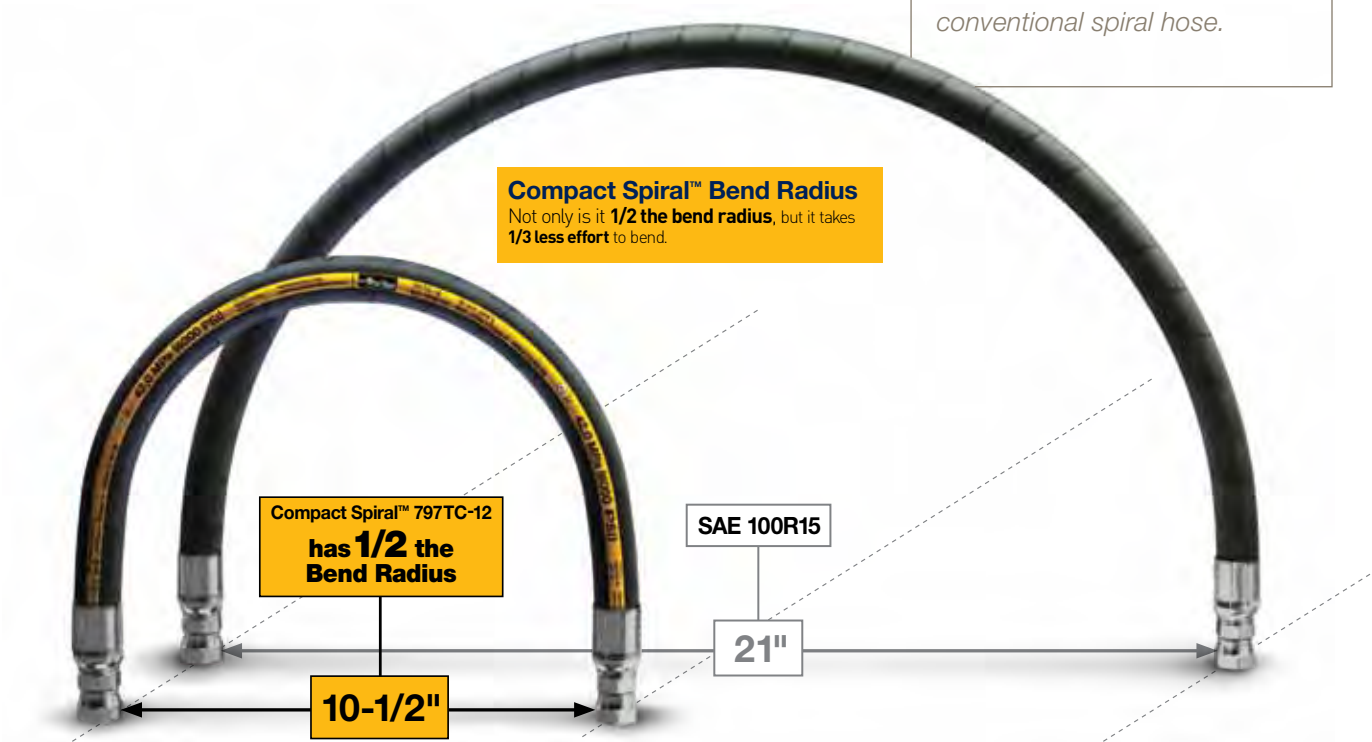
# Strong like spiral bends like braided

Looking for flexible hose that can be routed in tight spaces?

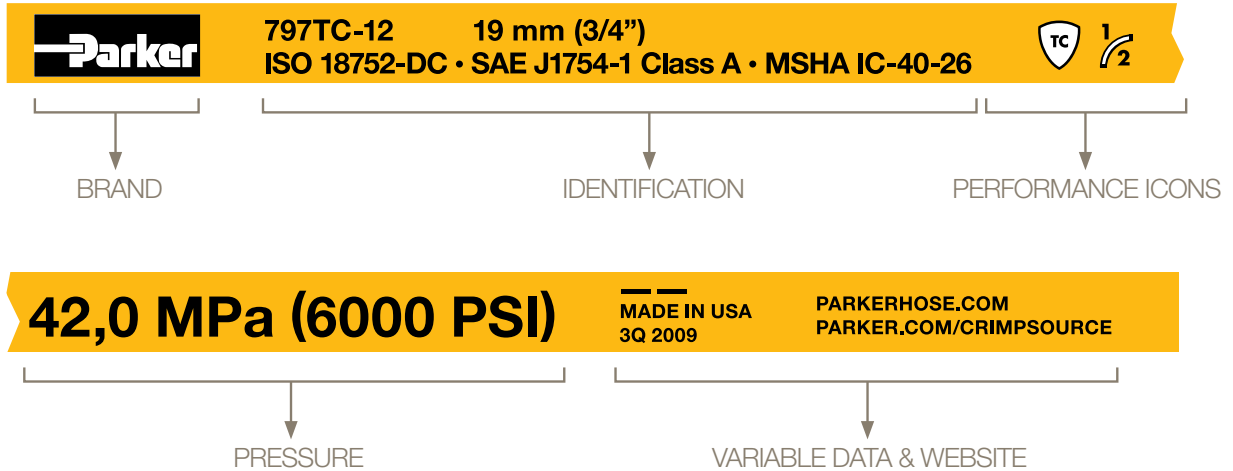
Parker has a full line of hoses designed for one-half SAE bend radius at full SAE pressure. These hoses plumb and bend tighter than other SAE 100R1, 100R2,

100R4, 100R12 and 100R13 type hoses, reducing hose length requirements by up to 47%. The tighter bend radius means fewer bent tube fittings, and longer life in applications where machinery movement causes hoses to bend sharply. It also means reduced inventory requirements for you.

*Compact Spiral Hose has half the bend radius of its SAE counterpart and a significantly smaller bend radius than corresponding-size Parker conventional spiral hose.*







## Our layline is easier to read

Our new layline presents the most important information in an easier to read format. And the performance icons make it easier to identify what elements pertain to that hose.

The layline, or printing along the length of a hose, contains a wealth of useful information about that product. Inside diameter, maximum working pressure, part number, industry standards that the hose meets, and even manufacturing date are among the information supplied.

### PERFORMANCE LEGEND



Half SAE Bend



Tough Cover



SuperTough Cover



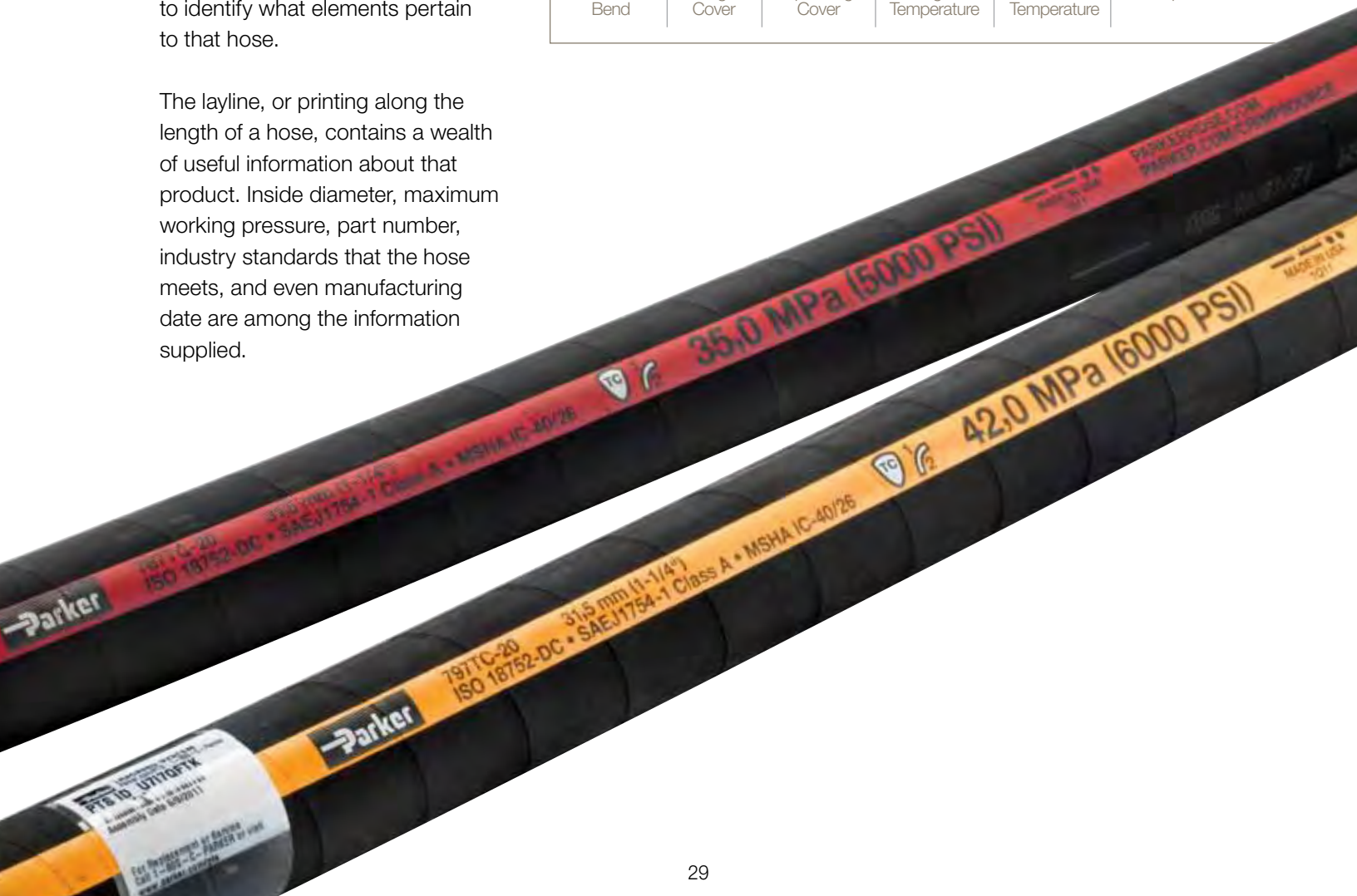
High Temperature



Low Temperature



Compact





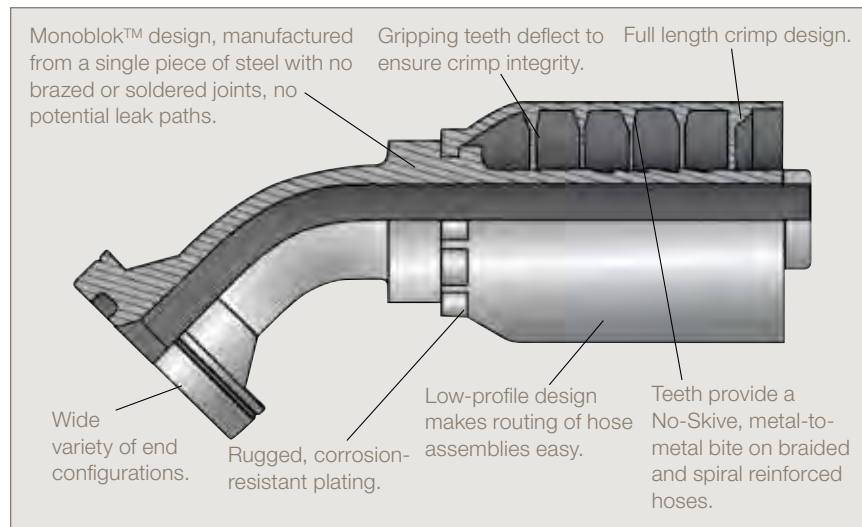
# Parker Fittings. The products of choice for custom and standard applications.



## Crimpable fittings

Parker Parkrimp assemblies consist of No-Skive hose and fittings, permanently joined by any one of our Parkrimp crimpers. The teeth in Parker's crimped fittings bite down to the hose wire for a metal-to-metal grip with maximum integrity. Our one-piece fittings can be combined with many No-Skive hose types to cover low-, medium- and high-pressure applications, as well as special application categories that can also be used with permanent crimped fittings.

We offer steel, brass, and stainless steel fittings from 3/16" to 3", with our steel fittings featuring a corrosion-resistant plating that exceeds SAE standards. Styles include o-ring face seal, flare, male pipe, metric designs and many more. All are compatible with the easy-to-use Parkrimp system of crimping machines.



When combined with our No-Skive hose, Parker Parkrimp fittings provide factory-quality hose assemblies quickly and cost effectively.

## Monoblok™ fittings

Monoblok™ fittings are manufactured from a single piece of steel. First introduced in ultra-high-pressure hydraulic applications, their lack of brazed or

soldered joints provides the utmost in leak protection, eliminating any potential leak paths. Parker Monoblok fittings are available in a wide variety of end configurations and fitting series. These fittings also feature: No-Skive, bite-the-wire, full-length crimp, corrosion-resistant plating, weather seal, and a low-profile design.



## Metric fittings

Parker's metric fittings are available in a full range of DIN, BSP, BSPP, French GAZ, and JIS configurations to meet worldwide applications. Parker's metric fittings are available in a wide range of sizes to meet your requirements.

## Field attachable fittings

Parker field attachable fittings enable you to make hose assemblies right at the job site without special tools or machines.

Our wide range of No-Skive hose – hose that does not require the removal of the outer cover or inner tube prior to assembly – combines with a variety of field attachable steel, stainless steel, and brass fittings quickly and easily.

Parker field attachable fittings include the popular Push-Lok® style, as well as two- and three-piece series fittings that use an interchangeable nipple with one- and two-wire braided hose.

## Custom fittings for short-run or special applications

Custom tube and hose fittings are available from Parker. Configurations include NPTF, JIC, SAE, GAZ, ISO, DIN, JIS,

and BSP in a wide range of sizes. Material options include steel, stainless steel, brass, aluminum, and Monel®. All of our products are manufactured to world-class standards.

### Hose Hint

*How tight is tight enough? Differences in platings and other variables can affect the amount of torque required to ensure a proper connection. Always refer to this catalog or go to [www.parkerhose.com](http://www.parkerhose.com) for proper assembly procedures.*

Hose End Type	Pressure	Seal Reliability	Vibration Resistance	Ease of Installation	Reusability	Temperature
Seal-Lok – O-Ring Face Seal	Excellent	Excellent	Very Good	Excellent	Excellent	Limited by Seal
37° Flare	Very Good	Good	Good	Good	Good	Excellent
Tapered – (NPT, NPTF, BSPT and Metric Taper)	Good*	Poor	Poor	Good	Poor	Excellent
Four-Bolt Flange	Excellent	Good	Excellent	Very Good	Excellent	Limited by Seal

*\*Rated 'Poor' for dynamic pressure systems.*

### Hose Hint

*Never mix and match one manufacturer's fittings with hose from another manufacturer. Parker hose, fittings, and crimpers are designed to work together as a system. This ensures optimum product performance, reliability, and safety.*



## Fittings with XTR coating for extreme resistance to corrosion

Parker XTR coating provides more than seven times SAE standard protection. An outstanding advantage for equipment in highly caustic applications and environments, Parker's proprietary formulation has been tested to resist corroding for more than

720 hours. Parker products with XTR coating assure all the leak-free performance and installation advantages that our customers expect. Even the assembly torque remains the same. For unmatched quality, service and support, now with extreme corrosion resistance, specify Parker hose and tube fitting products with XTR coating. For additional information, refer to Bulletin 4480-B158.

# Parkrimp Crimpers.

Easy to use for safe and reliable high performance hose assemblies



With Parkrimp, you benefit from a full-length crimp. Our low-profile design makes routing hose assemblies easy. No-Skive hoses and fittings combine with the Parkrimp system to create high-quality, reliable hydraulic hose assemblies every time.

**The complete system from one source:** No-Skive hose, No-Skive fittings, and crimping machines with worldwide availability and service.

## Parker's Parkrimp system provides users with several key advantages:

- **Perfect alignment:** Parker's exclusive Parkalign™ system features a positive-stop design that positions the fitting in the die for a perfect crimp every time. Parkalign benefits operators by enabling them to "feel" that the hose is in the right position to be crimped, as compared to "eyeballing" the proper position of the fitting in a variable crimper.
- **Efficient design:** Bottomloading Parkrimp crimpers make it much easier for operators to manage long hose assemblies.
- **Linked dies:** Parkrimp dies are linked together to prevent segments from being misplaced or worse, mismatched.
- **Color-coded dies:** Parkrimp dies are color coded by size, making for easy identification and reduced set-up time.
- **Durability:** Since they were introduced in 1980, Parkrimp crimpers have been designed and manufactured to provide years of reliable service.
- **Decals:** Parkrimp crimpers come with an information-rich decal that provides the list of proper hose and fitting combinations, tools required and the crimp specification for each hose and fitting combination.
- **Crimpsource:** the most complete online resource for Parker crimp specifications, technical manuals, decals and more.

Parker Hose Product Division also offers a full line of crimping accessories, including conversion kits, cabinets, cut-off saws, push-on tables, die racks, and mandrel tool kits. See the Equipment section for full details.

## Modular design with all the familiar Parkrimp system advantages

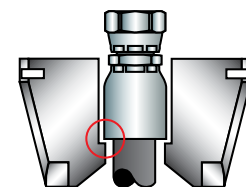
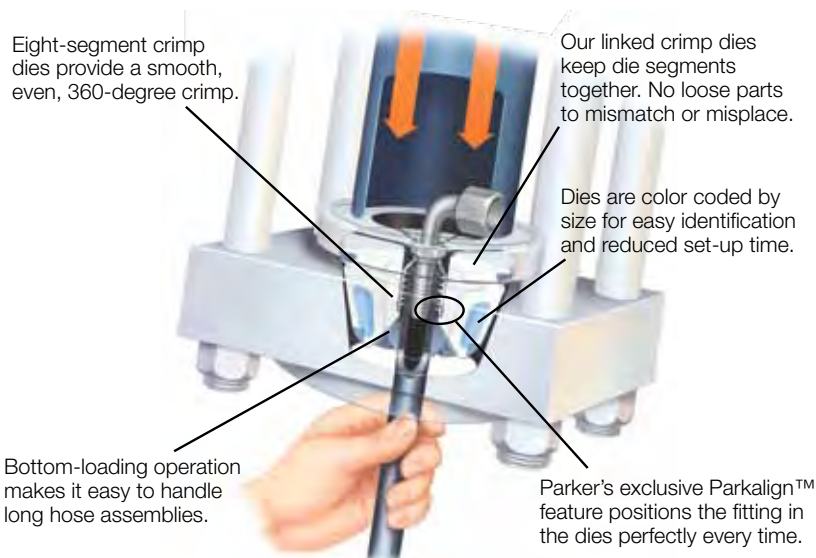
Parker offers two Parkrimp-style modular crimpers – the Karrykrimp and the Karrykrimp 2. Their modular design enables the customer to choose between the portability that Parker Karrykrimp crimpers have always offered and the new option to make these same crimpers bench-mounted units.

The modular design gives users the flexibility of a portable crimper with the advantage of increased productivity when connected to the stationary power unit.

## Modular Crimper – Portable or Bench-Mounted







Downloadable decals are just one of the many assets found on Crimpsource.

### The modular crimper features:

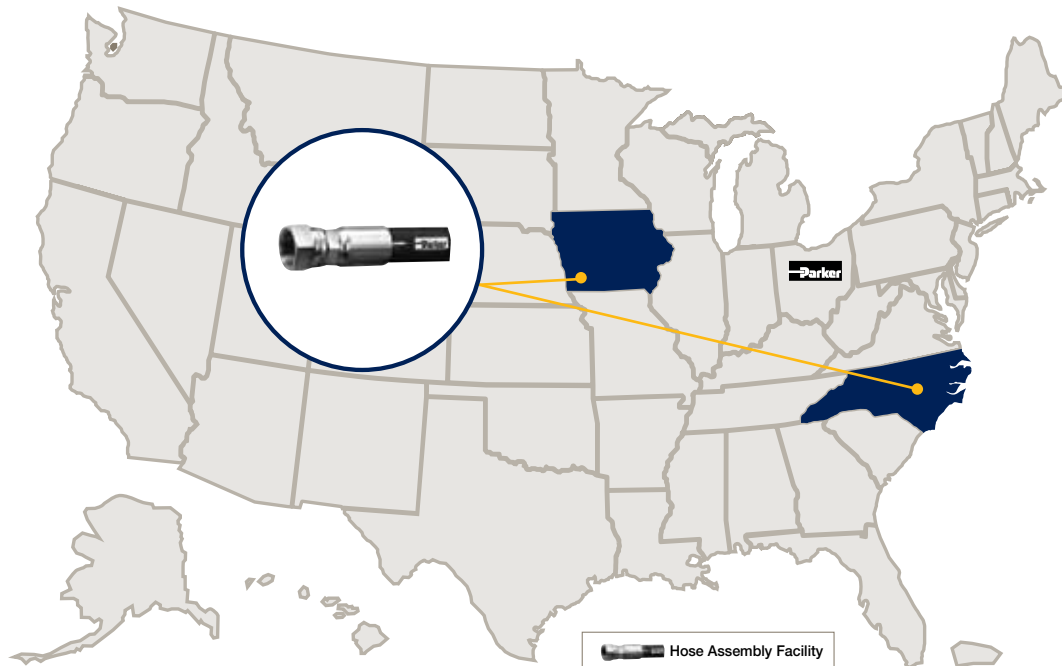
- A single crimping unit can be either portable or bench-mounted
- Faster cycle times on bench-mounted units
- Increased height enables longer bent tube fittings to be crimped
- Cylinder maintenance on the Karrykrimp 2 is now possible

Parker's Parkrimp® System continues to lead the industry in ease of use, accuracy and effectiveness. The Parkrimp system is designed to crimp fittings to the proper diameter every time, meaning fluid power professionals will not waste valuable time dialing variable settings that can produce mis-crimps. Designed to produce accurate crimps from the first time it's used, Parkrimp system crimpers require no calibration and continuously produce proper crimps, time after time.

P/N: PK2 HOSE DECAL 4/11 Rev. 1	Die Selection and Crimp Dimensions												P/N: PK2 MASTER DECAL 4/11 Rev. 1	
	4 RED	5 BLUE	6 YELLOW	7 GREEN	8 ORANGE	9 BLACK	10 WHITE	11 RED	12 GREEN	13 BLUE	14 WHITE	15 RED	16 GREEN	17 BLUE
Die	80C-A04	80C-A05	80C-A06	80C-A07	80C-A08	80C-A09	80C-A10	80C-A11	80C-A12	80C-A13	80C-A14	80C-A15	80C-A16	80C-A17
Die	80C-A18	80C-A19	80C-A20	80C-A21	80C-A22	80C-A23	80C-A24	80C-A25	80C-A26	80C-A27	80C-A28	80C-A29	80C-A30	80C-A31
Die	80C-A32	80C-A33	80C-A34	80C-A35	80C-A36	80C-A37	80C-A38	80C-A39	80C-A40	80C-A41	80C-A42	80C-A43	80C-A44	80C-A45
Die	80C-A46	80C-A47	80C-A48	80C-A49	80C-A50	80C-A51	80C-A52	80C-A53	80C-A54	80C-A55	80C-A56	80C-A57	80C-A58	80C-A59
Die	80C-A60	80C-A61	80C-A62	80C-A63	80C-A64	80C-A65	80C-A66	80C-A67	80C-A68	80C-A69	80C-A70	80C-A71	80C-A72	80C-A73
Die	80C-A74	80C-A75	80C-A76	80C-A77	80C-A78	80C-A79	80C-A80	80C-A81	80C-A82	80C-A83	80C-A84	80C-A85	80C-A86	80C-A87
Die	80C-A88	80C-A89	80C-A90	80C-A91	80C-A92	80C-A93	80C-A94	80C-A95	80C-A96	80C-A97	80C-A98	80C-A99	80C-A100	80C-A101
Die	80C-A102	80C-A103	80C-A104	80C-A105	80C-A106	80C-A107	80C-A108	80C-A109	80C-A110	80C-A111	80C-A112	80C-A113	80C-A114	80C-A115
Die	80C-A116	80C-A117	80C-A118	80C-A119	80C-A120	80C-A121	80C-A122	80C-A123	80C-A124	80C-A125	80C-A126	80C-A127	80C-A128	80C-A129
Die	80C-A130	80C-A131	80C-A132	80C-A133	80C-A134	80C-A135	80C-A136	80C-A137	80C-A138	80C-A139	80C-A140	80C-A141	80C-A142	80C-A143
Die	80C-A144	80C-A145	80C-A146	80C-A147	80C-A148	80C-A149	80C-A150	80C-A151	80C-A152	80C-A153	80C-A154	80C-A155	80C-A156	80C-A157
Die	80C-A158	80C-A159	80C-A160	80C-A161	80C-A162	80C-A163	80C-A164	80C-A165	80C-A166	80C-A167	80C-A168	80C-A169	80C-A170	80C-A171
Die	80C-A172	80C-A173	80C-A174	80C-A175	80C-A176	80C-A177	80C-A178	80C-A179	80C-A180	80C-A181	80C-A182	80C-A183	80C-A184	80C-A185
Die	80C-A186	80C-A187	80C-A188	80C-A189	80C-A190	80C-A191	80C-A192	80C-A193	80C-A194	80C-A195	80C-A196	80C-A197	80C-A198	80C-A199
Die	80C-A200	80C-A201	80C-A202	80C-A203	80C-A204	80C-A205	80C-A206	80C-A207	80C-A208	80C-A209	80C-A210	80C-A211	80C-A212	80C-A213
Die	80C-A214	80C-A215	80C-A216	80C-A217	80C-A218	80C-A219	80C-A220	80C-A221	80C-A222	80C-A223	80C-A224	80C-A225	80C-A226	80C-A227
Die	80C-A228	80C-A229	80C-A230	80C-A231	80C-A232	80C-A233	80C-A234	80C-A235	80C-A236	80C-A237	80C-A238	80C-A239	80C-A240	80C-A241
Die	80C-A242	80C-A243	80C-A244	80C-A245	80C-A246	80C-A247	80C-A248	80C-A249	80C-A250	80C-A251	80C-A252	80C-A253	80C-A254	80C-A255
Die	80C-A256	80C-A257	80C-A258	80C-A259	80C-A260	80C-A261	80C-A262	80C-A263	80C-A264	80C-A265	80C-A266	80C-A267	80C-A268	80C-A269
Die	80C-A270	80C-A271	80C-A272	80C-A273	80C-A274	80C-A275	80C-A276	80C-A277	80C-A278	80C-A279	80C-A280	80C-A281	80C-A282	80C-A283
Die	80C-A284	80C-A285	80C-A286	80C-A287	80C-A288	80C-A289	80C-A290	80C-A291	80C-A292	80C-A293	80C-A294	80C-A295	80C-A296	80C-A297
Die	80C-A298	80C-A299	80C-A300	80C-A301	80C-A302	80C-A303	80C-A304	80C-A305	80C-A306	80C-A307	80C-A308	80C-A309	80C-A310	80C-A311
Die	80C-A312	80C-A313	80C-A314	80C-A315	80C-A316	80C-A317	80C-A318	80C-A319	80C-A320	80C-A321	80C-A322	80C-A323	80C-A324	80C-A325
Die	80C-A326	80C-A327	80C-A328	80C-A329	80C-A330	80C-A331	80C-A332	80C-A333	80C-A334	80C-A335	80C-A336	80C-A337	80C-A338	80C-A339
Die	80C-A340	80C-A341	80C-A342	80C-A343	80C-A344	80C-A345	80C-A346	80C-A347	80C-A348	80C-A349	80C-A350	80C-A351	80C-A352	80C-A353
Die	80C-A354	80C-A355	80C-A356	80C-A357	80C-A358	80C-A359	80C-A360	80C-A361	80C-A362	80C-A363	80C-A364	80C-A365	80C-A366	80C-A367
Die	80C-A368	80C-A369	80C-A370	80C-A371	80C-A372	80C-A373	80C-A374	80C-A375	80C-A376	80C-A377	80C-A378	80C-A379	80C-A380	80C-A381
Die	80C-A382	80C-A383	80C-A384	80C-A385	80C-A386	80C-A387	80C-A388	80C-A389	80C-A390	80C-A391	80C-A392	80C-A393	80C-A394	80C-A395
Die	80C-A396	80C-A397	80C-A398	80C-A399	80C-A400	80C-A401	80C-A402	80C-A403	80C-A404	80C-A405	80C-A406	80C-A407	80C-A408	80C-A409
Die	80C-A410	80C-A411	80C-A412	80C-A413	80C-A414	80C-A415	80C-A416	80C-A417	80C-A418	80C-A419	80C-A420	80C-A421	80C-A422	80C-A423
Die	80C-A424	80C-A425	80C-A426	80C-A427	80C-A428	80C-A429	80C-A430	80C-A431	80C-A432	80C-A433	80C-A434	80C-A435	80C-A436	80C-A437
Die	80C-A438	80C-A439	80C-A440	80C-A441	80C-A442	80C-A443	80C-A444	80C-A445	80C-A446	80C-A447	80C-A448	80C-A449	80C-A450	80C-A451
Die	80C-A452	80C-A453	80C-A454	80C-A455	80C-A456	80C-A457	80C-A458	80C-A459	80C-A460	80C-A461	80C-A462	80C-A463	80C-A464	80C-A465
Die	80C-A466	80C-A467	80C-A468	80C-A469	80C-A470	80C-A471	80C-A472	80C-A473	80C-A474	80C-A475	80C-A476	80C-A477	80C-A478	80C-A479
Die	80C-A480	80C-A481	80C-A482	80C-A483	80C-A484	80C-A485	80C-A486	80C-A487	80C-A488	80C-A489	80C-A490	80C-A491	80C-A492	80C-A493
Die	80C-A494	80C-A495	80C-A496	80C-A497	80C-A498	80C-A499	80C-A500	80C-A501	80C-A502	80C-A503	80C-A504	80C-A505	80C-A506	80C-A507
Die	80C-A508	80C-A509	80C-A510	80C-A511	80C-A512	80C-A513	80C-A514	80C-A515	80C-A516	80C-A517	80C-A518	80C-A519	80C-A520	80C-A521
Die	80C-A522	80C-A523	80C-A524	80C-A525	80C-A526	80C-A527	80C-A528	80C-A529	80C-A530	80C-A531	80C-A532	80C-A533	80C-A534	80C-A535
Die	80C-A536	80C-A537	80C-A538	80C-A539	80C-A540	80C-A541	80C-A542	80C-A543	80C-A544	80C-A545	80C-A546	80C-A547	80C-A548	80C-A549
Die	80C-A550	80C-A551	80C-A552	80C-A553	80C-A554	80C-A555	80C-A556	80C-A557	80C-A558	80C-A559	80C-A560	80C-A561	80C-A562	80C-A563
Die	80C-A564	80C-A565	80C-A566	80C-A567	80C-A568	80C-A569	80C-A570	80C-A571	80C-A572	80C-A573	80C-A574	80C-A575	80C-A576	80C-A577
Die	80C-A578	80C-A579	80C-A580	80C-A581	80C-A582	80C-A583	80C-A584	80C-A585	80C-A586	80C-A587	80C-A588	80C-A589	80C-A590	80C-A591
Die	80C-A592	80C-A593	80C-A594	80C-A595	80C-A596	80C-A597	80C-A598	80C-A599	80C-A600	80C-A601	80C-A602	80C-A603	80C-A604	80C-A605
Die	80C-A606	80C-A607	80C-A608	80C-A609	80C-A610	80C-A611	80C-A612	80C-A613	80C-A614	80C-A615	80C-A616	80C-A617	80C-A618	80C-A619
Die	80C-A620	80C-A621	80C-A622	80C-A623	80C-A624	80C-A625	80C-A626	80C-A627	80C-A628	80C-A629	80C-A630	80C-A631	80C-A632	80C-A633
Die	80C-A634	80C-A635	80C-A636	80C-A637	80C-A638	80C-A639	80C-A640	80C-A641	80C-A642	80C-A643	80C-A644	80C-A645	80C-A646	80C-A647
Die	80C-A648	80C-A649	80C-A650	80C-A651	80C-A652	80C-A653	80C-A654	80C-A655	80C-A656	80C-A657	80C-A658	80C-A659	80C-A660	80C-A661
Die	80C-A662	80C-A663	80C-A664	80C-A665	80C-A666	80C-A667	80C-A668	80C-A669	80C-A670	80C-A671	80C-A672	80C-A673	80C-A674	80C-A675
Die	80C-A676	80C-A677	80C-A678	80C-A679	80C-A680	80C-A681	80C-A682	80C-A683	80C-A684	80C-A685	80C-A686	80C-A687	80C-A688	80C-A689
Die	80C-A690	80C-A691	80C-A692	80C-A693	80C-A694	80C-A695	80C-A696	80C-A697	80C-A698	80C-A699	80C-A700	80C-A701	80C-A702	80C-A703
Die	80C-A704	80C-A705	80C-A706	80C-A707	80C-A708	80C-A709	80C-A710	80C-A711	80C-A712	80C-A713	80C-A714	80C-A715	80C-A716	80C-A717
Die	80C-A718	80C-A719	80C-A720	80C-A721	80C-A722	80C-A723	80C-A724	80C-A725	80C-A726	80C-A727	80C-A728	80C-A729	80C-A730	80C-A731
Die	80C-A732	80C-A733	80C-A734	80C-A735	80C-A736	80C-A737	80C-A738	80C-A739	80C-A740	80C-A741	80C-A742	80C-A743	80C-A744	80C-A745
Die	80C-A746	80C-A747	80C-A748	80C-A749	80C-A750	80C-A751	80C-A752	80C-A753	80C-A754	80C-A755	80C-A756	80C-A757	80C-A758	80C-A759
Die	80C-A760	80C-A761	80C-A762	80C-A763	80C-A764	80C-A765	80C-A766	80C-A767	80C-A768	80C-A769	80C-A770	80C-A771	80C-A772	80C-A773
Die	80C-A774	80C-A775	80C-A776	80C-A777	80C-A778	80C-A779	80C-A780	80C-A781	80C-A782	80C-A783	80C-A784	80C-A785	80C-A786	80C-A787
Die	80C-A788	80C-A789	80C-A790	80C-A791	80C-A792	80C-A793	80C-A794	80C-A795	80C-A796	80C-A797	80C-A798	80C-A799	80C-A800	80C-A801
Die	80C-A802	80C-A803	80C-A804	80C-A805	80C-A806	80C-A807	80C-A808	80C-A809	80C-A810	80C-A811	80C-A812	80C-A813	80C-A814	80C-A815
Die	80C-A816	80C-A817	80C-A818	80C-A819	80C-A820	80C-A821	80C-A822	80C-A823	80C-A824	80C-A825	80C-A826	80C-A827	80C-A828	80C-A829
Die	80C-A830	80C-A831	80C-A832	80C-A833	80C-A834	80C-A835	80C-A836	80C-A837	80C-A838	80C-A839	80C-A840	80C-A841	80C-A842	80C-A843
Die	80C-A844	80C-A845	80C-A846	80C-A847	80C-A848	80C-A849	80C-A850	80C-A851	80C-A852	80C-A853	80C-A854	80C-A855	80C-A856	80C-A857
Die	80C-A858	80C-A859	80C-A860	80C-A861	80C-A862	80C-A863	80C-A864	80C-A865	80C-A866	80C-A867	80C-A868	80C-A869	80C-A870	80C-A871
Die	80C-A872	80C-A873	80C-A874	80C-A875	80C-A876	80C-A877	80C-A878	80C-A879	80C-A880	80C-A881	80C-A882	80C-A883	80C-A884	80C-A885
Die	80C-A886	80C-A887	80C-A888	80C-A889	80C-A890	80C-A891	80C-A892	80C-A893	80C-A894	80C-A895	80C-A896</			

# Parker's superior capabilities.

## Your competitive advantages.



### Downloadable CAD drawings

Downloadable CAD drawings of Parker fittings are available at **[www.parkerhose.com](http://www.parkerhose.com)**. You can check the form, fit, and function of the fitting before specifying the actual part.



Online 3D-CAD models help designers work faster, smarter.

### Custom manufacturing capabilities

Markets are shifting to replacing sections of hose with hard plumbing. These custom projects can include tube fabrication and fittings not found anywhere else. Using custom tube and compound assemblies can reduce your overall costs and eliminate warranty issues.

Completely custom products are available from a dedicated Parker Hose Products Division facility. Using standard Parker hoses, fittings and tubing, our experts create custom tube and compound assemblies that exactly match your specifications to provide increased durability and reliability.

Organized to provide fast quotes and highly responsive service,

our Custom Manufacturing department can produce a single critical piece or production quantities to meet your needs, quickly and efficiently. Contact our staff to talk about creating the best in customized, leak-free products. Call **888-882-1202**.

### Dedicated hose assembly plants

All Parker Hose assemblies are manufactured in our own facilities solely dedicated to hose assembly production and premier customer service. Our dedicated hose assembly plants offer our customers unique benefits including:

- **Competitive hose assembly pricing**
- **A more diverse range of hose assembly capabilities and accessory options**

- A larger selection of hose and fitting inventory for assemblies
- The quality assurance that comes with manufacturing in a TS-16949-certified facility

## Custom kits

Want to speed up assembly on the factory floor? Parker custom kits are just what you're looking for. From fittings and adapters to pre-made assemblies, custom kits can hold a wide range of materials, in the exact order and quantities you need.



What's the advantage? Streamlined procedures. Quicker assembly. Lower costs. And a single part number for easier processing. Call your Parker representative today.

Parker experts can create custom tube and compound assemblies that exactly match your specifications.



## Technical support, education and training

Need help? Don't hesitate to ask. Our technicians and market-specific engineers can be found around the country and throughout the world to offer you engineering support, fluid connector system design, and product selection assistance. Phone consultation, as well as on- or off-site sessions are available virtually anywhere for all customers, distributors, and employees. Topics range from hose routing tips and troubleshooting to critical safety procedures. Our Parker experts reflect our extensive commitment to training and education, and are an important part of our value-added services.

Want some help? Call **1-800-C-PARKER**, or check with your local distributor. Don't know who that is? Go to **www.parker.com** then click on "where to buy" on the home page to find out.



### Parker Training and Certification (P-TAC)

P-TAC encompasses online (e-learning) and off-line (instructor-led classroom) training in addition to certification recognition.

**Parker.com/PTAC**





## NOTES



Constant Working Pressure  
Hydraulic – Industry Standard  
Suction and Return  
Push-Lok®  
Phosphate Ester  
Low Temperature  
Transportation  
Alternative/Marine Fuel  
Refrigerant

# Hose

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ENGINEERING YOUR SUCCESS.

# Hose visual index

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	<div> <div>722TCA-15</div>  <div>Tough Cover - SAE 100R12</div> </div>	<div> <div>351TCA-13</div>  <div>Tough Cover 4,000 psi Constant W.P.</div> </div>	<div> <div>351STA-13</div>  <div>Super Tough 4,000 psi Constant W.P.</div> </div>	<div> <div>722TCA-14</div>  <div>Tough Cover 4,000 psi Constant W.P.</div> </div>
	<div> <div>721STA-17</div>  <div>Super Tough - SAE 100R12</div> </div>	<div> <div>787TCA-18</div>  <div>Compact Spiral™ Hose</div> </div>	<div> <div>781A-20</div>  <div>SAE 100R13</div> </div>	<div> <div>721TCA-16</div>  <div>Extreme Tough Cover SAE 100R12</div> </div>
	<div> <div>782TCA-21</div>  <div>Tough Cover SAE 100R13</div> </div>	<div> <div>782STA-21</div>  <div>Super Tough SAE 100R13</div> </div>	<div> <div>797TCA-22</div>  <div>Compact Spiral™ Hose</div> </div>	<div> <div>791TCA-24</div>  <div>Extreme Tough Cover SAE 100R15</div> </div>
	<div> <div>792TCA-24</div>  <div>Tough Cover - SAE 100R15</div> </div>	<div> <div>761A-25</div>  <div>ParMax - 8,000 psi</div> </div>		
	<div> <div>482STA-27</div>  <div>Super Tough SAE 100R1 TYPE AT</div> </div>	<div> <div>426A-28</div>  <div>High-Temperature SAE 100R1 TYPE AT</div> </div>	<div> <div>422A-26</div>  <div>Worldwide ISO 1436-1 TYPE 1SN</div> </div>	<div> <div>482TCA-27</div>  <div>Tough Cover SAE 100R1 TYPE AT</div> </div>
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## Hose visual index

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	271  Air Brake Hose SAE J1402 A	A-50				
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	285  SAE J2064 TYPE C	A-54	244  SAE J2064 TYPE B	A-55		
Refrigerant Hose						

## How to read the hose section

Parker offers a wide variety of hoses including braided, spiral, multi-purpose, transportation, refrigerant, LP gas and more. Parker's product line has been tested and approved to meet

and exceed global standards. Our hoses range in size from 3/16" to 3" I.D. and are compatible with crimp and field-attachable style fittings. Specific hose information is displayed throughout Catalog 4400

Hose Section. Hose page content is defined by the information shown below. Please take a moment and review.



### Markets



## Catalog Sections

- Hose Section
- Accessories Section
- Fittings Section
- Technical Section
- Equipment Section

## Parker Hose Nomenclature

Example: 451TC-8

**451**TC-8 - Hose Type

451**TC**-8 - Indicates the special feature of the hose (in this case, 'Tough Cover')

451TC-**8** - Hose inside diameter dash size (in this case, 8/16" or 1/2")

### Hose Information

- Base part number
- Description
- SAE, ISO, and EN specifications

### Hose Inner Diameter

Measured in 1/16 inch increments identified by use of a "dash"(-) numbering system. i.e., 4/16" = 1/4" = -4.

### Hose Outer Diameter

A critical measurement when considering hose clamps and applications where envelope size is limited.

### Hose Working Pressure

Should have a working pressure rating meeting or exceeding the maximum operating pressure of the system. The maximum rating is listed below for where the hose is to be used.

Visually shows **hose construction**.

**482TC**  
Hydraulic – Tough Cover  
SAE 100R1 TYPE AT, J1942 / ISO 1436-1 TYPE 1SN / EN853 TYPE 1SN / USCG H

**482ST**  
Hydraulic – Super Tough Cover  
SAE 100R1 TYPE AT / ISO 1436-1 TYPE 1SN / EN853 TYPE 1SN

**Application:** Petroleum base hydraulic fluids and lubricating oils.  
**Inner Tube:** Synthetic rubber.  
**Reinforcement:** One braid steel wire.  
**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.  
**Temperature Range:** -40°F to +212°F (-40°C to +100°C).  
**Fittings:** 43 Series - pg. B-00, 42 Series - pg. B-00.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Fittings	
	Inch	mm	Inch	mm	psi	MPa	Inch	mm	lb/ft	kg/m	43 Series	42 Series
482TC/ST-4	1/4	6,3	0,53	14	3250	22,7	2	50	0,16	0,24	•	•
482TC-5	5/16	8	0,59	15	3250	22,7	2-1/4	55	0,18	0,27	•	•
482TC/ST-6	3/8	10	0,69	17	3000	21,0	2-1/2	65	0,23	0,34	•	•
482TC/ST-8	1/2	12,5	0,82	21	2500	17,5	3-1/2	90	0,29	0,43	•	•
482TC/ST-10	5/8	16	0,94	24	2000	14,0	4	100	0,33	0,49	•	•
482TC/ST-12	3/4	19	1,09	28	1750	12,2	4-3/4	120	0,42	0,63	•	•
482TC/ST-16	1	25	1,41	36	1275	8,8	6	150	0,63	0,94	•	•

• Field Attachable Adapters/Instructions are in Section B with related Tables C and D.  
• See Section C for Fittings Assembly Instructions.  
• Temperature Range of other media listed in Section E.

A-27

For more information regarding hose application and temperature, see the Technical Section.

### Minimum Bend Radius

Is the smallest arc that the hose can be bent before its life is greatly reduced. Exceeding the bend radius can cause kinking, inner tube washout and excessive stress on reinforcement.

### Weight

Provided by the foot for instances where it is a critical parameter in the design of the system.

### Approved Fitting

To be used with the hose. Could be crimped or field attachable.












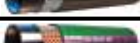

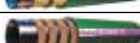



















# Hose overview chart

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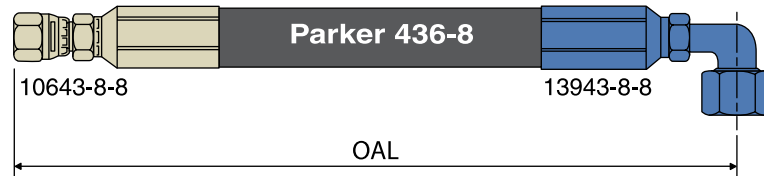
Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	Standard Temp. Range °F	SAE	ISO	EN	Page
Constant Working Pressure	451TC/ST	3000		3000	3000	3000	3000	3000	3000					-40/+212	100R17			A-10
	451TC Twin Tough			3000	3000									-40/+212	100R17	11237-1		A-11
	711									3000	3000			-40/+212				A-12
	351TC/ST	4000		4000	4000	4000	4000							-40/+212	100R19			A-13
	722TC			4000	4000	4000	4000	4000	3000	2500	2500			-40/+257	100R12 J1942	3862-1 Type R12	Type R12	A-14
	772TC/ST			4000	4000	4000	4000	4000	3000	2500	2500			-40/+257	100R12	3862-1-R12	856-R12	A-15
	721/721TC			4000	4000	4000	4000	4000	3000	2500	2500			-40/+257	100R12	3862-1-R12	856-R12	A-16
	721ST				4000	4000	4000	4000	3000					-40/+257	100R12	3862-1-R12	856-R12	A-17
	787TC				5000	5000	5000	5000	5000					-40/+257	100R13	18752-DC		A-18
	781						5000	5000	5000	5000								A-20
	P35										5000			-40/+257	100R13	3862-1-R13	856-R13	A-20
	782TC/ST							5000	5000	5000	5000			-40/+257	100R13	3862-1-R13	856-R13	A-21
	797TC				6000	6000	6000	6000	6000					-40/+257	100R13	18752-DC		A-22
	791TC						6000	6000	6000	6000				-40/+257	100R15	3862-1-R15		A-24
	792TC/ST						6000	6000						-40/+257	100R15	3862-1-R15		A-24
	761						8000	8000						-40/+257				A-25
Hydraulic - Industry Standard	JK	10500		10000										-40/+120				A-25
	422	3250	3125	2600	2325	1875	1525	1275	900	725	575			-40/+212	100R1AT	1436-1-1SN		A-26
	482TC/ST	3250	3250	3000	2500	2000	1750	1275						-40/+212	100R1AT	1436-1-1SN	853-1SN	A-27
	426	2750		2250	2000	1500	1250	1000	625	500	375			-50/+302	100R1AT			A-28
	302	5800	5000	4750	4000	3600	3100	2400	1800	1300	1150			-40/+212	100R2	1436-1-2SN		A-29
	431	5000	4250	4000	3500	2750	2250	2000						-40/+257				A-30
	436			4000	3500	2750	2250	2000						-55/+302				A-31
	471TC/ST	5800		5000	4250	3625	3125	2500						-40/+212		11237-1-2SC	857-2SC	A-32
	471TC Twin Tough			5000	4250									-40/+212		11237-1-2SC	857	A-33
	472TC								2250	1800	1300			-40/+212				A-33
	AX	3000		3000	2500	1500	1250	1000						-40/+212				A-34

## Hose overview chart

	Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	Standard Temp. Range °F	SAE	ISO	EN	Page
Hydraulic	BXX		5000		4000	3500	2750	2250	2000						-40/+212	100R2			A-34
	701				6500	6000	5000								-40/+212		3862-1-4SP	856-4SP	A-35
	731							6000	5500	4700	4200	3600			-40/+212		3862-1-4SH	856-4SH	A-35
Suction and Return Line	811/811HT with HC							100	70	50	50	50	62		-40/+212	100R4			A-36
	811/811HT with 81							300	250	200	150	100	62		-40/+212	100R4			A-37
	881 with HC							100	70	50	50	50	62		-40/+257	100R4			A-37
	881 with 43/81/DB							300	250	200	150	100	62		-40/+257	100R4			A-37
Push-Lok	801		350		350	300	300	300	200						-40/+212				A-38
	836		400		400	400	350	300							-55/+302				A-40
	804		150		150	150	150	150							-40/+176				A-40
	821FR		350		300	300		250							-40/+212				A-41
	821		350		300	300	250	250							-40/+212				A-41
Phosphate Ester	304		5000		4000	3500	2750	2250	2000	1625	1250	1125			-40/+176				A-43
	774							4000	4000	3000	2500	2500			-40/+176				A-43
	424								1000	625	500	375			-40/+176	100R1AT			A-42
	F42					6000		6000	6000	6000					-40/+176				A-43
Low-Temp	301LT		5000		4000	3500	2750	2250	2000						-67/+212	100R2			A-44
	772LT				4000	4000	4000	4000	4000	3000	2500	2500			-70/+212	100R12	3862-1-R12	856-R12	A-45
	792LT								6000	6000	6000				-70/+212				A-45
Transportation	293		500		500	500	450	450	450						-58/+302	J1402 AI			A-46
	213		2000	1500	1500	1250	1000	750	400	300	300	200	175		-50/+302	J1402 AI			A-47
	266		2000	1500	1500	1250	1250	750	400	300	250				-55/+302	J1402 AII			A-47
	201		3000	3000	2250	2000	1750	1500	800	625	500	350	350	200	-40/+302	100R5/ J1402 AII			A-48
	206		3000	3000	2250	2000	1750	1500	800	625	500	350	350		-55/+302	100R5/ J1402 AII			A-48
	611HT		400		400	400	350	300							-55/+302	J517 Type R6		854	A-49
	271				225	225									-50/+212	J1402 A			A-50
Alternative/Marine	SS23CG				425	425	425	425							-40/+250				A-51
	SS25UL		350	350	350	350	350	350							-40/+250				A-52
	221FR			500	500	500	500	500	500						-4/+212	J1527 R3/J1942	7840		A-53
Refrigerant	285		500		500	500	500	500							-22/+257	J2064 Type C			A-54
	244								500	500	350				-22/+257	J2064 Type B Class 1			A-55

# How to order crimped hose assemblies

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11
F	436	06	39	08	08	08		-24		



Box 1: Prefix	
Symbol	Description
F =	Parkrimp Crimp Fittings (i.e., 43 Series)
P =	Parkrimp Crimp Fittings (i.e., 26 Series)
Y =	Permanent Crimp Fittings (i.e., HY Series)
K =	Permanent Crimp Fittings (i.e., 81 Series)

Box 2: Hose Type	
Symbol	Description
436 =	SAE 100R16 Hose
<b>Note:</b> see page A-6 for complete list of Parker Hoses	

Box 3: 1st Fitting End Configuration	
Symbol	Description
06 =	Female JIC 37 Degree Swivel Straight
<b>Note:</b> See page E-30 for a complete list of fitting configurations	

Box 4: 2nd Fitting End Configuration	
Symbol	Description
39 =	Female JIC 37 Degree Swivel 90 Degree Elbow - Short Drop

Box 5: 1st Fitting End Connection Size	
Symbol	Description
08 =	1/2" Female JIC (3/4x16 Thread)

Box 6: 2nd Fitting End Connection Size	
Symbol	Description
08 =	1/2" Female JIC (3/4x16 Thread)

Box 7: Hose Size	
Symbol	Description
08 =	1/2 inch Hose Inner Diameter

Box 8: Fitting Material	
Symbol	Description
No Suffix =	Steel
B =	Brass
C =	316 Stainless Steel
BA =	Brass nipple with steel nut and socket
BS =	Brass nipple with brass nut and steel socket

Box 9: Over All Length (OAL)	
Symbol	Description
24 =	Expressed in inches (610 mm)
OAL of a hose assembly is measured from the end of the straight fitting or centerline of the fitting seat. OAL of the Seal-Lok® hose assembly is measured to the sealing surface of the straight fittings or to the centerline of the elbow fittings	

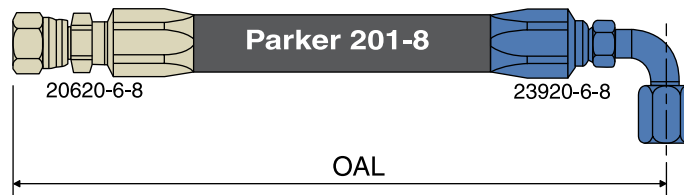
Box 10: Displacement Angle	
Symbol	Description
270	Specified only if two (2) elbow fittings are used. Starting with either end as the far end, measure angle clockwise to describe the displacement angle of the near end

Box 11: Hose Assembly Guards	
Symbol	Description
SG =	Spring Guard
AG =	Armor Guard
HG =	Polyguard
PG =	ParkKoil™
FS =	Fire Sleeve
AS =	Partek Sleeving
PS =	Partek Sleeving
<b>Note:</b> When spelling out an assembly part number, list entire sleeving part number	



# How to order field attachable hose assemblies

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11
R	201	06	39	06	06	08		-24		



Box 1: Prefix	
Symbol	Description
R =	Field Attachable i.e., 20 Series
M =	Mandrel i.e., 22 and 23 Series
B =	Clamp i.e., 88HC-H and 88DB on 88 Series
C =	Worm Gear Clamp i.e., 88H Series on 88 Series

Box 2: Hose Type	
Symbol	Description
201 =	SAE 100R5
<b>Note:</b> See page A-6 for complete list of Parker Hoses	

Box 3: 1st Fitting End Configuration	
Symbol	Description
06 =	Female JIC 37 Degree Swivel - Str.
<b>Note:</b> See page E-30 for a complete list of fitting configurations	

Box 4: 2nd Fitting End Configuration	
Symbol	Description
39 =	JIC 37 Degree Flare Elbow

Box 5: 1st Fitting End Connection Size	
Symbol	Description
06 =	3/8" JIC (9/16x18 Thread)

Box 6: 2nd Fitting End Connection Size	
Symbol	Description
06 =	3/8" JIC (9/16x18 Thread)

Box 7: Hose Size	
Symbol	Description
08 =	13/32 inch Hose Inner Diameter

Box 8: Fitting Material	
Symbol	Description
No Suffix =	Steel
B =	Brass
C =	316 Stainless Steel
BA =	Brass nipple with steel nut and socket
BS =	Brass nipple with brass nut and steel socket

Box 9: Over All Length (OAL)	
Symbol	Description
24 =	Expressed in inches (610 mm)
OAL of a hose assembly is measured from the end of the straight fitting or centerline of the fitting seat. OAL of the Seal-Lok® hose assembly is measured to the sealing surface of the straight fittings or to the centerline of the elbow fittings	

Box 10: Displacement Angle	
Symbol	Description
270	Specified only if two (2) elbow fittings are used. Starting with either end as the far end, measure angle clockwise to describe the displacement angle of the near end

Box 11: Hose Assembly Guards	
Symbol	Description
SG =	Spring Guard
AG =	Armor Guard
HG =	Polyguard
PG =	ParkKoil™
FS =	Fire Sleeve
AS =	Partek Sleaving
PS =	Partek Sleaving
<b>Note:</b> When spelling out an assembly part number, list entire sleaving part number	

## HYDRAULIC

## 451TC/ST, 451TC Twin Tough



Parker 451TC and 451ST hydraulic hoses are what to specify when abrasion resistance and ease of use are required. Plus, you can choose the cover that provides the abrasion resistance for your application.

- One-half SAE 100R1 minimum bend radius – flexible, easy to work with and install
- Specially engineered TC and ST covers prolong hose life and minimize downtime
- 3,000 psi constant working pressure in all sizes
- Exceeds SAE 100R17 specification



## 451TC

## Hydraulic – Tough Cover

SAE 100R17, J1942 / ISO 11237 – 1 TYPE R17 – Constant Working Pressure / USCG HF / ABS



## 451ST

## Hydraulic – Super Tough Cover

SAE 100R17 / ISO 11237 – 1 TYPE R17 – Constant Working Pressure



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Synthetic rubber.

**Reinforcement:** One or two braid steel wire (4-spiral for size -20).

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.

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

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



Twin Tough hoses eliminate the labor and material costs required to manually bundle two separate hoses using tie straps or plastic sleeves. Plus, Parker’s Twin Tough saves valuable time in the field.

- 3,000 psi constant working pressure in -6-6 and -8-8
- One-wire braided construction
- Abrasion-resistant TC cover



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.







**Reinforcement:** One braid steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.

451TC  
Hydraulic – Twin Tough Cover  
SAE 100R17, J1942 / ISO 11237 – 1 TYPE R17 – Constant Working Pressure / USCG HF / ABS

# Part Number											
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
451TC-6-6	3/8	10	0.68	17	3000	21,0	2-1/2	65	0.46	0,68	●
451TC-8-8	1-2	12,5	0.80	20	3000	21,0	3-1/2	90	0.70	1,04	●

For assembly instructions see page C-18.

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



## HYDRAULIC

## 711



711 hose is a medium-pressure, 4-wire spiral constructed hose offered in two large I.D. sizes. Designed for high-impulse, long-life applications like injection molding.

- 3000 psi constant working pressure

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).







**Fittings:** 71 Series - pg. B-71.

## 711

## Hydraulic

J1942 / USCG HF / DNV / ABS



# Part Number											
	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
711-24	1-1/2	38,0	2.07	53	3000	21,0	22	560	2.01	2,99	●
711-32	2	51,0	2.59	66	3000	21,0	28	710	2.75	4,09	●

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

HYDRAULIC

351TC/ST



351TC – Braided construction offering 4000 psi is more flexible than its standard spiral counterpart.

- Specifically engineered TC and ST covers prolong hose life and minimize downtime
- 4000 psi constant working pressure in all sizes
- Exceeds SAE 100R19, J517 specifications



351TC

Hydraulic – Tough Cover

SAE 100R19, J517 – Constant Working Pressure



351ST

Hydraulic – Super Tough Cover

SAE 100R19, J517 – Constant Working Pressure



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.

# Part Number	 Hose I.D.		 Hose O.D.		 Working Pressure		 Minimum Bend Radius		 Weight		 Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
351TC/ST-4	1/4	6,3	.51	13	4000	28	2	50	0.20	0,30	•
351TC/ST-6	3/8	10	.67	17	4000	28	2-1/2	65	0.28	0,42	•
351TC/ST-8	1/2	12,5	.80	20	4000	28	3-1/2	90	0.35	0,52	•
351TC/ST-10	5/8	16	.93	24	4000	28	4	100	0.44	0,66	•
351TC/ST-12	3/4	19	1.09	28	4000	28	4-3/4	120	0.58	0,86	•

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 722TC



722TC hose was designed for high performance. Its resilient 4-wire spiral construction and Parker's leading Tough Cover® provide unmatched application usage. 722TC hose provides SAE 100R12 performance enabling its use in a wide variety of applications. It is also one-half the bend radius of SAE 100R12 hose, making it easy to install and reducing the amount of hose needed and its synthetic rubber inner tube provides a wider range of fluid compatibility.

- Half the bend radius of SAE 100R12 hose, reducing the amount of hose needed to make your connection
- 4-spiral construction for longer lasting hose in high impulse, heavy duty cycle applications
- SAE 100R12 performance to cover a wide variety of applications
- Synthetic rubber inner tube provides a wider range of fluid compatibility



## 722TC

## Hydraulic – Tough Cover

SAE 100R12, J1942 / ISO 3862-1 TYPE R12 /  
TYPE R12 / USCG HF / DNV / ABS



**Application:** Petroleum based hydraulic fluids, lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to 125°C).

**Fittings:** 43 Series, sizes -6 to -20 - pg. B-27.

71 Series, size -24 to -32 - pg. B-71.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 71 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
722TC-6	3/8	10	0.80	20	4000	28,0	2-1/2	65	0.40	0,60	•	
722TC-8	1/2	12,5	0.93	24	4000	28,0	3-1/2	90	0.54	0,80	•	
722TC-10	5/8	16	1.06	27	4000	28,0	4	100	0.74	1,10	•	
722TC-12	3/4	19	1.21	31	4000	28,0	4-3/4	120	0.94	1,40	•	
722TC-16	1	25	1.50	38	4000	28,0	6	150	1.34	1,99	•	
722TC-20	1-1/4	31,4	1.84	46	3000	21,0	8-1/4	210	1.74	2,59	•	
722TC-24	1-1/2	38	2.07	53	2500	17,5	10	250	2.01	2,99		•
722TC-32	2	51	2.59	66	2500	17,5	12-1/2	320	2.75	4,09		•

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



**HYDRAULIC****772TC/ST**

Durable four-spiral construction with synthetic rubber inner tube providing a wider range of fluid compatibility.

- Synthetic rubber inner tube provides a wider range of fluid compatibility
- Meets SAE 100R12 specifications

**772TC****Hydraulic – Tough Cover**

SAE 100R12, J1942 / ISO 3862-1 TYPE R12 / EN 856 TYPE R12 / USCG HF / DNV / ABS

**772ST****Hydraulic – Super Tough Cover**

SAE 100R12 / ISO 3862-1 TYPE R12 / EN 856 TYPE R12



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 71 Series - pg. B-71.

# Part Number											
	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	71 Series
772TC/ST-6	3/8	10	0.79	20	4000	28,0	5	125	0.40	0,60	●
772TC/ST-8	1/2	12,5	0.94	24	4000	28,0	7	180	0.62	0,93	●
772TC/ST-10	5/8	16	1.08	27	4000	28,0	8	200	0.74	1,10	●
772TC/ST-12	3/4	19	1.21	31	4000	28,0	9-1/2	240	0.94	1,40	●
772TC/ST-16	1	25	1.50	38	4000	28,0	12	300	1.34	1,99	●
772TC/ST-20	1-1/4	31,5	1.84	46	3000	21,0	16-1/2	420	1.74	2,59	●
772TC/ST-24	1-1/2	38	2.07	53	2500	17,5	20	500	2.01	2,99	●
772TC/ST-32	2	51	2.59	66	2500	17,5	25	630	2.75	4,09	●

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 721, 721TC



The Parker 721 family of hoses pushes the envelope in high-pressure applications where space is tight. Critical high-pressure applications in limited spaces calls for 721 hose. With its one-half SAE 100R12 minimum bend radius and abrasion resistant cover offering, 721 hose enables you to use less hose while guarding against hose-to-hose and hose-to-object abrasion. No matter how demanding the environment, 721 hose will keep your equipment working hard.

- One-half SAE 100R12 minimum bend radius means you use less hose
- Specially engineered Tough Cover compound resists abrasion in aggressive environments
- Up to 4000 psi working pressure
- Unique three-color layline makes hose easy to identify

## 721

## Hydraulic

SAE 100R12 / ISO 3862-1 TYPE R12 / EN 856 TYPE R12



## 721TC

## Hydraulic – Tough Cover

SAE 100R12, J1942 / ISO 3862-1 TYPE R12 / EN 856 TYPE R12 / USCG HF / DNV / ABS



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 71 Series - pg. B-71.

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

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

**HYDRAULIC****721ST**

The Parker 721 family of hoses pushes the envelope in high-pressure applications where space is tight. Critical high-pressure applications in limited spaces calls for 721 hose. With its one-half SAE 100R12 minimum bend radius and abrasion resistant cover offering, 721 hose enables you to use less hose while guarding against hose-to-hose and hose-to-object abrasion. No matter how demanding the environment, 721 hose will keep your equipment working hard.

- One-half SAE 100R12 minimum bend radius means you use less hose
- Specially engineered Tough Cover compound resists abrasion in aggressive environments
- Up to 4000 psi working pressure
- Unique three-color layline makes hose easy to identify

**721ST****Hydraulic – SuperTough Cover**

SAE 100R12 / ISO 3862-1 TYPE R12 / EN 856 TYPE R12



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 71 Series - pg. B-71.

# Part Number											
	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	71 Series
721ST-8	1/2	12,5	0.94	24	4000	28,0	3-1/2	90	0.54	0,80	●
721ST-10	5/8	16	1.08	27	4000	28,0	4	100	0.74	1,10	●
721ST-12	3/4	19	1.21	31	4000	28,0	4-3/4	120	0.94	1,40	●
721ST-16	1	25	1.50	38	4000	28,0	6	150	1.34	1,99	●
721ST-20	1-1/4	31,5	1.84	46	3000	21,0	8-1/4	210	1.74	2,59	●

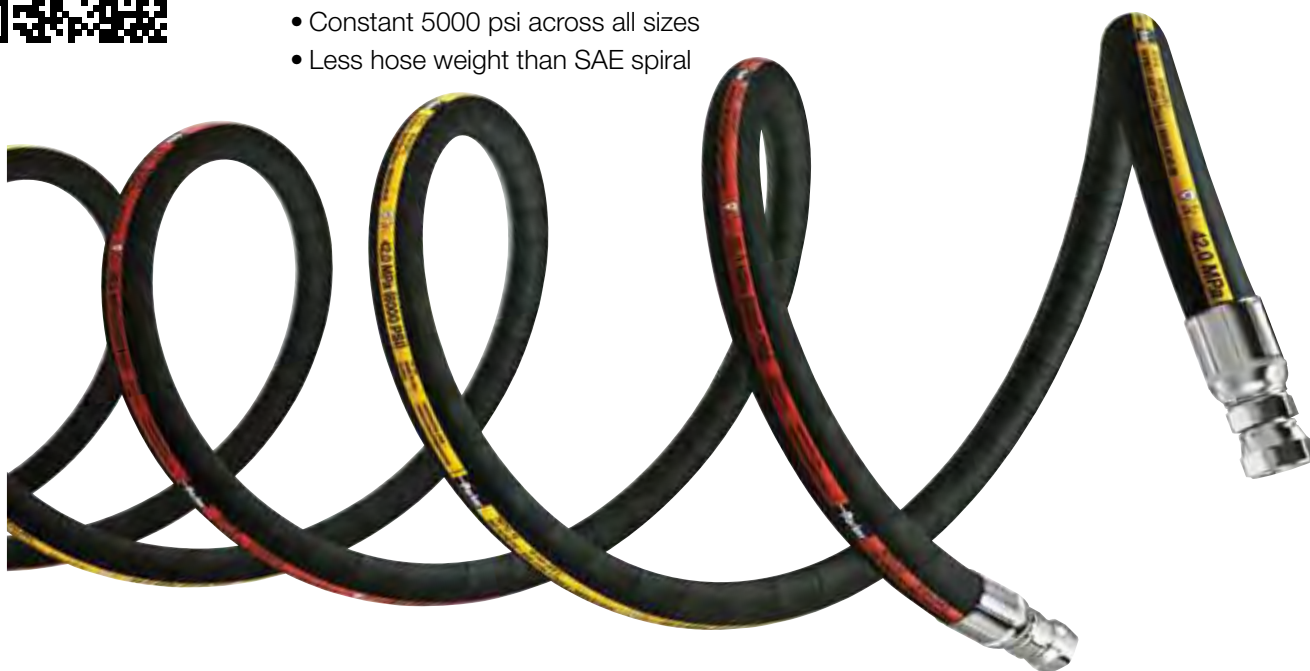
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

**COMPACT SPIRAL™****787TC**

Compared with conventional spiral hose, Parker's Compact Spiral™ 787TC Hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. A world's first, this development is the most significant advancement in hydraulic hose since the introduction of Parker's No-Skive™ technology more than 25 years ago.



- Half the bend radius of SAE spiral
- One-third less effort to bend
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested
- Constant 5000 psi across all sizes
- Less hose weight than SAE spiral

**787TC****Hydraulic – Tough Cover**

SAE J1754, J1942 / ISO 18752-DC / USCG HF / DNV / ABS



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Proprietary synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

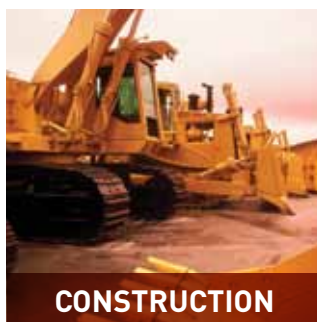
**Temperature Range:**  
-40°C to +125°C  
(-40°F to +257°F).

**Fittings:** 77 Series - pg. B-96.

# Part Number											
	Hose I.D. inch	mm	Hose O.D. inch	mm	Working Pressure psi	MPa	Minimum Bend Radius inch	mm	Weight lbs/ft	kg/m	
787TC-8	1/2	12,5	0.83	21,1	5000	35,0	3-1/2	90	0.45	0,67	•
787TC-10	5/8	16	0.94	23,9	5000	35,0	4	100	0.54	0,80	•
787TC-12	3/4	19	1.10	27,9	5000	35,0	4-3/4	120	0.78	1,16	•
787TC-16	1	25	1.40	35,7	5000	35,0	6	150	1.17	1,74	•
787TC-20	1-1/4	31,5	1.77	44,9	5000	35,0	8-1/4	210	1.95	2,89	•

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.





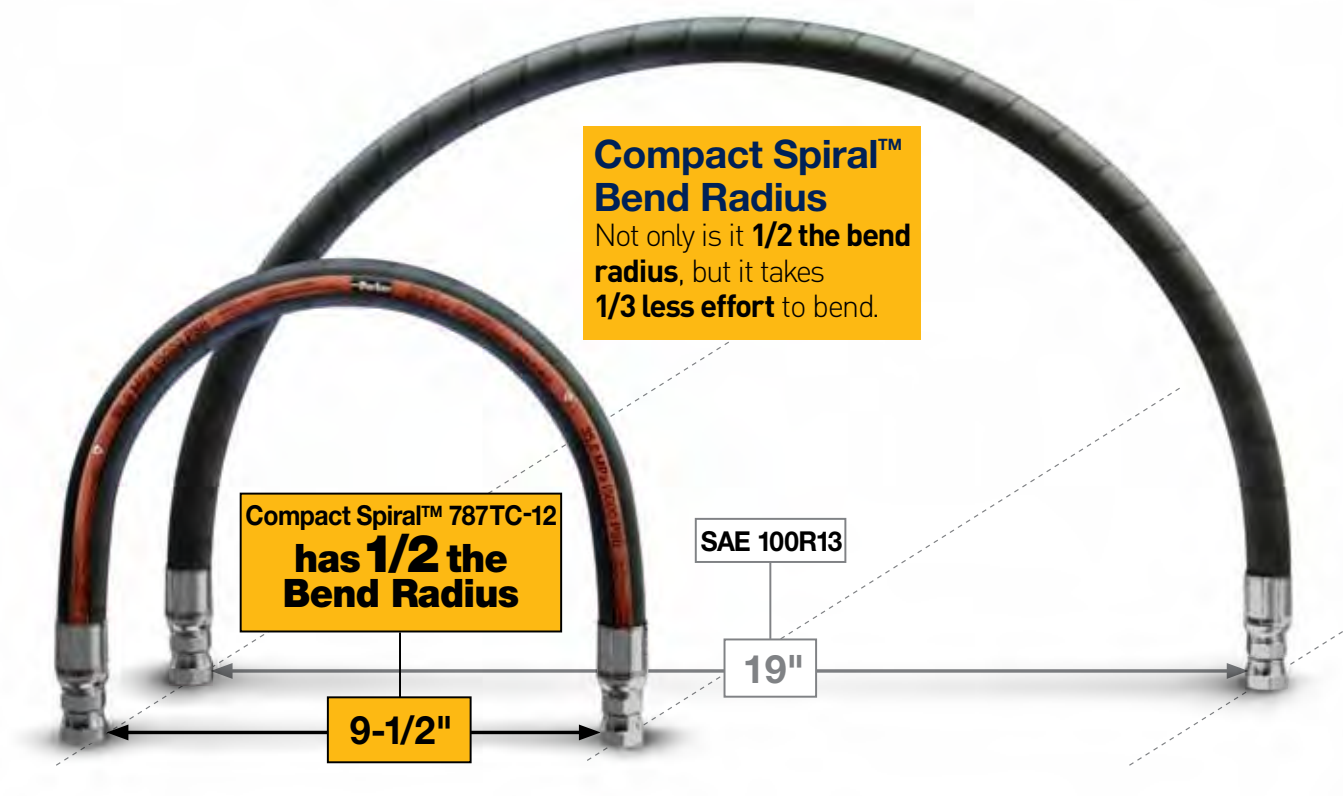
## Strong like spiral. Bends like braided.

Compact Spiral Hose has half the bend radius of its SAE counterpart and a significantly smaller bend radius than corresponding-size Parker conventional spiral hose.

In addition to maximum flexibility and excellent bendability, Parker Compact Hoses offer smaller outer diameters and abrasion resistant

cover choices. Such characteristics make them the hoses of choice for mobile hydraulic systems, agricultural machinery, forestry equipment, fork lifts, construction, machinery, injection molding, automotive, and the paper industry.

Less-bulky inner tube and outer wall construction result in up to one-third smaller Compact Spiral Hose O.D. area, enabling easier routing, hose and space savings.



**HYDRAULIC****781**

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four or six spiral steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 78 Series - pg. B-108.







Designed for high-pressure applications and for high-impulse, high-duty cycles.

- 4- or 6-wire spiral construction
- Constant working pressure – 5000 psi in all sizes
- Meets SAE 100R13 specifications

**781****Hydraulic**

SAE 100R13, J1942 / ISO 3862-1 TYPE R13 / EN856 TYPE R13 / USCG HF / DNV / ABS



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

**P35**

Large-bore 2 inch size for high-pressure applications.

- Meets SAE 100R13, ISO 3862-1 Type R13 and EN 856 Type R13 specifications
- No-Skive design eliminates the need to remove the hose cover before crimping
- Approved with S6 Series fittings
- MSHA accepted cover

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four or six spiral steel wire.

**Cover:** Synthetic rubber, MSHA accepted.







**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** S6 Series - pg. B-109.

**P35****Hydraulic**

SAE 100R13, J1942 / ISO 3862-1 TYPE R13 / EN856 TYPE R13 / USCG HF / DNV / ABS / BV



# Part Number											
	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	S6 Series
P35-32	2	51	2.80	71	5000	35.0	25	630	5.03	7.48	●

NOTE: P35-32 Hose must be crimped with S6 Series fittings.

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

HYDRAULIC

782TC/ST



Robust construction with synthetic rubber inner tube providing wider fluid compatibility.

- Synthetic rubber inner tube for wide fluid compatibility
- 5000 psi constant working pressure in all sizes
- Meets SAE 100R13 specification

782TC

Hydraulic – Tough Cover

SAE 100R13, J1942 / ISO 3862-1 TYPE R13 / EN856 TYPE R13 / USCG HF / DNV / ABS / BV



782ST

Hydraulic – Super Tough Cover

SAE 100R13 / ISO 3862-1 TYPE R13 / EN856 TYPE R13



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four or six spiral steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 78 Series - pg. B-108.

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

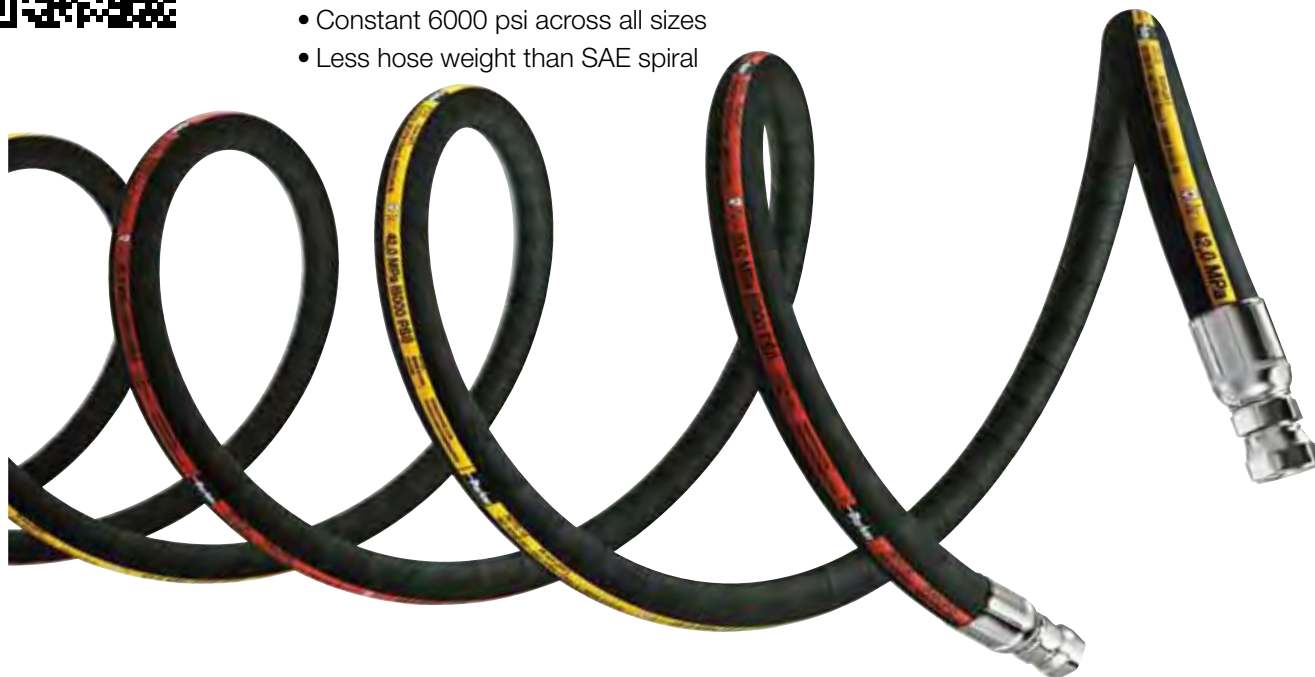
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

**COMPACT SPIRAL™****797TC**

Compared with conventional spiral hose, Parker's Compact Spiral™ 797TC Hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. A world's first, this development is the most significant advancement in hydraulic hose since the introduction of Parker's No-Skive™ technology more than 25 years ago.



- Half the bend radius of SAE spiral
- One-third less effort to bend
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested
- Constant 6000 psi across all sizes
- Less hose weight than SAE spiral

**797TC****Hydraulic – Tough Cover**

SAE J1754, J1942 / ISO 18752-DC / USCG HF / DNV / ABS



**Application:** Petroleum base hydraulic fluids and lubricating oils.







**Inner Tube:** Proprietary synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:**  
-40°C to +125°C  
(-40°F to +257°F).

**Fittings:** 77 Series - pg. B-96.

# Part Number											
	Hose I.D. inch	mm	Hose O.D. inch	mm	psi	MPa	Minimum Bend Radius inch	mm	lbs/ft	kg/m	
797TC-8	1/2	12,5	0.83	21,1	6000	42,0	4	100	0.45	0,67	•
797TC-10	5/8	16	0.94	23,9	6000	42,0	4-1/2	100	0.54	0,80	•
797TC-12	3/4	19	1.10	27,9	6000	42,0	5-1/4	135	0.78	1,16	•
797TC-16	1	25	1.40	35,7	6000	42,0	6-1/2	165	1.17	1,74	•
797TC-20	1-1/4	31,5	1.77	44,9	6000	42,0	8-3/4	225	1.95	2,89	•

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



**OIL & GAS****MINING****CONSTRUCTION****INJECTION MOLDING**

## Strong like spiral. Bends like braided.

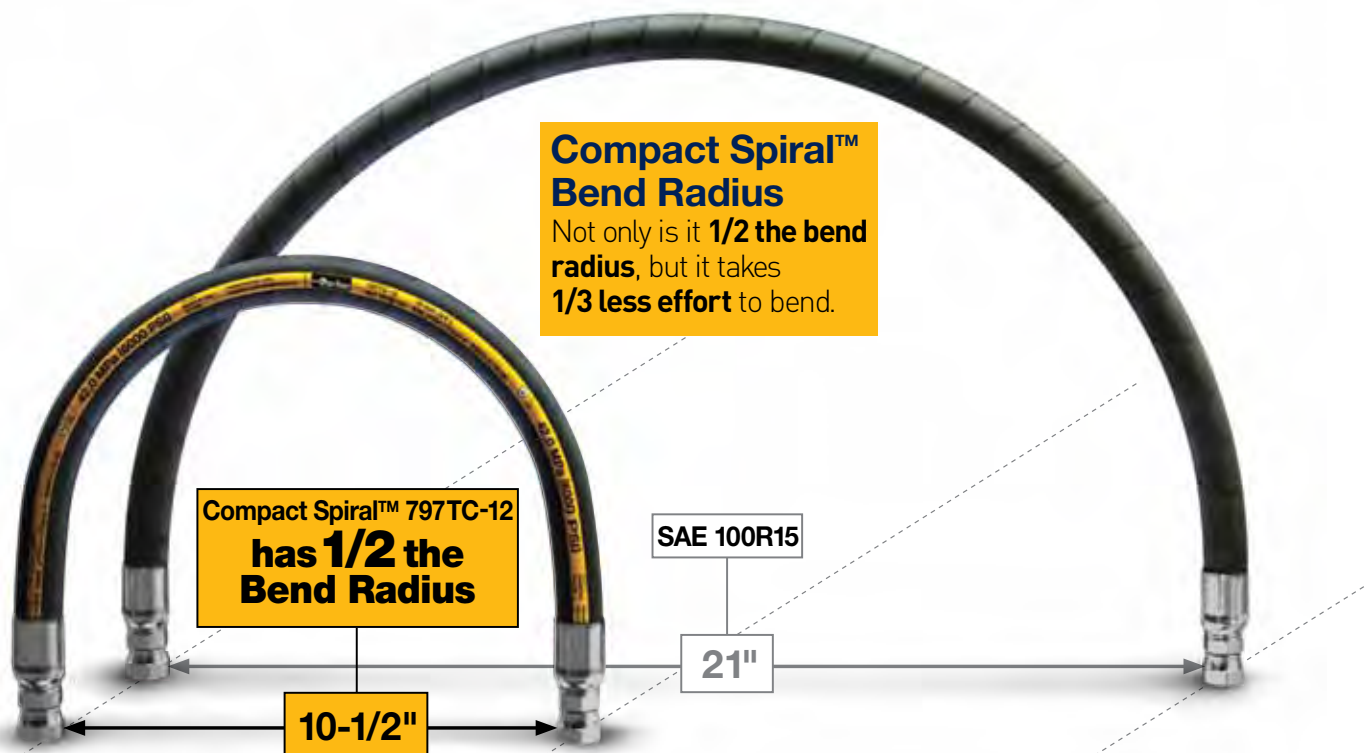
Compact Spiral Hose has half the bend radius of its SAE counterpart and a significantly smaller bend radius than corresponding-size Parker conventional spiral hose.

In addition to maximum flexibility and excellent bendability, Parker Compact Hoses offer smaller outer diameters and abrasion resistant

cover choices. Such characteristics make them the hoses of choice for mobile hydraulic systems, agricultural machinery, forestry equipment, fork lifts, construction, machinery, injection molding, automotive, and the paper industry.



Less-bulky inner tube and outer wall construction result in up to one-third smaller Compact Spiral Hose O.D. area, enabling easier routing, hose and space savings.



## HYDRAULIC

## 791TC



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four or six spiral steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 79 Series - pg. B-121.

Designed for up to 6000 psi high-impulse, high-duty cycle applications.

- One-half minimum bend radius
- 6000 psi constant working pressure in all sizes
- Exceeds SAE 100R15 specification

## 791TC

## Hydraulic – Extreme Tough Cover

SAE 100R15, J1942 / ISO 3862-1 TYPE R15 / USCG HF / DNV / ABS



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



## 792TC/ST

Designed for up to 6000 psi high-impulse, high-duty cycle applications with high synthetic rubber inner tube providing wider fluid compatibility.

- One-half minimum bend radius
- 6000 psi constant working pressure in all sizes
- Exceeds SAE 100R15 specification

## 792TC

## Hydraulic – Tough Cover

SAE 100R15, J1942 / ISO 3862-1 TYPE R15 / USCG HF / DNV / ABS



## 792ST

## Hydraulic – Super Tough

SAE 100R15 / ISO 3862-1 TYPE R15



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four or six spiral steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 79 Series - pg. B-121.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 79 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
792TC/ST-12	3/4	19	1.26	32	6000	42,0	10-1/2	265	1.07	1,59	●
792TC/ST-16	1	25	1.52	39	6000	42,0	13	330	1.48	2,20	●

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

**HYDRAULIC****761**

Designed to provide high pressure capability for the next generation of high-pressure pumps

- 8000 psi constant working pressure in all sizes

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Six spiral steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 76 Series - pg. B-94.

## 761

### Hydraulic – ParMax



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 76 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
761-12	3/4	19	1.37	34,8	8000	56,0	10-1/2	260	1.56	2.32	●
761-16	1	25	1.65	41,9	8000	56,0	13	330	2.02	3.00	●

**JK – Jack Hose**

Parker Jack Hose should be your choice for use on hydraulically powered jacking equipment. From its engineered inner tube, and twin braids of high-tensile steel reinforcement, to its durable outer cover, our hydraulic Jack Hose has been designed for high performance, easily supporting the rigors of high tonnage hydraulic jack applications. Jack Hose comes with the added benefits of the world's largest distributor network and Parker's unequalled technical services.

- 10,500 max working pressure
- Engineered inner tube provides exceptional hydraulic fluid compatibility
- No-Skive design eliminates the need to remove hose cover before crimping

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber

**Reinforcement:** Two braids steel wire

**Cover:** Synthetic rubber, MSHA accepted

**Temperature Range:** -40°F to +120°F (-40°C to +49°C)

**Fittings:** 10143-4-4,  
10143-4-6,  
10143-6-4,  
10143-6-6  
pg. B-29.

## JK

### Hydraulic – Jack Hose



SAE 100R2 AT / ISO 1436-1 TYPE 2SN / EN 853 TYPE 2SN / 1J100,NFPA 1936

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
JK-4	1/4	6,3	0.59	15	10500	72,4	4	100	0.26	0,39	●
JK-6	3/8	10	0.75	22	10000	70	5	125	0.37	0,55	●

**NOTE: THIS PRODUCT CAN ONLY BE ASSEMBLED BY CERTIFIED DISTRIBUTORS OR CUSTOMERS ACCORDING TO THE METHODS PRESCRIBED IN BULLETIN 4480-T18-US. JK HOSE HAS A 2:1 DESIGN FACTOR.**

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 422



Parker's worldwide hose line is designed to accommodate global customer requirements. Manufactured to strict international specifications, 422 hose offers customers consistency of performance combined with improved availability anywhere in the world.

- One-wire braid hose design manufactured to international specifications (ISO 1436-1 Type 1SN)
- Increased working pressures for improved reliability and expanded applications versus standard SAE 100R1
- Synthetic rubber inner tube for greater fluid compatibility and bio-oil resistance
- EN853 Type 1SN



## 422

## Hydraulic Worldwide

ISO 1436-1 TYPE 1SN/SAE 100R1 TYPE AT, J1942 / EN 853 TYPE 1SN / USCG HF / DNV / ABS

**Application:** Petroleum base hydraulic fluids and lubricating oils.  
**Inner Tube:** Synthetic rubber.  
**Reinforcement:** One braid steel wire.  
**Cover:** Synthetic rubber.  
**Temperature Range:** -40°F to +212°F (-40°C to +100°C).  
**Fittings:** 43 Series - pg. B-27.  
 42 Series - pg. B-173.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Field Attachable	
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	43 Series	42 Series
422-4	1/4	6,3	0.53	13	3250	22,5	4	100	0.16	0,24	24	81	•	•
422-5	5/16	6,3	0.59	15	3125	21,5	4-1/2	115	0.18	0,27	24	81	•	•
422-6	3/8	10	0.68	17	2600	18,0	5	130	0.23	0,34	24	81	•	•
422-8	1/2	12,5	0.81	21	2325	16,0	7	180	0.29	0,43	24	81	•	•
422-10	5/8	16	0.94	24	1875	13,0	8	200	0.33	0,49	24	81	•	•
422-12	3/4	19	1.09	28	1525	10,5	9-1/2	240	0.42	0,63	24	81	•	•
422-16	1	25	1.41	36	1275	8,8	12	300	0.63	0,94	24	81	•	•
422-20	1-1/4	31,5	1.79	45	900	6,3	16-1/2	420	0.8	1,19	18	61	•	•
422-24	1-1/2	38	2	51	725	5,0	20	500	1	1,49	18	61	•	•
422-32	2	51	2.54	64	575	4,0	25	630	1.5	2,24	18	61	•	•

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



HYDRAULIC

482TC/ST



Synthetic rubber inner tube provides wide fluid compatibility.

- 1/2 minimum bend radius for ease of routing
- Meets SAE 100R1 specification



482TC  
Hydraulic – Tough Cover

SAE 100R1 TYPE AT, J1942 / ISO 1436-1 TYPE 1SN / EN853 TYPE 1SN / USCG H



482ST  
Hydraulic – Super Tough Cover

SAE 100R1 TYPE AT / ISO 1436-1 TYPE 1SN / EN853 TYPE 1SN



**Application:** Petroleum base hydraulic fluids and lubricating oils.








**Inner Tube:** Synthetic rubber.

**Reinforcement:** One braid steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.  
42 Series - pg. B-173.

# Part Number												
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series	42 Series
482TC/ST-4	1/4	6,3	0.53	14	3250	22,7	2	50	0.16	0,24	•	•
482TC-5	5/16	8	0.59	15	3250	22,7	2-1/4	55	0.18	0,27	•	•
482TC/ST-6	3/8	10	0.69	17	3000	21,0	2-1/2	65	0.23	0,34	•	•
482TC/ST-8	1/2	12,5	0.82	21	2500	17,5	3-1/2	90	0.29	0,43	•	•
482TC/ST-10	5/8	16	0.94	24	2000	14,0	4	100	0.33	0,49	•	•
482TC/ST-12	3/4	19	1.09	28	1750	12,2	4-3/4	120	0.42	0,63	•	•
482TC/ST-16	1	25	1.41	36	1275	8,8	6	150	0.63	0,94	•	•

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 426



Designed for high-temperature applications that can handle temperatures up to 302° F.

- Engine compartment applications
- Meets SAE 100R1 specification
- Distinctive blue cover indicates high temperature rating
- Temperature up to 302° F







## 426

## Hydraulic – High-Temperature

SAE 100R1 TYPE AT, J1942 / USCG HF / ABS



<b>Application:</b> Petroleum base hydraulic fluids and lubricating oils.
<b>Inner Tube:</b> PKR®.
<b>Reinforcement:</b> One braid steel wire.
<b>Cover:</b> PKR® rubber, blue, MSHA accepted
<b>Temperature Range:</b> -50°F to +302°F (-46°C to +150°C).
<b>Fittings:</b> 43 Series - pg. B-27.

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

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 302



Parker's 302 hose, a universal two-wire construction hose designed to accommodate global customer requirements, is manufactured to strict international quality specifications. Parker's 302 offers customers consistency of performance combined with continuous availability anywhere in the world. It offers a high working pressure, long service life and a wide fluid compatibility.

- Universal two-wire hose design manufactured to international specifications (ISO 1436-1 Type 2SN)
- Increased working pressures for improved reliability and expanded applications
- Synthetic rubber inner tube for greater fluid compatibility and bio-oil resistance



## 302

## Hydraulic Worldwide

ISO 1436-1 TYPE 2SN / SAE 100R2 TYPE AT, J1942 /  
EN 853 TYPE 2SN / USCG HF / DNV / ABS / BV



**Application:** Petroleum base hydraulic fluids and lubricating oils.








**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.  
30 Series - pg. B-167.

# Part Number												
	Hose ID inch	Hose ID mm	Hose O.D. inch	Hose O.D. mm	Working Pressure psi	Working Pressure Mpa	Minimum Bend Radius inch	Minimum Bend Radius mm	Weight lbs/ft	Weight kg/m	Parkrimp 43 Series	Field Attachable 30 Series
302-4	1/4	6,3	0.59	15,0	5800	40	4	100	0.26	0,39	•	•
302-5	5/16	8	0.65	16,6	5000	35	4-1/2	115	0.28	0,42	•	•
302-6	3/8	10	0.75	19,0	4750	33	5	130	0.37	0,55	•	•
302-8	1/2	12,5	0.88	22,3	4000	28	7	180	0.45	0,67	•	•
302-10	5/8	16	1.00	25,5	3600	25	8	200	0.52	0,77	•	•
302-12	3/4	19	1.16	29,4	3100	21,5	9-1/2	240	0.67	1,00	•	•
302-16	1	25	1.50	38,1	2400	16,5	12	300	1.00	1,49	•	•
302-20	1-1/4	31,5	1.86	47,1	1800	12,5	16-1/2	420	1.16	1,73	•	•
302-24	1-1/2	38	2.14	54,5	1300	9	20	500	1.44	2,14	•	•
302-32	2	51	2.64	67,2	1150	8	25	630	1.99	2,96	•	•

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 431



For applications with tighter routing requirements and needing a reduced bend radius, 431 features a compact construction and 1/2 minimum bend radius.

- Features a smaller O.D. for tighter routing
- Compact construction
- Half the minimum bend radius

## 431

## Hydraulic

SAE J1942 / USCG H



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

**Fittings:** 43 Series - pg. B-27.  
42 Series - pg. B-173.

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

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



HYDRAULIC

436



With one-half the minimum SAE bend radius and a smaller hose O.D., 436 hose has the flexibility to work in almost any application – including tight spots. Engineered to withstand high pressure within a wide range of working temperatures, Parker 436 is not only versatile, but dependable over a long hose life. For quality, service and value, there’s simply no match.

- Compact construction provides easier routing
- Temperatures up to 302° F
- Distinctive blue cover indicates high temperature capability
- Reduced bend radius and excellent flexibility
- 2-wire braided reinforcement with smaller construction
- Meets SAE 100R16 / ISO 11237 Type R16 specifications

436

Hydraulic – Compact High Temperature  
SAE 100R16 / ISO 11237 TYPE R16



**Application:** Petroleum base hydraulic fluids and lubricating oils.








**Inner Tube:** PKR®

**Reinforcement:** Two braids steel wire.

**Cover:** PKR rubber, blue, MSHA accepted.

**Temperature Range:** -55°F to +302°F (-48°C to +150°C).

**Fittings:** 43 Series - pg. B-27.  
42 Series - pg. B-173.

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

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 471TC/ST



2-wire braided compact construction.

- Smaller O.D. for ease of installation
- Approved with 43 Series fittings
- Provides 1/2 minimum bend radius



## 471TC

## Hydraulic – Tough Cover

SAE 100R16, J1942 / ISO 11237-1 TYPE 2SC / EN 857 TYPE 2SC / USCG HF / DNV / ABS / BV



## 471ST

## Hydraulic – Super Tough Cover

SAE 100R16 / ISO 11237-1 TYPE 2SC / EN 857 TYPE 2SC



**Application:** Petroleum base hydraulic fluids and lubricating oils.








**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.

# Part Number	 Hose I.D.		 Hose O.D.		 Working Pressure		 Minimum Bend Radius		 Weight		 Vacuum Rating		 Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	
471TC/ST-4	1/4	6,3	0.51	13	5800	40,0	2	50	0.20	0,30	28	95	•
471TC/ST-6	3/8	10	0.68	17	5000	35,0	2-1/2	65	0.28	0,42	28	95	•
471TC/ST-8	1/2	12,5	0.80	20	4250	29,7	3-1/2	90	0.35	0,52	28	95	•
471TC/ST-10	5/8	16	0.94	24	3625	25,0	4	100	0.44	0,66	28	95	•
471TC/ST-12	3/4	19	1.09	28	3125	21,5	4-3/4	120	0.58	0,86	24	80	•
471TC/ST-16	1	25	1.40	35	2500	17,5	6	150	0.79	1,17	24	80	•

For larger sizes see 472TC.

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## 471TC Twin Tough



Twin Tough hoses eliminate the labor and material costs required to manually bundle two separate hoses using tie straps or plastic sleeves. Plus, Parker's Twin Tough saves valuable time in the field.

- 5000 psi constant working pressure in -6-6 and 4000 psi in -8-8
- Two-wire braided construction
- Abrasion-resistant TC cover



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.

## 471TC

## Hydraulic – Twin Tough Cover

SAE 100R16, J1942 / ISO 11237-1 TYPE 2SC / EN 857 TYPE 2SC / USCG HF / DNV / ABS / BV

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
471TC-6-6	3/8	10	0.68	17	5000	35,0	2-1/2	65	0.56	0,84	•
471TC-8-8	1/2	12,5	0.80	20	4250	29,7	3-1/2	90	0.70	1,04	•

For assembly instructions see page C-18.



## 472TC

Large sizes offered for bigger jobs.

- Synthetic rubber inner tube provides wide fluid compatibility
- Available in larger sizes: -20, -24, -32
- 2-wire braided construction



## 472TC

## Hydraulic – Tough Cover

SAE J1942 / ISO 11237-1 TYPE 2SC / EN 857 TYPE 2SC / USCG HF / DNV / ABS

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

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 43 Series - pg. B-27.

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## HYDRAULIC

## AX



Designed for many markets and applications requiring a one-wire braided hose.

- 1-wire braided construction
- Approved with HY Series fittings

## AX

## Hydraulic

SAE J1942 / USCG H



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic Rubber.

**Reinforcement:** One braid steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** HY Series - pg. B-126.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp HY Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
AX04	1/4	6,3	0.50	13	3000	21	2	50	0.15	0,22	●
AX06	3/8	10	0.62	16	3000	21	2-1/2	65	0.19	0,28	●
AX08	1/2	12,5	0.75	19	2500	17,5	3-1/2	90	0.24	0,36	●
AX10	5/8	16	0.88	22	1500	10,5	4	100	0.29	0,43	●
AX12	3/4	19	1.01	26	1250	8,7	4-3/4	120	0.34	0,51	●
AX16	1	25	1.29	33	1000	7	6	150	0.48	0,72	●



## BXX

Designed as a 2-wire braided option for selected pressure/temperature ranges, up to 5000 psi.

- Designed as a cost competitive option for applications not requiring industry standard specifications
- 2-wire braided construction
- Approved with HY Series fittings

## BXX

## Hydraulic

SAE J1942 / USCG H



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** HY Series - pg. B-126.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
BXX04	1/4	6,3	0.59	15	5000	35	4	100	0.27	0,40	HY
BXX06	3/8	10	0.74	19	4000	28	5	125	0.38	0,57	HY
BXX08	1/2	12,5	0.87	22	3500	24,5	7	180	0.46	0,69	HY
BXX10	5/8	16	1.00	25	2750	19,2	8	200	0.55	0,82	HY
BXX12	3/4	19	1.15	29	2250	15,7	9-1/2	240	0.65	0,97	HY
BXX16	1	25	1.49	38	2000	14	12	305	0.98	1,46	HY

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



## HYDRAULIC

## 701, 731



4-wire spiral construction meeting European EN 456 4SP or 4SH standard.

- These two hoses pair together to provide a wide range of sizes for applications that need to meet European specifications

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** Synthetic rubber.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 70 Series - pg. B-61.

## 701

## Hydraulic

SAE J1942 / ISO 3862-1 TYPE 4SP / EN 856 TYPE 4SP / USCG H, HF / ABS



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

## 731

## Hydraulic

SAE J1942 / ISO 3862-1 TYPE 4SH / EN 856 TYPE 4SH / USCG HF / DVN / ABS



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

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## SUCTION & RETURN 811, 811HT, 881 Suction Line



These hoses combine to meet a wide range of suction and return application requirements.

- Up to one-half the SAE minimum bend radius for standard and high-temperature applications
- Meets or exceeds SAE 100R4 requirements
- Compatible with Parkrimp or field attachable fittings
- High-visibility layline
- Suitable for vacuum applications from 25 to 28 in/Hg
- Oil- and weather-resistant synthetic rubber cover
- High-temperature range for petroleum-based hydraulic fluids of -40° F to +257° F for 811

### 811 Suction and Return Line 1/2 SAE Minimum Bend Radius SAE 100R4, J1942 / USCG HF



# Part Number	Hose I.D.		Hose O.D.		Working Pressure				Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp 81 Series	Field Attachable 88 Series w/HC or DB
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa		
811-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	2-1/2	64	0.42	0,63	25	84	•	•
811-16	1	25,4	1.50	38,0	250	1,7	70	0,5	3	76	0.65	0,96	25	84	•	•
811-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	4	102	0.82	1,22	25	84	•	•
811-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	5	127	1.04	1,55	25	84	•	•
811-32	2	50,8	2.50	63,6	100	0,7	50	0,3	6	152	1.26	1,87	25	84	•	•
811-40	2-1/2	63,5	3.00	76,2	62	0,4	62	0,4	7	178	1.64	2,45	25	84	•	•

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Multiple layers of fiber spiral and one helical wire.

**Cover:** Synthetic rubber.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 81 Series - pg. B-197.  
88 Series - pg. B-197.









- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## 811HT

### Suction and Return Line – High-Temperature 1/2 SAE Minimum Bend Radius

SAE 100R4, J1942 / USCG HF



# Part Number																
	Hose I.D.		Hose O.D.		Working Pressure				Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	81/88DB psi	88HC MPa	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	81 Series	88 Series w/HC or DB
811HT-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	2-1/2	64	0.42	0,63	28	95	●	●
811HT-16	1	25,4	1.50	38,0	250	1,7	70	0,5	3	76	0.65	0,96	28	95	●	●
811HT-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	4	102	0.82	1,22	28	95	●	●
811HT-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	5	127	1.04	1,55	28	95	●	●
811HT-32	2	50,8	2.50	63,6	100	0,7	50	0,3	6	152	1.26	1,87	28	95	●	●
811HT-40	2-1/2	63,5	3,00	76,2	62	0,4	62	0,4	7	178	1.82	2,71	28	95	●	●

**Application:** Petroleum base hydraulic fluids and lubricating oils.**Inner Tube:** Synthetic rubber.**Reinforcement:** Multiple layers of fiber spiral and one helical wire.**Cover:** Synthetic rubber, MSHA accepted.**Temperature Range:** -50°F to +257°F (-46°C to +125°C).**Fittings:** 81 Series - pg. B-197.









88 Series - pg. B-197.

## 881

### Suction and Return Line

SAE 100R4, J1942 / USCG H, HF



# Part Number																
	Hose I.D.		Hose O.D.		Working Pressure 43/81/88DB 88HC				Minimum Bend Radius		Weight		Vacuum Rating inches		Parkrimp	Field Attachable 88 Series
	inch	mm	inch	mm	psi	MPa	psi	Mpa	inch	mm	lbs/ft	kg/m	of Hg	kPa	43/81 Series	w/HC or DB
881-12	3/4	19,0	1.20	30,6	300	2,1	100	0,7	5	127	0.50	0,74	28	95	●	●
881-16	1	25,4	1.49	37,9	250	1,7	70	0,5	6	152	0.60	0,89	28	95	●	●
881-20	1-1/4	31,8	1.78	45,3	200	1,4	50	0,3	8	203	0.89	1,32	28	95	●	●
881-24	1-1/2	38,1	2.06	52,4	150	1	50	0,3	10	254	1.11	1,65	28	95	●	●
881-32	2	50,8	2.48	63,1	100	0,7	50	0,3	12	305	1.27	1,89	28	95	●	●
881-40	2-1/2	63.5	3.00	76.2	62	0.4	62	0.4	14	356	1.82	2.71	28	95		●

**Application:** Petroleum base hydraulic fluids and lubricating oils.**Inner Tube:** Synthetic rubber.**Reinforcement:** Multiple layers of fiber spiral and one helical wire.**Cover:** Synthetic rubber, MSHA accepted.**Temperature Range:** -40°F to +257°F (-40°C to +125°C).**Fittings:** 43 Series - pg. B-27.

81 Series - pg. B-197.

88 Series - pg. B-197.

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## PUSH-LOK®

## 801 Multipurpose



Parker's Push-Lok Plus multipurpose hose line features the widest fluid compatibility, application range and size range in the industry. It also incorporates the highest working pressure in all sizes, making it the most versatile general-purpose hose available. The Push-Lok system is easy to use. No clamps or special tools are required during installation. And with Parker's exclusive color-code system, you can inventory, maintain and identify your hose needs easily and efficiently. The industry's most complete line of low-pressure 801, 804 hose and fittings, Push-Lok offers the range and versatility to meet all your instrumentation needs.

- Easy assembly and organization with Parker's exclusive color-code system
- Push-Lok assemblies can be made in seconds, saving valuable time and cost
- The unique seal of Push-Lok ensures reliable, durable, leak-free service



**Application:** Pneumatic, petroleum base hydraulic fluid, lubricating oils and antifreeze solutions.

Diesel fuel - approved only when coupled with HY Series fittings.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** One fiber braid.

**Cover:** Synthetic rubber, MSHA accepted

**Temperature Range:**

**Air:** +158°F (+70°C)

**Water:** +185°F (+85°C)

**Oil:** -40°F to 257°F (-40°C to +125°C).

**Fittings:** 82 Series - pg. B-180.  
HY Series - pg. B-126.

## 801 – Push-Lok Plus®

## Multipurpose

Available Cover Colors:



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp HY Series	Field Attachable 82 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa		
801-4	1/4	6,3	0.50	12,7	350	2,4	2-1/2	65	0.09	0,13	28	95	•	•
801-6	3/8	10	0.63	15,9	350	2,4	3	75	0.11	0,16	28	95	•	•
801-8	1/2	12,5	0.78	19,8	300	2,1	5	125	0.18	0,27	28	95	•	•
801-10	5/8	16	0.91	23,0	300	2,1	6	150	0.19	0,28	15	51	•	•
801-12	3/4	19	1.03	26,2	300	2,1	7	180	0.24	0,36	15	51	•	•
801-16	1	25	1.28	32,6	200	1,4	10	250	0.37	0,55	15	51	•	•

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- Push-Lok is not recommended for any fuel, refrigerant, or for use in air conditioners and heat pump applications.
- Push-Lok is not recommended for applications where extreme pulsation is encountered.
- See Section B for Assembly Instructions.
- Temperature Range of other media listed in Section E.





A

**Push-Lok Plus 801** hose provides the quick and easy assembly/disassembly advantage and the fullest range of color-coding to benefit your operations. It's now approved with both 82 Series push on and HY Series crimp fittings.

**Push-Lok Plus 804** hose features quick and easy assembly and provides an EPDM inner-tube for hot water, dry air and phosphate ester fluids. Not to be used in applications with lubricated air or media that is oil based.

**Push-Lok 821** is a higher-pressure multipurpose hose that is widely used for shop air systems and general industrial and maintenance

applications. Approved with 82 Series fittings, it's also available with a fire-resistant (FR) cover for use near welding operations.

**Push-Lok Plus 836** delivers high-temperature up to 302° F, heat-resistant performance and higher working pressures than 821, along with the same HY and 82 Series fittings compatibility.

#### The color-coded advantages

In applications where a number of hose lines carry different media, Push-Lok colors reduce timely "tracing" of lines, preventing disconnection of the wrong line and unnecessary, costly downtime.

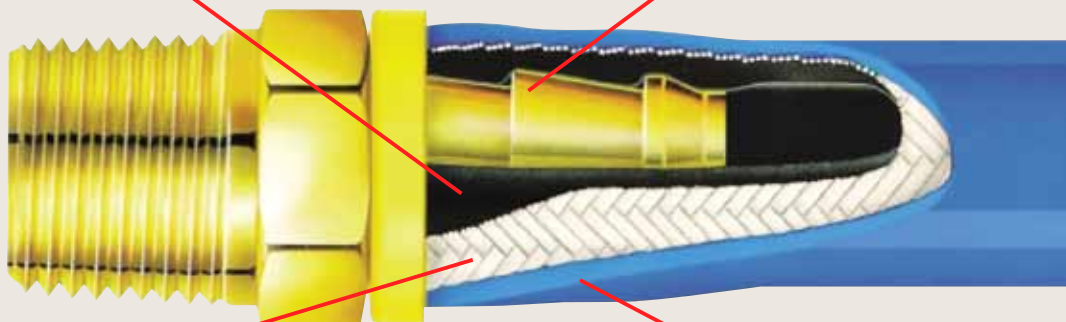
Using color-coded Push-Lok hose is an excellent way to:

- Enhance product appearance
- Improve inventory control
- Identify industrial drop lines



Inner liner is an extruded, synthetic rubber, making it resistant to petroleum-based oil, air and water.

Barbed Push-Lok fitting seals tightly, securely.



Fiber braid reinforcement layer is impregnated with synthetic rubber for added durability.

High-quality elastomer cover – lively feel, excellent flexibility and resistance to abrasion.

## PUSH-LOK®

## 836, 804 Multipurpose

**Application:** Pneumatic, petroleum base hydraulic fluid, lubricating oils, diesel fuels and antifreeze solutions.

**Inner Tube:** PKR®.

**Reinforcement:** One fiber braid.

**Cover:** Blue neoprene or PKR, MSHA accepted.

**Temperature Range:**

**Air:** +212°F (+100°C)

**Water:** +185°F (+85°C)

**Oil:** -55°F to +302°F  
(-48°C to +150°C).

**Diesel fuels:** -40°C to 150°C  
(-40°F to 302°F) with HY crimps only

## 836 – Push-Lok Plus®

### Multipurpose – High-Temperature

Available Cover Colors: **BLU**



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	HY Series	82 Series
836-4	1/4	6,3	0.50	12,7	400	2,8	2-1/2	65	0.09	0,13	28	95	•	•
836-6	3/8	10	0.63	15,9	400	2,8	3	75	0.11	0,16	28	95	•	•
836-8	1/2	12,5	0.78	19,8	400	2,8	4	125	0.18	0,27	28	95	•	•
836-10	5/8	16	0.91	23,0	350	2,4	5	150	0.19	0,28	18	61	•	•
836-12	3/4	19	1.03	26,2	300	2,1	6	180	0.24	0,36	18	61	•	•

## 804

### Dry Air/Hot Water

Available Cover Colors: **BLK**



**Application:** Phosphate ester, dry air and water.

**Inner Tube:** EPDM rubber.

**Reinforcement:** One fiber braid.

**Cover:** EPDM rubber.

**Temperature Range:**

**Air:** +158°F (+70°C)

**Phosphate ester:** +176°F  
(+80°C) **Water:** +200°F (+93°C).

**Fittings:** 82 Series - pg. B-180.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Field Attachable	
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	82 Series	
804-4	1/4	6,3	0.50	12,7	150	1,7	2-1/2	65	0.09	0,13	15	51	•	
804-6	3/8	10	0.63	15,9	150	1,7	3	75	0.11	0,16	15	51	•	
804-8	1/2	12,5	0.78	19,8	150	1,7	5	130	0.18	0,27	15	51	•	
804-10	5/8	16	0.91	23,0	150	1,0	6	150	0.19	0,28	15	51	•	
804-12	3/4	19	1.03	26,2	150	1,7	7	180	0.24	0,36	15	51	•	

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- Push-Lok is not recommended for any fuel, refrigerant, or for use in air conditioners and heat pump applications.
- Push-Lok is not recommended for applications where extreme pulsation is encountered.
- See Section B for Assembly Instructions.
- Temperature Range of other media listed in Section E.

PUSH-LOK®

## 821FR, 821 Multipurpose

A

**Application:** Pneumatic, petroleum base hydraulic fluid, lubricating oils and antifreeze solutions.

**Inner Tube:** PKR®.

**Reinforcement:** One fiber braid.

**Cover:** Fire resistant fiber braid.

**Hose cover colors include:** White, Brown, Blue, Green, and Black.

**Temperature Range:**

**Air:** +212°F (+100°C)

**Water:** +185°F (+85°C)

**Oil:** -40°F to +212°F  
(-40°C to +100°C).

**Fittings:** 82 Series - pg. B-180.

## 821FR

Multipurpose – Fire-Resistant Cover

Available Cover Colors: WHT BRN BLU GRN BLK



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

## 821

Multipurpose – Higher Pressures

Available Cover Colors: BLK



**Application:** Pneumatic, petroleum base hydraulic fluid, lubricating oils and antifreeze solutions.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** One fiber braid.

**Cover:** Fiber braid.

**Temperature Range:**

**Air:** +158°F (+70°C)

**Water:** +185°F (+85°C)

**Oil:** -40°F to +212°F  
(-40°C to +100°C).

**Fittings:** 82 Series - pg. B-180.

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

- Field Attachable Assembly Instructions are in Section B with each Fittings Series.
- Push-Lok is not recommended for any fuel, refrigerant, or for use in air conditioners and heat pump applications.
- Push-Lok is not recommended for applications where extreme pulsation is encountered.
- See Section B for Assembly Instructions.
- Temperature Range of other media listed in Section E.

## PHOSPHATE-ESTER 304, 774, 424, F42



If getting aircraft into the air is your job, Parker's family of phosphate-ester compatible hoses is the choice for you. Our hose selection offers the industry's largest selection of low-, medium- and high-pressure hoses specifically designed to resist aggressive airline hydraulic fluids. Parker's phosphate-ester hose line, together with the proper EPDM O-ring face seal and 37° Flare fittings and pipe adapters, means your leak-free assemblies will be the last thing you'll need to worry about.



### 424 hose

- Up to 1000 psi
- Dimensionally conforms to SAE 100R1 Type AT specification
- Uses Parkrimp 43 Series fittings, providing the widest selection of end configurations available anywhere

### 304 hose

- Up to 5000 psi
- Dimensionally conforms to SAE 100R2 Type AT specification
- Uses Parkrimp 43 Series fittings, providing the widest selection of end configurations available anywhere

### 774 hose

- Up to 4000 psi
- Dimensionally conforms to SAE 100R12 and EN 856 Type R12 specifications
- Uses Parkrimp 71 Series fittings

### F42 hose

- 6000 psi maximum working pressure
- Compatible with phosphate ester based hydraulic fluids with a temperature range of -40°C to +80°C (-40°F to +176°F)
- Uses Parkrimp 70 / 79 Series fittings

## 424

### Hydraulic – Phosphate-Ester Base Fluids



**Application:** Phosphate-ester base hydraulic fluids.








**Inner Tube:** EPDM rubber.

**Reinforcement:** One braid steel wire.

**Cover:** EPDM rubber, green.

**Temperature Range:** -40°F to +176°F (-40°C to +80°C).

**Fittings:** 43 Series - pg. B-27.

# Part Number	 Hose I.D.		 Hose O.D.		 Working Pressure		 Minimum Bend Radius		 Weight		 Vacuum Rating		 Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	
424-16	1	25	1.40	36	1000	6,9	12	300	0.63	0,94	20	68	•
424-20	1-1/4	31,5	1.73	44	625	4,3	16-1/2	420	0.80	1,19	20	68	•
424-24	1-1/2	38	2.00	51	500	3,5	20	500	1.00	1,49	15	51	•
424-32	2	51	2.50	64	375	2,6	25	630	1.50	2,23	11	37	•

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



## 304

## Hydraulic – Phosphate-Ester Base Fluids



**Application:** Phosphate-ester base hydraulic fluids.

**Inner Tube:** EPDM rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** EPDM rubber, green.

**Temperature Range:** -40°F to +176°F (-40°C to +80°C).

**Fittings:** 43 Series - pg. B-27.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
304-4	1/4	6,3	0.59	15	5000	34,5	4	100	0.26	0,39	●
304-6	3/8	10	0.75	19	4000	27,5	5	130	0.37	0,55	●
304-8	1/2	12,5	0.88	22	3500	24	7	180	0.45	0,67	●
304-10	5/8	16	0.61	16	2750	19	8	200	0.53	0,79	●
304-12	3/4	19	1.16	29	2250	15,5	9-1/2	240	0.67	1,00	●
304-16	1	25	1.50	38	2000	13,8	12	300	1.00	1,49	●
304-20	1-1/4	31,5	1.86	47	1625	11,2	16-1/2	420	1.16	1,73	●
304-24	1-1/2	38	2.14	54	1250	8,6	20	500	1.44	2,14	●
304-32	2	51	2.64	67	1125	7,8	25	630	1.99	2,96	●

## 774

## Hydraulic – Phosphate-Ester Base Fluids



**Application:** Phosphate-ester base hydraulic fluids.

**Inner Tube:** EPDM rubber.

**Reinforcement:** Four spiral steel wire.

**Cover:** EPDM rubber, green.

**Temperature Range:** -40°F to +176°F (-40°C to +80°C).

**Fittings:** 71 Series - pg. B-71.

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

## F42

## Hydraulic – Phosphate-Ester Base Fluids



**Application:** Phosphate-ester base hydraulic fluids.

**Inner Tube:** EPDM rubber.

**Reinforcement:** Four or six-spiral steel wire.

**Cover:** EPDM rubber, green.

**Temperature Range:** -40°F to +176°F (-40°C to +80°C).

**Fittings:** 70 Series - pg. B-61.  
79 Series - pg. B-121.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 70 Series	Parkrimp 79 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
F42-8	1/2	12,5	0.97	25,0	6000	42,0	8.0	200	0.56	0,83	●	
F42-12	3/4	19	1.26	31,9	6000	42,0	10.5	265	1.03	1,53		●
F42-16	1	25	1.52	38,5	6000	42,0	13.0	330	1.40	2,08		●
F42-20	1-1/4	31,5	1.97	50	6000	42,0	17.5	445	2.66	3,96		●

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## LOW TEMP

## 301LT, 772LT, 792LT



In extremely cold and usually remote areas, a hose burst or leak in a critical application can cause expensive downtime and possible environmental issues. Selecting the right hose for dependable, long-life performance in these applications is essential.

Parker's family of low-temperature hoses are designed specifically to excel in the brutal operating conditions of extreme cold!

- Delivers superior performance in extreme cold conditions
- Rated as low as -70°F (-57°C)
- The choice for heavy construction equipment, side booms, mining equipment, mobile equipment, arctic oil field, snow grooming equipment, snow making machinery and cold storage applications
- These No-Skive hoses use Parker's standard 43, 71 and 79 Series fittings and easy-to-use Parkrimp style crimping system



## 301LT

## Low-Temperature NO-SKIVE

SAE 100R2 TYPE A, J1942 / USCG HF / DNV / ABS



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** PKR Rubber.

**Temperature Range:** -67°F to +212°F (-55°C to +100°C).

**Fittings:** 43 Series - pg. B-27.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
301LT-4	1/4	6,3	0.59	15	5000	35,0	4	100	0.26	0,39	●
301LT-6	3/8	10	0.75	19	4000	28,0	5	130	0.37	0,55	●
301LT-8	1/2	12,5	0.88	22	3500	24,5	7	180	0.45	0,67	●
301LT-10	5/8	16	1.00	25	2750	19,2	8	200	0.52	0,77	●
301LT-12	3/4	19	1.16	29	2250	15,7	9-1/2	240	0.67	1,00	●
301LT-16	1	25	1.50	38	2000	14,0	12	300	1.00	1,49	●

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



## 772LT

### Low-Temperature NO-SKIVE

SAE / ISO – Exceeds SAE 100R12 / ISO 3862-1 Type R12 / EN 856 Type R12



**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** PKR Rubber.

**Temperature Range:** -70°F to +212°F (-57°C to +100°C).

**Fittings:** 79 Series - pg. B-121.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 79 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
772LT-8	1/2	12,5	0.94	24	4000	28,0	7	180	0.62	0,93	●
772LT-10	5/8	16	1.08	27	4000	28,0	8	200	0.74	1,10	●
772LT-12	3/4	19	1.21	31	4000	28,0	9-1/2	240	0.94	1,40	●
772LT-16	1	25	1.50	38	4000	28,0	12	300	1.34	1,99	●
772LT-20	1-1/4	31,5	1.84	46	3000	21,0	16-1/2	420	1.74	2,59	●
772LT-24	1-1/2	38	2.07	53	2500	17,5	20	500	2.01	2,99	●

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** PKR Rubber.

**Temperature Range:** -70°F to +212°F (-57°C to +100°C).

**Fittings:** 79 Series - pg. B-121.

## 792LT

### Low-Temperature NO-SKIVE

SAE / ISO – Exceeds SAE 100R12 / ISO 3862-1 Type R12 / EN



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 79 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
792LT-20	1-1/4	31,5	1.97	50	6000	42,0	17-1/2	445	2.48	3,69	●
792LT-24	1-1/2	38	2.22	57	6000	42,0	20-3/4	530	3.22	4,79	●

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## TRANSPORTATION 293, 213, 266



Parker's transportation hose selection has all your vehicle and equipment applications covered – with industry-leading performance and value you can count on. Meeting or exceeding specifications, Parker's offerings are available in the sizes, pressure ratings, special designs and long-lasting durability your hydraulic or pneumatic systems demand.



### 293

#### Transportation – Air Brake Hose

SAE J1402 AI / D.O.T. FMVSS 106 AI-AIR BRAKE



**Application:** Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions.

**Inner Tube:** PKR®.

**Reinforcement:** One fiber braid.

**Cover:** Abrasion resistant nylon fiber braid.

**Temperature Range:** -58°F to +302°F (-50°C to +150°C).

**Fittings:** 26 Series - pg. B-9.  
21 Series - pg. B-151.  
23 Series - pg. B-163.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa		
293-4	3/16	5	0.49	12,5	500	3,5	1/2	15	0.10	0,15	28	95	•	•
293-6	5/16	8	0.62	15,7	500	3,5	1	25	0.15	0,22	28	95	•	•
293-8	13/32	10	0.74	18,7	500	3,5	1-1/2	40	0.18	0,27	28	95	•	•
293-10	1/2	12,5	0.83	21,1	450	3,1	2	50	0.20	0,30	28	95	•	•
293-12	5/8	16	0.96	24,3	450	3,1	2-1/2	65	0.22	0,33	28	95	•	•
293-16	7/8	22	1.21	30,6	450	3,1	3-1/4	80	0.25	0,37	20	68	•	•

- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



## TRANSPORTATION

A

## 213

## Transportation

SAE J1402 AI / D.O.T. FMVSS 106 AI-AIR BRAKE



<b>Application:</b> Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions.	
<b>Inner Tube:</b> PKR®.	
<b>Reinforcement:</b> One fiber braid and one steel braid.	
<b>Cover:</b> Fiber braid.	
<b>Temperature Range:</b> -50°F to +302°F (-45°C to +150°C).	
<b>Fittings:</b> 26 Series - pg. B-9. 21 Series - pg. B-151. 23 Series - pg. B-163.	

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	26 Series	21/23 Series
213-4	3/16	5	0.49	12,5	2000	14	3/4	20	0.12	0,18	28	95	●	●
213-5	1/4	6,3	0.55	14	1500	10,5	1	25	0.14	0,21	28	95	●	●
213-6	5/16	8	0.62	16	1500	10,5	1-1/4	30	0.17	0,25	28	95	●	●
213-8	13/32	10	0.74	19	1250	8,7	1-3/4	45	0.20	0,30	28	95	●	●
213-10	1/2	12,5	0.83	21	1000	7	2-1/4	55	0.22	0,33	28	95	●	●
213-12	5/8	16	0.96	24	750	5,2	2-3/4	70	0.24	0,36	28	95	●	●
213-16	7/8	22	1.21	31	400	2,8	3-1/2	90	0.30	0,45	20	68	●	●
213-20	1-1/8	29	1.49	38	300	2,1	4-1/2	115	0.44	0,65	20	68	●	●
213-24	1-3/8	35	1.73	44	300	2,1	7-1/2	190	0.52	0,77	15	51	●	●
213-32	1-13/16	46	2.14	54	200	1,4	14	355	0.67	1,00	11	37	●	●
213-40	2-3/8	61	2.88	73	175	1,2	24	610	1.31	1,95	11	64	●	●

NOTE: Due to fitting size, this is a factory crimp only.

## 266

## Transportation

SAE J1402 AII / D.O.T. FMVSS 106 AII-AIR BRAKE



<b>Application:</b> Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions.	
<b>Inner Tube:</b> PKR®.	
<b>Reinforcement:</b> One fiber braid and one steel braid.	
<b>Cover:</b> Fiber braid.	
<b>Temperature Range:</b> -55°F to +302°F (-48°C to +150°C).	
<b>Fittings:</b> 26 Series - pg. 9. 20 Series - pg. B-141. 22 Series - pg. B-159.	

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	26 Series	20/22 Series
266-4	3/16	5	0.52	13,2	2000	14	3/4	20	0.15	0,22	28	95	●	●
266-5	1/4	6,3	0.58	14,8	1500	10,5	1	25	0.16	0,24	28	95	●	●
266-6	5/16	8	0.68	17,2	1500	10,5	1-1/4	30	0.23	0,34	28	95	●	●
266-8	13/32	10	0.77	19,5	1250	8,7	1-3/4	45	0.26	0,39	28	95	●	●
266-10	1/2	12,5	0.92	23,4	1250	8,7	2-1/4	55	0.38	0,56	28	95	●	●
266-12	5/8	16	1.08	27,4	750	5,2	2-3/4	70	0.42	0,63	20	68	●	●
266-16	7/8	22	1.24	31,4	400	2,8	3-1/2	90	0.48	0,71	15	51	●	●
266-20	1-1/8	29	1.50	38,4	300	2,1	4-1/2	115	0.51	0,76	15	51	●	●
266-24	1-3/8	35	1.75	44,5	250	1,7	5-1/2	140	0.68	1,01	11	37	●	●

- See page E-5 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.
- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## TRANSPORTATION

## 201, 206

## 201

## Transportation

SAE 100R5 SAE J1402 AII / D.O.T. FMVSS 106 AII-AIR BRAKE



**Application:** Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** One fiber braid and one steel braid.

**Cover:** Fiber braid.

**Temperature Range:** -40°F to +302°F (-40°C to +150°C).

**Fittings:** 26 Series - pg. B-9.  
20 Series - pg. B-141.  
22 Series - pg. B-159.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa		
201-4	3/16	5	0.52	13	3000	21	3	75	0.15	0,22	28	95	•	•
201-5	1/4	6,3	0.58	15	3000	21	3-3/8	85	0.18	0,27	28	95	•	•
201-6	5/16	8	0.68	17	2250	15,7	4	100	0.23	0,34	28	95	•	•
201-8	13/32	10	0.77	20	2000	14	4-1/2	115	0.27	0,40	28	95	•	•
201-10	1/2	12,5	0.92	23	1750	12,2	5-1/2	140	0.37	0,55	28	95	•	•
201-12	5/8	16	1.08	27	1500	10,5	6-1/2	165	0.40	0,60	28	95	•	•
201-16	7/8	22	1.23	31	800	5,6	7-3/8	185	0.46	0,68	20	68	•	•
201-20	1-1/8	29	1.50	38	625	4,3	9	230	0.51	0,76	20	68	•	•
201-24	1-3/8	35	1.75	44	500	3,5	10-1/2	265	0.68	1,01	15	51	•	•
201-32	1-13/16	46	2.22	56	350	2,4	13-1/4	335	0.89	1,32	11	37	•	•
201-40	2-3/8	60	2.88	73	350	2,4	24	610	1.31	1,95	11	37	•	•
201-48	3	76	3.56	90	200	1,4	33	840	2.09	3,11	11	37	•	•

## 206

## Transportation

SAE 100R5 SAE J1402 AII / D.O.T. FMVSS 106 AII-AIR BRAKE



**Application:** Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions.

**Inner Tube:** PKR®.

**Reinforcement:** One fiber braid and one steel braid.

**Cover:** Fiber braid, blue.

**Temperature Range:** -55°F to +302°F (-48°C to +150°C).

**Fittings:** 26 Series - pg. B-9.  
20 Series - pg. B-141.  
22 Series - pg. B-159.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa		
206-4	3/16	5	0.52	13	3000	21	3	75	0.15	0,22	28	95	•	•
206-5	1/4	6,3	0.58	15	3000	21	3-3/8	85	0.18	0,27	28	95	•	•
206-6	5/16	8	0.68	17	2250	15,7	3-1/2	90	0.23	0,34	28	95	•	•
206-8	13/32	10	0.77	20	2000	14	3-1/2	90	0.27	0,40	28	95	•	•
206-10	1/2	12,5	0.92	23	1750	12,2	4	100	0.37	0,55	28	95	•	•
206-12	5/8	16	1.08	27	1500	10,5	4	100	0.40	0,60	28	95	•	•
206-16	7/8	22	1.23	31	800	5,6	4	100	0.46	0,68	20	68	•	•
206-20	1-1/8	29	1.50	38	625	4,3	5-1/2	140	0.51	0,76	20	68	•	•
206-24	1-3/8	35	1.75	44	500	3,5	7-1/2	190	0.68	1,01	15	51	•	•
206-32	1-13/16	46	2.22	56	350	2,4	13-1/4	335	0.89	1,32	11	37	•	•
206-40	2-3/8	60	2.88	73	350	2,4	24	610	1.31	1,95	11	37	•	•

- See page E-5 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.
- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

TRANSPORTATION      611HT

A



611HT  
Transportation – Air Brake Hose  
SAE J517 / 100R6 EN 854 TYPE R6



**Application:** Petroleum base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions.








**Inner Tube:** PKR®.

**Reinforcement:** One fiber braid.

**Cover:** Synthetic rubber abrasion resistant, MSHA accepted.

**Temperature Range:** -55°F to +302°F (-48°C to +150°C).

**Fittings:** 26 Series - pg. B-9.

# Part Number	 Hose I.D.		 Hose O.D.		 Working Pressure		 Minimum Bend Radius		 Weight		 Vacuum Rating		 Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	
611HT-4	1/4	6,2	0.47	11,9	400	2,8	2 1/2	65	0.09	0,13	28	95	●
611HT-6	3/8	9,3	0.59	15,1	400	2,8	3	75	0.11	0,16	28	95	●
611HT-8	1/2	12,5	0.75	19,0	400	2,8	4	100	0.18	0,27	28	95	●
611HT-10	5/8	15,7	0.88	22,2	350	2,4	5	125	0.19	0,28	18	61	●
611HT-12	3/4	18,8	1.00	25,4	300	2,1	6	150	0.254	0,36	18	61	●

- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

TRANSPORTATION

271 Air Brake



271

Transportation – Air Brake Hose

SAE J1402 A - AIR BRAKE



**Application:** Air brake systems.







**Inner Tube:** Synthetic rubber.

**Reinforcement:** One or more fiber braid.

**Cover:** Synthetic Rubber.

**Temperature Range:** -50°F to +212°F (-46°C to +100°C).

**Fittings:** 25 Series - pg. B-5.

# Part Number											
	Hose I.D. inch	mm	Hose O.D. inch	mm	Working Pressure psi	MPa	Minimum Bend Radius inch	mm	Weight lbs/ft	kg/m	Parkrimp 25 Series
271-6	3/8	10	0.75	19	225	1,6	1-3/4	45	0.20	0,30	•
271-8	1/2	12,5	0.88	22	225	1,6	2	50	0.26	0,39	•

• See page E-5 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.

• See Section B for Field Attachable Assembly Instructions.

• See Section C for Parkrimp Assembly Instructions.

• Temperature Range of other media listed in Section E.



ALTERNATIVE / MARINE

SS23CG



If you make or maintain LPG / CNG powered equipment, SS23CG hose is your choice for gas permeation resistance and reliable performance. SS23CG exceeds Canadian Gas Association specification CAN / CGA-8.1-M86 Type III which means it meets permeation requirements of 1,6 g/m<sup>2</sup>-day. You can specify it with confidence – anywhere.

- Meets ECE R110/R67 specification
- Meets UL21, 588, 569 specifications



Embossed layline per industry standard







SS23CG

Transportation – Compressed Natural Gas and Liquefied Petroleum Gas

CGA TYPE III, ECE110 CLASS 1 / UL STANDARD 21 LPG



**Application:** Liquefied petroleum gas (LPG), Compressed natural gas (CNG).  
**Inner Tube:** Synthetic rubber.  
**Reinforcement:** One steel braid.  
**Cover:** Synthetic rubber.  
**Temperature Range:** -40°F to +250°F (-40°C to +121°C).  
**Fittings:** 26 Series - pg. B-9.

# Part Number											
	Hose I.D. inch	mm	Hose O.D. inch	mm	psi	MPa	Minimum Bend Radius inch	mm	Weight lbs/ft	kg/m	
SS23CG-6	5/16	8,0	0.68	17,2	425	3,0	4	100	0.16	0,24	•
SS23CG-8	13/32	10,0	0.77	19,5	425	3,0	4-1/2	115	0.17	0,25	•
SS23CG-10	1/2	12,5	0.92	23,4	425	3,0	5-1/2	140	0.28	0,42	•
SS23CG-12	5/8	15,9	1.05	26,8	425	3,0	6-1/2	165	0.30	0,45	•

FACTORY MADE HOSE ASSEMBLIES ONLY. Contact Hose Products Division for more information.

- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## ALTERNATIVE / MARINE

## SS25UL



- Low-pressure service with liquefied petroleum gas
- UL Standard 21 certification
- Oil and LPG resistant synthetic fiber cover
- Compatible with 26 Series Parkrimp style fittings



## SS25UL

### Transportation – Liquefied Petroleum Gas

AGA-AS / NZS 1869D / UL STANDARD 21



**Application:** Liquefied petroleum gas (LPG).








**Inner Tube:** Synthetic rubber.

**Reinforcement:** One fiber braid and one stainless steel wire braid.

**Cover:** Fiber braid.

**Temperature Range:** -40°F to +250°F (-40°C to +121°C).

**Fittings:** 26 Series - pg. B-9.  
20 Series - pg. B-141.  
22 Series - pg. B-159.

# Part Number														
	Hose I.D. inch	mm	Hose O.D. inch	mm	Working Pressure psi	MPa	Minimum Bend Radius inch	mm	Weight lbs/ft	kg/m	Field Attachable 20/22 Series		Parkrimp 26 Series	
SS25UL-4	3/16	5	0.52	13,2	350	2,4	0.75	20	0.11	0,16	•		•	
SS25UL-5	1/4	6,3	0.58	14,8	350	2,4	1	25	0.13	0,19	•		•	
SS25UL-6	5/16	8	0.68	17,2	350	2,4	1-1/4	30	0.18	0,27	•		•	
SS25UL-8	13/32	10	0.77	19,5	350	2,4	1-3/4	45	0.21	0,31	•		•	
SS25UL-10	1/2	12,5	0.92	23,4	350	2,4	2-1/4	55	0.29	0,43	•		•	
SS25UL-12	5/8	16	1.08	27,4	350	2,4	2-3/4	70	0.37	0,55	•		•	

- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

ALTERNATIVE / MARINE

221FR



A fire-resistant hose for gasoline or diesel fuel systems on recreational or commercial marine vessels.

- ISO 7840 and USCG approved
- Marine fuel and engine hose



221FR

Transportation – Marine Fuel and Engine Hose

SAE J1527 TYPE A CLASS I, USCG SAE J1942 /  
ISO 7840 / USCG H, HF / GERMAN LLOYD / LLOYDS REGISTER / DNV / ABS



**Application:** Gasoline, ethanol blends, diesel fuels, petroleum base hydraulic fluid, and lubricating oils.









**Inner Tube:** Synthetic rubber.

**Reinforcement:** One braid steel wire.

**Cover:** Synthetic rubber, blue, MSHA accepted.

**Temperature Range:** -4°F to +212°F (-20°C to +100°C).

**Fittings:** 26 Series - pg. B-9.  
20 Series - pg. B-141.  
22 Series - pg. B-159.

# Part Number	 Hose I.D.		 Hose O.D.		 Working Pressure		 Minimum Bend Radius		 Weight		 Vacuum Rating		 Parkrimp	 Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	26 Series	20/22 Series
221FR-5	1/4	6,3	0.58	15	500	3,5	1	25	0.19	0,28	24	81	•	•
221FR-6	5/16	8	0.68	17	500	3,5	1-1/4	30	0.23	0,34	24	81	•	•
221FR-8	13/32	10	0.77	20	500	3,5	1-3/4	45	0.28	0,42	24	81	•	•
221FR-10	1/2	12,5	0.92	23	500	3,5	2-1/4	55	0.39	0,58	20	68	•	•
221FR-12	5/8	16	1.08	27	500	3,5	2-3/4	70	0.41	0,61	20	68	•	•
221FR-16	7/8	22	1.23	31	500	3,5	3-1/2	90	0.47	0,70	20	68	•	•

ISO 7840 with 26 Series fittings ONLY.

- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## REFRIGERANT

## 285



Designed specifically for the rigorous requirements of bus and transit applications, Parker's refrigerant hose exceeds all requirements.

- 285 and 244HT combine to offer a wide range of sizes
- Air conditioning hose
- Excellent effusion rate
- Long service life
- Resists moisture ingress
- Parkrimp compatible

## 285

## Refrigerant

SAE J2064 TYPE C



**Application:** Refrigerant 134a.  
**Inner Tube:** Synthetic rubber with nylon barrier.  
**Reinforcement:** One fiber braid.  
**Cover:** Synthetic rubber.  
**Temperature Range:** -22°F to +257°F (-30°C to +125°C).  
**Fittings:** 26 Series - pg. B-9.  
 21 Series - pg. B-151.  
 23 Series - pg. B-163.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series	21/23 Series
285-4	3/16	5	0.49	11,7	500	3,4	1	25	0.09	0,14	28	95	•	•
285-6	5/16	8	0.62	15,7	500	3,4	1-1/2	40	0.12	0,18	28	95	•	•
285-8	13/32	10	0.74	18,8	500	3,4	2	50	0.17	0,25	28	95	•	•
285-10	1/2	12,5	0.83	21,1	500	3,4	2-1/2	65	0.18	0,27	28	95	•	•
285-12	5/8	16	0.96	24,4	500	3,4	3	75	0.23	0,34	28	95	•	•

- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



REFRIGERANT

244



Designed specifically for the rigorous requirements of bus and transit applications, Parker's refrigerant hose exceeds all requirements.

- 244HT and 285 combine to offer a wide range of sizes
- Air conditioning hose
- Excellent effusion rate
- Long service life
- Resists moisture ingress
- Parkrimp compatible








244

Refrigerant

SAE J2064 TYPE B, CLASS I



**Application:** Refrigerant 134a.  
**Inner Tube:** Butyl rubber.  
**Reinforcement:** One braid steel wire.  
**Cover:** Fiber braid.  
**Temperature Range:** -22°F to +257°F (-30°C to +125°C).  
**Fittings:** 26 Series - pg. B-9.

# Part Number													 Parkrimp
	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	
244-16	7/8	22	1.23	31	500	3,5	7-1/2	190	0.51	0,76	28	95	●
244-20	1-1/8	29	1.50	38	500	3,5	9	230	0.56	0,83	28	95	●
244-24	1-3/8	35	1.75	44	350	2,4	10-1/2	270	0.62	0,92	28	95	●

- See Section B for Field Attachable Assembly Instructions.
- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

## NOTES



Parkrimp (Crimp) Series  
Field Attachable Series

# Fittings

B



ENGINEERING YOUR SUCCESS.

**Parkrimp (crimp) Series of Fittings**

25 Series .....	B-5
26 Series .....	B-9
43 Series .....	B-27
70 Series .....	B-61
71 Series .....	B-71
73 Series .....	B-85
76 Series .....	B-94
77 Series .....	B-96
78 Series .....	B-108
S6 Series .....	B-109
79 Series .....	B-121
HY Series .....	B-126
81 Series .....	B-197

**Field Attachable Series of Fittings**

20 Series .....	B-141
21 Series .....	B-151
22 Series .....	B-159
23 Series .....	B-163
30 Series .....	B-167
42 Series .....	B-173
82 Series .....	B-180
88 Series .....	B-197
TB Series .....	B-203



## How to Read the Fittings Section

With more than 750 end configurations, Parker's brass, stainless steel and Chromium-6 free plated steel fittings include O-ring face seal, flare, straight thread, pipe and metric designs, in both crimp and field attachable styles. Along with Parker hose, all fittings have been tested and approved, and meet stringent industry standards worldwide. Fitting page content is defined by the information shown below. Please take a moment and review.

## How to Select Parkrimp Hose Fittings

Example: 1JC43-12-8C

- 1JC43-12-8C** - Fitting (1=Crimp, 2=Field attachable, 3=Push-Lok, Blank=Nipple with clamp)
- 1JC43-12-8C** - End Connection
- 1JC43-12-8C** - Fitting Series
- 1JC43-12-8C** - Size of Fitting End Connection
- 1JC43-12-8C** - Hose Size
- 1JC43-12-8C** - Fitting Material
- No Suffix = Steel
- B = Brass
- C = 316 Stainless Steel
- BA = Brass Nipple with Steel Nut and Socket
- BS = Brass Nipple with Brass nut and Socket
- SM = Metric Index

**Hose Inner Diameter**  
Measured in 1/16 inch increments identified by use of a "dash"(-) numbering system. i.e., 4/16" = 1/4" = -4.

**"A" Dimension**  
Overall Length

**Hex size**  
Use to determine the wrench size

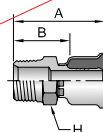
**"B" Dimension**  
(Cutoff Allowance) Dimension used to determine cut length (C.L.) of hose when making a hose assembly

**Fitting Information**  
Base part number and end connection description

Catalog 4400 US Pipe / JIC									
26 Series Fittings <small>Use with 201, 206, 213, 221FR, 225, 244, 266, 285, 293, SS23CG hoses.</small>									
<b>10126</b> Male NPTF Pipe - Rigid - Straight									
# Part Number	Thread inch	Hose I.D. inch	A inch mm		H inch mm		B inch mm		Additional Material Brass
10126-2-4	1/8x27	3/16	1.65	42	7/16	0.78	0.78	20	
10126-4-4	1/4x18	3/16	1.88	48	9/16	1.01	1.01	26	
10126-4-5	1/4x18	1/4	1.88	48	9/16	1.01	1.01	26	
10126-4-6	1/4x18	5/16	1.88	48	3/4	1.02	1.02	26	•
10126-6-6	3/8x18	5/16	1.89	48	11/16	1.03	1.03	26	•
10126-6-8	3/8x18	13/32	1.89	48	11/16	1.03	1.03	26	•
10126-8-8	1/2x14	13/32	2.14	54	7/8	1.28	1.28	33	•
10126-8-10	1/2x14	1/2	2.25	57	7/8	1.30	1.30	33	•
10126-12-12	3/4x14	5/8	2.31	59	1-1/16	1.37	1.37	35	•
10126-16-16	1x11-1/2	7/8	2.61	66	1-3/8	1.57	1.57	40	
10126-20-20	1-1/4x11-1/2	1-1/8	2.83	72	1-3/4	1.77	1.77	45	
10126-24-24	1-1/2x11-1/2	1-3/8	3.01	76	2	1.93	1.93	49	
10126-32-32	2x11-1/2	1-13/16	3.44	87	2-1/2	2.18	2.18	55	

Lists approved hoses for fitting series

Standard material for fittings is steel. For additional material, refer to column



**A**  
Fittings 26 Series  
**B**

Indicates Fitting Section

Continued on next page

# How to select hose fittings

To make ordering Parker products easier, we have outlined the nomenclature for hose and fittings on this page. For information on ordering hose assemblies, see Section A.

## How to Select Hose

Example: 451TC-8

- 451TC-8 - Hose type  
 451TC-8 - Indicates the special feature of the hose  
 (in this case, "Tough Cover")  
 451TC-8 - Hose inside diameter dash size (in this case, 8/16" or 1/2")



## How to Select Parkrimp Hose Fittings

Example: 1JC43-12-8C

- 1JC43-12-8C - Fitting (1 = Crimp, 2 = Field Attachable, 3 = Push-Lok, Blank = Nipple with clamp or shell)  
 1JC43-12-8C - End connection (In this case, a female Seal-Lok – swivel – straight)  
 1JC43-12-8C - Fitting series  
 1JC43-12-8C - Size of fitting end connection (In this case, 12/16" or 3/4")  
 1JC43-12-8C - Hose size (In this case, 8/16" or 1/2")  
 1JC43-12-8C - Fitting material:  
 No Suffix = Steel  
 B = Brass  
 C = 316 Stainless Steel  
 BA = Brass Nipple with Steel Nut and Socket  
 BS = Brass Nipple with Brass Nut and Socket  
 SM = Metric Hex



## How to Select Two-Piece Field Attachable Fittings

When selecting a two-piece field attachable fitting, the fitting part number (found in Section B of this catalog) needs to be broken down into two distinct numbers for the nipple and the socket.

Example: 20120-16-16B

### Socket Part Number

Example: 20020-16B

- 20020-16B - Fitting (1 = Crimp, 2 = Field Attachable, 3 = Push-Lok, Blank = Nipple with clamp or shell)  
 20020-16B - End connection ("00" represents that it is a socket)  
 20020-16B - Fitting series  
 20020-16B - Hose size (In this case, 16/16" or 1")  
 20020-16B - Fitting material:  
 No Suffix = Steel  
 B = Brass  
 C = 316 Stainless Steel  
 BA = Brass Nipple with Steel Nut and Socket  
 BS = Brass Nipple with Brass Nut and Socket  
 SM = Metric Hex


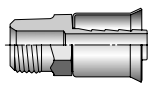
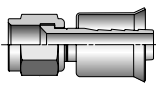
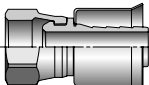
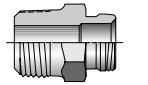


### Nipple Part Number

Example: 0120-16-16B

- 0120-16-16B - Fitting (1 = Crimp, 2 = Field Attachable, 3 = Push-Lok, Blank = Nipple with clamp or shell)  
 0120-16-16B - End connection (In this case, a male NPTF Pipe – rigid – straight)  
 0120-16-16B - Fitting series  
 0120-16-16B - Size of fitting end connection (In this case, 16/16" or 1")  
 0120-16-16B - Hose size (In this case, 16/16" or 1")  
 0120-16-16B - Fitting material:  
 No Suffix = Steel  
 B = Brass  
 C = 316 Stainless Steel  
 BA = Brass Nipple with Steel Nut and Socket  
 BS = Brass Nipple with Brass Nut and Socket  
 SM = Metric Hex



 <p><b>Flange</b></p>	<p>10125      B-6</p>  <p><i>Rigid</i></p>	<p>10825      B-6</p>  <p><i>Swivel</i></p>	<p>17B25      B-6</p>  <p><i>Swivel</i></p>	<p>017M      B-6</p>  <p><i>Swivel</i></p>	<p>B-7</p> <p><i>Assembly Instructions</i></p>
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A

B

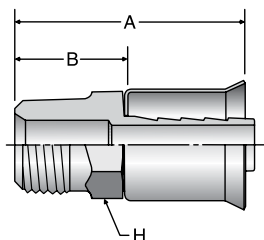
C

D

E

## 10125

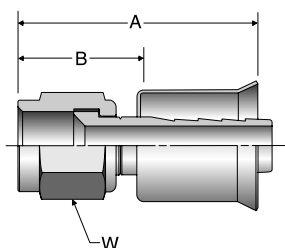
### Male NPTF Pipe - Rigid



#							
Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	inch	inch	mm
10125-6-6B-VS	3/8X18	3/8	1.72	44	11/16	1.00	25
10125-6-8B-VS	3/8X18	1/2	1.72	44	11/16	1.00	25
10125-8-6B-VS	1/2X14	3/8	2.05	52	7/8	1.33	34
10125-8-8B-VS	1/2X14	1/2	2.05	52	7/8	1.33	34

## 10825

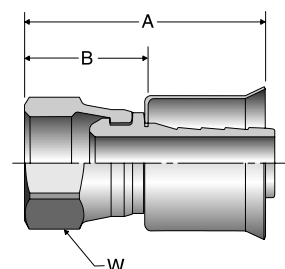
### Female SAE 45° - Swivel



#							
Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	inch	inch	mm
10825-6-6B	5/8X18	3/8	1.82	46	3/4	1.10	28
10825-8-6B	3/4X16	3/8	1.80	46	7/8	1.08	27
10825-8-8B	3/4X16	1/2	1.95	50	7/8	1.22	31

## 17B25

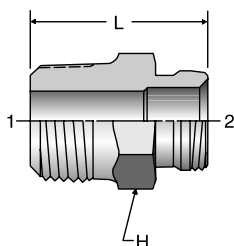
### Female Air Brake Jounce Line - Swivel - Straight



#							
Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	inch	inch	mm
17B25-8-6B	3/4X20	3/8	1.59	40	7/8	0.87	22
17B25-8-8B	3/4X20	1/2	1.59	40	7/8	0.87	22

## 017M

### Air Brake Adapter



#							
Part Number	Thread End 1 NPTF inch		Thread End 2 UNEFinch		L		H
					inch	mm	inch
017M-6-8B	6	3/8X18	8	3/4X20	1.13	29	3/4
017M-8-8B	8	1/2X14	8	3/4X20	1.33	34	7/8

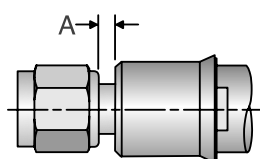


## Assembly Instructions

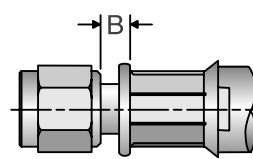
1. On the 08 end configurations only, the use of a mandrel is required. This mandrel is designed to set the proper gap between the nut and the shell. To match the correct fitting with the proper mandrel part number refer to the table below.



2. The assembly mandrels can be used with a common bench vise or on the TH2-7 push-on stand. Refer to Bulletin 4480-T13-USA for push-on stand instructions.
3. When using a common bench vise, place the mandrel in the vise, put the fitting on the mandrel (nut first) then push on the hose until it bottoms. Visually check the sight hole on the side of the shell to assure that the hose is fully inserted.
4. Remove mandrel from fitting and check for proper gap between nut and shell. (See table below).
5. Now crimp the fitting onto the hose. Refer to CrimpSource for correct crimp dies and crimping dimensions.
6. Check for proper gap between nut and shell after crimp. (See table below)



BEFORE CRIMP



AFTER CRIMP

NOTE: B dimension is measured from the back of the fully-seated nut to the start of the crimp length. The nut must be free to swivel after crimping of the shell.

Fitting Part Number	A Length		B Length		Required Assembly Mandrel
	mm	inch	mm	inch	
10625-6-6B	3.80	0.150	8.00	0.315	TH2-7M25-6
10825-6-6B	5.80	0.230	11.80	0.465	
10625-8-8B	3.80	0.150	8.00	0.315	TH2-7M25-8
10825-8-8B	5.80	0.230	11.80	0.465	

NOTE: The "Required Assembly Tool" must be used to assemble all fittings listed above.

7. For all other 25 series fittings, use of mandrel is not necessary. Push fitting onto hose until it bottoms. Visually check sight hole on the side of the shell to assure that the hose is fully inserted.

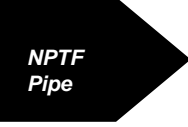
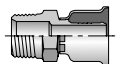

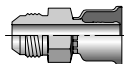
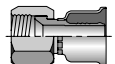
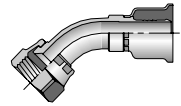
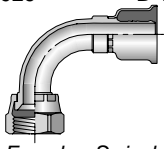
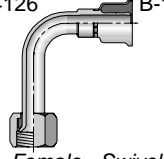

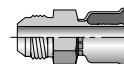
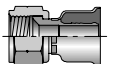
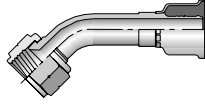
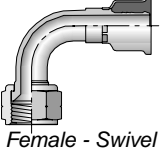

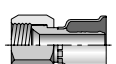

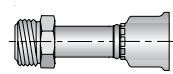
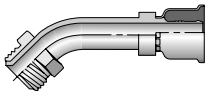
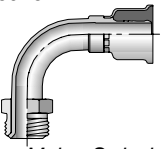

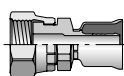
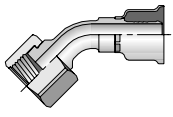
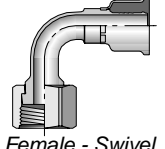

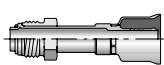
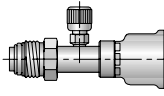
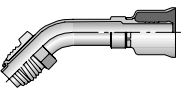
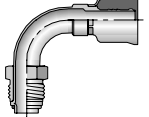
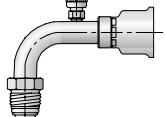
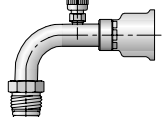
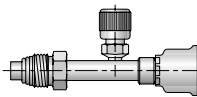
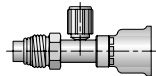
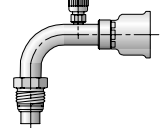
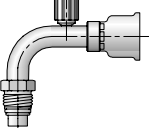
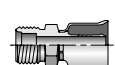
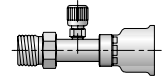
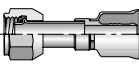
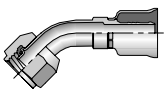
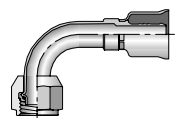
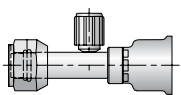
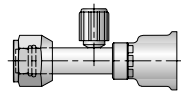
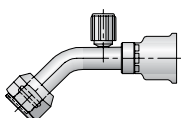
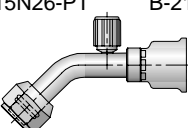
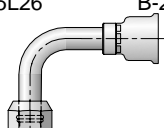
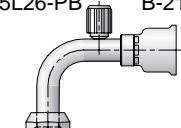
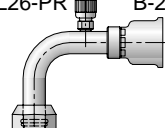
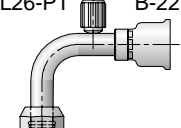
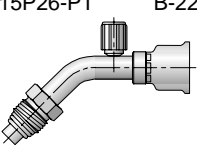
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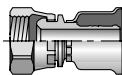

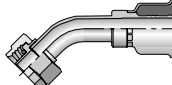
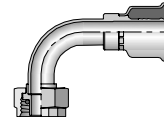
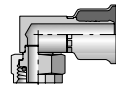
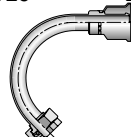
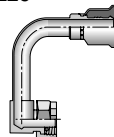

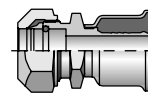
B

C

D

E

 <b>NPTF Pipe</b>	10126 B-11  <i>Male - Rigid</i>	 <b>JIC 37°</b>	10326 B-11  <i>Male - Rigid</i>	10626 B-12  <i>Female - Swivel</i>	13726 B-12  <i>Female - Swivel 45° Elbow - Short</i>
13926 B-12  <i>Female - Swivel 90° Elbow - Short</i>	14126 B-13  <i>Female - Swivel 90° Elbow - Long</i>	 <b>SAE 45°</b>	10426 B-13  <i>Male - Rigid</i>	10826 B-13  <i>Female - Swivel</i>	17726 B-13  <i>Female - Swivel 45° Elbow</i>
17926 B-14  <i>Female - Swivel 90° Elbow</i>	 <b>JIC 37°/ SAE 45° Dual Flare</b>	16826 B-14  <i>Female - Swivel</i>	 <b>Inverted Flare</b>	12826 B-14  <i>Male - Swivel</i>	16726 B-15  <i>Male - Swivel 45° Elbow</i>
16926 B-15  <i>Male - Swivel 90° Elbow</i>	 <b>Seal-Lok® (O-Ring Face Seal)</b>	1JC26 B-15  <i>Female - Swivel Short</i>	1J726 B-16  <i>Female - Swivel 45° Elbow</i>	1J926 B-16  <i>Female - Swivel 90° Elbow - Short</i>	 <b>Tube-O</b>
1S526 B-16  <i>Male - Swivel Short Pilot</i>	1S526-PR B-17  <i>Male - Swivel Short Pilot</i>	15R26 B-17  <i>Male - Swivel 45° Elbow - Short Pilot</i>	15K26 B-17  <i>Male - Swivel 90° Elbow - Short Pilot</i>	15K26-PB B-17  <i>Male - Swivel 90° Elbow - Short Pilot</i>	15K26-PR B-18  <i>Male - Swivel 90° Elbow - Short Pilot</i>
14526-PR B-18  <i>Male - Swivel Long Pilot</i>	14526-PT B-18  <i>Male - Swivel Long Pilot</i>	15M26-PR B-18  <i>Male - Swivel 90° Elbow - Long Pilot</i>	15M26-PT B-19  <i>Male - Swivel 90° Elbow - Long Pilot</i>	15G26 B-19  <i>Male - Rigid Internal - Long Pilot</i>	15G26-PR B-19  <i>Male - Rigid Internal - Long Pilot</i>
15S26 B-19  <i>Female - Swivel Short Pilot</i>	15H26 B-20  <i>Female - Swivel 45° Elbow - Short Pilot</i>	15T26 B-20  <i>Female - Swivel 90° Elbow - Short Pilot</i>	15926-PB B-20  <i>Female - Swivel Long Pilot</i>	15926-PT B-20  <i>Female - Swivel Long Pilot</i>	15N26-PB B-21  <i>Female - Swivel 45° Elbow - Long Pilot</i>
15N26-PT B-21  <i>Female - Swivel 45° Elbow - Long Pilot</i>	15L26 B-21  <i>Female - Swivel 90° Elbow - Long Pilot</i>	15L26-PB B-21  <i>Female - Swivel 90° Elbow - Long Pilot</i>	15L26-PR B-22  <i>Female - Swivel 90° Elbow - Long Pilot</i>	15L26-PT B-22  <i>Female - Swivel 90° Elbow - Long Pilot</i>	15P26-PT B-22  <i>Male - Swivel 45° Elbow - Long Pilot</i>

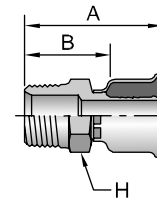
A	 <i>Air Brake Jounce Line</i>	17B26      B-22  <i>Female - Swivel</i>	 <i>Compressor</i>	15V26      B-23  <i>Female - Swivel 45° Elbow</i>	15W26      B-23  <i>Female - Swivel 90° Elbow</i>	15Z26      B-23  <i>Female - Swivel 90° Elbow - Block Type</i>
		1RV26      B-23  <i>Female - Swivel 135° Elbow</i>		1RZ26      B-24  <i>Female - Swivel 180° Elbow</i>	 <i>Refrigerant Tube Mender</i>	1T126      B-24  <i>Male (w/Nut &amp; Ferrule)</i>
B				1T126      B-25 <i>Fitting Assembly Instructions</i>		
C						
D						
E						



## 10126

### Male NPTF Pipe - Rigid

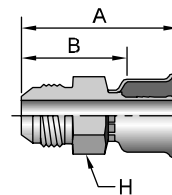
#	Thread	Hose I.D.	A		H		B		Additional Material Brass (B)
Part Number	inch	inch	inch	mm	inch	mm	inch	mm	
10126-2-4	1/8x27	3/16	1.65	42	7/16	0.78	0.78	20	
10126-4-4	1/4x18	3/16	1.88	48	9/16	1.01	1.01	26	
10126-4-5	1/4x18	1/4	1.88	48	9/16	1.01	1.01	26	
10126-4-6	1/4x18	5/16	1.88	48	3/4	1.02	1.02	26	•
10126-6-6	3/8x18	5/16	1.89	48	11/16	1.03	1.03	26	•
10126-6-8	3/8x18	13/32	1.89	48	11/16	1.03	1.03	26	•
10126-8-8	1/2x14	13/32	2.14	54	7/8	1.28	1.28	33	•
10126-8-10	1/2x14	1/2	2.25	57	7/8	1.30	1.30	33	•
10126-12-12	3/4x14	5/8	2.31	59	1-1/16	1.37	1.37	35	•
10126-16-16	1x11-1/2	7/8	2.61	66	1-3/8	1.57	1.57	40	
10126-20-20	1-1/4x11-1/2	1-1/8	2.83	72	1-3/4	1.77	1.77	45	
10126-24-24	1-1/2x11-1/2	1-3/8	3.01	76	2	1.93	1.93	49	
10126-32-32	2x11-1/2	1-13/16	3.44	87	2-1/2	2.18	2.18	55	



## 10326

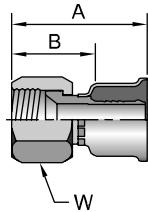
### Male JIC 37° - Rigid

#	Thread	Hose I.D.	A		H		B		Additional Material Brass (B)
Part Number	inch	inch	inch	mm	inch	mm	inch	mm	
10326-4-4	1/4	7/16x20	3/16	2.02	50	1/2	1.15	29	•
10326-6-6	3/8	9/16x18	5/16	2.12	54	3/4	1.26	32	•
10326-8-8	1/2	3/4x16	13/32	1.94	49	13/16	1.08	27	•
10326-10-10	5/8	7/8x14	1/2	2.49	64	15/16	1.54	39	•
10326-16-16	1	1-5/16x12	7/8	2.79	71	1-3/8	1.75	44	



## 10626

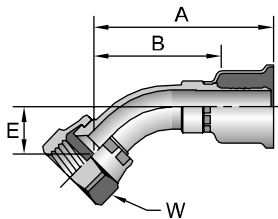
### Female JIC 37° - Swivel






# Part Number	Thread inch	Hose I.D. inch	A inch mm		W inch	B inch mm		Additional Material Brass (B)	
10626-6-6	3/8	9/16x18	5/16	1.81	45	11/16	0.95	23	•
10626-6-8	3/8	9/16x18	13/32	1.67	52	11/16	1.19	30	•
10626-12-12	3/4	1-1/16x12	5/8	2.29	58	1-1/4	1.35	34	•
10626-16-16	1	1-5/16x12	7/8	2.53	64	1-1/2	1.49	38	•
10626-20-20	1-1/4	1-5/8x12	1-1/8	2.56	65	2	1.50	38	•
10626-24-24	1-1/2	1-7/8x12	1-3/8	2.77	70	2-1/4	1.69	43	
10626-32-32	2	2-1/2x12	1-13/16	3.30	84	2-7/8	2.04	52	

## 13726

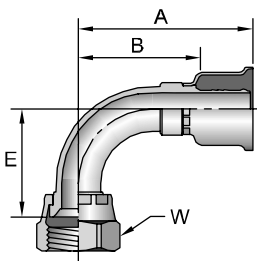
### Female JIC 37° - Swivel - 45° Elbow - Short Drop






# Part Number	 Thread inch		 Hose I.D. inch	A inch mm		E inch mm		 W inch	B inch mm	
13726-4-4	1/4	7/16x20	3/16	2.01	51	0.39	10	9/16	1.14	29
13726-6-6	3/8	9/16x18	5/16	2.72	69	0.43	11	11/16	1.86	47
13726-8-8	1/2	3/4x16	13/32	2.82	72	0.55	15	7/8	1.96	50
13726-10-10	5/8	7/8x14	1/2	2.96	75	0.63	16	1	2.01	51
13726-12-12	3/4	1-1/16x12	5/8	3.44	87	0.83	21	1-1/4	2.50	63
13726-16-16	1	1-5/16x12	7/8	3.34	85	0.90	23	1-1/2	2.30	58
13726-20-20	1-1/4	1-5/8x12	1-1/8	3.74	95	1.18	30	2	2.68	68
13726-24-24	1-1/2	1-7/8x12	1-3/8	3.92	100	1.16	29	2-1/4	2.84	72

## 13926




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

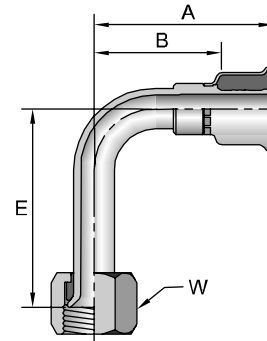


# Part Number				A		E			B	
	Thread inch		Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
13926-4-4	1/4	7/16x20	3/16	1.82	46	0.83	21	9/16	0.95	24
13926-6-6	3/8	9/16x18	5/16	2.15	55	0.91	23	11/16	1.29	33
13926-8-8	1/2	3/4x16	13/32	2.22	56	1.09	28	7/8	1.36	35
13926-10-10	5/8	7/8x14	1/2	2.23	57	1.26	32	1	1.28	33
13926-10-12	5/8	7/8x14	5/8	2.52	64	1.23	31	1	1.58	40
13926-12-12	3/4	1-1/16x12	5/8	2.28	58	1.82	46	1-1/4	1.30	34
13926-16-16	1	1-5/16x12	7/8	3.30	84	2.14	54	1-1/2	2.26	57
13926-20-20	1-1/4	1-5/8x12	1-1/8	3.60	91	2.57	65	2	2.53	65
13926-24-24	1-1/2	1-7/8x12	1-3/8	3.92	100	2.82	72	2-1/4	2.84	72

## 14126




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

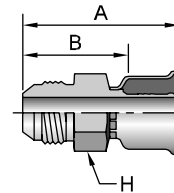
# Part Number	 Thread inch		 Hose I.D. inch	A inch mm		E inch mm		 W inch	B inch mm	
14126-4-4	1/4	7/16x20	1/4	2.05	52	1.81	46	9/16	1.18	30
14126-6-6	3/8	9/16x18	5/16	2.02	51	2.13	54	11/16	1.16	29
14126-8-8	1/2	3/4X16	13/32	2.35	60	2.43	62	7/8	1.49	38
14126-10-10	5/8	7/8x14	1/2	2.11	54	2.76	70	1	1.16	29
14126-16-16	1	1-5/16x12	7/8	3.17	81	4.33	110	1-1/2	2.13	54



## 10426




Male SAE 45° - Rigid

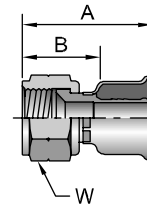
# Part Number	 Thread inch	 Hose I.D. inch	A		 H inch	B	
			inch	mm		inch	mm
10426-4-4	1/4 7/16x20	3/16	1.97	50	1/2	1.18	28
10426-6-6	3/8 5/8x18	5/16	2.04	52	11/16	1.18	30



## 10826




Female SAE 45° - Swivel

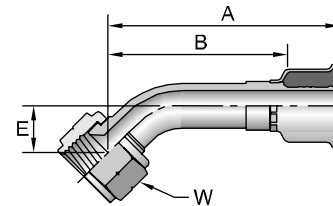
# Part Number	 Thread		 Hose I.D.	A		 W	B		Additional Material Brass (B)
	inch		inch	inch	mm	inch	inch	mm	
10826-6-6	3/8	5/8x18	5/16	1.84	47	3/4	0.98	25	●
10826-10-8	5/8	7/8x14	13/32	2.21	56	1	1.35	34	
10826-10-10	5/8	7/8x14	1/2	2.13	54	1	1.18	30	
10826-12-12	3/4	1-1/16x14	5/8	2.19	56	1-1/4	1.25	32	●



## 17726

Female SAE 45° - Swivel - 45° Elbow

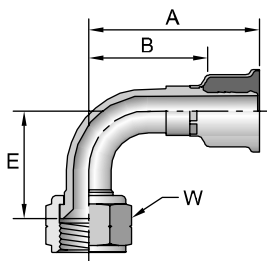
#										
Part Number	Thread		Hose I.D.	A		E		W	B	
	inch		inch	inch	mm	inch	mm	inch	inch	mm
17726-4-4	1/4	7/16x20	3/16	2.29	58	0.39	10	9/16	1.43	36
17726-6-6	3/8	5/8x18	5/16	2.72	69	0.43	11	11/16	1.86	47
17726-8-8	1/2	3/4x16	13/32	2.82	72	0.59	14	7/8	1.96	50
17726-10-10	5/8	7/8x14	1/2	2.96	75	0.63	16	1	2.01	51
17726-12-12	3/4	1-1/16x14	5/8	3.43	87	0.83	21	1-1/4	2.49	63



Notch on nut signifies SAE 45° flare fitting.

## 17926

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

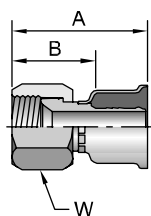


# Part Number	Thread inch	Hose I.D. inch	A inch mm		E inch mm		W inch	B inch mm	
17926-4-4	1/4 7/16x20	3/16	1.75	44	0.83	21	9/16	0.89	23
17926-6-6	3/8 5/8x18	5/16	2.15	55	0.91	23	3/4	1.29	33
17926-8-8	1/2 3/4x16	13/32	2.31	58.7	1.00	25.4	7/8	1.45	37
17926-10-10	5/8 7/8x14	1/2	2.23	57	1.26	32	1	1.28	33
17926-12-12	3/4 1-1/16x14	5/8	2.28	58	1.82	46	1-1/4	1.34	34

Notch on nut signifies 45° flare fitting.

## 16826

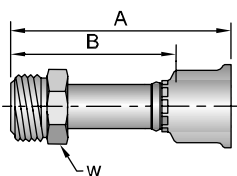
### Female JIC 37° / SAE 45° - Dual Flare - Swivel



# Part Number	Thread inch	Hose I.D. inch	A inch mm		W inch	B inch mm		Additional Material Brass (B)
16826-4-4	1/4 7/16x20	3/16	1.67	42	9/16	0.80	20	•
16826-4-5	1/4 7/16x20	1/4	1.55	48	9/16	1.03	26	
16826-4-6	1/4 7/16x20	5/16	1.55	39	9/16	0.07	17	
16826-5-5	5/16 1/2x20	1/4	1.77	45	5/8	0.90	23	
16826-8-6	1/2 3/4x16	5/16	1.76	56	7/8	1.34	34	
16826-8-8	1/2 3/4x16	13/32	1.91	49	7/8	1.05	27	
16826-8-10	1/2 3/4x16	1/2	2.36	60	7/8	1.41	36	•
16826-10-10	5/8 7/8x14	1/2	2.17	55	1	1.23	31	•
16826-10-12	5/8 7/8x14	5/8	1.96	61	1	1.53	37	

## 12826

### Male Inverted SAE 45° - Swivel



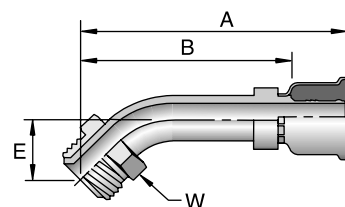
# Part Number	Thread inch	Hose I.D. inch	A inch mm		W inch	B inch mm	
12826-4-4	1/4 7/16x24	3/16	2.43	62	7/16	1.56	40
12826-5-5	5/16 1/2x20	1/4	2.56	65	1/2	1.69	43
12826-6-6	3/8 5/8x18	5/16	2.87	73	5/8	2.01	51
12826-8-8	1/2 3/4x18	13/32	3.00	76	3/4	2.14	54
12826-10-10	5/8 7/8x18	1/2	3.17	81	7/8	2.22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

See Accessories Section for O-Rings and Flange Kits.

## 16726

### Male Inverted SAE 45° - Swivel - 45° Elbow

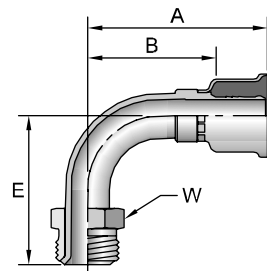
#											
Part Number	Thread		Hose I.D.	A		E		W		B	
	inch		inch	inch	mm	inch	mm	inch	mm	inch	mm
16726-4-4	1/4	7/16x24	3/16	2.20	56	0.63	16	7/16	1.33	34	
16726-5-5	5/16	1/2x20	1/4	2.30	58	0.70	18	1/2	1.43	36	
16726-6-6	3/8	5/8x18	5/16	2.55	65	0.87	22	5/8	1.69	43	
16726-8-8	1/2	3/4x18	13/32	2.60	66	1.09	28	3/4	1.74	44	



## 16926

### Male Inverted SAE 45° - Swivel - 90° Elbow

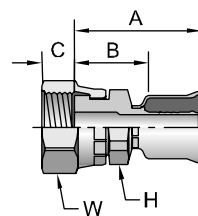
#											
Part Number	Thread		Hose I.D.	A		E		W		B	
	inch		inch	inch	mm	inch	mm	inch	mm	inch	mm
16926-4-4	1/4	7/16x24	3/16	2.27	58	1.56	40	7/16	1.40	36	
16926-6-6	3/8	5/8x18	5/16	1.89	48	1.48	38	5/8	1.03	26	
16926-8-8	1/2	3/4x18	13/32	2.25	57	1.88	48	3/4	1.39	35	
16926-10-10	5/8	7/8x18	1/2	2.70	69	2.17	55	7/8	1.75	44	



## 1JC26

### Female Seal-Lok® - Swivel - Short

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

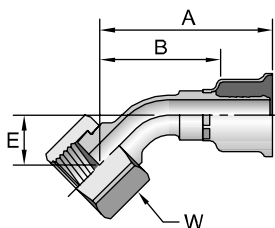


When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.  
See Accessories Section for O-Rings.



## 1J726

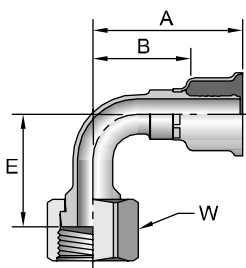
### Female Seal-Lok® - Swivel - 45° Elbow



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

## 1J926

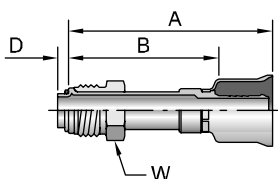
### Female Seal-Lok® - Swivel - 90° Elbow - Short Drop



# Part Number	Thread inch	Hose I.D. inch	A inch mm		E inch mm		W inch	B inch mm	
1J926-4-4	1/4	9/16x18	3/16	1.80 46	0.83	21	11/16	0.93	24
1J926-6-6	3/8	11/16x16	5/16	1.86 47	0.91	23	13/16	1.00	25
1J926-8-8	1/2	13/16X16	13/32	2.14 54	1.14	29	15/16	1.28	33
1J926-10-10	5/8	1x14	1/2	2.53 64	1.26	32	1-1/8	1.58	40
1J926-12-12	3/4	1-3/16x12	5/8	2.51 64	1.89	48	1-3/8	1.57	40
1J926-16-16	1	1-7/16X12	7/8	3.56 90	2.21	56	1-5/8	2.52	64
1J926-20-20	1-1/4	1-11/16X12	1-1/8	4.05 103	2.51	64	1-7/8	2.99	76

## 1S526

### Male Tube-O - Swivel - Short Pilot



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

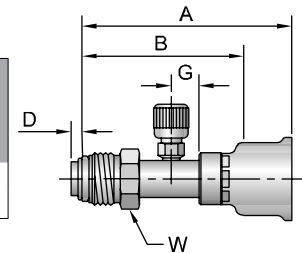
When measuring overall length to the end of the nut, B+D must be used to calculate cut-off allowance.

See Accessories Section for O-Rings.

## 1S526-PR

Male Tube-O - Swivel - Short Pilot  
with Charge Port for R12

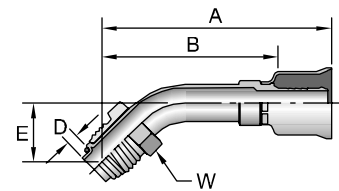
# Part Number	Thread inch	Hose I.D. inch	A		D		G		W	B	
			inch	mm	inch	mm	inch	mm	inch	inch	mm
1S526-10-10-PR	5/8 7/8x18	1/2	3.52	89	0.18	4,7	0.47	12	7/8	2.57	65
1S526-10-12-PR	5/8 7/8x18	5/8	3.68	93	0.18	4,7	0.47	12	7/8	2.74	70



## 15R26

Male Tube-O - Swivel - 45° Elbow - Short Pilot

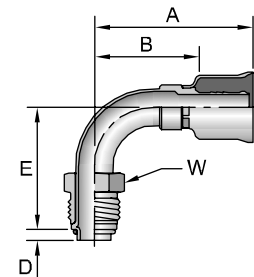
# Part Number	Thread inch	Hose I.D. inch	A		D		E		W	B	
			inch	mm	inch	mm	inch	mm	inch	inch	mm
15R26-6-6	3/8 5/8x18	5/16	2.52	64	0.18	4,7	0.85	22	5/8	1.66	42
15R26-8-8	1/2 3/4x18	13/32	2.53	64	0.18	4,7	1.05	27	3/4	1.67	42
15R26-10-10	5/8 7/8x18	1/2	2.99	76	0.18	4,7	1.25	32	7/8	2.04	52
15R26-10-12	5/8 7/8x18	5/8	3.16	80	0.18	4,7	1.25	32	7/8	2.22	56



## 15K26

Male Tube-O - Swivel - 90° Elbow - Short Pilot

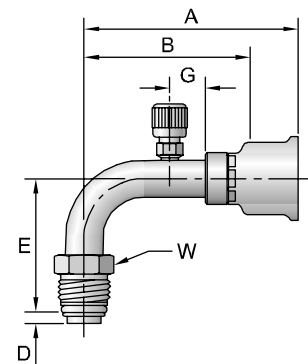
# Part Number	Thread inch	Hose I.D. inch	A		D		E		W	B	
			inch	mm	inch	mm	inch	mm	inch	inch	mm
15K26-6-6	3/8 5/8x18	5/16	2.06	52	0.18	4,7	1.76	45	5/8	1.19	30
15K26-7-6	7/16 11/16x16	5/16	2.21	56	0.18	4,7	1.76	44	11/16	1.35	34
15K26-8-8	1/2 3/4x18	13/32	2.06	52	0.18	4,7	1.74	44	3/4	1.20	30
15K26-10-10	5/8 7/8x18	1/2	2.34	59	0.18	4,7	2.20	56	7/8	1.39	35
15K26-10-12	5/8 7/8x18	5/8	2.51	64	0.18	4,7	2.20	56	7/8	1.57	40



## 15K26-PB

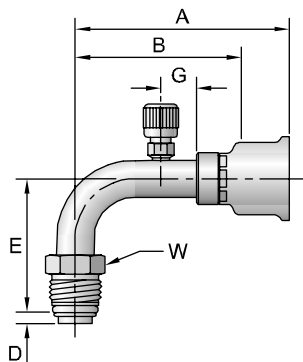
Male Tube-O - Swivel - 90° Elbow - Short Pilot  
with High Pressure Charge Port for R134a

# Part Number	Thread inch	Hose I.D. inch	A		D		E		G	W	B	
			inch	mm	inch	mm	inch	mm	inch	inch	inch	mm
15K26-8-8-PB	1/2 3/4x18	13/32	2.70	69	0.18	4,6	1.74	44	0.60	15	3/4	1.88



## 15K26-PR

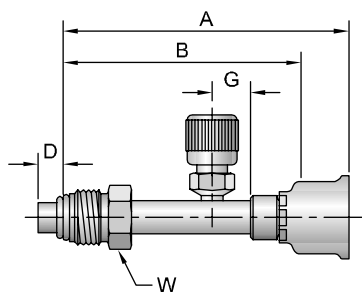
Male Tube-O - Swivel - 90° Elbow - Short Pilot  
with Charge Port for R12



#													
Part Number	Thread	Hose I.D.	A	D	E	G	W	B					
15K26-10-10-PR	5/8 7/8x18	1/2	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	5/8	3.43 87	0.18 4,7	2.22 56	0.60 15	7/8	2.49 63					

## 14526-PR

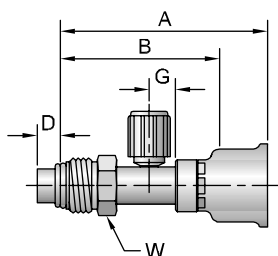
Male Tube-O - Swivel - Long Pilot With  
Charge Port for R12



#													
Part Number	Thread	Hose I.D.	A	D	G	W	B						
14526-6-6-PR	3/8 5/8x18	5/16	3.25 83	0.28 7,1	0.50 13	5/8	2.40 61						

## 14526-PT

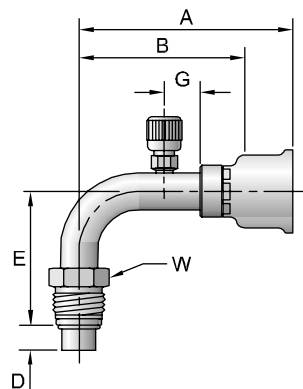
Male Tube-O - Swivel - Long Pilot With  
With Low Pressure Charge Port for R134a



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

## 15M26-PR

Male Tube-O - Swivel - 90° Elbow - Long Pilot With  
Charge Port for R12

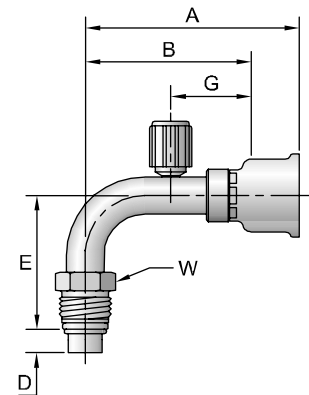


#													
Part Number	Thread	Hose I.D.	A	D	E	G	W	B					
15M26-6-6-PR	3/8 5/8x18	5/16	2.48 63	0.28 7,1	1.58 40	0.50 13	5/8	1.62 41					

## 15M26-PT

Male Tube-O - Swivel - 90° Elbow - Long Pilot With  
With Low Pressure Charge Port for R134a

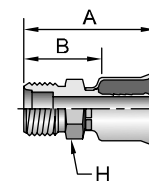
# Part Number	Thread inch	Hose I.D. inch	A		D		E		G		W	B	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm
15M26-10-12-PT	5/8 7/8x18	5/8	3.25	83	0.38	9.8	2.25	57	0.60	15	7/8	2.31	59



## 15G26

Male Tube-O - Rigid - Internal Long Pilot (3-Step)

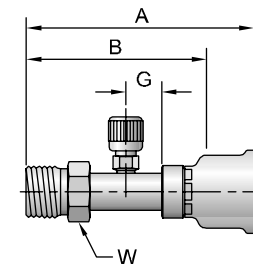
# Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	inch	inch	mm
15G26-6-6	3/8 5/8x18	3/8	1.78	45	0.625	0.92	23
15G26-8-8	1/2 3/4x16	13/32	1.95	50	3/4	1.09	28
15G26-10-10	5/8 7/8x14	1/2	4.05	103	7/8	3.10	79
15G26-10-12	5/8 7/8x14	5/8	2.19	56	0.875	1.25	32



## 15G26-PR

Male Tube-O - Rigid - Internal Long Pilot (3-Step)  
With Charge Port for R12

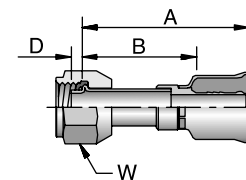
# Part Number	Thread inch	Hose I.D. inch	A		G		W	B	
			inch	mm	inch	mm	inch	inch	mm
15G26-10-12-PR	5/8 7/8x14	5/8	4.27	108	0.60	15	7/8	3.33	85



## 15S26

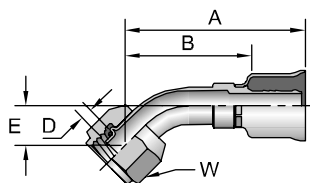
Female Tube-O - Swivel - Short Pilot

# Part Number	Thread inch	Hose I.D. inch	A		D		W	B	
			inch	mm	inch	mm	inch	inch	mm
15S26-6-6	3/8 5/8x18	5/16	2.54	65	0.18	4.7	3/4	1.68	43
15S26-8-8	1/2 3/4x16	13/32	2.68	68	0.18	4.7	7/8	1.82	46
15S26-10-10	5/8 7/8x14	1/2	2.84	72	0.18	4.7	1-1/16	1.89	48
15S26-10-12	5/8 7/8x14	5/8	3.63	92	0.18	4.7	1-1/16	2.69	68
15S26-12-12	3/4 1-1/16x14	5/8	4.00	102	0.18	4.7	1-1/4	3.06	78



## 15H26

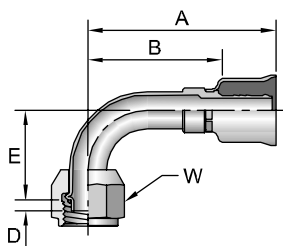
Female Tube-O - Swivel 45° Elbow - Short Pilot



#	Thread	Hose I.D.	A		D		E		W	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	mm
15H26-6-6	3/8 5/8x18	5/16	2.35	60	0.18	4,7	0.54	14	3/4	1.49	38
15H26-8-8	1/2 3/4x16	13/32	2.48	63	0.18	4,7	0.60	15	7/8	1.62	41
15H26-10-10	5/8 7/8x14	1/2	3.23	82	0.18	4,7	0.67	17	1 1/16	2.28	58
15H26-10-12	5/8 7/8x14	3/4	3.43	87	0.18	4,7	0.67	17	1-1/16	2.46	62

## 15T26

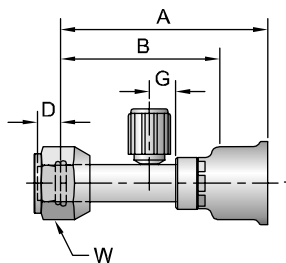
Female Tube-O - Swivel - 90° Elbow - Short Pilot



#	Thread	Hose I.D.	A		D		E		W	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	mm
15T26-6-6	3/8 5/8x18	5/16	1.89	48	0.18	4,7	1.15	29	3/4	1.03	26
15T26-8-8	1/2 3/4x16	13/32	2.34	59	0.18	4,7	1.46	37	7/8	1.48	38
15T26-10-10	5/8 7/8x14	1/2	2.08	53	0.18	4,7	1.75	44	1-1/16	1.08	27
15T26-10-12	5/8 7/8x14	5/8	2.20	56	0.18	4,7	1.53	39	1-1/16	1.26	32
15T26-12-12	3/4 1-1/16x14	5/8	2.63	67	0.18	4,7	1.75	44	1-1/4	1.69	43

## 15926-PB

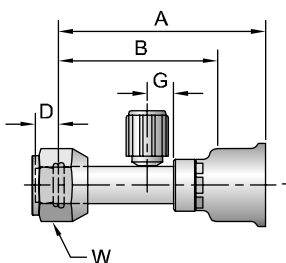
Female Tube-O - Swivel - Long Pilot  
With High Pressure Charge Port for R134a



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

## 15926-PT

Female Tube-O - Swivel - Long Pilot  
With Low Pressure Charge Port for R134a



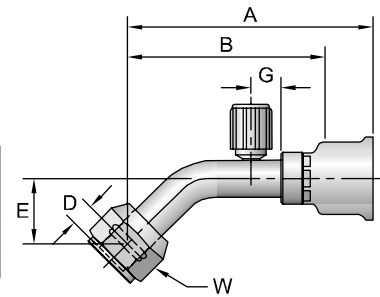
#	Thread	Hose I.D.	A		D		G		W	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	mm	inch	inch	mm
15926-10-12-PT	5/8 7/8x14	5/8	3.47	88	0.38	9,8	0.60	15	1-1/16	2.53	64



## 15N26-PB

Female Tube-O - Swivel - 45° Elbow - Long Pilot  
With High Pressure Charge Port for R134a

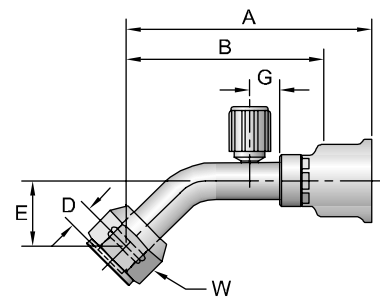
# Part Number	Thread inch	Hose I.D. inch	A		D		E		G		W	B	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm
15N26-8-8-PB	1/2 3/4x16	13/32	3.67	93	0.38	9,8	0.90	23	0.60	15	7/8	2.81	72



## 15N26-PT

Female Tube-O - Swivel - 45° Elbow - Long Pilot  
With Low Pressure Charge Port for R134a

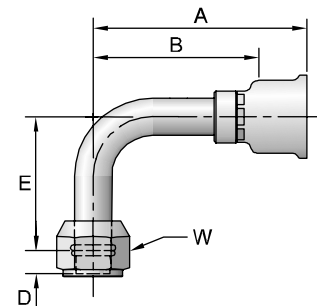
# Part Number	Thread inch	Hose I.D. inch	A		D		E		G		W	B	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm
15N26-10-12-PT	5/8 7/8x14	5/8	3.92	100	0.38	9,8	1.21	31	0.60	15	1-1/16	2.98	76



## 15L26

Female Tube-O - Swivel - 90° Elbow - Long Pilot

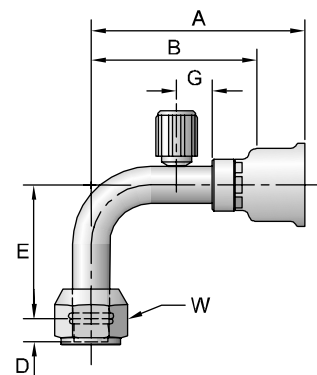
# Part Number	Thread inch	Hose I.D. inch	A		D		E		W		B	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
15L26-8-8	1/2 3/4x14	13/32	2.14	54	0.38	9,8	1.46	37	7/8	1.28	33	



## 15L26-PB

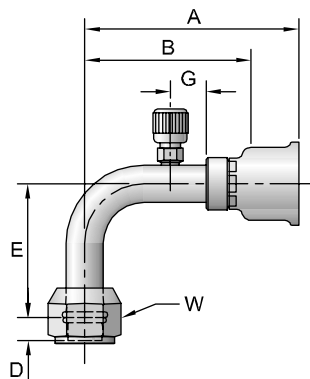
Female Tube-O - Swivel - 90° Elbow - Long Pilot  
With High Pressure Charge Port for R134a

# Part Number	Thread inch	Hose I.D. inch	A		D		E		G		W	B	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm
15L26-6-6-PB	3/8 5/8x18	5/16	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	13/32	2.80	71	0.38	9,8	1.46	37	0.60	15	7/8	1.94	49
15L26-10-12-PB	5/8 7/8x14	5/8	2.80	71	0.38	9,8	1.46	37	0.60	15	1-1/16	1.94	49



## 15L26-PR

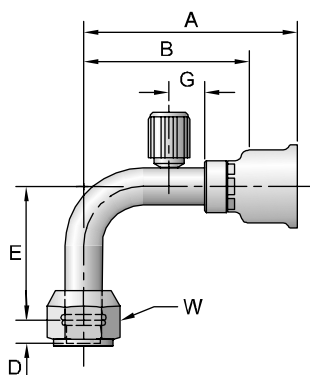
Female Tube-O - Swivel - 90° Elbow - Long Pilot  
 With Charge Port for R12



# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15L26-8-8-PR	1/2 3/4x16	13/32	2.79	71	0.38	9.8	1.46	37	0.60	15	7/8	1.93	49
15L26-10-10-PR	5/8 7/8x14	1/2	3.59	91	0.38	9.8	2.25	57	0.60	15	1-1/16	2.64	67
15L26-10-12-PR	5/8 7/8x14	5/8	3.25	83	0.38	9.8	2.25	57	0.60	15	1-1/16	2.31	59

## 15L26-PT

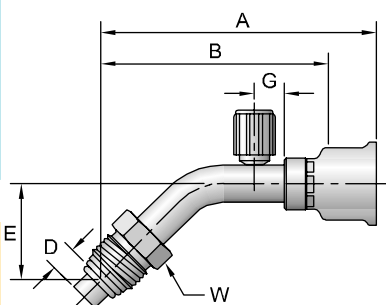
Female Tube-O - Swivel - 90° Elbow - Long Pilot  
 With Low Pressure Charge Port for R134a



# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15L26-10-10-PT	5/8 7/8X14	1/2	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	5/8	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	5/8	3.58	91	0.38	9.8	2.66	68	0.60	15	1-1/4	2.64	67

## 15P26-PT

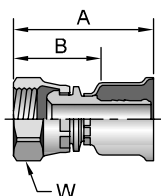
Male Tube-O - Swivel - 45° Elbow - Long Pilot With  
 With Low Pressure Charge Port for R134a



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

## 17B26

Female Air Brake Jounce Line - Swivel

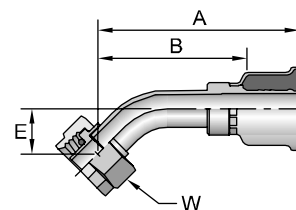


# Part Number	Thread inch	Hose inch	A inch	A mm	W inch	B inch	B mm
17B26-8-6BA	1/2 3/4x20	5/16	1.75	44	11/16	0.89	23
17B26-8-8BA	1/2 3/4x20	13/32	1.75	44	11/16	0.89	23

## 15V26

Female Compressor - Swivel - 45° Elbow

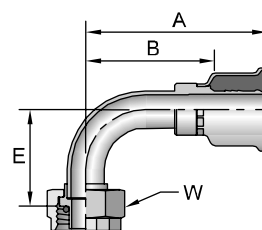
#			A		E		W	B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	inch	mm
15V26-12-8	1x14	13/32	2.72	69	0.75	19	1-1/8	1.86	47
15V26-12-12	1x14	5/8	3.39	86	0.76	19	1-1/8	2.45	62



## 15W26

Female Compressor - Swivel - 90° Elbow

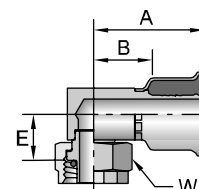
#			A		E		W	B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	inch	mm
15W26-12-8	1x14	13/32	2.24	57	1.25	32	1.125	1.38	35
15W26-12-12	1x14	5/8	3.04	77	1.63	41	1.125	2.10	53



## 15Z26

Female Compressor - Swivel - 90° Elbow - Block Type

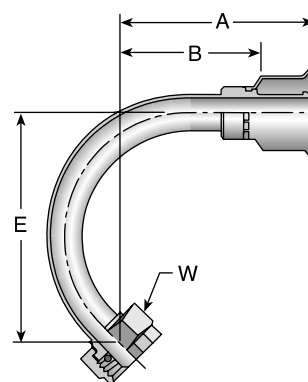
#			A		E		W	B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	inch	mm
15Z26-12-8	1X14	0.40625	1.79	45	0.80	20	1.125	0.93	24
15Z26-12-12	1X14	0.625	1.87	47	0.80	20	1.125	0.93	24



## 1RV26

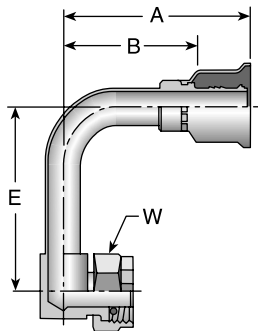
Female Compressor - Swivel - 135° Elbow




#			A		E		W	B	
Part Number	Hose I.D.	inch	inch	mm	inch	mm	inch	inch	mm
1RV26-12-8	13/32	3.24	82	3.21	82	1-1/8	2.38	60	
1RV26-12-12	5/8	2.32	59	3.21	82	1-1/8	1.38	35	



1RZ26

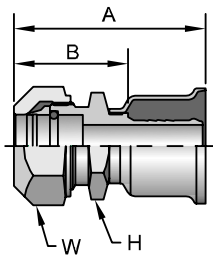
Female Compressor - Swivel - 180° Elbow - Block Type RZ






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

1T126

Male Refrigerant Tube Mender  
(with Nut and Ferrule)



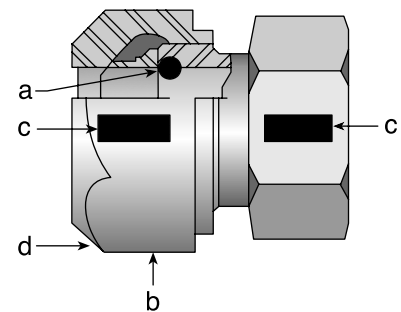
# Part Number	 Thread inch		 Hose I.D. inch	A		 H	B	
				inch	mm	inch	inch	mm
1T126-6-6	3/8	5/8x18	5/16	1.96	50	11/16	1.10	28
1T126-8-8	1/2	3/4x16	13/32	2.07	53	13/16	1.21	31
1T126-10-10	5/8	7/8x14	1/2	2.28	58	15/16	1.33	34
1T126-10-12	5/8	7/8x14	5/8	2.27	58	15/16	1.33	34
1T126-12-12	3/4	1-16x14	5/8	2.33	59	1-1/8	1.39	35

1T126 Assembly instructions on page B-25.

## 1T126

### Fitting Installation Instructions

1. 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.
2. 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.
3. 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.
4. Place the lubricated O-Ring in the counterbore of the fitting.
5. 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).
6. 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 large chamfer and/or the O-Ring may require more lubrication on the inside diameter. Repeat the previous steps.
7. (a) Make sure the tube is bottomed in the fitting  
(b) Tighten the nut finger tight  
(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).
8. Later, if it is ever necessary to loosen the connection, re-assemble the nut 1/6 turn (one hex flat) after finger tight.



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

<http://www.parkerhose.com>




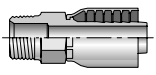
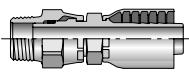
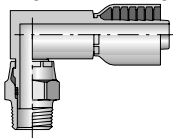
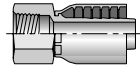
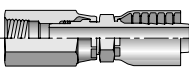


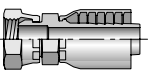
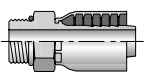
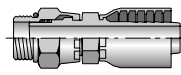
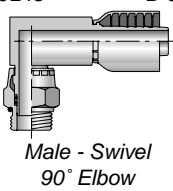
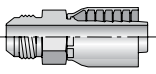
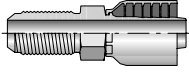
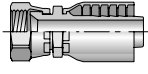
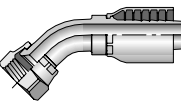
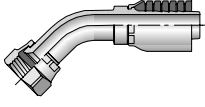
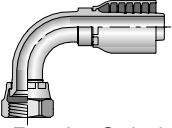

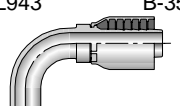
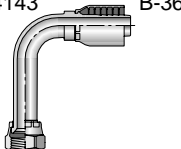
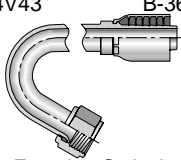
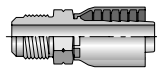
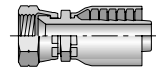

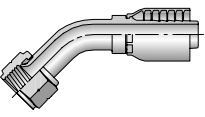
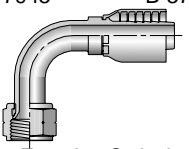
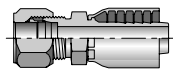
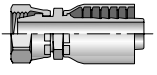
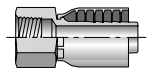
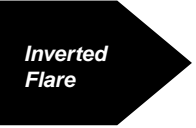

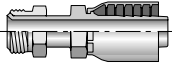
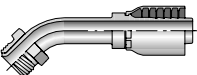
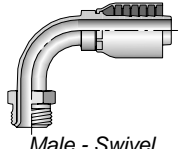
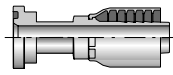
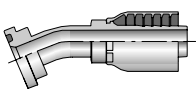
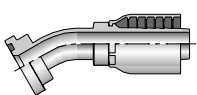
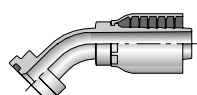
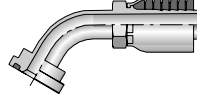
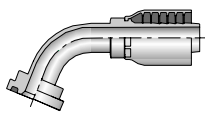
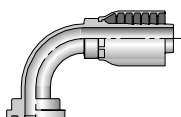


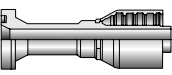
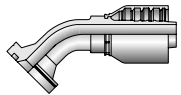
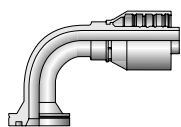
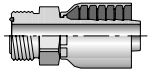
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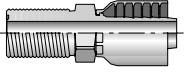
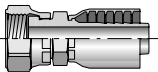
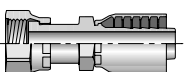
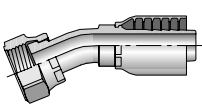
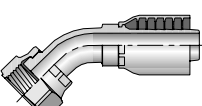
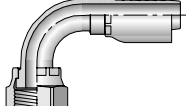
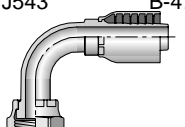
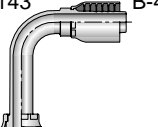

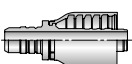
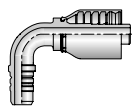
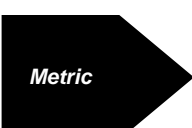
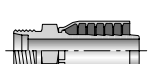
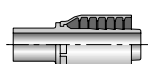

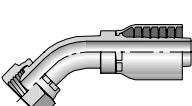
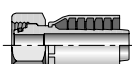
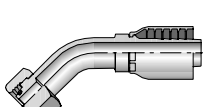
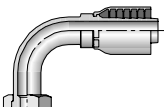

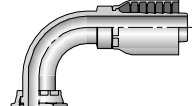
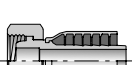
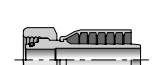
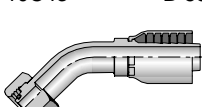
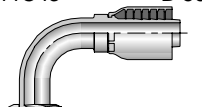

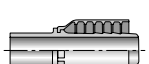

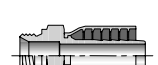

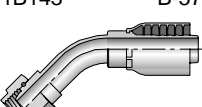
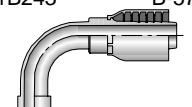


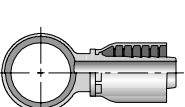
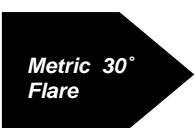
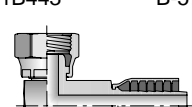

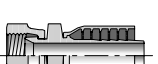
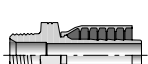
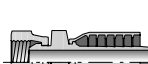


B

C

D

E

	10143 B-29	11343 B-29	11L43 B-30	10243 B-30	1S243 B-30
	 Male - Rigid	 Male - Swivel	 Male - Swivel 90° Elbow	 Female - Rigid	 Female - Swivel
10743 B-31		10543 B-31	10G43 B-31	10L43 B-32	
 Female - Swivel		 Male - Rigid	 Male - Swivel	 Male - Swivel 90° Elbow	
10343 B-32	1LB43 B-33	10643 B-33	13743 B-34	1L743 B-34	13943 B-35
 Male - Rigid	 Male - Bulkhead	 Female - Swivel	 Female - Swivel 45° Elbow - Short	 Female - Swivel 45° Elbow - Medium	 Female - Swivel 90° Elbow - Short
1L943 B-35	14143 B-36	14V43 B-36		10443 B-36	10843 B-36
 Female - Swivel 90° Elbow - Medium	 Female - Swivel 90° Elbow - Long	 Female - Swivel 150° Elbow		 Male - Rigid	 Female - Swivel
17743 B-37	17943 B-37		11143 B-37	11243 B-38	1GJ43 B-38
 Female - Swivel 45° Elbow	 Female - Swivel 90° Elbow		 Male - Rigid	 Female - Swivel	 Female - Rigid
	12843 B-38	16743 B-39	16943 B-39		11543 B-39
	 Male - Swivel	 Male - Swivel 45° Elbow	 Male - Swivel 90° Elbow		 Flange Head
11643 B-40	12643 B-40	11743 B-40	12743 B-41	11843 B-41	11943 B-41
 22-1/2° Elbow	 30° Elbow	 45° Elbow	 60° Elbow	 67-1/2° Elbow	 90° Elbow
	16A43 B-42	16F43 B-42	16N43 B-42		1J043 B-43
	 Flange Head	 45° Elbow	 90° Elbow		 Male - Rigid w/O-Ring

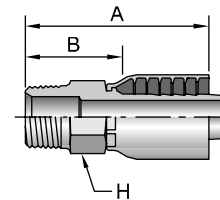
1JB43 B-43  Male - Bulkhead w/O-Ring	1JC43 B-44  Female - Swivel Short	1JS43 B-45  Female - Swivel Long	1J643 B-45  Female - Swivel 22-1/2° Elbow	1J743 B-46  Female - Swivel 45° Elbow	1J943 B-47  Female - Swivel 90° Elbow - Short
1J543 B-47  Female - Swivel 90° Elbow - Medium	1J143 B-48  Female - Swivel 90° Elbow - Long	UPTC 		1EN43 B-50  Male	1ET43 B-50  Male 90° Elbow
Metric 		1D043 B-51  Male - Rigid	11D43 B-51  Male Standpipe Rigid	1C343 B-52  Female - Swivel	1C443 B-52  Female - Swivel 45° Elbow
1CA43 B-53  Female - Swivel	1CE43 B-53  Female - Swivel 45° Elbow	1CF43 B-53  Female - Swivel 90° Elbow	DIN "S" Series & DIN "S" w/O-Ring 		1C543 B-52  Female - Swivel 90° Elbow
1C643 B-54  Female - Swivel	1C943 B-55  Female - Swivel	10C43 B-55  Female - Swivel 45° Elbow	11C43 B-56  Female - Swivel 90° Elbow	DIN 60° Cone 	13D43 B-54  Male Standpipe Rigid
BSP 		1D943 B-56  Male - Rigid	19243 B-56  Female - Swivel	1B143 B-57  Female - Swivel 45° Elbow	1B243 B-57  Female - Swivel 90° Elbow
1B543 B-58  Female - Swivel Flat Seat	Banjo 		14943 B-58  Metric Banjo	Metric 30° Flare 	1B443 B-57  Female - Swivel 90° Elbow - Block Type
BSP 		1FU43 B-59  Female - Swivel	1UT43 B-60  Male - Rigid	1GU43 B-60  Female - Swivel	1F443 B-60  Female - Swivel
				French Gaz 	

## 10143

### Male NPTF Pipe - Rigid

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

Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2. See CrimpSource for more information.



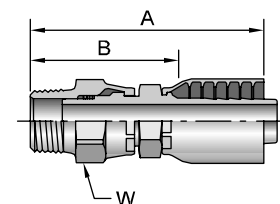
## 11343

### Male NPTF Pipe - Swivel

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

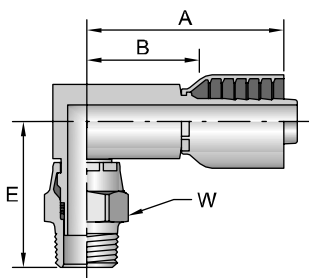
O-Ring not compatible with Phosphate Ester fluids.

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.



## 11L43

### Male NPTF Pipe - Swivel - 90° Elbow



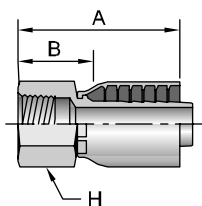
# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
11L43-4-4	1/4x18	1/4	2.23	57	1.79	45	5/8	1.48	38
11L43-4-6	1/4x18	3/8	2.53	64	1.85	47	5/8	1.50	38
11L43-6-6	3/8x18	3/8	2.53	64	1.94	49	3/4	1.50	38
11L43-8-6	1/2x14	3/8	2.66	68	2.17	55	7/8	1.63	41
11L43-8-8	1/2x14	1/2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

O-Ring not compatible with Phosphate Ester fluids.

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.

## 10243

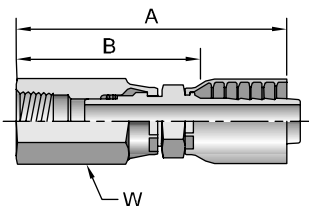
### Female NPTF Pipe - Rigid



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

## 1S243

### Female NPTF Pipe - Swivel



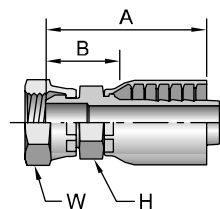
# Part Number	Thread inch	Hose I.D. inch	A		W	B	
			inch	mm	inch	inch	mm
1S243-4-4	1/4x18	1/4	3.33	85	3/4	2.58	66



## 10743

### Female NPSM Pipe - Swivel - (60° Cone)

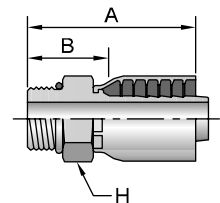
# Part Number	Thread		Hose I.D. inch	A		H inch	W inch	B	
	inch			inch	mm			inch	mm
10743-2-4	1/8x27		1/4	1.69	43	9/16	9/16	0.94	24
10743-4-4	1/4x18		1/4	1.74	44	9/16	11/16	0.99	25
10743-6-6	3/8x18		3/8	2.09	53	11/16	7/8	1.06	27
10743-8-8	1/2x14		1/2	2.32	59	15/16	1	1.06	27
10743-12-12	3/4x14		3/4	2.70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



## 10543

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

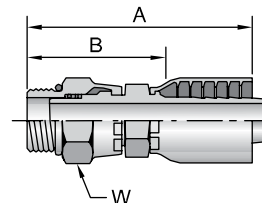
# Part Number	Thread		Hose I.D. inch	A		H inch	B	
	inch			inch	mm		inch	mm
10543-4-4	1/4	7/16x20	1/4	1.64	42	9/16	0.89	23
10543-5-4	5/16	1/2x20	1/4	1.80	46	5/8	1.05	27
10543-6-4	3/8	9/16x18	1/4	1.67	42	11/16	0.92	23
10543-6-6	3/8	9/16x18	3/8	2.10	53	11/16	1.07	27
10543-6-8	3/8	9/16x18	1/2	2.32	59	13/16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



## 10G43

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

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

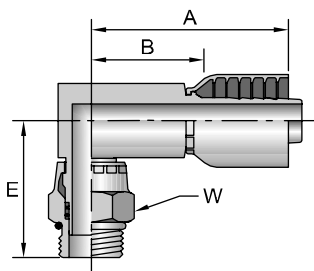


O-Ring not compatible with Phosphate Ester fluids.

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.

## 10L43

### Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow



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

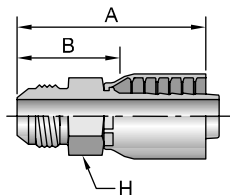
O-Ring not compatible with Phosphate Ester fluids.

See Technical Section for pressure limitations.

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.

## 10343

### Male JIC 37° - Rigid ISO 12151-5



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

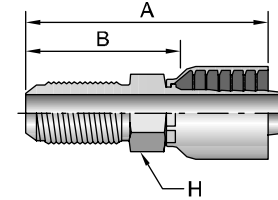
## 1LB43

### Male JIC 37° - Bulkhead without Locknut

ISO 12151-5

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

Fittings are stocked less locknut (part no. WLN). Locknuts are manufactured by the Parker Tube Fittings Division and must be ordered separately.



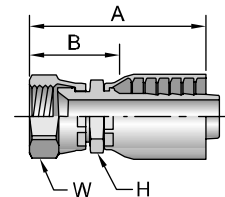
## 10643

### Female JIC 37° - Swivel

ISO 12151-5

# Part Number	Thread		Hose I.D. inch	A		H	W	B		Additional Material Stainless Steel (C)
	inch			inch	mm			inch	mm	
10643-4-4	1/4	7/16x20	1/4	1.94	49	9/16	9/16	1.19	30	•
10643-4-6	1/4	7/16x20	3/8	2.20	56	11/16	9/16	1.17	30	
10643-5-4	5/16	1/2x20	1/4	2.03	52	9/16	5/8	1.28	33	
10643-5-5	5/16	1/2x20	5/16	2.08	53	11/16	5/8	1.33	34	
10643-5-6	5/16	1/2x20	3/8	2.26	57	11/16	5/8	1.23	31	
10643-6-4	3/8	9/16x18	1/4	2.05	52	9/16	11/16	1.30	33	
10643-6-5	3/8	9/16x18	5/16	2.10	53	11/16	11/16	1.35	34	
10643-6-6	3/8	9/16x18	3/8	2.29	58	11/16	11/16	1.26	32	•
10643-6-8	3/8	9/16x18	1/2	2.51	64	13/16	11/16	1.25	32	
10643-8-6	1/2	3/4x16	3/8	2.49	63	11/16	7/8	1.46	37	•
10643-8-8	1/2	3/4x16	1/2	2.63	67	13/16	7/8	1.37	35	•
10643-8-10	1/2	3/4x16	5/8	2.82	72	15/16	7/8	1.38	35	
10643-8-12	1/2	3/4x16	3/4	2.83	72	1-1/16	7/8	1.39	35	
10643-10-6	5/8	7/8x14	3/8	2.51	64	7/8	1	1.48	38	
10643-10-8	5/8	7/8x14	1/2	2.85	72	7/8	1	1.59	40	
10643-10-10	5/8	7/8x14	5/8	2.93	74	15/16	1	1.49	38	•
10643-10-12	5/8	7/8x14	3/4	2.93	74	1-1/16	1	1.49	38	
10643-12-8	3/4	1-1/16x12	1/2	2.78	71	1-1/16	1-1/4	1.52	39	
10643-12-10	3/4	1-1/16x12	5/8	3.10	79	1-1/16	1-1/4	1.66	42	
10643-12-12	3/4	1-1/16x12	3/4	3.17	81	1-1/16	1-1/4	1.73	44	•
10643-12-16	3/4	1-1/16x12	1	3.29	84	1-3/8	1-1/4	1.67	42	
10643-14-12	7/8	1-3/16x12	3/4	3.18	81	1-1/4	1-3/8	1.74	44	
10643-16-12	1	1-5/16x12	3/4	3.31	84	1-1/4	1-1/2	1.87	47	
10643-16-16	1	1-5/16x12	1	3.62	92	1-3/8	1-1/2	2.00	51	•
10643-20-16	1-1/4	1-5/8x12	1	3.81	97	1-5/8	2	2.19	56	
10643-20-20	1-1/4	1-5/8x12	1-1/4	3.94	100	1-7/8	2	2.25	57	•
10643-24-24	1-1/2	1-7/8x12	1-1/2	3.84	98	2-1/8	2-1/4	2.47	63	
10643-32-32	2	2-1/2x12	2	4.73	120	2-1/2	2-7/8	2.95	75	

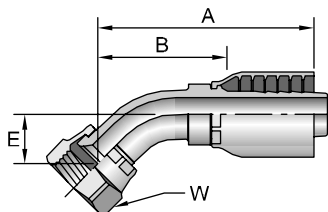
Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2. See CrimpSource for more information.



## 13743

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

ISO 12151-5

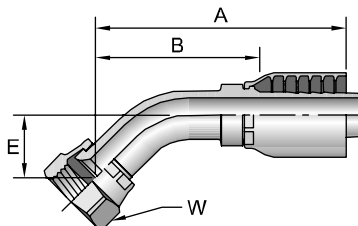


# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
13743-4-4	1/4 7/16x20	1/4	1.96	50	0.39	10	9/16	1.21	31
13743-5-4	5/16 1/2x20	1/4	2.19	56	0.39	10	5/8	1.44	37
13743-6-4	3/8 9/16x18	1/4	2.23	57	0.39	10	11/16	1.48	38
13743-6-6	3/8 9/16x18	3/8	2.39	61	0.39	10	11/16	1.39	35
13743-8-6	1/2 3/4x16	3/8	2.74	70	0.55	14	7/8	1.74	44
13743-8-8	1/2 3/4x16	1/2	2.83	72	0.55	14	7/8	1.57	40
13743-10-8	5/8 7/8x14	1/2	2.93	74	0.63	16	1	1.67	42
13743-10-10	5/8 7/8x14	5/8	3.17	81	0.63	16	1	1.73	44
13743-12-10	3/4 1-1/16x12	5/8	3.62	92	0.83	21	1-1/4	2.08	53
13743-12-12	3/4 1-1/16x12	3/4	3.63	92	0.78	20	1-1/4	2.19	56
13743-16-16	1 1-5/16x12	1	4.34	110	0.95	24	1-1/2	2.72	69
13743-20-20	1-1/4 1-5/8x12	1-1/4	4.59	117	1.19	30	2	2.82	72
13743-24-24	1-1/2 1-7/8x12	1-1/2	5.50	140	1.47	37	2-1/4	4.18	106

## 1L743

### Female JIC 37° - Swivel - 45° Elbow - Medium Drop

ISO 12151-5



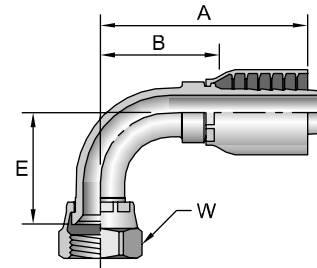
# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
1L743-6-6	3/8 9/16x18	3/8	2.66	62	0.59	15	11/16	1.63	41
1L743-8-8	1/2 3/4x16	1/2	3.17	80	0.72	18	7/8	1.91	49
1L743-12-12	3/4 1-1/16x12	3/4	4.23	107	1.06	27	1-1/4	2.79	71
1L743-16-16	1 1-5/16x12	1	4.51	115	1.07	27	1-1/2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

## 13943

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

ISO 12151-5

# Part Number	Thread		Hose I.D. inch	A		E		W inch	B	
	inch			inch	mm	inch	mm		inch	mm
13943-4-4	1/4	7/16x20	1/4	1.78	45	0.83	21	9/16	1.03	26
13943-4-6	1/4	7/16x20	3/8	2.11	54	0.83	21	9/16	1.08	27
13943-5-4	5/16	1/2x20	1/4	1.88	48	0.83	21	5/8	1.13	29
13943-5-5	5/16	1/2x20	5/16	1.96	50	0.83	21	5/8	1.21	31
13943-6-4	3/8	9/16x18	1/4	2.12	54	0.85	22	11/16	1.37	35
13943-6-6	3/8	9/16x18	3/8	2.21	56	0.91	23	11/16	1.18	30
13943-6-8	3/8	9/16x18	1/2	2.51	64	0.85	22	11/16	1.25	32
13943-8-6	1/2	3/4x16	3/8	2.52	64	1.09	28	7/8	1.49	38
13943-8-8	1/2	3/4x16	1/2	2.62	67	1.14	29	7/8	1.36	35
13943-10-8	5/8	7/8x14	1/2	2.74	70	1.26	32	1	1.48	38
13943-10-10	5/8	7/8x14	5/8	2.97	75	1.26	32	1	1.69	39
13943-12-8	3/4	1-1/16x12	1/2	3.25	83	1.83	46	1-1/4	1.99	51
13943-12-10	3/4	1-1/16x12	5/8	3.07	78	1.89	48	1-1/4	1.63	41
13943-12-12	3/4	1-1/16x12	3/4	3.49	89	1.89	48	1-1/4	2.05	52
13943-16-12	1	1-5/16x12	3/4	3.49	89	2.00	51	1-1/2	2.05	52
13943-16-16	1	1-5/16x12	1	4.28	109	2.20	56	1-1/2	2.66	68
13943-20-20	1-1/4	1-5/8x12	1-1/4	4.43	113	2.59	66	2	2.74	70
13943-24-24	1-1/2	1-7/8x12	1-1/2	5.50	140	3.81	81	2-1/4	4.13	105

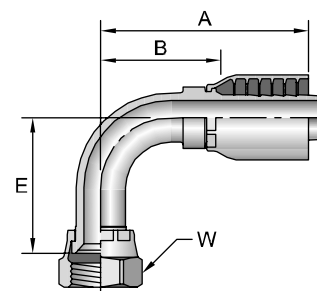


## 1L943

### Female JIC 37° - Swivel - 90° Elbow - Medium Drop

ISO 12151-5

# Part Number	Thread		Hose I.D. inch	A		E		W inch	B	
	inch			inch	mm	inch	mm		inch	mm
1L943-4-4	1/4	7/16x20	1/4	1.84	47	1.26	32	9/16	1.09	28
1L943-6-4	3/8	9/16x18	1/4	2.12	54	1.50	38	11/16	1.37	35
1L943-6-6	3/8	9/16x18	3/8	2.29	58	1.50	38	11/16	1.26	32
1L943-8-6	1/2	3/4x16	3/8	2.51	64	1.61	41	7/8	1.48	38
1L943-8-8	1/2	3/4x16	1/2	2.64	67	1.61	41	7/8	1.38	35
1L943-10-8	5/8	7/8x14	1/2	3.25	83	1.75	44	1	1.99	51
1L943-12-12	3/4	1-1/16x12	3/4	3.49	89	2.28	58	1-1/4	2.05	52
1L943-16-16	1	1-5/16x12	1	4.44	113	2.50	64	1-1/2	2.82	72

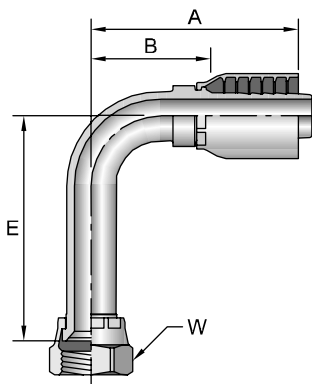







## 14143

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

ISO 12151-5

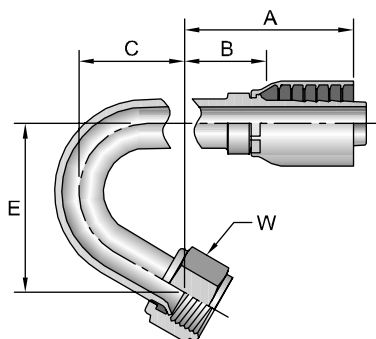





#										
Part Number	Thread		Hose I.D.	A		E		W	B	
	inch		inch	inch	mm	inch	mm	inch	inch	mm
14143-4-4	1/4	7/16x20	1/4	1.96	50	1.81	46	9/16	1.21	31
14143-5-4	5/16	1/2x20	1/4	1.93	49	1.80	46	5/8	1.18	30
14143-6-6	3/8	9/16x18	3/8	2.27	58	2.18	55	11/16	1.27	32
14143-8-6	1/2	3/4x16	3/8	2.56	65	2.43	62	7/8	1.56	40
14143-8-8	1/2	3/4x16	1/2	2.62	67	2.52	64	7/8	1.36	35
14143-10-8	5/8	7/8x14	1/2	2.78	71	2.58	66	1	1.52	39
14143-10-10	5/8	7/8x14	5/8	3.16	80	2.58	66	1	1.75	44
14143-12-12	3/4	1-1/16x12	3/4	3.49	89	3.74	95	1-1/4	2.05	52
14143-14-12	7/8	1-3/16x12	3/4	3.38	86	3.93	100	1-3/8	1.95	50
14143-16-16	1	1-5/16x12	1	3.90	99	4.32	110	1-1/2	2.31	59
14143-20-20	1-1/4	1-5/8x12	1-1/4	4.39	112	5.28	134	2	2.73	69

## 14V43

### Female JIC 37° - Swivel - 150° Elbow

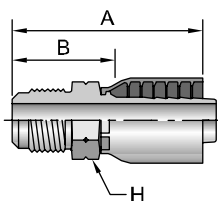
ISO 12151-5






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

## 10443

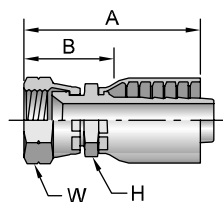
### Male SAE 45° - Rigid







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

## 10843

### Female SAE 45° - Swivel



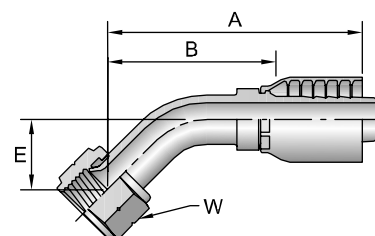
# Part Number	 Thread inch	 Hose I.D. inch	A		 H inch	 W inch	B	
			inch	mm			inch	mm
10843-6-4	3/8 5/8x18	1/4	2.11	54	3/4	3/4	1.36	35
10843-6-6	3/8 5/8x18	3/8	2.38	60	3/4	3/4	1.35	34
10843-12-12	3/4 1-1/16x14	3/4	3.17	81	1-1/16	1-1/4	1.73	44

Notch on nut signifies SAE 45° flare.

## 17743

Female SAE 45° - Swivel - 45° Elbow

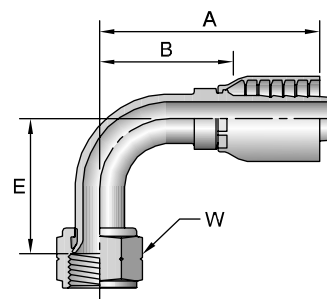
#	Thread	Hose I.D.	A		E		W	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
17743-4-6	1/4 7/16x20	3/8	2.28	58	0.33	8	9/16	1.25	32



## 17943

Female SAE 45° - Swivel - 90° Elbow

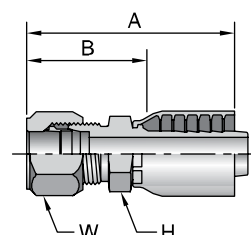
#	Thread	Hose I.D.	A		E		W	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
17943-6-6	3/8 5/8x18	3/8	2.13	54	0.85	22	3/4	1.13	29



## 11143

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

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

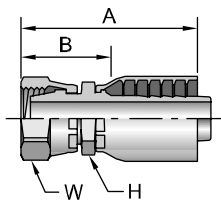


The Parker Ferrul-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on-the-job repairs. For additional information see Ferrule-Fix installation instructions in the Technical Section.

Notch on nut signifies SAE 45° flare.

## 11243

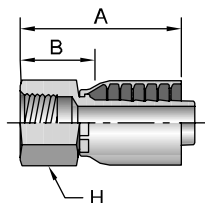
### Female Ferulok Flareless - Swivel - (24° Cone)



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

## 1GJ43

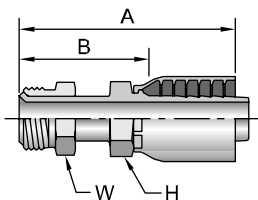
### Female Grease Connection - SPL - PTF Taper Thread Rigid - 1/2 x 27



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

## 12843

### Male Inverted SAE 45° - Swivel

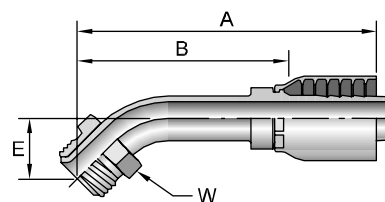


# Part Number	Thread inch		Hose I.D. inch	A inch mm		H inch	W inch	B inch mm	
12843-4-4	1/4	7/16x24	1/4	2.32	59	9/16	7/16	1.57	40
12843-4-6	1/4	7/16x24	3/8	2.65	67	11/16	7/16	1.62	41
12843-5-4	5/16	1/2x20	1/4	2.60	66	9/16	1/2	1.85	47
12843-5-6	5/16	1/2x20	3/8	2.74	70	11/16	1/2	1.71	43
12843-6-6	3/8	5/8x18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

## 16743

### Male Inverted SAE 45° - Swivel - 45° Elbow

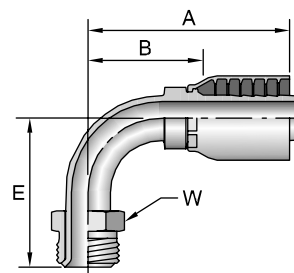
# Part Number	Thread		Hose I.D. inch	A		E		W inch	B	
	inch			inch	mm	inch	mm		inch	mm
16743-4-4	1/4	7/16x24	1/4	2.09	53	0.63	16	7/16	1.34	34
16743-4-6	1/4	7/16x24	3/8	2.42	61	0.63	16	7/16	1.39	35
16743-5-4	5/16	1/2x20	1/4	2.34	59	0.70	18	1/2	1.59	40
16743-5-6	5/16	1/2x20	3/8	2.48	63	0.70	18	1/2	1.45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



## 16943

### Male Inverted SAE 45° - Swivel - 90° Elbow

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

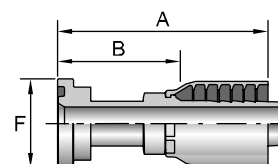


## 11543

### SAE Code 61 Flange Head

#### ISO 12151-3 - S - L

# Part Number	Flange inch	Hose I.D. inch	A		F inch	B	
			inch	mm		inch	mm
11543-8-8	1/2	1/2	3.48	88	1-3/16	2.22	56
11543-10-10	5/8	5/8	3.78	96,0	1-11/32	2.34	59,4
11543-12-8	3/4	1/2	2.46	62,5	1-1/2	1.20	30,5
11543-12-12	3/4	3/4	3.54	90	1-1/2	2.10	53
11543-16-12	1	3/4	2.74	70	1-3/4	1.30	33
11543-16-16	1	1	4.25	108	1-3/4	2.63	67
11543-20-16	1-1/4	1	3.19	81	2	1.57	40
11543-20-20	1-1/4	1-1/4	4.70	119	2	3.01	76
11543-24-20	1-1/2	1-1/4	3.22	82	2-3/8	1.53	39
11543-24-24	1-1/2	1-1/2	4.59	117	2-3/8	3.22	82
11543-24-32	1-1/2	2	5.65	144	2-7/8	3.87	98
11543-32-20	2	1-1/4	4.29	109,0	2-13/16	2.60	66,0
11543-32-24	2	1-1/2	3.14	80	2-7/8	1.77	45
11543-32-32	2	2	4.99	127	2-13/16	3.21	82

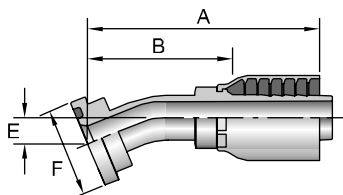


See Accessories Section for O-Rings and Flange Kits.

## 11643

### SAE Code 61 Flange Head - 22-1/2° Elbow

ISO 12151-3 - E22M - L

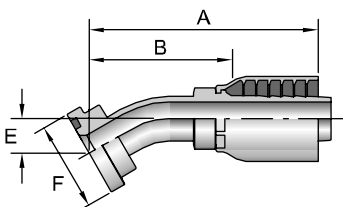


# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm	inch	inch	mm
11643-12-12	3/4	3/4	3.90	99	0.44	11	1-1/2	2.47	63
11643-16-12	1	3/4	3.89	99	0.44	11	1-3/4	2.46	62
11643-16-16	1	1	4.25	108	0.44	11	1-3/4	2.66	68
11643-20-16	1-1/4	1	4.25	108	0.44	11	2	2.66	68
11643-20-20	1-1/4	1-1/4	4.65	118	0.50	13	2	3.00	76
11643-24-20	1-1/2	1-1/4	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)

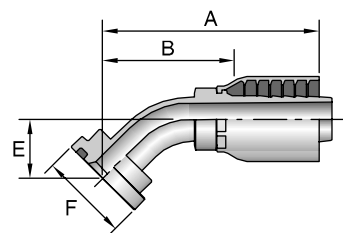


# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm	inch	inch	mm
12643-12-12	3/4	3/4	3.90	99	0.59	15	1-1/2	2.46	62
12643-16-16	1	1	4.38	111	0.62	16	1-3/4	2.76	70
12643-20-16	1-1/4	1	4.38	111	0.62	16	2	2.76	70
12643-20-20	1-1/4	1-1/4	4.39	112	0.72	18	2	2.70	69

## 11743

### SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)



# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm	inch	inch	mm
11743-8-8	1/2	1/2	3.28	83	0.77	20	1-3/16	2.02	51
11743-10-10	5/8	5/8	4.63	118	0.94	24	1-11/32	3.19	81
11743-12-8	3/4	1/2	3.32	84	0.81	21	1-1/2	2.06	52
11743-12-12	3/4	3/4	3.85	98	1.02	26	1-1/2	2.41	61
11743-16-12	1	3/4	3.85	98	1.02	26	1-3/4	2.41	61
11743-16-16	1	1	4.76	121	1.26	32	1-3/4	3.14	80
11743-20-16	1-1/4	1	4.76	121	1.26	32	2	3.14	80
11743-20-20	1-1/4	1-1/4	5.61	142	1.50	38	2	3.92	100
11743-20-24	1-1/4	1-1/2	5.45	138	1.38	35	2	4.08	104
11743-24-20	1-1/2	1-1/4	5.55	141	1.496	38	2-3/8	3.86	98
11743-24-24	1-1/2	1-1/2	5.50	140	1.43	36	2-3/8	4.13	105
11743-32-24	2	1-1/2	5.49	139	1.42	36	2-13/16	4.12	105
11743-32-32	2	2	7.23	184	1.98	50	2-13/16	5.45	138

See Accessories Section for O-Rings and Flange Kits.

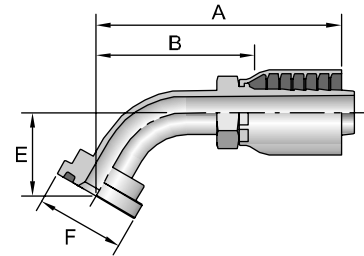


## 12743

### SAE Code 61 Flange Head - 60° Elbow

ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)

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

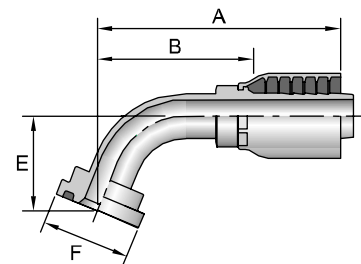


## 11843

### SAE Code 61 Flange Head - 67-1/2° Elbow

ISO 12151-3 - E67S - L (1 Piece: ISO 12151-3 - E67M - L)

# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm	inch	inch	mm
11843-12-12	3/4	3/4	4.09	104	1.60	41	1-1/2	2.66	68
11843-16-16	1	1	4.66	118	1.75	44	1-3/4	3.07	78
11843-20-20	1-1/4	1-1/4	5.04	128	1.94	49	2	3.37	86

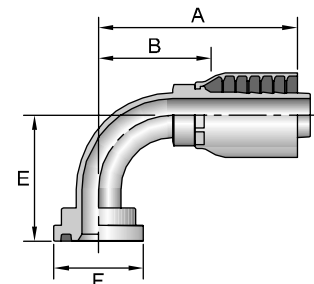


## 11943

### SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm	inch	inch	mm
11943-8-8	1/2	1/2	2.93	74	1.60	41	1-3/16	1.67	42
11943-10-10	5/8	5/8	3.71	94	2.10	53	1-11/32	2.27	58
11943-12-8	3/4	1/2	2.93	74	1.66	42	1-1/2	1.67	42
11943-12-10	3/4	5/8	3.71	94	2.10	53	1-1/2	2.27	58
11943-12-12	3/4	3/4	3.51	89	2.28	58	1-1/2	2.07	53
11943-16-8	1	1/2	2.91	74	2.03	52	1-3/4	1.65	42
11943-16-12	1	3/4	3.52	89	2.28	58	1-3/4	1.92	53
11943-16-16	1	1	4.28	109	2.78	71	1-3/4	2.66	68
11943-20-16	1-1/4	1	4.25	108	2.76	70	2	2.63	67
11943-20-20	1-1/4	1-1/4	5.12	130	3.54	90	2	3.43	87
11943-24-20	1-1/2	1-1/4	5.09	129	3.54	90	2-3/8	3.40	86
11943-20-24	1-1/4	1-1/2	4.19	106	2.49	63	2	2.82	72
11943-24-24	1-1/2	1-1/2	5.50	140	3.11	79	2-3/8	4.13	105
11943-32-24	2	1-1/2	5.48	139	3.10	79	2-13/16	4.11	104
11943-32-32	2	2	6.75	171	4.48	114	2-13/16	4.97	126

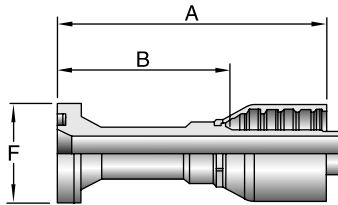


See Accessories Section for O-Rings and Flange Kits.

## 16A43

### SAE Code 62 Flange Head

ISO 12151-3 - S - S

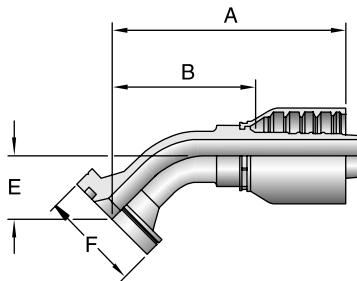


#	Flange	Hose I.D.	A		B		F
Part Number	inch	inch	inch	mm	inch	mm	inch
16A43-12-12	3/4	3/4	4.12	104,6	2.68	68,0	1-5/8
16A43-16-12	1	3/4	3.10	78,7	1.66	42,2	1-7/8
16A43-16-16	1	1	4.81	122,2	3.19	81,0	1-7/8
16A43-20-16	1-1/4	1	3.61	91,7	1.99	50,5	2-1/8
16A43-20-20	1-1/4	1-1/4	5.01	127,3	3.32	84,3	2-1/8

## 16F43

### SAE Code 62 Flange Head

ISO 12151-3 - E45S - S (1 Piece 12151-3-E45M-S)

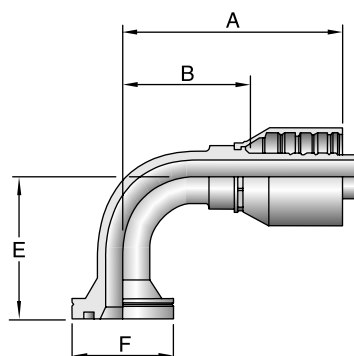


#	Flange	Hose I.D.	A		B		F	E	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16F43-12-12	3/4	3/4	3.82	97,0	2.38	60,5	1-5/8	1.02	25,9
16F43-16-16	1	1	4.66	118,4	3.04	77,2	1-7/8	1.26	32,0
16F43-20-16	1-1/4	1	4.57	116,1	2.95	74,9	2-1/8	1.06	26,9

## 16N43

### SAE Code 62 Flange Head

ISO 12151-3 - E90S - S (1 Piece 12151-3-E90M-S)



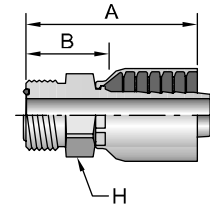
#	Flange	Hose I.D.	A		B		F	E	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16N43-12-12	3/4	3/4	3.51	89,2	2.07	52,6	1-5/8	2.28	57,9
16N43-16-12	1	3/4	3.49	88,6	2.05	52,1	1-7/8	2.28	57,9
16N43-16-16	1	1	4.28	108,7	2.66	67,6	1-7/8	2.76	70,1
16N43-20-16	1-1/4	1	4.28	108,7	2.66	67,6	2-1/8	2.76	70,1
16N43-20-20	1-1/4	1-1/4	5.09	129,3	3.40	86,4	2-1/8	3.54	90,0

## 1J043

### Male Seal-Lok® - Rigid - (with O-Ring)

ISO 12151-1 - S

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

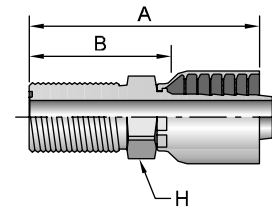


## 1JB43

### Male Seal-Lok® - Bulkhead without Locknut - (with O-Ring)

End Connection per ISO 8434-3-BH

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



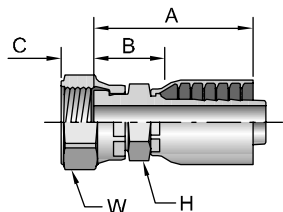
Fittings are stocked less locknut (part no. WLN). Locknuts are manufactured by the Parker Tube Fittings Division and must be ordered separately.





See Accessories Section for O-Rings and Flange Kits.

## 1JC43

### Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA



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

When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.  
Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2.  
See CrimpSource for more information.

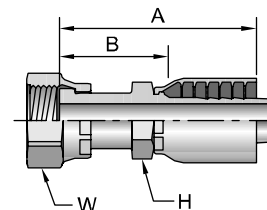
See Accessories Section for O-Rings.

## 1JS43

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 SWSB

# Part Number	Thread		Hose I.D. inch	A		H inch	W inch	B	
	inch			inch	mm			inch	mm
1JS43-4-4	1/4	9/16x18	1/4	2.07	53	9/16	11/16	1.32	34
1JS43-4-6	1/4	9/16x18	3/8	2.21	56	11/16	11/16	1.18	30
1JS43-6-4	3/8	11/16x16	1/4	2.14	54	9/16	13/16	1.39	35
1JS43-6-6	3/8	11/16x16	3/8	2.28	58	11/16	13/16	1.25	32
1JS43-6-8	3/8	11/16x16	1/2	2.50	64	13/16	13/16	1.24	31
1JS43-8-4	1/2	13/16x16	1/4	2.26	57	11/16	15/16	1.51	38
1JS43-8-6	1/2	13/16x16	3/8	2.53	64	11/16	15/16	1.50	38
1JS43-8-8	1/2	13/16x16	1/2	2.65	67	13/16	15/16	1.39	35
1JS43-8-10	1/2	13/16x16	5/8	2.82	72	15/16	15/16	1.38	35
1JS43-10-6	5/8	1x14	3/8	2.63	67	11/16	1-1/8	1.62	41
1JS43-10-8	5/8	1x14	1/2	2.89	73	13/16	1-1/8	1.63	41
1JS43-10-10	5/8	1x14	5/8	3.07	78	15/16	1-1/8	1.66	42
1JS43-10-12	5/8	1x14	3/4	3.08	78	1-1/16	1-1/8	1.64	42
1JS43-12-8	3/4	1-3/16x12	1/2	2.90	74	15/16	1-3/8	1.64	42
1JS43-12-10	3/4	1-3/16x12	5/8	3.19	81	1-1/8	1-3/8	1.75	44
1JS43-12-12	3/4	1-3/16x12	3/4	3.31	84	1-1/8	1-3/8	1.87	47
1JS43-12-16	3/4	1-3/16x12	1	3.53	90	1-5/16	1-3/8	1.91	49
1JS43-16-12	1	1-7/16x12	3/4	3.37	86	1-3/8	1-5/8	1.93	49
1JS43-16-16	1	1-7/16x12	1	3.62	92	1-3/8	1-5/8	2.00	51
1JS43-16-20	1	1-7/16x12	1-1/4	3.77	96	1-3/4	1-5/8	2.08	53
1JS43-20-16	1-1/4	1-11/16x12	1	3.64	92	1-3/8	1-7/8	2.02	51
1JS43-20-20	1-1/4	1-11/16x12	1-1/4	3.77	96	1-3/4	1-7/8	2.15	53
1JS43-24-20	1-1/2	2x12	1-1/4	3.88	99	1-3/4	2-1/4	2.23	57
1JS43-24-24	1-1/2	2x12	1-1/2	3.91	99	1-7/8	2-1/4	2.54	65

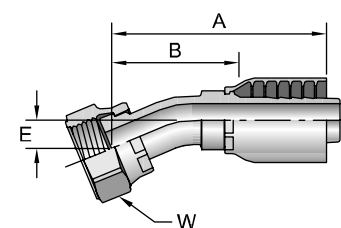


## 1J643

### Female Seal-Lok® - Swivel - 22-1/2° Elbow

End Connection per ISO 8434-3-SWE

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



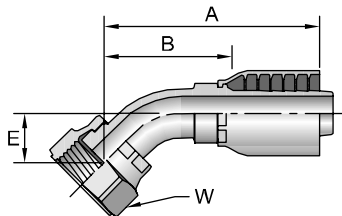
See Accessories Section for O-Rings.






## 1J743

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45






# Part Number	 Thread inch		 Hose I.D. inch	A inch mm		E inch mm		 W inch	B inch mm	
1J743-4-4	1/4	9/16x18	1/4	1.97	50	0.39	10	11/16	1.22	31
1J743-4-4-SM	1/4	9/16x18	1/4	1.97	50	0.39	10	17 mm	1.22	31
1J743-4-6	1/4	9/16x18	3/8	2.23	57	0.39	10	11/16	1.20	30
1J743-6-4	3/8	11/16x16	1/4	2.08	53	0.43	11	13/16	1.33	34
1J743-6-4-SM	3/8	11/16x16	1/4	2.08	53	0.43	11	22 mm	1.33	34
1J743-6-5	3/8	11/16x16	5/16	2.37	60	0.43	11	13/16	1.62	41
1J743-6-6	3/8	11/16x16	3/8	2.34	59	0.43	11	13/16	1.31	33
1J743-6-8	3/8	11/16x16	1/2	2.66	68	0.43	11	13/16	1.41	36
1J743-8-4	1/2	13/16x16	1/4	2.56	65	0.59	15	15/16	1.81	46
1J743-8-6	1/2	13/16x16	3/8	2.53	64	0.59	15	15/16	1.50	38
1J743-8-6-SM	1/2	13/16x16	3/8	2.53	64	0.59	15	24 mm	1.50	38
1J743-8-8	1/2	13/16x16	1/2	2.83	72	0.59	15	15/16	1.57	40
1J743-8-8-SM	1/2	13/16x16	1/2	2.83	72	0.59	15	24 mm	1.57	40
1J743-8-10	1/2	13/16x16	5/8	3.09	78	0.59	15	15/16	1.65	42
1J743-10-8	5/8	1x14	1/2	2.93	74	0.63	16	1-1/8	1.67	42
1J743-10-10	5/8	1x14	5/8	3.17	81	0.63	16	1-1/8	1.73	44
1J743-10-10-SM	5/8	1x14	5/8	3.17	81	0.63	16	30 mm	1.73	44
1J743-10-12	5/8	1x14	3/4	3.36	85	0.65	16	1-1/8	1.93	49
1J743-12-8	3/4	1-3/16x12	1/2	3.57	91	0.82	21	1-3/8	2.31	59
1J743-12-10	3/4	1-3/16x12	5/8	3.62	92	0.83	21	1-3/8	2.18	55
1J743-12-12	3/4	1-3/16x12	3/4	3.63	92	0.83	21	1-3/8	2.19	56
1J743-12-12-SM	3/4	1-3/16x12	3/4	3.63	92	0.83	21	36 mm	2.19	56
1J743-12-16	3/4	1-3/16x12	1	3.67	93	0.81	21	1-3/8	2.05	52
1J743-16-12	1	1-7/16x12	3/4	4.02	102	0.94	24	1-5/8	2.59	66
1J743-16-16	1	1-7/16x12	1	4.38	111	0.94	24	1-5/8	2.76	70
1J743-16-20	1	1-7/16x12	1-1/4	4.59	117	0.94	24	1-5/8	2.94	75
1J743-20-16	1-1/4	1-11/16x12	1	4.52	115	1.00	25	1-7/8	2.93	74
1J743-20-20	1-1/4	1-11/16x12	1-1/4	4.78	121	1.00	25	1-7/8	3.09	78
1J743-24-20	1-1/2	2x12	1-1/4	4.99	127	1.11	28	2-1/4	3.30	84
1J743-24-24	1-1/2	2x12	1-1/2	4.70	119	1.07	27	2-1/4	3.33	85

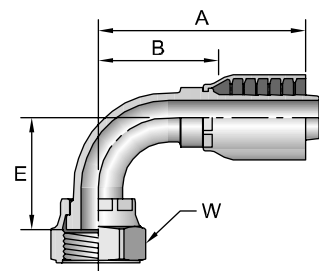
See Accessories Section for O-Rings.

## 1J943

### Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

ISO 12151-1 - SWES90




# Part Number				A		E			B	
	Thread inch		Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1J943-4-4	1/4	9/16x18	1/4	1.78	45	0.83	21	11/16	1.03	26
1J943-4-6	1/4	9/16x18	3/8	2.05	52	0.83	21	11/16	1.02	26
1J943-6-4	3/8	11/16x16	1/4	1.93	49	0.91	23	13/16	1.18	30
1J943-6-5	3/8	11/16x16	5/16	2.25	57	0.90	23	13/16	1.50	38
1J943-6-6	3/8	11/16x16	3/8	2.21	56	0.91	23	13/16	1.18	30
1J943-6-8	3/8	11/16x16	1/2	2.53	64	0.90	23	13/16	1.27	32
1J943-8-4	1/2	13/16x16	1/4	2.28	58	1.15	29	15/16	1.53	39
1J943-8-6	1/2	13/16x16	3/8	2.28	58	1.14	29	15/16	1.25	32
1J943-8-8	1/2	13/16x16	1/2	2.59	66	1.14	29	15/16	1.33	34
1J943-8-8-SM	1/2	13/16x16	1/2	2.59	66	1.14	29	24 mm	1.33	34
1J943-8-10	1/2	13/16x16	5/8	2.81	71	1.15	29	15/16	1.37	35
1J943-10-8	5/8	1x14	1/2	2.74	70	1.26	32	1-1/8	1.48	38
1J943-10-10	5/8	1x14	5/8	2.97	75	1.26	32	1-1/8	1.53	39
1J943-10-10-SM	5/8	1x14	5/8	2.97	75	1.26	32	30 mm	1.53	39
1J943-10-12	5/8	1x14	3/4	3.08	78	1.27	32	1-1/8	1.64	42
1J943-12-8	3/4	1-3/16x12	1/2	3.21	82	1.89	48	1-3/8	1.95	50
1J943-12-10	3/4	1-3/16x12	5/8	3.49	89	1.89	48	1-3/8	2.05	52
1J943-12-12	3/4	1-3/16x12	3/4	3.06	78	1.89	48	1-3/8	2.05	52
1J943-12-16	3/4	1-3/16x12	1	3.88	99	1.89	48	1-3/8	2.26	57
1J943-16-12	1	1-7/16x12	3/4	4.06	103	2.22	56	1-5/8	2.62	67
1J943-16-16	1	1-7/16x12	1	4.31	109	2.20	56	1-5/8	2.69	68
1J943-16-20	1	1-7/16x12	1-1/4	4.56	116	2.21	56	1-5/8	2.87	73
1J943-20-16	1-1/4	1-11/16x12	1	4.64	118	2.54	65	1-7/8	3.02	80
1J943-20-20	1-1/4	1-11/16x12	1-1/4	4.88	124	2.51	64	1-7/8	3.19	81
1J943-24-20	1-1/2	2x12	1-1/4	4.97	126	2.70	69	2-1/4	3.32	84
1J943-24-24	1-1/2	2x12	1-1/2	5.50	140	2.68	68	2-1/4	4.13	105

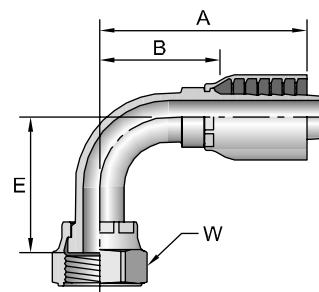


## 1J543

### Female Seal-Lok® - Swivel - 90° Elbow - Medium Drop

ISO 12151-1 - SWEM90

# Part Number	 Thread inch	 Hose I.D. inch	A		E		 W inch	B inch mm	
1J543-4-4	1/4	9/16x18	1/4	2.07 53	1.26 32	11/16	1.32	34	
1J543-6-4	3/8	11/16x16	1/4	2.12 54	1.50 38	13/16	1.37	35	
1J543-6-6	3/8	11/16x16	3/8	2.40 61	1.50 38	13/16	1.37	35	
1J543-6-6-SM	3/8	11/16x16	3/8	2.40 61	1.50 38	22 mm	1.37	35	
1J543-8-6	1/2	13/16x16	3/8	2.48 63	1.61 41	15/16	1.45	37	
1J543-8-8	1/2	13/16x16	1/2	2.59 66	1.61 41	15/16	1.33	34	
1J543-10-8	5/8	1x14	1/2	2.74 70	1.85 47	1-1/8	1.48	38	
1J543-10-10	5/8	1x14	5/8	2.97 75	1.85 47	1-1/8	1.53	39	
1J543-10-12	5/8	1x14	3/4	3.12 79	1.88 48	1-1/8	1.68	43	
1J543-12-12	3/4	1-3/16x12	3/4	3.49 89	2.28 58	1-3/8	2.05	52	
1J543-16-16	1	1-7/16x12	1	4.86 123	2.78 71	1-5/8	3.27	83	
1J543-20-20	1-1/4	1-11/16x12	1-1/4	4.89 124	3.09 78	1-7/8	3.20	81	

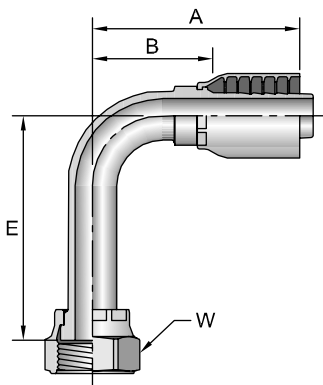


See Accessories Section for O-Rings.

## 1J143

Female Seal-Lok® - Swivel - 90° Elbow - Long Drop

ISO 12151-1 - SWEL90



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

## Universal Push-to-Connect (UPTC) Introduction

Traditionally, the fluid power industry has used threaded connectors to make a leak free connection. The speed of making connections is slow and the reliability of the connection is dependent on proper assembly procedures. Parker's UPTC connectors rely on a mechanical retaining mechanism (other than threads) to create a seal.

Tools are not required for assembly, and the reliability and speed of making connections with the UPTC design is greatly improved compared to traditional threaded connections.

### Features

- Available in sizes 1/4", 3/8", 1/2", 5/8", and 3/4"
- Uses standard Seal-Lok adapters for a wide variety of configurations, as well as excellent field serviceability
- Meets or exceeds SAE 100R2 pressure ratings (see Fig. 2)
- Includes visual and tactile installation indicators
- Seal-aligning nipple eliminates hose twist during assembly
- No special tooling required for disassembly
- Uses elastomeric seals, including Parker's patented Trap-Seal

## Design and Construction

UPTC Seal-Lok consists of a base Seal-Lok ORFS fitting, a UPTC nut (including internal sealing and retaining elements), a dust O-Ring, and a UPTC hose assembly or rigid tube, as shown in figure 1. The base ORFS fitting is a highly reliable and widely available off-the-shelf standard SAE J1453 adapter. The sealing O-Ring is supported by a pressure energized anti-extrusion ring that prevents O-Ring extrusion and ensures tight sealing even under high pressure.

Once fully engaged, the retaining element is positively trapped between the male and UPTC nut. The dust O-Ring keeps contamination out and serves as a full engagement visual indicator. A clear tactile feeling at the end of the push indicates a proper connection. Once a proper connection is made, the dust O-Ring is covered by the UPTC nut. This also serves as a positive visual indicator of full engagement for easy inspection and quality control.

Once connected, the UPTC nut is permanently attached to the UPTC hose end similar to a traditional swivel nut. To disconnect, just use a wrench to unscrew the UPTC nut from the base adapter. Re-connect is possible by tightening the UPTC nut back to the base adapter, if the connection is not damaged. If the hose or tube is damaged, they can be replaced by installing a new UPTC assembly or a readily available standard Seal-Lok ORFS hose or tube assembly.



Fig. 1a

Fig. 1b

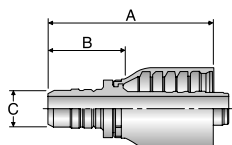
Fig. 1a — This is a Tube Fittings Division part. Information can be found in Catalog 4300.

### UPTC Pressure Ratings

Size	Pressure (psi)	Pressure (Bar)
-4	5800	400
-6	5000	345
-8	4250	293
-10	4000	276
-12	3125	216

## 1EN43

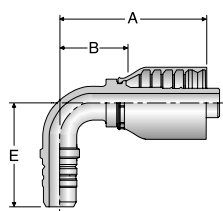
### UPTC Male



Part Number	Hose End Size inch	A inch	B inch	inch	C Nominal Connection Size mm
1EN43-8-4	1/4	1.83	1.08	0.31	8
1EN43-12-6	3/8	2.15	1.12	0.47	12
1EN43-15-8	1/2	2.51	1.25	0.59	15
1EN43-18-10	5/8	2.78	1.34	0.71	18
1EN43-22-12	3/4	2.81	1.37	0.87	22

## 1ET43

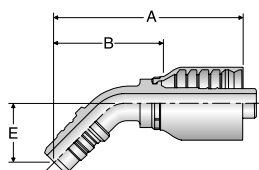
### UPTC Male 90° Elbow



Part Number	Hose End Size inch	A inch	B inch	inch	C Nominal Connection Size mm	E inch
1ET43-8-4	1/4	1.78	1.03	0.31	8	1.54
1ET43-12-6	3/8	2.21	1.18	0.47	12	1.54
1ET43-15-8	1/2	2.51	1.25	0.59	15	1.77
1ET43-18-10	5/8	2.97	1.53	0.71	18	2.24
1ET43-22-12	3/4	3.43	1.99	0.87	22	2.50

## 1EU43

### UPTC Male 45° Elbow



Part Number	Hose End Size inch	A inch	B inch	inch	C Nominal Connection Size mm	E inch
1EU43-8-4	1/4	2.48	1.73	0.31	8	0.91
1EU43-12-6	3/8	2.83	1.80	0.47	12	0.91
1EU43-15-8	1/2	3.17	1.91	0.59	15	0.99
1EU43-18-10	5/8	3.68	2.24	0.71	18	1.26
1EU43-22-12	3/4	3.76	2.32	0.87	22	1.30

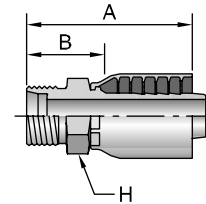


## 1D043

### Male Metric L - Rigid - (24° Cone)

ISO 12151-2

# Part Number	Thread		Hose I.D. inch	A		H mm	B	
	mm		inch	mm			inch	mm
1D043-6-4	6	M12x1,5	1/4	1.73	44	14	0.93	24
1D043-8-4	8	M14x1,5	1/4	1.61	41	14	0.93	24
1D043-10-5	10	M16x1,5	5/16	1.97	50	19	0.83	21
1D043-10-6	10	M16x1,5	3/8	1.97	50	19	0.83	21
1D043-12-5	12	M18x1,5	5/16	1.89	48	19	0.94	24
1D043-12-6	12	M18x1,5	3/8	1.97	50	19	0.83	21
1D043-15-6	15	M22x1,5	3/8	1.93	49	22	1.02	26
1D043-15-8	15	M22x1,5	1/2	2.28	58	22	0.94	24
1D043-18-10	18	M26x1,5	5/8	2.68	68	27	1.14	29
1D043-18-12	18	M26x1,5	3/4	2.68	68	27	1.14	29
1D043-22-12	22	M30x2	3/4	2.72	69	30	1.22	31
1D043-28-16	28	M36x2	1	3.11	79	36	1.30	33
1D043-35-20	35	M45x2	1-1/4	3.35	85	46	1.50	38

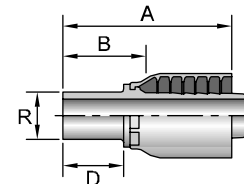


## 11D43

### Male Standpipe Metric L - Rigid

End Connection per ISO 8434-1-SDS

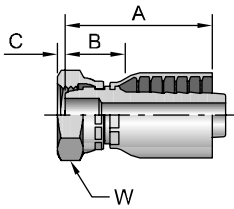
# Part Number	R mm	Hose I.D. inch	A		D		B	
			inch	mm	inch	mm	inch	mm
11D43-6-4	6	1/4	2.03	52	0.87	22	1.28	33
11D43-10-5	10	5/16	2.36	60	0.91	23	1.45	37
11D43-10-6	10	3/8	2.28	58	0.91	23	1.14	29
11D43-12-4	12	1/4	2.17	55	0.91	23	1.22	31
11D43-15-8	15	1/2	2.56	65	0.98	25	1.22	31
11D43-18-10	18	5/8	2.99	76	1.02	26	1.48	38
11D43-18-12	18	3/4	2.80	71	1.02	26	1.22	31
11D43-22-12	22	3/4	2.87	73	1.10	28	1.26	32
11D43-28-16	28	1	3.31	84	1.18	30	1.46	37



Metric L: Mates with EO "L" Series Fittings. See Accessories Section for O-Rings.

## 1C343

### Female Metric L - Swivel - (Ball Nose)

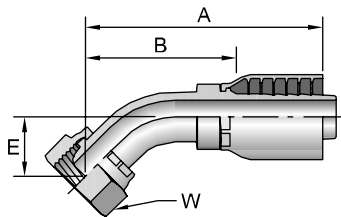


# Part Number	Thread mm	Hose I.D. inch	A inch mm		C inch mm		W mm	B inch mm	
1C343-6-4	6 M12x1,5	1/4	1.75	44	0.09	2	14	1.16	29
1C343-8-4	8 M14x1,5	1/4	1.77	45	0.11	3	17	1.16	29
1C343-10-5	10 M16x1,5	5/16	2.01	51	0.06	2	19	1.20	30
1C343-10-6	10 M16x1,5	3/8	2.06	52	0.06	2	19	1.10	28
1C343-12-5	12 M18x1,5	5/16	1.87	47	0.10	3	22	0.70	18
1C343-12-6	12 M18x1,5	3/8	2.23	57	0.10	3	22	1.18	30
1C343-15-6	6 M22x1,5	3/8	1.85	47	0.16	4	27	0.71	18
1C343-15-8	15 M22x1,5	1/2	2.42	61	0.17	4	27	1.29	33
1C343-18-10	18 M26x1,5	5/8	2.65	67	0.10	3	32	1.23	31
1C343-18-12	18 M26x1,5	3/4	2.80	71	0.10	3	32	1.37	35
1C343-22-12	22 M30x2	3/4	2.87	73	0.18	5	36	1.42	36
1C343-28-16	28 M36x2	1	3.35	85	0.22	6	46	1.76	45

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

## 1C443

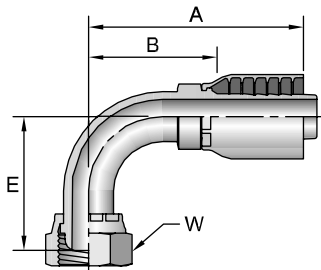
### Female Metric L - Swivel - 45° Elbow - (Ball Nose)



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

## 1C543

### Female Metric L - Swivel - 90° Elbow - (Ball Nose)



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

Metric L: Mates with EO "L" Series Fittings.

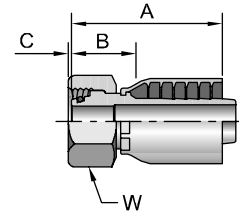
## 1CA43

### Female Metric L - Swivel - (24° Cone with O-Ring)

ISO 12151-2 - SWS

# Part Number	Thread mm	Hose I.D. inch	A		C		W mm	B	
			inch	mm	inch	mm		inch	mm
1CA43-6-4	6 M12x1,5	1/4	1.73	44	-0.02	14	0.88	22	
1CA43-8-4	8 M14x1,5	1/4	1.73	44	-0.01	17	0.88	22	
1CA43-8-5	8 M14x1,5	5/16	1.97	50	0.00	17	1.02	26	
1CA43-10-4	10 M16x1,5	1/4	1.81	46	0.04	19	0.87	22	
1CA43-10-5	10 M16x1,5	5/16	1.81	46	0.04	19	0.87	22	
1CA43-12-5	12 M18x1,5	5/16	1.81	46	0.04	22	0.91	23	
1CA43-12-6	12 M18x1,5	3/8	1.89	48	0.03	22	0.75	19	
1CA43-15-8	15 M22x1,5	1/2	2.20	56	0.07	27	0.82	21	
1CA43-18-10	18 M26x1,5	5/8	2.44	62	0.02	32	0.87	22	
1CA43-18-12	18 M26x1,5	3/4	2.56	65	0.02	32	1.02	26	
1CA43-22-12	22 M30x2	3/4	2.48	63	0.13	36	0.94	24	
1CA43-28-16	28 M36x2	1	3.07	78	0.14	41	1.30	33	
1CA43-35-20	35 M45x2	1-1/4	3.23	82	0.00	50	1.38	35	

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

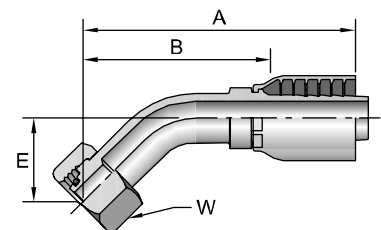


## 1CE43

### Female Metric L - Swivel - 45° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE45

# Part Number	Thread mm	Hose I.D. inch	A		E		W mm	B	
			inch	mm	inch	mm		inch	mm
1CE43-6-4	6 M12x1,5	1/4	2.68	68	0.75	19	14	1.77	45
1CE43-8-4	8 M14x1,5	1/4	2.32	59	0.63	16	17	1.38	35
1CE43-10-5	10 M16x1,5	5/16	2.64	67	0.59	15	19	1.69	43
1CE43-10-6	10 M16x1,5	3/8	2.95	75	0.75	19	19	1.85	47
1CE43-12-6	12 M18x1,5	3/8	2.72	69	0.75	19	22	1.53	39
1CE43-15-8	15 M22x1,5	1/2	3.19	81	0.87	22	27	1.81	46
1CE43-18-10	18 M26x1,5	5/8	3.50	89	0.91	23	32	1.93	49
1CE43-22-12	22 M30x2	3/4	3.86	98	1.02	26	36	2.28	58

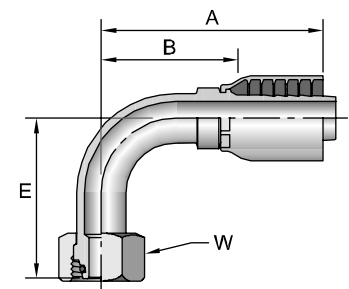


## 1CF43

### Female Metric L - Swivel - 90° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE

# Part Number	Thread mm	Hose I.D. inch	A		E		W mm	B	
			inch	mm	inch	mm		inch	mm
1CF43-8-4	8 M14x1,5	1/4	2.01	51	1.14	29	17	1.10	28
1CF43-10-5	10 M16x1,5	5/16	2.40	61	1.16	29	19	1.46	37
1CF43-10-6	10 M16x1,5	3/8	2.56	65	1.38	35	19	1.46	37
1CF43-12-5	12 M18x1,5	5/16	2.40	61	1.18	30	22	1.46	37
1CF43-12-6	12 M18x1,5	3/8	2.52	64	1.42	36	22	1.38	35
1CF43-15-8	15 M22x1,5	1/2	2.80	71	1.69	43	27	1.46	37
1CF43-18-10	18 M26x1,5	5/8	3.17	81	1.77	45	32	1.61	41
1CF43-22-12	22 M30x2	3/4	3.50	89	2.17	55	36	1.93	49
1CF43-35-20	35 M45x2	1-1/4	5.12	130	3.11	79	50	3.27	83

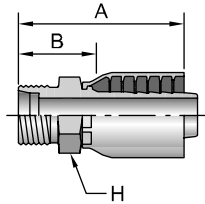


Metric L: Mates with EO "L" Series Fittings.

## 1D243

### Male Metric S - Rigid - (24° Cone)

ISO 12151-2

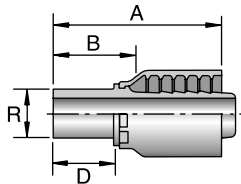


# Part Number	Thread mm	Hose I.D. inch	A inch mm		H mm	B inch mm	
1D243-8-4	8 M16x1,5	1/4	1.73	44	17	0.87	22
1D243-10-4	10 M18x1,5	1/4	1.73	44	19	0.87	22
1D243-12-5	12 M20x1,5	5/16	2.20	56	22	1.29	33
1D243-12-6	12 M20x1,5	3/8	1.97	50	22	1.02	26
1D243-14-6	14 M22x1,5	3/8	2.17	55	22	0.98	25
1D243-16-8	16 M24x1,5	1/2	2.36	60	24	1.17	30
1D243-20-10	20 M30x2	5/8	2.95	75	30	1.44	37
1D243-25-12	25 M36x2	3/4	2.87	73	36	1.30	33
1D243-30-16	30 M42x2	1	3.39	86	46	1.54	39

## 13D43

### Male Standpipe Metric S - Rigid

End Connection per ISO 8434-1-SDS

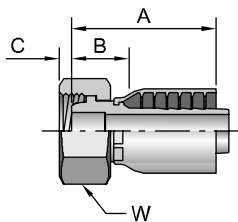


# Part Number	R mm	Hose I.D. inch	A inch mm		D inch mm		B inch mm	
13D43-10-4	10	1/4	2.13	54	1.02	26	1.26	32
13D43-12-5	12	5/16	2.52	64	1.02	26	1.61	41
13D43-14-6	14	3/8	2.52	64	1.14	29	1.38	35
13D43-16-8	16	1/2	2.68	68	1.18	30	1.42	36
13D43-20-10	20	5/8	3.39	86	1.42	36	1.88	48
13D43-20-12	20	3/4	3.19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

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.

## 1C643

### Female Metric S - Swivel - (Ball Nose)



# Part Number	Thread mm	Hose I.D. inch	A inch mm		C inch mm		W mm	B inch mm	
1C643-8-4	8 M16x1,5	1/4	1.57	40	0.15	4	19	1.20	30
1C643-10-4	10 M18x1,5	1/4	1.63	41	0.10	3	22	1.20	30
1C643-12-5	12 M20x1,5	5/16	1.87	47	0.08	2	24	1.20	30
1C643-12-6	12 M20x1,5	3/8	1.76	45	0.08	2	24	1.32	34
1C643-12-8	12 M20x1,5	1/2	2.18	55	0.08	2	24	1.30	33
1C643-14-6	14 M22x1,5	3/8	1.94	49	0.17	4	27	1.32	34
1C643-16-8	16 M24x1,5	1/2	2.13	54	0.19	5	30	1.39	35
1C643-20-10	20 M30x2	5/8	2.38	60	0.21	5	36	1.39	35
1C643-20-12	20 M30x2	3/4	2.46	62	0.21	5	40	1.03	37
1C643-25-12	25 M36x2	3/4	2.48	63	0.28	7	46	1.56	40
1C643-30-16	30 M42x2	1	2.89	73	0.37	9	50	1.95	50

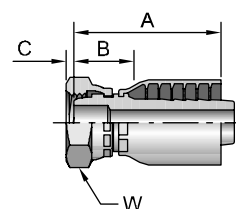
Metric L: Mates with EO "L" Series Fittings.

Metric S: Mates with EO "S" Series Fittings.

## 1C043

### Female Metric - Swivel - (Ball Nose)

# Part Number	Thread		Hose I.D. inch	A		C		W mm	B	
	mm			inch	mm	inch	mm		inch	mm
1C043-20-12	20	M30x1,5	3/4	2.48	63	0.21	5	36	0.94	24
1C043-25-16	25	M38x1,5	1	2.99	76	0.28	7	46	1.14	29

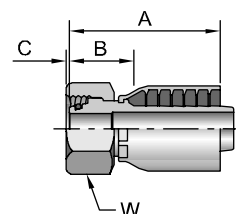


## 1C943

### Female Metric S - Swivel - (24° Cone with O-Ring)

ISO 12151-2 - SWS

# Part Number	Thread		Hose I.D. inch	A		C		W mm	B	
	mm			inch	mm	inch	mm		inch	mm
1C943-6-4	6	M14x1,5	1/4	1.89	48	0.01	0	17	1.02	26
1C943-8-4	8	M16x1,5	1/4	1.77	45	0.01	0	19	0.91	23
1C943-10-4	10	M18x1,5	1/4	1.81	46	0.01	0	22	0.87	22
1C943-10-5	10	M18x1,5	5/16	1.85	47	0.01	0	22	0.87	22
1C943-10-6	10	M18x1,5	3/8	1.97	50	0.01	0	22	0.83	21
1C943-12-5	12	M20x1,5	5/16	1.89	48	0.03	1	24	0.94	24
1C943-12-6	12	M20x1,5	3/8	2.05	52	0.03	1	24	0.87	22
1C943-14-6	14	M22x1,5	3/8	1.97	50	0.03	1	27	0.83	21
1C943-16-8	16	M24x1,5	1/2	2.33	59	0.09	2	30	0.94	24
1C943-20-10	20	M30x2	5/8	2.59	66	0.05	1	36	1.06	27
1C943-20-12	20	M30x2	3/4	2.59	66	0.05	1	36	1.06	27
1C943-25-12	25	M36x2	3/4	2.67	68	0.10	3	46	1.10	28
1C943-25-16	25	M36x2	1	3.07	78	0.08	2	46	1.30	33
1C943-30-16	30	M42x2	1	3.03	77	0.19	5	50	1.26	32
1C943-38-20	38	M52x2	1-1/4	3.15	80	0.23	6	60	1.30	33



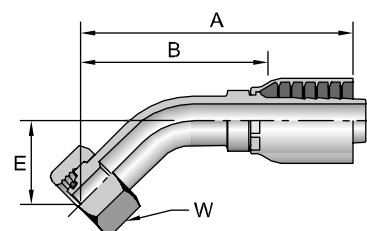
## 10C43

### Female Metric S - Swivel - 45° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE45

# Part Number	Thread		Hose I.D. inch	A		E		W mm	B	
	mm			inch	mm	inch	mm		inch	mm
10C43-8-4	8	M16x1,5	1/4	2.32	59	0.63	16	19	1.38	35
10C43-12-5	12	M20x1,5	5/16	2.80	71	0.67	17	24	1.85	47
10C43-12-6	12	M20x1,5	3/8	2.72	69	0.79	20	24	1.57	40
10C43-16-8	16	M24x1,5	1/2	3.23	82	0.94	24	30	1.89	48
10C43-20-10	20	M30x2	5/8	3.58	91	0.98	25	36	2.05	52
10C43-20-12	20	M30x2	3/4	3.94	100	1.14	29	36	2.36	60
10C43-25-12	25	M36x2	3/4	3.97	101	1.18	30	46	2.40	61
10C43-30-16	30	M42x2	1	4.96	126	1.42	36	50	3.11	79
10C43-38-20^^	38	M52x2	1-1/4	5.59	142	1.50	38	60	3.74	95

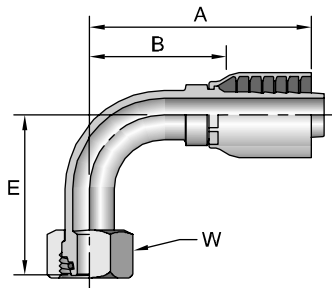
^^Must be assembled with Die Part No. 83C-A20H in a Superkrimp or Parkrimp 2.





## 11C43

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

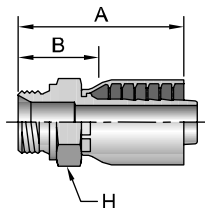


#	Thread	Hose I.D.	A		E		W	B	
Part Number	mm	inch	inch	mm	inch	mm	mm	inch	mm
11C43-8-4	8 M16x1,5	1/4	1.89	48	1.14	29	19	1.02	26
11C43-10-4	10 M18x1,5	1/4	1.97	50	1.14	29	22	1.02	26
11C43-12-5	12 M20x1,5	5/16	2.36	60	1.26	32	24	1.42	36
11C43-12-6	12 M20x1,5	3/8	2.56	65	1.46	37	24	1.38	35
11C43-14-6	14 M22x1,5	3/8	2.56	65	1.46	37	27	1.38	35
11C43-16-8	16 M24x1,5	1/2	2.83	72	1.77	45	30	1.46	37
11C43-20-10	20 M30x2	5/8	3.11	79	1.89	48	36	1.57	40
11C43-25-12	25 M36x2	3/4	3.50	89	2.32	59	46	1.93	49
11C43-30-16	30 M42x2	1	4.53	115	2.99	76	50	2.68	68
11C43-38-20^^	38 M52x2	1-1/4	5.12	130	3.15	80	60	3.27	83

^^Must be assembled with Die Part No. 83C-A20H in a Superkrimp or Parkrimp 2.

## 1D943

**Male BSP Parallel Pipe - Rigid - (60° Cone)**  
ISO 12151-6

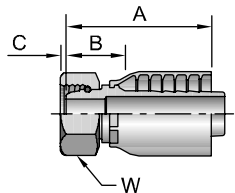


#	Thread	Hose I.D.	A		H	B	
Part Number	inch	inch	inch	mm	mm	inch	mm
1D943-4-4	1/4x19	1/4	1.77	45	19	0.91	23
1D943-6-5	3/8x19	5/16	2.13	54	22	1.22	31
1D943-6-6	3/8x19	3/8	2.13	54	22	1.22	31
1D943-8-6	1/2x14	3/8	2.36	60	27	1.22	31
1D943-8-8	1/2x14	1/2	2.44	62	27	1.10	28
1D943-12-12	3/4x14	3/4	2.76	70	32	1.18	30
1D943-16-16	1x11	1	3.23	82	41	1.38	35

When used in a port, a bonded seal must be used. See Accessories Section for more information.

## 19243

**Female BSP Parallel Pipe - Swivel - (60° Cone)**  
ISO 12151-6



#	Thread	Hose I.D.	A		C		W	B	
Part Number	inch	inch	inch	mm	inch	mm	mm	inch	mm
19243-2-4	1/8x28	1/4	1.61	41	0.20	5	14	0.67	17
19243-4-4	1/4x19	1/4	1.95	50	0.22	6	19	1.20	30
19243-6-4	3/8x19	1/4	1.73	44	0.26	7	22	0.79	20
19243-6-6	3/8x19	3/8	2.35	60	0.26	7	22	1.32	34
19243-6-8	3/8x19	1/2	2.17	55	0.26	7	22	0.79	20
19243-8-6	1/2x14	3/8	2.01	51	0.28	7	27	0.87	22
19243-8-8	1/2x14	1/2	2.72	69	0.28	7	27	1.46	37
19243-10-8	5/8x14	1/2	2.80	71	0.37	9	30	1.54	39
19243-10-10	5/8x14	5/8	2.99	76	0.37	9	30	1.55	39
19243-12-10	3/4x14	5/8	3.11	79	0.35	9	36	1.67	42
19243-12-12	3/4x14	3/4	3.19	81	0.35	9	36	1.75	44
19243-16-16	1x11	1	3.67	93	0.44	11	41	2.05	52
19243-20-20	1-1/4x3	1-1/4	3.11	79	0.41	11	50	1.26	32

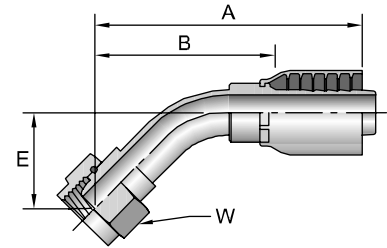
When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

## 1B143

### Female BSP Parallel Pipe - Swivel - 45° Elbow - (60° Cone)

ISO 12151-6

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

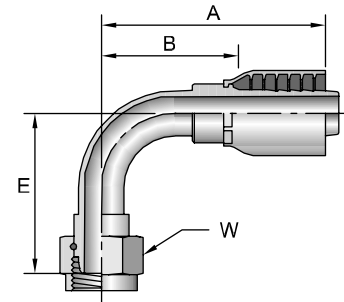


## 1B243

### Female BSP Parallel Pipe - Swivel - 90° Elbow - (60° Cone)

ISO 12151-6

#			A		E		W	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	mm	inch	mm
1B243-2-4	1/8x28	1/4	1.97	50	1.10	28	14	1.02	26
1B243-4-4	1/4x19	1/4	1.83	46	1.12	28	19	1.08	27
1B243-6-6	3/8x19	3/8	2.32	59	1.46	37	22	1.32	34
1B243-8-6	1/2x14	3/8	2.60	66	1.38	35	27	1.46	37
1B243-8-8	1/2x14	1/2	2.95	75	1.57	40	27	1.57	40
1B243-10-8	5/8x14	1/2	2.91	74	1.57	40	30	1.54	39
1B243-10-10	5/8x14	5/8	3.13	80	1.57	40	30	1.72	44
1B243-12-10	3/4x14	5/8	3.62	92	2.32	59	32	2.05	52
1B243-12-12	3/4x14	3/4	3.58	91	2.32	59	32	2.00	51
1B243-16-16	1x11	1	4.33	110	2.48	63	41	2.56	65
1B243-20-20	1-1/4x11	1-1/4	4.72	120	2.99	76	50	2.87	73

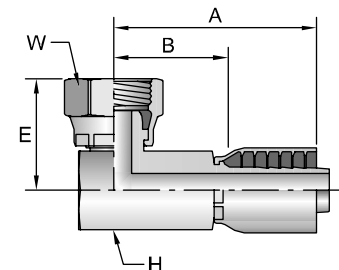


## 1B443

### Female BSP Parallel Pipe - Swivel - 90° Elbow - Block Type - (60° Cone)

ISO 228-1

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



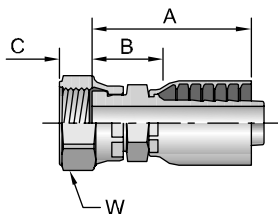
Metric S: Mates with EO "S" Series Fittings.

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

## 1B543

### Female BSP Parallel Pipe - Swivel - (Flat Seat)

ISO 228-1

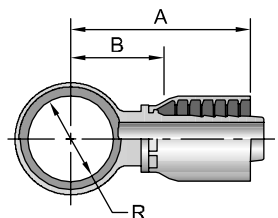


# Part Number	Thread inch	Hose I.D. inch	A inch mm		C inch mm		W mm	B inch mm	
1B543-6-6	3/8x19	3/8	1.93	49	0.35	9	22	0.79	20
1B543-8-6	1/2x14	3/8	1.89	48	0.43	11	27	0.75	19
1B543-8-8	1/2x14	1/2	2.28	58	0.43	11	27	0.94	24
1B543-12-12	3/4x14	3/4	2.28	58	0.33	8	32	0.94	24

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

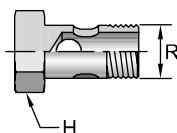
## 14943

### DIN Metric Banjo



# Part Number	R mm	Hose I.D. inch	A inch mm		B inch mm	
14943-10-4	10		1.85	47	0.94	24
14943-12-4	12	1/4	1.85	47	0.98	25
14943-14-5	14	5/16	2.01	51	1.06	27
14943-16-6	16	3/8	2.28	58	1.14	29
14943-18-8	18	1/2	2.60	66	1.22	31
14943-22-10	22	5/8	2.91	74	1.38	35
14943-26-12	26	3/4	3.07	78	1.54	39

### AM Banjo Bolt w/DIN Metric Thread



# Part Number	R Thread mm	H mm	Copper Washer 2
AM-03	8	M8x1	853009-8
AM-04	10	M10x1	853009-10
AM-06	12	M12x1,5	853009-12
AM-08	14	M14x1,5	853009-14
AM-10	16	M16x1,5	853009-16
AM-13	18	M18x1,5	853009-18
AM-16	22	M22x1,5	853009-22
AM-20	26	M26x1,5	853009-26
AM-30	30	M30x1,5	853009-30

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

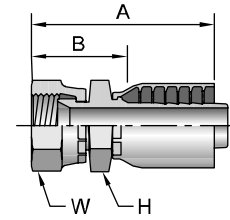
Metric S: Mates with EO "S" Series Fittings.

## 1MU43

### Female Metric - Swivel - (30° Flare)

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

Japanese Fittings - Female Swivel 30° Flare with Metric Threads. All 30° flared fitting sizes are available by combining the 1MU43 fittings in sizes up to -8 with the 1XU43 fittings in sizes -10 and larger.

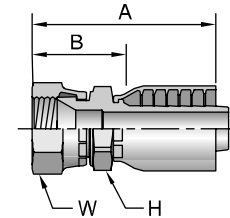


## 1XU43

### Female Metric - Swivel - (30° Flare)

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

Japanese Fittings - Female Swivel 30° Flare with Metric Threads. All 30° flared fitting sizes are available by combining the 1MU43 fittings in sizes up to -8 with the 1XU43 fittings in sizes -10 and larger.

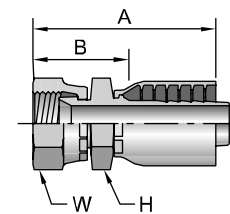


## 1FU43

### Female BSP Parallel Pipe - Swivel - (30° Flare)

B8363 Code F

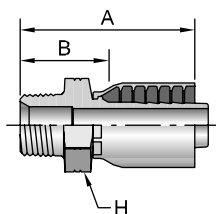
# Part Number	Thread inch	Hose I.D. inch	A		H mm	W mm	B	
			inch	mm			inch	mm
1FU43-4-4	1/4x19	1/4	1.90	48	19	19	1.15	29
1FU43-6-6	3/8x19	3/8	2.32	59	22	22	1.29	33
1FU43-8-8	1/2x14	1/2	2.66	68	27	27	1.40	36
1FU43-12-12	3/4x14	3/4	3.06	78	36	36	1.62	41
1FU43-16-16	1x11	1	3.53	90	41	41	1.91	49
1FU43-20-20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



## 1UT43

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

B8363 Code R

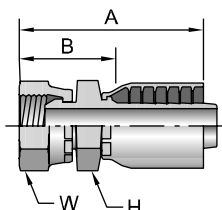


# Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	mm	inch	mm
1UT43-4-4	1/4x19	1/4	1.92	49	19	1.17	30
1UT43-6-6	3/8x19	3/8	2.25	57	22	1.22	31
1UT43-8-8	1/2x14	1/2	2.68	68	27	1.42	36
1UT43-12-12	3/4x14	3/4	2.96	75	36	1.53	39
1UT43-16-16	1x11	1	3.48	88	41	1.86	47
1UT43-20-20	1-1/4x11	1-1/4	3.75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

## 1GU43

### Female BSP Parallel Pipe - Swivel - (60° Cone)

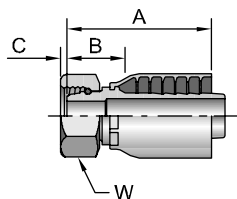
B8363 Code C



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

## 1F443

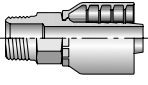
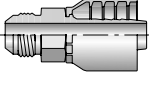
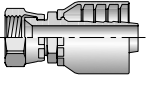
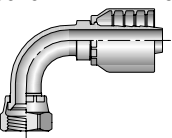
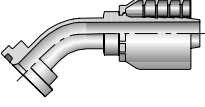
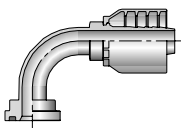
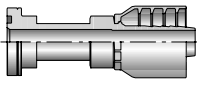
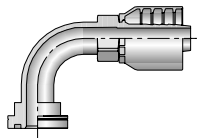
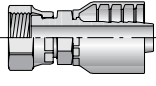
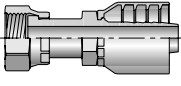
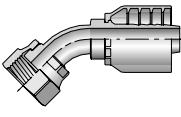
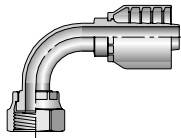
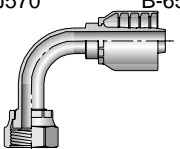
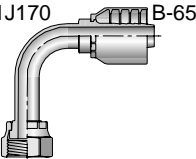
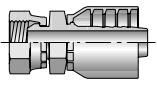
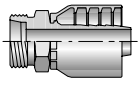
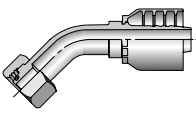
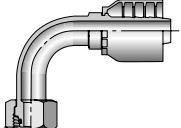
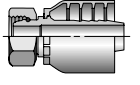
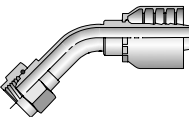
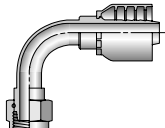
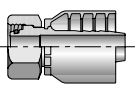
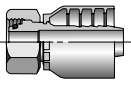
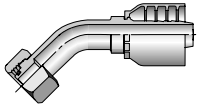
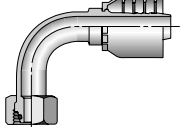
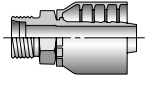
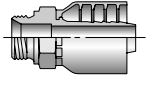
### Female French Gaz Series - Swivel - (Ball Nose)



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

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



<b>NPTF Pipe</b>	10170 B-62  Male - Rigid	<b>JIC 37°</b>	10370 B-62  Male - Rigid	10670 B-62  Female - Swivel	13970 B-62  Female - Swivel 90° Elbow - Short
<b>Code 61 Flange</b>	11770 B-63  45° Elbow	11970 B-63  90° Elbow	<b>Code 62 Flange</b>	16A70 B-63  Flange Head	16N70 B-64  90° Elbow
<b>Seal-Lok® (O-Ring Face Seal)</b>	1JC70 B-64  Female - Swivel Short	1JS70 B-64  Female - Swivel Long	1J770 B-64  Female - Swivel 45° Elbow	1J970 B-65  Female - Swivel 90° Elbow - Short	1J570 B-65  Female - Swivel 90° Elbow - Medium
1J170 B-65  Female - Swivel 90° Elbow - Long	<b>BSP 60° Cone</b>	1GU70 B-66  Female - Swivel	<b>French Gaz</b>	1FG70 B-66  Male - Rigid	<b>Metric</b>
10C70 B-67  Female Metric S - Swivel - 45° Elbow	11C70 B-67  Female Metric S - Swivel - 90° Elbow	19270 B-67  Female BSP - Swivel - 60° Cone	1B170 B-67  Female BSP - Swivel - 45° Elbow	1B270 B-68  Female BSP - Swivel - 90° Elbow	1C970 B-68  Female - Swivel
1CA70 B-68  Female Metric L - Swivel - 24° Cone	1CE70 B-68  Female Metric L - Swivel - 45° Elbow	1CF70 B-69  Female Metric L - Swivel - 90° Elbow	1D270 B-69  Male Metric S - Rigid	1D970 B-69  Male - BSP - Rigid	

A

B

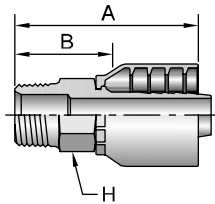
C

D

E

## 10170

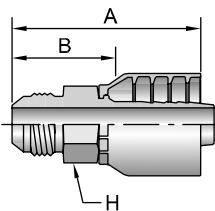
### Male NPTF Pipe - Rigid



# Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	inch	inch	mm
10170-6-6	3/8x18	3/8	2.37	60	3/4	1.47	37
10170-8-8	1/2x14	1/2	2.84	72	7/8	1.40	36

## 10370

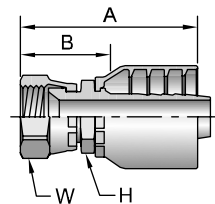
### Male JIC 37° - Rigid



# Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	inch	inch	mm
10370-8-8	1/2 3/4x16	1/2	2.68	68	7/8	1.47	37
10370-10-8	5/8 7/8x14	1/2	2.62	66	15/16	1.41	36

## 10670

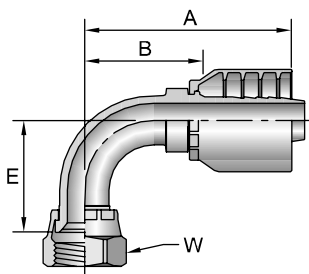
### Female JIC 37° - Swivel



# Part Number	Thread inch		Hose I.D. inch	A		H	W	B	
				inch	mm	inch	inch	inch	mm
10670-6-6	3/8	9/16x18	3/8	2.29	58	11/16	11/16	1.39	35
10670-8-8	1/2	3/4x16	1/2	2.62	67	13/16	7/8	1.41	36
10670-10-8	5/8	7/8x14	1/2	2.85	72	7/8	1	1.64	42
10670-10-10	5/8	7/8x14	5/8	2.84	72	15/16	1	1.59	40

## 13970

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






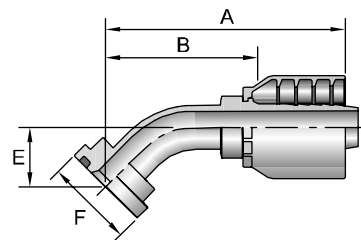
# Part Number	Thread inch		Hose I.D. inch	A		E		W	B	
				inch	mm	inch	mm	inch	inch	mm
13970-8-8	1/2	3/4x16	1/2	2.62	67	1.14	29	7/8	1.41	36

## 11770

### SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3 - 45S - L




#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
11770-8-8	1/2	1/2	3.28	83	0.77	20	1-3/16	2.07	53
11770-12-10	3/4	5/8	3.37	86	0.76	19	1-1/2	2.12	54

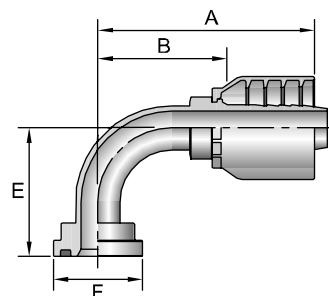


## 11970

### SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3 - E90S - L




#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
11970-8-8	1/2	1/2	2.93	74	1.60	41	1-3/16	1.72	44
11970-12-10	3/4	5/8	3.54	90	2.02	51	1-1/2	2.29	58

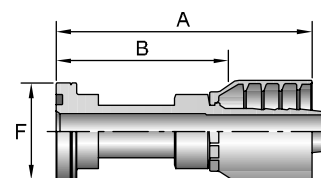


## 16A70

### SAE Code 62 Flange Head

ISO 12151-3 - S - S

#			A			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm
16A70-8-8	1/2	1/2	3.50	88,9	1-1/4	2.29	56,9

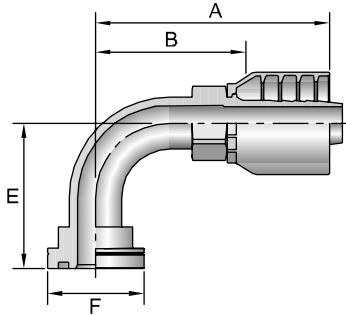




See Accessories Section for O-Rings and Flange Kits.

## 16N70

### SAE Code 62 Flange Head - 90° Elbow

ISO 12151-3 - E90S - S ( 1 Piece: ISO 12151-3 - E90M - S)

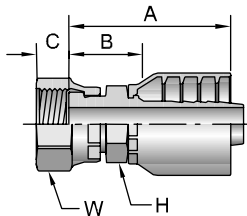






#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
16N70-8-8	1/2	1/2	2.60	66	1.61	41	1-1/4	1.34	34

## 1JC70

### Female Seal-Lok® - Swivel - Short

ISO 12151- 1 - SWSA

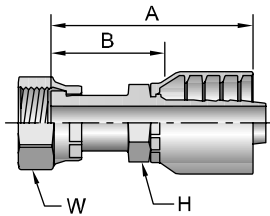






#			A		C				B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	inch	mm
1JC70-6-6	3/8 11/16x16	3/8	1.94	49	0.34	9	11/16	13/16	1.04	26
1JC70-8-6	1/2 13/16x16	3/8	2.00	51	0.43	11	13/16	15/16	1.10	28
1JC70-8-8	1/2 13/16x16	1/2	2.22	56	0.43	11	13/16	15/16	1.01	26
1JC70-10-10	5/8 1x14	5/8	2.40	61	0.53	13	15/16	1-1/8	1.15	29

## 1JS70

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

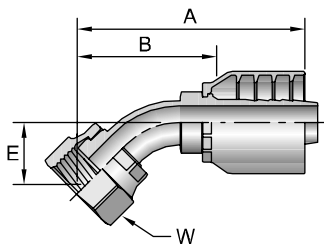





#			A		C				B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	inch	mm
1JS70-6-6	3/8 11/16x16	3/8	2.28	58	11/16	13/16	1.38	35		
1JS70-8-8	1/2 13/16x16	1/2	2.65	67	13/16	15/16	1.44	37		
1JS70-12-8	3/4 1-3/16x12	1/2	2.90	74	1-1/8	1-3/8	1.69	43		
1JS70-12-10	3/4 1-3/16x12	5/8	3.10	79	1-1/8	1-3/8	1.85	47		

## 1J770

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45



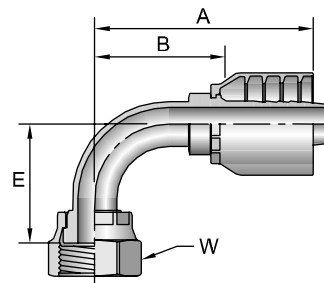
#			A		E			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1J770-10-10	5/8 1x14	5/8	3.08	78	0.63	16	1-1/8	1.83	46

See Accessories Section for O-Rings and Flange Kits.

## 1J970

**Female Seal-Lok® - Swivel - 90° Elbow - Short Drop**  
 ISO 12151-1 - SWES90

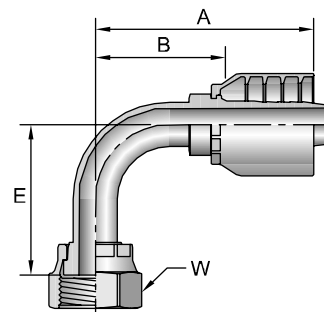
#				A		E		W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	mm
1J970-8-8	1/2 13/16x16	1/2		2.59	66	1.14	29	15/16	1.38	35
1J970-12-8	3/4 1-3/16x12	1/2		3.21	82	1.88	48	1-3/8	2.00	51



## 1J570

**Female Seal-Lok® - Swivel - 90° Elbow - Medium Drop**  
 ISO 12151-1 - SWEM90

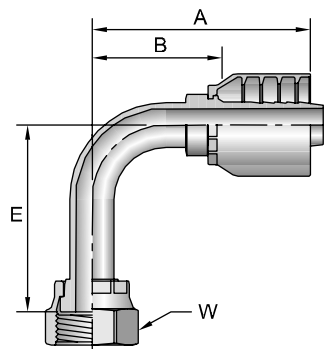
#				A		E		W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	mm
1J570-10-10	5/8 1x14	5/8		2.88	73	1.85	47	1-1/8	1.63	41



## 1J170

**Female Seal-Lok® - Swivel - 90° Elbow - Long Drop**  
 ISO 12151-1 - SWEL90

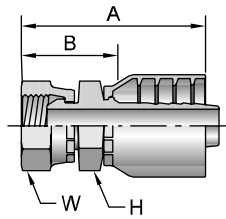
#				A		E		W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	mm
1J170-8-8	1/2 13/16x16	1/2		2.59	66	2.52	65	15/16	1.38	35
1J170-10-10	5/8 1x14	5/8		2.88	73	2.76	70	1-1/8	1.63	41



See Accessories Section for O-Rings and Flange Kits.

## 1GU70

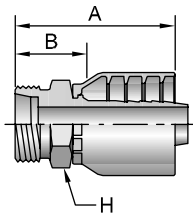
Female BSP Parallel Pipe - Swivel - (60° Cone)



#								
Part Number	Thread	Hose I.D.	A		H	W	B	
	Inch	inch	inch	mm	mm	inch	inch	mm
1GU70-6-6	3/8x19	3/8	2.45	62	22	NA	1.55	39
1GU70-8-8	1/2x14	1/2	2.82	72	27	NA	1.61	41

## 1FG70

Male French Gaz Series - Rigid - (24° Cone)



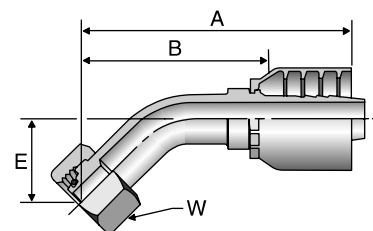
#								
Part Number	Thread	Hose I.D.	A		H		B	
	mm	inch	inch	mm	inch	mm	inch	mm
1FG70-21-10	21 M30x1,5	5/8	2.87	73	1.18	30	1.62	41



## 10C70

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

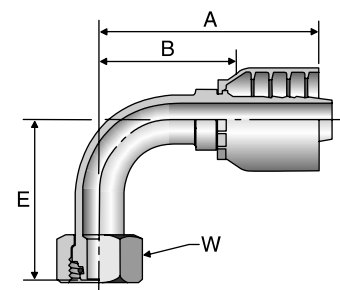
# Part Number	Thread mm	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
10C70-12-6	12 M20x1,5	3/8	2.72	69	0.79	20	24	1.57	40
10C70-16-8	16 M24x1,5	1/2	3.27	83	0.94	24	30	1.89	48
10C70-20-10	20 M30x2	5/8	3.58	91	0.98	25	36	2.05	52



## 11C70

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

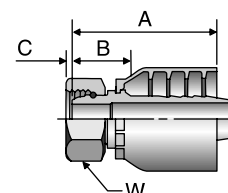
# Part Number	Thread mm	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
11C70-12-6	12 M20X1,5	3/8	2.64	67	1.46	37	24	1.50	38
11C70-20-10	20 M30X2	5/8	3.11	79	1.89	48	36	1.57	40



## 19270

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

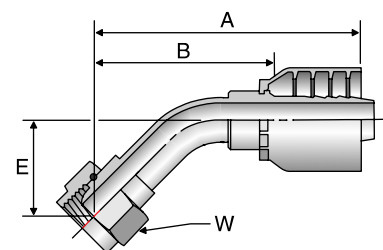
# Part Number	Thread inch	Hose I.D. inch	A		C		W	B	
			inch	mm	inch	mm	mm	inch	mm
19270-6-6	3/8x19	3/8	1.93	49	0.28	7	22	0.79	20
19270-8-8	1/2x14	1/2	2.24	57	0.28	7	27	0.87	22
19270-10-10	5/8x14	5/8	2.24	57	0.35	9	30	0.83	21
19270-12-10	3/4x14	5/8	2.40	61	0.35	9	32	0.87	22



## 1B170

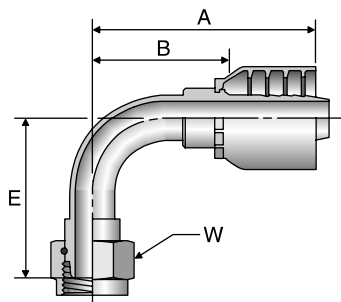
**Female BSP Parallel pipe - Swivel- 45° Elbow - (60° Cone)**  
ISO 228-1

# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
1B170-8-8	1/2x14	1/2	3.11	79	0.79	20	27	1.77	45



## 1B270

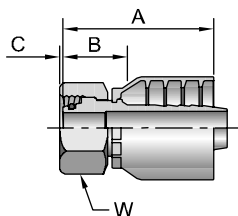
**Female BSP Parallel Pipe - Swivel - 90° Elbow - (60° Cone)**  
ISO 228-1



# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
1B270-8-8	1/2x14	1/2	2.76	70	1.54	39	27	1.38	35
1B270-10-10	5/8x14	5/8	3.07	78	1.81	46	30	1.61	41
1B270-12-10	3/4x14	5/8	3.19	81	1.65	42	32	1.61	41

## 1C970

**Female Metric S - Swivel - (24° Cone with O-Ring)**

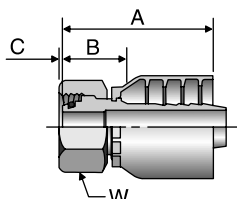


# Part Number	Thread mm	Hose I.D. inch	A		C		W	B	
			inch	mm	inch	mm	mm	inch	mm
1C970-12-6	12 M20x1,5	3/8	2.03	52	0.03	1	24	1.13	29
1C970-16-8	16 M24x1,5	1/2	2.31	59	0.09	2	30	1.10	28
1C970-20-10	20 M30x2	5/8	2.51	64	0.05	1	36	1.26	32

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

## 1CA70

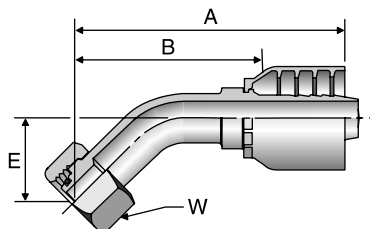
**Female Metric L - Swivel - (24° Cone with O-Ring)**  
ISO 12151-2 - SWS



# Part Number	Thread mm	Hose I.D. inch	A		C		W	B	
			inch	mm	inch	mm	mm	inch	mm
1CA70-12-6	12 M18x1,5	3/8	2.09	53	0.04	1	22	0.94	24
1CA70-15-8	15 M22x1,5	1/2	2.09	62	0.07	2	22	0.94	27
1CA70-18-10	18 M26x1,5	5/8	2.44	62	0.02	0.5	32	1.02	26

## 1CE70

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



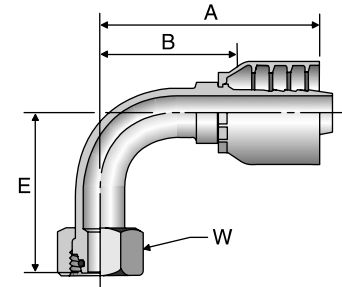
# Part Number	Thread mm	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
1CE70-18-10	18 M26x1,5	5/8	3.58	91	0.98	25	32	2.05	52

## 1CF70

**Female Metric L - Swivel - 90° Elbow - (24° Cone with O-Ring)**

ISO 12151-2 - SWE

# Part Number	Thread mm	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
1CF70-15-8	15 M22x1,5	1/2	2.91	74	1.77	45	27	1.54	39
1CF70-18-10	18 M26x1,5	5/8	3.11	79	1.93	49	32	1.65	42

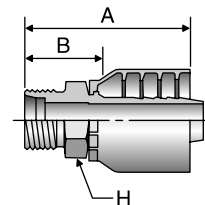


## 1D270

**Male Metric S - Rigid - (24° Cone )**

ISO 12151-2

# Part Number	Thread mm	Hose I.D. inch	A		H	B	
			inch	mm	mm	inch	mm
1D270-16-8	16 M24x1,5	1/2	2.44	62	24	1.10	28
1D270-20-10	20 M30x2	5/8	2.95	75	30	1.26	32

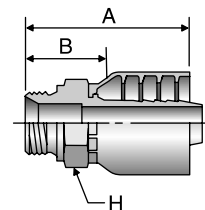


## 1D970

**Male BSP Parallel Pipe - Rigid - (60° Cone)**

ISO 228-1

# Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	mm	inch	mm
1D970-8-8	1/2x14	1/2	2.44	62	27	1.10	28



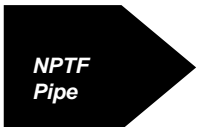
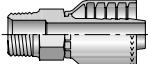

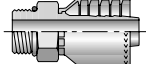

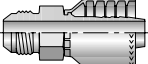
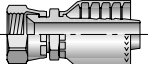
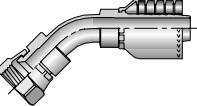
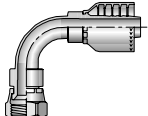
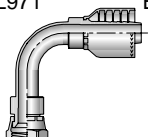
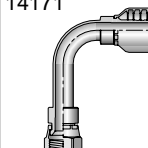

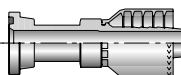
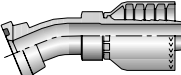
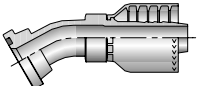
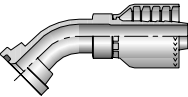
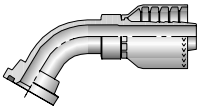
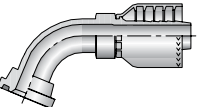
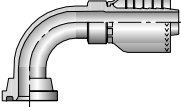
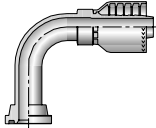
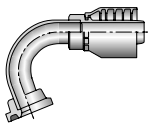

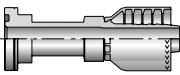
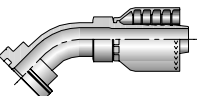
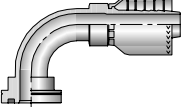

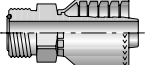
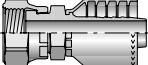
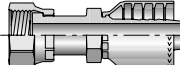
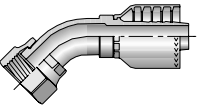
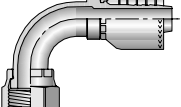
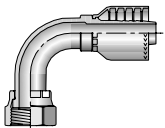
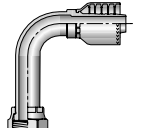

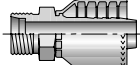
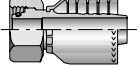

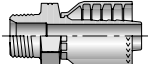
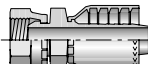
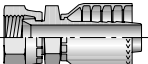
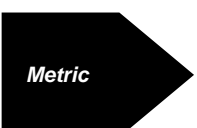
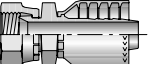
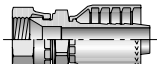
A

B

C

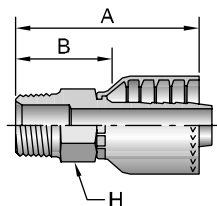
D

E

 <b>NPTF Pipe</b>	10171 B-72  <i>Male - Rigid</i>	 <b>SAE</b>	10571 B-72  <i>Male - Rigid</i>	 <b>JIC</b>	10371 B-72  <i>Male - Rigid</i>
10671 B-73  <i>Female - Swivel</i>	13771 B-73  <i>Female - Swivel 45° Elbow - Short</i>	13971 B-74  <i>Female - Swivel 90° Elbow - Short</i>	1L971 B-74  <i>Female - Swivel 90° Elbow - Medium</i>	14171 B-74  <i>Female - Swivel 90° Elbow - Long</i>	 <b>Code 61 Flange</b>
11571 B-75  <i>Flange</i>	11671 B-75  <i>22-1/2° Elbow</i>	12671 B-76  <i>30° Elbow</i>	11771 B-76  <i>45° Elbow</i>	12771 B-76  <i>60° Elbow</i>	11871 B-77  <i>67-1/2° Elbow</i>
11971 B-77  <i>90° Elbow</i>	18971 B-78  <i>90° Elbow-Long</i>	12U71 B-78  <i>110° Elbow</i>	 <b>Code 62 Flange</b>	16A71 B-78  <i>Flange</i>	16F71 B-78  <i>45° Elbow</i>
16N71 B-79  <i>90° Elbow</i>	 <b>Seal-Lok® (O-Ring Face Seal)</b>	1J071 B-79  <i>Male - Rigid</i>	1JC71 B-79  <i>Female - Swivel Short</i>	1JS71 B-80  <i>Female - Swivel Long</i>	1J771 B-80  <i>Female - Swivel 45° Elbow</i>
1J971 B-81  <i>Female - Swivel 90° Elbow - Short</i>	1J571 B-81  <i>Female - Swivel 90° Elbow - Medium</i>	1J171 B-81  <i>Female - Swivel 90° Elbow - Long</i>	 <b>Metric "S"</b>	1D271 B-82  <i>Male - Rigid</i>	1C971 B-82  <i>Female - Swivel</i>
 <b>BSP</b>	1UT71 B-82  <i>Male - Rigid</i>	1GU71 B-82  <i>Female - Swivel</i>	1FU71 B-83  <i>Female - Swivel</i>	 <b>Metric</b>	1MU71 B-83  <i>Female - Swivel</i>
1XU71 B-83  <i>Female - Swivel</i>					

## 10171

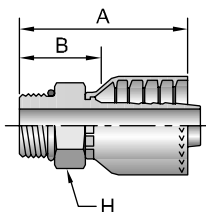
### Male NPTF Pipe - Rigid



# Part Number	Thread inch	Hose I.D. inch	A		H inch	B	
			inch	mm		inch	mm
10171-6-6	3/8x18	3/8	2.36	60	3/4	1.47	37
10171-8-8	1/2x14	1/2	2.82	72	7/8	1.63	41
10171-12-8	3/4x14	1/2	2.67	68	1-1/16	1.47	37
10171-12-12	3/4x14	3/4	3.08	78	1-1/16	1.71	43
10171-16-12	1x11-1/2	3/4	3.08	78	1-3/8	1.72	44
10171-16-16	1x11-1/2	1	3.63	92	1-3/8	2.04	52
10171-20-16	1-1/4x11-1/2	1	3.49	89	1-11/16	1.90	48
10171-20-20	1-1/4x11-1/2	1-1/4	4.06	103	1-3/4	2.39	61
10171-24-20	1-1/2x11-1/2	1-1/4	3.77	96	2	2.10	53
10171-24-24	1-1/2x11-1/2	1-1/2	4.32	110	2	2.19	56
10171-32-32	2x11-1/2	2	4.66	118	2-1/2	2.52	64

## 10571

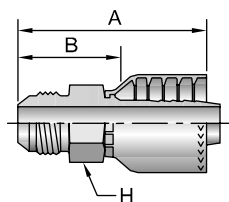
### Male SAE Straight Thread with O-Ring - Rigid



# Part Number	Thread inch		Hose I.D. inch	A		H inch	B	
				inch	mm		inch	mm
10571-8-8	1/2	3/4x16	1/2	2.44	62	7/8	1.25	32
10571-12-12	3/4	1-1/16x12	3/4	2.79	71	1-1/4	1.43	36
10571-16-16	1	1-5/16x12	1	3.42	87	1-1/2	1.77	45
10571-20-20	1-1/4	1-5/8x12	1-1/4	3.67	93	1-7/8	2.00	51

## 10371

### Male JIC 37° - Rigid



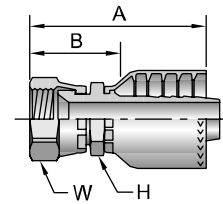
# Part Number	Thread inch		Hose I.D. inch	A		H inch	B	
				inch	mm		inch	mm
10371-6-6	3/8	9/16x18	3/8	2.44	62	3/4	1.55	39
10371-8-6	1/2	3/4x16	3/8	2.29	58	7/8	1.40	36
10371-8-8	1/2	3/4x16	1/2	2.66	68	7/8	1.41	36
10371-10-8	5/8	7/8x14	1/2	2.60	66	15/16	1.41	36
10371-10-10	5/8	7/8x14	5/8	2.93	74	15/16	1.69	43
10371-12-12	3/4	1-1/16x12	3/4	3.17	80	1-1/8	1.81	46
10371-14-12	7/8	1-3/16x12	3/4	3.09	78	1-1/4	1.73	44
10371-16-12	1	1-5/16x12	3/4	3.02	77	1-3/8	1.66	42
10371-16-16	1	1-5/16x12	1	3.68	93	1-3/8	2.03	52
10371-20-16	1-1/4	1-5/8x12	1	3.43	87	1-7/8	1.84	47
10371-20-20	1-1/4	1-5/8x12	1-1/4	3.94	100	1-7/8	2.27	58



## 10671

### Female JIC 37° - Swivel

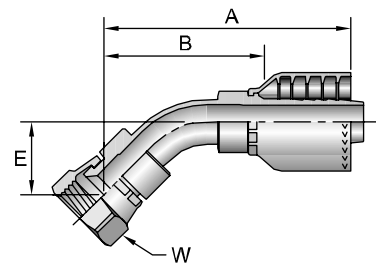
# Part Number	Thread		Hose I.D. inch	A		H inch	W inch	B		Additional Material Stainless Steel (C)
	inch			inch	mm			inch	mm	
10671-6-6	3/8	9/16x18	3/8	2.28	58	11/16	11/16	1.39	35	
10671-8-6	1/2	3/4x16	3/8	2.47	63	11/16	7/8	1.58	40	
10671-8-8	1/2	3/4x16	1/2	2.61	66	13/16	7/8	1.41	36	•
10671-10-8	5/8	7/8x14	1/2	2.84	72	7/8	1	1.64	42	
10671-10-10	5/8	7/8x14	5/8	2.83	72	15/16	1	1.58	40	
10671-10-12	5/8	7/8x14	3/4	2.92	74	1-1/16	1	1.54	39	
10671-12-8	3/4	1-1/16x12	1/2	2.75	70	1-1/16	1-1/4	1.58	40	
10671-12-10	3/4	1-1/16x12	5/8	3.00	76	1-1/16	1-1/4	1.75	44	
10671-12-12	3/4	1-1/16x12	3/4	2.96	75	1-1/16	1-1/4	1.60	41	•
10671-12-16	3/4	1-1/16x12	1	3.37	86	1-3/8	1-1/4	1.67	42	
10671-14-12	7/8	1-3/16x12	3/4	3.01	76	1-1/4	1-3/8	1.61	41	
10671-16-12	1	1-5/16x12	3/4	3.28	83	1-1/4	1-1/2	1.92	49	
10671-16-16	1	1-5/16x12	1	3.60	91	1-3/8	1-1/2	2.01	51	•
10671-20-16	1-1/4	1-5/8x12	1	3.80	97	1-5/8	2	2.21	56	
10671-20-20	1-1/4	1-5/8x12	1-1/4	3.92	100	1-7/8	2	2.25	57	•
10671-24-20	1-1/2	1-7/8x12	1-1/4	4.10	104	2-1/8	2-1/4	2.43	62	
10671-24-24	1-1/2	1-7/8x12	1-1/2	4.69	119	2-1/8	2-1/4	2.50	64	•
10671-32-32	2	2-1/2x12	2	5.39	137	2-1/2	2-7/8	3.19	81	



## 13771

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

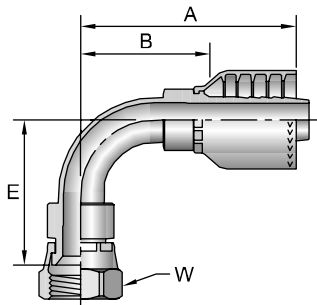
# Part Number	Thread		Hose I.D. inch	A		E		W inch	B	
	inch			inch	mm	inch	mm		inch	mm
13771-6-6	3/8	9/16x18	3/8	2.34	59	0.43	11	11/16	1.44	37
13771-8-8	1/2	3/4x16	1/2	2.83	72	0.59	15	7/8	1.62	41
13771-10-8	5/8	7/8x14	1/2	2.93	74	0.63	16	1	1.72	44
13771-10-10	5/8	7/8x14	5/8	3.08	78	0.63	16	1	1.83	46
13771-12-12	3/4	1-1/16x12	3/4	3.64	92	0.83	21	1-1/4	2.26	57
13771-16-16	1	1-5/16x12	1	4.20	107	0.90	23	1-1/2	2.61	66
13771-20-20	1-1/4	1-5/8x12	1-1/4	5.22	133	1.69	43	2	3.53	90



Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2. See CrimpSource for more information.

## 13971

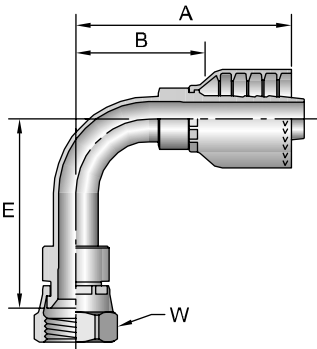
Female JIC 37° - Swivel - 90° Elbow - Short Drop



#				A		E		W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	mm
13971-6-6	3/8 9/16x18	3/8		2.21	56	0.91	23	11/16	1.31	33
13971-8-8	1/2 3/4x16	1/2		2.62	67	1.14	29	7/8	1.41	36
13971-10-8	5/8 7/8x14	1/2		2.74	70	1.26	32	1	1.53	39
13971-10-10	5/8 7/8x14	5/8		2.88	73	1.26	32	1	1.63	41
13971-12-10	3/4 1-1/16x12	5/8		2.98	76	1.89	48	1-1/4	1.73	44
13971-12-12	3/4 1-1/16x12	3/4		3.50	89	1.89	48	1-1/4	2.11	54
13971-16-16	1 1-5/16x12	1		4.36	111	2.20	56	1-1/2	2.58	66
13971-20-20	1-1/4 1-5/8x12	1-1/4		4.78	121	3.33	85	2	3.11	79
13971-24-24	1-1/2 1-7/8x12	1-1/2		6.33	161	3.98	101	2-1/4	4.14	105

## 1L971

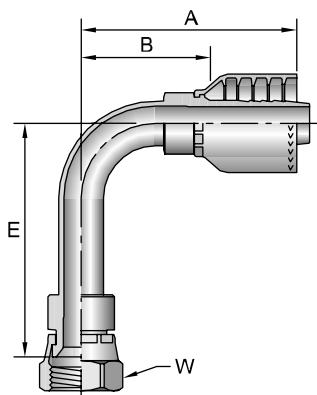
Female JIC 37° - Swivel - 90° Elbow - Medium Drop



#				A		E		W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	mm
1L971-10-8	5/8 7/8x14	1/2		3.24	82	1.75	44	1	2.04	52

## 14171

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






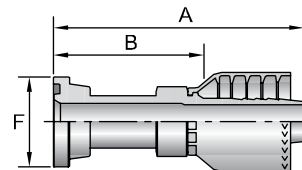
#				A		E		W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	mm
14171-6-6	3/8 9/16x18	3/8		2.34	59	2.13	54	11/16	1.44	37
14171-8-8	1/2 3/4x16	1/2		2.58	66	2.52	64	7/8	1.37	35
14171-12-12	3/4 1-1/16x14	3/4		3.49	89	3.78	96	1-1/4	2.11	54
14171-16-16	1 1-5/16x12	1		4.36	111	4.32	110	1-1/2	2.58	66

## 11571

### SAE Code 61 Flange Head

ISO 12151-3 - S - L




# Part Number	 Flange inch	 Hose I.D. inch	A		 F inch	B	
			inch	mm		inch	mm
11571-8-8	1/2	1/2	3.48	88	1-3/16	2.27	58
11571-10-10	5/8	5/8	3.69	93,7	1-11/32	2.44	62,0
11571-12-8	3/4	1/2	2.46	62,5	1-1/2	1.26	32,0
11571-12-12	3/4	3/4	3.86	98	1-1/2	2.48	63
11571-16-12	1	3/4	2.74	70	1-3/4	1.36	35
11571-16-16	1	1	4.32	110	1-3/4	2.55	65
11571-20-12	1-1/4	3/4	3.90	99	2	2.54	65
11571-20-16	1-1/4	1	3.27	83	2	1.58	40
11571-20-20	1-1/4	1-1/4	4.70	119	2	3.01	76
11571-20-24	1-1/4	1-1/2	5.41	137	2	3.22	82
11571-24-16	1-1/2	1	3.41	86,6	2-3/8	1.63	41,4
11571-24-20	1-1/2	1-1/4	3.48	104	2-3/8	1.36	61
11571-24-24	1-1/2	1-1/2	5.46	139	2-3/8	3.27	83
11571-24-32	1-1/2	2	5.65	144	2-3/8	3.45	88
11571-32-20	2	1-1/4	4.29	109,0	2-13/16	2.60	66,0
11571-32-24	2	1-1/2	4.01	102	2-13/16	1.82	46
11571-32-32	2	2	5.65	144	2-13/16	3.45	88
11571-40-32	2-1/2	2	4.51	115	3-5/16	2.31	59

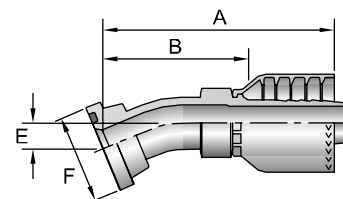


## 11671

### SAE Code 61 Flange Head - 22-1/2° Elbow

ISO 12151-3 - E22M - L

# Part Number	 Flange inch	 Hose I.D. inch	A		E		 F inch	B	
			inch	mm	inch	mm		inch	mm
11671-12-12	3/4	3/4	3.90	99	0.44	11	1-1/2	2.54	65
11671-16-12	1	3/4	3.89	99	0.44	11	1-3/4	2.53	64
11671-16-16	1	1	4.26	108	0.44	11	1-3/4	2.67	68
11671-20-16	1-1/4	1	4.36	111	0.47	12	2	2.77	70
11671-20-20	1-1/4	1-1/4	4.67	119	0.50	13	2	3.00	76
11671-24-20	1-1/2	1-1/4	4.68	119	0.53	13	2-3/8	3.01	76
11671-24-24	1-1/2	1-1/2	5.88	149	0.63	16	2-3/8	3.69	94
11671-32-32	2	2	7.37	187	0.88	22	2-13/16	5.22	133

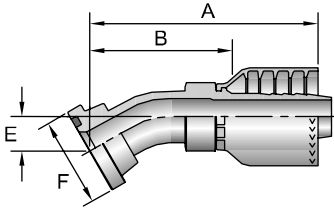


See Accessories Section for O-Rings and Flange Kits.

## 12671

### SAE Code 61 Flange Head - 30° Elbow

ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)

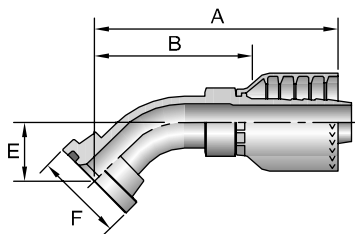


#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
12671-12-12	3/4	3/4	3.90	99	0.59	15	1-1/2	2.52	64
12671-16-16	1	1	4.46	113	0.62	16	1-3/4	2.68	68
12671-20-16	1-1/4	1	4.46	113	0.62	16	2	2.68	68
12671-20-20	1-1/4	1-1/4	4.87	124	0.72	18	2	3.18	81
12671-24-24	1-1/2	1-1/2	6.01	153	0.88	22	2-3/8	3.82	97
12671-32-24	2	1-1/2	6.01	153	0.88	22	2-13/16	3.82	97
12671-32-32	2	2	7.60	193	1.25	32	2-13/16	5.40	137

## 11771

### SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)

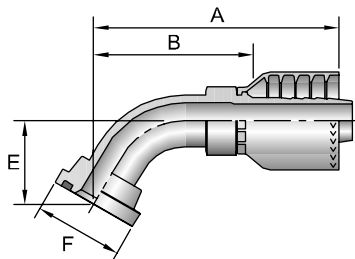


#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
11771-10-10	5/8	5/8	4.54	115	0.94	24	1-11/32	3.29	84
11771-12-8	3/4	1/2	3.27	83	0.84	21	1-1/2	2.07	53
11771-12-10	3/4	5/8	3.94	100	0.76	19	1-1/2	2.70	69
11771-12-12	3/4	3/4	3.85	98	1.02	26	1-1/2	2.47	63
11771-16-12	1	3/4	3.85	98	1.02	26	1-3/4	2.47	63
11771-16-16	1	1	4.84	123	1.26	32	1-3/4	3.06	78
11771-20-16	1-1/4	1	4.84	123	1.02	26	2	3.06	78
11771-20-20	1-1/4	1-1/4	5.61	142	1.50	38	2	3.92	100
11771-20-24	1-1/4	1-1/2	6.22	158	1.12	28	2	4.03	102
11771-24-20	1-1/2	1-1/4	5.55	141	1.50	38	2-3/8	3.86	98
11771-24-24	1-1/2	1-1/2	6.22	158	1.41	36	2-3/8	4.03	102
11771-32-24	2	1-1/2	6.19	157	1.41	36	2-13/16	4.00	102
11771-32-32	2	2	7.94	202	2.03	52	2-13/16	5.74	146
11771-40-32	2-1/2	2	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)



#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
12771-12-12	3/4	3/4	4.16	106	1.43	36	1-1/2	2.78	71
12771-16-12	1	3/4	4.15	105	1.39	35	1-3/4	2.77	70
12771-16-16	1	1	4.74	120	1.49	38	1-3/4	3.36	85
12771-20-20	1-1/4	1-1/4	5.10	130	1.69	43	2	3.41	87
12771-24-20	1-1/2	1-1/4	5.12	130	1.70	43	2-3/8	3.43	87
12771-24-24	1-1/2	1-1/2	6.25	159	2.03	52	2-3/8	4.06	103
12771-32-32	2	2	7.93	201	2.88	73	2-13/16	5.73	146

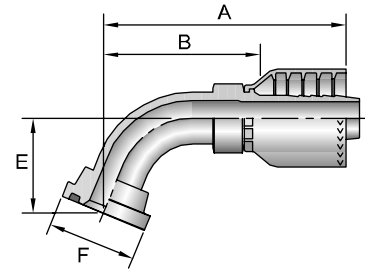
See Accessories Section for O-Rings and Flange Kits.

## 11871

### SAE Code 61 Flange Head - 67-1/2° Elbow

ISO 12151-3 - E67S - L (1 Piece: ISO 12151-3 - E67M - L)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
11871-12-12	3/4	3/4	4.12	105	1.62	41	1-1/2	2.74	70
11871-16-12	1	3/4	4.11	104	1.59	40	1-3/4	2.73	69
11871-16-16	1	1	4.76	121	1.75	44	1-3/4	2.98	76
11871-20-20	1-1/4	1-1/4	5.08	129	1.94	49	2	3.39	86
11871-24-20	1-1/2	1-1/4	5.07	129	1.95	50	2-3/8	3.38	86
11871-24-24	1-1/2	1-1/2	6.20	157	2.31	59	2-3/8	4.01	102
11871-32-24	2	1-1/2	6.20	157	2.31	59	2-13/16	4.01	102
11871-32-32	2	2	7.89	200	3.31	84	2-13/16	5.69	145

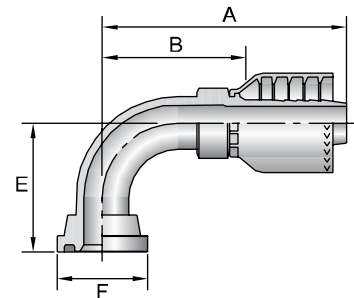


## 11971

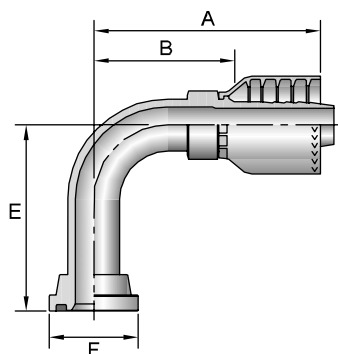
### SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
11971-8-8	1/2	1/2	2.93	74	1.6	41	1-3/16	1.72	44
11971-10-10	5/8	5/8	3.62	92	2.10	53	1-11/32	2.37	60
11971-12-8	3/4	1/2	2.93	74	1.66	42	1-1/2	1.72	44
11971-12-10	3/4	5/8	3.62	92	2.10	53	1-1/2	2.37	60
11971-12-12	3/4	3/4	3.48	88	2.28	58	1-1/2	2.10	53
11971-16-12	1	3/4	3.52	89	2.28	58	1-3/4	2.14	54
11971-16-16	1	1	4.36	111	2.76	70	1-3/4	2.58	66
11971-16-20	1	1-1/4	4.53	115	2.39	61	1-3/4	2.75	70
11971-20-12	1-1/4	3/4	3.81	97	2.13	54	2	2.45	62
11971-20-16	1-1/4	1	4.33	110	2.76	70	2	2.55	65
11971-20-20	1-1/4	1-1/4	5.12	130	3.54	90	2	3.43	87
11971-20-24	1-1/4	1-1/2	6.33	161	3.00	76	2	4.14	105
11971-24-16	1-1/2	1	4.53	115	2.39	61	2-3/8	2.75	70
11971-24-20	1-1/2	1-1/4	5.09	129	3.54	90	2-3/8	3.40	86
11971-24-24	1-1/2	1-1/2	6.34	161	4.09	104	2-3/8	4.15	105
11971-32-24	2	1-1/2	6.98	148	4.09	79	2-13/16	4.36	93
11971-32-32	2	2	7.75	197	5.43	138	2-13/16	5.55	141
11971-40-32	2-1/2	2	7.43	189	4.5	114	3-5/16	5.23	133



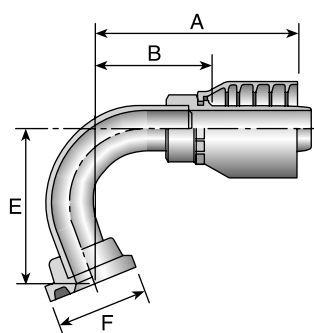
See Accessories Section for O-Rings and Flange Kits.



## 18971

### SAE Code 61 Flange Head - 90° Elbow - Long Drop

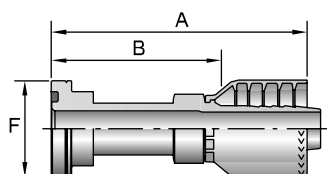
#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
18971-12-12	3/4	3/4	3.49	89	3.03	77	1-1/2	2.11	54
18971-16-16	1	1	4.52	115	4.60	117	1-3/4	2.74	70
18971-20-16	1-1/4	1	4.53	115	4.60	117	2	2.75	70



## 12U71

### SAE Code 61 Flange Head - 110° Elbow

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
12U71-16-16	1	1	4.49	114	3.69	94	1-3/4	2.71	69

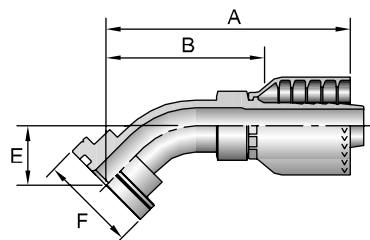


## 16A71

### SAE Code 62 Flange Head

ISO 12151-3 - S - S

#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
16A71-12-12	3/4	3/4	4.31	109	1-5/8	2.93	74
16A71-16-12	1	3/4	3.10	78,7	1-7/8	1.72	43,7
16A71-16-16	1	1	4.89	124	1-7/8	3.11	79
16A71-20-16	1-1/4	1	3.69	93,7	2-1/8	1.91	48,5
16A71-20-20	1-1/4	1-1/4	5.01	127,3	2-1/8	3.32	84,3
16A71-24-24	1-1/2	1-1/2	6.34	161,0	2-1/2	4.15	105,4
16A71-32-32	2	2	7.16	182	3-1/8	4.96	126



## 16F71

### SAE Code 62 Flange Head - 45° Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - S)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16F71-12-12	3/4	3/4	3.82	97	1.03	26	1-5/8	2.44	62
16F71-16-16	1	1	4.74	120,3	1.26	32	1-7/8	2.96	75,2
16F71-20-16	1-1/4	1	4.61	117	1.06	27	2-1/8	3.02	77
16F71-20-20	1-1/4	1-1/4	5.07	129	1.19	30	2-1/8	3.38	86
16F71-24-24	1-1/2	1-1/2	6.21	158	1.44	37	2-1/2	4.02	102
16F71-32-32	2	2	7.87	200	2.05	52	3-1/8	5.67	144

See Accessories Section for O-Rings and Flange Kits.

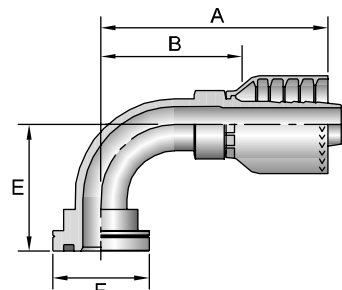


## 16N71

### SAE Code 62 Flange Head - 90° Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - S)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16N71-12-12	3/4	3/4	3.51	89	2.28	58	1-5/8	2.13	54
16N71-16-12	1	3/4	3.49	89	2.29	58	1-7/8	2.11	54
16N71-16-16	1	1	4.36	111	2.76	70	1-7/8	2.58	66
16N71-20-16	1-1/4	1	4.36	111	2.76	70	2-1/8	2.58	66
16N71-20-20	1-1/4	1-1/4	5.09	129	3.54	90	2-1/8	3.40	86
16N71-24-24	1-1/2	1-1/2	5.85	149	3.12	79	2-1/2	3.66	93
16N71-32-32	2	2	7.73	196	4.50	114	3-1/8	5.53	140






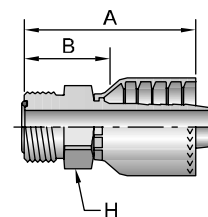
Refer to Pressure Rating of Hose End Connections chart on page E-43.

## 1J071

### Male Seal-Lok® - Rigid - (with O-Ring)

ISO 12151-1 - S





#				A			B	
Part Number	Thread inch		Hose I.D. inch	inch	mm	inch	inch	mm
1J071-8-8	1/2	13/16x16	1/2	2.40	61	7/8	1.20	30
1J071-10-8	5/8	1x14	1/2	2.61	66	1-1/16	1.41	36
1J071-10-10	5/8	1x14	5/8	2.69	68	1-1/16	1.44	37
1J071-12-10	3/4	1-3/16x12	5/8	2.79	71	1-1/4	1.55	39
1J071-12-12	3/4	1-3/16x12	3/4	2.87	73	1-1/4	1.51	38
1J071-16-12	1	1-7/16x12	3/4	2.91	74	1-1/2	1.53	39
1J071-16-16	1	1-7/16x12	1	3.27	83	1-1/2	1.68	43
1J071-20-20	1-1/4	1-11/16x12	1-1/4	3.31	84	1-3/4	1.64	42
1J071-24-24	1-1/2	2x12	1-1/2	4.02	102	2-1/8	1.83	46

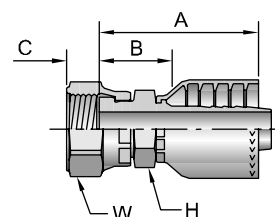


## 1JC71

### Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA

#				A		C					
Part Number	Thread inch		Hose I.D. inch	inch	mm	inch	mm	inch	inch	inch	mm
1JC71-8-8	1/2	13/16x16	1/2	2.22	56	0.43	11	13/16	15/16	1.01	26
1JC71-10-10	5/8	1x14	5/8	2.40	61	0.48	12	15/16	1-1/8	1.15	29
1JC71-12-12	3/4	1-3/16x12	3/4	2.68	68	0.55	14	1-1/8	1-3/8	1.30	33
1JC71-16-16	1	1-7/16x12	1	3.22	82	0.56	14	1-3/8	1-5/8	1.44	37
1JC71-20-16	1-1/4	1-11/16x12	1	3.16	80	0.59	15	1-5/8	1-7/8	1.38	35



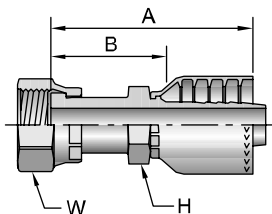
When measuring overall length to end of nut, B+C dimensions must be used to calculate cut-off allowance.

See Accessories Section for O-Rings and Flange Kits.

## 1JS71

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

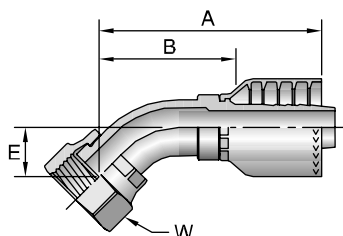





#									
Part Number	Thread		Hose I.D.	A	H	W	B		
	inch	inch	inch	inch	mm	inch	inch	inch	mm
1JS71-6-6	3/8	11/16x16	3/8	2.80	58	11/16	13/16	1.38	35
1JS71-6-8	3/8	11/16x16	1/2	2.50	64	13/16	13/16	1.29	33
1JS71-8-8	1/2	13/16x16	1/2	2.64	67	13/16	15/16	1.44	37
1JS71-10-8	5/8	1x14	1/2	2.89	23	13/16	1-1/8	1.69	43
1JS71-10-10	5/8	1x14	5/8	3.00	76	15/16	1-1/8	1.75	44
1JS71-10-12	5/8	1x14	3/4	3.08	78	1-1/16	1-1/8	1.70	43
1JS71-12-10	3/4	1-3/16x12	5/8	3.10	79	1-1/8	1-3/8	1.85	47
1JS71-12-12	3/4	1-3/16x12	3/4	3.31	84	1-1/16	1-3/8	1.93	49
1JS71-16-12	1	1-7/16x12	3/4	3.37	86	1-5/16	1-5/8	1.99	51
1JS71-16-16	1	1-7/16x12	1	3.70	94	1-5/16	1-5/8	1.92	49
1JS71-20-16	1-1/4	1-11/16x12	1	3.64	92	1-3/4	1-7/8	1.94	49
1JS71-20-20	1-1/4	1-11/16x12	1-1/4	3.77	96	1-3/4	1-7/8	2.08	53
1JS71-24-24	1-1/2	2x12	1-1/2	4.51	114,6	2	2-1/4	2.32	58,9

## 1J771

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45



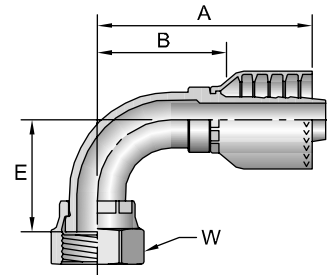
#				A		E			B	
Part Number	Thread inch		Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1J771-6-6	3/8	11/16x16	3/8	2.34	59	0.43	11	13/16	1.44	37
1J771-8-8	1/2	13/16x16	1/2	2.83	72	0.59	15	15/16	1.62	41
1J771-10-8	5/8	1x14	1/2	2.93	74	0.63	16	1-1/8	1.72	44
1J771-10-10	5/8	1x14	5/8	3.08	78	0.63	16	1-1/8	1.83	46
1J771-12-12	3/4	1-3/16x12	3/4	3.63	92	0.83	21	1-3/8	2.25	57
1J771-16-16	1	1-7/16x12	1	4.46	113	0.94	24	1-5/8	2.68	68
1J771-20-20	1-1/4	1-11/16x12	1-1/4	4.75	121	1.00	25	1-7/8	3.08	78
1J771-24-24	1-1/2	2x12	1-1/2	5.43	138	1.07	27	2-1/4	3.23	82

See Accessories Section for O-Rings.

## 1J971

**Female Seal-Lok® - Swivel - 90° Elbow - Short Drop**  
 ISO 12151-1 - SWES90

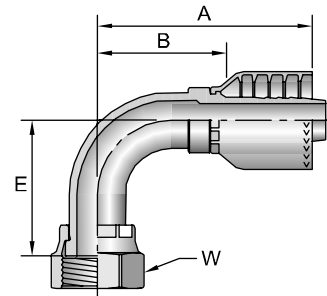
# Part Number	Thread		Hose I.D. inch	A		E		W	B	
	inch			inch	mm	inch	mm		inch	mm
1J971-6-6	3/8	11/16x16	3/8	2.21	56	0.91	23	13/16	1.31	33
1J971-8-8	1/2	13/16x16	1/2	2.59	66	1.14	29	15/16	1.38	35
1J971-10-8	5/8	1x14	1/2	2.74	70	1.26	32	1-1/8	1.53	39
1J971-10-10	5/8	1x14	5/8	2.88	73	1.26	32	1-1/8	1.63	41
1J971-10-12	5/8	1x14	3/4	3.07	78	1.27	32	1-1/8	1.70	43
1J971-12-10	3/4	1-3/16x12	5/8	3.40	86	1.89	48	1-3/8	2.15	55
1J971-12-12	3/4	1-3/16x12	3/4	3.49	89	1.89	48	1-3/8	2.11	54
1J971-16-16	1	1-7/16x12	1	4.36	111	2.20	56	1-5/8	2.58	66
1J971-20-20	1-1/4	1-11/16x12	1-1/4	4.86	123	2.51	64	1-7/8	3.19	81
1J971-24-24	1-1/2	2x12	1-1/2	6.22	158	2.68	68	2-1/4	4.03	102



## 1J571

**Female Seal-Lok® - Swivel - 90° Elbow - Medium Drop**  
 ISO 12151-1 - SWEM90

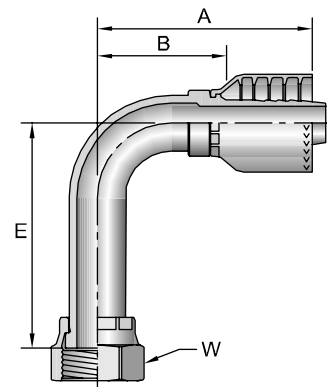
# Part Number	Thread		Hose I.D. inch	A		E		W	B	
	inch			inch	mm	inch	mm		inch	mm
1J571-8-8	1/2	13/16x16	1/2	2.59	66	1.61	41	15/16	1.38	35
1J571-10-10	5/8	1x14	5/8	2.88	73	1.85	47	1-1/8	1.63	41
1J571-12-12	3/4	1-3/16x12	3/4	3.49	89	2.28	58	1-3/8	2.11	54



## 1J171

**Female Seal-Lok® - Swivel - 90° Elbow - Long Drop**  
 ISO 12151-1 - SWEL90

# Part Number	Thread		Hose I.D. inch	A		E		W	B	
	inch			inch	mm	inch	mm		inch	mm
1J171-6-6	3/8	11/16x16	3/8	2.39	61	2.13	54	13/16	1.49	38
1J171-8-8	1/2	13/16x16	1/2	2.59	66	2.52	64	15/16	1.38	35
1J171-10-10	5/8	1x14	5/8	2.88	73	2.76	70	1-1/8	1.63	41
1J171-12-12	3/4	1-3/16x12	3/4	3.49	89	3.78	96	1-3/8	2.11	54
1J171-16-12	1	1-7/16x12	3/4	4.07	103	4.50	114	1-5/8	2.69	68
1J171-16-16	1	1-7/16x12	1	4.36	111	4.49	114	1-5/8	2.58	66
1J171-20-20	1-1/4	1-11/16x12	1-1/4	4.88	124	5.09	129	1-7/8	3.19	81
1J171-24-24	1-1/2	2x12	1-1/2	5.83	148	5.54	141	2-1/4	3.64	92

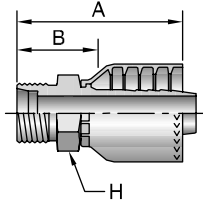


See Accessories Section for O-Rings.

## 1D271

### Male Metric S - Rigid - (24° Cone)

ISO 12151-2

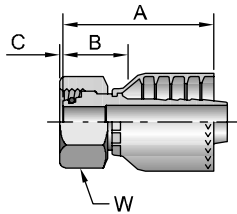


#								
Part Number	Thread	Hose I.D.	A		H	B		
	mm	inch	inch	mm	mm	inch	mm	
1D271-25-12	25 M36x2	3/4	2.90	74	36	1.52	39	
1D271-30-16	30 M42x2	1	3.45	88	46	1.67	42	

## 1C971

### Female Metric S - Swivel - (24° Cone with O-Ring)

ISO 12151-2 - SWS - S

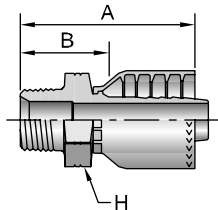


#									
Part Number	Thread	Hose I.D.	A		C		W	B	
	mm	inch	inch	mm	inch	mm	mm	inch	mm
1C971-12-6	12 M20x1,5	3/8	2.05	52	0.03	1	24	0.87	22
1C971-16-8	16 M24x1,5	1/2	2.33	59	0.09	2	30	0.94	24
1C971-20-10	20 M30x2	5/8	2.60	66	0.05	1	36	1.06	27
1C971-25-12	25 M36x2	3/4	2.68	68	0.10	3	46	1.10	28
1C971-30-16	30 M42x2	1	3.07	78	0.19	5	50	1.30	33
1C971-38-20	38 M52x2	1-1/4	3.15	80	0.23	6	60	1.30	33

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

## 1UT71

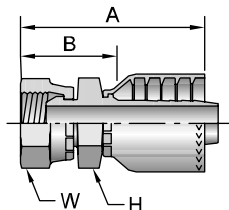
### Male BSP Taper Pipe - Rigid - (60° Cone)



#						
Part Number	Hose I.D.	A		H	B	
	inch	inch	mm	mm	inch	mm
1UT71-8-8	1/2	2.66	68	27	1.46	37
1UT71-12-12	3/4	2.95	75	36	1.59	40

## 1GU71

### Female BSP Parallel Pipe - Swivel - (60° Cone)



#									
Part Number	Thread	Hose I.D.	A		H	W	B		
	inch	inch	inch	mm	mm	mm	inch	mm	
1GU71-6-6	3/8 3/8x19	3/8	2.45	62	22	22	1.55	39	
1GU71-8-8	1/2 1/2x14	1/2	2.81	71	27	27	1.61	41	
1GU71-12-12	3/4 3/4x14	3/4	3.24	82	36	36	1.86	47	
1GU71-16-16	1 1x11	1	3.82	97	41	41	2.04	52	
1GU71-20-20	1-1/4 1-1/4x11	1-1/4	4.07	103	50	50	2.38	60	
1GU71-24-24	1-1/2 1-1/2x11	1-1/2	4.81	122	60	60	2.62	67	
1GU71-32-32	2 2x11	2	5.17	131	70	70	2.97	75	

Metric S: Mates with EO "S" Series Fittings.

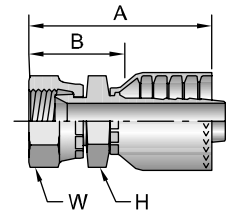
^^ Must be assembled with Die Part No. 83C-D20H in a Superkrimp or Parkrimp 2.

See Accessories Section for O-Rings and Flange Kits.

## 1FU71

### Female BSP Parallel Pipe - Swivel - (30° Flare)

# Part Number	Thread inch	Hose I.D. inch	A		H mm	W mm	B	
			inch	mm			inch	mm
1FU71-6-6	3/8x19	3/8	2.39	61	24	22	1.50	38
1FU71-8-8	1/2x14	1/2	2.71	69	27	27	1.51	38
1FU71-12-12	3/4x14	3/4	3.10	79	36	36	1.74	44
1FU71-16-16	1x11	1	3.52	89	41	41	1.93	49
1FU71-20-20	1-1/4x11	1-1/4	3.87	98	50	50	2.20	56
1FU71-24-24	1-1/2x11	1-1/2	4.66	118	60	60	2.53	64

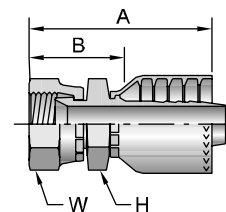


## 1MU71

### Female Metric - Swivel - (30° Flare)

# Part Number	Thread inch	Hose I.D. inch	A		H mm	W mm	B	
			inch	mm			inch	mm
1MU71-6-6	M18x1,5	3/8	2.45	62	24	24	1.56	40
1MU71-8-8	M22x1,5	1/2	2.83	72	27	27	1.45	37

Japanese Fittings - Female Swivel 30° Flare with Metric Threads. All 30° flared fitting sizes are available by combining 1MU71 fittings in sizes up to 1/2 with 1XU71 fittings in sizes 5/8 inch and larger.

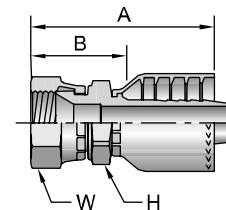


## 1XU71

### Female Metric - Swivel - (30° Flare)

# Part Number	Thread inch	Hose I.D. inch	A		H mm	W mm	B	
			inch	mm			inch	mm
1XU71-10-10	M24x1,5	5/8	3.16	80	30	32	1.91	49
1XU71-12-12	M30x1,5	3/4	3.40	86	32	36	2.02	51
1XU71-16-16	M33x1,5	1	4.11	104	36	41	2.33	59
1XU71-20-20	M36x1,5	1-1/2	4.19	106	46	46	2.50	64
1XU71-24-24	M42x1,5	1-1/2	5.00	127	50	55	2.80	71

Japanese Fittings - Female Swivel 30° Flare with Metric Threads. All 30° flared fitting sizes are available by combining 1MU71 fittings in sizes up to 1/2 with 1XU71 fittings in sizes 5/8 inch and larger.



A

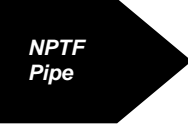
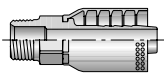

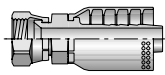
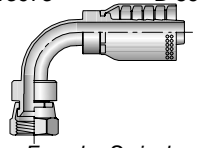

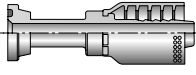
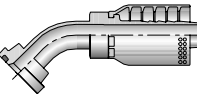
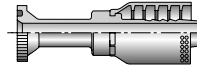
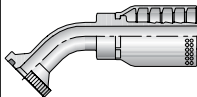
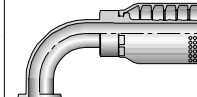
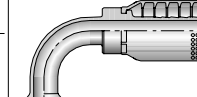

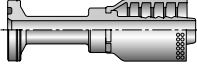
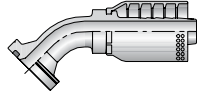
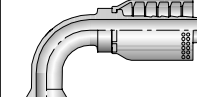

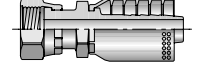
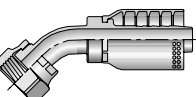
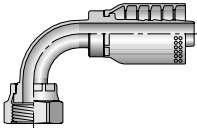

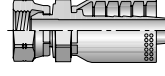
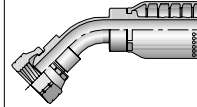
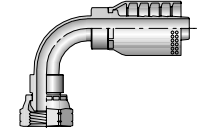

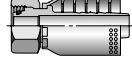

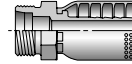
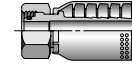
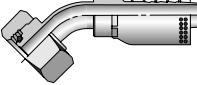
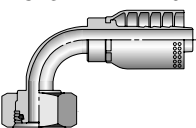

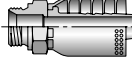
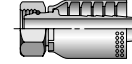
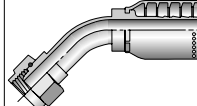
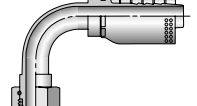
B

C

D

E



 <b>NPTF Pipe</b>	10173 B-86  <i>Male - Rigid</i>	 <b>JIC 37°</b>	10673 B-86  <i>Female - Swivel</i>	13973 B-86  <i>Female - Swivel 90° Elbow - Short</i>	 <b>Code 61 Flange</b>
11573 B-86  <i>Flange</i>	11773 B-87  <i>45° Elbow</i>	14A73 B-87  <i>Flange (5000 psi)</i>	14F73 B-87  <i>45° Elbow (5000 psi)</i>	11973 B-87  <i>90° Elbow</i>	14N73 B-88  <i>90° Elbow (5000 psi)</i>
 <b>Code 62 Flange</b>	16A73 B-88  <i>Flange</i>	16F73 B-88  <i>45° Elbow</i>	16N73 B-88  <i>90° Elbow</i>	 <b>Seal-Lok® (O-Ring Face Seal)</b>	1JS73 B-89  <i>Female - Swivel Long</i>
1J773 B-89  <i>Female - Swivel 45° Elbow</i>	1J973 B-89  <i>Female - Swivel 90° Elbow - Short</i>	 <b>BSP 60° Cone</b>	1GU73 B-90  <i>Female - Swivel</i>	1G173 B-90  <i>Female - Swivel 45° Elbow</i>	1G273 B-90  <i>Female - Swivel 90° Elbow</i>
 <b>DIN "L" Series</b>	1CA73 B-91  <i>Female Metric L - Swivel</i>	 <b>DIN "S" Series</b>	1D273 B-91  <i>Male Metric S - Rigid</i>	1C973 B-91  <i>Female Metric S - Swivel</i>	10C73 B-91  <i>Female Metric S - Swivel</i>
11C73 B-92  <i>Female Metric S - Swivel</i>	 <b>BSP 60° Cone</b>	1D973 B-92  <i>Male BSP - Parallel Pipe - Rigid</i>	19273 B-92  <i>Female BSP - Parallel Pipe - Swivel</i>	1B173 B-93  <i>Female BSP - Parallel Pipe - Swivel</i>	1B273 B-93  <i>Female BSP - Parallel Pipe - Swivel</i>

A

B

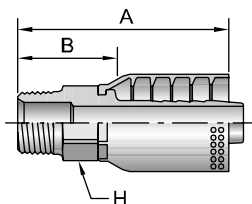
C

D

E

## 10173

### Male NPTF Pipe - Rigid

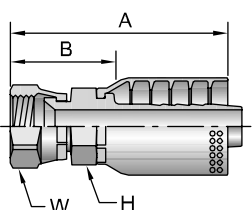


#	Thread	Hose I.D.	A		H	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
10173-12-12	3/4x14	3/4	3.56	90	1-1/8	1.75	44
10173-16-16	1x11-1/2	1	3.94	100	1-3/8	2.00	51
10173-20-20	1-1/4x11-1/2	1-1/4	4.92	125	1-3/4	2.43	62
10173-24-24	1-1/2x11-1/2	1-1/2	4.88	124	2	2.57	65
10173-32-32	2x11-1/2	2	5.57	141	2-1/2	2.87	73

Note: All sizes of 10173 fittings are rated at 5,000 psi working pressure.

## 10673

### Female JIC 37° - Swivel

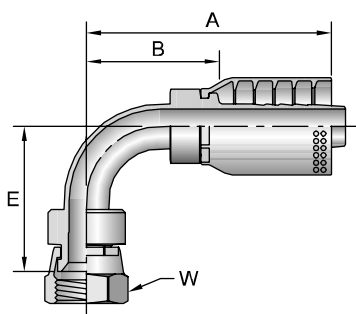


#	Thread		Hose I.D.	A		H	W	B	
Part Number	inch		inch	inch	mm	inch	inch	inch	mm
10673-12-12	3/4	1-1/16x12	3/4	3.66	93	1-1/8	1-1/4	1.85	47
10673-16-12	1	1-5/16x12	3/4	3.90	99	1-3/8	1-1/2	2.09	53
10673-16-16	1	1-5/16x12	1	4.03	102	1-3/8	1-1/2	2.09	53
10673-20-20	1-1/4	1-5/8x12	1-1/4	4.93	125	1-3/4	2	2.44	62
10673-24-24	1-1/2	1-7/8x12	1-1/2	5.04	128	2	2-1/4	2.73	69
10673-32-32	2	2-1/2x12	2	5.91	150	2-1/2	2-7/8	3.21	82

Note: All sizes of 10673 fittings are rated at 5,000 psi working pressure.

## 13973

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



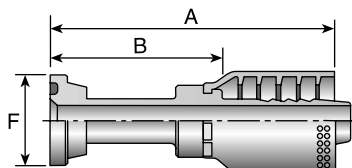
#	Thread		Hose I.D.	A		E		W	B	
Part Number	inch		inch	inch	mm	inch	mm	inch	inch	mm
13973-12-12	3/4	1-1/16x12	3/4	4.12	105	2.44	62	1-1/4	2.31	59
13973-16-16	1	1-5/16x12	1	4.71	120	2.93	74	1-1/2	2.77	70

Note: All sizes of 13973 fittings are rated at 5,000 psi working pressure.

## 11573

### SAE Code 61 Flange Head

#### ISO 12151-3 - S - L



#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
11573-12-12	3/4	3/4	4.34	110.2	1-1/2	2.53	64.3
11573-16-16	1	1	4.59	117	1-3/4	2.65	67

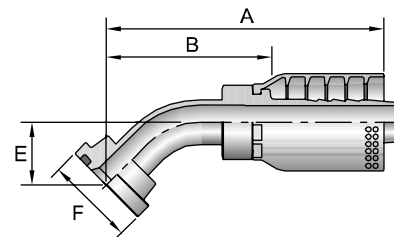
See Accessories Section for O-Rings and Flange Kits.

## 11773

### SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3 - E450S - L (1 Piece: ISO 12151-3 - E45M - L)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
11773-12-12	3/4	3/4	4.31	109	1.02	26	1-1/2	2.50	64
11773-16-16	1	1	5.01	127	1.26	32	1-3/4	3.07	78

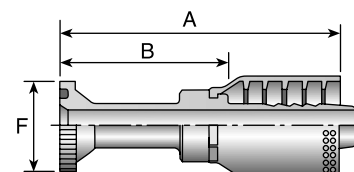


## 14A73

### SAE Code 61 Flange Head - 5000 psi

ISO 12151-3 - S - L

#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
14A73-20-20	1-1/4	1-1/4	5.54	141	2	3.05	77
14A73-24-24	1-1/2	1-1/2	6.53	166	2-3/8	4.22	107
14A73-32-32	2	2	6.14	156	2-13/16	3.44	87

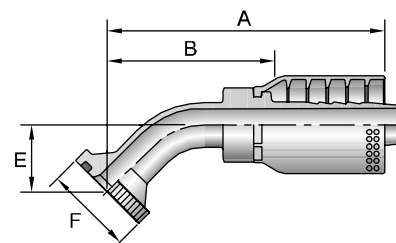


## 14F73

### SAE Code 61 Flange Head - 45° Elbow - 5000 psi

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
14F73-20-20	1-1/4	1-1/4	6.39	162	150	38	2	3.90	99
14F73-24-24	1-1/2	1-1/2	6.99	178	1.73	44	2-3/8	4.68	119
14F73-32-32	2	2	8.40	214	2.21	56	2-13/16	5.71	145

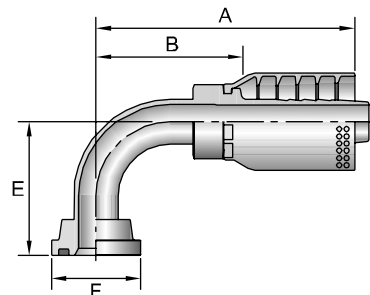


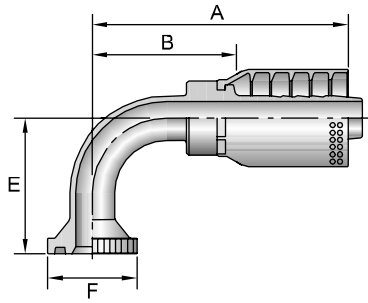
## 11973

### SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
11973-12-12	3/4	3/4	3.97	101	2.28	58	1-1/2	2.16	55
11973-16-12	1	3/4	4.00	102	2.28	58	1-3/4	2.19	56
11973-16-16	1	1	4.63	118	2.76	70	1-3/4	2.69	68





## 14N73

### SAE Code 61 Flange Head - 90° Elbow - 5000 psi

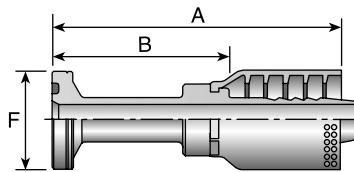
ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
14N73-20-20	1-1/4	1-1/4	6.09	155	3.54	90	2	3.60	91
14N73-24-24	1-1/2	1-1/2	6.52	166	4.09	104	2-3/8	4.21	107
14N73-32-32	2	2	7.82	199	5.43	138	2-13/16	5.12	130

## 16A73

### SAE Code 62 Flange Head

ISO 12151-3 - S - S

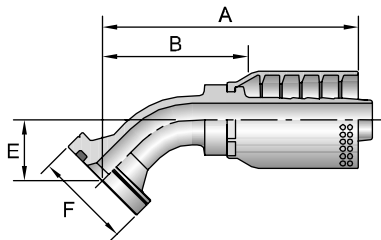


#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
16A73-12-12	3/4	3/4	4.60	117	1-5/8	2.79	71
16A73-16-16	1	1	5.16	131	1-7/8	3.22	82
16A73-20-16	1-1/4	1	3.95	100	2-1/8	2.01	51
16A73-20-20	1-1/4	1-1/4	5.85	149	2-1/8	3.36	85
16A73-24-24	1-1/2	1-1/2	6.54	166	2-1/2	4.23	107
16A73-32-32	2	2	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)

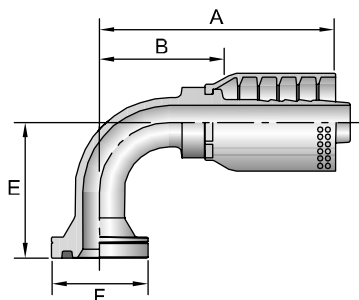


#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16F73-12-12	3/4	3/4	4.31	109	1.02	26	1-5/8	2.50	64
16F73-16-16	1	1	5.01	127	1.26	32	1-7/8	3.07	78
16F73-20-20	1-1/4	1-1/4	6.39	162	1.50	38	2-1/8	3.90	99

## 16N73

### SAE Code 62 Flange Head - 90° Elbow

ISO 12151-3 - E90S - S (1 Piece: ISO 12151-3 - E90M - S)







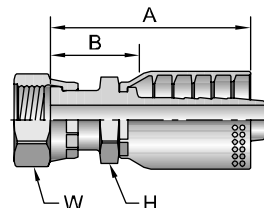
#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16N73-12-12	3/4	3/4	3.97	101	2.28	58	1-5/8	2.16	55
16N73-16-16	1	1	4.63	118	2.76	70	1-7/8	2.69	68
16N73-20-20	1-1/4	1-1/4	6.09	151	3.54	90	2-1/8	3.60	91
16N73-24-24	1-1/2	1-1/2	6.52	166	4.09	104	2-1/2	4.21	107
16N73-32-32	2	2	7.82	199	5.43	138	3-1/8	5.12	130

## 1JS73

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB




# Part Number				A				B	
	Thread inch		Hose I.D. inch	inch	mm	inch	inch	inch	mm
1JS73-12-12	3/4	1-3/16x12	3/4	3.70	94	1-1/8	1-3/8	1.89	48
1JS73-16-12	1	1-7/16x12	3/4	3.78	96	1-3/8	1-5/8	1.97	50
1JS73-16-16	1	1-7/16x12	1	4.03	102	1-3/8	1-5/8	2.09	53
1JS73-20-20	1-1/4	1-11/16x12	1-1/4	4.62	132	1-3/4	1-7/8	2.13	69

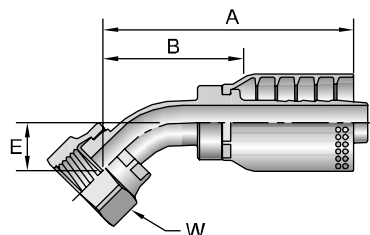


## 1J773

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45




#			A		E			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1J773-12-12	3/4	1-3/16x12	3/4	4.11 104	0.81	21	1-3/8	2.30	58
1J773-16-16	1	1-7/16x12	1	4.69 119	0.94	24	1-5/8	2.75	70
1J773-20-20	1-1/4	1-11/16x12	1-1/4	5.78 147	0.98	25	1-7/8	3.29	84

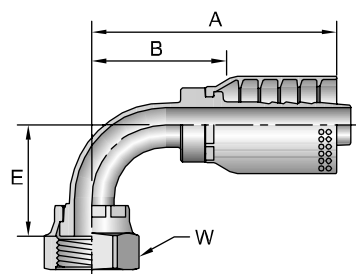


## 1J973

### Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

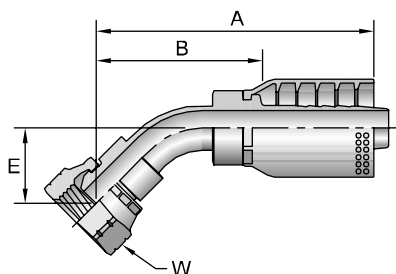
ISO 12151-1 - SWES90

# Part Number					A		E				B	
	Thread inch		Hose I.D. inch		inch	mm	inch	mm	inch		inch	mm
1J973-12-12	3/4	1-3/16x12	3/4		3.97	100	1.89	48	1-3/8		2.16	55
1J973-16-16	1	1-7/16x12	1		4.62	117	2.20	56	1-5/8		2.68	68
1J973-20-20	1-1/4	1-11/16x12	1-1/4		5.82	148	2.52	64	1-7/8		3.33	85



Metric S: Mates with EO "S" Series Fittings.

A

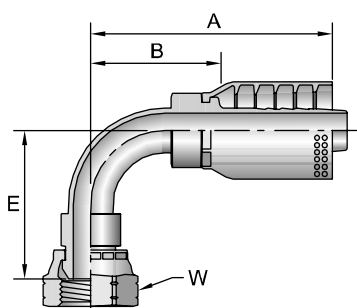


## 1G173

Female BSP Parallel Pipe - Swivel - 45° Elbow - (60° Cone)

#									
Part Number	Thread	Hose I.D.	A		E		W	B	
	inch	inch	inch	mm	inch	mm	mm	inch	mm
1G173-12-12	3/4x14	3/4	4.77	121,2	1.35	34,4	36	2.96	75,2
1G173-16-16	1x11	1	5.36	136,1	1.52	38,7	41	3.42	86,9

B

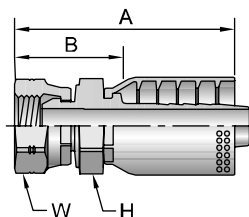


## 1G273

Female BSP Parallel Pipe - Swivel - 90° Elbow - (60° Cone)





#									
Part Number	Thread	Hose I.D.	A		E		W	B	
	inch	inch	inch	mm	inch	mm	mm	inch	mm
1G273-12-12	3/4x14	3/4	4.12	104,6	2.62	66,6	36	2.31	58,7
1G273-16-16	1x11	1	4.71	119,6	3.04	77,2	41	2.77	70,4

C



## 1GU73

Female BSP Parallel Pipe - Swivel - (60° Cone)

#								
Part Number	Thread	Hose I.D.	A		H	W	B	
	inch	inch	inch	mm	mm	mm	inch	mm
1GU73-12-12	3/4x14	3/4	3.76	95,5	36	36	1.95	49,5
1GU73-16-16	1x11	1	4.14	105	41	41	2.20	56

D

E

Metric S: Mates with EO "S" Series Fittings

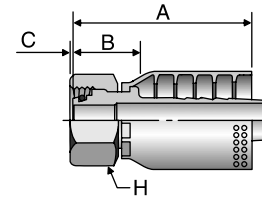


## 1CA73

**Female Metric L - Swivel - (24° Cone with O-Ring)**

ISO 12151-2 - SWS

# Part Number	Thread mm	Hose I.D. inch	A		C		W	B	
			inch	mm	inch	mm	mm	inch	mm
1CA73-28-16	25 M36x2	1	3.43	87	0.14	3.56	41	1.42	36

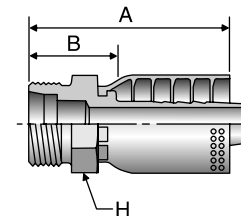


## 1D273

**Male Metric S - Rigid - (24° Cone)**

ISO 12151-2

# Part Number	Thread mm	Hose I.D. inch	A		H	B	
			inch	mm	mm	inch	mm
1D273-20-12	20 M30x2	3/4	3.31	84	30	1.42	36
1D273-25-12	25 M36x2	3/4	3.39	86	36	1.50	38
1D273-30-16	30 M42x2	1	3.70	94	46	1.73	44
1D273-38-20	38 M52x2	1-1/4	4.41	112	55	1.89	48

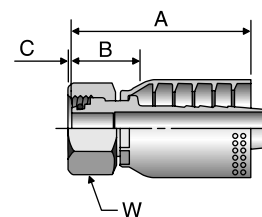


## 1C973

**Female Metric S - Swivel - (24° Cone with O-Ring)**

ISO 12151-2 - SWS

# Part Number	Thread mm	Hose I.D. inch	A		C		W	B	
			inch	mm	inch	mm	mm	inch	mm
1C973-20-12	20 M30x2	3/4	3.19	81	0.05	1.3	36	1.30	33
1C973-25-12	25 M36x2	3/4	3.15	80	0.09	2.3	46	1.26	32
1C973-25-16	25 M36x2	1	3.43	87	0.09	2.3	46	1.42	36
1C973-30-16	30 M42x2	1	3.43	87	0.19	4.8	50	1.42	36
1C973-30-20	30 M42x2	1-1/4	4.17	106	0.19	4.8	50	1.65	42
1C973-38-20	38 M52x2	1-1/4	4.02	102	0.23	5.8	60	1.38	35

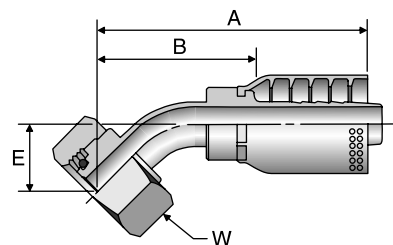


## 10C73

**Female Metric S - Swivel - 45° Elbow - (24° Cone with O-Ring)**

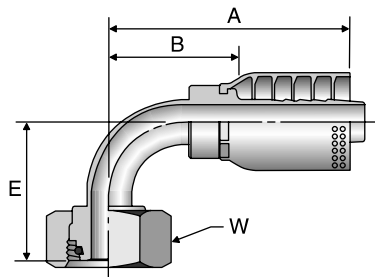
ISO 12151-2 - SWE45 - S

# Part Number	Thread mm	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
10C73-20-12	20 M30x2	3/4	4.41	112	1.10	28	36	2.52	64
10C73-25-12	25 M36x2	3/4	4.45	113	1.14	29	46	2.56	65
10C73-30-16	30 M42x2	1	5.16	131	1.34	34	50	3.19	81



## 11C73

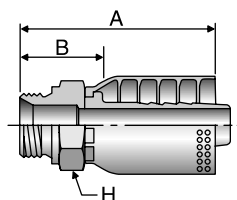
**Female Metric S - Swivel - 90° Elbow - (24° Cone with O-Ring)**  
ISO 12151-2 - SWE - S



# Part Number	Thread mm	Hose I.D. inch	A inch mm		E inch mm		W mm	B inch mm	
11C73-20-12	20 M30X2	3/4	3.98	101	2.24	57	36	2.09	53
11C73-25-12	25 M36X2	3/4	3.98	101	2.32	59	46	2.05	52
11C73-25-16	25 M36X2	1	4.80	122	2.76	70	46	2.80	71
11C73-30-16	30 M42X2	1	4.80	122	2.87	73	50	2.83	72
11C73-38-20	38 M52X2	1-1/4	5.94	151	3.07	78	60	3.43	87

## 1D973

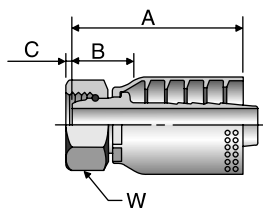
**Male BSP Parallel Pipe - Rigid - (60° Cone)**  
ISO 228-1



# Part Number	Thread BSP	Hose I.D. inch	A inch mm		H mm	B inch mm	
1D973-12-12	19,1 3/4x14	3/4	3.43	87	32	1.50	38
1D973-16-16	25,4 1x11	1	3.74	95	41	1.69	43

## 19273

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



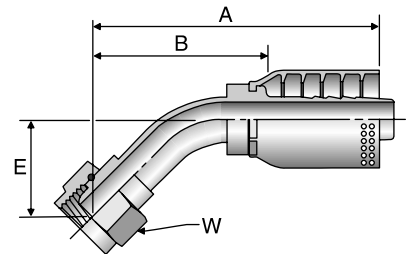
# Part Number	Thread inch	Hose I.D. inch	A inch mm		C inch mm		W mm	B inch mm	
19273-12-12	3/4x14	3/4	3.03	77	0.46	11.7	32	1.14	29
19273-16-16	1x11	1	3.50	89	0.44	11.2	41	1.50	38
19273-20-20	1-1/4x11	1-1/4	3.98	101	0.52	13.2	50	1.46	37

## 1B173

Female BSP Parallel Pipe - Swivel- 45° Elbow - (60° Cone)

ISO 228-1

#			A		E		W	B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	mm	inch	mm
1B173-12-12	3/4x14	3/4	4.33	110	1.02	26	32	2.44	62
1B173-16-16	1x11	1	5.35	136	1.54	39	41	3.31	84

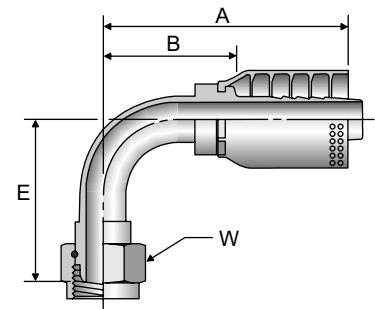



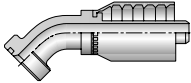
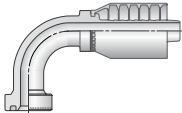
## 1B273

Female BSP Parallel Pipe - Swivel - 90° Elbow - (60° Cone)

ISO 228-1




#			A		E		W	B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	mm	inch	mm
1B273-12-12	3/4x14	3/4	4.17	106	2.17	55	32	2.28	58
1B273-16-16	1x11	1	4.76	121	2.99	76	41	2.76	70
1B273-20-20	1-1/4x11	1-1/4	5.94	151	3.15	80	50	3.43	87

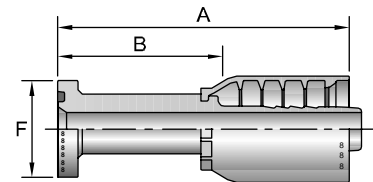


<div>A</div> <div></div> <div>B</div> <div>C</div> <div>D</div> <div>E</div>	 <i>Flange</i>	18A76      B-91	 <i>45° Elbow</i>	18F76      B-91	 <i>90° Elbow</i>	18N76      B-91

## 18A76




Flange Head - 8,000 psi

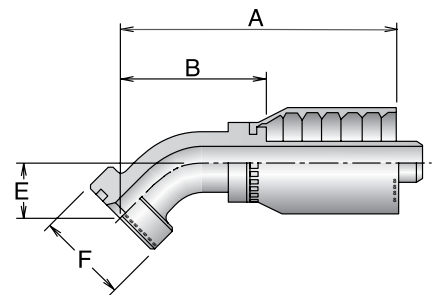
#			A			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm
18A76-12-12	3/4	3/4	5.29	134	1-5/8	2.96	75
18A76-16-16	1	1	5.72	145	1-7/8	3.17	81



## 18F76




Flange Head - 45° Elbow - 8,000 psi

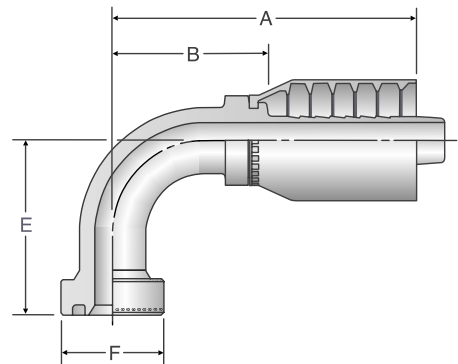
#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
18F76-12-12	3/4	3/4	4.95	125,7	1.024	26	1-5/8	2.62	66,5
18F76-16-16	1	1	6.10	155,0	1.260	32	1-7/8	3.55	90,1



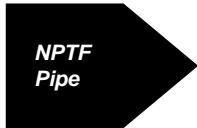
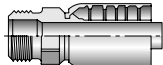

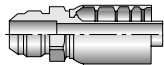
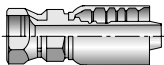
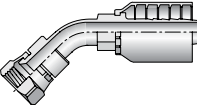
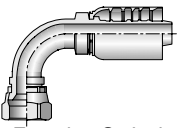

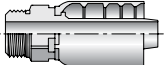

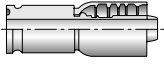
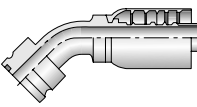
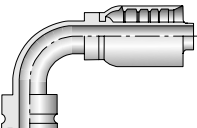

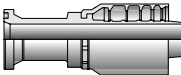
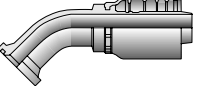
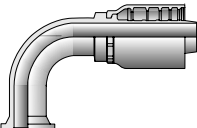
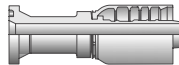
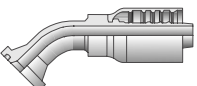
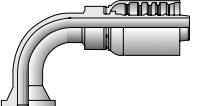

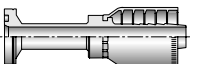
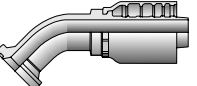
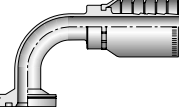

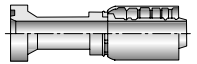
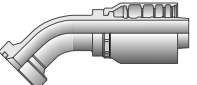
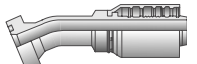
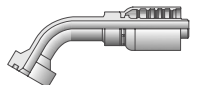
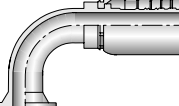

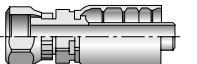
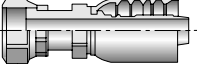
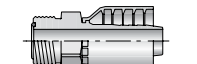

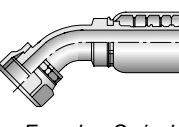
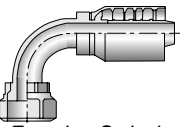

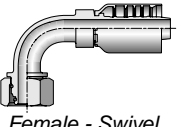

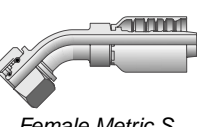



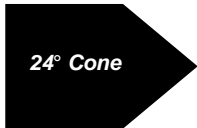
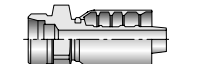
## 18N76

Flange Head - 90° Elbow - 8,000 psi

#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
18N76-12-12	3/4	3/4	4.81	122,1	2.76	70	1-5/8	2.48	63
18N76-16-16	1	1	5.88	149,5	2.76	70	1-7/8	3.33	84,6



See Accessories Section for O-Rings and Flange Kits.

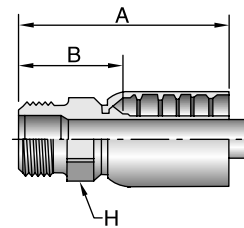
 <b>NPTF Pipe</b>	10177 B-97  <i>Male - Rigid</i>	 <b>JIC 37°</b>	10377 B-97  <i>Male - Rigid</i>	10677 B-97  <i>Female - Swivel Straight</i>	13777 B-98  <i>Female - Swivel 45° Elbow - Short</i>
13977 B-98  <i>Female - Swivel 90° Elbow - Short</i>	 <b>Straight Thread O-Ring</b>	10577 B-97  <i>Male - Rigid</i>	 <b>Full Flange</b>	1X577 B-98  <i>Full Flange - Straight</i>	1X777 B-99  <i>45° Elbow</i>
1X977 B-99  <i>90° Elbow</i>	 <b>Flange Code 61</b>	14A77 B-100  <i>Flange Code 61</i>	14F77 B-100  <i>Code 61 - 45° Elbow</i>	14N77 B-101  <i>Code 61 - 90° Elbow</i>	11577 B-99  <i>Flange Code 61</i>
11777 B-100  <i>Flange Code 61</i>	11977 B-100  <i>Flange Code 61</i>	 <b>Flange Code 62</b>	16A77 B-101  <i>Flange Code 62</i>	16F77 B-101  <i>Code 62 45° Elbow</i>	16N77 B-102  <i>Code 62 90° Elbow</i>
 <b>Caterpillar® Flange</b>	1XA77 B-102  <i>Caterpillar® - Flange</i>	1XF77 B-102  <i>Caterpillar® - Flange 45° Elbow</i>	1XB77 B-103  <i>Caterpillar® - Flange 22-1/2° Elbow</i>	1XG77 B-103  <i>Caterpillar® - Flange 60° Elbow</i>	1XN77 B-103  <i>Flange - 90° Elbow</i>
 <b>Seal-Lok®</b>	1JC77 B-104  <i>Female - Swivel Straight - Short</i>	1JS77 B-104  <i>Female - Swivel Straight - Long</i>	1J077 B-105  <i>Male - Rigid w/O-Ring</i>	1J177 B-105  <i>Female - Swivel 90° - Long</i>	1J777 B-105  <i>Female - Swivel 45° Elbow</i>
1J977 B-106  <i>Female - Swivel 90° Elbow - Short</i>	 <b>DIN "S" Series w/O-Ring</b>	11C77 B-106  <i>Female - Swivel 90° Elbow</i>	1C977 B-106  <i>Female - Swivel Straight</i>	10C77 B-107  <i>Female Metric S Swivel - 45° Elbow</i>	1D277 B-107  <i>Male Metric S Rigid - 24° Cone</i>
 <b>BSP</b>	1GU77 B-107  <i>Female - Swivel Straight</i>	 <b>24° Cone</b>	1ZM77 B-107  <i>Male 20° Cone</i>		



## 10177

### Male NPTF Pipe - Rigid - Straight

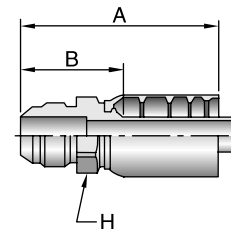
# Part Number	Thread inch	Hose I.D. inch	A		H mm	B	
			inch	mm		inch	mm
10177-8-8	1/2x14	1/2	2.72	69,2	22	1.50	38,2
10177-8-12	1/2x14	3/4	3.43	87,1	30	1.79	45,5
10177-12-12	3/4x14	3/4	3.43	87,1	30	1.79	45,5
10177-16-16	1x11-1/2	1	4.04	102,6	36	2.09	53,1
10177-20-20	1-1/4x11-1/2	1-1/4	4.57	116,1	46	2.30	58,4



## 10377

### Male JIC 37° - Rigid - Straight

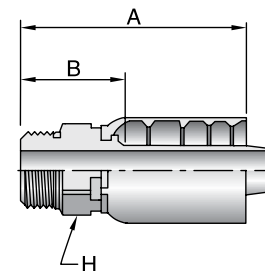
# Part Number	Thread inch		Hose I.D. inch	A		H mm	B	
				inch	mm		inch	mm
10377-8-8	1/2	3/4x16	1/2	2.61	66,4	22	1.39	35,4
10377-10-8	5/8	7/8x14	1/2	2.71	68,9	24	1.49	37,9
10377-16-16	1	1-5/16x12	1	3.99	101,3	36	2.04	51,8



## 10577





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

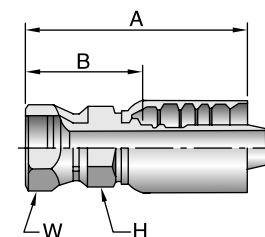
# Part Number	Thread inch		Hose I.D. inch	A		H inch	B	
				inch	mm		inch	mm
10577-8-8	1/2	3/4x16	1/2	2.39	60,8	22	1.17	29,8
10577-12-12	3/4	1-1/16x12	3/4	3.17	80,5	32	1.53	38,9
10577-16-16	1	1-5/16x12	1	3.73	94,7	41	1.78	45,2
10577-20-20	1-1/4	1-5/8x12	1-1/4	4.17	105,9	50	1.90	48,2



## 10677

### Female JIC 37° - Swivel - Straight

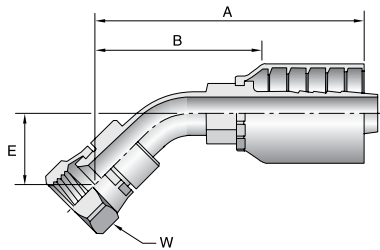
# Part Number				A				B	
	Thread inch		Hose I.D. inch	inch	mm	inch	mm	inch	mm
10677-8-8	1/2	3/4x16	1/2	2.79	71,1	22	22	1.58	40,1
10677-10-8	5/8	7/8x14	1/2	2.91	74,0	22	27	1.69	43,0
10677-10-10	5/8	7/8x14	5/8	3.18	80,7	24	27	1.83	46,5
10677-12-10	3/4	1-1/16x12	5/8	3.30	83,9	30	32	1.95	49,6
10677-12-12	3/4	1-1/16x12	3/4	3.68	93,5	30	32	2.05	52,0
10677-16-12	1	1-5/16x12	3/4	3.89	98,7	36	41	2.25	57,3
10677-16-16	1	1-5/16x12	1	4.16	105,7	36	41	2.21	56,2
10677-20-16	1-1/4	1-5/8x12	1	4.29	109,1	41	50	2.34	59,5
10677-20-20	1-1/4	1-5/8x12	1-1/4	4.86	123,5	46	50	2.59	65,8



⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43.

## 13777

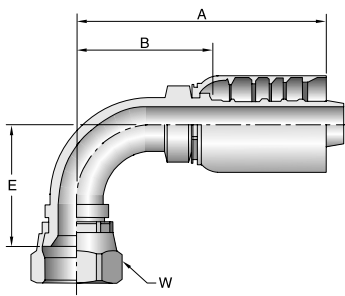
Female JIC 37° - Swivel - 45° Elbow - Short Drop



#										
Part Number	Thread		Hose I.D.	A	E			B		
	inch		inch	inch	mm	inch	mm	mm	inch	mm
13777-8-8	1/2	3/4x16	1/2	2.86	72,7	0.59	15	22	1.64	41,8
13777-12-12	3/4	1-1/16x12	3/4	4.37	110,9	0.83	21	32	2.73	69,4
13777-16-16	1	1-5/16x12	1	4.79	121,7	0.94	24	41	2.84	72,2
13777-20-20	1-1/4	1-5/8x12	1-1/4	6.03	153,2	1.26	32	50	3.76	95,5

## 13977

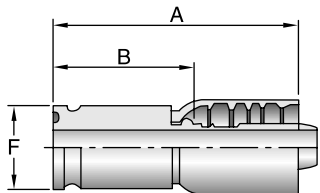
Female JIC 37° - Swivel - 90° Elbow - Short Drop



#										
Part Number	Thread		Hose I.D.	A	E			B		
	inch		inch	inch	mm	inch	mm	mm	inch	mm
13977-8-8	1/2	3/4x16	1/2	2.78	70,7	1.14	29,0	22	1.56	39,7
13977-12-12	3/4	1-1/16x12	3/4	4.23	107,4	1.89	48,0	32	2.60	66,0
13977-16-16	1	1-5/16x12	1	4.72	119,9	2.93	74,4	41	2.77	70,4
13977-20-20	1-1/4	1-5/8x12	1-1/4	5.81	147,6	3.07	78,0	50	3.54	90,0

## 1X577

Full Flange - Straight - Code 61/62



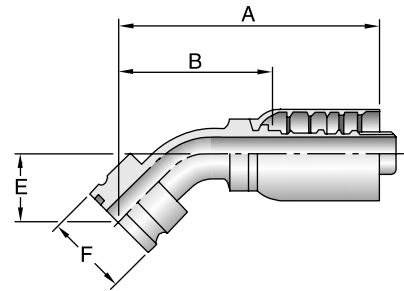
#								
Part Number	Flange	Hose I.D.	A	F	B			
	inch	inch	inch	inch	inch	mm	mm	mm
1X577-8-8	1/2	1/2	2.44	1.02	1.22	62,1	25,8	31,1
1X577-12-12	3/4	3/4	4.06	1.37	2.42	103,0	31,0	61,6
1X577-16-12	1	3/4	4.06	1.54	2.42	103,0	31,0	61,6
1X577-16-16	1	1	4.45	1.54	2.50	113,0	31,5	63,5
1X577-16-20	1	1-1/4	4.73	1.54	2.46	120,2	31,5	62,5
1X577-20-16	1-1/4	1	4.45	1.81	2.50	113,0	45,7	63,5
1X577-20-20	1-1/4	1-1/4	4.73	1.81	2.46	120,2	45,7	62,5
1X577-24-20	1-1/2	1-1/4	4.85	2.21	2.58	123,2	64,0	65,5

See Accessories Section for O-Rings and Flange Kits.

## 1X777

Full Flange - 45° Elbow - Code 61/62

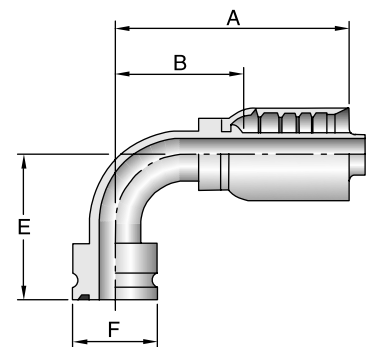
#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
1X777-12-12	3/4	3/4	4.67	118,5	1.12	28,5	1.37	3.03	77,0
1X777-16-12	1	3/4	4.66	118,3	1.12	28,5	1.54	3.02	76,8
1X777-16-16	1	1	5.11	129,8	1.26	32,0	1.54	3.16	80,3
1X777-16-20	1	1-1/4	5.74	145,8	1.50	38,0	1.54	3.47	88,1
1X777-20-16	1-1/4	1	5.35	135,9	1.50	38,0	1.81	3.40	86,4
1X777-20-20	1-1/4	1-1/4	6.27	159,3	1.50	38,0	1.81	4.00	101,6
1X777-24-20	1-1/2	1-1/4	6.51	165,4	1.73	44,0	2.21	4.24	107,7



## 1X977

Full Flange - 90° Elbow - Code 61/62

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
1X977-8-8	1/2	1/2	3.14	79,8	1.69	43,0	1.02	1.92	48,9
1X977-12-12	3/4	3/4	4.24	107,6	2.38	60,5	1.37	2.60	66,1
1X977-16-12	1	3/4	4.24	107,6	2.38	60,5	1.54	2.60	66,1
1X977-12-16	3/4	1	4.33	109,9	2.76	70,0	1.37	2.38	60,5
1X977-16-16	1	1	4.73	120,1	2.76	70,0	1.54	2.78	70,6
1X977-16-20	1	1-1/4	5.12	130,1	3.54	90,0	1.54	2.85	72,4
1X977-20-16	1-1/4	1	4.73	120,1	2.76	70,0	1.81	2.78	70,6
1X977-20-20	1-1/4	1-1/4	5.81	147,6	3.54	90,0	1.81	3.54	90,0
1X977-24-20	1-1/2	1-1/4	5.81	147,6	3.54	90,0	2.21	3.54	90,0

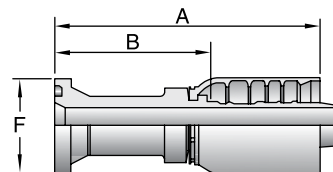


## 11577

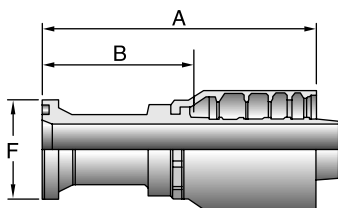
SAE Code 61 Flange Head

ISO 12151-3-S-L

#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
11577-8-8	1/2	1/2	3.52	89,6	1-3/16	2.30	58,6
11577-10-10	5/8	5/8	3.90	99,0	1-11/32	2.55	64,8
11577-12-12	3/4	3/4	4.23	107,4	1-1/2	2.59	65,9
11577-16-16	1	1	4.70	119,4	1-3/4	2.75	69,9






See Accessories Section for O-Rings and Flange Kits.



## 14A77

### SAE Code 61 Flange Head - Straight

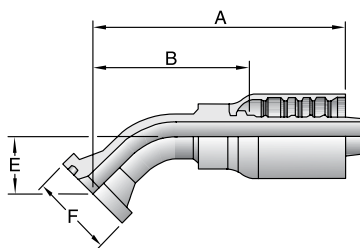
ISO 12151-3-S-L




#			A			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm
14A77-20-20	1-1/4	1-1/4	5.42	137,7	2	3.15	80,0
14A77-24-20	1-1/2	1-1/4	3.94	100,1	2-3/8	1.67	42,4

## 11777

### SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3-E45S-L (1 Piece: ISO 12151-3-E45M-L)

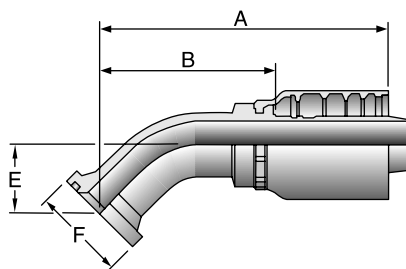





#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
11777-8-8	1/2	1/2	3.11	79,0	0.79	20,0	1-3/16	1.89	48,0
11777-12-12	3/4	3/4	4.57	116,0	1.02	26,0	1-1/2	2.93	74,5
11777-16-16	1	1	5.11	129,8	1.26	32,0	1-3/4	3.16	80,3

## 14F77

### SAE Code 61 5000 psi Flange Head - 45°

ISO 12151-3 E45S-L (1 PIECE: ISO 12151-3-E45M-L)

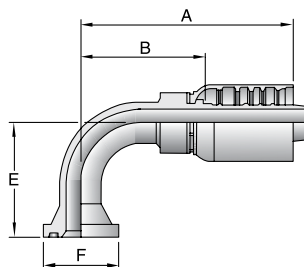





#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
14F77-20-20	1-1/4	1-1/4	6.27	159,3	1.50	38	2	4.00	101,6

## 11977

### SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3-E90S-L (1 Piece: ISO 12151-3-E90M-L)






#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
11977-8-8	1/2	1/2	2.99	76,0	1.61	41,0	1-3/16	1.77	45,0
11977-12-12	3/4	3/4	4.24	107,6	2.28	58,0	1-1/2	2.60	66,1
11977-16-16	1	1	4.72	119,9	2.76	70,0	1-3/4	2.77	70,4

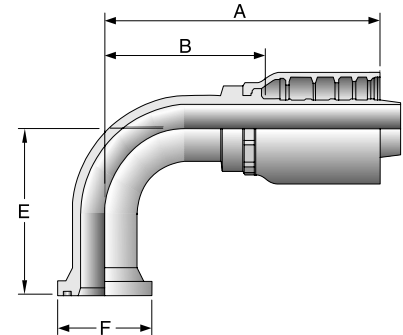
See Accessories Section for O-Rings and Flange Kits.

## 14N77

### SAE Code 61 Flange Head - 90°

ISO 12151-3-E90S-L (1 PIECE: ISO 12151-3-E90M-L)




#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
14N77-20-20	1-1/4	1-1/4	5.81	147,6	3.54	90	2	3.54	90,0

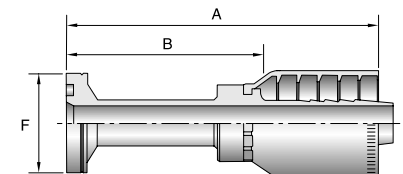


## 16A77

### SAE Code 62 Flange Head - Straight

ISO 12151-3-S-S




#			A			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm
16A77-12-10	3/4	5/8	2.95	74,9	1-5/8	1.60	40,7
16A77-12-12	3/4	3/4	4.49	113,9	1-5/8	2.85	72,5
16A77-16-12	1	3/4	3.47	88,1	1-7/8	1.83	46,6
16A77-16-16	1	1	5.26	133,6	1-7/8	3.31	84,1
16A77-20-16	1-1/4	1	4.05	102,9	2-1/8	2.10	53,4
16A77-20-20	1-1/4	1-1/4	5.73	145,6	2-1/8	3.46	87,8
16A77-24-20	1-1/2	1-1/4	4.65	118,1	2-1/2	2.38	60,4

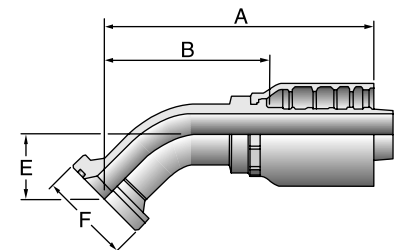


## 16F77

### SAE Code 62 Flange Head - 45° Elbow

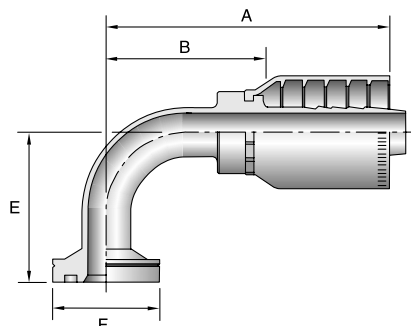
ISO 12151-3-E45S-S (1 PIECE: ISO 12151-3-E45M-S)

#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
16F77-12-12	3/4	3/4	4.57	116,0	1.02	26	1-5/8	2.93	74,5
16F77-16-16	1	1	5.11	129,8	1.26	32	1-7/8	3.16	80,3
16F77-16-20	1	1-1/4	5.74	145,8	1.50	38	1-7/8	3.47	88,1
16F77-20-16	1-1/4	1	5.11	129,8	1.26	32	2-1/8	3.16	80,3
16F77-20-20	1-1/4	1-1/4	6.27	159,3	1.50	38	2-1/8	4.00	101,6
16F77-24-20	1-1/2	1-1/4	6.27	159,3	1.50	38	2-1/2	4.00	101,6



See Accessories Section for O-Rings and Flange Kits.

A



## 16N77

### SAE Code 62 Flange Head - 90° Elbow

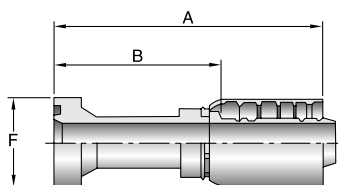
ISO 12151-3 - E90S - S (1 Piece: ISO 12151-3 - E90M - S)

#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16N77-12-12	3/4	3/4	4.24	107,6	2.28	58	1-5/8	2.60	66,1
16N77-12-16	3/4	1	4.41	112,0	2.76	70	1-5/8	2.46	62,5
16N77-16-12	1	3/4	4.24	107,6	2.28	58	1-7/8	2.60	66,1
16N77-16-16	1	1	4.72	119,9	2.76	70	1-7/8	2.77	70,4
16N77-16-20	1	1-1/4	5.12	130,1	3.54	90	1-7/8	2.85	72,4
16N77-20-16	1-1/4	1	4.72	119,9	2.76	70	2-1/8	2.77	70,4
16N77-20-20	1-1/4	1-1/4	5.81	147,6	3.54	90	2-1/8	3.54	90,0
16N77-24-20	1-1/2	1-1/4	5.81	147,6	3.54	90	2-1/2	3.54	90,0

B

## 1XA77

### Caterpillar® Flange Head - Straight



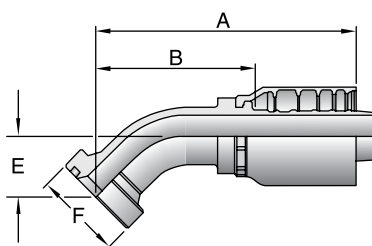
#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
1XA77-12-12	3/4	3/4	4.48	113,7	1-5/8	2.84	72,2
1XA77-16-16	1	1	5.54	140,7	1-7/8	3.59	91,2
1XA77-20-16	1-1/4	1	4.10	104,1	2-1/8	2.15	54,6
1XA77-20-20	1-1/4	1-1/4	5.98	151,9	2-1/8	3.71	94,2

C

D

## 1XF77

### Caterpillar® Flange Head - 45° Elbow



#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
1XF77-12-12	3/4	3/4	4.57	116,0	1.22	31,0	1-5/8	2.93	74,5
1XF77-16-16	1	1	5.26	133,6	1.42	36,0	1-7/8	3.31	84,1
1XF77-20-16	1-1/4	1	5.26	133,6	1.42	36,0	2-1/8	3.31	84,1
1XF77-20-20	1-1/4	1-1/4	6.23	158,2	1.46	37,0	2-1/8	3.96	100,6
1XF77-24-20	1-1/2	1-1/4	6.23	158,2	1.46	37,0	2-1/2	3.96	100,6

E

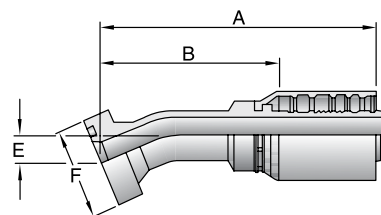
See Accessories Section for O-Rings and Flange Kits.



## 1XB77

### Caterpillar® Flange Head - 22-1/2° Elbow

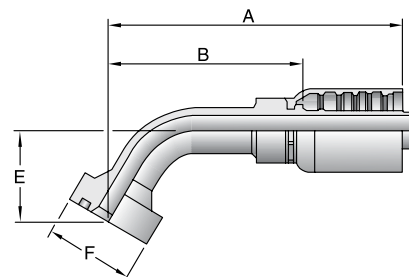
# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm		inch	mm
1XB77-16-16	1	1	5.66	143,8	0.55	14,0	1-7/8	3.71	94,2
1XB77-20-20	1-1/4	1-1/4	6.60	167,7	0.58	14,7	2-1/8	4.33	109,9



## 1XG77

### Caterpillar® Flange Head - 60° Elbow

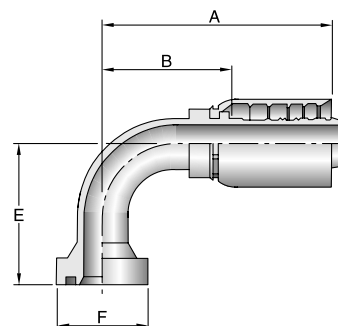
# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm		inch	mm
1XG77-12-12	3/4	3/4	5.35	135,8	1.65	42,0	1-5/8	3.71	94,3
1XG77-16-16	1	1	5.98	151,9	1.97	50,0	1-7/8	4.03	102,4
1XG77-20-20	1-1/4	1-1/4	7.74	196,6	2.01	51,0	2-1/8	5.47	138,9



## 1XN77

### Caterpillar® Flange Head - 90° Elbow

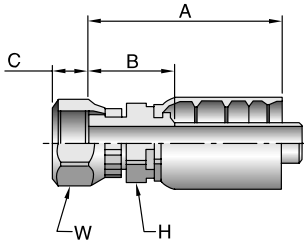
# Part Number	Flange inch	Hose I.D. inch	A		E		F	B	
			inch	mm	inch	mm		inch	mm
1XN77-12-12	3/4	3/4	4.23	107,4	2.48	63,0	1-5/8	2.59	65,9
1XN77-16-16	1	1	4.73	120,1	2.91	74,0	1-7/8	2.78	70,5
1XN77-20-16	1-1/4	1	4.73	120,1	2.91	74,0	2-1/8	2.78	70,5
1XN77-20-20	1-1/4	1-1/4	5.81	147,6	3.70	94,0	2-1/8	3.54	90,0
1XN77-24-20	1-1/2	1-1/4	5.81	147,6	3.03	77,0	2-1/2	3.54	90,0



See Accessories Section for O-Rings and Flange Kits.

## 1JC77

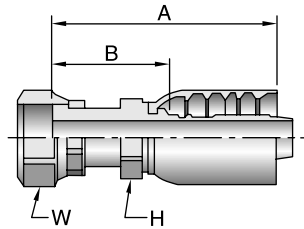
**Female Seal-Lok® - Swivel - Straight - Short**  
 ISO 12151-1-SWSA







#										
Part Number	Thread	Hose I.D.	A		C		H	W	B	
	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm
1JC77-8-8	1/2	13/16x16	2.35	59,8	0.43	11	22	24	1.13	28,8
1JC77-10-10	5/8	1x14	2.75	69,8	0.48	12	24	30	1.40	35,6

## 1JS77

**Female Seal-Lok® - Swivel - Straight - Long**  
 ISO 12151-1-SWSB



#				A				B	
Part Number	Thread inch		Hose I.D. inch	inch	mm	H inch	W inch	inch	mm
1JS77-8-8	1/2	13/16x16	1/2	2.80	71,2	22	24	1.58	40,2
1JS77-10-8	5/8	1x14	1/2	2.95	75,0	24	30	1.73	44,0
1JS77-10-10	5/8	1x14	5/8	3.21	81,5	24	30	1.86	47,3
1JS77-12-8	3/4	1-3/16x12	1/2	3.15	80,1	30	36	1.93	49,1
1JS77-12-10	3/4	1-3/16x12	5/8	3.35	85,1	30	36	2.00	50,8
1JS77-12-12	3/4	1-3/16x12	3/4	3.68	93,4	30	36	2.04	51,9
1JS77-12-16	3/4	1-3/16x12	1	4.18	106,2	36	36	2.23	56,7
1JS77-16-12	1	1-7/16x12	3/4	3.90	99,0	36	41	2.26	57,5
1JS77-16-16	1	1-7/16x12	1	4.19	106,4	36	41	2.24	56,9
1JS77-16-20	1	1-7/16x12	1-1/4	4.71	119,7	46	41	2.44	62,0
1JS77-20-16	1-1/4	1-11/16x12	1	4.29	108,9	41	50	2.34	59,5
1JS77-20-20	1-1/4	1-11/16x12	1-1/4	4.78	121,4	46	50	2.51	63,8

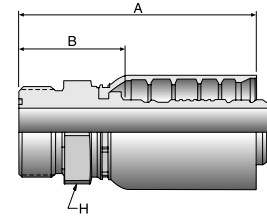
See Accessories Section for O-Rings and Flange Kits.

## 1J077

### Male Seal-Lok® - Rigid - Straight - (with O-Ring)

ISO 12151-1-S

# Part Number	Thread inch	Hose I.D. inch	A		H mm	B	
			inch	mm		inch	mm
1J077-10-8	1x14	1/2	2.67	67,9	27	1.45	36,9
1J077-12-10	1-3/16x12	5/8	2.97	75,4	30	1.62	41,2
1J077-12-12	1-3/16x12	3/4	3.27	82,9	32	1.63	41,5
1J077-16-12	1-7/16x12	3/4	3.32	84,3	41	1.68	42,8
1J077-16-16	1-7/16x12	1	3.74	95,0	41	1.79	45,5
1J077-20-16	1-11/16x12	1	3.68	93,4	46	1.73	43,9

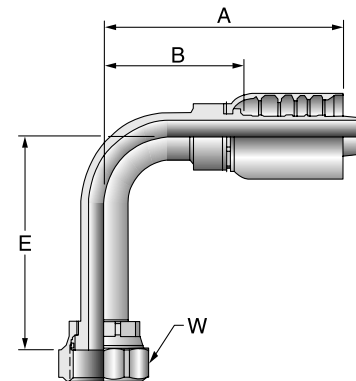


## 1J177

### Female Seal-Lok® - Swivel - 90° Elbow - Long Drop

ISO 12151-1-SWEL90

# Part Number	Thread inch	Hose I.D. inch	A		E		W mm	B	
			inch	mm	inch	mm		inch	mm
1J177-8-8	13/16x16	1/2	2.77	70,5	2.52	64	24	1.55	39,5
1J177-10-10	1x14	5/8	3.21	81,5	2.76	70	30	1.86	47,3
1J177-12-12	1-13/16x12	3/4	4.23	107,4	3.78	96	36	2.59	65,9
1J177-16-16	1-7/16x12	1	4.73	120,1	4.49	114	41	2.78	70,6

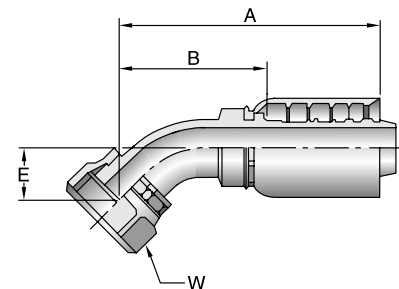


## 1J777

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1-SWE45

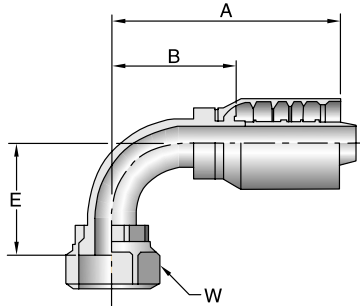
# Part Number	Thread inch		Hose I.D. inch	A		E		W inch	B	
				inch	mm	inch	mm		inch	mm
1J777-8-8	1/2	13/16x16	1/2	2.86	72,7	0.59	15	24	1.64	41,8
1J777-10-10	5/8	1x14	5/8	3.28	83,3	0.63	16	30	1.93	49,0
1J777-12-12	3/4	1-3/16x12	3/4	4.39	111,4	0.83	21	36	2.75	69,9
1J777-16-16	1	1-7/16x12	1	4.79	121,7	0.94	24	41	2.84	72,2
1J777-20-20	1-1/4	1-11/16x12	1-1/4	5.69	144,6	0.98	25	50	3.42	86,8



See Accessories Section for O-Rings and Flange Kits.

## 1J977

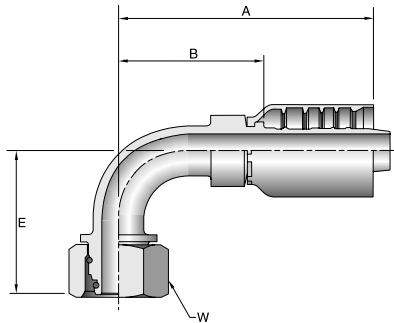
**Female Seal-Lok® - Swivel - 90° Elbow - Short Drop**  
 ISO 12151-1-SWES90



#	Thread	Hose I.D.	A		E		W	B	
Part Number	inch	inch	inch	mm	inch	mm	mm	inch	mm
1J977-8-8	1/2 13/16x16	1/2	2.78	70,7	1.14	29	24	1.56	39,7
1J977-10-10	5/8 1x14	5/8	3.21	81,5	1.26	32	30	1.86	47,3
1J977-12-12	3/4 1-3/16x12	3/4	4.23	107,5	1.89	48	36	2.60	66,0
1J977-16-16	1 1-7/16x12	1	4.73	120,1	2.20	56	41	2.78	70,6
1J977-16-20	1 1-7/16x12	1-1/4	5.12	130,1	2.20	56	41	2.85	72,4
1J977-20-20	1-1/4 1-11/16x12	1-1/4	5.73	145,5	2.52	64	50	3.46	87,9

## 11C77

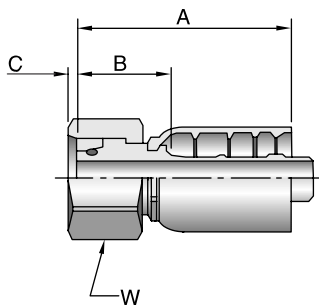
**Female Metric S - Swivel - 90° Elbow - (24° Cone with O-Ring)**  
 ISO 12151-2-SWE



#	Thread	Hose I.D.	A		E		W	B	
Part Number	inch	inch	inch	mm	inch	mm	mm	inch	mm
11C77-16-8	M24x1,5	1/2	3.03	77	1.77	45	30	1.65	45
11C77-20-12	M30x2	3/4	4.25	108	2.36	60	36	2.44	62
11C77-25-12	M36x2	3/4	4.25	108	2.32	59	46	2.44	62
11C77-30-16	M42x2	1	5.16	131	2.72	69	50	3.03	77
11C77-38-20	M52x2	1-1/4	5.94	151	3.07	78	60	3.42	87

## 1C977

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



#	Thread	Hose I.D.	A		C		W	B	
Part Number	mm	inch	inch	mm	inch	mm	mm	inch	mm
1C977-16-8	16 M24x1,5	1/2	2.34	59,5	0.09	2,0	30	1.12	28,5
1C977-20-10	20 M30x2	5/8	2.64	67,0	0.05	1,0	36	1.29	32,8
1C977-20-12	20 M30x2	3/4	2.99	76,0	0.07	1,9	36	1.18	30,0
1C977-25-12	25 M36x2	3/4	3.00	76,5	0.10	3,0	46	1.37	35,0
1C977-30-16	30 M42x2	1	3.50	89,0	0.19	5,0	50	1.55	39,5
1C977-38-20	38 M52x2	1-1/4	3.86	98,0	0.27	6,9	60	1.38	35,0

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

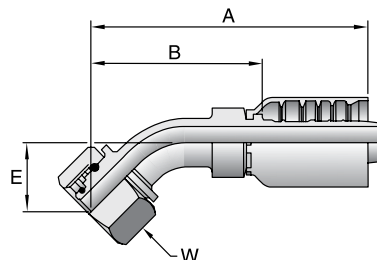
See Accessories Section for O-Rings and Flange Kits.

## 10C77

### Female Metric S - Swivel - 45° Elbow - (24° Cone with O-Ring)

ISO 12151-2-SWE-45

# Part Number	Thread mm	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
10C77-16-8	16 M24x1,5	1/2	3.26	82,9	0.93	23,5	30	2.04	51,9
10C77-20-10	20 M30x2	5/8	4.21	106,9	1.10	28,0	36	2.86	72,7
10C77-25-12	25 M36x2	3/4	4.69	119,0	1.14	29,0	46	3.05	77,6
10C77-30-16	30 M42x2	1	5.59	142,0	1.30	33,0	50	3.64	92,5
10C77-38-20	38 M52x2	1-1/4	6.33	160,8	1.44	36,5	60	4.06	103,1

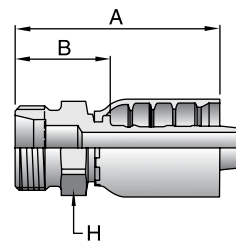


## 1D277

### Male Metric S - Rigid - (24° Cone)

End Connection per ISO 8434-1-BHS

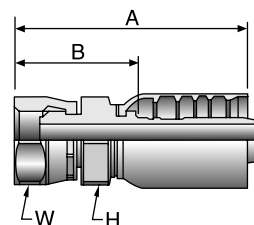
# Part Number	Thread mm	Hose I.D. inch	A		H	B	
			inch	mm	mm	inch	mm
1D277-16-8	M24x1,5	1/2	2.53	64,4	24	1.31	33,4
1D277-20-10	M30x2	5/8	2.85	72,4	30	1.50	38,1
1D277-25-12	M36x2	3/4	3.39	86,3	36	1.76	44,8
1D277-30-16	M42x3	1	3.91	99,3	46	1.96	49,8
1D277-38-20	M52x2	1-1/4	4.50	114,3	55	2.23	56,6



## 1GU77

### Female BSP Parallel Pipe - Swivel - Straight (60° Cone)

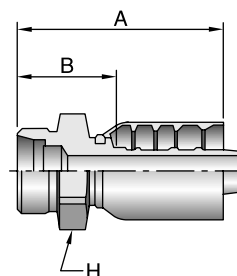
# Part Number	Thread inch	Hose I.D. inch	A		H	W	B	
			inch	mm	inch	inch	inch	mm
1GU77-12-12	3/4x14	3/4	3.74	94,9	36	36	2.10	53,4
1GU77-16-16	1x11	1	4.33	110,0	41	41	2.38	60,5

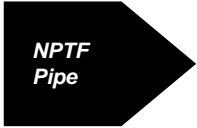
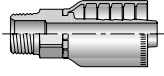

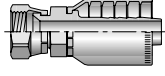
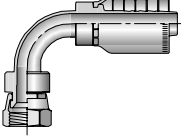

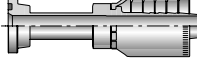
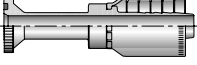
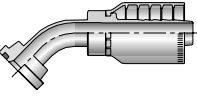
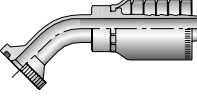
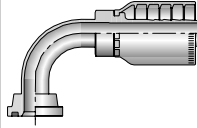
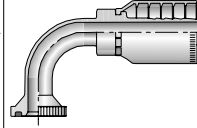

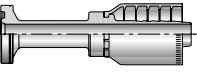
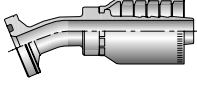
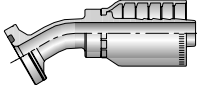
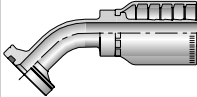
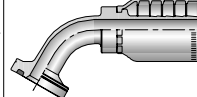
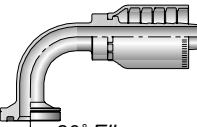

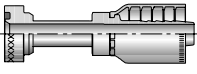
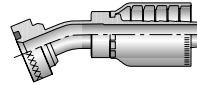
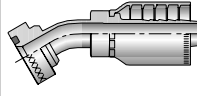
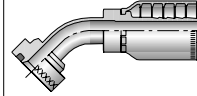
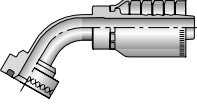
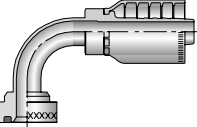

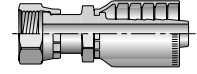
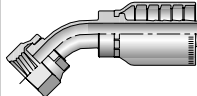
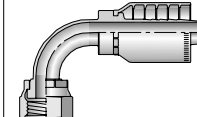

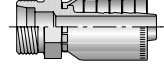

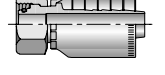
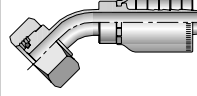
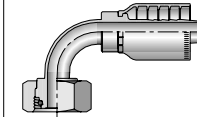

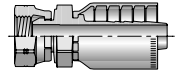


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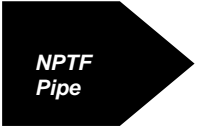
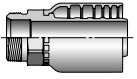

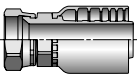

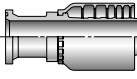
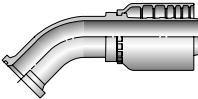
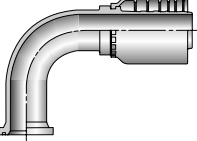

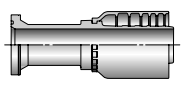
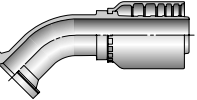
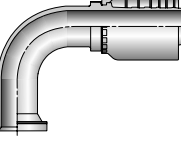

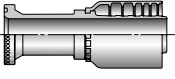

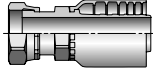
### Male 24° Cone Metric - Rigid - Straight

# Part Number	Thread mm	Hose I.D. inch	A		H	B	
			inch	mm	mm	inch	mm
1ZM77-22-10	M30x1,5	5/8	2.83	71,8	36	1.48	37,6
1ZM77-28-12	M36x1,5	3/4	3.38	85,8	41	1.74	44,3
1ZM77-28-16	M36x1,5	1	3.77	95,8	41	1.82	46,2
1ZM77-35-16	M45x1,5	1	3.85	97,8	50	1.90	48,3



A	 <b>NPTF Pipe</b>	10178 B-110  <i>Male - Rigid</i>	 <b>JIC 37°</b>	10678 B-110  <i>Female - Swivel</i>	13978 B-110  <i>Female - Swivel</i>	 <b>Code 61 Flange</b>
	11578 B-110  <i>Flange</i>	14A78 B-111  <i>Flange (5000 psi)</i>	11778 B-111  <i>45° Elbow</i>	14F78 B-111  <i>45° Elbow (5000 psi)</i>	11978 B-111  <i>90° Elbow</i>	14N78 B-112  <i>90° Elbow (5000 psi)</i>
B	 <b>Code 62 Flange</b>	16A78 B-112  <i>Flange</i>	16B78 B-112  <i>22-1/2° Elbow</i>	16E78 B-112  <i>30° Elbow</i>	16F78 B-113  <i>45° Elbow</i>	16G78 B-113  <i>60° Elbow</i>
	16N78 B-113  <i>90° Elbow</i>	 <b>Caterpillar® Flange</b>	1XA78 B-114  <i>Flange</i>	1XB78 B-114  <i>22-1/2° Elbow</i>	1XE78 B-114  <i>30° Elbow</i>	1XF78 B-115  <i>45° Elbow</i>
C	1XG78 B-115  <i>60° Elbow</i>	1XN78 B-115  <i>90° Elbow</i>	 <b>Seal-Lok® (O-Ring Face Seal)</b>	1JS78 B-116  <i>Female - Swivel Long</i>	1J778 B-116  <i>Female - Swivel 45° Elbow</i>	1J978 B-116  <i>Female - Swivel 90° Elbow - Short</i>
	 <b>DIN "S" Series</b>	1D278 B-117  <i>Male - Rigid</i>	 <b>DIN "S" Series w/O-Ring</b>	1C978 B-117  <i>Female - Rigid</i>	10C78 B-117  <i>Female - Swivel 45° Elbow</i>	11C78 B-117  <i>Female - Swivel 90° Elbow</i>
E	 <b>BSP 60° Cone</b>	1GU78 B-117  <i>Female - Swivel</i>				



 <p><b>NPTF Pipe</b></p>	<p>101S6 B-118</p>  <p><i>Male - Rigid</i></p>	 <p><b>JIC 37°</b></p>	<p>106S6 B-118</p>  <p><i>Female - Swivel</i></p>	 <p><b>Code 61 Flange</b></p>	<p>14AS6 B-118</p>  <p><i>Flange (5000 psi)</i></p>
<p>14FS6 B-118</p>  <p><i>45° Elbow (5000 psi)</i></p>	<p>14NS6 B-118</p>  <p><i>90° Elbow (5000 psi)</i></p>	 <p><b>Code 62 Flange</b></p>	<p>16AS6 B-119</p>  <p><i>Flange Head - Straight</i></p>	<p>16FS6 B-119</p>  <p><i>45° Elbow</i></p>	<p>16NS6 B-119</p>  <p><i>90° Elbow</i></p>
 <p><b>Caterpillar® Flange</b></p>	<p>1XAS6 B-119</p>  <p><i>Flange</i></p>	 <p><b>Seal-Lok® (O-Ring Face Seal)</b></p>	<p>1JSS6 B-119</p>  <p><i>Female - Swivel</i></p>		

A

B

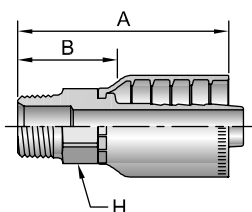
C

D

E

## 10178

### Male NPTF Pipe - Rigid

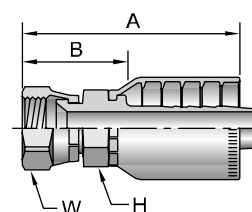


#	Thread	Hose I.D.	A		H	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
10178-12-12	3/4x14	3/4	3.56	90	1-1/8	1.80	46
10178-16-16	1x11-1/2	1	3.94	100	1-3/8	2.09	53
10178-20-20	1-1/4x11-1/2	1-1/4	4.92	125	1-3/4	2.53	64
10178-24-24	1-1/2x11-1/2	1-1/2	4.88	124	2	2.67	68

All sizes of 10178 fittings are rated at 5,000 psi working pressure.

## 10678

### Female JIC 37° - Swivel



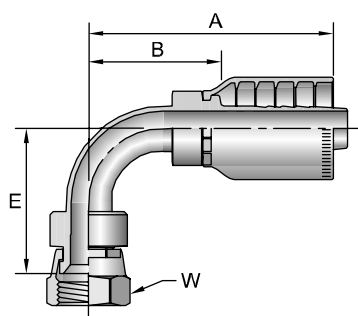
#	Thread	Hose I.D.	A		H	W	B		Additional Material
Part Number	inch	inch	inch	mm	inch	inch	inch	mm	Stainless Steel (C)
10678-12-12	3/4 1-1/16x12	3/4	3.66	93	1-1/8	1-1/4	1.90	48	•
10678-16-12	1 1-5/16x12	3/4	3.90	99	1-3/8	1-1/2	2.14	54	•
10678-16-16	1 1-5/16x12	1	4.03	102	1-3/8	1-1/2	2.18	55	•
10678-20-20	1-1/4 1-5/8x12	1-1/4	4.93	125	1-3/4	2	2.54	65	•
10678-24-24	1-1/2 1-7/8x12	1-1/2	5.04	128	2	2-1/4	2.83	72	•

All sizes of 10678 fittings are rated at 5,000 psi working pressure.

⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43.

## 13978

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



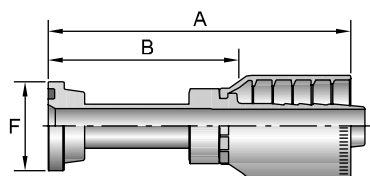
#	Thread	Hose I.D.	A		E		W	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
13978-12-12	3/4 1-1/16x12	3/4	4.12	105	2.44	62	1-1/2	2.36	60
13978-16-16	1 1-5/16x12	1	4.71	120	2.93	74	1-1/2	2.86	73
13978-20-20	1-1/4 1-5/8x12	1-1/4	5.67	144	3.35	85	2	3.28	83

All sizes of 13978 fittings are rated at 5,000 psi working pressure.

## 11578

### SAE Code 61 Flange Head

#### ISO 12151-3 - S - L






#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
11578-12-12	3/4	3/4	4.34	110	1-1/2	2.58	66
11578-16-16	1	1	4.59	117	1-3/4	2.74	70

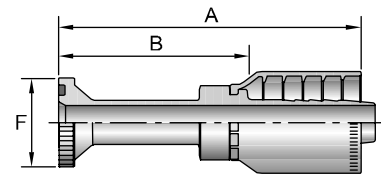
See Accessories Section for O-Rings and Flange Kits.

## 14A78

**SAE Code 61 Flange Head - 5,000 psi**

ISO 12151-3 - S - L (5000 psi)




#			A			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm
14A78-20-20	1-1/4	1-1/4	5.54	141	2	3.15	80
14A78-24-24	1-1/2	1-1/2	6.53	166	2-3/8	4.32	110
14A78-32-24	2	1-1/2	4.68	119	2-13/16	2.47	63

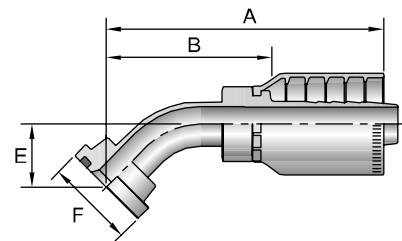


## 11778

**SAE Code 61 Flange Head - 45° Elbow**

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)




#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
11778-12-12	3/4	3/4	4.67	119	1.06	27	1-1/2	2.91	74
11778-16-16	1	1	5.01	127	1.26	32	1-3/4	3.16	80

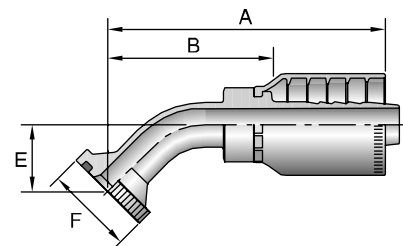


## 14F78

**SAE Code 61 Flange Head - 45° Elbow - 5,000 psi**

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L) (5000 psi)




#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
14F78-20-20	1-1/4	1-1/4	6.39	162	1.50	38	2	4.00	102
14F78-24-24	1-1/2	1-1/2	6.99	178	1.73	44	2-3/8	4.78	121

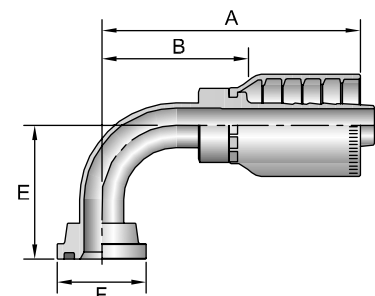


## 11978

**SAE Code 61 Flange Head - 90° Elbow**

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
11978-12-12	3/4	3/4	4.35	110	2.25	57	1-1/2	2.59	66
11978-16-16	1	1	4.67	119	2.76	70	1-3/4	2.82	72

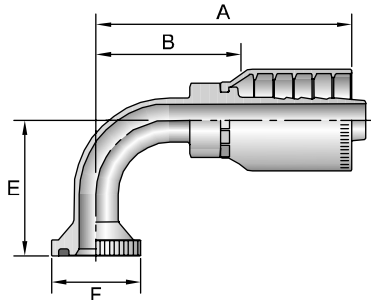


See Accessories Section for O-Rings and Flange Kits.

## 14N78

**SAE Code 61 Flange Head - 90° Elbow - 5,000 psi**

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L) (5000 psi)

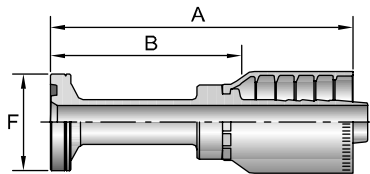


#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
14N78-20-16	1-1/4	1	4.63	118	2.76	70	2	2.78	71
14N78-20-20	1-1/4	1-1/4	6.09	155	3.54	90	2	3.70	94
14N78-24-24	1-1/2	1-1/2	6.52	166	4.09	104	2-3/8	4.31	109

## 16A78

**SAE Code 62 Flange Head**

ISO 12151-3 - S - S

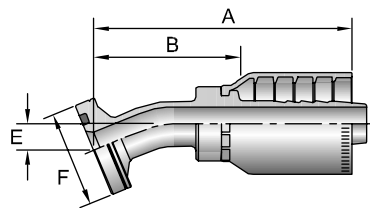


#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
16A78-12-12	3/4	3/4	4.60	117	1-5/8	2.84	72
16A78-16-12	1	3/4	3.57	91	1-7/8	1.81	46
16A78-16-16	1	1	5.16	131	1-7/8	3.31	84
16A78-20-16	1-1/4	1	3.95	100	2-1/8	2.10	53
16A78-20-20	1-1/4	1-1/4	5.85	149	2-1/8	3.46	88
16A78-24-20	1-1/2	1-1/4	4.77	121	2-1/2	2.38	60
16A78-24-24	1-1/2	1-1/2	6.54	166	2-1/2	4.33	110
16A78-32-24	2	1-1/2	5.07	129	3-1/8	2.86	73

## 16B78

**SAE Code 62 Flange Head - 22-1/2° Elbow**

ISO 12151-3 - E22M - S

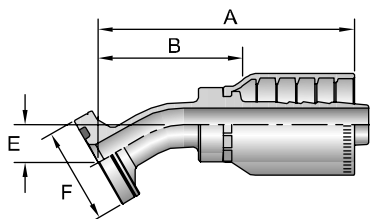


#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16B78-16-16	1	1	4.57	116	0.46	12	1-7/8	2.72	60

## 16E78

**SAE Code 62 Flange Head - 30° Elbow**

ISO 12151-3 - E30S - S (1 Piece: ISO 12151-3 - E30M - S)



#	Flange	Hose I.D.	A		E		F	B	
Part Number	inch	inch	inch	mm	inch	mm	inch	inch	mm
16E78-20-20	1-1/4	1-1/4	6.71	170	0.87	22	2-1/8	4.32	110
16E78-24-24	1-1/2	1-1/2	7.10	180	1.12	28	2-1/2	4.89	124

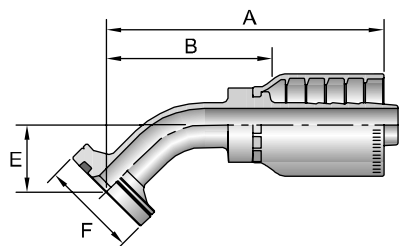
See Accessories Section for O-Rings and Flange Kits.

## 16F78

### SAE Code 62 Flange Head - 45° Elbow

ISO 12151-3 - E45S - S (1 Piece: ISO 12151-3 - E45M - S)

#			A		E		F	B	
Part Number	Flange	Hose I.D.	inch	mm	inch	mm	inch	inch	mm
16F78-12-12	3/4	3/4	4.31	109	1.02	26	1-5/8	2.55	65
16F78-16-12	1	3/4	4.83	123	1.22	31	1-7/8	3.07	78
16F78-16-16	1	1	5.04	128	1.26	32	1-7/8	3.19	81
16F78-20-16	1-1/4	1	5.01	127	1.26	32	2-1/8	3.16	80
16F78-20-20	1-1/4	1-1/4	6.39	162	1.50	38	2-1/8	4.00	102
16F78-24-20	1-1/2	1-1/4	6.39	162	1.50	38	2-1/2	4.00	102
16F78-24-24	1-1/2	1-1/2	6.99	178	1.73	44	2-1/2	4.78	121

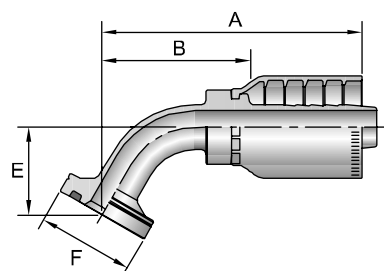


## 16G78

### SAE Code 62 Flange Head - 60° Elbow

ISO 12151-3 - E60S - S (1 Piece: ISO 12151-3 - E60M - S)

#			A		E		F	B	
Part Number	Flange	Hose I.D.	inch	mm	inch	mm	inch	inch	mm
16G78-16-16	1	1	5.85	149	1.73	44	1-7/8	4.00	102
16G78-20-20	1-1/4	1-1/4	7.72	196	2.17	55	2-1/8	5.33	135
16G78-24-24	1-1/2	1-1/2	8.41	214	2.52	64	2-1/2	6.20	157

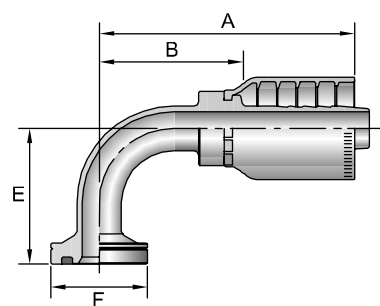


## 16N78

### SAE Code 62 Flange Head - 90° Elbow

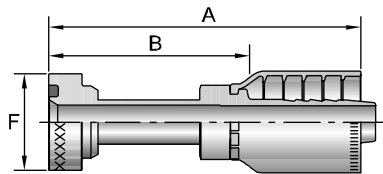
ISO 12151-3 - E90S - S (1 Piece: ISO 12151-3 - E90M - S)




#			A		E		F	B	
Part Number	Flange	Hose I.D.	inch	mm	inch	mm	inch	inch	mm
16N78-12-12	3/4	3/4	4.00	102	2.28	58	1-5/8	2.24	57
16N78-16-12	1	3/4	3.97	101	2.28	58	1-7/8	2.21	56
16N78-16-16	1	1	4.63	118	2.76	70	1-7/8	2.78	71
16N78-20-16	1-1/4	1	4.63	118	2.76	70	2-1/8	2.78	71
16N78-20-20	1-1/4	1-1/4	6.09	155	3.54	90	2-1/8	3.70	94
16N78-24-16	1-1/2	1	5.04	126	2.70	69	2-1/2	3.19	81
16N78-24-20	1-1/2	1-1/4	6.09	155	3.54	90	2-1/2	3.70	94
16N78-24-24	1-1/2	1-1/2	6.52	166	4.09	104	2-1/2	4.31	109
16N78-32-24	2	1-1/2	6.52	166	4.09	104	3-1/8	4.31	109



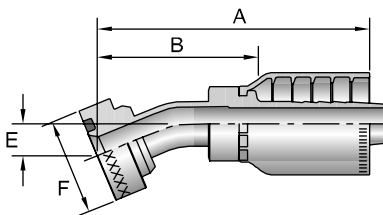
See Accessories Section for O-Rings and Flange Kits.




## 1XA78 Caterpillar® Flange Head



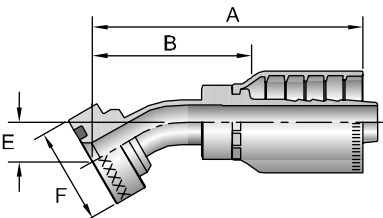
#			A			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm
1XA78-12-12	3/4	3/4	4.85	123,2	1-5/8	3.09	78,5
1XA78-16-12	1	3/4	5.29	134,4	1-7/8	3.53	89,7
1XA78-16-16	1	1	5.44	138,2	1-7/8	3.59	91,2
1XA78-20-16	1-1/4	1	5.65	143,5	2-1/8	3.80	96,5
1XA78-20-20	1-1/4	1-1/4	6.10	154,9	2-1/8	3.71	94,2
1XA78-24-20	1-1/2	1-1/4	6.35	161,3	2-1/2	3.96	100,6
1XA78-24-24	1-1/2	1-1/2	6.78	172,2	2-1/2	4.57	116,1




## 1XB78 Caterpillar® Flange Head - 22-1/2° Elbow



#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1XB78-12-12	3/4	3/4	4.59	117	0.54	14	1-5/8	2.83	72
1XB78-16-16	1	1	4.66	118	0.50	13	1-7/8	2.81	71
1XB78-20-16	1-1/4	1	4.66	118	0.50	13	2-1/8	2.81	71
1XB78-20-20	1-1/4	1-1/4	7.21	183	0.80	20	2-1/8	4.82	122
1XB78-24-20	1-1/2	1-1/4	7.21	183	0.80	20	2-1/2	4.82	122
1XB78-24-24	1-1/2	1-1/2	7.08	180	0.73	19	2-1/2	4.87	124

## 1XE78 Caterpillar® Flange Head - 30° Elbow



#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1XE78-16-16	1	1	5.08	129	0.79	20	1-7/8	3.23	82
1XE78-20-16	1-1/4	1	5.10	128	0.80	20	2-1/8	3.25	83
1XE78-20-20	1-1/4	1-1/4	6.38	162	0.93	24	2-1/8	3.99	101
1XE78-24-20	1-1/2	1-1/4	6.38	162	0.93	24	2-1/2	3.99	101
1XE78-24-24	1-1/2	1-1/2	7.10	180	1.14	29	2-1/2	4.89	124

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 thicker than SAE Code 62 and measure to a .560" thickness in all sizes.

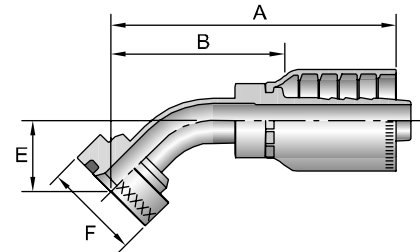
See Accessories Section for O-Rings and Flange Kits.



## 1XF78

### Caterpillar® Flange Head - 45° Elbow

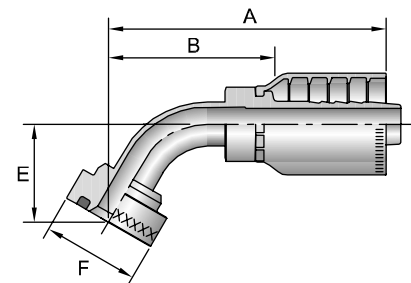
#			A		E		F	B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1XF78-12-12	3/4	3/4	4.82	122	1.21	31	1-5/8	3.06	78
1XF78-16-12	1	3/4	4.81	120	1.20	30	1-7/8	3.05	77
1XF78-16-16	1	1	5.46	139	1.43	36	1-7/8	3.61	92
1XF78-20-16	1-1/4	1	5.46	139	1.43	36	2-1/8	3.61	92
1XF78-20-20	1-1/4	1-1/4	6.38	162	1.44	37	2-1/8	3.99	101
1XF78-24-20	1-1/2	1-1/4	6.38	162	1.44	37	2-1/2	3.99	101
1XF78-24-24	1-1/2	1-1/2	6.89	175	1.54	39	2-1/2	4.68	119



## 1XG78

### Caterpillar® Flange Head - 60° Elbow

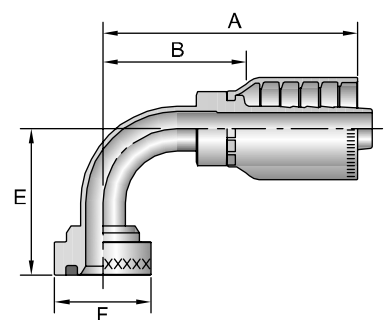
#			A		E		F	B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1XG78-16-16	1	1	5.13	130	1.96	50	1-7/8	3.28	83
1XG78-20-20	1-1/4	1-1/4	6.72	171	2.02	51	2-1/8	4.33	110
1XG78-24-24	1-1/2	1-1/2	6.87	174	2.04	52	2-1/2	4.67	119



## 1XN78

### Caterpillar® Flange Head - 90° Elbow

#			A		E		F	B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1XN78-12-12	3/4	3/4	4.35	110	2.46	62	1-5/8	2.59	66
1XN78-12-16	3/4	1	4.58	116	2.46	62	1-5/8	2.73	69
1XN78-16-12	1	3/4	4.35	110	2.44	62	1-7/8	2.59	66
1XN78-16-16	1	1	5.04	128	2.90	74	1-7/8	3.19	81
1XN78-20-16	1-1/4	1	5.04	128	2.90	74	2-1/8	3.19	81
1XN78-20-20	1-1/4	1-1/4	6.75	171	3.02	77	2-1/8	4.36	111
1XN78-24-20	1-1/2	1-1/4	6.75	171	3.02	77	2-1/2	4.36	111
1XN78-24-24	1-1/2	1-1/2	5.85	149	3.41	87	2-1/2	3.64	92



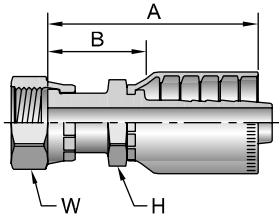
Caterpillar® style fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are thicker than SAE Code 62 and measure to a .560" thickness in all sizes.

See Accessories Section for O-Rings and Flange Kits.

## 1JS78

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB



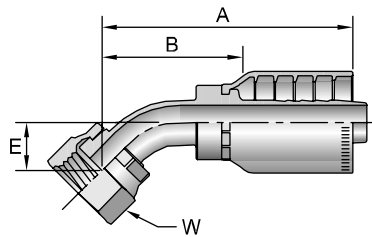
#									
Part Number	Thread	inch	Hose I.D.	inch	mm	A	H	W	B
1JS78-12-12	3/4	1-3/16x12	3/4	3.70	94	1-1/8	1-3/8	1.94	49
1JS78-16-16	1	1-7/16x12	1	4.03	102	1-3/8	1-5/8	2.18	55
1JS78-20-16	1-1/4	1-11/16x12	1	3.99	101	1-3/4	1-7/8	2.14	54
1JS78-20-20	1-1/4	1-11/16x12	1-1/4	4.62	117	1-3/4	1-7/8	2.23	57
1JS78-24-24	1-1/2	2-12	1-1/2	4.70	119,4	2	2-1/4	2.49	63,2

⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43.

## 1J778

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45



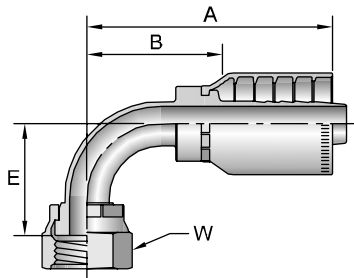
#									
Part Number	Thread	inch	Hose I.D.	inch	mm	A	E	W	B
1J778-12-12	3/4	1-3/16x12	3/4	4.11	104	0.81	21	1-3/8	2.35
1J778-16-16	1	1-7/16x12	1	4.69	119	0.94	24	1-5/8	2.84
1J778-20-20	1-1/4	1-11/16x12	1-1/4	5.78	147	0.98	25	1-7/8	3.29
1J778-24-24	1-1/2	2x12	1-1/2	6.91	176	1.56	40	2-1/4	4.70

⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43.

## 1J978

### Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

ISO 12151-1 - SWES90



#									
Part Number	Thread	inch	Hose I.D.	inch	mm	A	E	W	B
1J978-12-12	3/4	1-3/16x12	3/4	3.97	100	1.89	48	1-3/8	2.21
1J978-16-16	1	1-7/16x12	1	4.62	117	2.21	56	1-5/8	2.77
1J978-20-20	1-1/4	1-11/16x12	1-1/4	5.82	148	2.52	64	1-7/8	3.43
1J978-24-24	1-1/2	2x12	1-1/2	6.58	167	2.70	69	2-1/4	4.37

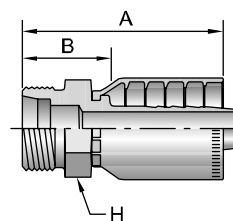
⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43.

See Accessories Section for O-Rings and Flange Kits.

## 1D278

**Male Metric S - Rigid - (24° Cone)**

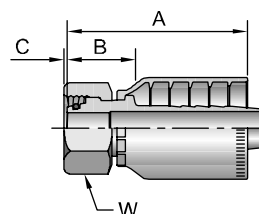
#									
Part Number	Thread	Hose I.D.	A	H	B				
	mm	inch	inch	mm	inch	mm			
1D278-25-12	25 M36x2	3/4	3.38	86	36	1.62	41		
1D278-30-16	30 M42x2	1	3.72	94	46	1.87	47		
1D278-38-20	38 M52x2	1-1/4	4.42	112	55	2.03	52		



## 1C978

**Female Metric S - Swivel - (24° Cone with O-Ring)**

#									
Part Number	Thread	Hose I.D.	A	C	W	B			
	mm	inch	inch	mm	inch	mm	inch	mm	
1C978-25-12	25 M36x2	3/4	3.12	79	0.10	3	46	1.36	35
1C978-30-16	30 M42x2	1	3.40	86	0.19	5	50	1.55	39
1C978-38-20	38 M52x2	1-1/4	3.98	101	0.23	6	60	1.59	40

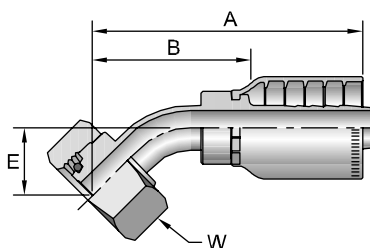


When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

## 10C78

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

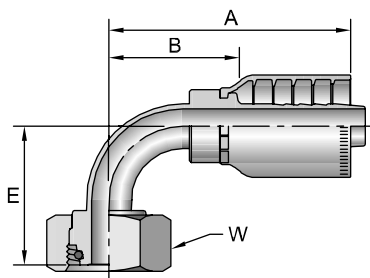
#									
Part Number	Thread	Hose I.D.	A	E	W	B			
	mm	inch	inch	mm	inch	mm	inch	mm	
10C78-25-12	25 M36x2	3/4	4.45	113	1.14	29	46	2.56	65
10C78-30-16	30 M42x2	1	5.16	131	1.34	34	50	3.19	81
10C78-38-20	38 M52x2	1-1/4	6.44	164	1.50	38	60	4.05	103



## 11C78

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

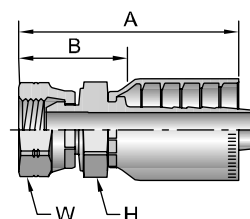
#									
Part Number	Thread	Hose I.D.	A	E	W	B			
	mm	inch	inch	mm	inch	mm	inch	mm	
11C78-25-12	25 M36x2	3/4	4.12	105	2.32	59	46	2.36	60
11C78-30-16	30 M42x2	1	4.71	120	2.68	68	50	2.86	73
11C78-38-20	38 M52x2	1-1/4	5.67	144	2.86	73	60	3.28	83



## 1GU78

**Female BSP Parallel Pipe - Swivel - (60° Cone)**

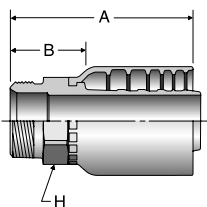
#									
Part Number	Thread	Hose I.D.	A	H	W	B			
	inch	inch	inch	mm	mm	mm	inch	mm	
1GU78-12-12	3/4x14	3/4	3.76	96	36	36	2.00	51	
1GU78-16-16	1x11	1	4.14	105	41	41	2.29	58	



Metric S: Mates with EO "S" Series Fittings. See Accessories Section for O-Rings and Flange Kits.

## 101S6

Male NPTF Pipe - Rigid

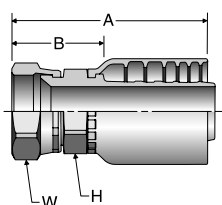


#							
Part Number	Thread	Hose I.D.	A		H	B	
	inch	inch	inch	mm	mm	inch	mm
101S6-32-32	2 x 11 1/2	2	5.88	149,5	2-1/2	2.44	61,9

101S6 is rated at 5,000 psi working pressure.

## 106S6

Female JIC 37° - Swivel



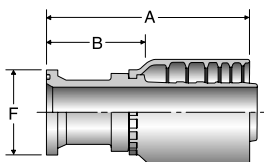
#							
Part Number	Thread	Hose I.D.	A		H	B	
	inch	inch	inch	mm	inch	inch	mm
106S6-32-32	2 1/2 x 12	2	6.52	165,7	2.5	3.08	78,2

106S6 is rated at 5,000 psi working pressure.

## 14AS6

SAE Code 61 Flange Head - 5,000 psi

ISO 12151-3-S-L (5,000 psi)

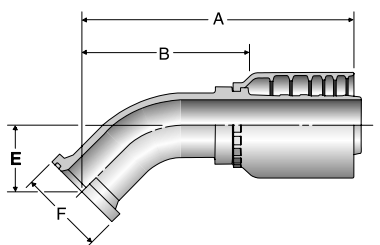


#			A		F	B		E	
Part Number	Flange	Hose I.D.	inch	mm	inch	inch	mm	inch	mm
	inch	inch							
14AS6-32-32	2	2	6.72	170,8	2-13/16	3.28	83,3	-	-

## 14FS6

SAE Code 61 Flange Head - 45° Elbow - 5,000 psi

ISO 12151-3-E-45S-L (1 Piece: ISO 12151-3-E45M-L) (5,000 psi)

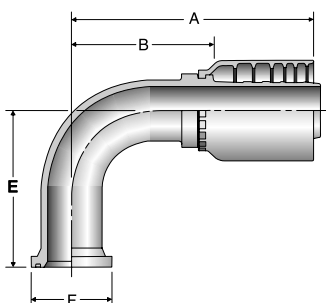


#			A		F	B		E	
Part Number	Flange	Hose I.D.	inch	mm	inch	inch	mm	inch	mm
	inch	inch							
14FS6-32-32	2	2	8.70	221,1	2-13/16	5.26	133,6	2.205	56,0

## 14NS6

SAE Code 61 Flange Head - 90° Elbow - 5,000 psi

ISO 12151-3-E-90S-L (1 Piece: ISO 12151-3-E90M-L) (5,000 psi)





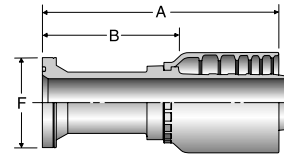
#			A		F	B		E	
Part Number	Flange	Hose I.D.	inch	mm	inch	inch	mm	inch	mm
	inch	inch							
14NS6-32-32	2	2	8.41	213,7	2-13/16	4.97	126,2	5.433	138,0

## 16AS6

SAE Code 62 Flange Head

ISO 12151-3-S-S



#			A		F	B		E	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm	inch	mm
16AS6-32-32	2	2	8.21	208,6	3-1/8	4.77	121,1	-	-

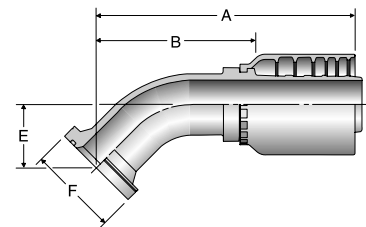


## 16FS6

SAE Code 62 Flange Head - 45° Elbow

ISO 12151-3-E45S-S (1 Piece: ISO 1251-3-E45-M-S)



#			A		F	B		E	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm	inch	mm
16FS6-32-32	2	2	8.70	221,1	3-1/8	5.26	133,6	2.205	56,0

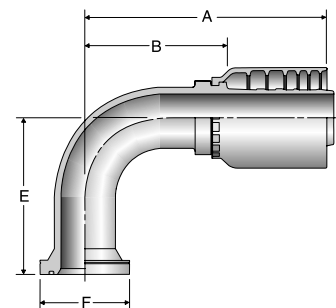


## 16NS6

SAE Code 62 Flange Head - 90° Elbow



ISO 12151-3-E90S-S (1 Piece: ISO 1251-3-E90M-S)

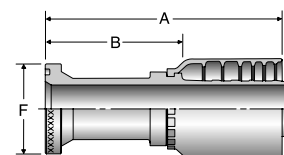
#			A		F	B		E	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm	inch	mm
16NS6-32-32	2	2	8.41	213,7	3-1/8	4.97	126,2	5.43	138,0



## 1XAS6

Caterpillar® Flange Head





#			A		F	B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	inch	mm
1XAS6-32-32	2	2	8.21	208,6	3-1/8	4.77	121

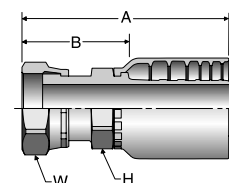


## 1JSS6

Female Seal-Lok - Swivel - Long

ISO 12151-1-SWSB

#			A				B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	mm
1JSS6-32-32	2-1/2X12	2	6.46	164,2	2.5	2-7/8	3.02	76,7



A


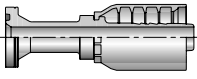
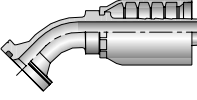
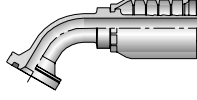
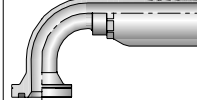

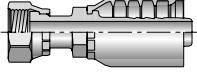
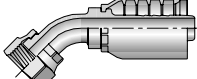
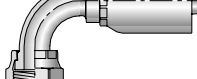

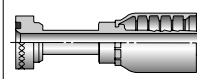
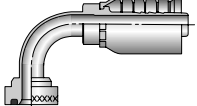
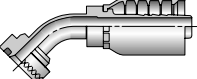
B

C

D

E



 Code 62 Flange	16A79 B-122  Flange	16F79 B-122  45° Elbow	16G79 B-122  60° Elbow	16N79 B-123  90° Elbow	 Seal-Lok® (O-Ring Face Seal)
	1JS79 B-123  Female - Swivel Long	1J779 B-123  Female - Swivel 45° Elbow	1J979 B-124  Female - Swivel 90° Elbow - Short	 Flange Head	1XA79 B-124  Flange Head
1XN79 B-124  90° Elbow				1XF79 B-124  45° Elbow	

A

B

C

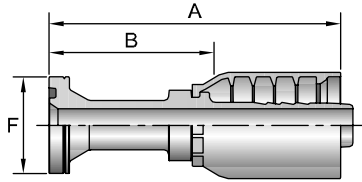
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E

## 16A79

### SAE Code 62 Flange Head

ISO 12151-3 - S - S

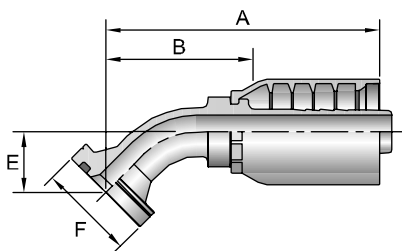


#			A		F		B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	mm
16A79-12-12	3/4	3/4	4.90	124	1-5/8	2.84	72	
16A79-16-12	1	3/4	3.88	99	1-7/8	1.82	46	
16A79-16-16	1	1	5.48	139	1-7/8	3.31	84	
16A79-20-16	1-1/4	1	4.28	109	2-1/8	2.11	54	
16A79-20-20	1-1/4	1-1/4	6.09	155	2-1/8	3.41	87	
16A79-24-24	1-1/2	1-1/2	7.11	181	1-1/2	4.07	103	

## 16F79

### SAE Code 62 Flange Head - 45° Elbow

ISO 12151-3 - E45S - S (1 Piece: ISO 12151-3 - E45M - S)

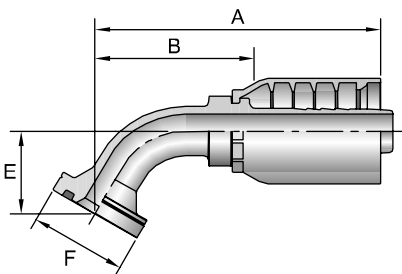


#			A		E		F		B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	mm	inch	mm
16F79-12-12	3/4	3/4	4.61	117	1.02	26	1-5/8	2.55	65	
16F79-16-16	1	1	5.33	135	1.26	32	1-7/8	3.16	80	
16F79-16-20	1	1-1/4	6.25	159	1.50	38	1-7/8	3.57	91	
16F79-20-16	1-1/4	1	5.33	135	1.26	32	2-1/8	3.16	80	
16F79-20-20	1-1/4	1-1/4	6.77	172	1.50	38	2-1/8	4.09	104	
16F79-24-24	1-1/2	1-1/2	7.96	202	1.73	44	2-1/2	4.07	103	

## 16G79

### SAE Code 62 Flange Head - 60° Elbow

ISO 12151-3 - E60S - S (1 Piece: ISO 12151-3 - E60M - S)





#			A		E		F		B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	mm	inch	mm
16G79-16-16	1	1	6.18	157	1.73	44	1-7/8	4.01	102	

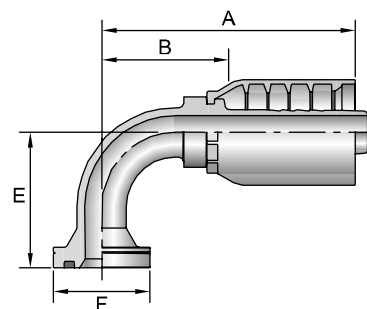
See Accessories Section for O-Rings and Flange Kits.

## 16N79

### SAE Code 62 Flange Head - 90° Elbow

ISO 12151-3 - E90S - S (1 Piece: ISO 12151-3 - E90M - S)





# Part Number	 Flange inch	 Hose I.D. inch	A		E		F		B	
			inch	mm	inch	mm	inch	mm	inch	mm
16N79-12-12	3/4	3/4	4.27	108	2.28	58	1-5/8	2.21	56	
16N79-16-12	1	3/4	4.27	108	2.28	58	1-7/8	2.21	56	
16N79-16-16	1	1	4.95	126	2.76	70	1-7/8	2.78	71	
16N79-20-16	1-1/4	1	4.95	126	2.76	70	2-1/8	2.78	71	
16N79-20-20	1-1/4	1-1/4	6.31	160	3.54	90	2-1/8	3.63	92	
16N79-24-24	1-1/2	1-1/2	7.50	190	4.09	104	2-1/2	4.46	113	

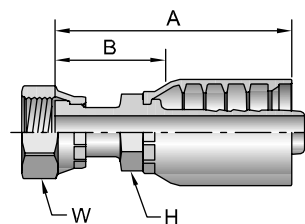


## 1JS79

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

# Part Number	 Thread inch		 Hose I.D. inch	A		 H	 W	B	
	inch			inch	mm	inch	inch	inch	mm
1JS79-12-12	3/4	1-3/16x12	3/4	3.99	101	1-1/8	1-3/8	1.93	49
1JS79-16-12	1	1-7/16x12	3/4	4.26	108	1-3/8	1-5/8	2.20	56
1JS79-16-16	1	1-7/16x12	1	4.45	113	1-3/8	1-5/8	2.28	58
1JS79-20-16	1-1/4	1-11/16x12	1	4.32	110	1-3/4	1-7/8	2.15	55
1JS79-20-20	1-1/4	1-11/16x12	1-1/4	5.00	127	1-3/4	1-7/8	2.32	59
1JS79-24-24	1-1/2	2x12	1-1/2	5.28	134	2	2-1/4	2.24	57






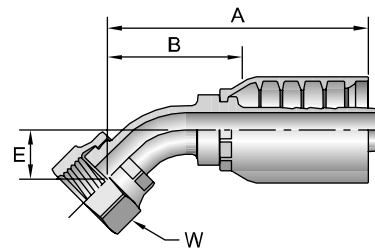
⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43.

## 1J779

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45

# Part Number	 Thread inch		 Hose I.D. inch	A		E		 W	B	
	inch			inch	mm	inch	mm	inch	inch	mm
1J779-12-12	3/4	1-3/16x12	3/4	4.40	112	0.83	21	1-3/8	2.34	59
1J779-16-16	1	1-7/16x12	1	5.01	127	0.94	24	1-5/8	2.84	72
1J779-20-20	1-1/4	1-11/16x12	1-1/4	6.15	156	1.00	25	1-7/8	3.49	89

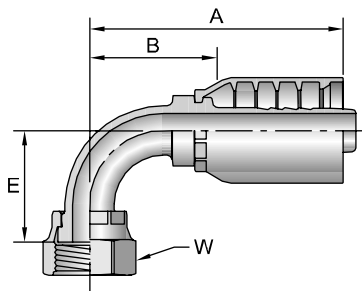


⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43.

See Accessories Section for O-Rings and Flange Kits.

## 1J979

**Female Seal-Lok® - Swivel - 90° Elbow - Short Drop**  
ISO - 12151-1 - SWES90

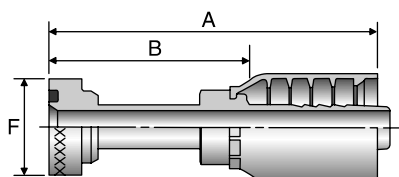


#											
Part Number	Thread		Hose I.D.	A	E	W	B				
1J979-12-12	3/4	1-3/16x12	3/4	4.27	108	1.88	48	1-3/8	2.21	56	
1J979-16-16	1	1-7/16x12	1	4.95	126	2.21	56	1-5/8	2.78	71	
1J979-20-20	1-1/4	1-11/16x12	1-1/4	6.20	157	2.52	64	1-7/8	3.52	89	

⚠ Refer to Pressure Rating of Hose End Connections chart on page E-43

## 1XA79

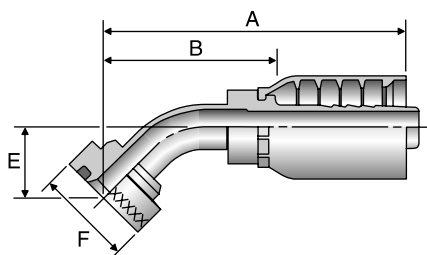
**Caterpillar® Flange Head**



#											
Part Number	Flange		Hose I.D.	A	F	B					
1XA79-12-12	3/4		3/4	4.89	124	1-5/8	2.83	72			
1XA79-16-16	1		1	5.75	146	1-7/8	3.59	91			
1XA79-20-16	1-1/4		1	4.32	110	2-1/8	2.15	55			
1XA79-20-20	1-1/4		1-1/4	6.25	159	2-1/8	3.57	91			
1XA79-24-24	1-1/2		1-1/2	7.17	182	2-1/2	4.13	105			

## 1XF79

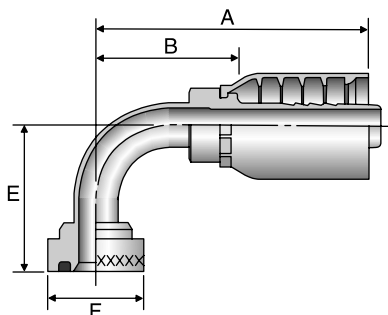
**Caterpillar® Flange Head - 45° Elbow**



#											
Part Number	Flange		Hose I.D.	A	E	F	B				
1XF79-12-12	3/4		3/4	4.80	122	1.22	31	1-5/8	2.74	70	
1XF79-16-16	1		1	5.49	139	1.42	36	1-7/8	3.32	84	
1XF79-20-16	1-1/4		1	5.49	139	1.42	36	2-1/8	3.32	84	
1XF79-20-20	1-1/4		1-1/4	6.72	171	1.44	37	2-1/8	4.04	103	

## 1XN79

**Caterpillar® Flange Head - 90° Elbow**



#											
Part Number	Flange		Hose I.D.	A	E	F	B				
1XN79-12-12	3/4		3/4	4.27	108	2.48	63	1-5/8	2.21	56	
1XN79-16-16	1		1	4.94	125	2.91	74	1-7/8	2.78	71	
1XN79-20-16	1-1/4		1	4.94	125	2.91	74	2-1/8	2.78	71	
1XN79-20-20	1-1/4		1-1/4	6.31	160	3.70	94	2-1/8	3.63	92	
1XN79-24-24	1-1/2		1-1/2	7.50	191	4.16	106	2-1/2	4.46	113	

See Accessories Section for O-Rings and Flange Kits.

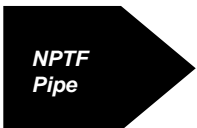
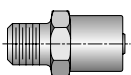
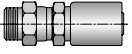
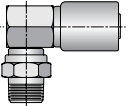


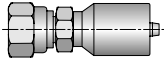
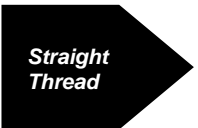
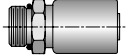
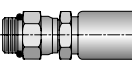
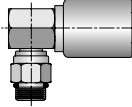

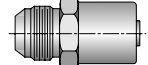
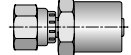

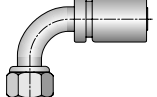
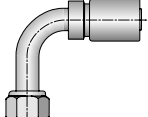
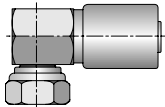

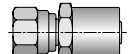
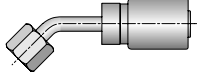
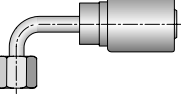





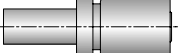


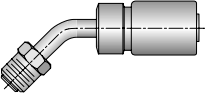
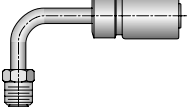


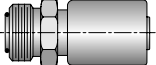

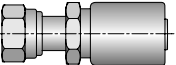
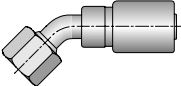
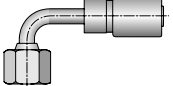
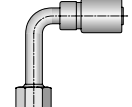





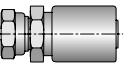

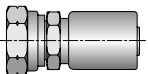
A

B

C

D

E

A	 <b>NPTF Pipe</b>	101HY B-127  <i>Male - Rigid</i>	113HY B-127  <i>Male - Swivel</i>	11LHY B-128  <i>Male - Swivel 90° Elbow</i>	102HY B-128  <i>Female - Rigid</i>	 <b>NPSM Pipe</b>
	107HY B-128  <i>Female - Swivel (60° Cone)</i>	 <b>Straight Thread</b>	105HY B-129  <i>Male - Rigid</i>	10GHY B-129  <i>Male - Swivel</i>	10LHY B-130  <i>Swivel - Swivel 90° Elbow</i>	 <b>JIC 37°</b>
B	103HY B-130  <i>Male - Rigid</i>	106HY B-131  <i>Female - Swivel</i>	137HY B-132  <i>Female - Swivel 45° Elbow - Short</i>	139HY B-132  <i>Female - Swivel 90° Elbow - Short</i>	141HY B-133  <i>Female - Swivel 90° Elbow - Long</i>	193HY B-133  <i>Female - Swivel 90° Elbow - Block</i>
	 <b>SAE 45°</b>	108HY B-133  <i>Female - Swivel</i>	177HY B-134  <i>Female - Swivel 45° Elbow</i>	179HY B-134  <i>Female - Swivel 90° Elbow</i>	 <b>Flareless</b>	111HY B-134  <i>Male - Rigid</i>
C	 <b>Grease Connection</b>	1GJHY B-134  <i>Female - Rigid</i>	 <b>Standpipe</b>	134HY B-135  <i>Male Standpipe Rigid</i>	 <b>Inverted Flare</b>	128HY B-135  <i>Male - Swivel</i>
	167HY B-135  <i>Male - Swivel 45° Elbow</i>	169HY B-136  <i>Male - Swivel 90° Elbow</i>	129HY B-136  <i>Female - Rigid</i>	 <b>Seal-Lok® (O-Ring Face Seal)</b>	1J0HY B-136  <i>Male - Rigid w/O-Ring</i>	1JCHY B-136  <i>Female - Swivel Short</i>
D	1JSHY B-137  <i>Female - Swivel Long</i>	1J7HY B-137  <i>Female - Swivel 45° Elbow</i>	1J9HY B-138  <i>Female - Swivel 90° Elbow - Short</i>	1J1HY B-138  <i>Female - Swivel 90° Elbow - Long</i>	 <b>Metric L &amp; S</b>	1D0HY B-139  <i>Male - Rigid</i>
	13DHY B-139  <i>Male Standpipe Rigid</i>	 <b>BSP</b>	1D9HY B-139  <i>Male - Rigid</i>	1GUHY B-140  <i>Female - Swivel</i>	1UTHY B-140  <i>Male - Rigid</i>	1XUHY B-140  <i>Female - Metric Swivel</i>
E						

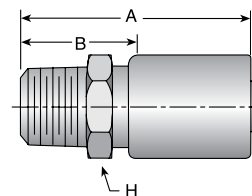


## 101HY

### Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A		H inch	B		Additional Material Stainless Steel (C303)
			inch	mm		inch	mm	
101HY-2-4	1/8x27	1/4	2.34	59	5/8	1.00	25	
101HY-4-4	1/4x18	1/4	2.53	64	9/16	1.19	30	
101HY-4-5	1/4x18	5/16	2.56	65	11/16	1.22	31	
101HY-4-6	1/4x18	3/8	2.55	65	11/16	1.19	30	
101HY-6-4	3/8x18	1/4	2.53	64	3/4	1.19	30	
101HY-6-5	3/8x18	5/16	2.56	65	3/4	1.22	31	
101HY-6-6	3/8x18	3/8	2.55	65	3/4	1.19	30	•
101HY-6-8	3/8x18	1/2	2.72	69	7/8	1.38	35	
101HY-8-4	1/2x14	1/4	2.72	69	7/8	1.38	35	
101HY-8-6	1/2x14	3/8	2.73	69	7/8	1.38	35	
101HY-8-7	1/2x14	13/32	2.73	69	7/8	1.38	35	
101HY-8-8	1/2x14	1/2	2.91	74	7/8	1.41	40	•
101HY-8-10	1/2x14	5/8	2.94	75	1-1/8	1.59	40	
101HY-8-12	1/2x14	3/4	3.08	78	1-1/4	1.50	38	
101HY-12-8	3/4x14	1/2	2.91	74	1-1/16	1.56	40	
101HY-12-10	3/4x14	5/8	2.98	76	1-1/8	1.59	40	
101HY-12-12	3/4x14	3/4	3.08	78	1-1/4	1.50	38	•
101HY-12-16	3/4x14	1	3.23	82	1-3/8	1.63	41	
101HY-16-12	1x11-1/2	3/4	3.27	83	1-3/8	1.69	43	
101HY-16-14	1x11-1/2	7/8	3.27	83	1-3/8	1.78	43	
101HY-16-16	1x11-1/2	1	3.42	87	1-3/8	1.81	46	•
101HY-20-20	1-1/4x11-1/2	1-1/4	3.84	98	1-3/4	2.00	51	

Stainless steel fittings must be assembled with Karrykrimp 2, Phastkrimp, Superkrimp or Parkrimp 2. See CrimpSource for more information.

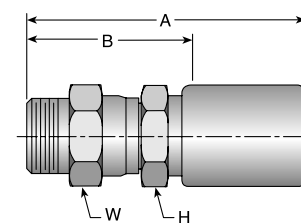


## 113HY

### Male NPTF Pipe - Swivel

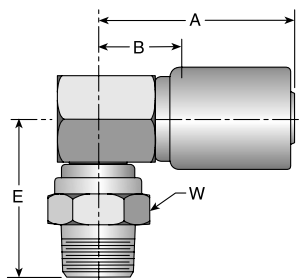
# Part Number	Thread inch	Hose I.D. inch	A		H inch	W inch	B	
			inch	mm			inch	mm
113HY-2-4	1/8x27	1/4	2.97	75	9/16	5/8	1.63	41
113HY-4-4	1/4x18	1/4	3.06	78	9/16	5/8	1.72	44
113HY-4-6	1/4x18	3/8	3.17	81	11/16	11/16	1.81	46
113HY-6-4	3/8x18	1/4	3.13	80	5/8	11/16	1.78	45
113HY-6-6	3/8x18	3/8	3.11	79	11/16	11/16	1.75	44
113HY-6-8	3/8x18	1/2	3.31	84	7/8	7/8	1.97	50
113HY-8-6	1/2x14	3/8	3.38	86	7/8	7/8	2.03	52
113HY-8-8	1/2x14	1/2	3.50	89	7/8	7/8	2.16	55
113HY-12-12	3/4x14	3/4	3.95	100	1-1/4	1-1/4	2.38	60
113HY-16-16	1x11-1/2	1	4.23	107	1-1/2	1-1/2	2.63	67

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous swiveling. See Technical Section for Pressure Limitations.



## 11LHY

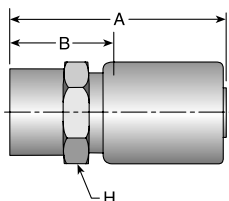
### Male NPTF Pipe - Swivel - 90° Elbow



#			A		E		B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	mm
11LHY-2-4	1/8x27	1/4	2.31	59	1.50	38	5/8	0.97 25
11LHY-4-4	1/4x18	1/4	2.31	59	1.69	43	11/16	0.97 25
11LHY-4-6	1/4x18	3/8	2.33	59	1.69	43	11/16	0.97 25
11LHY-6-4	3/8x18	1/4	2.31	59	1.63	41	11/16	0.97 25
11LHY-6-6	3/8x8	3/8	2.33	59	1.63	41	11/16	0.97 25
11LHY-8-6	1/2x14	3/8	2.73	69	1.88	48	7/8	0.97 25
11LHY-8-8	1/2x14	1/2	3.00	76	1.93	49	7/8	1.09 28

## 102HY

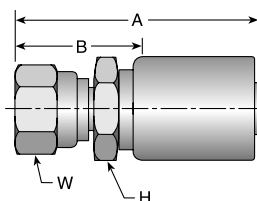
### Female NPTF Pipe - Rigid



#			A			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	H inch	inch	mm
102HY-2-4	1/8x27	1/4	2.34	59	5/8	1.00	25
102HY-4-4	1/4x18	1/4	2.47	63	11/16	1.13	29
102HY-4-6	1/4x18	3/8	2.48	63	11/16	1.13	29
102HY-6-4	3/8x18	1/4	2.47	63	7/8	1.13	29
102HY-6-6	3/8x18	3/8	2.48	63	7/8	1.13	29
102HY-8-6	1/2x14	3/8	2.75	70	1	1.41	36
102HY-8-8	1/2x14	1/2	2.84	72	1	1.50	38
102HY-12-12	3/4x14	3/4	2.83	72	1-1/4	1.25	32
102HY-16-16	1x11-1/2	1	3.27	83	1-1/2	1.66	42

## 107HY

### Female NPSM Pipe - Swivel - (60° Cone)

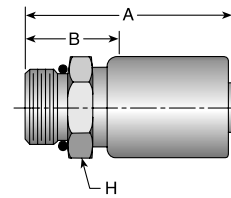


#			A				B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	H inch	W inch	inch	mm
107HY-4-4	1/4x18	1/4	2.66	68	9/16	11/16	1.31	33
107HY-6-4	3/8x18	1/4	2.72	69	3/4	7/8	1.38	35
107HY-6-6	3/8x18	3/8	2.55	65	3/4	7/8	1.19	30
107HY-8-8	1/2x14	1/2	2.91	74	1	1	1.56	40
107HY-12-8	3/4x14	1/2	3.05	77	1-1/4	1-1/4	1.69	43
107HY-12-12	3/4x14	3/4	3.22	82	1-1/4	1-1/4	1.66	42
107HY-16-16	1x11-1/2	1	3.39	86	1-3/8	1-1/2	1.78	45

## 105HY

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

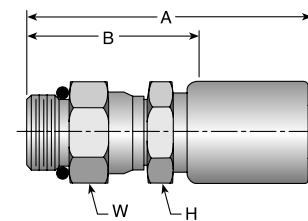
# Part Number	Thread inch	Hose I.D. inch	A		H inch	B	
			inch	mm		inch	mm
105HY-4-4	7/16x20	1/4	2.33	59	9/16	0.97	25
105HY-5-4	1/2x20	1/4	2.33	59	5/8	0.97	25
105HY-6-4	9/16x18	1/4	2.42	61	11/16	1.06	27
105HY-6-6	9/16x18	3/8	2.38	60	11/16	1.03	26
105HY-8-6	3/4x16	3/8	2.42	61	7/8	1.06	27
105HY-8-8	3/4x16	1/2	2.59	66	7/8	1.25	32
105HY-10-6	7/8x14	3/8	2.55	65	1	1.19	30
105HY-10-8	7/8x14	1/2	2.66	68	1	1.31	33
105HY-10-10	7/8x14	5/8	2.80	71	1-1/8	1.41	36
105HY-12-8	1-1/16x12	1/2	2.81	71	1-1/4	1.47	37
105HY-12-10	1-1/16x12	5/8	2.83	72	1-1/4	1.44	37
105HY-12-12	1-1/16x12	3/4	2.92	74	1-1/4	1.34	34
105HY-16-12	1-5/16x12	3/4	2.92	74	1-1/2	1.34	34
105HY-16-16	1-5/16x12	1	3.08	78	1-1/2	1.47	37



## 10GHY

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

# Part Number	Thread inch	Hose I.D. inch	A		H inch	W inch	B	
			inch	mm			inch	mm
10GHY-4-4	7/16x20	1/4	3.00	76	9/16	5/8	1.66	42
10GHY-5-4	1/2x20	1/4	3.00	76	9/16	5/8	1.66	42
10GHY-6-4	9/16x18	1/4	3.16	80	5/8	11/16	1.81	46
10GHY-6-6	9/16x18	3/8	3.14	80	11/16	11/16	1.78	45
10GHY-8-6	3/4x16	3/8	3.24	82	13/16	7/8	1.88	48
10GHY-8-8	3/4x16	1/2	3.36	85	7/8	7/8	2.00	51
10GHY-10-8	7/8x14	1/2	3.44	87	1	1	2.09	53
10GHY-12-8	1-1/16x12	1/2	3.66	93	1-1/4	1-1/4	2.31	59
10GHY-12-12	1-1/16x12	3/4	3.89	99	1-1/4	1-1/4	2.31	59
10GHY-16-16	1-5/16x12	1	3.95	100	1-3/8	1-1/2	2.34	59

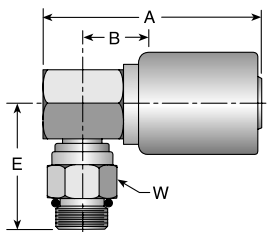


Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on extensive or continuous swiveling.

O-Ring not compatible with Phosphate Ester fluids.

## 10LHY

### Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow

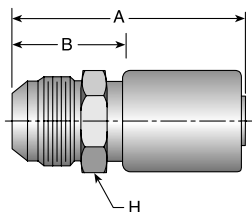


# Part Number	Thread inch	Hose I.D. inch	A		E		W inch	B	
			inch	mm	inch	mm		inch	mm
10LHY-4-4	7/16x20	1/4	2.31	59	1.63	41	11/16	0.97	25
10LHY-6-4	9/16x18	1/4	2.31	59	1.66	42	7/8	0.97	25
10LHY-6-6	9/16x18	3/8	2.33	59	1.66	42	11/16	0.97	25
10LHY-8-4	3/4x16	1/4	2.31	59	1.75	44	7/8	0.94	24
10LHY-8-6	3/4x16	3/8	2.33	59	1.73	44	7/8	0.97	25
10LHY-8-8	3/4x16	1/2	3.00	76	1.80	46	7/8	1.09	28
10LHY-10-8	7/8x14	1/2	3.00	76	1.88	48	1	1.09	28
10LHY-12-12	1-1/16x12	3/4	2.77	70	2.23	57	1-1/4	1.19	30

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on extensive or continuous swiveling.

## 103HY

### Male JIC 37° - Rigid

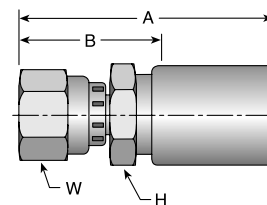


# Part Number	Thread inch	Hose I.D. inch	A		H inch	B	
			inch	mm		inch	mm
103HY-4-4	7/16x20	1/4	2.52	64	5/8	1.19	30
103HY-5-4	1/2x20	1/4	2.52	64	5/8	1.19	30
103HY-6-4	9/16x18	1/4	2.53	64	11/16	1.19	30
103HY-6-5	9/16x18	5/16	2.56	65	11/16	1.22	31
103HY-6-6	9/16x18	3/8	2.54	65	11/16	1.19	30
103HY-6-8	9/16x18	1/2	2.72	69	7/8	1.38	35
103HY-8-6	3/4x16	3/8	2.64	67	13/16	1.28	33
103HY-8-8	3/4x16	1/2	2.81	71	7/8	1.47	37
103HY-10-6	7/8x14	3/8	2.81	71	1	1.47	37
103HY-10-8	7/8x14	1/2	2.91	74	1	1.56	40
103HY-10-10	7/8x14	5/8	2.98	76	1-1/8	1.59	40
103HY-10-12	7/8x14	3/4	3.08	78	1-1/4	1.50	38
103HY-12-8	1-1/16x12	1/2	3.02	77	1-1/8	1.66	42
103HY-12-10	1-1/16x12	5/8	3.09	78	1-1/8	1.72	44
103HY-12-12	1-1/16x12	3/4	3.19	81	1-1/4	1.63	41
103HY-14-12	1-3/16x12	3/4	3.19	81	1-1/4	1.63	41
103HY-16-12	1-5/16x12	3/4	3.23	82	1-3/8	1.66	42
103HY-16-16	1-5/16x12	1	3.39	86	1-3/8	1.78	45
103HY-20-16	1-5/8x12	1	3.44	87	1-3/4	1.81	46
103HY-20-20	1-5/8x12	1-1/4	3.83	97	1-3/4	2.00	51

# 106HY

## Female JIC 37° - Swivel

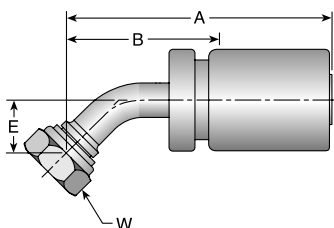
#			A		H	W	B		Additional Material Stainless Steel (C303)
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	mm	
106HY-3-4	3/8x24	1/4	2.58	66	9/16	1/2	1.22	31	•
106HY-4-4	7/16x20	1/4	2.60	66	9/16	9/16	1.25	32	
106HY-4-6	7/16x20	3/8	2.67	68	3/4	9/16	1.31	33	
106HY-5-4	1/2x20	1/4	2.65	67	9/16	5/8	1.31	33	
106HY-5-5	1/2x20	5/16	2.69	68	5/8	5/8	1.34	34	
106HY-5-6	1/2x20	3/8	2.73	69	3/4	5/8	1.38	35	
106HY-6-4	9/16x18	1/4	2.67	68	9/16	11/16	1.31	33	•
106HY-6-5	9/16x18	5/16	2.70	69	5/8	11/16	1.34	34	
106HY-6-6	9/16x18	3/8	2.69	68	11/16	11/16	1.34	34	
106HY-8-6	3/4x16	3/8	2.72	69	7/8	7/8	1.38	35	•
106HY-8-8	3/4x16	1/2	2.90	74	7/8	7/8	1.41	40	
106HY-8-10	3/4x16	5/8	2.98	76	1-1/8	7/8	1.59	40	
106HY-8-12	3/4x16	3/4	3.08	78	1-1/4	7/8	1.53	39	
106HY-10-6	7/8x14	3/8	2.81	71	7/8	1	1.47	37	
106HY-10-8	7/8x14	1/2	2.98	76	1	1	1.63	41	
106HY-10-10	7/8x14	5/8	3.06	78	1-1/8	1	1.69	43	
106HY-10-12	7/8x14	3/4	3.16	80	1-1/4	1	1.59	40	
106HY-12-6	1-1/16x12	3/8	3.00	76	1-1/8	1-1/4	1.66	42	
106HY-12-8	1-1/16x12	1/2	3.05	77	1-1/8	1-1/4	1.69	43	•
106HY-12-10	1-1/16x12	5/8	3.12	79	1-1/8	1-1/4	1.75	44	
106HY-12-12	1-1/16x12	3/4	3.22	82	1-1/4	1-1/4	1.66	42	
106HY-12-16	1-1/16x12	1	3.38	86	1-3/8	1-1/4	1.75	44	
106HY-14-12	1-3/16x12	3/4	3.23	82	1-1/4	1 3/8	1.66	42	
106HY-16-12	1-5/16x12	3/4	3.30	84	1-3/8	1-1/2	1.72	44	
106HY-16-14	1-5/16x12	7/8	3.30	84	1-3/8	1-1/2	1.72	44	•
106HY-16-16	1-5/16x12	1	3.45	88	1-3/8	1-1/2	1.84	47	
106HY-16-20	1-5/16x12	1-1/4	3.84	98	1-3/4	1-1/2	2.00	51	
106HY-20-16	1-5/8x12	1	3.70	94	1-3/4	2	2.09	53	
106HY-20-20	1-5/8x12	1-1/4	4.09	104	2	2	2.25	57	



Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2. See CrimpSource for more information.

## 137HY

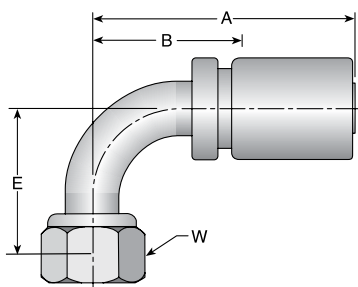
Female JIC 37° - Swivel - 45° Elbow - Short Drop



# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
137HY-4-4	7/16x20	1/4	2.59	66	0.39	10	9/16	1.32	34
137HY-5-4	1/2x20	1/4	3.27	83	0.36	9	5/8	1.91	49
137HY-6-4	9/16x18	1/4	2.70	69	0.43	10	3/4	1.43	36
137HY-6-5	9/16x18	5/16	3.34	85	0.39	11	11/16	2.00	51
137HY-6-6	9/16x18	3/8	2.72	69	0.43	11	11/16	1.44	37
137HY-8-6	3/4x16	3/8	2.88	73	0.58	15	7/8	1.60	41
137HY-8-8	3/4x16	1/2	3.10	79	0.59	15	7/8	1.81	46
137HY-10-8	7/8x14	1/2	3.20	81	0.63	16	1	1.91	49
137HY-10-10	7/8x14	5/8	3.29	84	0.63	16	1	1.93	49
137HY-12-10	1-1/16x12	5/8	3.94	100	0.77	20	1-1/8	2.56	65
137HY-12-12	1-1/16x12	3/4	3.82	97	0.83	21	1-1/4	2.29	58
137HY-16-12	1-5/16x12	3/4	4.35	110	0.89	23	1-1/2	2.78	71
137HY-16-16	1-5/16x12	1	4.31	109	0.89	23	1-1/2	2.69	68

## 139HY

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



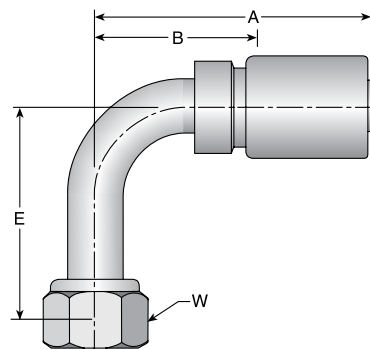
# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
139HY-4-4	7/16x20	1/4	2.40	61	0.83	21	9/16	1.13	29
139HY-5-4	1/2x20	1/4	2.50	64	0.83	21	5/8	1.23	31
139HY-6-4	9/16x18	1/4	2.65	67	0.91	23	3/4	1.38	35
139HY-6-5	9/16x18	5/16	3.25	83	0.86	22	11/16	1.91	49
139HY-6-6	9/16x18	3/8	2.57	65	0.91	23	11/16	1.29	33
139HY-6-8	9/16x18	1/2	3.41	87	0.86	22	11/16	2.06	52
139HY-8-6	3/4x16	3/8	2.64	67	1.14	29	7/8	1.37	35
139HY-8-8	3/4x16	1/2	2.85	72	1.14	29	7/8	1.56	40
139HY-10-8	7/8x14	1/2	3.01	76	1.26	32	1	1.72	44
139HY-10-10	7/8x14	5/8	3.09	78	1.26	32	1	1.73	44
139HY-10-12	7/8x14	3/4	3.25	83	1.23	31	1	1.69	43
139HY-12-8	1-1/16x12	1/2	3.61	92	1.83	46	1-1/4	2.25	57
139HY-12-10	1-1/16x12	5/8	3.61	92	1.89	48	1-1/4	2.25	57
139HY-12-12	1-1/16x12	3/4	3.68	93	1.89	48	1-1/4	2.15	55
139HY-16-12	1-5/16x12	3/4	4.33	110	2.14	54	1-1/2	2.78	71
139HY-16-16	1-5/16x12	1	4.31	109	2.31	59	1-1/2	2.69	68



## 141HY

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

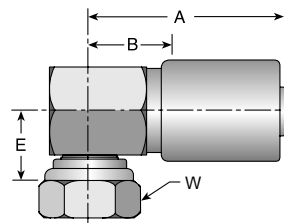
# Part Number	Thread inch	Hose I.D. inch	A		E		W inch	B	
			inch	mm	inch	mm		inch	mm
141HY-4-4	7/16x20	1/4	2.68	68	1.81	46	9/16	1.41	36
141HY-5-4	1/2x20	1/4	3.16	80	1.77	45	5/8	1.81	46
141HY-6-4	9/16x18	1/4	2.89	73	2.13	54	11/16	1.62	41
141HY-6-6	9/16x18	3/8	2.76	70	2.13	54	11/16	1.49	39
141HY-8-6	3/4x16	3/8	2.85	72	2.52	64	7/8	1.58	40
141HY-8-8	3/4x16	1/2	2.89	73	2.52	64	7/8	1.60	41
141HY-10-8	7/8x14	1/2	3.01	76	2.76	70	1	1.72	44
141HY-12-12	1-1/16x12	3/4	3.59	91	3.73	95	1-1/4	2.03	52
141HY-16-16	1-5/16x12	1	4.56	116	4.33	110	1-1/2	2.94	75



## 193HY

Female JIC 37° - Swivel - 90° Elbow - (Block Type)

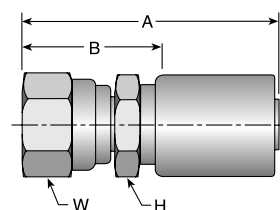
# Part Number	Thread inch	Hose I.D. inch	A		E		W inch	B	
			inch	mm	inch	mm		inch	mm
193HY-6-6	9/16x18	3/8	2.33	59	0.78	20	11/16	0.97	25
193HY-8-6	3/4x16	3/8	2.33	59	0.82	21	7/8	0.97	25
193HY-8-8	3/4x16	1/2	3.00	76	0.85	22	7/8	1.09	28
193HY-12-12	1-1/16x12	3/4	3.33	85	0.99	25	1-1/4	1.19	30



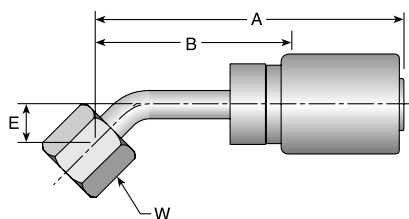
## 108HY

Female SAE 45° - Swivel

# Part Number	Thread inch	Hose I.D. inch	A		H inch	W inch	B	
			inch	mm			inch	mm
108HY-4-4	7/16x20	1/4	2.60	66	9/16	9/16	1.26	32
108HY-5-4	1/2x20	1/4	2.66	68	9/16	5/8	1.31	33
108HY-5-5	1/2x20	5/16	2.68	68	5/8	5/8	1.34	34
108HY-6-4	5/8x18	1/4	2.73	69	11/16	3/4	1.38	35
108HY-6-5	5/8x18	5/16	2.76	70	5/8	3/4	1.41	36
108HY-6-6	5/8x18	3/8	2.75	70	11/16	3/4	1.41	36
108HY-8-6	3/4x16	3/8	2.73	69	13/16	7/8	1.38	35
108HY-8-8	3/4x16	1/2	2.90	74	7/8	7/8	1.56	40
108HY-8-12	3/4x16	3/4	3.17	81	1-1/4	7/8	1.59	40
108HY-10-8	7/8x14	1/2	2.98	76	1	1	1.63	41
108HY-10-10	7/8x14	5/8	3.06	78	1-1/8	1	1.69	43
108HY-12-10	1-1/16x12	5/8	3.33	85	1-1/8	1-1/4	1.94	49
108HY-12-12	1-1/16x12	3/4	3.41	87	1-1/4	1-1/4	1.84	47



A

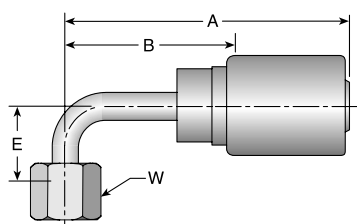


## 177HY

Female SAE 45° - Swivel - 45° Elbow

# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
177HY-6-6	5/8x18	3/8	3.33	85	0.39	10	3/4	1.97	50
177HY-12-12	1-1/16x14	3/4	4.03	102	0.77	20	1-1/4	2.44	62

B

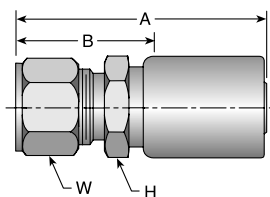


## 179HY

Female SAE 45° - Swivel - 90° Elbow

# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	inch	inch	mm
179HY-6-5	5/8x18	5/16	3.25	83	0.86	22	3/4	1.91	49
179HY-6-6	5/8x18	3/8	3.23	82	0.86	22	3/4	1.88	48
179HY-12-12	1-1/16x14	3/4	3.98	101	1.83	46	1-1/4	2.39	61

C



## 111HY

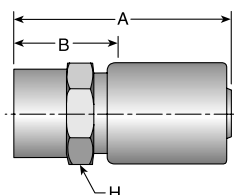
Male Ferulok Flareless - Rigid  
(24° Cone w/Nut and Ferrule)

# Part Number	Thread inch	Hose I.D. inch	A		H	W	B	
			inch	mm	inch	inch	inch	mm
111HY-4-4	7/16x20	1/4	2.42	61	9/16	9/16	1.06	27
111HY-4-6	7/16x20	3/8	2.44	62	3/4	9/16	1.09	28
111HY-5-6	1/2x20	3/8	2.44	62	3/4	5/8	1.09	28
111HY-6-4	9/16x18	1/4	2.44	62	5/8	11/16	1.09	28
111HY-6-6	9/16x18	3/8	2.45	62	11/16	11/16	1.09	28
111HY-8-6	3/4x16	3/8	2.61	66	7/8	7/8	1.25	32
111HY-8-8	3/4x16	1/2	2.72	69	7/8	7/8	1.38	35
111HY-10-8	7/8x14	1/2	2.78	71	1	1	1.44	37
111HY-12-12	1-1/16x12	3/4	3.02	77	1-1/4	1-1/4	1.44	37

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 the Technical Section.

D

E





## 1GJHY

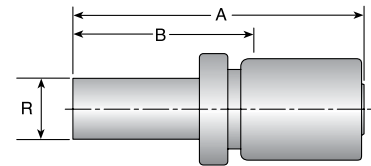
Female Grease Connection - SPL - PTF Taper  
Thread - Rigid - 1/2x27

# Part Number	Thread inch	Hose I.D. inch	A		H	B	
			inch	mm	inch	inch	mm
1GJHY-8-4	1/2x27	1/4	2.41	61	3/4	1.06	27

## 134HY




Male Standpipe - Rigid - (Inch Size Tube O.D.)

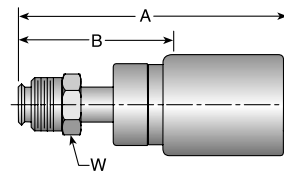
#			A		B	
Part Number	R inch	Hose I.D. inch	inch	mm	inch	mm
134HY-6-6	3/8	3/8	3.17	81	1.81	46
134HY-8-6	1/2	3/8	3.33	85	1.97	50
134HY-12-12	3/4	3/4	3.89	99	2.31	59



## 128HY




Male Inverted SAE 45° - Swivel

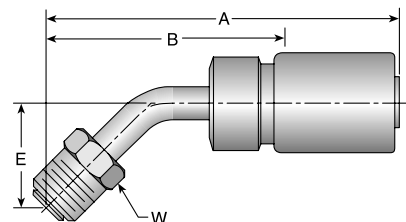
#			A			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	W inch	inch	mm
128HY-3-4	3/8x24	1/4	3.09	78	3/8	1.75	44
128HY-4-4	7/16x24	1/4	3.28	83	7/16	1.94	49
128HY-5-4	1/2x20	1/4	3.34	85	1/2	2.00	51
128HY-5-6	1/2x20	3/8	3.17	81	1/2	1.81	46
128HY-6-5	5/8x18	5/16	3.75	95	5/8	2.41	61
128HY-6-6	5/8x18	3/8	3.73	95	5/8	2.38	60
128HY-7-6	11/16x18	3/8	3.73	95	11/16	2.38	60
128HY-8-6	3/4x18	3/8	3.42	87	3/4	2.06	52
128HY-8-8	3/4x18	1/2	3.66	93	3/4	2.31	59



## 167HY

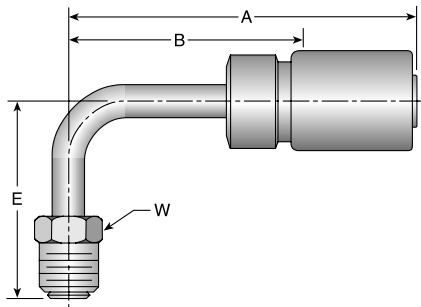
Male Inverted SAE 45° - Swivel - 45° Elbow

#			A		E			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	W inch	inch	mm
167HY-4-4	7/16x24	1/4	3.31	84	0.78	20	7/16	1.97	50
167HY-5-4	1/2x20	1/4	3.55	90	0.88	22	1/2	2.19	56
167HY-5-6	1/2x20	3/8	3.38	86	0.88	22	1/2	2.03	52
167HY-6-6	5/8x18	3/8	4.16	106	0.94	24	5/8	2.81	71
167HY-8-8	3/4x18	1/2	4.22	107	1.06	27	3/4	2.88	73



## 169HY

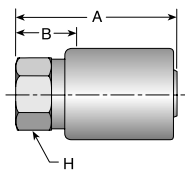
Male Inverted SAE 45° - Swivel - 90° Elbow



#			A		E		W	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
169HY-3-4	3/8x24	1/4	3.09	78	1.38	35	3/8	1.75	44
169HY-4-4	7/16x24	1/4	3.28	83	1.47	37	7/16	1.94	49
169HY-4-6	7/16x24	3/8	3.11	79	1.47	37	7/16	1.75	44
169HY-5-4	1/2x20	1/4	3.52	89	1.66	42	1/2	2.16	55
169HY-5-6	1/2x20	3/8	3.34	85	1.66	42	1/2	2.00	51
169HY-6-5	5/8x18	5/16	4.05	103	1.69	43	5/8	2.69	68
169HY-6-6	5/8x18	3/8	4.03	102	1.69	43	5/8	2.69	68
169HY-7-6	11/16x18	3/8	4.16	106	1.69	43	11/16	2.81	71
169HY-8-8	3/4x18	1/2	4.09	104	1.88	48	3/4	2.75	70

## 129HY

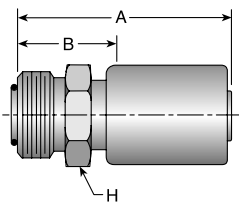
Female Inverted SAE 45° - Rigid



#			A		H	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm
129HY-5-4	1/2x20	1/4	2.25	57	5/8	0.91	23
129HY-6-6	5/8x18	3/8	2.25	57	7/8	0.91	23

## 1J0HY

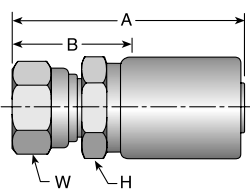
Male Seal-Lok® - Rigid - (with O-Ring)  
ISO 1215-1 - S



#			A		H	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm
1J0HY-4-4	9/16x18	1/4	2.36	60	5/8	1.00	25
1J0HY-6-6	11/16x16	3/8	2.49	63	3/4	1.13	29
1J0HY-8-8	13/16x16	1/2	2.69	68	7/8	1.34	34
1J0HY-12-8	1-3/16x12	1/2	2.91	74	1-1/4	1.56	40

## 1JCHY

Female Seal-Lok® - Swivel - Short  
ISO 12151-1 - SWSA



#			A		H	W	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	mm
1JCHY-4-4	9/16x18	1/4	2.61	66	9/16	11/16	0.94	24
1JCHY-6-6	11/16x16	3/8	2.69	68	11/16	13/16	0.94	24
1JCHY-8-8	13/16x16	1/2	2.91	74	7/8	15/16	1.13	29
1JCHY-12-12	1-3/16x12	3/4	3.31	84	1-1/4	1-3/8	1.13	29

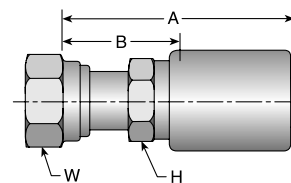
See Accessories Section for O-Rings.

## 1JSHY

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

# Part Number	Thread inch	Hose I.D. inch	A		H inch	W inch	B	
			inch	mm			inch	mm
1JSHY-4-4	9/16x18	1/4	2.59	66	9/16	11/16	1.25	32
1JSHY-6-4	11/16x16	1/4	2.67	68	5/8	13/16	1.31	33
1JSHY-6-5	11/16x16	5/16	2.70	69	5/8	13/16	1.34	34
1JSHY-6-6	11/16x16	3/8	2.75	70	11/16	13/16	1.34	34
1JSHY-8-6	13/16x16	3/8	2.84	72	7/8	15/16	1.50	38
1JSHY-8-8	13/16x16	1/2	2.95	75	7/8	15/16	1.59	40
1JSHY-10-8	1x14	1/2	3.16	80	15/16	1-1/8	1.81	46
1JSHY-10-10	1x14	5/8	3.17	81	1-1/8	1-1/8	1.78	45
1JSHY-10-12	1x14	3/4	3.27	83	1-1/4	1-1/8	1.69	43
1JSHY-12-10	1-3/16x12	5/8	3.20	81	1-1/8	1-3/8	1.81	46
1JSHY-12-12	1-3/16x12	3/4	3.30	84	1-1/4	1-3/8	1.72	44
1JSHY-16-12	1-7/16x12	3/4	3.44	87	1-3/8	1-5/8	1.88	48
1JSHY-16-16	1-7/16x12	1	3.59	91	1-3/8	1-5/8	1.97	50
1JSHY-20-16	1-11/16x12	1	3.47	88	1-5/8	1-7/8	1.75	59
1JSHY-20-20	1-11/16x12	1-1/4	3.98	101	1-3/4	1-7/8	2.16	55

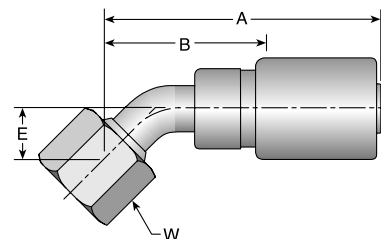


## 1J7HY

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45

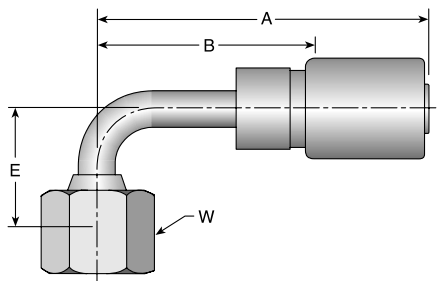
# Part Number	Thread inch	Hose I.D. inch	A		E		W inch	B	
			inch	mm	inch	mm		inch	mm
1J7HY-4-4	9/16x18	1/4	2.59	66	0.39	10	11/16	1.32	34
1J7HY-6-4	11/16x16	1/4	2.70	69	0.43	11	13/16	1.43	36
1J7HY-6-6	11/16x16	3/8	2.72	69	0.43	11	13/16	1.44	37
1J7HY-6-8	11/16x16	1/2	3.41	87	0.44	11	13/16	2.06	52
1J7HY-8-4	13/16x16	1/4	2.95	75	0.59	15	15/16	1.68	43
1J7HY-8-6	13/16x16	3/8	2.89	73	0.59	15	15/16	1.62	41
1J7HY-8-8	13/16x16	1/2	3.10	79	0.59	15	15/16	1.81	46
1J7HY-10-8	1x14	1/2	3.20	81	0.63	16	1-1/8	1.91	49
1J7HY-10-10	1x14	5/8	3.29	84	0.63	16	1-1/8	1.93	49
1J7HY-10-12	1x14	3/4	3.69	94	0.69	18	1-1/8	2.13	54
1J7HY-12-10	1-3/16x12	5/8	3.74	104	0.83	21	1-3/8	2.38	60
1J7HY-12-12	1-3/16x12	3/4	3.82	97	0.83	21	1-3/8	2.29	58
1J7HY-16-12	1-7/16x12	3/4	4.39	112	0.97	25	1-5/8	2.84	72
1J7HY-16-16	1-7/16x12	1	4.55	116	0.97	25	1-5/8	2.94	75



See Accessories Section for O-Rings.

## 1J9HY

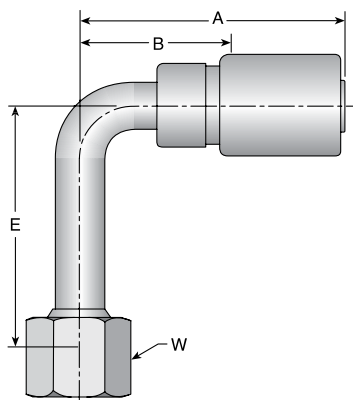
**Female Seal-Lok® - Swivel - 90° Elbow - Short Drop**  
ISO 12151-1 - SWES90



# Part Number	Thread inch	Hose I.D. inch	A		E		W		B	
			inch	mm	inch	mm	inch	mm	inch	mm
1J9HY-4-4	9/16x18	1/4	2.40	61	0.83	21	11/16	1.13	29	
1J9HY-4-6	9/16x18	3/8	3.08	78	0.83	21	11/16	1.72	44	
1J9HY-6-4	11/16x16	1/4	2.65	67	0.91	23	13/16	1.38	35	
1J9HY-6-5	11/16x16	5/16	3/14	80		23	13/16	1.72	44	
1J9HY-6-6	11/16x16	3/8	2.57	65	0.91	23	13/16	1.29	33	
1J9HY-6-8	11/16x16	1/2	2.77	70	0.91	23	13/16	1.48	38	
1J9HY-8-6	13/16x16	3/8	2.64	67	1.14	29	15/16	1.37	35	
1J9HY-8-8	13/16x16	1/2	2.85	72	1.14	29	15/16	1.56	40	
1J9HY-10-8	1x14	1/2	3.01	76	1.26	32	1-1/8	1.72	44	
1J9HY-10-10	1x14	5/8	3.09	78	1.26	32	1-1/8	1.73	44	
1J9HY-10-12	1x14	3/4	3.52	89	1.33	34	1-1/8	1.97	50	
1J9HY-12-8	1-3/16x12	1/2	3.84	98	1.89	48	1-3/8	2.39	61	
1J9HY-12-10	1-3/16x12	5/8	3.61	92	1.89	48	1-3/8	2.25	57	
1J9HY-12-12	1-3/16x12	3/4	3.68	93	1.89	48	1-3/8	2.15	55	
1J9HY-16-12	1-7/16x12	3/4	4.27	108	2.25	57	1-5/8	2.69	68	
1J9HY-16-16	1-7/16x12	1	4.45	113	2.25	57	1-5/8	2.84	72	
1J9HY-20-16	1-11/16x12	1	4.77	121	2.51	64	1-7/8	3.16	80	

## 1J1HY

**Female Seal-Lok® - Swivel - 90° Elbow - Long Drop**  
ISO 12151-1 - SWEL90



# Part Number	Thread inch	Hose I.D. inch	A		E		W		B	
			inch	mm	inch	mm	inch	mm	inch	mm
1J1HY-4-4	9/16x18	1/4	2.68	68	1.81	46	11/16	1.41	36	
1J1HY-6-4	11/16x16	1/4	2.89	73	2.13	54	13/16	1.62	41	
1J1HY-6-6	11/16x16	3/8	2.76	70	2.13	54	13/16	1.49	38	
1J1HY-8-6	13/16x16	3/8	2.85	72	2.52	64	15/16	1.58	40	
1J1HY-8-8	13/16x16	1/2	2.94	75	2.52	64	15/16	1.65	42	
1J1HY-10-8	1x14	1/2	3.01	76	2.76	70	1-1/8	1.72	44	
1J1HY-10-10	1x14	5/8	3.42	87	2.76	70	1-1/8	2.03	52	
1J1HY-12-12	1-3/16x12	3/4	3.68	93	3.78	96	1-3/8	2.15	55	
1J1HY-16-16	1-7/16x12	1	4.45	113	4.50	114	1-5/8	2.84	72	

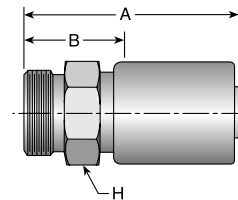
See Accessories Section for O-Rings.

## 1D0HY

### Male Metric L - Rigid - (24° Cone)

ISO 12151-2

#											
Part Number	Thread mm		Hose I.D. inch	A inch mm		H mm	B inch mm				
1D0HY-6-4	6	M12x1.5	1/4	2.36	60	14	1.00	25			
1D0HY-8-4	8	M14x1.5	1/4	2.36	60	17	1.00	25			
1D0HY-10-4	10	M16x1.5	1/4	2.40	61	19	1.03	26			
1D0HY-10-6	10	M16x1.5	3/8	2.42	61	19	1.06	27			
1D0HY-12-6	12	M18x1.5	3/8	2.42	61	22	1.06	27			
1D0HY-15-6	15	M22x1.5	3/8	2.52	64	24	1.16	29			
1D0HY-15-8	15	M22x1.5	1/2	2.63	67	24	1.28	33			
1D0HY-18-10	18	M26x1.5	5/8	2.71	69	27	1.31	33			

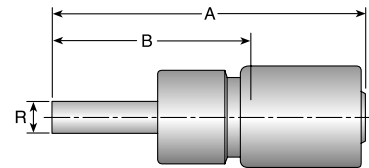


## 13DHY

### Male Standpipe Metric S - Rigid

End Connection per ISO 8434-1-SDS

#						
Part Number	R mm	Hose I.D. inch	A inch mm		B inch mm	
13DHY-16-8	16	1/2	3.53	90	2.16	55
13DHY-30-16	30	1	4.15	105	2.53	64

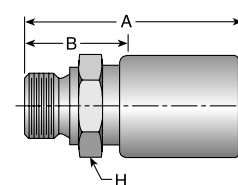


## 1D9HY

### Male BSP Parallel Pipe - Rigid - (60° Cone)

ISO 228-1

#							
Part Number	Thread inch	Hose I.D. inch	A inch mm		H inch	B inch mm	
1D9HY-4-4	1/4x19	1/4	2.40	61	13/16	1.03	26
1D9HY-6-6	3/8x19	3/8	2.55	65	7/8	1.19	30
1D9HY-8-6	1/2x14	3/8	2.65	67	1-1/16	1.28	33
1D9HY-8-8	1/2x14	1/2	2.83	72	1-1/16	1.47	37



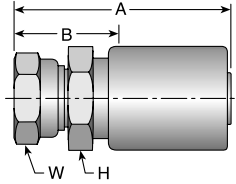
When used in a port, a bonded seal must be used. See Accessories Section for more information.

Metric L: Mates with EO "L" Series Fittings.  
Metric S: Mates with EO "S" Series Fittings.



## 1GUHY

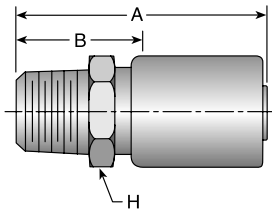
**Female BSP Parallel Pipe - Swivel - (60° Cone)**  
ISO 228-1



#			A		H	W	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	mm
1GUHY-4-4	1/4x19	1/4	2.62	67	9/16	11/16	1.28	33
1GUHY-6-4	3/8x19	1/4	2.69	68	3/4	7/8	1.34	34
1GUHY-6-6	3/8x19	3/8	2.70	69	3/4	7/8	1.34	34
1GUHY-8-6	1/2x14	3/8	2.84	72	7/8	1	1.50	38
1GUHY-8-8	1/2x14	1/2	3.02	77	7/8	1	1.66	42
1GUHY-12-12	3/4x14	3/4	3.25	83	1-1/4	1-1/4	1.69	43
1GUHY-16-16	1x11	1	3.45	88	1-3/8	1-1/2	1.84	47

## 1UTHY

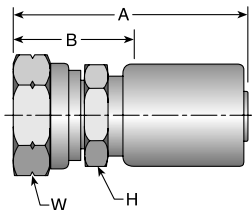
**Male BSP Taper Pipe - Rigid - (60° Cone)**



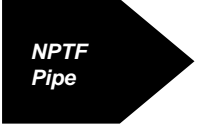
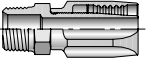

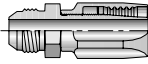
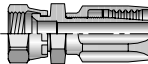
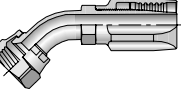
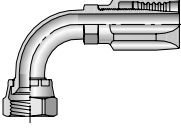
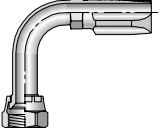

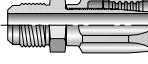
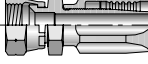
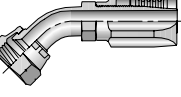
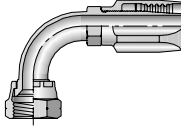
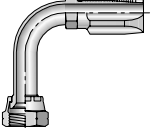

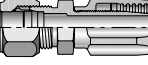

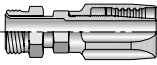
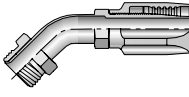
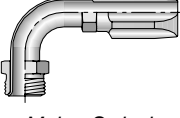

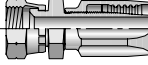

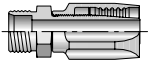

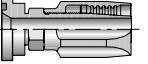
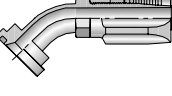
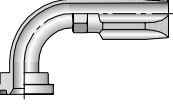

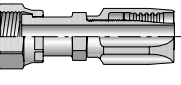
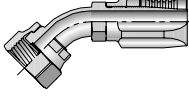
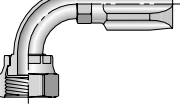
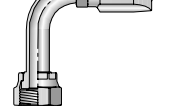

#			A		H	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm
1UTHY-2-4	1/8x28	1/4	2.34	59	9/16	1.00	25
1UTHY-4-4	1/4x19	1/4	2.53	64	9/16	1.19	30

## 1XUHY

**Female Metric Swivel - (30° Flare)**

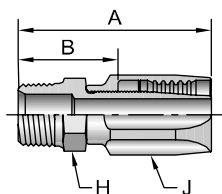


#			A		H	W	B	
Part Number	Thread mm	Hose I.D. inch	inch	mm	mm	mm	inch	mm
1XUHY-24-8	24 M24x1.5	1/2	3.14	80	22	30	1.72	44
1XUHY-24-10	24 M24x1.5	5/8	3.22	82	30	30	1.84	47
1XUHY-30-12	30 M30x1.5	3/4	3.31	84	32	38	1.75	44
1XUHY-33-16	33 M33x1.5	1	3.62	92	36	41	2.00	51

 <p><b>NPTF Pipe</b></p>	<p>20120 B-142</p>  <p>Male - Rigid</p>	 <p><b>JIC 37°</b></p>	<p>20320 B-142</p>  <p>Male - Rigid</p>	<p>20620 B-143</p>  <p>Female - Swivel</p>	<p>23720 B-143</p>  <p>Female - Swivel 45° Elbow - Short</p>
<p>23920 B-144</p>  <p>Female - Swivel 90° Elbow - Short</p>	<p>24120 B-144</p>  <p>Female - Swivel 90° Elbow - Long</p>	 <p><b>SAE 45°</b></p>	<p>20420 B-144</p>  <p>Male - Rigid</p>	<p>20820 B-145</p>  <p>Female - Swivel</p>	<p>27720 B-145</p>  <p>Female - Swivel 45° Elbow</p>
<p>27920 B-145</p>  <p>Female - Swivel 90° Elbow</p>	<p>28120 B-146</p>  <p>Female - Swivel 90° Elbow - Long</p>	 <p><b>Flareless</b></p>	<p>21120 B-146</p>  <p>Male - Rigid</p>	 <p><b>Inverted Flare</b></p>	<p>22820 B-146</p>  <p>Male - Swivel</p>
<p>26720 B-146</p>  <p>Male - Swivel 45° Elbow</p>	<p>26920 B-147</p>  <p>Male - Swivel 90° Elbow</p>	 <p><b>PTT 30°</b></p>	<p>23220 B-147</p>  <p>Female - Swivel</p>	 <p><b>Compression</b></p>	<p>26120 B-147</p>  <p>Male (without Nut or Sleeve)</p>
 <p><b>Code 61 Flange</b></p>	<p>21520 B-147</p>  <p>Flange</p>	<p>21720 B-148</p>  <p>45° Elbow</p>	<p>21920 B-148</p>  <p>90° Elbow</p>	 <p><b>Seal-Lok® (O-Ring Face Seal)</b></p>	<p>2JS20 B-148</p>  <p>Female - Swivel Long</p>
<p>2J720 B-148</p>  <p>Female - Swivel 45° Elbow</p>	<p>2J920 B-149</p>  <p>Female - Swivel 90° Elbow - Short</p>	<p>2J120 B-149</p>  <p>Female - Swivel 90° Elbow - Long</p>	 <p><b>Assembly Instructions</b></p>	<p>20 Series Assembly Instructions</p>	

## 20120

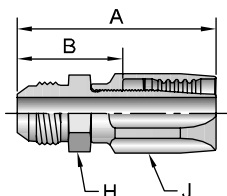
### Male NPTF Pipe - Rigid



#									
Part Number	Thread inch	Hose I.D. inch	A		H	J	B		Additional Material Brass (B)
20120-2-4	1/8x27	3/16	1.72	44	7/16	5/8	0.94	24	
20120-2-5	1/8x27	1/4	1.82	46	1/2	11/16	0.99	25	
20120-4-4	1/4x18	3/16	1.93	49	9/16	5/8	1.15	29	
20120-4-5	1/4x18	1/4	2.01	51	9/16	11/16	1.18	30	
20120-4-6	1/4x18	5/16	2.11	54	9/16	13/16	1.19	30	
20120-6-6	3/8x18	5/16	2.20	56	3/4	13/16	1.28	33	
20120-6-8	3/8x18	13/32	2.48	63	3/4	15/16	1.39	35	
20120-8-8	1/2x14	13/32	2.73	69	7/8	15/16	1.64	42	
20120-8-10	1/2x14	1/2	2.88	73	7/8	1-1/8	1.66	42	
20120-12-10	3/4x14	1/2	2.95	75	1-1/16	1-1/8	1.73	44	
20120-12-12	3/4x14	5/8	3.25	83	1-1/16	1-1/4	1.75	44	
20120-12-16	3/4x14	7/8	2.81	71	1-3/8	1-7/16	1.62	41	
20120-16-16	1x11-1/2	7/8	2.99	76	1-3/8	1-7/16	1.80	46	•
20120-20-20	1-1/4x11-1/2	1-1/8	3.24	82	1-3/4	1-3/4	1.96	50	•
20120-24-24	1-1/2x11-1/2	1-3/8	3.50	89	2	2	2.13	54	•
20120-32-32	2 x11-1/2	1-13/16	4.05	103	2-1/2	2-1/2	2.31	59	•

## 20320

### Male JIC 37° - Rigid

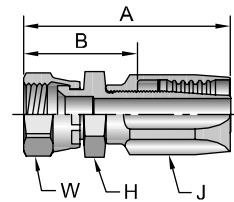


#									
Part Number	Thread inch		Hose I.D. inch	A		H	J	B	
20320-4-4	1/4	7/16x20	3/16	1.83	46	1/2	5/8	1.05	27
20320-5-5	5/16	1/2x20	1/4	1.94	49	9/16	11/16	1.11	28
20320-6-6	3/8	9/16x18	5/16	2.11	54	5/8	13/16	1.19	30
20320-8-8	1/2	3/4x16	13/32	2.57	65	13/16	15/16	1.48	38
20320-10-10	5/8	7/8x14	1/2	2.88	73	15/16	1-1/8	1.66	42
20320-12-12	3/4	1-1/16x12	5/8	3.35	85	1-1/8	1-1/4	1.85	47
20320-16-16	1	1-5/16x12	7/8	2.95	75	1-3/8	1-7/16	1.76	45

## 20620

### Female JIC 37° - Swivel

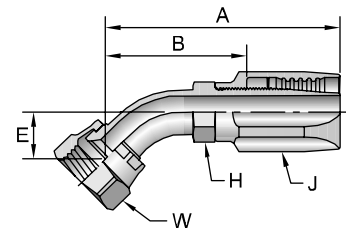
# Part Number	Thread inch	Hose I.D. inch	A inch mm	H inch	J inch	W inch	B inch mm	Additional Material Stainless Steel (C)
20620-4-4	1/4 7/16x20	3/16	1.94 49	9/16	5/8	9/16	1.16 29	•
20620-4-5	1/4 7/16x20	1/4	2.04 52	9/16	11/16	9/16	1.21 31	
20620-5-5	5/16 1/2x20	1/4	2.12 54	5/8	11/16	5/8	1.29 33	
20620-6-5	3/8 9/16x18	1/4	2.19 56	11/16	11/16	11/16	1.36 35	
20620-6-6	3/8 9/16x18	5/16	2.32 59	11/16	13/16	11/16	1.40 36	•
20620-8-6	1/2 3/4x16	5/16	2.44 62	7/8	13/16	7/8	1.52 39	
20620-8-8	1/2 3/4x16	13/32	2.79 71	7/8	15/16	7/8	1.70 43	•
20620-8-10	1/2 3/4x16	1/2	2.99 76	7/8	1-1/8	7/8	1.77 45	
20620-10-8	5/8 7/8x14	13/32	2.94 75	7/8	15/16	1	1.85 47	
20620-10-10	5/8 7/8x14	1/2	3.10 79	1	1-1/8	1	1.88 48	•
20620-10-12	5/8 7/8x14	5/8	3.40 86	1	1-1/4	1	1.90 48	
20620-12-12	3/4 1-1/16x12	5/8	3.49 89	1-1/4	1-1/4	1-1/4	1.99 51	•
20620-16-16	1 1-5/16x12	7/8	3.20 81	1-1/2	1-7/16	1-1/2	2.01 51	•
20620-20-20	1-1/4 1-5/8x12	1-1/8	3.56 90	2	1-3/4	2	2.28 58	
20620-24-24	1-1/2 1-7/8x12	1-3/8	3.95 100	2-1/4	2	2-1/4	2.58 66	
20620-32-32	2 2-1/2x12	1-13/16	4.71 120	2-7/8	2-1/2	2-7/8	2.97 75	



## 23720

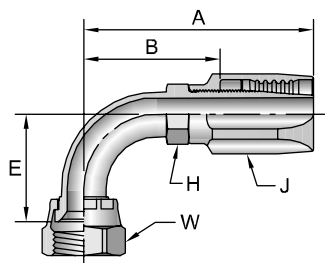
### Female JIC 37° - Swivel - 45° Elbow - Short Drop

# Part Number	Thread inch	Hose I.D. inch	A inch mm	E inch mm	H inch	J inch	W inch	B inch mm
23720-4-4	1/4 7/16x20	3/16	2.08 53	0.33 8	3/8	5/8	9/16	1.30 33
23720-5-5	5/16 1/2x20	1/4	2.30 58	0.36 9	7/16	11/16	5/8	1.47 37
23720-6-6	3/8 9/16x18	5/16	2.45 62	0.39 10	1/2	13/16	11/16	1.53 39
23720-8-6	1/2 3/4x16	5/16	2.77 70	0.55 14	5/8	13/16	7/8	1.85 47
23720-10-10	5/8 7/8x14	1/2	3.36 85	0.65 17	3/4	1-1/8	1	2.14 54
23720-12-12	3/4 1-1/16x12	5/8	3.94 100	0.79 20	7/8	1-1/4	1-1/4	2.44 62
23720-16-16	1 1-5/16x12	7/8	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	1-1/8	4.17 106	1.19 30	1-1/2	1-3/4	2	2.89 73



## 23920

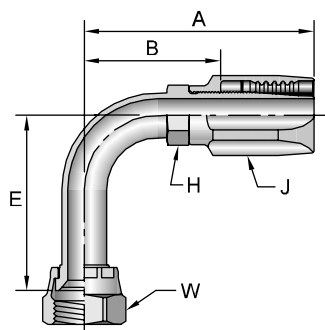
### Female JIC 37° - Swivel - 90° Elbow - Short Drop



#											
Part Number	Thread	Hose I.D.	A		E		H	J	W	B	
	inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
23920-4-4	1/4	7/16x20	3/16	1.91	49	0.83	21	3/8	5/8	9/16	1.13
23920-5-5	5/16	1/2x20	1/4	2.30	58	0.77	20	7/16	11/16	5/8	1.47
23920-6-6	3/8	9/16x18	5/16	2.35	60	0.90	23	1/2	13/16	11/16	1.43
23920-8-8	1/2	3/4x16	13/32	2.88	73	1.09	28	5/8	15/16	7/8	1.79
23920-10-10	5/8	7/8x14	1/2	3.20	81	1.24	31	3/4	1-1/8	1	1.98
23920-12-12	3/4	1-1/16x12	5/8	3.86	98	1.82	46	7/8	1-1/4	1-1/4	2.36
23920-16-16	1	1-5/16x12	7/8	3.69	94	2.14	54	1-1/8	1-7/16	1-1/2	2.50
23920-20-20	1-1/4	1-5/8x12	1-1/8	4.01	102	2.59	66	1-1/2	1-3/4	2	2.73
23920-24-24	1-1/2	1-7/8x12	1-3/8	4.43	113	2.82	72	1-3/4	2	2-1/4	3.06

## 24120

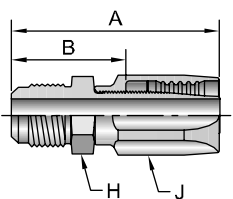
### Female JIC 37° - Swivel - 90° Elbow - Long Drop



#											
Part Number	Thread	Hose I.D.	A		E		H	J	W	B	
	inch	inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
24120-4-4	1/4	7/16x20	3/16	2.08	53	1.80	46	3/8	5/8	9/16	1.30
24120-6-6	3/8	9/16x18	5/16	2.34	59	2.18	55	1/2	13/16	11/16	1.42
24120-8-8	1/2	3/4x16	13/32	2.95	75	2.43	62	5/8	15/16	7/8	1.86
24120-10-10	5/8	7/8x14	1/2	3.26	83	2.58	66	3/4	1-1/8	1	2.04
24120-12-12	3/4	1-1/16x12	5/8	3.78	96	3.74	95	7/8	1-1/4	1-1/4	2.28

## 20420

### Male SAE 45° - Rigid

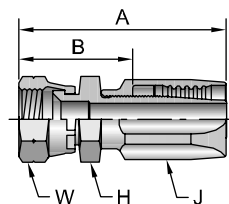


#									
Part Number	Thread	Hose I.D.	A		H	J	B		
	inch	inch	inch	mm	inch	inch	inch	mm	
20420-4-4	1/4	7/16x20	3/16	1.80	46	1/2	5/8	1.02	26
20420-5-5	5/16	1/2x20	1/4	1.94	49	9/16	11/16	1.11	28
20420-6-6	3/8	5/8x18	5/16	2.17	55	11/16	13/16	1.25	32
20420-8-8	1/2	3/4x16	13/32	2.67	68	13/16	15/16	1.58	40
20420-10-10	5/8	7/8x14	1/2	3.00	76	15/16	1-1/8	1.78	45
20420-12-12	3/4	1-1/16x14	5/8	3.50	89	1-1/8	1-1/4	2.00	51

## 20820

### Female SAE 45° - Swivel

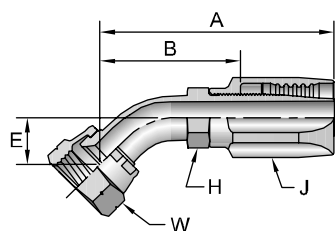
#				A		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	inch	mm
20820-4-4	1/4 7/16x20	3/16		1.94	49	9/16	5/8	9/16	1.16	29
20820-4-5	1/4 7/16x20	1/4		2.04	52	9/16	11-16	9/16	1.21	31
20820-5-5	5/16 1/2x20	1/4		2.12	54	5/8	11-16	5/8	1.29	33
20820-6-6	3/8 5/8x18	5/16		2.36	60	3/4	13/16	3/4	1.44	37
20820-8-8	1/2 3/4x16	3/8		2.79	71	7/8	15/16	7/8	1.70	43
20820-8-10	1/2 3/4x16	1/2		2.99	76	7/8	1-1/8	7/8	1.77	45
20820-10-10	5/8 7/8x14	1/2		3.10	79	1	1-1/8	1	1.88	48
20820-12-12	3/4 1-1/16x14	5/8		3.49	89	1-1/4	1-1/4	1-1/4	1.99	51



## 27720

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

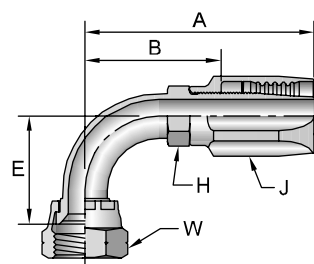
#			A		E		H	J	W	B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	inch	inch	inch	mm
27720-6-6	3/8 5/8x18	5/16	2.45	62	0.39	10	1/2	13/16	3/4	1.53	39
27720-8-6	1/2 3/4x16	5/16	2.77	71	0.55	14	5/8	13/16	7/8	1.86	47
27720-8-8	1/2 3/4x16	13/32	3.09	78	0.55	14	5/8	15/16	7/8	2.00	51
27720-10-10	5/8 7/8x14	1/2	3.35	85	0.65	17	3/4	1-1/8	1	2.13	54



## 27920

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

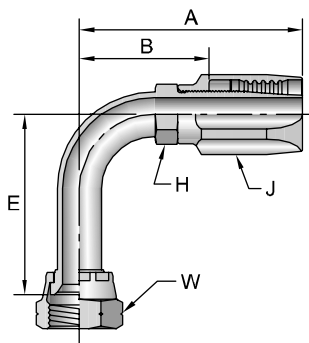
#			A		E		H	J	W	B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	inch	inch	inch	mm
27920-4-4	1/4 7/16x20	3/16	1.91	49	0.83	21	3/8	5/8	9/16	1.13	29
27920-5-5	5/16 1/2x20	1/4	2.30	58	0.77	20	7/16	11/16	5/8	1.47	37
27920-6-6	3/8 5/8x18	5/16	2.33	59	0.85	22	1/2	13/16	3/4	1.41	36
27920-8-8	1/2 3/4x16	13/32	2.86	73	1.09	28	5/8	15/16	7/8	1.77	45
27920-10-10	5/8 7/8x14	1/2	3.20	81	1.24	31	3/4	1-1/8	1	1.98	50
27920-12-12	3/4 1-1/16x14	5/8	3.87	98	1.82	46	7/8	1-1/4	1-1/4	2.37	60



Notch in nut signifies 45° flare.

## 28120

### Female SAE 45° - Swivel - 90° Elbow - Long Drop

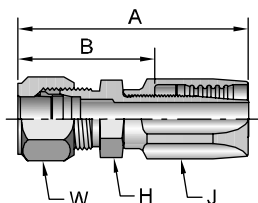







#										
Part Number	Thread	Hose I.D.	A		E		H	J	W	B
	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm
28120-6-6	3/8 5/8x18	5/16	2.34	59	2.18	55	1/2	13/16	3/4	1.42 36
28120-8-8	1/2 3/4x16	13/32	2.95	75	2.43	62	5/8	15/16	7/8	1.86 47

Notch in nut signifies 45° flare.

## 21120

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

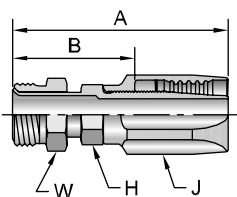







#			A					B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	H inch	J inch	W inch	inch	mm
21120-6-6	3/8 9/16x18	5/16	2.05	52	5/8	13/16	11/16	1.13	29
21120-8-8	1/2 3/4x16	13/32	2.52	64	13/16	15/16	7/8	1.43	36

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 the Technical Section.

## 22820

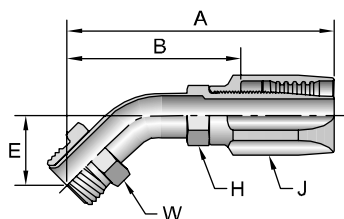
### Male Inverted SAE 45° - Swivel



#											
Part Number	Thread		Hose I.D.		A		H	J	W	B	
	inch		inch		inch	mm	inch	inch	inch	inch	mm
22820-4-4	1/4	7/16x24	3/16		2.45	62	3/8	5/8	7/16	1.67	42
22820-5-5	5/16	1/2x20	1/4		2.70	69	7/16	11/16	1/2	1.87	47
22820-6-6	3/8	5/8x18	5/16		2.95	75	1/2	13/16	5/8	2.03	52
22820-8-8	1/2	3/4x18	13/32		3.36	85	5/8	15/16	3/4	2.27	58
22820-10-10	5/8	7/8x18	1/2		3.64	92	3/4	1-1/8	7/8	2.42	61

## 26720

### Male Inverted SAE 45° - Swivel - 45° Elbow



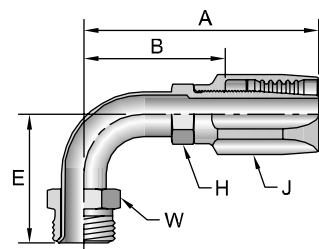
#										
Part Number	Thread	Hose I.D.	A		E		H	J	W	B
	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm
26720-4-4	1/4 7/16x24	3/16	2.21	56	0.62	16	3/8	5/8	7/16	1.43 36
26720-5-5	5/16 1/2x20	1/4	2.44	62	0.70	18	7/16	11/16	1/2	1.61 41
26720-6-6	3/8 5/8x18	5/16	3.00	76	0.94	24	1/2	13/16	5/8	2.08 53
26720-8-8	1/2 3/4x18	13/32	3.51	89	1.09	28	5/8	15/16	3/4	2.42 61



## 26920

### Male Inverted SAE 45° - Swivel - 90° Elbow

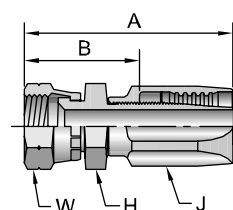
#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
26920-4-4	1/4	7/16x24	3/16	2.29	58	1.56	40	3/8	5/8	7/16	1.51	38
26920-5-5	5/16	1/2x20	1/4	2.55	65	1.65	42	7/16	11/16	1/2	1.72	44
26920-5-6	5/16	1/2x20	5/16	2.63	67	1.65	42	1/2	13/16	1/2	1.71	43
26920-6-6	3/8	5/8x18	5/16	2.67	68	1.69	43	1/2	13/16	5/8	1.75	44
26920-8-8	1/2	3/4x18	13/32	3.09	78	1.88	48	5/8	15/16	3/4	2.00	51



## 23220

### Female PTT 30° - Swivel

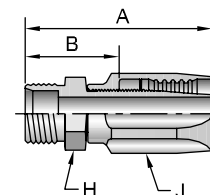
#				A		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	inch	mm
23220-16-16	1	1-5/16x14	7/8	2.98	76	1-1/2	1-7/16	1-1/2	1.79	45



## 26120

### Male SAE Compression Seat (without Nut or Sleeve)

#				A		H	J	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	mm
26120-10-10	5/8	13/16x18	1/2	2.64	67	7/8	1-1/8	1.42	36

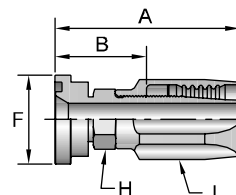


## 21520

### SAE Code 61 Flange Head ISO 12151-3-S-L

#			A		F	H	J	B	
Part Number	Flange	Hose I.D.	inch	mm	inch	inch	inch	inch	mm
21520-20-20	1-1/4	1-1/8	3.58	91	2	1-1/2	1-3/4	2.30	58
21520-40-40	2-1/2	2-3/8	5.22	133	3-5/16	2-3/4	3-1/8	3.41	87

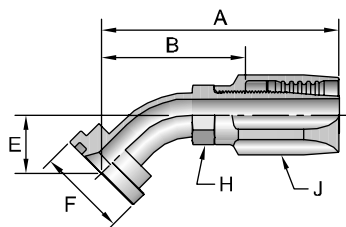
See Accessories Section for O-Rings and Flange Kits.








## 21720

### SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3- E45S - L (1 Piece: ISO 12151-3- E45M - L)

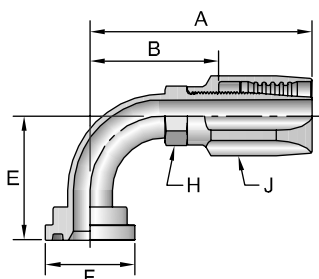







#			A		E					B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
21720-20-20	1-1/4	1-1/8	4.10	104	1.12	28	2	1-1/2	1-3/4	2.82	72
21720-40-40	2-1/2	2-3/8	5.83	148	1.41	36	3-3/8	2-3/4	3-1/8	4.02	102

## 21920

### SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3- E90S - L (1 Piece: ISO 12151-3- E90M - L)

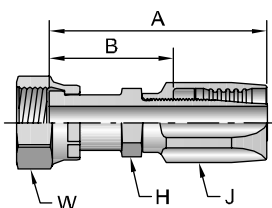







#			A		E					B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
21920-8-8	1/2	13/32	2.95	75	1.62	41	1-3/16	5/8	15/16	1.86	47
21920-32-32	2	1-13/16	5.44	138	3.19	81	2-13/16	2-1/4	2-1/2	3.70	94
21920-40-40	2-1/2	2-3/8	6.18	157	3.75	95	3-5/16	2-3/4	3-1/8	4.37	111

## 2JS20

### Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

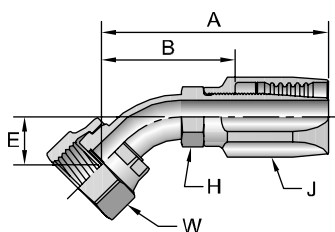







#				A					B	
Part Number	Thread	inch	Hose I.D.	inch	mm	H	J	W	inch	mm
2JS20-4-4	1/4	9/16x18	3/16	2.07	53	9/16	5/8	11/16	1.29	33
2JS20-6-6	3/8	11/16x16	5/16	2.36	60	1/2	13/16	13/16	1.44	37
2JS20-8-8	1/2	13/16x16	13/32	2.92	74	5/8	15/16	15/16	1.83	46
2JS20-10-10	5/8	1x14	1/2	3.15	80	3/4	1-1/8	1-1/8	1.93	49
2JS20-12-12	3/4	1-3/16x12	5/8	3.66	93	1-1/8	1-1/4	1-3/8	2.16	55

## 2J720

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45



#												
Part Number	Thread		Hose I.D.	A		E		H	J	W	B	
	inch		inch	inch	mm	inch	mm	inch	inch	inch	inch	mm
2J720-4-4	1/4	9/16x18	3/16	2.24	57	0.41	10	7/16	5/8	11/16	1.46	37
2J720-6-6	3/8	11/16x16	5/16	2.52	64	0.43	11	1/2	13/16	13/16	1.60	41
2J720-8-8	1/2	13/16x16	13/32	3.19	81	0.59	15	5/8	15/16	15/16	2.10	53
2J720-10-10	5/8	1x14	1/2	3.46	88	0.65	17	3/4	1-1/8	1-1/8	2.24	57

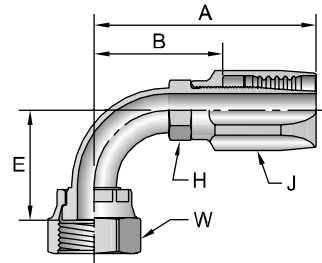
See Accessories Section for O-Rings and Flange Kits.

## 2J920

### Female Seal-Lok® - Swivel 90° Elbow - Short Drop

ISO 12151-1 - SWE90

# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch			inch	mm	inch	mm				inch	mm
2J920-4-4	1/4	9/16x18	3/16	2.22	56	0.82	21	7/16	5/8	11/16	1.44	37
2J920-6-6	3/8	11/16x16	5/16	2.39	61	0.90	23	1/2	13/16	13/16	1.47	37
2J920-8-8	1/2	13/16x16	13/32	2.91	74	1.15	29	5/8	15/16	15/16	1.82	46
2J920-10-10	5/8	1x14	1/2	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	5/8	3.74	95	1.85	47	7/8	1-1/4	1-3/8	2.24	57

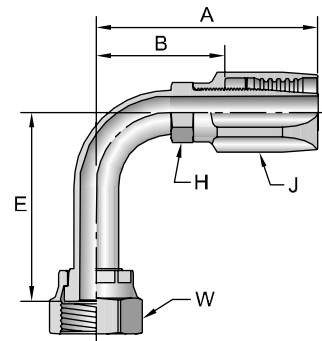


## 2J120

### Female Seal-Lok® - Swivel - 90° Elbow - Long Drop

ISO 12151-1 - SWEL90

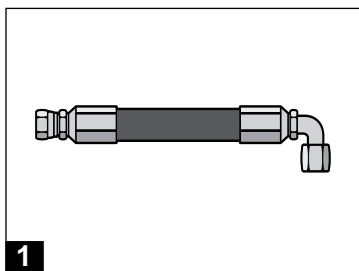
# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch			inch	mm	inch	mm				inch	mm
2J120-4-4	1/4	9/16x18	3/16	2.01	51	1.80	46	7/16	5/8	11/16	1.23	31
2J120-6-6	3/8	11/16x16	5/16	2.48	63	2.13	54	1/2	13/16	13/16	1.56	40
2J120-8-8	1/2	13/16x16	13/32	2.96	75	2.51	64	5/8	15/16	15/16	1.87	47



See Accessories Section for O-Rings.

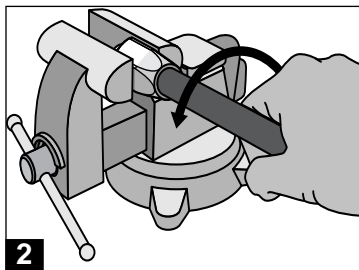
## 20 Series Hose Assembly Instructions

A



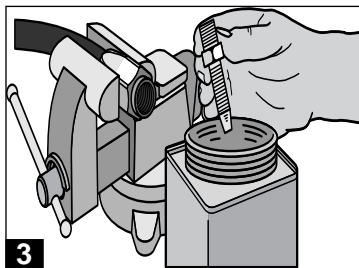
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or cutoff machine. Care should be taken to ensure a square, clean cut is obtained.

B



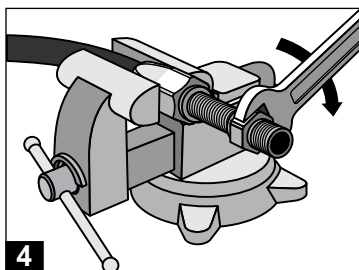
2. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out 1/2 turn.

C



3. Oil inside of hose and nipple threads liberally with Hoze-Oil. (See Section C). Do not oil hose cover.

D



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 two 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 Section C) or equivalent metal assembly lubricant.

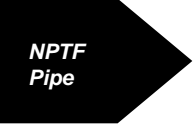
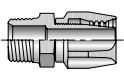

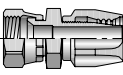
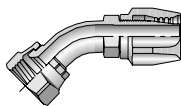
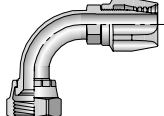
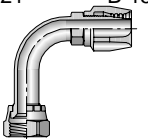

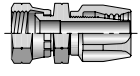
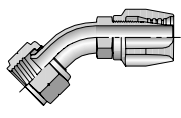
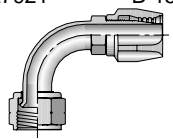

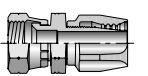

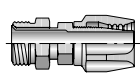
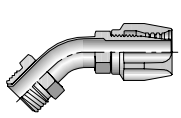
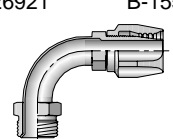

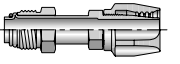
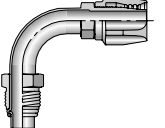
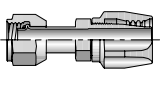
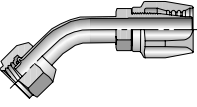
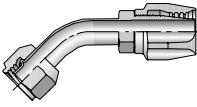
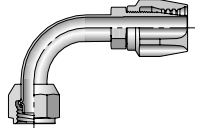
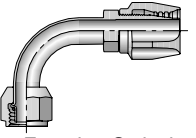

**Note: DISASSEMBLE IN REVERSE ORDER**

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

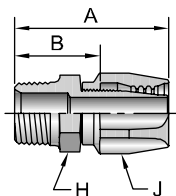
FAX: 440/943-3129

<http://www.parkerhose.com>

 <b>NPTF Pipe</b>	20121 B-152  Male - Rigid	 <b>JIC 37°</b>	20621 B-152  Female - Swivel	23721 B-152  Female - Swivel 45° Elbow - Short	23921 B-153  Female - Swivel 90° Elbow - Short
24121 B-153  Female - Swivel 90° Elbow - Long	 <b>SAE 45°</b>	20821 B-153  Female - Swivel	27721 B-153  Female - Swivel 45° Elbow	27921 B-154  Female - Swivel 90° Elbow	 <b>PTT 30°</b>
23221 B-154  Female - Swivel	 <b>Inverted Flare</b>	22821 B-154  Male - Swivel	26721 B-154  Male - Swivel 45° Elbow	26921 B-155  Male - Swivel 90° Elbow	 <b>Tube-O</b>
2S521 B-155  Male - Swivel Short	25M21 B-155  Male - Swivel 90° Elbow - Long	25S21 B-155  Female - Swivel Short	25H21 B-156  Female - Swivel 45° Elbow - Short	25N21 B-156  Female - Swivel 45° Elbow - Long	25T21 B-156  Female - Swivel 90° Elbow - Short
25L21 B-156  Female - Swivel 90° Elbow - Long	 <b>Assembly Instructions</b>	21 Series Assembly Instructions B-157			

## 20121

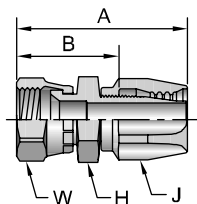
### Male NPTF Pipe - Rigid



# Part Number	Thread inch	Hose I.D. inch	A		H inch	J inch	B	
			inch	mm			inch	mm
20121-2-4	1/8x27	3/16	1.55	39	7/16	9/16	0.88	22
20121-4-4	1/4x18	3/16	1.77	45	9/16	9/16	1.10	28
20121-4-5	1/4x18	1/4	1.79	45	9/16	5/8	1.05	27
20121-4-6	1/4x18	5/16	1.92	49	9/16	3/4	1.14	29
20121-6-6	3/8x18	5/16	1.95	50	11/16	3/4	1.17	30
20121-6-8	3/8x18	13/32	2.10	53	11/16	7/8	1.18	30
20121-8-8	1/2x14	13/32	2.34	59	7/8	7/8	1.42	36
20121-8-10	1/2x14	1/2	2.44	62	7/8	1-1/16	1.44	37
20121-12-12	3/4x14	5/8	2.58	66	1-1/8	1-1/4	1.50	38
20121-12-16	3/4x14	7/8	2.50	64	1-1/4	1-7/16	1.51	38
20121-16-16	1x11-1/2	7/8	2.69	68	1-3/8	1-7/16	1.70	43
20121-20-20	1-1/4x11-1/2	1-1/8	2.91	74	1-11/16	1-3/4	1.87	47
20121-24-24	1-1/2x11-1/2	1-3/8	3.02	77	2	2	1.92	49

## 20621

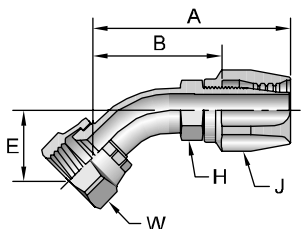
### Female JIC 37° - Swivel



# Part Number	Thread inch		Hose I.D. inch	A		H inch	J inch	W inch	B	
				inch	mm				inch	mm
20621-4-4	1/4	7/16x20	3/16	1.83	46	9/16	9/16	9/16	1.16	29
20621-5-5	5/16	1/2x20	1/4	1.92	49	5/8	5/8	5/8	1.18	30
20621-6-6	3/8	9/16x18	5/16	2.09	53	11/16	3/4	11/16	1.31	33
20621-8-8	1/2	3/4x16	13/32	2.46	62	7/8	7/8	7/8	1.54	39
20621-8-10	1/2	3/4x16	1/2	2.56	65	1	1-1/16	7/8	1.56	40
20621-10-10	5/8	7/8x14	1/2	2.65	67	1	1-1/16	1	1.65	42
20621-12-12	3/4	1-1/16x12	5/8	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45
20621-16-16	1	1-5/16x12	7/8	2.94	75	1-1/2	1-7/16	1-1/2	1.95	50
20621-20-20	1-1/4	1-5/8x12	1-1/8	3.16	80	2	1-3/4	2	2.12	54

## 23721

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

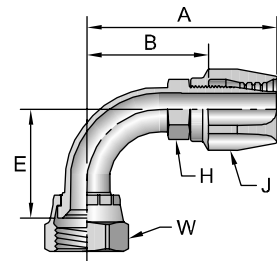


# Part Number	Thread inch		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
				inch	mm	inch	mm				inch	mm
23721-4-4	1/4	7/16x20	3/16	2.11	54	0.39	10	3/8	9/16	9/16	1.43	36
23721-6-6	3/8	9/16x18	5/16	2.26	57	0.40	10	1/2	3/4	11/16	1.48	38
23721-8-8	1/2	3/4x16	13/32	2.73	69	0.55	14	5/8	7/8	7/8	1.81	46
23721-10-10	5/8	7/8x14	1/2	2.97	75	0.64	16	3/4	1-1/16	1	1.97	50
23721-12-12	3/4	1-1/16x12	5/8	3.30	84	0.83	21	7/8	1-1/4	1-1/4	2.22	56
23721-16-16	1	1-5/16x12	7/8	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	1-1/8	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

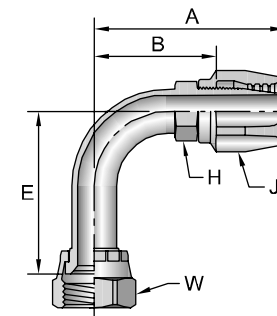
#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
23921-4-4	1/4	7/16 x 20	3/16	1.88	48	0.83	21	3/8	9/16	9/16	1.20	30
23921-4-6	1/4	7/16 x 20	5/16	1.95	50	0.83	21	1/2	3/4	9/16	1.17	30
23921-5-5	5/16	1/2 x 20	1/4	2.07	53	0.77	20	7/16	5/8	5/8	1.33	34
23921-6-6	3/8	9/16x18	5/16	2.15	55	0.85	22	1/2	3/4	11/16	1.37	35
23921-8-8	1/2	3/4 x 16	13/32	2.49	63	1.09	28	5/8	7/8	7/8	1.57	40
23921-10-10	5/8	7/8 x 14	1/2	2.69	68	1.23	31	3/4	1-1/16	1	1.69	43
23921-12-12	3/4	1-1/16 x 12	5/8	2.88	73	1.89	48	7/8	1-1/4	1-1/4	1.80	46
23921-16-16	1	1-5/16 x 12	7/8	3.40	86	2.14	54	1-1/8	1-7/16	1-1/2	2.41	61
23921-20-20	1-1/4	1-5/8 x 12	1-1/8	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

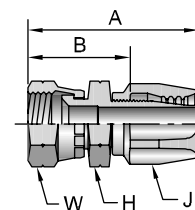
#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
24121-4-4	1/4	7/16x20	3/16	1.88	48	2.52	64	3/8	9/16	9/16	1.20	30
24121-6-6	3/8	9/16x18	5/16	2.14	54	2.18	55	1/2	3/4	11/16	1.36	35
24121-8-8	1/2	3/4x16	13/32	2.45	62	2.52	64	5/8	7/8	7/8	1.53	39
24121-10-10	5/8	7/8x14	1/2	2.91	74	2.57	65	3/4	1-1/16	1	1.91	49
24121-20-20	1-1/4	1-5/8x12	1-1/8	3.63	92	5.28	134	1-3/8	1-3/4	2	2.59	66



## 20821

Female SAE 45° - Swivel

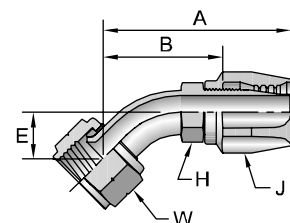
#				A		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	inch	mm
20821-4-4	1/4	7/16x20	3/16	1.83	46	9/16	9/16	9/16	1.16	29
20821-5-5	5/16	1/2x20	1/4	1.91	49	5/8	5/8	5/8	1.17	30
20821-6-6	3/8	5/8x18	5/16	2.12	54	3/4	3/4	3/4	1.34	34
20821-8-8	1/2	3/4x16	13/32	2.46	62	7/8	7/8	7/8	1.54	39
20821-10-10	5/8	7/8x14	1/2	2.65	67	1	1-1/16	1	1.65	42
20821-12-12	3/4	1-1/16x14	5/8	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45



## 27721

Female SAE 45° - Swivel - 45° Elbow

#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
27721-6-6	3/8	5/8x18	5/16	2.26	57	0.40	10	1/2	3/4	3/4	1.48	38
27721-12-12	3/4	1-1/16x14	5/8	3.30	84	0.83	21	7/8	1-1/4	1-1/4	2.22	56

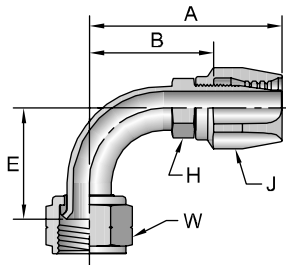


Notch in nut signifies 45° flare.



## 27921

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

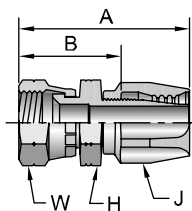


#												
Part Number	Thread		Hose I.D.	A	E	H	J	W	B			
27921-6-6	3/8	5/8x18	5/16	2.15	55	0.85	22	1/2	3/4	3/4	1.37	35
27921-12-12	3/4	1-1/16x14	5/8	2.88	73	1.89	48	7/8	1-1/4	1-1/4	1.89	46

Notch in nut signifies 45° flare.

## 23221

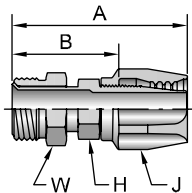
### Female PTT 30° - Swivel



#												
Part Number	Thread		Hose I.D.	A		H	J	W	B			
23221-16-16	1	1-5/16x14	7/8	2.70	69	1-1/2	1-7/16	1-1/2	1.71		43	

## 22821

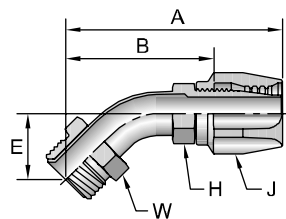
### Male Inverted SAE 45° - Swivel



#												
Part Number	Thread		Hose I.D.	A		H	J	W	B			
22821-4-4	1/4	7/16x24	3/16	2.36	60	3/8	9/16	7/16	1.68		43	
22821-5-4	5/16	1/2x20	3/16	2.32	59	7/16	9/16	1/2	1.64		42	
22821-5-5	5/16	1/2x20	1/4	2.34	59	7/16	5/8	1/2	1.60		41	
22821-5-6	5/16	1/2x20	5/16	2.47	63	1/2	3/4	1/2	1.69		43	
22821-6-6	3/8	5/8x18	5/16	2.45	62	1/2	3/4	5/8	1.67		42	
22821-8-8	1/2	3/4x18	13/32	2.84	72	5/8	7/8	3/4	1.92		49	
22821-10-10	5/8	7/8x18	1/2	2.91	74	3/4	1-1/16	7/8	1.91		49	

## 26721

### Male Inverted SAE 45° - Swivel - 45° Elbow

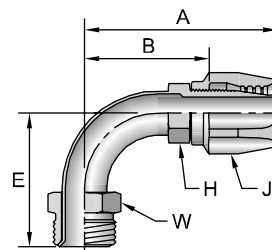


#												
Part Number	Thread		Hose I.D.	A	E	H	J	W	B			
26721-4-4	1/4	7/16x24	3/16	2.35	60	0.62	16	3/8	9/16	7/16	1.67	42
26721-5-5	5/16	1/2x20	1/4	2.59	66	0.94	24	7/16	5/8	1/2	1.85	47
26721-6-6	3/8	5/8x18	5/16	2.73	69	0.94	24	1/2	3/4	5/8	1.95	50
26721-8-8	1/2	3/4x18	13/32	3.05	77	0.94	24	5/8	7/8	3/4	2.13	54

## 26921

### Male Inverted SAE 45° - Swivel - 90° Elbow

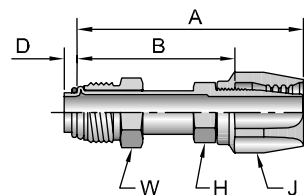
#				A		E		H	J	W	B	
Part Number	Thread inch	Hose I.D. inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
26921-4-4	1/4	7/16x24	3/16	2.45	62	1.56	40	3/8	9/16	7/16	1.77	45
26921-5-5	5/16	1/2x20	1/4	2.25	57	1.65	42	7/16	5/8	1/2	1.51	38
26921-5-6	5/16	1/2x20	5/16	2.38	60	1.65	42	1/2	3/4	1/2	1.60	41
26921-6-6	3/8	5/8x18	5/16	2.37	60	1.63	41	1/2	3/4	5/8	1.59	40
26921-8-8	1/2	3/4x18	13/32	2.63	67	1.78	45	5/8	7/8	3/4	1.71	43
26921-10-10	5/8	7/8x18	1/2	2.96	75	2.17	55	3/4	1-1/16	7/8	1.96	50



## 2S521

### Male Tube-O - Swivel - Short Pilot

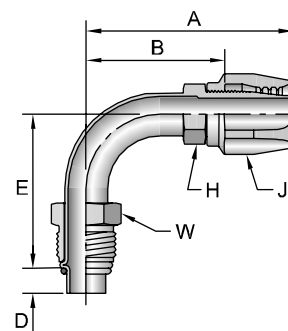
#				A		D		H	J	W	B	
Part Number	Thread inch	Hose I.D. inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
2S521-6-6	3/8	5/8x18	5/16	2.64	67	0.18	4,7	1/2	3/4	5/8	1.86	47



## 25M21

### Male Tube-O - Swivel - 90° Elbow - Long Pilot

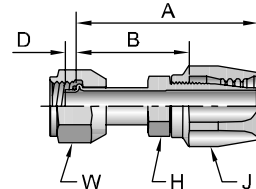
#				A		D		E		H	J	W	B	
Part Number	Thread inch	Hose I.D. inch		inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25M21-8-8	1/2	3/4x18	13/32	2.49	63	0.38	9,8	2.12	54	5/8	7/8	3/4	1.57	40
25M21-10-10	5/8	7/8x18	1/2	3.27	83	0.38	9,8	1.95	50	3/4	1-1/16	7/8	2.27	58



## 25S21

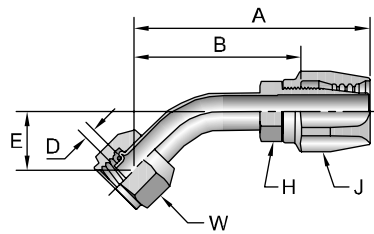
### Female Tube-O - Swivel - Short Pilot

#				A		D		H	J	W	B	
Part Number	Thread inch	Hose I.D. inch		inch	mm	inch	mm	inch	inch	inch	inch	mm
25S21-6-6	3/8	5/8x18	5/16	2.66	68	0.18	4,7	1/2	3/4	3/4	1.88	48
25S21-8-8	1/2	3/4x16	13/32	2.86	73	0.18	4,7	5/8	7/8	7/8	1.94	49



## 25H21

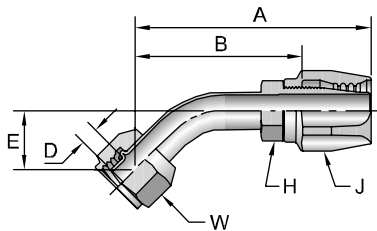
Female Tube-O - Swivel - 45° Elbow - Short Pilot



#												
Part Number	Thread	Hose I.D.	A	D	E	H	J	W	B			
25H21-8-8	1/2 3/4x16	13/32	2.74	70	0.18	4,7	0.60	15	5/8	7/8	7/8	1.82 46

## 25N21

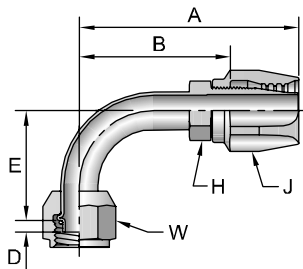
Female Tube-O - Swivel - 45° Elbow - Long Pilot



#												
Part Number	Thread	Hose I.D.	A	D	E	H	J	W	B			
25N21-8-8	1/2 3/4x16	13/32	3.24	82	0.38	9,8	0.98	25	5/8	7/8	7/8	2.32 59

## 25T21

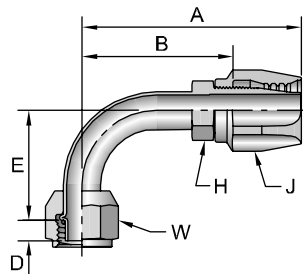
Female Tube-O - Swivel - 90° Elbow - Short Pilot



#												
Part Number	Thread	Hose I.D.	A	D	E	H	J	W	B			
25T21-6-6	3/8 5/8x18	5/16	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	13/32	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	1/2	3.33	85	0.18	4,7	1.50	38	3/4	1-1/16	1-1/16	2.33 59

## 25L21

Female Tube-O - Swivel - 90° Elbow - Long Pilot



#												
Part Number	Thread	Hose I.D.	A	D	E	H	J	W	B			
25L21-6-6	3/8 5/8x18	5/16	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	13/32	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	1/2	2.83	72	0.38	9,8	1.75	44	3/4	1-1/16	1-1/16	1.83 46

## 21 Series

### Hose Assembly Instructions

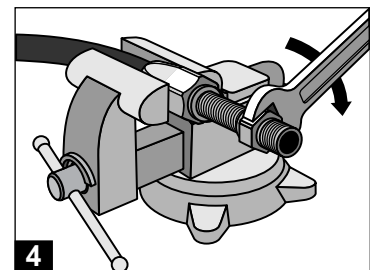
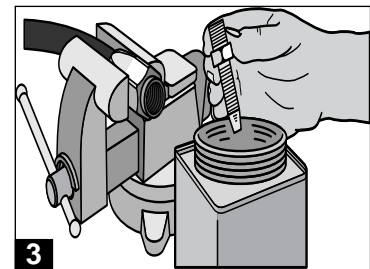
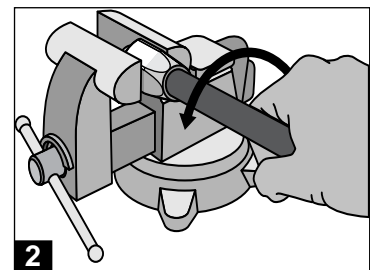
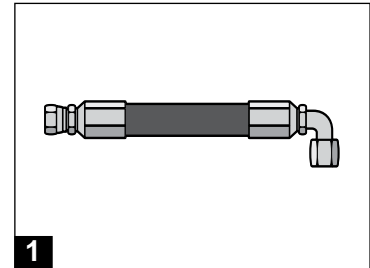
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut 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 ½ turn.
3. Oil inside of hose and nipple threads liberally with Hoze-Oil. (See Section C). 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 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 Section C) 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  
<http://www.parkerhose.com>



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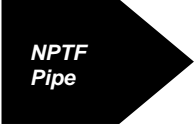
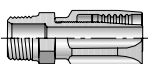

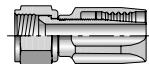

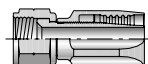

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 <p><b>NPTF Pipe</b></p>	<p>20122      B-160</p>  <p><i>Male - Rigid</i></p>	 <p><b>JIC 37°</b></p>	<p>20622      B-160</p>  <p><i>Female - Swivel</i></p>	 <p><b>SAE 45°</b></p>	<p>20822      B-160</p>  <p><i>Female - Swivel</i></p>
 <p><b>Assembly Instructions</b></p>	<p>22 Series      B-161 Assembly Instructions</p>				

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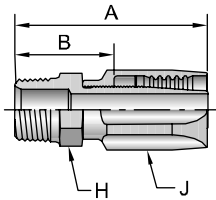
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## 20122

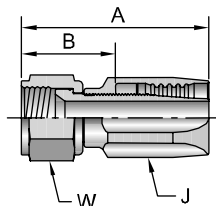
### Male NPTF Pipe - Rigid



# Part Number	Thread inch	Hose I.D. inch	A		H	J	B		Additional Material Brass (B)
			inch	mm	inch	inch	inch	mm	
20122-2-4	1/8x27	3/16	1.72	44	7/16	5/8	0.94	24	
20122-4-4	1/4x18	3/16	1.92	49	9/16	5/8	1.92	29	•
20122-4-5	1/4x18	1/4	2.01	51	9/16	11/16	1.18	30	•
20122-4-6	1/4x18	5/16	2.11	54	9/16	13/16	1.19	30	•
20122-6-8	3/8x18	13/32	2.49	63	3/4	15/16	1.40	36	•
20122-12-12	3/4x14	5/8	3.25	83	1-1/16	1-1/4	1.75	44	•

## 20622

### Female JIC 37° - Swivel

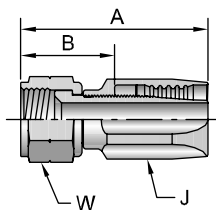


# Part Number	Thread inch		Hose I.D. inch	A		J	W	B		Additional Material Brass (B)
				inch	mm	inch	inch	inch	mm	
20622-4-4~	1/4	7/16x20	3/16	1.74	44	5/8	9/16	0.96	24	•
20622-5-5~	5/16	1/2x20	1/4	1.91	49	11/16	5/8	1.08	27	•
20622-6-6	3/8	9/16x18	5/16	2.05	52	13/16	11/16	1.13	29	•
20622-8-8~	1/2	3/4x16	13/32	2.55	65	15/16	7/8	1.46	37	•
20622-10-10~	5/8	7/8x14	1/2	2.80	71	1-1/8	1	1.58	40	•
20622-12-12	3/4	1-1/16x12	5/8	3.15	80	1-1/4	1-1/8	1.65	42	•
20622-16-16	1	1-5/16x12	7/8	2.84	72	1-7/16	1-1/2	1.65	42	•
20622-20-20	1-1/4	1-5/8x12	1-1/8	3.00	76	1-3/4	2	1.72	44	•
20622-24-24	1-1/2	1-7/8x12	1-3/8	3.30	84	2	2-1/4	1.93	49	•
20622-32-32	2	2-1/2x12	1-13/16	4.05	103	2-1/2	2-7/8	2.31	59	•
20622-40-40	2-1/2	3x12	2-3/8	4.17	106	3-1/8	3-3/8	2.36	60	•

~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.

## 20822

### Female SAE 45° - Swivel



# Part Number	Thread inch		Hose I.D. inch	A		J	W	B		Additional Material Brass (B)
				inch	mm	inch	inch	inch	mm	
20822-4-4	1/4	7/16x20	3/16	1.74	44	5/8	9/16	0.96	24	•
20822-5-5	5/16	1/2x20	1/4	1.91	49	11/16	5/8	1.08	27	•
20822-6-6	3/8	5/8x18	5/16	2.08	53	13/16	3/4	1.16	29	•
20822-8-8	1/2	3/4x16	13/32	2.45	62	15/16	7/8	1.36	35	•
20822-10-10	5/8	7/8x14	1/2	2.80	71	1-1/8	1	1.58	40	•
20822-12-12	3/4	1-1/16x14	5/8	3.10	79	1-1/4	1-1/4	1.60	41	•

Notch in nut for SAE (45°) flare.



## 22 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  $\frac{1}{2}$  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. (See Section C). **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  $\frac{1}{32}$ " (.784mm) 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.

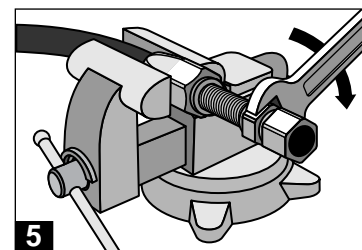
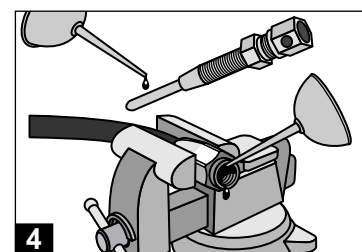
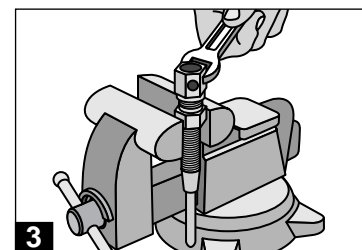
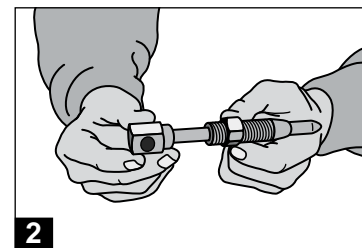
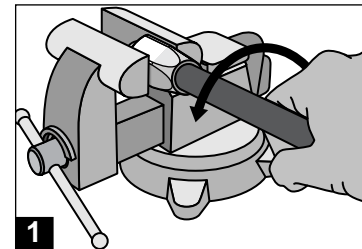
**Special Instructions for Refrigerant Hose.** Oil inside of hose and nipple threads liberally with the same oil used in refrigeration system. **Do not oil hose cover.** Do not allow hose to contact any petroleum base fluids.

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

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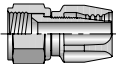

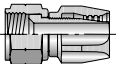

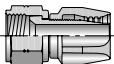
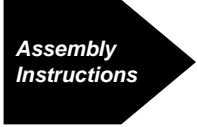
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 <p><b>JIC 37°</b></p>	<p>20623      B-164</p>  <p><i>Female - Swivel</i></p>	 <p><b>SAE 45°</b></p>	<p>20823      B-164</p>  <p><i>Female - Swivel</i></p>	 <p><b>PTT 30°</b></p>	<p>23223      B-164</p>  <p><i>Female - Swivel</i></p>
 <p><b>Assembly Instructions</b></p>	<p>23 Series      B-165 Assembly Instructions</p>				

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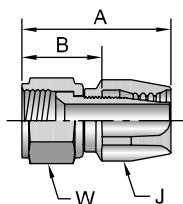
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## 20623

### Female JIC 37° - Swivel

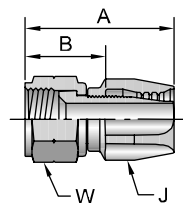






#											
Part Number	Thread		Hose I.D.	A		J	W	B			
	inch		inch	inch	mm	inch	inch	inch	mm	inch	mm
20623-4-4~	1/4	7/16x20	3/16	1.63	41	9/16	9/16	0.96	24		
20623-5-5~	5/16	1/2x20	1/4	1.70	43	5/8	5/8	0.96	24		
20623-6-6	3/8	9/16x18	5/16	1.91	49	3/4	11/16	1.13	29		
20623-8-8~	1/2	3/4x16	13/32	2.16	55	7/8	7/8	1.24	31		
20623-10-10~	5/8	7/8x14	1/2	2.37	60	1-1/16	1	1.37	35		
20623-12-12	3/4	1-1/16x12	5/8	2.51	64	1-1/4	1-1/4	1.43	36		
20623-16-16	1	1-5/16x12	7/8	2.50	64	1-7/16	1-1/2	1.51	38		
20623-20-20	1-1/4	1-5/8x12	1-1/8	2.75	70	1-3/4	2	1.71	43		
20623-24-24	1-1/2	1-7/8x12	1-3/8	3.00	76	2	2-1/4	1.90	48		
20623-32-32	2	2-1/2x12	1-13/16	3.57	91	2-3/8	2-7/8	2.28	58		

~ 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.

## 20823

### Female SAE 45° - Swivel

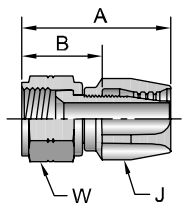


#				A				B		Additional Material Brass (B)
Part Number	Thread inch		Hose I.D. inch	inch	mm	inch	inch	inch	mm	
20823-4-4	1/4	7/16x20	3/16	1.68	43	9/16	9/16	1.01	26	●
20823-6-6	3/8	5/8x18	5/16	1.94	49	3/4	3/4	1.16	29	●
20823-8-8	1/2	3/4x16	13/32	2.08	53	7/8	7/8	1.16	29	●
20823-10-10	5/8	7/8x14	1/2	2.33	59	1-1/16	1	1.33	34	●
20823-12-12	3/4	1-1/16x14	5/8	2.47	63	1-1/4	1-1/4	1.39	35	●

Notch on nut signifies SAE 45° flared fitting.

## 23223

### Female PTT 30° - Swivel



#									
Part Number	Thread		Hose I.D.	A		J	W	B	
	inch		inch	inch	mm	inch	inch	inch	mm
23223-16-16	1	1-5/16x14	7/8	2.29	58	1-7/16	1-1/2	1.30	33
23223-20-20	1-1/4	1-5/8x14	1-1/8	2.62	67	1-3/4	2	1.58	40

## 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  $\frac{1}{2}$  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. (See Section C). **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  $\frac{1}{32}$ " (.784mm) 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.

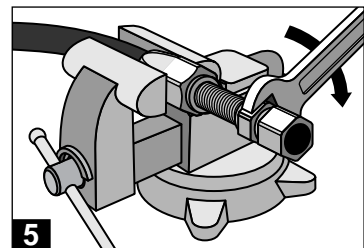
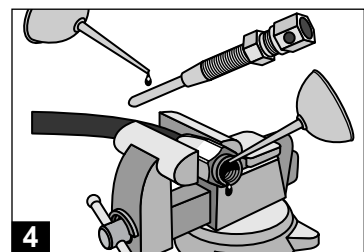
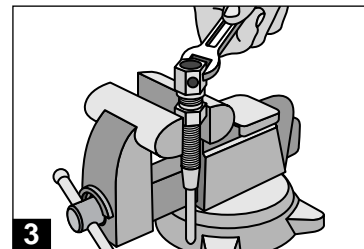
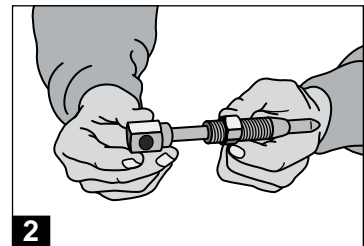
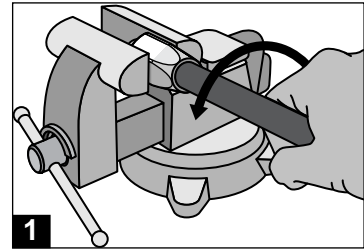
**Special Instructions for Refrigerant Hose.** Oil inside of hose and nipple threads liberally with the same oil used in refrigeration system. **Do not oil hose cover.** Do not allow hose to contact any petroleum base fluids.

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

PHONE: 440 / 943-5700

FAX: 440 / 943-3129

<http://www.parkerhose.com>



A

B

C

D

E

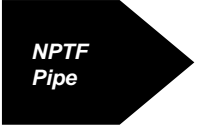
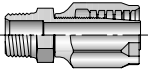
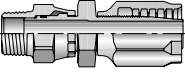
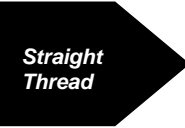
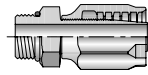

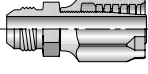
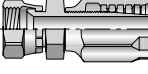
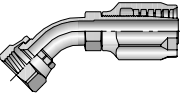
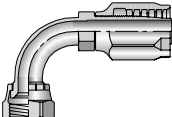
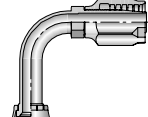

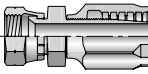

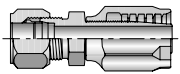
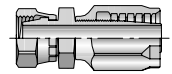

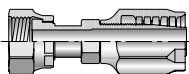
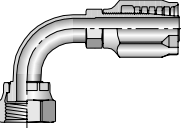
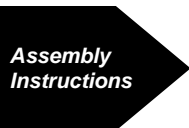
A

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 <p><b>NPTF Pipe</b></p>	<p>20130 B-168</p>  <p><i>Male - Rigid</i></p>	<p>21330 B-168</p>  <p><i>Male - Swivel</i></p>	 <p><b>Straight Thread</b></p>	<p>20530 B-168</p>  <p><i>Male - Rigid</i></p>	 <p><b>JIC 37°</b></p>
<p>20330 B-169</p>  <p><i>Male - Rigid</i></p>	<p>20630 B-169</p>  <p><i>Female - Swivel</i></p>	<p>23730 B-170</p>  <p><i>Female - Swivel 45° Elbow - Short</i></p>	<p>23930 B-170</p>  <p><i>Female - Swivel 90° Elbow - Short</i></p>	<p>24130 B-170</p>  <p><i>Female - Swivel 45° Elbow - Long</i></p>	 <p><b>SAE</b></p>
<p>20830 B-170</p>  <p><i>Female - Swivel</i></p>	 <p><b>Flareless</b></p>	<p>21130 B-171</p>  <p><i>Male - Rigid</i></p>	<p>21230 B-171</p>  <p><i>Female - Swivel</i></p>	 <p><b>Seal-Lok® O-Ring Face Seal</b></p>	<p>2JS30 B-171</p>  <p><i>Female - Swivel Long</i></p>
<p>2J930 B-171</p>  <p><i>Female - Swivel 90° Elbow - Short</i></p>	 <p><b>Assembly Instructions</b></p>	<p>30 Series Assembly Instructions</p>			

A

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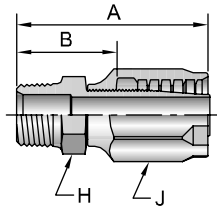
D

E



## 20130

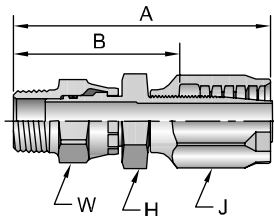
### Male NPTF Pipe - Rigid








#								
Part Number	Thread inch	Hose I.D. inch	A		H	J	B	
			inch	mm	inch	inch	inch	mm
20130-2-3	1/8x27	3/16	2.01	51	1/2	3/4	1.23	31
20130-2-4	1/8x27	1/4	2.19	56	9/16	3/4	1.23	31
20130-4-4	1/4x18	1/4	2.38	60	9/16	3/4	1.42	36
20130-4-6	1/4x18	3/8	2.58	66	11/16	15/16	1.44	37
20130-6-4	3/8x18	1/4	2.38	60	3/4	3/4	1.41	36
20130-6-6	3/8x18	3/8	2.58	66	3/4	15/16	1.44	37
20130-6-8	3/8x18	1/2	2.92	74	7/8	1-1/16	1.58	40
20130-8-6	1/2x14	3/8	2.77	70	7/8	15/16	1.63	41
20130-8-8	1/2x14	1/2	3.11	79	7/8	1-1/16	1.77	45
20130-12-12	3/4x14	3/4	3.20	81	1-1/8	1-3/8	1.77	45
20130-16-16	1x11-1/2	1	3.74	95	1-3/8	1-3/4	2.03	52
20130-20-20	1-1/4x11-1/2	1-1/4	4.59	117	1-3/4	2-1/4	2.46	62

## 21330

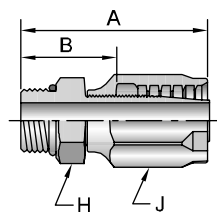
### Male NPTF Pipe - Swivel







#			A					B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	inch	mm
21330-4-4	1/4x18	1/4	3.42	87	9/16	3/4	5/8	2.46	62
21330-6-6	3/8x18	3/8	3.67	93	7/8	15/16	3/4	2.53	64
21330-8-8	1/2x14	1/2	4.20	107	1	1-1/16	7/8	2.86	73
21330-12-12	3/4x14	3/4	4.30	109	1	1-3/8	1	2.87	73
21330-16-16	1x11-1/2	1	4.93	125	1-1/2	1-3/4	1-1/2	3.22	82

## 20530

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



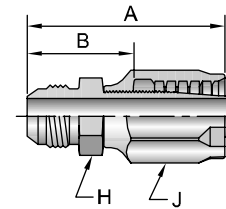
#				A				B	
Part Number	Thread inch		Hose I.D. inch	inch	mm	inch	inch	inch	mm
20530-4-4	1/4	7/16x20	1/4	2.22	56	9/16	3/4	1.26	32
20530-6-6	3/8	9/16x18	3/8	2.45	62	11/16	15/16	1.31	33
20530-8-8	1/2	3/4x16	1/2	2.87	73	7/8	1-1/16	1.53	39

O-Rings are not compatible with Phosphate Ester fluids.

## 20330

Male JIC 37° - Rigid

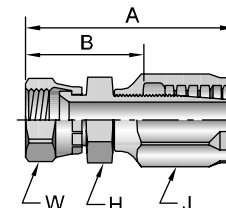
# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	B	
	inch			inch	mm			inch	mm
20330-4-4	1/4	7/16x20	1/4	2.37	60	9/16	3/4	1.41	36
20330-5-4	5/16	1/2x20	1/4	2.37	60	9/16	3/4	1.41	36
20330-6-4	3/8	9/16x18	1/4	2.38	60	5/8	3/4	1.42	36
20330-6-6	3/8	9/16x18	3/8	2.58	66	3/4	15/16	1.44	37
20330-8-6	1/2	3/4x16	3/8	2.68	68	13/16	15/16	1.54	39
20330-8-8	1/2	3/4x16	1/2	3.02	77	7/8	1-1/16	1.68	43
20330-10-8	5/8	7/8x14	1/2	3.12	79	15/16	1-1/16	1.78	45
20330-10-10	5/8	7/8x14	5/8	3.29	84	15/16	1-1/4	1.83	46
20330-12-12	3/4	1-1/16x12	3/4	3.31	84	1-1/8	1-3/8	1.88	48
20330-16-16	1	1-5/16x12	1	3.71	94	1-3/8	1-3/4	2	51



## 20630

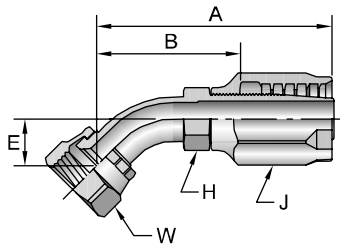
Female JIC 37° - Swivel

# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	W inch	B		Additional Material Stainless Steel (C)
	inch			inch	mm				inch	mm	
20630-4-3	1/4	7/16x20	3/16	2.27	58	9/16	3/4	9/16	1.49	38	
20630-4-4	1/4	7/16x20	1/4	2.45	62	9/16	3/4	9/16	1.49	38	•
20630-5-4	5/16	1/2x20	1/4	2.52	64	5/8	3/4	5/8	1.56	40	
20630-6-4	3/8	9/16x18	1/4	2.54	65	11/16	3/4	11/16	1.58	40	•
20630-6-6	3/8	9/16x18	3/8	2.74	70	11/16	15/16	11/16	1.60	41	•
20630-8-6	1/2	3/4x16	3/8	2.86	73	7/8	15/16	7/8	1.72	44	•
20630-8-8	1/2	3/4x16	1/2	3.20	81	7/8	1-1/16	7/8	1.86	47	•
20630-10-8	5/8	7/8x14	1/2	3.30	84	1	1-1/16	1	1.96	50	
20630-10-10	5/8	7/8x14	5/8	3.54	90	1	1-1/4	1	2.08	53	
20630-10-12	5/8	7/8x14	3/4	3.40	86	1-1/8	1-3/8	1	1.97	50	
20630-12-8	3/4	1-1/16x12	1/2	3.47	88	1-1/4	1-1/16	1-1/4	2.13	54	
20630-12-10	3/4	1-1/16x12	5/8	3.64	92	1-1/4	1-1/4	1-1/4	2.18	55	
20630-12-12	3/4	1-1/16x12	3/4	3.50	89	1-1/4	1-3/8	1-1/4	2.07	53	•
20630-14-12	7/8	1-3/16x12	3/4	3.50	89	1-3/8	1-3/8	1-3/8	2.07	53	
20630-16-12	1	1-5/16x12	3/4	3.59	91	1-1/2	1-3/4	1-1/2	2.16	55	
20630-16-16	1	1-5/16x12	1	3.94	100	1-1/2	1-3/4	1-1/2	2.23	57	
20630-20-16	1-1/4	1-5/8x12	1	4.17	106	2	1-3/4	2	2.46	62	
20630-20-20	1-1/4	1-5/8x12	1-1/4	4.96	126	2	2-1/4	2	2.83	72	
20630-24-24	1-1/2	1-7/8x12	1-1/2	5.26	134	2-1/4	2-1/2	2-1/4	3.05	77	
20630-32-32	2	2-1/2x12	2	6.42	163	2-7/8	3	2-7/8	3.92	100	



## 23730

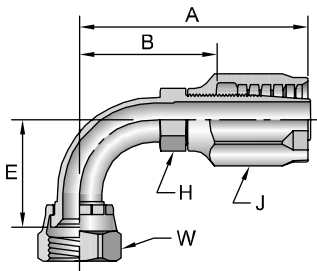
### Female JIC 37° - Swivel - 45° Elbow - Short Drop



#												
Part Number	Thread	Hose I.D.	A	E	H	J	W	B				
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
23730-4-4	1/4 7/16x20	1/4	2.70	69	0.33	8	7/16	3/4	9/16	1.74	44	
23730-6-6	3/8 9/16x18	3/8	3.01	76	0.39	10	9/16	15/16	11/16	1.87	47	
23730-8-8	1/2 3/4x16	1/2	3.55	90	0.55	14	11/16	1-1/16	7/8	2.21	56	
23730-10-8	5/8 7/8x14	1/2	3.61	92	0.65	17	13/16	1-1/16	1	2.27	58	
23730-12-12	3/4 1-1/16x12	3/4	3.93	100	0.79	20	15/16	1-3/8	1-1/4	2.50	64	
23730-16-16	1 1-5/16x12	1	4.51	115	0.90	23	1-1/4	1-3/4	1-1/2	2.80	71	

## 23930

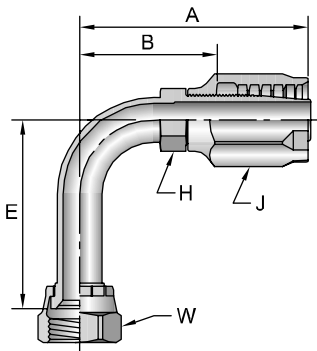
### Female JIC 37° - Swivel - 90° Elbow - Short Drop



#												
Part Number	Thread	Hose I.D.	A	E	H	J	W	B				
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
23930-4-4	1/4 7/16x20	1/4	2.52	64	0.83	21	7/16	3/4	9/16	1.56	40	
23930-6-6	3/8 9/16x18	3/8	2.91	74	0.85	22	9/16	15/16	11/16	1.77	45	
23930-8-6	1/2 3/4x16	3/8	3.04	77	1.09	28	11/16	15/16	7/8	1.90	48	
23930-8-8	1/2 3/4x16	1/2	3.32	84	1.09	28	11/16	1-1/16	7/8	1.98	50	
23930-10-8	5/8 7/8x14	1/2	3.46	88	1.24	31	13/16	1-1/16	1	2.12	54	
23930-12-12	3/4 1-1/16x12	3/4	3.86	98	1.81	46	15/16	1-3/8	1-1/4	2.43	62	
23930-16-16	1 1-5/16x12	1	4.48	114	2.14	54	1-1/4	1-3/4	1-1/2	2.77	70	

## 24130

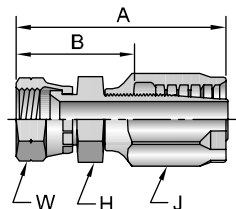
### Female JIC 37° - Swivel - 90° Elbow - Long Drop



#												
Part Number	Thread	Hose I.D.	A	E	H	J	W	B				
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
24130-6-6	3/8 9/16x18	3/8	2.90	74	2.18	55	9/16	15/16	11/16	1.76	45	
24130-8-8	1/2 3/4x16	1/2	3.39	86	2.43	62	11/16	1-1/16	7/8	2.05	52	

## 20830

### Female SAE 45° - Swivel



#												
Part Number	Thread	Hose I.D.	A	H	J	W	B					
	inch	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
20830-6-6	3/8 5/8x18	3/8	2.81	71	3/4	15/16	3/4	1.67	42			

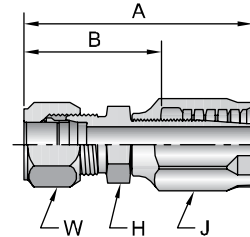
Notch on nut signifies SAE 45° flare.

## 21130

**Male Ferulok Flareless - Rigid -  
(24° Cone with Nut and Ferrule)**

#				A		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	inch	mm
21130-16-16	1 1-5/16x12	1		4.15	105	1-3/8	1-3/4	1-1/2	2.44	62

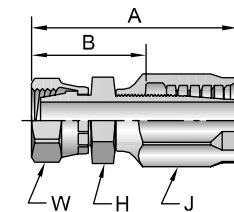
The Parker Ferrul-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on-the-job repairs. For additional information see Ferrule-Fix installation instructions in the Technical Section.



## 21230

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

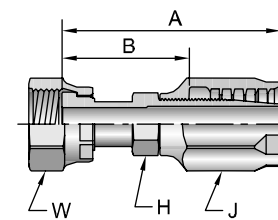
#				A		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	inch	mm
21230-4-4	1/4 7/16x20	1/4		2.62	67	9/16	3/4	9/16	1.66	42
21230-6-6	3/8 9/16x18	3/8		2.94	75	11/16	15/16	11/16	1.80	46
21230-8-6	1/2 3/4x16	3/8		3.16	80	7/8	15/16	7/8	2.02	51
21230-8-8	1/2 3/4x16	1/2		3.44	87	7/8	1-1/16	7/8	2.10	53
21230-12-12	3/4 1-1/16x12	3/4		3.86	98	1-1/4	1-3/8	1-1/4	2.43	62



## 2JS30

**Female Seal-Lok® - Swivel - Long**  
ISO 12151-1 - SWSB

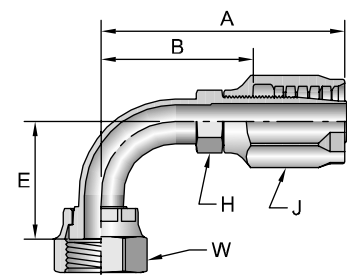
#				A		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	inch	mm
2JS30-4-4	1/4 9/16x18	1/4		2.62	67	9/16	3/4	11/16	1.66	42
2JS30-6-6	3/8 11/16x16	3/8		2.89	73	9/16	15/16	13/16	1.75	44
2JS30-8-8	1/2 13/16x16	1/2		3.32	84	11/16	1-1/16	15/16	1.98	50
2JS30-12-12	3/4 1-3/16x12	3/4		3.65	93	15/16	1-3/8	1-3/8	2.22	56



## 2J930

**Female Seal-Lok® - Swivel - 90° Elbow - Short Drop**  
ISO 12151-1 - SWES90

#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
2J930-4-4	1/4 9/16x18	1/4		2.83	72	0.82	21	7/16	3/4	11/16	1.87	47
2J930-6-6	3/8 11/16x16	3/8		2.91	74	0.90	23	9/16	15/16	13/16	1.77	45
2J930-8-8	1/2 13/16x16	1/2		3.31	84	1.15	29	11/16	1-1/16	15/16	1.97	50
2J930-10-10	5/8 1x14	5/8		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	3/4		3.71	94	1.85	47	15/16	1-3/8	1-3/8	2.28	58

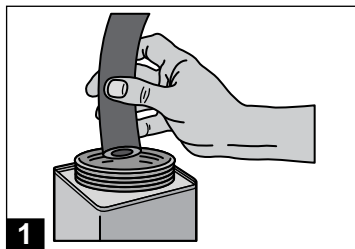


See Accessories Section for O-Rings.

## 30 Series

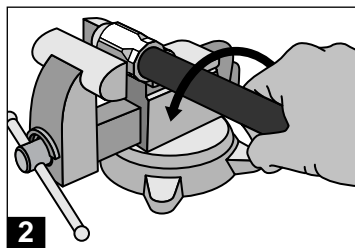
### Hose Assembly Instructions

A



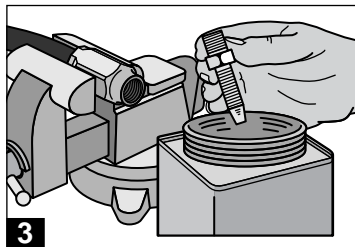
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into Hoze-Oil (See Section C) or heavy oil.

B



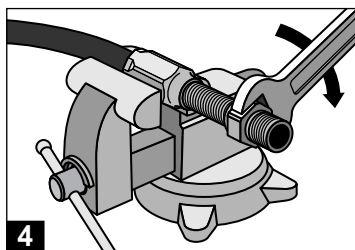
2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.

C



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.

D



4. Screw nipple assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

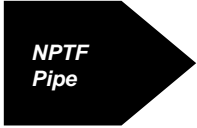
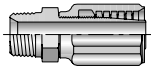
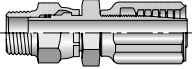

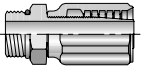

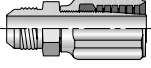
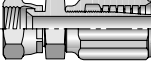
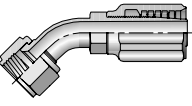
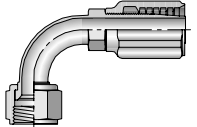
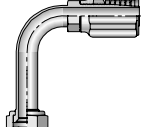

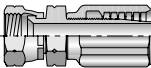

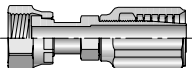
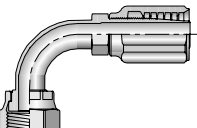
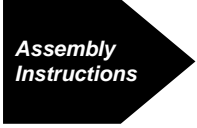
**Note:** Disassemble in reverse order.

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

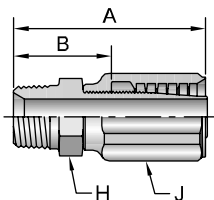
FAX: 440 / 943-3129

<http://www.parkerhose.com>

 <b>NPTF Pipe</b>	20142      B-174  <i>Male - Rigid</i>	21342      B-174  <i>Male - Swivel</i>	 <b>SAE</b>	20542      B-174  <i>Male - Rigid</i>	 <b>JIC 37°</b>
20342      B-175  <i>Male - Rigid</i>	20642      B-175  <i>Female - Swivel</i>	23742      B-176  <i>Female - Swivel 45° Elbow - Short</i>	23942      B-176  <i>Female - Swivel 90° Elbow - Short</i>	24142      B-176  <i>Female - Swivel 45° Elbow - Long</i>	 <b>SAE</b>
20842      B-176  <i>Female - Swivel</i>	 <b>Seal-Lok® O-Ring Face Seal</b>	2JS42      B-177  <i>Female - Swivel Long</i>	2J942      B-177  <i>Female - Swivel 90° Elbow - Short</i>	 <b>Assembly Instructions</b>	42 Series Assembly Instructions      B-178

## 20142

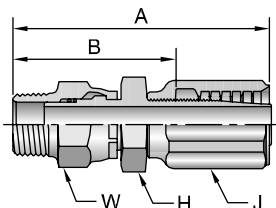
### Male NPTF Pipe - Rigid



#			A		H	J	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	mm
20142-2-3	1/8x27	3/16	2.09	53	1/2	5/8	1.31	33
20142-2-4	1/8x27	1/4	2.17	55	9/16	11/16	1.25	32
20142-4-3	1/4x18	3/16	2.28	58	9/16	5/8	1.50	38
20142-4-4	1/4x18	1/4	2.36	60	9/16	11/16	1.44	37
20142-4-5	1/4x18	5/16	2.39	61	9/16	13/16	1.44	37
20142-4-6	1/4x18	3/8	2.60	66	11/16	7/8	1.45	37
20142-6-6	3/8x18	3/8	2.60	66	3/4	7/8	1.45	37
20142-8-8	1/2x14	1/2	3.02	77	7/8	1	1.69	43
20142-8-10	1/2x14	5/8	3.29	84	15/16	1-1/8	1.87	47
20142-12-12	3/4x14	3/4	3.23	82	1-1/8	1-3/8	1.75	44
20142-16-16	1x11-1/2	1	3.61	92	1-3/8	1-5/8	2.07	53

## 21342

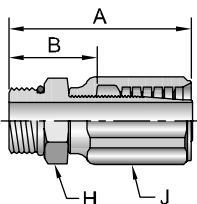
### Male NPTF Pipe - Swivel



#			A		H	J	W	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	inch	mm
21342-4-4	1/4x18	1/4	3.40	86	9/16	11/16	5/8	2.48	63
21342-6-6	3/8x18	3/8	3.69	94	7/8	7/8	3/4	2.54	65

## 20542

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



#			A		H	J	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	inch	mm
20542-4-4	1/4 7/16X20	1/4	2.2	56	9/16	11/16	1.28	33
20542-6-6	3/8 9/16x18	3/8	2.47	63	11/16	7/8	1.32	34
20542-8-8	1/2 3/4X16	1/2	2.78	71	7/8	1	1.45	37

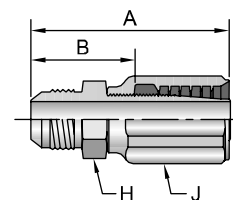
O-Rings are not compatible with Phosphate Ester fluids.



## 20342

Male JIC 37° - Rigid

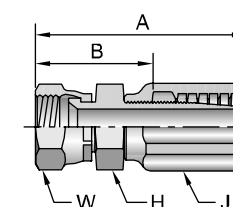
# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	B	
	inch			inch	mm			inch	mm
20342-4-4	1/4	7/16x20	1/4	2.35	60	9/16	11/16	1.43	36
20342-6-4	3/8	9/16x18	1/4	2.36	60	5/8	11/16	1.44	36
20342-6-5	3/8	9/16x18	5/16	2.39	61	5/8	13/16	1.43	36
20342-6-6	3/8	9/16x18	3/8	2.60	66	3/4	7/8	1.45	37
20342-8-6	1/2	3/4x16	3/8	2.70	69	13/16	7/8	1.55	39
20342-8-8	1/2	3/4x16	1/2	2.93	74	7/8	1	1.60	41
20342-10-10	5/8	7/8x14	5/8	3.24	82	15/16	1-1/8	1.82	46
20342-12-12	3/4	1-1/16x12	3/4	3.34	85	1-1/8	1-3/8	1.86	47
20342-16-16	1	1-5/16x12	1	3.58	91	1-3/8	1-5/8	2.04	52



## 20642

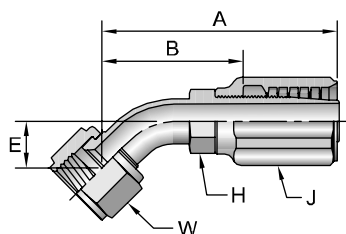
Female JIC 37° - Swivel

# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	W inch	B		Additional Material Stainless Steel (C)
	inch			inch	mm				inch	mm	
20642-4-3	1/4	7/16x20	3/16	2.34	59	9/16	5/8	9/16	1.56	40	
20642-4-4	1/4	7/16x20	1/4	2.43	62	9/16	11/16	9/16	1.51	38	
20642-5-4	5/16	1/2x20	1/4	2.50	64	5/8	11/16	5/8	1.58	40	
20642-6-4	3/8	9/16x18	1/4	2.52	64	11/16	11/16	11/16	1.60	41	
20642-6-5	3/8	9/16x18	5/16	2.55	65	11/16	13/16	11/16	1.60	41	
20642-6-6	3/8	9/16x18	3/8	2.76	70	11/16	7/8	11/16	1.61	41	•
20642-8-6	1/2	3/4x16	3/8	2.88	73	7/8	7/8	7/8	1.73	44	
20642-8-8	1/2	3/4x16	1/2	3.11	79	7/8	1	7/8	1.78	45	•
20642-10-8	5/8	7/8x14	1/2	3.21	82	1	1	1	1.88	48	
20642-10-10	5/8	7/8x14	5/8	3.49	89	1	1-1/8	1	2.07	53	
20642-10-12	5/8	7/8x14	3/4	3.43	87	1-1/8	1-3/8	1	1.95	50	
20642-12-12	3/4	1-1/16x12	3/4	3.53	90	1-1/4	1-3/8	1-1/4	2.05	52	
20642-16-12	1	1-5/16x12	3/4	3.62	92	1-1/2	1-3/8	1-1/2	2.14	54	
20642-16-16	1	1-5/16x12	1	3.81	97	1-1/2	1-5/8	1-1/2	2.27	58	
20642-20-16	1-1/4	1-5/8x12	1	4.04	103	2	1-5/8	2	2.50	64	



## 23742

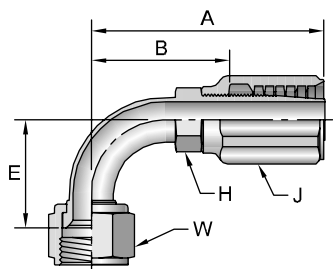
Female JIC 37° - Swivel - 45° Elbow - Short Drop



#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
23742-4-4	1/4 7/16x20	1/4		2.68	68	0.33	8	7/16	11/16	9/16	1.76	45
23742-6-6	3/8 9/16x18	3/8		3.03	77	0.39	10	9/16	7/8	11/16	1.88	48
23742-8-8	1/2 3/4x16	1/2		3.46	88	0.55	14	11/16	1	7/8	2.13	54
23742-16-16	1 1-5/16x12	1		4.38	111	0.90	23	1-1/4	1-5/8	1-1/2	2.84	72

## 23942

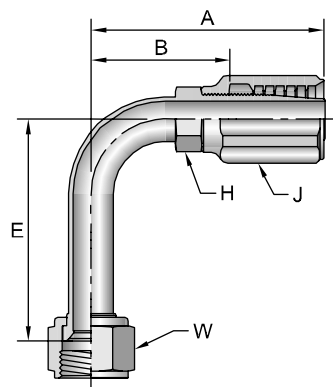
Female JIC 37° - Swivel - 90° Elbow - Short Drop



#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
23942-4-4	1/4 7/16x20	1/4		2.50	64	0.83	21	7/16	11/16	9/16	1.58	40
23942-6-6	3/8 9/16x18	3/8		2.93	74	0.85	22	9/16	7/8	11/16	1.78	45
23942-8-6	1/2 3/4x16	3/8		3.06	78	1.09	28	11/16	7/8	7/8	1.91	49
23942-8-8	1/2 3/4x16	1/2		3.22	82	1.09	28	11/16	1	7/8	1.90	48
23942-10-8	5/8 7/8x14	1/2		3.37	86	1.24	31	13/16	1	1	2.04	52
23942-12-12	3/4 1-1/16x12	3/4		3.89	99	1.81	46	15/16	1-3/8	1-1/4	2.41	61
23942-16-16	1 1-5/16x12	1		4.35	110	2.14	54	1-1/4	1-5/8	1-1/2	2.81	71

## 24142

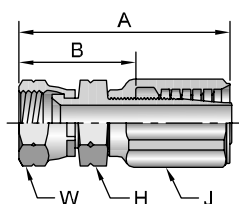
Female JIC 37° - Swivel - 90° Elbow - Long Drop



#				A		E		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	mm	inch	inch	inch	inch	mm
24142-6-6	3/8 9/16x18	3/8		2.92	74	2.18	55	9/16	7/8	11/16	1.77	45
24142-8-8	1/2 3/4x16	1/2		3.30	84	2.43	62	11/16	1	7/8	1.97	50
24142-10-8	5/8 7/8x14	1/2		3.44	87	2.57	65	13/16	1	1	2.11	54

## 20842

Female SAE 45° - Swivel



#				A		H	J	W	B	
Part Number	Thread	Hose I.D.		inch	mm	inch	inch	inch	inch	mm
20842-6-6	3/8 5/8x18	3/8		2.82	72	3/4	7/8	3/4	1.67	42

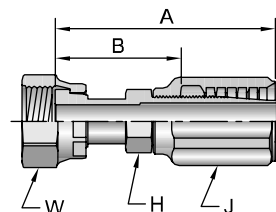
Notch on nut signifies SAE 45° flare.

## 2JS42

### Female Seal-Lok® - Swivel - Long

ISO - 12151-1 - SWSB

#										
Part Number	Thread	Hose I.D.	A		H	J	W	B		
	inch	inch	inch	mm	inch	inch	inch	inch	mm	
2JS42-4-4	1/4	9/16-18	1/4	2.60	66	9/16	11/16	11/16	1.68	43
2JS42-6-6	3/8	11/16x16	3/8	2.91	74	9/16	7/8	13/16	1.76	45
2JS42-8-8	1/2	13/16x16	1/2	3.23	82	11/16	1	15/16	1.90	48

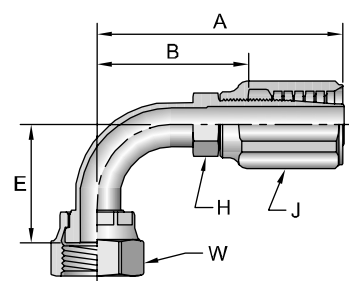


## 2J942

### Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

ISO 12151-1 - SWES90

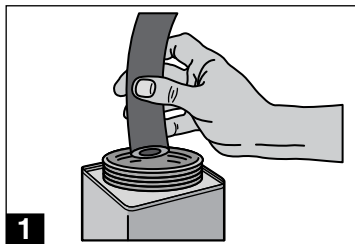
#										
Part Number	Thread	Hose I.D.	A		E	H	J	W	B	
	inch	inch	inch	mm	inch	mm	inch	inch	inch	mm
2J942-4-4	1/4	9/16x18	2.81	71	0.78	20	7/16	11/16	11/16	1.89
2J942-6-6	3/8	11/16x16	2.93	74	0.90	23	9/16	7/8	13/16	1.78
2J942-8-8	1/2	13/16x16	3.22	82	1.15	29	11/16	1	15/16	1.89



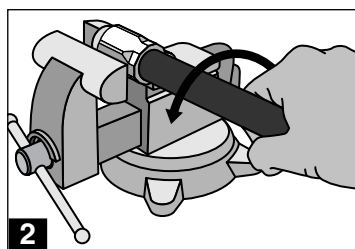
Metric L: Mates with EO "L" Series Fittings.  
 See Accessories Section for O-Rings.

## 42 Series

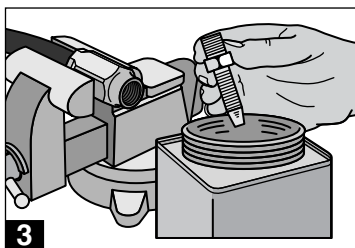
### Hose Assembly Instructions



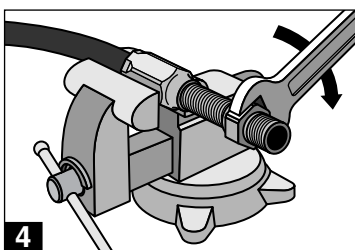
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into Hoze-Oil (See Section C) or heavy 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 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  
<http://www.parkerhose.com>

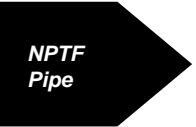
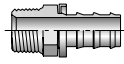
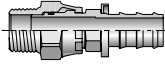


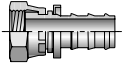


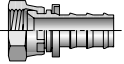
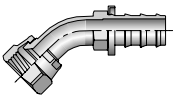
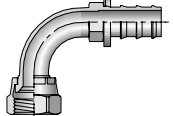
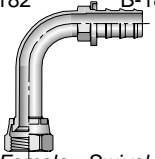

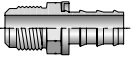
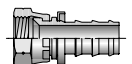
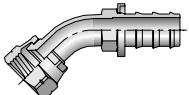
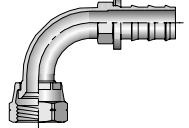

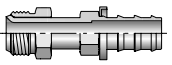
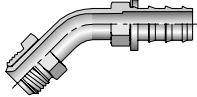
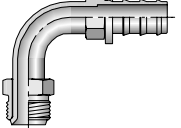


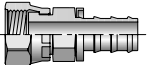
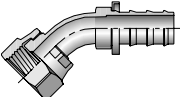
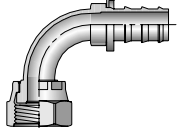
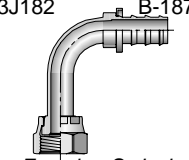

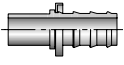

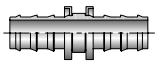
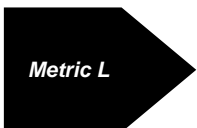
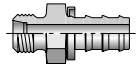
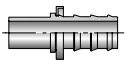

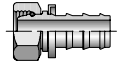

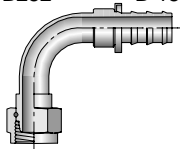

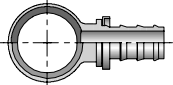
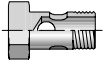


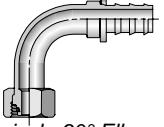
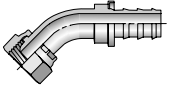
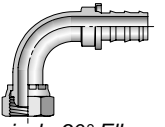
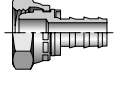

A

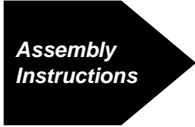
B

C

D

E

A	 <b>NPTF Pipe</b>	30182 B-182  <i>Male - Rigid</i>	31382 B-182  <i>Male - Swivel</i>	30282 B-183  <i>Female - Rigid</i>	 <b>NPSM Pipe</b>	37G82 B-183  <i>Female - Swivel Gasket Joint</i>
	 <b>JIC 37°</b>	30382 B-183  <i>Male - Rigid</i>	30682 B-184  <i>Female - Swivel</i>	33782 B-184  <i>Female - Swivel 45° Elbow - Short</i>	33982 B-184  <i>Female - Swivel 90° Elbow - Short</i>	34182 B-184  <i>Female - Swivel 90° Elbow - Long</i>
B	 <b>SAE</b>	30482 B-185  <i>Male - Rigid</i>	30882 B-185  <i>Female - Swivel</i>	37782 B-185  <i>Female - Swivel 45° Elbow</i>	37982 B-185  <i>Female - Swivel 90° Elbow</i>	 <b>Inverted SAE</b>
	32882 B-186  <i>Male - Swivel</i>	36782 B-186  <i>Male - Swivel 45° Elbow</i>	36982 B-186  <i>Male - Swivel 90° Elbow</i>	32982 B-186  <i>Female - Rigid</i>	 <b>Seal-Lok® O-Ring Face Seal</b>	3JC82 B-187  <i>Female - Swivel Short</i>
C	3J782 B-187  <i>Female - Swivel 45° Elbow</i>	3J982 B-187  <i>Female - Swivel 90° Elbow - Short</i>	3J182 B-187  <i>Female - Swivel 90° Elbow - Long</i>	 <b>Standpipe</b>	33482 B-188  <i>Male - Rigid</i>	 <b>Union</b>
	38282 B-188  <i>Push-Lok Union</i>	 <b>Metric L</b>	3D082 B-188  <i>Male - Rigid</i>	31D82 B-189  <i>Male Standpipe Rigid</i>	 <b>BSP</b>	39282 B-189  <i>Female - Swivel</i>
D	3D982 B-189  <i>Male - Rigid</i>	3B282 B-189  <i>Female - Swivel 90° Elbow</i>	 <b>Banjo</b>	34982 B-190  <i>Metric - Banjo</i>	AM B-190  <i>Banjo Bolt</i>	 <b>Metric L Swivels</b>
	3CA82 B-191  <i>Swivel - 24° Cone</i>	3CF82 B-191  <i>Swivel - 90° Elbow - 24° Cone</i>	3C482 B-191  <i>Swivel - 45° Elbow - Ball Nose</i>	3C582 B-192  <i>Swivel - 90° Elbow - Ball Nose</i>	3C382 B-192  <i>Swivel - Ball Nose</i>	 <b>Kits</b>
E						

Push-Lok Kits  <i>Push-Lok Hose and Fitting Kits</i>	B-193	Push-Lok Merchandiser  <i>Push-Lok Hose and Fitting Display Case</i>	B-194		82 Series Assembly Instructions  <i></i>	B-195
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A

B

C

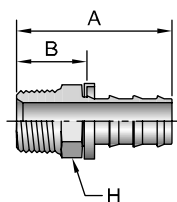
D

E



## 30182

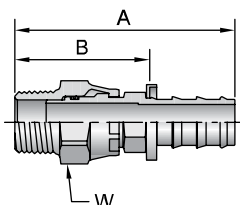
### Male NPTF Pipe - Rigid



# Part Number	Thread inch	Hose I.D. inch	A		H inch	B		Additional Material	
			inch	mm		inch	mm	Brass (B)	Stainless Steel (C)
30182-2-4	1/8x27	1/4	1.39	35	7/16	0.64	16	•	•
30182-4-4	1/4x18	1/4	1.57	40	9/16	0.82	21	•	•
30182-4-6	1/4x18	3/8	1.78	45	9/16	0.88	22	•	•
30182-4-8	1/4x18	1/2	1.93	49	5/8	0.88	22	•	•
30182-6-6	3/8x18	3/8	1.78	45	11/16	0.88	22	•	•
30182-6-8	3/8x18	1/2	1.93	49	11/16	0.88	22	•	•
30182-8-6	1/2x14	3/8	2.03	52	7/8	1.13	29	•	•
30182-8-8	1/2x14	1/2	2.18	55	7/8	1.13	29	•	•
30182-8-10	1/2x14	5/8	2.58	66	7/8	1.13	29	•	•
30182-8-12	1/2x14	3/4	2.58	66	7/8	1.13	29	•	•
30182-12-8	3/4x14	1/2	2.21	56	3/4	1.16	29	•	•
30182-12-10	3/4x14	5/8	2.61	66	1-1/16	1.16	29	•	•
30182-12-12	3/4x14	3/4	2.61	66	1-1/16	1.16	29	•	•
30182-16-16	1x11-1/2	1	3.06	78	1-3/8	1.61	41	•	•

## 31382

### Male NPTF Pipe - Swivel



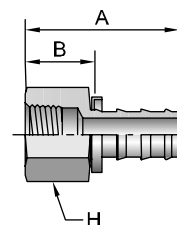
# Part Number	Thread inch	Hose I.D. inch	A		W inch	B		Additional Material Brass (B)
			inch	mm		inch	mm	
31382-4-4	1/4x18	1/4	1.60	41	9/16	0.85	22	
31382-6-6	3/8x18	3/8	1.79	45	11/16	0.89	23	
31382-8-8	1/2x14	1/2	2.20	56	7/8	1.15	29	
31382-8-10	1/2x14	5/8	3.50	90	7/8	2.05	52	•
31382-12-12	3/4x14	3/4	3.70	94	1-1/4	2.25	57	

O-Ring not compatible with Phosphate Ester fluids.

## 30282

### Female NPTF Pipe - Rigid

#			A		H	B		Additional Material Brass (B)
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm	
30282-4-4	1/4x18	1/4	1.56	40	3/4	0.81	21	•
30282-6-6	3/8x18	3/8	1.82	46	7/8	0.92	23	•
30282-8-8	1/2x14	1/2	2.16	55	1-1/16	1.11	28	•

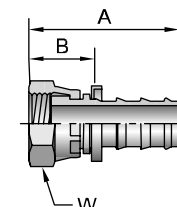


## 37G82

### Female NPSM Pipe - Gasket Joint - Swivel

#				A		W	B	
Part Number	Gasket	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm
37G82-4-4	07G-4	1/4x18	1/4	1.55	39	11/16	0.80	20
37G82-4-6	07G-4	1/4x18	3/8	1.70	43	11/16	0.80	20
37G82-6-6	07G-6	3/8x18	3/8	1.75	44	7/8	0.85	22
37G82-8-8	07G-8	1/2x14	1/2	2.07	53	1	1.02	26
37G82-8-10	07G-8	1/2x14	5/8	2.47	63	1	1.02	26
37G82-12-12	07G-12	3/4x14	3/4	2.54	65	1-1/4	1.09	28

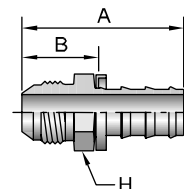
Textile gasket included with fitting.



## 30382

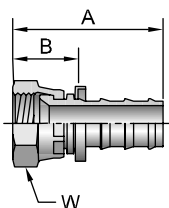
### Male JIC 37° - Rigid

#			A		H	B		Additional Material Brass (B)
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm	
30382-4-4	1/4 7/16x20	1/4	1.56	40	1/2	0.81	21	
30382-5-4	5/16 1/2x20	1/4	1.59	40	9/16	0.84	21	
30382-6-6	3/8 9/16x18	3/8	1.78	45	5/8	0.88	22	•
30382-8-8	1/2 3/4x16	1/2	2.06	52	3/4	1.01	26	
30382-10-10	5/8 7/8x14	5/8	2.62	67	7/8	1.17	30	
30382-12-12	3/4 1-1/16x12	3/4	2.72	69	1-1/8	1.27	32	



## 30682

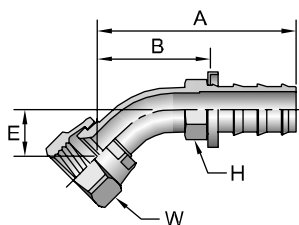
### Female JIC 37° - Swivel



# Part Number	Thread inch		Hose I.D. inch	A inch mm		W inch	B inch mm		Additional Material Brass (B) Stainless Steel (C)	
30682-4-4	1/4	7/16x20	1/4	1.52	39	9/16	0.77	20	•	•
30682-5-4	5/16	1/2x20	1/4	1.58	40	5/8	0.83	21	•	•
30682-5-6	5/8	1/2x20	3/8	1.72	44	5/8	0.82	21	•	•
30682-6-4	3/8	9/16x18	1/4	1.61	41	11/16	0.86	22	•	•
30682-6-6	3/8	9/16x18	3/8	1.75	44	11/16	0.85	22	•	•
30682-6-8	3/8	9/16x18	1/2	1.90	48	11/16	0.85	22	•	•
30682-8-6	1/2	3/4x16	3/8	1.87	47	7/8	0.97	25	•	•
30682-8-8	1/2	3/4x16	1/2	2.02	51	7/8	0.97	25	•	•
30682-10-8	5/8	7/8x14	1/2	2.14	54	1	1.09	28	•	•
30682-10-10	5/8	7/8x14	5/8	2.54	65	1	1.09	28	•	•
30682-12-12	3/4	1-1/16x12	3/4	2.65	67	1-1/4	1.20	30	•	•
30682-16-16	1	1-5/16x12	1	2.77	70	1-1/2	1.32	34	•	•

## 33782

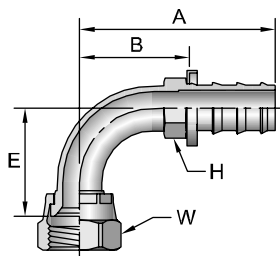
### Female JIC 37° - Swivel - 45° Elbow - Short Drop



# Part Number	Thread inch		Hose I.D. inch	A inch mm		E inch mm		H inch	W inch	B inch mm	
33782-4-4	1/4	7/16x20	1/4	1.74	44	0.39	10	7/16	9/16	0.99	25
33782-6-6	3/8	9/16x18	3/8	1.99	51	0.43	11	1/2	11/16	1.09	28
33782-8-8	1/2	3/4x16	1/2	2.58	66	0.55	14	5/8	7/8	1.53	39
33782-10-10	5/8	7/8x14	5/8	3.03	77	0.65	17	3/4	1	1.58	40

## 33982

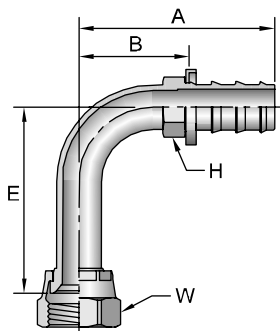
### Female JIC 37° - Swivel - 90° Elbow - Short Drop



# Part Number	Thread inch		Hose I.D. inch	A inch mm		E inch mm		H inch	W inch	B inch mm	
33982-4-4	1/4	7/16x20	1/4	1.55	39	0.83	21	---	9/16	0.80	20
33982-6-6	3/8	9/16x18	3/8	1.85	47	0.91	23	---	11/16	0.95	24
33982-8-8	1/2	3/4x16	1/2	2.33	59	1.09	28	5/8	7/8	1.28	33
33982-10-10	5/8	7/8x14	5/8	2.88	73	1.24	31	3/4	1	1.43	36
33982-12-12	3/4	1-1/16x12	3/4	3.26	83	1.81	46	7/8	1-1/4	1.81	46

## 34182

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

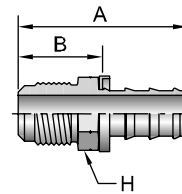


# Part Number	Thread inch		Hose I.D. inch	A inch mm		E inch mm		H inch	W inch	B inch mm	
34182-4-4	1/4	7/16x20	1/4	1.79	45	1.80	46	7/16	9/16	1.04	26
34182-6-6	3/8	9/16x18	3/8	1.97	50	2.18	55	1/2	11/16	1.07	27

## 30482

Male SAE 45° - Rigid

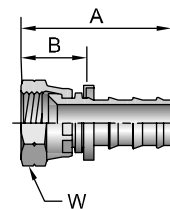
#											
Part Number	Thread		Hose I.D.	A		H	B				
	inch		inch	inch	mm	inch	inch	mm			
30482-4-4B	1/4	7/16x20	1/4	1.51	38	7/16	0.76	19			
30482-5-4B	5/16	1/2x20	1/4	1.61	41	9/16	0.86	22			
30482-6-6B	3/8	5/8x18	3/8	1.84	47	5/8	0.94	24			
30482-8-8B	1/2	3/4x16	1/2	2.15	55	3/4	1.10	28			



## 30882

Female SAE 45° - Swivel

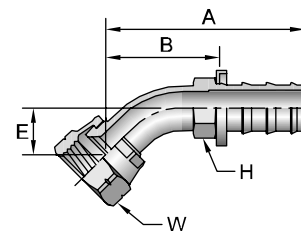
#											
Part Number	Thread		Hose I.D.	A		W	B		Additional Material Brass (B)		
	inch		inch	inch	mm	inch	inch	mm			
30882-4-4	1/4	7/16x20	1/4	1.52	39	9/16	0.77	20	•		
30882-5-4	5/16	1/2x20	1/4	1.58	40	5/8	0.83	21	•		
30882-6-6	3/8	5/8x18	3/8	1.81	46	3/4	0.91	23	•		
30882-8-6	1/2	3/4x16	3/8	1.87	47	7/8	0.97	25	•		
30882-8-8	1/2	3/4x16	1/2	2.02	51	7/8	0.97	25	•		
30882-10-10	5/8	7/8x14	5/8	2.54	65	1	1.09	28	•		
30882-12-12	3/4	1-1/16x14	3/4	2.65	67	1-1/4	1.20	30	•		



## 37782

Female SAE 45° - Swivel - 45° Elbow

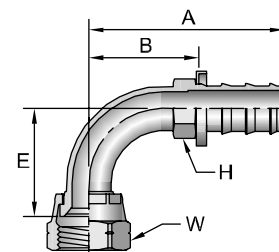
#											
Part Number	Thread		Hose I.D.	A		E		H	W	B	
	inch		inch	inch	mm	inch	mm	inch	inch	inch	mm
37782-4-4	1/4	7/16x20	1/4	1.79	45	0.33	8	7/16	9/16	1.04	26
37782-6-6	3/8	5/8x18	3/8	2.08	53	0.39	10	1/2	3/4	1.18	30
37782-8-8	1/2	3/4x16	1/2	2.58	66	0.55	14	5/8	7/8	1.53	39



## 37982

Female SAE 45° - Swivel - 90° Elbow

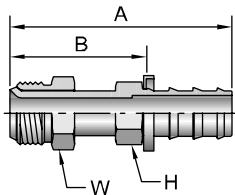
#											
Part Number	Thread		Hose I.D.	A		E		H	W	B	
	inch		inch	inch	mm	inch	mm	inch	inch	inch	mm
37982-4-4	1/4	7/16x20	1/4	1.60	41	0.83	21	7/16	9/16	0.85	22
37982-6-6	3/8	5/8x18	3/8	1.98	50	0.85	22	1/2	3/4	1.08	27
37982-8-8	1/2	3/4x16	1/2	2.33	59	1.09	28	5/8	7/8	1.28	33



Notch in nut signifies 45° flare.

## 32882

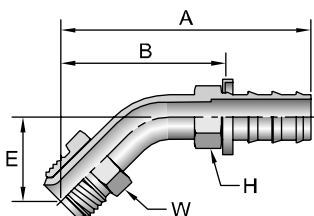
### Male Inverted SAE 45° - Swivel



#									
Part Number	Thread		Hose I.D.	A		H	W	B	
	inch		inch	inch	mm	inch	inch	inch	mm
32882-3-4	3/16	3/8x24	1/4	2.15	55	3/8	3/8	1.40	36
32882-4-4	1/4	7/16x24	1/4	2.15	55	7/16	7/16	1.40	36
32882-5-4	5/16	1/2x20	1/4	2.31	59	7/16	1/2	1.56	40
32882-6-6	3/8	5/8x18	3/8	2.58	66	1/2	5/8	1.68	43
32882-8-8	1/2	3/4x18	1/2	2.82	72	5/8	3/4	1.77	45
32882-10-10	5/8	7/8x18	5/8	3.34	85	3/4	7/8	1.89	48

## 36782

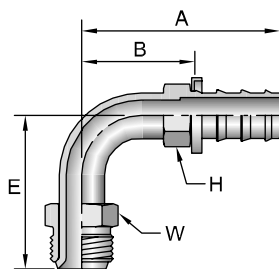
### Male Inverted SAE 45° - Swivel - 45° Elbow



#									
Part Number	Thread		Hose I.D.	A		E	H	W	B
	inch		inch	inch	mm	inch	inch	inch	mm
36782-4-4	1/4	7/16x24	1/4	1.92	49	0.63	16	7/16	1.17
36782-6-6	3/8	5/8x18	3/8	2.64	67	0.94	24	1/2	1.74

## 36982

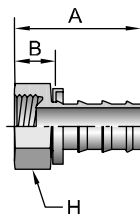
### Male Inverted SAE 45° - Swivel - 90° Elbow



#									
Part Number	Thread		Hose I.D.	A		E	H	W	B
	inch		inch	inch	mm	inch	inch	inch	mm
36982-4-4	1/4	7/16x24	1/4	1.99	51	1.56	40	7/16	1.24
36982-5-4	5/16	1/2x20	1/4	2.17	55	1.65	42	7/16	1.42
36982-6-6	3/8	5/8x18	3/8	2.30	58	1.69	43	1/2	1.40

## 32982

### Female Inverted SAE 45° - Rigid



#								
Part Number	Thread		Hose I.D.	A		H	B	
	inch		inch	inch	mm	inch	inch	mm
32982-4-4B	1/4	7/16x24	1/4	1.19	30	1/2	0.44	11
32982-5-4B	5/16	1/2x20	1/4	1.25	32	9/16	0.50	13
32982-6-6B	3/8	5/8x18	3/8	1.44	37	3/4	0.54	14
32982-8-8B	1/2	3/4x18	1/2	1.62	41	7/8	0.57	14

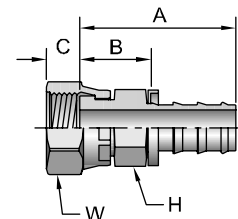
## 3JC82

### Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA

# Part Number	Thread inch	Hose I.D. inch	A		C		H inch	W inch	B		Additional Material	
			inch	mm	inch	mm			inch	mm	Brass (B)	Stainless Steel (C)
3JC82-4-4	1/4	9/16x18	1/4	1.40	36	0.32	8	9/16	11/16	0.65	17	•
3JC82-6-6	3/8	11/16x16	3/8	1.59	40	0.38	10	11/16	13/16	0.69	18	•
3JC82-6-6SM	3/8	11/16x16	3/8	1.59	40	0.38	10	19mm	22mm	0.69	18	
3JC82-8-6	1/2	13/16x16	3/8	1.65	42	0.38	10	13/16	15/16	0.76	19	
3JC82-8-8	1/2	13/16x16	1/2	1.80	46	0.43	11	13/16	15/16	0.75	19	•
3JC82-10-10	5/8	1x14	5/8	2.40	61	0.53	13	15/16	1-1/8	0.95	24	
3JC82-12-12	3/4	1-3/16x12	3/4	2.63	67	0.57	14	1-1/8	1-3/8	1.18	30	•
3JC82-16-16	1	1-7/16x12	1	2.61	66	0.58	15	1-3/8	1-5/8	1.16	29	•

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

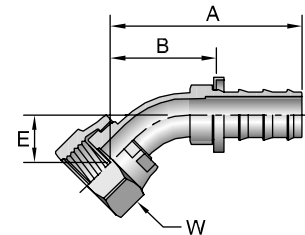


## 3J782

### Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45

# Part Number	Thread inch	Hose I.D. inch	A		E		W inch	B	
			inch	mm	inch	mm		inch	mm
3J782-4-4	1/4	9/16x18	1/4	1.74	44	0.39	10	11/16	0.99
3J782-6-6	3/8	11/16x16	3/8	1.99	51	0.43	11	13/16	1.09
3J782-8-8	1/2	13/16x16	1/2	2.41	61	0.59	15	15/16	1.36

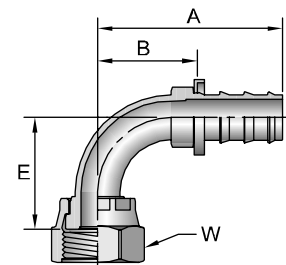


## 3J982

### Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

ISO 12151-1 - SWES90

# Part Number	Thread inch	Hose I.D. inch	A		E		W inch	B	
			inch	mm	inch	mm		inch	mm
3J982-4-4	1/4	9/16x18	1/4	1.55	39	0.83	21	11/16	0.80
3J982-6-6	3/8	11/16x16	3/8	1.85	47	0.91	23	13/16	0.95
3J982-6-8	3/8	11/16x16	1/2	2.09	53	0.91	23	13/16	1.04
3J982-8-6	1/2	13/16x16	3/8	1.94	49	1.14	29	15/16	1.04
3J982-8-8	1/2	13/16x16	1/2	2.16	55	1.14	29	15/16	1.11
3J982-10-10	5/8	1x14	5/8	2.76	70	1.26	32	1-1/8	1.31
3J982-12-12	3/4	1-3/16x12	3/4	3.27	83	1.89	48	1-3/8	1.82



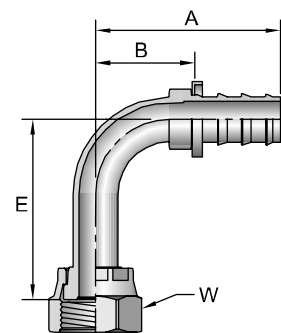
## 3J182

### Female Seal-Lok® - Swivel - 90° Elbow - Long Drop

ISO 12151-1 - SWEL90

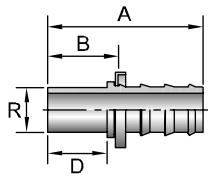
# Part Number	Thread inch	Hose I.D. inch	A		E		W inch	B	
			inch	mm	inch	mm		inch	mm
3J182-6-6	3/8	11/16x16	3/8	1.85	47	2.13	54	13/16	0.95
3J182-8-8	1/2	13/16x16	1/2	2.16	55	2.52	64	15/16	1.11



See Accessories Section for O-Rings.



## 33482

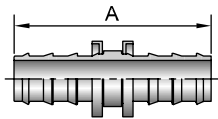
### Male Standpipe - Rigid - (Inch Size Tube O.D.)




# Part Number	 R inch	 Hose I.D. inch	A inch mm		D inch mm		B inch mm		Additional Material	
									Brass (B)	Stainless Steel (C)
33482-4-4	1/4	1/4	1.89	48	1.02	26	1.14	29	•	•
33482-5-4	5/16	1/4	1.93	49	1.08	27	1.18	30	•	•
33482-6-6	3/8	3/8	2.23	57	1.22	31	1.33	34	•	•
33482-8-8	1/2	1/2	2.16	55	0.97	25	1.11	28	•	•
33482-10-10	5/8	5/8	2.62	67	1.00	25	1.17	30	•	•
33482-12-12	3/4	3/4	2.62	67	1.00	25	1.17	30	•	•

## 38282

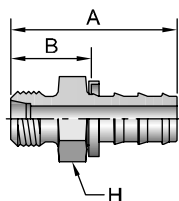
### Push-Lok Union






# Part Number	 Hose I.D. inch	A inch mm		Additional Material Brass (B)
38282-4-4	1/4	1.80	46	•
38282-6-6	3/8	2.15	55	•
38282-8-8	1/2	2.51	64	•
38282-10-10	5/8	3.31	84	•
38282-12-12	3/4	3.31	84	•
38282-16-16	1	3.31	84	•

## 3D082

### Male Metric L - Rigid - (24° Cone)





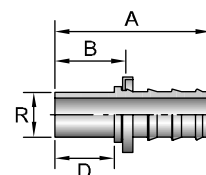
# Part Number	 Thread mm		 Hose I.D. inch	A inch mm		 H mm	B inch mm	
3D082-6-4	6	M12x1,5	1/4	1.34	34	12	0.55	14
3D082-8-4	8	M14x1,5	1/4	1.38	35	14	0.59	15
3D082-10-6	10	M16x1,5	3/8	1.57	40	17	0.63	16
3D082-12-6	12	M18x1,5	3/8	1.61	41	19	0.67	17



## 31D82




### Male Standpipe Metric L - Rigid

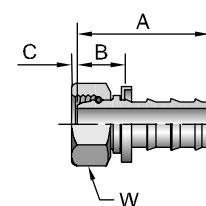
#			A		D		B	
Part Number	R mm	Hose I.D. inch	inch	mm	inch	mm	inch	mm
31D82-6-4	6	1/4	1.73	44	0.87	22	0.98	25
31D82-8-4	8	1/4	1.73	44	0.87	22	0.98	25
31D82-10-6	10	3/8	1.93	49	0.91	23	1.02	26
31D82-12-6	12	3/8	1.93	49	0.91	23	1.06	27
31D82-15-8	15	1/2	2.17	55	0.98	25	1.10	28
31D82-18-10	18	5/8	2.64	67	1.02	26	1.10	28
31D82-22-12	22	3/4	2.72	69	1.10	28	1.22	31



## 39282

### Female BSP Parallel Pipe - Swivel - (60° Cone)



#			A		C			B		Additional Material Brass (B)
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	mm	inch	mm	
39282-4-4	1/4x19	1/4	1.34	34	0.22	6	17	0.55	14	
39282-6-6	3/8x19	3/8	1.50	38	0.26	7	19	0.55	14	•
39282-8-8	1/2x14	1/2	1.77	45	0.28	7	27	1.06	27	
39282-12-12	3/4x14	3/4	2.13	54	0.35	9	36	1.42	36	

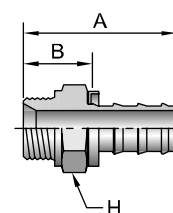


When measuring overall length to the end of the nut, B + C dimensions must be used to calculate cut-off allowances.

## 3D982

### Male BSP Parallel Pipe - Rigid - (60° Cone)




#		A			B	
Part Number	Hose I.D. inch	inch	mm	mm	inch	mm
3D982-2-4	1/4	1.42	36	14	0.63	16
3D982-4-4	1/4	1.61	41	19	0.83	21
3D982-4-6	3/8	1.77	45	19	0.83	21
3D982-6-6	3/8	1.77	45	22	0.87	22
3D982-8-8	1/2	2.09	53	27	0.98	25
3D982-8-10	5/8	2.44	62	27	0.94	24
3D982-12-12	3/4	2.56	65	32	1.06	27

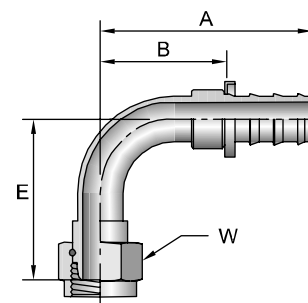


Bonded seal required if fitting is used directly in a port. See Accessories Section.

## 3B282

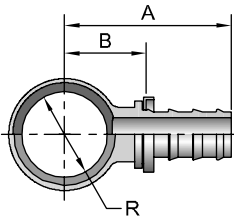
### Female BSP Parallel Pipe - Swivel - 90° Elbow - (60° Cone)



#			A		E			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	mm	inch	mm
3B282-4-4	1/4x19	1/4	1.65	42	1.02	26	17	1.02	26
3B282-6-6	3/8x19	3/8	2.09	53	1.18	30	19	1.18	30
3B282-8-8	1/2x14	1/2	2.56	65	1.57	40	27	1.57	40
3B282-10-10	5/8x14	5/8	2.99	76	1.57	40	30	1.57	40



## 34982

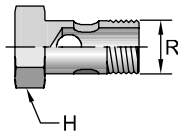
### DIN Metric Banjo





#			A		B	
Part Number	R	Hose I.D.	inch	mm	inch	mm
34982-8-4	8	1/4	1.42	36	0.63	16
34982-10-4	10	1/4	1.50	38	0.71	18
34982-12-4	12	1/4	1.57	40	0.79	20
34982-12-6	12	3/8	1.73	44	0.79	20
34982-14-4	14	1/4	1.65	42	0.87	22
34982-14-6	14	3/8	1.85	47	0.91	23
34982-16-6	16	3/8	1.93	49	0.98	25
34982-18-8	18	1/2	2.17	55	1.06	27

## AM

### Banjo Bolt with DIN Metric Thread



#			Copper Washer (2)	
Part Number	R Thread	H		
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	

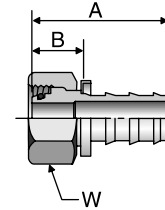
Two (2) copper washers per bolt must be ordered separately.

## 3CA82

### Female Metric L - Swivel - (24° Cone with O-Ring)

ISO 12151-2 - SWS

# Part Number	Thread		Hose I.D. inch	A		W mm	B	
	inch			inch	mm		inch	mm
3CA82-8-4	8	M14x1,5	1/4	1.42	36	17	0.67	17
3CA82-10-6	10	M16x1,5	3/8	1.57	40	19	0.67	17
3CA82-10-6B	10	M16x1,5	3/8	1.57	40	19	0.67	17
3CA82-12-6	12	M18x1,5	3/8	1.57	40	22	0.67	17
3CA82-15-8	15	M22x1,5	1/2	1.73	44	27	0.71	18
3CA82-22-12	22	M30x2	3/4	2.28	58	36	0.83	21

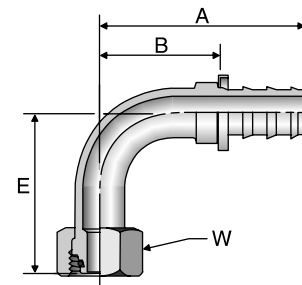


## 3CF82

### Female Metric L - Swivel - 90° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE

# Part Number	Thread		Hose I.D. inch	A		E		W mm	B	
	inch			inch	mm	inch	mm		inch	mm
3CF82-8-4	8	M14x1,5	1/4	1.65	42	1.26	32	17	0.91	23
3CF82-10-6	10	M16x1,5	3/8	1.93	49	1.38	35	19	1.06	27
3CF82-10-6B	10	M16x1,5	3/8	1.93	49	1.38	35	19	1.06	27
3CF82-12-6	12	M18x1,5	3/8	1.93	49	1.42	36	22	1.06	27
3CF82-15-8	15	M22x1,5	1/2	2.28	58	1.61	41	27	1.26	32
3CF82-22-12	22	M30x2	3/4	3.46	88	2.17	55	36	2.01	51

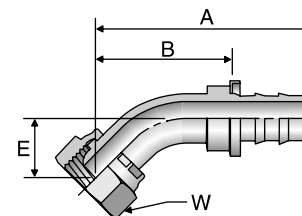


## 3C482

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

End Connection per ISO 8434-1-SWOE

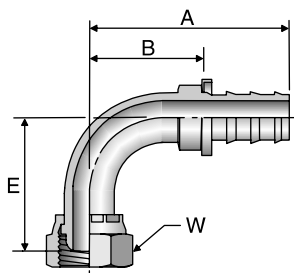
# Part Number	Thread		Hose I.D. inch	A		E		W mm	B	
	inch			inch	mm	inch	mm		inch	mm
3C482-8-4B	8	M14x1,5	1/4	2.01	51	0.63	16	17	1.26	32
3C482-10-6B	10	M16x1,5	3/8	2.28	58	0.71	18	19	1.38	35
3C482-15-8B	15	M22x1,5	1/2	2.68	68	0.75	19	27	1.61	41
3C482-22-12	22	M30x2	3/4	3.46	88	0.91	23	36	2.05	52



## 3C582

### Female Metric L - Swivel - 90° Elbow - (Ball Nose)

End Connection per ISO 8434-1-SWOF

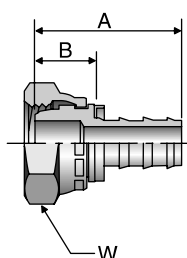


# Part Number	Thread inch	Hose I.D. inch	A		E		W	B	
			inch	mm	inch	mm	mm	inch	mm
3C582-8-4B	8 M14x1,5	1/4	1.65	42	1.14	29	17	0.91	23
3C582-10-6B	10 M16x1,5	3/8	1.93	49	1.30	33	19	1.06	27
3C582-15-8B	15 M22x1,5	1/2	2.36	60	1.54	39	27	1.34	34
3C582-22-12B	22 M30x2	3/4	3.46	88	1.97	50	36	2.01	51

## 3C382

### Female Metric L - Swivel - (Ball Nose)

End Connection per ISO 8434-1-SWOS



# Part Number	Thread inch	Hose I.D. inch	A		W	B	
			inch	mm	mm	inch	mm
3C382-8-4B	8 M14x1,5	1/4	1.42	36	19	0.63	16
3C382-10-6B	10 M16x1,5	3/8	1.50	38	19	0.59	15
3C382-15-8B	15 M22x1,5	1/2	1.65	42	27	0.59	15
3C382-22-12B	22 M30x2	3/4	2.09	53	36	0.67	17

## 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 and vacuum applications.



**Part No. 46-83A**

Kit Contents	Quantity	Kit Contents	Quantity
Hose		Male Inverted Swivel	
831-4 (1/4" I.D.)	24 ft.	32882-3-4	3
831-6 (3/8" I.D.)	24 ft.	32882-4-4	5
Male Pipe		32882-5-4	5
30182-2-4B	8	32882-6-6	3
30182-4-4B	5	Female Inverted Rigid	
30182-4-6B	5	32982-3-4B	3
30182-6-6B	6	32982-4-4B	3
Male SAE 45°		32982-5-4B	5
30482-4-4B	2	32982-6-6B	3
30482-6-6B	3	Hose Union	
SAE (JIC) 37° Female Swivel		38282-4-4B	4
30682-6-6B	5	38282-6-6B	2
SAE 45° Swivel			
30882-4-4B	5		
30882-5-4B	5		
30882-6-6B	5		

## Parker Push-Lok® Merchandiser

### PLM-1 (801 Multi-Purpose 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

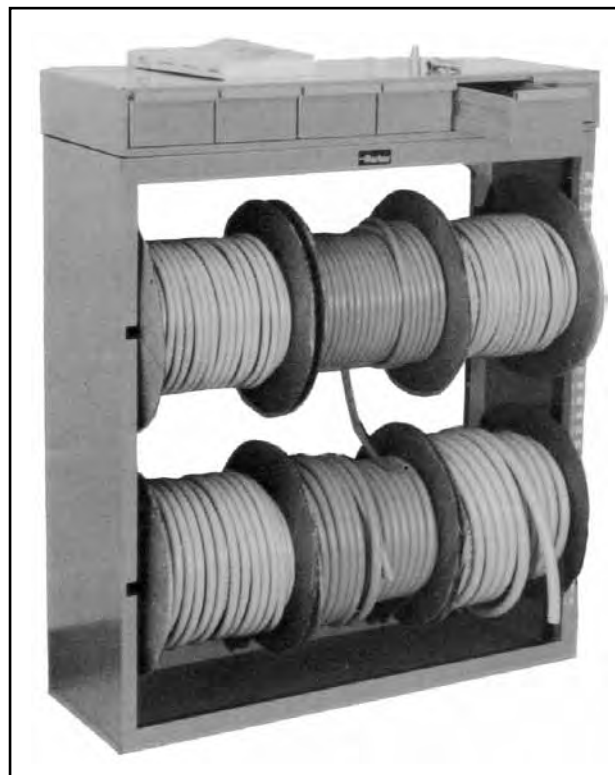
- PLM -1

Hose	Quantity	Size
801-4	300 Feet	1/4" I.D.
801-6	375 Feet	3/8" I.D.
801-8	100 Feet	1/2" I.D.

- 25 each of the following fittings:

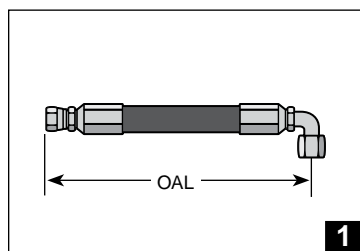
30182-4-4B	30682-4-4B	30882-6-6B
30182-6-6B	30682-6-6B	
30182-8-8B	30682-8-8B	

- Fitting drawers to store up to 18 different styles/sizes of fittings.
- TH11-1 hand held hose cutter.

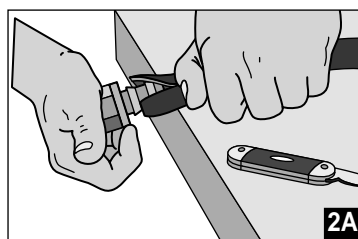
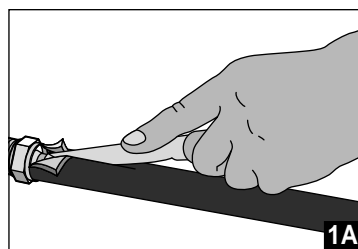
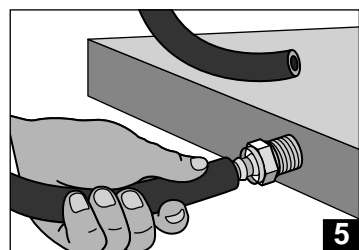


## 82 Series

### Assembly Instructions



OAL : Straight to 90° Elbow



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.
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.

### Disassembly Instructions

- 1A. 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.
- 2A. 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

<http://www.parkerhose.com>



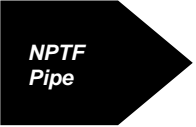
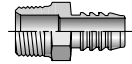
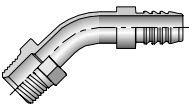
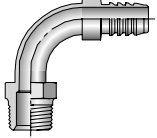



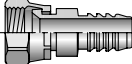
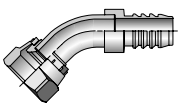
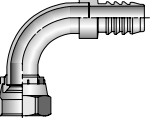

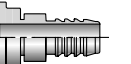
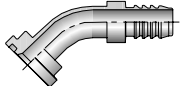
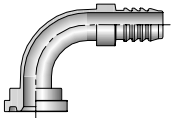

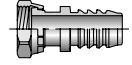
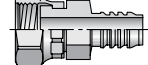

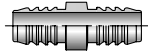




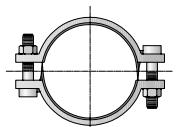

A

B

C

D

E

 <b>NPTF Pipe</b>	0188 B-198  <i>Male - Rigid</i>	3188 B-198  <i>Male - Rigid 45° Elbow</i>	2188 B-198  <i>Male - Rigid 90° Elbow</i>	 <b>Straight Thread</b>	0588 B-198  <i>Male - Rigid</i>
 <b>JIC 37°</b>	0688 B-199  <i>Female - Swivel</i>	3788 B-199  <i>Female - Swivel</i>	3988 B-199  <i>Female - Swivel</i>	 <b>Flange</b>	1588 B-199  <i>Flange Heads</i>
1788 B-200  <i>45° Elbow</i>	1988 B-200  <i>90° Elbow</i>	 <b>Seal-Lok® (O-Ring Face Seal)</b>	JS88 B-200  <i>Female - Swivel Long</i>	JC88 B-201  <i>Female - Swivel Short</i>	 <b>Union</b>
8888 B-201  <i>Union</i>	 <b>81 Series Crimp Shell</b>	81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series fittings.		10081 B-201  <i>81 Series Crimp Shell</i>	 <b>Hose Clamp</b>
88HC-H B-201  <i>Hose-Clamp</i>	88DB B-201  <i>Heavy Duty Clamp</i>	 <b>Assembly Instructions</b>	88 Series Assembly Instructions	81 Series Assembly Instructions - See Section C for crimping instructions.	

A

B

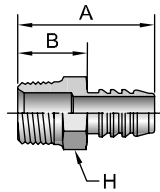
C

D

E

## 0188

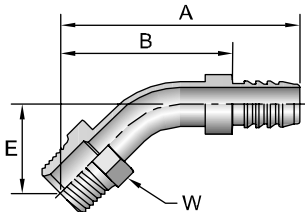
### Male NPTF Pipe - Rigid



#			A			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	H inch	inch	mm
0188-12-12	3/4x14	3/4	2.25	57	1-1/8	1.13	29
0188-16-16	1x11-1/2	1	2.75	70	1-3/8	1.37	35
0188-20-20	1-1/4x11-1/2	1-1/4	3.05	77	1-3/4	1.47	37
0188-20-24	1-1/4x11-1/2	1-1/2	3.21	82	1-3/4	1.47	37
0188-24-24	1-1/2x11-1/2	1-1/2	3.24	82	2	1.50	38
0188-32-32	2x11-1/2	2	3.49	89	2-1/2	1.66	42
0188-40-40	2-1/2x8	2-1/2	4.10	104	3	2.27	58

## 3188

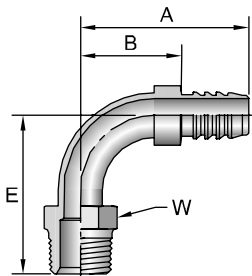
### Male NPTF Pipe - Rigid - 45° Elbow



#			A		E			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	W inch	inch	mm
3188-16-16	1x11-1/2	1	4.12	105	1.63	41	1-3/8	2.74	70
3188-20-20	1-1/4x11-1/2	1-1/4	4.54	115	1.77	45	1-3/4	2.96	75

## 2188

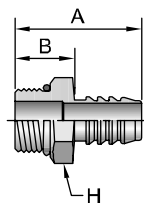
### Male NPTF Pipe - Rigid - 90° Elbow



#			A		E			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	W inch	inch	mm
2188-12-12	3/4x14	3/4	2.83	72	2.67	68	1-1/8	1.70	43
2188-16-16	1x11-1/2	1	3.35	85	3.18	81	1-3/8	1.97	50
2188-20-20	1-1/4x11-1/2	1-1/4	3.80	97	3.41	87	1-3/4	2.21	56
2188-24-24	1-1/2x11-1/2	1-1/2	4.20	107	3.61	92	2	2.46	62
2188-32-32	2x11-1/2	2	4.86	123	4.23	107	2-1/2	3.03	77

## 0588

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






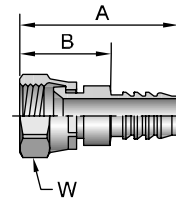
#			A			B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	H inch	inch	mm
0588-12-12	1-1/16x12	3/4	2.13	54	1-1/4	1	25
0588-16-16	1-5/16x12	1	2.38	60	1-1/2	1	25
0588-20-20	1-5/8x12	1-1/4	2.59	66	1-7/8	1	25

See page B-201 for 81 Series crimp shells and clamps for 88 Series fittings.  
See Equipment Section for assembly and crimping instructions.  
See Accessories Section for O-Rings and Flange Kits.

## 0688




### Female JIC 37° - Swivel

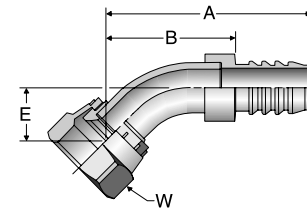
#								
Part Number	Thread		Hose I.D.	A		W	B	
	inch		inch	inch	mm	inch	inch	mm
0688-12-12	3/4	1-1/16x12	3/4	2.66	68	1-1/4	1.53	39
0688-16-12	1	1-5/16x12	3/4	1.86	47	1-1/2	1.38	35
0688-16-16	1	1-5/16x12	1	2.72	69	1-1/2	1.34	34
0688-20-20	1-1/4	1-5/8x12	1-1/4	3.34	85	2	1.75	44
0688-24-24	1-1/2	1-7/8x12	1-1/2	3.67	93	2-1/4	1.93	49
0688-32-32	2	2-1/2x12	2	4.14	105	2-7/8	2.31	59



## 3788




### Female JIC 37° - Swivel

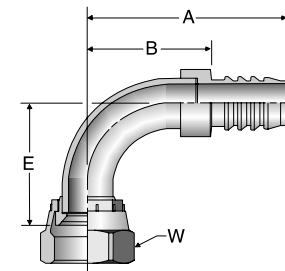
#				A		E			B	
Part Number	Thread inch		Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
3788-12-12	3/4	1-1/16x12	3/4	3.07	78	0.79	20	1-1/4	1.94	49
3788-16-16	1	1-5/16x12	1	3.51	89	0.90	23	1-1/2	2.13	54
3788-20-20	1-1/4	1-5/8x12	1-1/4	3.97	101	1.19	30	2	2.38	60



## 3988

### Female JIC 37° - Swivel

#				A		E			B	
Part Number	Thread inch		Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
3988-12-12	3/4	1-1/16x12	3/4	2.98	76	1.82	46	1-1/4	1.85	47
3988-16-16	1	1-5/16x12	1	3.48	88	2.14	54	1-1/2	2.10	53
3988-20-20	1-1/4	1-5/8x12	1-1/4	3.81	97	2.59	66	2	2.22	56
3988-24-24	1-1/2	1-7/8x12	1-1/2	4.21	107	2.81	71	2-1/4	2.47	63

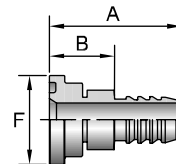


## 1588

### SAE Code 61 Flange Head

ISO 12151-3 - S - L

#	Flange	Hose I.D.	A		F	B	
Part Number	inch	inch	inch	mm	inch	inch	mm
1588-16-16	1	1	2.57	65	1-3/4	1.19	30
1588-20-20	1-1/4	1-1/4	3.37	86	2	1.78	4
1588-24-24	1-1/2	1-1/2	3.78	96	2-3/8	2.04	52
1588-32-32	2	2	4.32	110	2-13/16	2.49	63
1588-40-40	2-1/2	2-1/2	4.56	116	3-1/8	2.73	69
1588-48-40	3	2-1/2	4.62	117	4	2.79	71

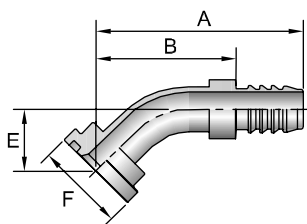





See page B-201 for 81 Series crimp shells and clamps for 88 Series fittings.  
See Equipment Section for assembly and crimping instructions.  
See Accessories Section for O-Rings and Flange Kits.

## 1788

### SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)

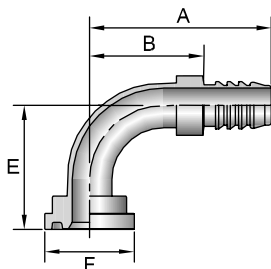





#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1788-16-16	1	1	3.55	90	1.06	27	1-3/4	2.17	55
1788-20-20	1-1/4	1-1/4	3.90	99	1.13	29	2	2.31	59
1788-24-24	1-1/2	1-1/2	4.15	105	1.11	28	2-3/8	2.41	61
1788-32-32	2	2	4.58	116	1.25	32	2-13/16	2.75	70
1788-40-40	2-1/2	2-1/2	5.17	131	1.41	36	3-1/8	3.34	85
1788-48-40	3	2-1/2	5.21	132	1.45	37	4	3.38	86

## 1988

### SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

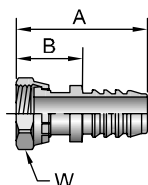





#			A		E			B	
Part Number	Flange inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
1988-16-16	1	1	3.35	85	2.37	60	1-3/4	1.97	50
1988-20-20	1-1/4	1-1/4	3.80	97	2.50	64	2	2.21	56
1988-24-24	1-1/2	1-1/2	4.20	107	2.74	70	2-3/8	2.46	62
1988-32-32	2	2	4.86	123	3.19	81	2-13/16	3.03	77
1988-40-40	2-1/2	2-1/2	5.52	140	3.75	95	3-1/8	3.69	94
1988-48-40	3	2-1/2	5.52	140	3.81	97	4	3.69	94

## JS88

### Female Seal-Lok® - Swivel - Long

ISO - 12151-1 - SWSB



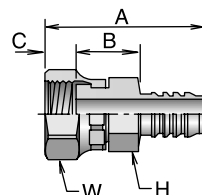
#			A			B		
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm	
JS88-20-20	1-1/4	1-11/16x12	1-1/4	3.21	82	1-7/8	1.15	29
JS88-24-24	1-1/2	2x12	1-1/2	3.47	88	2-1/4	1.73	44

See page B-201 for 81 Series crimp shells and clamps for 88 Series fittings.  
 See Equipment Section for assembly and crimping instructions.  
 See Accessories Section for O-Rings and Flange Kits.

## JC88

**Female Seal-Lok - Swivel - Short**  
ISO 12151- 1 - SWSA

#										
Part Number	Thread	Hose I.D.	A	C	H	W	B			
JC88-12-12	3/4 1-3/16x12	3/4	2.80	71	0.57	1-1/8	1-3/8	1.70	43	
JC88-16-12	1 1-7/16x12	3/4	2.82	72	0.58	1-3/8	1-5/8	1.69	43	
JC88-16-16	1 1-7/16x12	1	3.07	78	0.59	1-3/8	1-5/8	1.69	43	
JC88-20-16	1-1/4 1-11/16x12	1	3.08	78	0.59	1-7/8	1-5/8	1.70	43	
JC88-20-20	1-1/4 1-11/16x12	1-1/4	3.29	84	0.59	1-7/8	1-7/8	1.70	43	

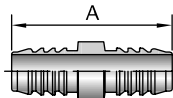


When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

## 8888

**Union (Hose Splicer)**

#				
Part Number	Hose I.D.	A		
	inch	inch	mm	
8888-12-12	3/4	2.70	67	
8888-16-16	1	3.21	82	
8888-20-20	1-1/4	3.61	92	
8888-24-24	1-1/2	3.92	100	
8888-32-32	2	4.04	103	



## 88HC

**Hose Clamp (Worm Gear)**

#	
Part Number	Hose I.D.
	inch
88HC-12	3/4
88HC-16	1
88HC-20	1-1/4
88HC-24	1-1/2
88HC-32	2



## 10081

**Crimp Shell**

#	
Part Number	Hose I.D.
	inch
10081-12	3/4
10081-16	1
10081-20	1-1/4
10081-24	1-1/2
10081-32	2



81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Equipment Section for complete 81 Series Assembly and Crimping instructions.

## 88HC-H

**Hose Clamp (High Torque Worm Gear)**

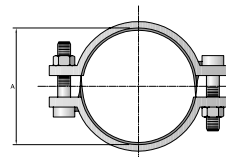
#	
Part Number	Hose I.D.
	inch
88HC-12H	3/4
88HC-16H	1
88HC-20H	1-1/4
88HC-24H	1-1/2
88HC-32H	2



## 88DB

**Heavy Hose Clamp (Double Bolt)**

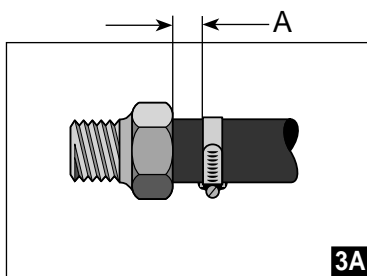
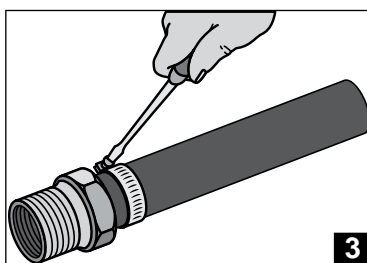
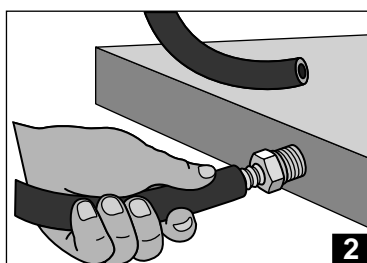
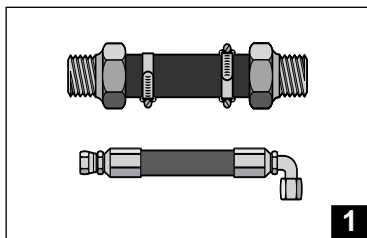
#	
Part Number	Hose I.D.
	inch
88DB-12	3/4
88DB-16	1
88DB-20	1-1/4
88DB-24	1-1/2
88DB-32	2



## 88 Series

### Hose 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.



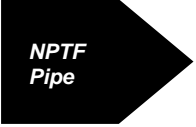
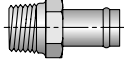
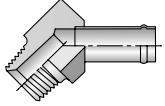
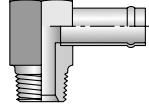

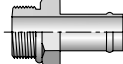
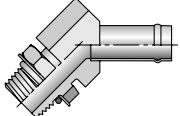
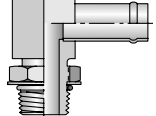

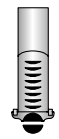
Hose I.D. inch	A	
	inch	mm
-12	1/4	6.35
-16	3/8	9.53
-20	3/8	9.53
-24	1/2	12.70
-32	1/2	12.70

**Note:** For permanent installation of 88 Series Fittings, an 81 Series Crimp Shell must be added. See Equipment Section 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  
<http://www.parkerhose.com>



 <p><b>NPTF Pipe</b></p>	<p>01TB B-204</p>  <p><i>Male - Rigid</i></p>	<p>31TB B-204</p>  <p><i>Male - Rigid 45° Elbow</i></p>	<p>21TB B-204</p>  <p><i>Male - Rigid 90° Elbow</i></p>	 <p><b>SAE Straight Thread</b></p>	<p>05TB B-205</p>  <p><i>Male - Rigid</i></p>
<p>35TB B-205</p>  <p><i>Male - Rigid 45° Elbow</i></p>	<p>25TB B-205</p>  <p><i>Male - Rigid 90° Elbow</i></p>	 <p><b>Clamp</b></p>	<p>Clamp B-201</p>  <p><i>Wormgear</i></p>		

A

B

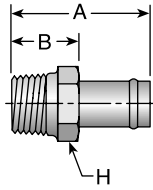
C

D

E

## 01TB

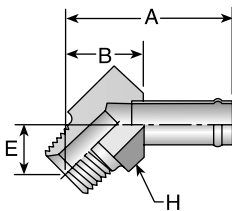
### Male NPTF Pipe - Rigid



#			A		H	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	inch	mm
01TB-4-6	1/4x18	3/8	2.09	53	5/8	0.96	24
01TB-6-8	3/8x18	1/2	2.12	54	3/4	0.96	24
01TB-8-10	1/2x14	5/8	2.31	59	7/8	1.15	29
01TB-8-12	1/2x14	3/4	2.31	59	1	1.15	29
01TB-12-12	3/4x14	3/4	2.31	54	1-1/8	1.15	24
01TB-16-16	1x11-1/2	1	2.69	68	1-3/8	1.53	39
01TB-20-20	1-1/4x11-1/2	1-1/4	2.84	72	1-3/4	1.34	34
01TB-24-24	1-1/2x11-1/2	1-1/2	3.25	83	2	1.50	38
01TB-32-32	2x11-1/2	2	3.53	90	2-5/8	1.78	45

## 31TB

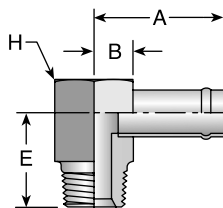
### Male NPTF Pipe - Rigid - 45° Elbow



#			A		E		H	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
31TB-6-8	3/8x18	1/2	2.54	65	0.69	18	7/8	1.04	26
31TB-8-10	1/2x14	5/8	2.68	68	0.82	21	1	1.18	30
31TB-8-12	1/2x14	3/4	2.78	71	0.82	21	1-1/4	1.28	33
31TB-12-12	3/4x14	3/4	2.82	72	0.86	22	1-1/4	1.32	34
31TB-12-16	3/4x14	1	3.01	76	0.86	22	1-1/2	1.38	35
31TB-16-16	1x11-1/2	1	3.19	81	1.04	26	1-1/2	1.56	40
31TB-20-20	1-1/4x11-1/2	1-1/4	3.26	83	0.99	25	1-7/8	1.59	40

## 21TB

### Male NPTF Pipe - Rigid - 90° Elbow

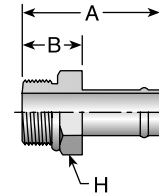


#			A		E		H	B	
Part Number	Thread inch	Hose I.D. inch	inch	mm	inch	mm	inch	inch	mm
21TB-6-8	3/8x18	1/2	1.94	49	1.22	31	7/8	0.44	11
21TB-8-10	1/2x14	5/8	2.03	52	1.47	37	1-1/16	0.53	13
21TB-8-12	1/2x14	3/4	2.16	55	1.59	40	1-5/16	0.66	17
21TB-12-12	3/4x14	3/4	2.16	55	1.59	40	1-5/16	0.66	17
21TB-12-16	3/4x14	1	2.44	62	1.59	40	1-5/8	0.81	21
21TB-16-14	1x11-1/2	7/8	2.31	59	1.97	50	1-5/8	0.81	21
21TB-16-16	1x11-1/2	1	2.44	62	1.97	50	1-5/8	0.81	21

## 05TB

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

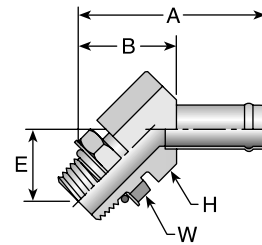
# Part Number	Thread inch	Hose I.D. inch	A		H inch	B	
			inch	mm		inch	mm
05TB-6-6	9/16x18	3/8	1.94	49	11/16	0.69	18
05TB-8-8	3/4x16	1/2	2.00	51	7/8	0.75	19
05TB-8-10	3/4x16	5/8	2.00	51	7/8	0.75	19
05TB-10-10	7/8x14	5/8	2.06	52	1	0.81	21
05TB-12-12	1-1/16x12	3/4	2.25	57	1-1/4	1.00	25
05TB-16-16	1-5/16x12	1	2.38	60	1-1/2	1.00	25
05TB-20-20	1-5/8x12	1-1/4	2.50	64	1-7/8	1.00	25



## 35TB

### Male SAE Straight Thread with O-Ring - Rigid - 45° Elbow

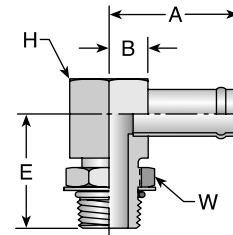
# Part Number	Thread inch		Hose I.D. inch	A		E		H inch	W inch	B	
				inch	mm	inch	mm			inch	mm
35TB-8-8	1/2	3/4x16	1/2	2.79	71	0.93	24	7/8	7/8	1.29	33
35TB-10-10	5/8	7/8x14	5/8	2.80	71	0.93	24	1	1	1.28	33
35TB-12-12	3/4	1-1/16x12	3/4	3.18	81	1.22	31	1-1/4	1-1/4	1.68	43
35TB-16-16	1	1-5/16x12	1	3.45	88	1.30	33	1-1/2	1-1/2	1.82	46
35TB-20-16	1-1/4	1-5/8x12	1	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

# Part Number	Thread inch		Hose I.D. inch	A		E		H inch	W inch	B	
				inch	mm	inch	mm			inch	mm
25TB-8-6	1/2	3/4x16	3/8	1.94	49	1.45	37	7/8	7/8	0.44	11
25TB-8-8	1/2	3/4x16	1/2	1.94	49	1.44	37	7/8	7/8	0.44	11
25TB-10-10	5/8	7/8x14	5/8	2.03	52	1.69	43	1-1/16	1	0.53	13
25TB-10-12	5/8	7/8x14	3/4	2.16	55	1.69	43	1-5/16	1	0.66	17
25TB-12-12	3/4	1-1/16x12	3/4	2.16	55	1.92	49	1-5/16	1-1/4	0.66	17
25TB-16-12	1	1-5/16x12	3/4	2.31	59	2.03	52	1-5/8	1-1/2	0.81	21
25TB-16-16	1	1-5/16x12	1	2.44	62	2.03	52	1-5/8	1-1/2	0.81	21
25TB-20-16	1-1/4	1-5/8x12	1	2.57	65	2.34	59	1-7/8	1-7/8	0.94	24
25TB-20-20	1-1/4	1-5/8x12	1-1/4	2.61	66	2.34	59	1-7/8	1-7/8	0.94	24



A

B

C

D

E



Visit Crimpsource at  
[www.parker.com/crimpsource](http://www.parker.com/crimpsource),  
 your online resource for hose crimp  
 specifications.

# Equipment

C



ENGINEERING YOUR SUCCESS.

A

Karrykrimp

C-8



Karrykrimp Bench Mount

C-8



Karrykrimp 2

C-10



B

Karrykrimp 2 Bench Mount

C-10



Parkrimp 2

C-12



Minikrimp

C-14



C

Portable Pumps

C-16



Crimpsource

C-17

Parkrimp and  
Twin-Tough Instructions

C-18-21



D

Conversion Kits

C-22



332T-115V

C-23



Hose Cut-Off Machine

239 and 339

C-23



Hose Cut-Off Machine

E

631075  Karrykut - Hose Cut-Off Machine	C-23	Hose Cut-Off Machine  TH3-51	C-23	TH6-10-HL-9-2  Ultra Clean Hose Cleaning Kit	C-24
TH6-10-EL-7  Economy Hose Cleaning Kit	C-24	871522  Handycut - Hose Cut-Off Machine	C-26	881540  Push-Lok Cut-Off & Assembly Tool	C-26
TH9-1  Hose Insertion Depth Blocks	C-26	316  Hose Cut-Off Tool	C-26	TH11-1  Hose Cut-Off Tool	C-27
432-115V  Hozembler	C-27	80C-0DR and 83C-0DR  Die Storage Racks	C-27	80C-SDR  Swivel Die Rack	C-27
TH2-7  Fittings Push-On Stand	C-28	652200  Mandrel Tool Kit - 22 Series	C-28	2727 and 2726  Mandrel Tool Kit - 23 Series	C-28
TH2-7M25-6, TH2-7M25-8  Mandrels - 25 Series	C-28	652201  Assembly Tools - 22 Series	C-29	601069  Hose Perforator	C-29

A

B





C

D

E



A

<div>Hose Oil</div> <div>C-29</div> <div></div> <div>Hose Oil</div>	<div>Lubricant</div> <div>C-29</div> <div></div> <div>Accrolube - High Efficiency</div>	<div>Small Crimper Hood</div> <div>C-29</div> <div></div>
<div>Large Crimper Hood</div> <div>C-29</div> <div></div>		

B

C

D

E

A

B

C

D

E

# Hose Assemblies Are Easy With the Parkrimp System.

Since its introduction in 1980, the Parkrimp family of crimping machines has led the industry in ease of use and rugged durability.

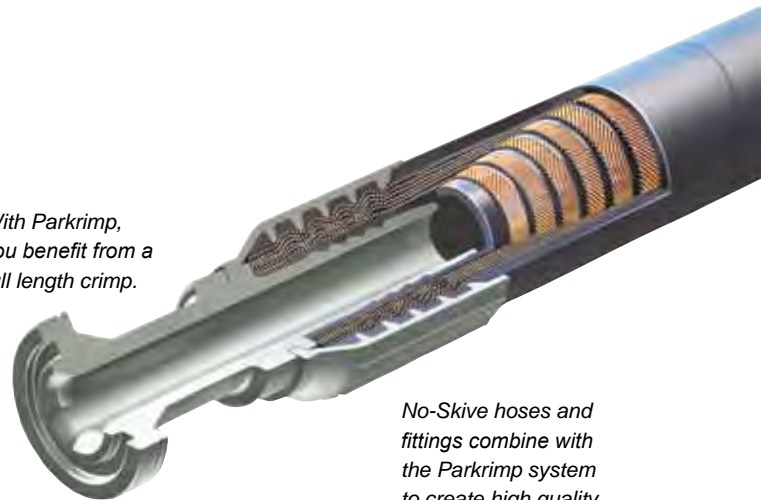
When it comes to hose assemblies, no one puts it all together like Parker. From high-volume productivity to portable on-site assembly, we offer a variety of crimping machines, No-Skive hoses, and No-Skive fittings to meet your needs.

With Parkrimp equipment, anyone can make factory-quality hose assemblies quickly, easily, and cost effectively. Parkrimp machines are simple to operate and they're built to provide years of dependable service. Seven Parkrimp models – an entire family of crimpers – are available to meet your bench-mounted or portable needs, crimping straight or bent-stem fittings from 1/4" to 2" in diameter. Just use our No-Skive hoses and fittings to create leak-free hose assemblies whenever and wherever you need them.

The complete system from one source: No-Skive hose, No-Skive fittings, and crimping machines with worldwide availability and service.



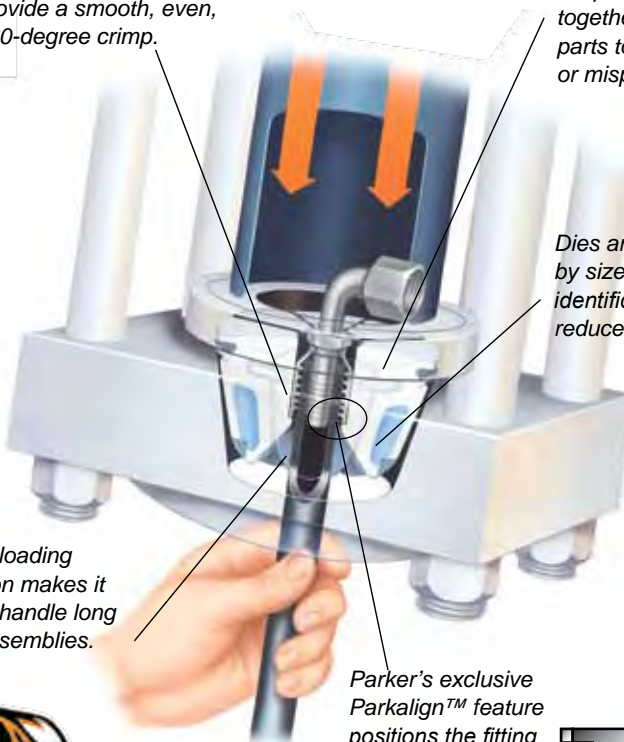
With Parkrimp, you benefit from a full length crimp.



Our low profile design makes routing hose assemblies easy.

No-Skive hoses and fittings combine with the Parkrimp system to create high quality, reliable hydraulic hose assemblies every time.

Eight segment crimp dies provide a smooth, even, 360-degree crimp.

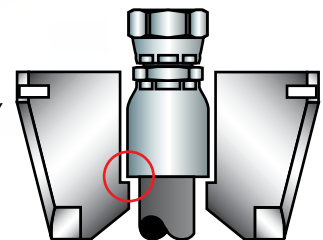


Our linked crimp dies keep die segments together. No loose parts to mismatch or misplace.

Dies are color-coded by size for easy identification and reduced set-up time.

Bottom-loading operation makes it easy to handle long hose assemblies.

Parker's exclusive Parkalign™ feature positions the fitting in the dies perfectly every time.



Be sure to check [www.parker.com/crimpsource](http://www.parker.com/crimpsource) for the most up to date information and crimp specifications.

## Selecting the right die.

Once the proper Parker Hose and Fitting is selected that meets your application requirements, you will need to select the proper die to assemble them together.

Based on the hose size and approved fitting, select the proper color coded die, as called out in the chart below.

### Example:

Hose	451TC-4
Fitting	43 Series
Die Body Color	Silver
Die Cavity Color (-4)	RED

Based on the Parkrimp machine being used to assemble the hose and fitting, individual die part numbers and tooling selection for your assembly can be found in Section C of this catalog.

For general hose assembly instructions for all Parkrimp machines, please turn to pages C-18 and C-19. (An instructional video is a standard part of each Parkrimp machine shipped from the manufacturer.)

Parker Hose Products Division also offers a full line of crimping accessories, including conversion kits, cabinets, cut-off saws, push-on tables, die racks, and mandrel tool kits.



Hose Dash Size	Die Cavity Color Code	43 Series Die Body Color	70, 71 & 77 Series Die Body Color	73, 78, S6 & 79 Series Die Body Color	76 Series Die Body Color	26 Series Die Body Color	81 Series Die Body Color
		Silver	Black	Olive Drab	Silver	Silver	Silver
-4	RED		N/A	N/A	N/A		N/A
-5	PURPLE		N/A	N/A	N/A		N/A
-6	YELLOW			N/A	N/A		N/A
-8	BLUE			N/A	N/A		N/A
-10	ORANGE			N/A	N/A		N/A
-12	GREEN						
-16	BLACK						
-20	WHITE				N/A		
-24	RED				N/A		
-32	GREEN				N/A		

Hose Dash Size	Die Cavity Color Code	HY Series Die Body Color
		Silver
-4	BROWN	
-5	BROWN	
-6	BROWN	
-8	BROWN	
-10	BROWN	
-12	BROWN	
-16	BROWN	



Reference pages C-8 through C-17 for specific tool information regarding hose, fitting, and crimper combinations.

## Karrykrimp

The Karrykrimp is now available in a modular design with all the familiar Parkrimp System advantages.

The same unit now offers portability and bench mountability.



### Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 5/8" ID 4 wire spiral hose
- Only steel fittings

### Features

- Portable, compact rugged design
- Numerous portable power unit options available
- Pivoting pusher design for easy die change out
- Increased height enables longer bent tube fittings to be crimped
- For use with 25, 26, 43, 81, and HY Series fittings

### Specifications

- Dimensions: 15" wide, 12" deep, 30" high
- Weight: 60 lbs (without power unit)
- Rating: 30 ton force @ 10,000 psi maximum
- Full Cycle Time: 30 seconds 82C-0EP power unit (1/2" 43 Series)
- Reference page C-16 for information on available power units

### Standard Equipment

Part Number			Description	Individual Part Number
82C-CHD	82C-061L	82C-KKB		
●	●	●	Crimp Head	82C-CHD
		●	Bench Power Unit Assembly	85C-1PH
●	●	●	Silver die ring	82C-R01
●	●	●	Black die ring	82C-R02
	●		Hose Assembly	85C-00L
	●		Stand Assembly	85C-STD

## Karrykrimp Bench Mount



### Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 5/8" ID 4 wire spiral hose
- Only steel fittings

### Features

- Faster cycle times on bench mounted units
- Pivoting pusher design for easy die change out
- Compact bench mount design
- Increased height enables longer bent tube fittings to be crimped
- For use with 25, 26, 43, 81, and HY Series fittings

### Specifications

- Dimensions: 17" wide, 23" deep, 27-1/2" high
- Weight: 146 lbs
- Rating: 30 ton force @ 10,000 psi maximum
- Full Cycle Time: 11 seconds (1/2" 43 Series)
- Hydraulic Fluid: AW32 oil
- This unit is designed to make about 400 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the the expectancy of the crimper components.

- **Note:** Motor is dual voltage, 50/60hz suitable for 208-230/115v, 1ph, 60hz and 220-230/110v, 1ph, 50hz. Motor can be rewired by a qualified electrician to operate at alternate voltage.



#### Note:

- For crimp instructions, see pages C-18 and C-19.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- 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 Bench Mount Hose Die Selection Chart

PN: KK HOSE DECAL Hose 8/11	Fittings	Hose/Die Selection and Crimp Diameters								PN: KK MASTER DECAL 8/11	Die Ring
		-4 RED	-5 PUR	-6 YEL	-8 BLU	-10 ORG	-12 GRN	-16 BLK	-20 WHT		
Die		80C-A04	80C-A05	80C-A06	80C-A08	80C-A10	80C-A12	80C-A16	80C-A20		
351TC 431 471ST 351ST 436 472TC 422 451TC 482TC 424 451ST 482ST 426 471TC	43 Series	0.645 0.665	0.710 0.730	0.825 0.845	0.945 0.965	1.060 1.080	1.245 1.265	1.590 1.610	1.970 1.990		Silver
421WC 304 601 302/301 341 604 301LT 381 881 722TC (-6, -8, -10 only)		0.685 0.705	0.750 0.770	0.865 0.885	0.985 1.005	1.100 1.120	1.285 1.305	1.630 1.650	2.010 2.030		Black
Die		80C-E04	80C-E05	80C-E06	80C-E08	80C-E10	80C-E12	80C-E16			
213 285 293	26 Series	0.460 0.480	0.520 0.540	0.575 0.595	0.670 0.690	0.805 0.825	0.915 0.935	1.175 1.195			Silver
201 221FR 266 206 225 SS25UL 244		0.500 0.520	0.560 0.580	0.615 0.635	0.710 0.730	0.845 0.865	0.955 0.975	1.215 1.235			Black
Die							80C-V12	80C-V16	80C-V20		
811 811HT 881	81 Series						1.155 1.175	1.450 1.470	1.740 1.760		Silver
Die		80C-H585		80C-H735	80C-H840	80C-H970	80C-H1120				
AX	HY Series	0.575 0.595		0.725 0.745	0.830 0.850	0.960 0.980	1.110 1.130				Silver
Die		80C-H605		80C-H775	80C-H885	80C-H1010	80C-H1170				
BXX		0.635 0.655		0.805 0.825	0.915 0.935	1.040 1.060	1.200 1.220				Black
Die		80C-H595		80C-H735	80C-H860	80C-H1015	80C-H1170	80C-H1365			
611HT 801 836		0.575 0.595		0.720 0.740	0.860 0.880	0.995 1.015	1.140 1.160	1.350 1.370			Silver

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Caution: Read the operations and technical manual before attempting to operate this machinery. Do not operate this machine without guard in place. Keep hands clear of moving parts when operating machine.

NOTE: Do not use these machines to assemble 341-20, 451TC-20, 451ST-20, 472TC-20 or any size stainless steel fittings.

For a new decal, contact Parker at: 1-800-C-PARKER or print your own at [www.parker.com/crimpsource](http://www.parker.com/crimpsource).



## Karrykrimp 2

The Karrykrimp 2 is now available in a modular design with all the familiar Parkrimp System advantages.

The same unit now offers portability and bench mountability.



### Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 1-1/4" ID 4 wire spiral hose
- Up to 1" ID 6 wire spiral hose

### Features

- Portable, compact rugged design
- Numerous portable power unit options available
- Pivoting pusher design for easy die change out
- For use with 25, 26, 43, 70, 71, 73, 77, 78, 81, and HY Series fittings

### Specifications

- Dimensions: 14" wide, 14" deep, 31-1/2" high
- Weight: 120 lbs (without power unit)
- Rating: 60 ton force @ 10,000 psi maximum
- Full Cycle Time: 20 seconds with 85C-0EP power unit (1/2" 43 series)
- Reference page C-16 for information on available power units

### Standard Equipment

Part Number			Description	Individual Part Number
85C-CHD	85C-061L	85C-KKB		
●	●	●	Crimp Head	85C-CHD
		●	Bench Power Unit Assembly	85C-1PH
●	●	●	Silver die ring	85C-R01
●	●	●	Black die ring	85C-R02
	●		Hose Assembly	85C-00L
	●		Stand Assembly	85C-STD

### Optional Tooling

- Die Kit (85C-KDA) Includes 43 Series dies in sizes 1/4", 3/8", 1/2", 3/4", 1" and 1-1/4" and 70/71 Series dies in sizes 3/8", 1/2", 3/4", 1", 1-1/4" **ONLY**.

#### Note:

- For crimp instructions, see pages C-18 and C-19.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- 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 Bench Mount



### Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 1-1/4" ID 4 wire spiral hose
- Up to 1" ID 6 wire spiral hose

### Features

- Faster cycle times on bench mounted units
- Pivoting pusher design for easy die change out
- Compact bench mount design
- For use with 25, 26, 43, 70, 71, 73, 77, 78, 81, and HY Series fittings

### Specifications














- Dimensions: 17" wide, 23" deep, 28" high
- Weight: 208 lbs
- Rating: 60 ton force @ 10,000 psi maximum
- Full Cycle Time: 17 seconds (1/2" 43 series)
- Hydraulic Fluid: AW32 oil
- This unit is designed to make about 400 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the expectancy of the crimper components.

- **Note:** Motor is dual voltage, 50/60hz suitable for 208-230/115v, 1ph, 60hz and 220-230/110v, 1ph, 50hz. Motor can be rewired by a qualified electrician to operate at alternate voltage.





## KK2-PH Hose Die Selection Chart

PN: KK2-PH HOSE DECAL Hose 8/11			Fittings	Hose/Die Selection and Crimp Diameters						PN: KK2-PH MASTER DECAL 8/11		
				- 4 RED	- 5 PUR	- 6 YEL	- 8 BLU	- 10 ORG	- 12 GRN	- 16 BLK	- 20 WHT	Die Ring
Die				80C-A04	80C-A05	80C-A06	80C-A08	80C-A10	80C-A12	80C-A16	80C-A20	
351TC	431	471ST	43 Series	0.645	0.710	0.825	0.945	1.060	1.245	1.590	1.970	
351ST	436	472TC		0.665	0.730	0.845	0.965	1.080	1.265	1.610	1.990	
422	451TC	482TC										
424	451ST	482ST										
426	471TC											
421WC	304	601		0.685	0.750	0.865	0.985	1.100	1.285	1.630	2.010	
302/301	341	604		0.705	0.770	0.885	1.005	1.120	1.305	1.650	2.030	
301LT	381	881										
722TC												
Die				83C-D06		83C-D08	83C-D10					
701 F42 (-8 ONLY)			70 Series			0.990 1.010	1.140 1.160	1.260 1.280				
Die				83C-D06		83C-D08	83C-D10	83C-D12	83C-D16	83C-D20		
711	721ST	772ST	71 Series			0.950	1.100	1.220	1.355	1.695	2.025	
721	772TC	774				0.970	1.120	1.240	1.375	1.715	2.045	
721TC	772LT											
Die									80C-L12	80C-L16		
731			73 Series						1.420 1.440	1.730 1.750		
Die							80C-CS08	80C-CS10	80C-CS12			
787TC 797TC			77 Series				0.930 0.950	1.057 1.077	1.245 1.265			
Die									80C-L12	80C-L16		
78C			78 Series						1.420 1.440	1.730 1.750		
781	782TC	782ST										
Die				80C-E04	80C-E05	80C-E06	80C-E08	80C-E10	80C-E12	80C-E16		
213			26 Series	0.460	0.520	0.575	0.670	0.805	0.915	1.175		
285				0.480	0.540	0.595	0.690	0.825	0.935	1.195		
293												
201	221FR	266		0.500	0.560	0.615	0.710	0.845	0.955	1.215		
206	225	SS25UL		0.520	0.580	0.635	0.730	0.865	0.975	1.235		
244												
Die									80C-V12	80C-V16	80C-V20	
811			81 Series						1.155 1.175	1.450 1.470	1.740 1.760	
811HT												
881				80C-H585		80C-H735	80C-H840	80C-H970	80C-H1120	80C-H1365		
Die			HY Series	0.575		0.725	0.830	0.960	1.110	1.355		
AX				0.595		0.745	0.850	0.980	1.130	1.375		
Die				80C-H605		80C-H775	80C-H885	80C-H1010	80C-H1170	80C-H1465		
BXX				0.635		0.805	0.915	1.040	1.200	1.495		
				0.655		0.825	0.935	1.060	1.220	1.515		
Die				80C-H595		80C-H735	80C-H860	80C-H1015	80C-H1170	80C-H1365		
611HT				0.575		0.720	0.860	0.995	1.140	1.350		
801				0.595		0.740	0.880	1.015	1.160	1.370		
836												

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Caution: Read the operations and technical manual before attempting to operate this machinery. Do not operate this machine without guard in place. Keep hands clear of moving parts when operating machine.

NOTE: 1. Stainless steel crimper diameters are 0.010" greater than table listings with the exception of stainless steel HY series fitting which are 0.005" greater than the table listings. 2. Do not use lubricant to assemble spiral hose and fittings.

For a new decal, contact Parker at: 1-800-C-PARKER or print your own at [www.parker.com/crimpsource](http://www.parker.com/crimpsource).

# Parkrimp 2



## Capability

- Up to 2" ID 2 wire braided hose
- Up to 2" ID 4/6 wire spiral hose

## Features

- Easy to use vertical design
- Crimps full range of Parker hoses from 1/4" through 2" I.D.
- Crimps both steel and stainless steel fittings
- For use with 25, 26, 43, 70, 71, 73, 76, 77, 78, 79, 81, S6 and HY Series fittings

## Specifications

- Dimensions: 31" wide, 24" deep, 77" high
- Weight: 842 lbs (Head is 558 lbs and base is 284 lbs)
- Rating: 125 ton force @ 5,000 psi maximum
- Full Cycle Time: 30 seconds without adapter bowl  
20 seconds with adapter bowl
- Hydraulic oil: Enerpac oil

## Standard Equipment

Part Number				Description	Individual Part Number
83C-001	83C-081	83C-002	83C-082		
●	●	●	●	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
		●	●	Parkrimp 2 stand assembly with 230 volt, 1 phase, 50/60 Hz power unit	83C-S20
●	●	●	●	Adapter bowl	83C-OCB
●	●	●	●	Spacer ring	83C-R02
●	●	●	●	Spacer Plate	83C-R02H
●		●		Die Kit Includes 43 Series dies in sizes 1/4", 3/8", 1/2", 3/4", 1", 1-1/4" dies and 70/71 Series dies in sizes 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" ONLY	83C-KDA

### Note:

- For crimp instructions, see pages C-18 and C-19.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- 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 Hose Die Selection Chart

PN: PK2 HOSE DECAL 8/11 Hose			Fittings	Die Selection and Crimp Diameters						PN: PK2 MASTER DECAL 8/11				
				- 4 RED	- 5 PUR	- 6 YEL	- 8 BLU	- 10 ORG	- 12 GRN	- 16 BLK	- 20 WHT	- 24 RED	- 32 GRN	
Die				80C-A04	80C-A05	80C-A06	80C-A08	80C-A10	80C-A12	80C-A16	80C-A20	83C-A24	83C-A32	
351TC	431	471ST	43 Series	0.645	0.710	0.825	0.945	1.060	1.245	83C-A16H	83C-A20H	2.290	2.735	
351ST	436	472TC		0.665	0.730	0.845	0.965	1.080	1.265	1.590	1.970	2.310	2.755	
422	451TC	482TC		Small Silver Die (80C-AXX) and Adapter Bowl (83C-OCB)						Large Silver Die (83C-AXX)				
424	451ST	482ST		0.685	0.750	0.865	0.985	1.100	1.285	1.630	2.010	2.330	2.775	
426	471TC			0.705	0.770	0.885	1.005	1.120	1.305	1.650	2.030	2.350	2.795	
Tools Required				Small Silver Die (80C-AXX), Small Silver Die (80C-AXX), and Adapter Bowl (83C-OCB)						Large Silver Die (83C-AXX)				
421WC	304	601	70 Series	83C-D06			83C-D08	83C-D10						
302/301	341	604		0.990	1.140	1.260								
301LT	381	881		0.705	0.770	0.885	1.005	1.120	1.305	1.630	2.030	2.350	2.775	
722TC	(-6 thru -20 only)			Spacer Ring (83C-R02), Small Silver Die (80C-AXX), and Adapter Bowl (83C-OCB)						Spacer Plate (83C-R02H) and Large Silver Die (83C-AXX)				
Tools Required														
Die				83C-D06			83C-D08	83C-D10						
701	F42 (-8 ONLY)			0.990	1.140	1.260								
Tools Required				Spacer Ring (83C-R02), Small Black Die (83C-DXX), and Adapter Bowl (83C-OCB)										
Die				83C-D06			83C-D08	83C-D10	83C-D12	83C-D16	83C-D20	83C-D24	83C-D32	
711	721ST	772ST	71 Series	83C-D06			83C-D08	83C-D10	83C-D12	83C-D16H	83C-D20H	2.290	2.775	
721	722TC	772TC		0.950	1.100	1.220	1.355	1.695	2.025	2.310	2.795			
721TC	721	774		0.970	1.120	1.240	1.375	1.715	2.045					
Tools Required					Small Black Die (83C-DXX) and Adapter Bowl (83C-OCB)						Large Black Die (83C-DXX)			
Die										83C-L12	83C-L16	83C-L20	83C-L24	83C-L32
731									1.420	1.730	2.140	2.440	3.025	
Tools Required									1.440	1.750	2.160	2.460	3.045	
Die									83C-U12	83C-U16				
761									1.540	1.865				
Tools Required									1.560	1.885				
Die				80C-CS08			80C-CS10	80C-CS12	80C-CS16	83C-CS20				
787TC	797TC		77 Series	0.930			1.057	1.245	1.541	1.970				
				0.950			1.077	1.265	1.561	1.990				
Tools Required				Spacer Ring (83C-R02), Small Silver Die (80C-CSXX) and Adapter Bowl (83C-OCB)								Spacer Plate (83C-R02H) and Large Silver Die (83C-CSXX)		
Die										83C-L12	83C-L16	83C-L20	83C-L24	83C-L32
P35/78C	781	782ST		78/S6 Series						1.420	1.730	2.140	2.440	3.025
Tools Required								1.440	1.750	2.160	2.460	3.045		
Die										83C-L12	83C-L16	83C-L20	83C-L24	
791TC	792TC	792ST						1.420	1.730	2.140	2.440			
792LT	F42							1.440	1.750	2.160	2.460			
Tools Required									Large Olive Drab (83C-LXX)					
Die				80C-E04	80C-E05	80C-E06	80C-E08	80C-E10	80C-E12	80C-E16	83C-E20	83C-E24	83C-E32	
213	285	293	26 Series	0.460	0.520	0.575	0.670	0.805	0.915	1.175	1.420	1.670	2.160	
Tools Required				0.480	0.540	0.595	0.690	0.825	0.935	1.195	1.440	1.690	2.180	
				Small Silver Die (80C-EXX) and Adapter Bowl (83C-OCB)						Large Silver Die (83C-EXX)				
201	221FR	266		0.500	0.560	0.615	0.710	0.845	0.955	1.215	1.460	1.710	2.200	
206	225	SS25UL		0.520	0.580	0.635	0.730	0.865	0.975	1.235	1.480	1.730	2.220	
Tools Required				Spacer Ring (83C-R02), Small Silver Die (80C-EXX), and Adapter Bowl (83C-OCB)						Spacer Plate (83C-R02H) and Large Silver Die (83C-EXX)				
Die									80C-V12	80C-V16	80C-V20	83C-V24	83C-V32	
811	811HT	881	81 Series						1.155	1.450	1.740	2.010	2.430	
Tools Required									1.175	1.470	1.760	2.030	2.450	
									Small Silver Die (80C-VXX) and Adapter Bowl (83C-OCB)					
Die					80C-H585	80C-H735		80C-H840	80C-H970	80C-H1120	80C-H1365			
AX				0.575	0.725	0.830	0.960	1.110	1.355					
Tools Required				0.595	0.745	0.850	0.980	1.130	1.375					
Die				80C-H605	80C-H775	80C-H885	80C-H1010	80C-H1170	80C-H1465					
BXX				0.635	0.805	0.915	1.040	1.200	1.495					
Tools Required				0.655	0.825	0.935	1.060	1.220	1.515					
Die				80C-H595			80C-H735	80C-H860	80C-H1015	80C-H1170	80C-H1365			
611HT	801	836	HY Series	0.575			0.720	0.860	0.995	1.140	1.350			
Tools Required				0.595			0.740	0.880	1.015	1.160	1.370			
				Small Silver Die (80C-HXXX or 80C-HXXXX) and Adapter Bowl (83C-OCB)										
Die														
Tools Required														

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Caution: Read the operations and technical manual before attempting to operate this machinery. Do not operate this machine without guard in place. Keep hands clear of moving parts when operating machine.



NOTE: 1. The 83C-R12 split die ring is used for all crimping operations. 2. Stainless steel crimping diameters are 0.010" greater than table listings with the exception of stainless steel HY series fitting which are 0.005" greater than the table listings. 3. Do not use lubricant to assemble spiral hose and fittings.

For a new decal, contact Parker at: 1-800-C-PARKER or print your own at [www.parker.com/crimpsource](http://www.parker.com/crimpsource).

## Minikrimp™

**Capability**

- Up to 1" ID 2 wire braided hose
- Only steel fittings

**Features**

- Light weight, portable, compact all-in-one unit
- Handpump or air over hydraulic design
- Removable pusher design for easy die change out
- Reference page C-16 for information on available power units
- For use with 25, 26, 43, 81, and HY Series fittings
- Do not crimp stainless steel fittings

**Specifications**

- Dimensions: 6" wide, 13" deep, 15" high
- Weight: 42 lbs (with hand pump)
- Rating: 30 ton force @ 10,000 psi maximum
- Full Cycle Time: 30 seconds

**Important**

The Minikrimp was developed by Parker Hannifin Parflex Division but is compatible with Parker Hannifin Hose Products Division products. Refer to CrimpSource™ on [www.parker.com/crimpsource](http://www.parker.com/crimpsource) (the online resource for hose crimp specifications for the complete line of Parker crimping machines). Any engineering and crimper performance issues pertaining to the Minikrimp should be directed to the Parflex Division, Technical Services Department, at (330) 296-2871 or fax, at (330) 296-8433.

**Note:**

- For crimp instructions, see pages C-18 and C-19.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- 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**

Part Number		Description	Individual Part Number
94C- 001-PFD	94C- 002 -PFD		
●	●	Base unit	94C-080-PFD
●		Hand pump	015301
	●	Air over hydraulic pump kit with tubing and adapters	025411
●	●	Silver die ring	82C-R01-PFD

**Optional Tooling**

- Side Vise Mount (015736)
- Upright Table Mount (015306)
- Upright Vise Mount (015307)
- Black Die Ring (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)

## Minikrimp™ Hose Die Selection Chart

Minikrimp™ Hose Die Selection Chart										
Hose	Fittings	Hose/Die Selection and Crimp Diameters 4/11								
		- 4 RED	- 5 PUR	- 6 YEL	- 8 BLU	- 10 ORG	- 12 GRN	- 16 BLK	Die Ring	
Die		80C-A04	80C-A05	80C-A06	80C-A08	80C-A10	80C-A12	80C-A16		
351TC 431 471ST 351ST 436 472TC 422 451TC 482T 424 451ST 482ST 426 471TC	43 Series	0.645 0.665	0.710 0.730	0.825 0.845	0.945 0.965	1.060 1.080	1.245 1.265	1.590 1.610	 Silver	
421WC 304 601 302/301 341 604 301LT 381 881 722TC (-6, -8, -10 only)		0.685 0.705	0.750 0.770	0.865 0.885	0.985 1.005	1.100 1.120	1.285 1.305	1.630 1.650	 Black	
Die		80C-E04	80C-E05	80C-E06	80C-E08	80C-E10	80C-E12	80C-E16		
213 285 293	26 Series	0.460 0.480	0.520 0.540	0.575 0.595	0.670 0.690	0.805 0.825	0.915 0.935	1.175 1.195	 Silver	
201 225 266 206 244 221FR SS25UL		0.500 0.520	0.560 0.580	0.615 0.635	0.710 0.730	0.845 0.865	0.955 0.975	1.215 1.235	 Black	
Die							80C-V12	80C-V16		
811 811HT 881	81 Series						1.155 1.175	1.450 1.470	 Silver	
Die		80C-H585		80C-H735	80C-H840	80C-H970	80C-H1120			
AX	HY Series	0.595 0.575		0.745 0.725	0.850 0.830	0.980 0.960	1.130 1.110		 Silver	
Die		80C-H605		80C-H775	80C-H885	80C-H1010	80C-H1170			
BXX		0.655 0.635		0.825 0.805	0.935 0.915	1.060 1.040	1.220 1.200		 Black	
Die		80C-H595		80C-H735	80C-H860	80C-H1015	80C-H1170	80C-H1365		
611HT 801 836		0.575 0.595		0.720 0.740	0.860 0.880	0.995 1.015	1.140 1.160	1.350 1.370	 Silver	

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Caution: Read the operations and technical manual  
before attempting to operate this machinery. Keep  
hands clear of moving parts when operating machine.

NOTE: Do not use this machine to  
assemble stainless steel fittings with  
any hose listed on this chart

For a new decal, print your own at [www.parker.com/crimpsource](http://www.parker.com/crimpsource).

A

**Hand Pump**

Part No. 82C-0HP

*(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)*

Ease of operation hand pump delivers 10,000 psi

Length: 23"  
Width: 4"  
Height: 5"  
Port Size: 3/8" NPTF  
Weight: 9 lbs  
Hydraulic Fluid: Enerpac oil

**Hand Pump**

Part No. 85C-0HP

*(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)*

Ease of operation hand pump delivers 10,000 psi

Length: 29"  
Width: 13"  
Height: 11"  
Port Size: 3/8" NPTF  
Weight: 61 lbs  
Hydraulic Fluid: Enerpac oil

B

**Electric Pump**

Part No. 82C-0EP

*(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)*

Ease of operation electric pump delivers 10,000 psi

Length: 13"  
Width: 13"  
Height: 15"  
Port Size: 3/8" NPTF  
Weight: 31 lbs  
Hydraulic Fluid: Enerpac oil  
115 volt, 1 phase, 50/60 Hz, 9 amp

**Electric Pump**

Part No. 85C-0EP

*(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)*

Heavy duty electric pump delivers 10,000 psi at a faster cycle time

Length: 19"  
Width: 11"  
Height: 17"  
Port Size: 3/8" NPTF  
Weight: 59 lbs  
Hydraulic Fluid: Enerpac oil  
115 volt, 1 phase, 50/60 Hz, 20 amp

C

D

**Air/Hydraulic Pump**

Part No. 82C-0AP

*(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)*

Lightweight pump operates with 80-110 psi shop air pressure and delivers 10,000 psi

Length: 15"  
Width: 6"  
Height: 6"  
Intake Port Size: 1/4" NPTF  
Output Port Size: 3/8" NPTF  
Weight: 14 lbs  
Hydraulic Fluid: Enerpac oil

**Vehicle Battery-Powered Pump**

Part No. 85C-12V

*(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)*

Ideal unit for Parker Mobile Hose Preplacement Service, Delivering 10,000 psi.

Length: 12"  
Width: 8"  
Height: 19.5"  
Weight: 67 lbs  
Hydraulic Fluid: ISO-46

E

**Enerpac Warranty Statement**

Enerpac products are warranted to be free of defects in materials and workmanship. Any product that does not conform to specification will be repaired or replaced at Enerpac's expense, anywhere in the world; simple as that! This warranty does not cover ordinary wear and tear, abuse, misuse, alterations, or the use of improper fluids. Determination of the authenticity of a warranty claim will be made only by Enerpac or its Authorized Service Centers.



# www.parker.com/crimpsource

Crimpsource is the industry's most complete resource for crimper technical information. It contains all of the crimp specifications approved for Parker's rubber, industrial and thermoplastic hose:

- Crimp specs
- PDFs of technical manuals for easy downloading
- Parts lists
- Troubleshooting advice
- PDFs of crimper decals for immediate printing

Crimpsource provides easy access to all the specifications necessary to correctly fabricate a factory quality hose assembly.

## Crimpsource Spec Page

Print your own crimp decals  
whenever you need to

## Crimpsource Home Page

A series of dropdown menus enables users to find what they need quickly and easily.

Choose your crimper, and then select the hose, fittings and current specifications needed to make hose assemblies.

You can also print a simple-to-follow data specification sheet or crimper decal.

**Parker Crimpsource**

Monday, January 18, 2010

Hose Style: 423 Coupling Style: Karrykrimp 2 Hose: ISO 4439-1 Type 100

Hose	Coupling	Size	Die Ring	Crimp Diameter	Crimp Length	Hose Insertion	Reference Drawing
H12-4	H12-4	1/2" x 1/2" Red	PTC-H12-4	0.441 / 0.443	1/4"	0.118	017
H12-8	H12-8	3/8" x 3/8" Nylon	PTC-H12-8	0.331 / 0.333	1/4"	0.118	017
H12-10	H12-10	1/2" x 1/2" Nylon	PTC-H12-10	0.441 / 0.443	1/4"	0.118	017
H12-12	H12-12	3/4" x 3/4" Nylon	PTC-H12-12	0.551 / 0.553	1/4"	0.118	017
H12-14	H12-14	1" x 1" Nylon	PTC-H12-14	0.661 / 0.663	1/4"	0.118	017
H12-16	H12-16	1 1/4" x 1 1/4" Nylon	PTC-H12-16	0.811 / 0.813	1/4"	0.118	017
H12-18	H12-18	1 1/2" x 1 1/2" Nylon	PTC-H12-18	0.911 / 0.913	1/4"	0.118	017
H12-20	H12-20	2" x 2" Nylon	PTC-H12-20	1.111 / 1.113	1/4"	0.118	017
H12-22	H12-22	2 1/4" x 2 1/4" Nylon	PTC-H12-22	1.261 / 1.263	1/4"	0.118	017

**COMMENTS**  
Crimp dimensions for stainless steel fittings are 0.002 (0.001mm) greater than listed.

**Reference Drawing 127**

CRIMP LENGTH  
CRIMP DIAMETER  
PARKER CRIMP DIE

**Parker Crimpsource**

Monday, January 18, 2010

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Enter keyword Enter part number Search

**Parker Crimpsource**

Karrykrimp 2

Crimp Spec  
Manual  
Part List  
Dies  
Calibration  
Troubleshooting  
Crimp Decal

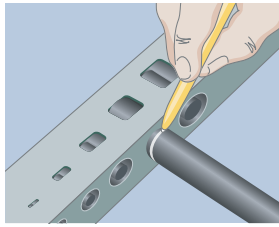
Crimpsource Online is your source for all information on Parker crimpers. Begin by selecting your crimp machine below. To see crimp specifications, click the "Crimp Spec" button at left.

See the Parker Safety Guide and the Offer of Sale for crimping and safety information.

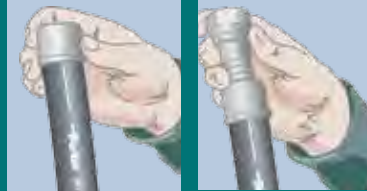


**Crimping using Minikrimp, Karrykrimp, Karrykrimp Bench Mount, Karrykrimp 2 and Karrykrimp 2 Bench Mount**

Parkrimp Fittings Series 25, 26, 43, 70, 71, 73, 76, 78, S6, 81, HY

**1 Mark insertion depth and push on fitting**

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 if using spiral hose**. See Hose Insertion Depth table below.

**For 81 Series Shells with 88 Series Fittings**

Place shell onto end of hose and make sure the end of the shell lines up with the Insertion Depth mark.

Push hose onto the 88 Series fitting until the shell bottoms against the fitting's stop ring or hex. Lubricate hose if necessary.

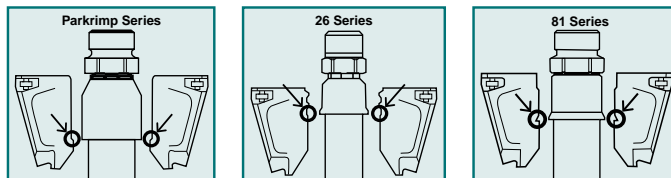
**2 Insert unitized die train**

Pull pin at the top of pusher to swing it back. Place unitized die-train into base plate. See decal on crimper for proper die set.

**Note: Parkrimp 1 does not have a pin at the top of the pusher.**

**Important:** Lubricate the crimper's die bowl using a premium quality lithium-base grease.

Color-Coded Unitized Die-Train

**3 Position the fitting**

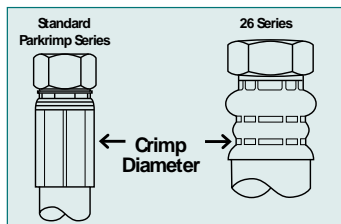
Position the hose and fitting in dies from below. Rest bottom of coupling on die step using the PARKALIGN® feature.

**4 Place die ring and crimp**

Place correct die ring on top of the dies. See decal on crimper for proper die ring.



Position pusher by replacing the pin and operate pump until the die ring bottoms out. Release pressure within the pump — remove finished assembly.

**5 Measure crimp diameter**

Measure crimp diameter on the flat surfaces of the crimped shell, referenced in the illustration to the left. Reference decal on crimper for crimp diameters. Never use hose assemblies with incorrect crimp diameters.

**Important:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

**Note:** Minikrimp, Karrykrimp & Karrykrimp 2 have several types of power sources, all of which are separate units from the crimping machine.

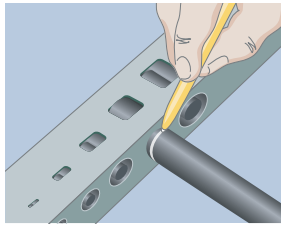
**Hose insertion depths**

Fitting Size			Fitting Series																						
	25		26		43		70		71		73		77		78		S6		79		81		HY		
	inch	mm	inch	mm	inch	mm	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	7/8	22	13/16	21	1-1/8	29	1-1/16	27	1-1/16	27	—	—	—	—	—	—	—	—	—	—	—	—	—	1-1/2	40
-8	7/8	22	13/16	21	1-5/16	33	1-5/16	33	1-1/4	32	—	—	1.36	34.6	—	—	—	—	—	—	—	—	—	1-9/16	40
-10	—	—	7/8	22	1-9/16	40	1-3/8	35	1-5/16	33	—	—	1.53	38.9	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	1.78	45.2	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	2.13	54.1	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	2.51	63.8	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	—	—	—	—	3-1/2	88	—	—	1-11/16	43	—	—	

For specific information on crimping, visit Crimpsource™ online at [www.parker.com/crimpsource](http://www.parker.com/crimpsource).

**Crimping using Superkrimp and Parkrimp 2**

Parkrimp Fittings Series 25, 26, 43, 70, 71, 73, 76, 78, S6, 81, HY

**1 Mark insertion depth and push on fitting**

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 if using spiral hose.** See Hose Insertion Depth table on previous page.

**For 81 Series Shells with 88 Series Fittings**

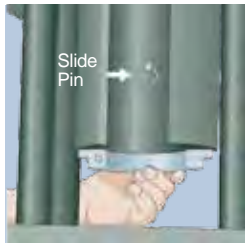
Place 81 Series Shell onto end of hose and make sure the end of the shell lines up with the Insertion Depth mark.



Push hose onto the 88 Series fitting until the shell bottoms against the fitting's stop ring or hex. Lubricate hose if necessary.

**2a If using large two-piece dies**

Insert the proper 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 accommodate bent tube fittings.) Reference decal on crimper for proper tool selection.

**2b If using small unitized dies**

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.)



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.



Color-Coded  
Unitized  
Die-Train

Lubricate die bowl using a premium quality lithium-base grease. Place unitized die-train into the adapter bowl. Select die and die ring by hose size and type. See decal on crimper for proper die set.

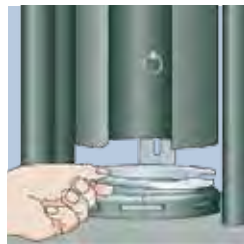
**Note:** Die sets have color-coded cavities indicating size and have the fitting series and dash size stamped on the top.

**3 Place spacer ring**

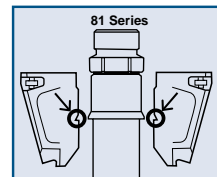
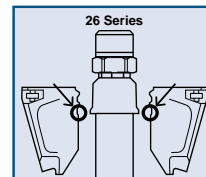
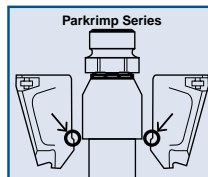
If required, place spacer ring on locating step of adapter bowl. Reference decal on crimper for tool selection.

**4 Position the split die ring**

Lower the back half of the split die ring onto the dies by pulling the slide pin forward.



Insert the front half of the split die ring aligning the pins in the back half with the hole in the front half.

**5 Position the fitting**

Position the hose and fitting in dies from below.

Rest bottom of coupling on die step using the PARKALIGN® feature.

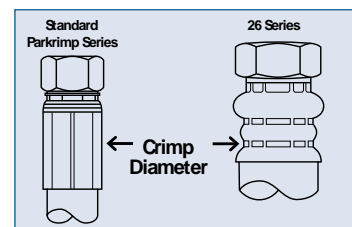
**6 Crimp hose**

Turn on the pump by pressing 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.

**Note:** You do not have to remove any tooling to insert or remove 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.

**7 Measure crimp diameter**

Measure crimp diameter on the flat surfaces of the crimped shell, referenced in the illustration to the right. Reference decal on crimper for crimp diameters. Never use hose assemblies with incorrect crimp diameters.



**Important:** Hose assemblies must be inspected for cleanliness and free of all foreign particles.

## Assembling Twin Tough Rubber Hose

A

### Required Equipment:

Twin Tough hose, fittings, knife, tape measure, heat shrink sleeve, scissors, grease pencil, heat gun, and calipers.



B

### Set-up:

Position the bonded rubber hose so that it lies flat on a work surface without tendency to twist or turn.

### Measure hose tear back length:

Measure and mark the length that the hoses are to be separated. A minimum of 12 inches is required for crimping the hose ends. A 24 inch tear back is recommended for use with hydraulic tools.



C

Note: If length of separation/tear back is specified from the threaded or swivel nut end of the coupling, then deduct the cut off allowance dimension for the specific style of coupling used. The cutoff allowance can be obtained from the hose fitting tables in the 4400 Catalog "B" dimension, or can be calculated by subtracting the insertion depth of the shell from the overall coupling length.

D

### Cut hose tear back to length:

Press the bonded hose assembly firmly and flat against the work surface with your free hand so that it does not move.

A.) Using a sharp blade, pierce the center of the valley (web) formed by the hoses.



B.) To start the cut, place the blade in the center of that valley (web) drawing the knife with constant pressure.



C.) Once you have a 1 to 2 inch starter cut, firmly pull each hose end apart to your required separation length.



E

Note: It is important that the knife blade be perpendicular to the hose during this procedure so the blade cuts only the centerline of the valley (web). EXTREME CARE MUST BE TAKEN TO AVOID CUTTING THROUGH THE COVER OF THE HOSES AND THEREBY EXPOSING THE HOSE REINFORCEMENT. If this occurs, the hose assembly must be discarded.

**Measure Separation:** It is suggested that the separation length be at least 12 inches, so the crimping operation can be accomplished without risk of kinking the hoses.



**Stopping Separation:** Parker recommends installing a heat shrink sleeve of at least 2 inches in length at the termination of the separated hose to provide protection against tearing of the valley (web) or hose covers. This heat shrink sleeve should be placed on the hose assembly prior to the crimping of the hose fittings. Once you have your heat shrink sleeve in place, use a heat gun to shrink the sleeve in place.



Note: EXTREME CARE MUST BE TAKEN TO AVOID EXPOSING THE HOSE ASSEMBLY TO THE DIRECT HIGH TEMPERATURES OF THE HEAT GUN WHILE INSTALLING THE HEAT SHRINK SLEEVE. LONG EXPOSURE FROM A HEAT GUN MAY ADVERSLEY AFFECT THE HOSE INNERTUBE OR ITS COVER.

**Crimping Fittings:** All of your crimping information can be found on Crimpsource ([www.parker.com/crimpsource](http://www.parker.com/crimpsource)).

First, place your fittings onto each hose end making sure that both have been installed to the correct hose insertion depth. Choose the correct die and die ring. Place half of your hose assembly through the bottom of your Parkrimp crimper. Rest the bottom of the fitting on the die step using the Parkalign system. While lightly holding the hose assembly, operate your crimper pump so that the pusher on the crimper comes down in contact with the die ring until it bottoms out on the crimper base. Then release the pressure within the pump and remove the first half of your finished assembly. Always measure your hose assemblies for the correct crimp diameter. Now, repeat the crimping process on the other fitting.



Note: EXTREME CARE MUST BE TAKEN TO AVOID KINKING THE HOSE THAT IS NOT BEING CRIMPED DURING THIS PROCESS.



A



## Hydraulic Press Kit

Part No. 8PC-001

For use with 26, 43, 81 and HY Series Fitting **ONLY**

### Specifications

- Required Height from Press Base to Press Ram: 10 inches
- Required Width of Bowl Diameter: 5 inches
- Bowl Rating: 30 tons force maximum
- Minimum Required Press Capacity: Hose Size 1/4" to 1/2" needs a 20 ton press  
Hose size 5/8" to 1-1/4" needs a 30 ton press

### Standard Equipment

Part Number 8PC-001	Description	Individual Part Number
●	Bowl Assembly	8PC-030
●	Pusher	8PC-00P
●	Silver Die Ring	81C-R01
●	Black Die Ring	81C-R02
●	43 Series dies in 1/4", 3/8", 1/2", 3/4" and 1"	80C-Axx

B

## Weatherhead Conversion Kit

Part No. 8WC-001

For use with 26, 43, 81 and HY Series Fitting **ONLY**

Convert **Weatherhead T-400 crimper** to utilize Parker Parkrimp No-Skive fittings.

### Standard Equipment

Part Number 8WC-001	Description	Individual Part Number
●	Bowl Assembly	8PC-030
●	Pusher	8WC-00P
●	Silver Die Ring	81C-R01
●	Black Die Ring	81C-R02
●	43 Series Dies in 1/4", 3/8", 1/2" and 3/4"	80C-Axx

C



D

## Gates Conversion Kit

Part No. 8GC-002

For use with 26, 43, 81 and HY Series Fitting **ONLY**

Convert **Gates 701, 703 and 707 bottom loading crimpers** to utilize Parker Parkrimp No-Skive fittings.

### Standard Equipment

Part Number 8GC-002	Description	Individual Part Number
●	Bowl Assembly	8PC-030
●	Silver Die Ring	81C-R01
●	Black Die Ring	81C-R02
●	43 Series Dies in 1/4", 3/8", 1/2", 3/4" and 1"	80C-Axx

E



#### Notes:

- For additional information and operating instructions, visit the Parker Hose Products Division website at [www.parkerhose.com](http://www.parkerhose.com).
- For crimping instructions, see pages C-18 and C-19.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.

## Hose Cut-Off Machine - Karrykut

Part No. 631075



### Features

- Portable saw for cutting on the job
- Unique clamp system spreads hose as it cuts to prevent blade binding
- Cuts multi-braided wire reinforced hose including 4 spiral construction up to 1-1/4" I.D.

### Specifications

- Dimensions: 16" wide x 12" long x 19" high
- Shipping Weight: 58 lbs.

### Standard Equipment

Part Number 631075	Description	Individual Part Number
●	Power saw with 115volt (13 amp) universal AC motor	631140
●	Universal clamp attachment (can be used with any portable power saw unit having a 5/8" arbor, 7" blade capacity)	631076
●	Cutting blade (7" with 5/8" arbor size)	621102

## Hose Cut-Off Machine

Part No. TH3-51



### Features

- Standard 14" scalloped blade
- Front plate with useable pins easily holds in place for a straight cut
- Clear face shield
- Cuts 1 & 2 wire braid through 2" I.D., 4-wire spiral through 2" I.D., and 6-wire spiral through 1" I.D.

### Specifications

- 4.5 HP/115 volts 20 amp 1PH 50/60 cycle motor (a 20 amp dedicated circuit is recommended)
- Dimensions - 22-1/2" wide x 13" long x 25-1/2" high
- Shipping weight - 67 lbs.
- Blade size - 14" x 0.125" x 1"

### Saw Part Number: TH3-51

- Optional Equipment:
- Scalloped Cutting Blade (TH3-50-1)
- Smooth Bevel Cutting Blade (TH3-50-2)

## Hose Cut-Off Machine

Part No. 332T-115V



### Features

- For quick, easy cutting of spiral reinforced hose up to 1-1/4" I.D.
- Moving parts shielded by guards

### Specifications

- Dimensions: 13" wide x 26" long x 22" high
- Shipping Weight: 71 lbs.

### Standard Equipment

Part Number 332T-115V	Description	Individual Part Number
●	Hose Cut-Off Machine with 1-1/2 HP, 3450 RPM, 115/230V single phase electric motor wired for 115V	
●	Scalloped Cutting Blade (8" with 5/8" arbor size)	24398

### Optional Equipment

- Smooth Cutting Blade (580661)

## Hose Cut-Off Machine

Part No. 239 and 339



### Features

- Designed for heavy duty use
- Cuts multi-braided wire reinforced hose including 6 spiral construction up to 2" I.D.

### Specifications

- Dimensions: 22" wide x 42" long x 24" high
- Shipping Weight: 115 lbs.

### Standard Equipment

Part Number 239	Part Number 339	Description	Individual Part Number
●		Hose Cut-Off Machine with 230V single phase motor	
	●	Hose Cut-Off Machine with 3 HP motor 230V, 3 phase, 60 cycle	
●	●	Scalloped Cutting Blade (10" with 3/4" arbor size)	24248

### Optional Equipment

- Smooth Cutting Blade (15960)

## Ultra Clean Hose Cleaning Kit



Part No. TH6-10-HL-9-2

### Features

- Capable of cleaning 1/4" through 2" hose, tube or pipe
- The launcher is supplied with a Full-Flow Quick Release Coupling and unique 360° Rotary Plug for proper air flow and non-fatigue operator use
- Unique Safety Release Bar that locks the faceplate into a closed position for firing Ultra Clean projectiles

### Air Requirements:

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum
- 1/2" I.D. air hose
- 5 micron filter and regulator with gauge are strongly suggested



## Economy Hose Cleaning Kit



Part No. TH6-10-EL-7

### Economy Kit Features

- Capable of cleaning 1/4" through 1-1/4" hose, tube or pipe
- Has a quarter-turn locking ring for easy nozzle change and projectile loading
- The launcher is constructed of durable brass and aluminum internals, strong plastic handle, and anodized aluminum firing head and locking ring.
- Ideal for mobile and job site applications because of its size and portability

### Air Requirements:

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum
- 1/2" I.D. air hose
- 5 micron filter and regulator with gauge are strongly suggested

### Optional Equipment & Accessories:

- A range of projectiles are available enabling the Ultra Clean System to be used on different sizes and types of hose, as well as coupling configurations
- Additional nozzles for JIC, Code 61 and Code 62 flanges, and ORFS are also available if required



# Ultra Clean Hose Cleaning Kit

## Sizing Chart and Part Numbers

HOSE ONLY		
Hose Size	Nozzle Part Number	Projectile Part Number
3/16"	TH6-10-H06	TH6-10-P06
1/4"	TH6-10-H06	TH6-10-P10
3/8"	TH6-10-H10	TH6-10-P14
1/2"	TH6-10-H13	TH6-10-P18
5/8"	TH6-10-H16	TH6-10-P22
3/4"	TH6-10-H19	TH6-10-P26
1"	TH6-10-H25	TH6-10-P33
1-1/4"	TH6-10-H32	TH6-10-P40
1-1/2"	TH6-10-H38	TH6-10-P50
2"	TH6-10-H50	TH6-10-P60

HOSE ASSY W/FJIC		
FJIC Size	Nozzle Part Number	Projectile Part Number
1/4"	TH6-10-J06	TH6-10-P06
3/8"	TH6-10-J10	TH6-10-P12
1/2"	TH6-10-J13	TH6-10-P16
5/8"	TH6-10-J16	TH6-10-P22
3/4"	TH6-10-J19	TH6-10-P26
1"	TH6-10-J25	TH6-10-P33
1-1/4"	TH6-10-J32	TH6-10-P40
1-1/2"	TH6-10-J38	TH6-10-P50
2"	TH6-10-J50	TH6-10-P60

HOSE ASSY W/FFORX		
FFORX Size	Nozzle Part Number	Projectile Part Number
1/4"	TH6-10-4FFORX	TH6-10-P06
3/8"	TH6-10-H06	TH6-10-P12
1/2"	TH6-10-H10	TH6-10-P16
5/8"	TH6-10-H13	TH6-10-P22
3/4"	TH6-10-H16	TH6-10-P26
1"	TH6-10-H19	TH6-10-P33
1-1/4"	TH6-10-H25	TH6-10-P40

HOSE ASSY W/Code 61 & 62 Flanges		
Flange Size	Nozzle Part Number	Projectile Part Number
1/2"	TH6-10-H10	TH6-10-P16
3/4"	TH6-10-H16	TH6-10-P26
1"	TH6-10-H19	TH6-10-P33
1-1/4"	TH6-10-H25	TH6-10-P40
1-1/2"	TH6-10-H32	TH6-10-P50
2"	TH6-10-H38	TH6-10-P60

PROJECTILE QUANTITIES		
Parker Part Number	Description	Qty.
TH6-10-P06	PROJECTILE 3/16"	100 PER BAG
TH6-10-P10	PROJECTILE 1/4"	100 PER BAG
TH6-10-P12	PROJECTILE 1/4" AND 5/16"	100 PER BAG
TH6-10-P14	PROJECTILE 3/8"	100 PER BAG
TH6-10-P16	PROJECTILE 3/8"	100 PER BAG
TH6-10-P18	PROJECTILE 1/2"	100 PER BAG
TH6-10-P22	PROJECTILE 5/8"	50 PER BAG
TH6-10-P26	PROJECTILE 3/4"	50 PER BAG
TH6-10-P33	PROJECTILE 1"	40 PER BAG
TH6-10-P40	PROJECTILE 1-1/4"	30 PER BAG
TH6-10-P50	PROJECTILE 1-1/2"	20 PER BAG
TH6-10-P60	PROJECTILE 2"	15 PER BAG

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**Hose Cut-Off Tool - Handykut**

Part No. 871522

**Features**

- Portable tool for efficient cutting of hose
- Can be 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

**Specifications**

- Dimensions: 6" wide x 18" long x 6" high
- Shipping Weight: 10 lbs.

**Push-Lok Cut-Off & Assembly Tool**

Part No. 881540

**Features**

- Combined hose cutter and toggle action press that cuts and assembles Parker Push-Lok in sizes 1/4" through 3/4" I.D.

**Specifications**

- Dimensions: 16" long
- Shipping Weight: 4 lbs.

**Hose Insertion Depth Blocks**

Part No. TH9-1-XXX

**Features**

- For quick easy marking of hose insertion depth
- Ensures accuracy and increased productivity

**Available Blocks**

Part Number	Description
TH9-1-26A	26 Series -4 through -10
TH9-1-26B	26 Series -12 through -32
TH9-1-43A	43 Series -4 through -10
TH9-1-43B	43 Series -12 through -32
TH9-1-70	70 Series -6 through -20
TH9-1-71	71 Series -6 through -32
TH9-1-73	73 Series -12 through -32
TH9-1-77	77 Series -8 through -16
TH9-1-78	78 Series -12 through -32
TH9-1-79	79 Series -12 through -24
TH9-1-HY	HY Series -4 through -16

**Hose Cut-Off Tool**

Part No. 316

**Features**

- Small in size and easy to use
- Quick cutting of textile reinforced hose
- Ruggedly built for years of trouble-free service

**Specifications**

- Dimensions: 15" long
- Shipping Weight: 6 lbs.

## Hose Cut-Off Tool

Part No. TH11-1



### Features

- Designed for quick, easy cutting of textile reinforced hose.
- Squarely cuts Push-Lok hose in sizes 1/4" through 3/4" I.D.

### Specifications

- Dimensions: 8" long
- Shipping Weight: 0.3 lbs.

## Hozemblem

Part No. 432-115V



### Features

- Power machine to facilitate the attachment of field attachable fittings
- Handles all hose and fittings up to 4 spiral wire, in sizes 3/16" through 2" I.D., including bent tube elbows
- Comes with vise, all adapters, foot switch and safety guard with 115V, 30 amp, universal AC motor

### Specifications

- Shipping Weight: 141 lbs.

### Optional Parts

- Mounting stand (662451)

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## Die Storage Racks

Part No. 80C-0DR and 83C-0DR



### Features

- Modular die rack designed to hold small and large Parkrimp dies
- Can be bolted together to a work bench horizontally or vertically

### Standard Equipment

Part Number		Description
80C-0DR	83C-0DR	
●		Storage of three sets of small dies
	●	Storage of two sets of large dies

## Swivel Die Rack

Part No. 80C-SDR-XXXX



### Features

- Holds up to 30 Parkrimp dies of any size
- Powder-coated, heavy-duty steel construction
- Consists of a base unit and up to five circular holders
- Floor or bench mounted

### Standard Equipment

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

**Fitting Push-On Stand**

Part No. TH2-7

**Features**

- Quickly and easily pushes fittings onto hose
- Boosts productivity and quality
- Eliminates the need of rubber mallets and oils to get fittings onto the end of the hose for crimping
- Standard with straight tooling required for sizes 1/4" through 2" for all crimped fittings, 82 Series Push-Lok and 88 Series field attachable fittings

**Specifications**

- Shipping Weight: 200 lbs.

**Optional Tooling**

- Elbow Pusher Set (TH2-7-ELS)

**Mandrel Tool Kit - 22 Series**

Part No. 652200

**Features**

- For assembly of Parker 22 Series field attachable fittings
- One of each part listed below is included in the kit

**Standard Equipment**

Hose I.D.	Dash Size	SAE (JIC) 37°	SAE 45°
3/16	-4	●	●
1/4	-5	●	●
5/16	-6	●	●
13/32	-8	●	●
1/2	-10	●	●
5/8	-12	●	●

**Mandrel Tool Kit - 23 Series**

Part No. 2727 and 2726

**Features**

- For assembly of Parker 23 Series field attachable fittings
- Part No. 2727 is for JIC 37° flared fittings
- Part No. 2726 is for SAE 45° and PTT 30° flared fittings

**Standard Equipment**

Hose I.D.	Dash Size	2727	2726
3/16	-4	●	●
1/4	-5	●	●
5/16	-6	●	●
13/32	-8	●	●
1/2	-10	●	●
5/8	-12	●	●
7/8	-16	●	●

**Mandrels - 25 Series**

(For 271 Transportation Hose)

Part No. TH2-7M25-6 and TH2-7M25-8



**Assembly Tools - 22 Series**

Part No. 652201

**Features**

- For assembly of Parker 22 Series field attachable fittings
- One of each part listed below is included in the kit

**Standard Equipment**

Hose I.D.	Dash Size	SAE (JIC) 37°	SAE 45°
7/8	-16	●	●
1-1/8	-20	●	●
1-3/8	-24	●	●
1-13/16	-32	●	

**Hose Perforator**

Part No. 601069

**Features**

- Small hand tool to prick minute holes in the rubber cover
- To be used in gaseous applications where the pressure exceeds 250 psi
- Driven into the cover every few inches of length either striking the hose or by a rolling action over the hose cover
- Not generally necessary to perforate the hose on all sides

**Specifications**

- Shipping Weight: 2 lbs.

**Hose Oil**

Part No. Hose Oil

**Features**

- Reduces torque and eliminates waste lubrication
- Use hose oil with the recommended hose assembly instructions

**Accrolube**

Part No. Accrolube

**Features**

- High efficiency lubricant used for stainless steel field attachable fittings
- Contains Teflon to reduce the wear between metal surfaces, protects against corrosion and ultimately eliminates galling

**Small Crimper Hood**

Part No. 82C-CVR

**Features**

- Water repellant
- UV protected
- Perfect for indoor and outdoor applications

**Fits**

- Karrykrimp, Parkrimp, Karrykrimp2, Minikrimp

**Large Crimper Hood**

Part No. 83C-CVR

**Features**

- Water repellant
- UV protected
- Perfect for indoor and outdoor applications

**Fits**

- PHastkrimp, Superkrimp, Parkrimp2

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More of what you need to work smarter, faster, and better. Visit [www.parkerhose.com](http://www.parkerhose.com) for up-to-the-minute accessory selections.


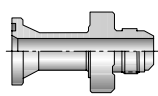
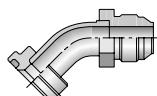
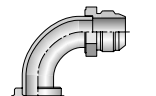
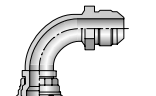
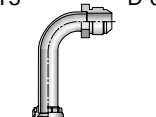
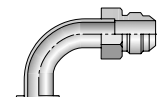
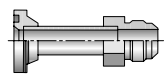
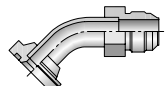
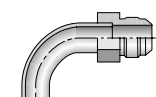
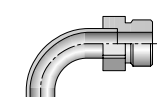
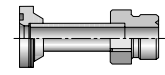
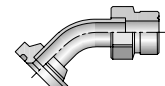
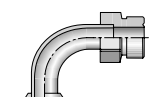
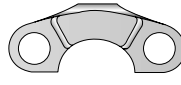

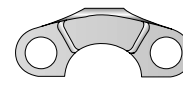
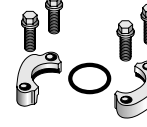
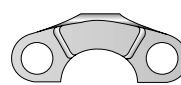


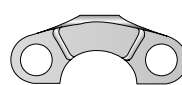
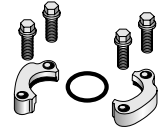

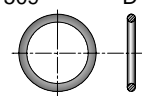









## Accessories



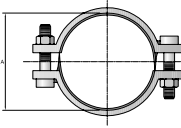



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ENGINEERING YOUR SUCCESS.



	15T3	D-5		17T3	D-5		19T3	D-5		39T3	D-6		41T3	D-6	
			<i>Straight</i>			<i>45° Elbow</i>			<i>90° Elbow</i>			<i>Swivel Nut 90° Tube Elbow</i>			<i>Swivel Nut 90° Tube Elbow - Long</i>
4AH3	D-6	4FH3	D-7	4NH3	D-7		6AH3	D-7		6FH3	D-7		6NH3	D-8	
		<i>Straight</i>				<i>90° Elbow</i>			<i>Straight</i>			<i>45° Elbow</i>			<i>90° Elbow</i>
4AJM	D-8	4FJM	D-8	4NJM	D-8		6AJM	D-9		6FJM	D-9		6NJM	D-9	
		<i>Straight</i>				<i>90° Elbow</i>			<i>Straight</i>			<i>45° Elbow</i>			<i>90° Elbow</i>
Standard Pressure (Code 61)	D-10	High Pressure (Code 62)	D-10	50H	D-10		5050HK	D-11		51H	D-11		5151HK	D-11	
						<i>Flange Half 5000 psi (Code 61)</i>			<i>Flange 5000 psi (Code 61) Kit</i>			<i>Flange Half (Code 61)</i>			<i>Flange (Code 61) Kit</i>
HFH	D-12	HFHFHK	D-12	8FH	D-12		8FHFHK	D-12		FFK61	D-13		M1H	D-14	
						<i>Flange Half (Code 62)</i>			<i>Flange (Code 62) Kit</i>			<i>Full Flange Kit</i>			<i>ISO (Code 61)</i>
M1M1HK	D-14	M2H	D-15	M2M2HK	D-15		XCXCHK	D-15				711509	D-16		
						<i>ISO (Code 61) Kit</i>			<i>ISO (Code 62)</i>						
						<i>ISO (Code 62) Kit</i>			<i>CAT Flange Kits</i>						
711510	D-16	C9RG	D-16	C9RG	D-16		D9DT	D-16		J0RG	D-17		XARG	D-17	
						<i>O-Rings for CA, CE, CF Metric</i>			<i>Bonded Seal for BSPP Port Fittings</i>						<i>Flange "D" Rings Caterpillar® Style Flanges</i>
						<i>O-Rings for C9, OC, 1C Metric Swivels</i>									
8ARG	D-17	59RG	D-18	T1RG	D-18		CORG	D-18				Partek Wrap	D-19		
						<i>Tube O-Ring Fittings and Compressor Fittings</i>			<i>O-Rings for Compression Fittings (IT126)</i>						
						<i>Flange "D" Rings</i>									

Partek Sleeve D-20	PolyGuard (HG) D-21	ParKoil™ (PG) D-21	Spring Guard (SG) D-22 Armor Guard (AG)	Polyguard Strain Reliever D-22	Firesleeve (FS-F) D-23
					
FSC Clamp D-23	Firesleeve Accessories D-24	Firesleeve Assembly Instructions D-24	CL Clamp D-25	HC Clamp D-26	88HC-H Clamp D-26
					
88DB Clamp D-26	Protection Shields D-27	Hose Assembly Workstations		HoseFab Table D-29	Rotary Reel Rack D-29
					
Saw Table D-29	3/4 Reel Rack D-29	Parker Kart D-30	72B-Cabinet D-30	HR6 Hose Bin D-30	Hose Adapters
					
Hose Adapters D4					
					

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## SAE/NPT/Metric Hose Adapters

**O-Ring Face-Seal  
Seal-Lok™**

Sizes: 6 mm – 38 mm  
Materials: Steel,  
Stainless Steel  
Pressures: Up to  
9200 psi

**O-Ring Face-Seal  
Metric Seal-Lok™**

Sizes: 1/4" – 2"  
Materials: Steel,  
Stainless Steel  
Pressures: Up to  
9200 psi

**37° Flare Fittings  
Triple-Lok®**

Sizes: 1/8" – 2"  
Materials: Steel,  
Stainless Steel,  
Brass  
Pressures: Up to  
9000 psi

**37° Flare  
Metric  
Triple-Lok®**

Sizes: 6 mm – 38  
mm  
Materials: Steel,  
Stainless Steel  
Pressures: Up to  
7200 psi

**Pipe Fittings and  
Port Adapters**

Sizes: 1/8" – 2"  
Materials: Steel,  
Stainless Steel,  
Brass  
Pressures: Up to  
7200 psi

**Conversion  
Adapters**

Sizes: 1/4" – 1-1/2"  
Materials: Steel,  
Stainless Steel  
Pressures: Up to  
7700 psi

**Pipe Swivels**

Sizes: 1/8" – 2"  
Materials: Steel,  
Stainless Steel  
Pressures: Up to  
5000 psi

**Hydraulic Flange  
and Flange  
Adapters**

Sizes: 3/4" – 3"  
Materials: Steel,  
Stainless Steel  
Pressures: Up to  
6000 psi

**Japanese  
Industrial  
Standard  
JIS**

Sizes: 1/4" – 1"  
Materials: Steel  
Pressures: Up to  
5000 psi

**30° Flare  
Komatsu Style**

Sizes: M14 x 1.5  
– M33 x 1.5  
Materials: Steel  
Pressures: Up to  
4000 psi

**60° Cone BSPP  
K4**

Sizes: 1/8" – 2"  
Materials: Steel  
Pressures: Up to  
5000 psi

## How to Order Parker Hose Adapters

When ordering Parker Adapters, please state the Catalogued Number of each type of adapter desired. Be sure to double check tube and hose sizes of items required.

To select proper seal materials for specific applications, refer to Media Compatibility Chart in Tube Fitting Catalog 4300, or contact your Parker Tube Fitting Distributor.

If in doubt about which type or size of fitting to specify, consult your Parker Tube Fitting Distributor. In addition Parker Field Sales, Technical Services, the Tube Fitting Division and your local Parker Service Center will help you find answers to all your issues.

**Phone:** (614) 279-7070

**Fax:** (614) 279-7685





**Web:** <http://www.parker.com/tfd>

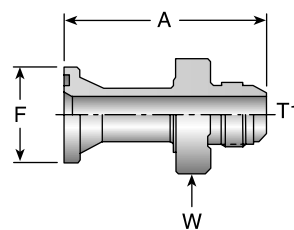
Note: Refer to **Parker Catalog 4300** for more detailed application information.





**CALL TOLL-FREE 1-800-C  
PARKER (1-800-272-7537)**

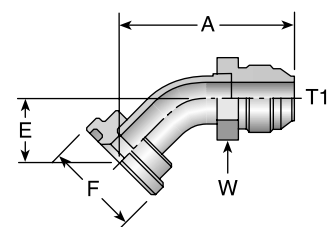
**Parker Information Center  
for catalogs, literature or  
additional information.**





**15T3****SAE (Code 61) Flange – Male SAE (JIC) 37° Flare**

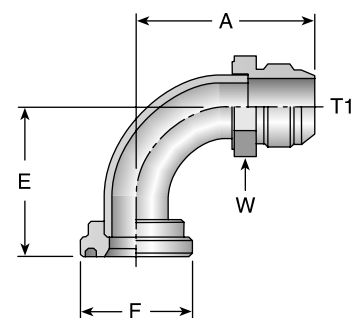
# Part Number				A			
	Flange inch	Thread T1		inch	mm	W inch	F inch
15T3-8-8	1/2	1/2	3/4x16	2.80	71	1-1/4	1-3/16
15T3-12-12	3/4	3/4	1-1/16x12	3.20	81	1-9/16	1-1/2
15T3-16-12	1	3/4	1-1/16x12	2.68	47	1-1/8	1-3/4
15T3-16-16	1	1	1-5/16x12	3.22	82	1-7/8	1-3/4
15T3-20-16	1-1/4	1	1-5/16x12	2.76	51	1-3/8	2
15T3-20-20	1-1/4	1-1/4	1-5/8x12	3.69	94	2-1/4	2
15T3-24-24	1-1/2	1-1/2	1-7/8x12	4.04	103	2-1/2	2-3/8
15T3-32-32	2	2	2-1/2x12	4.44	113	2-7/8	2-13/16

**17T3****SAE (Code 61) Flange – Male SAE (JIC) 37° Flare - 45° Elbow**

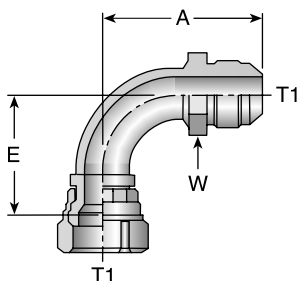
# Part Number				A		E			
	Flange inch	Thread T1		inch	mm	inch	mm	W inch	F inch
17T3-8-8	1/2	1/2	3/4x16	2.54	65	0.78	20	13/16	1-3/16
17T3-12-12	3/4	3/4	1-1/16x12	2.76	70	1.00	25	1-9/16	1-1/2
17T3-16-12	1	3/4	1-1/16x12	2.76	70	1.00	25	1-1/8	1-3/4
17T3-16-16	1	1	1-5/16x12	2.99	76	1.06	27	1-3/8	1-3/4
17T3-20-16	1-1/4	1	1-5/16x12	2.99	76	1.06	27	1-7/8	2
17T3-20-20	1-1/4	1-1/4	1-5/8x12	3.22	82	1.12	28	1-11/16	2
17T3-24-20	1-1/2	1-1/4	1-5/8x12	3.26	83	1.17	30	1-11/16	2-3/8
17T3-24-24	1-1/2	1-1/2	1-7/8x12	3.43	87	1.12	28	2	2-3/8
17T3-32-32	2	2	2-1/2x12	4.02	102	1.25	32	2-5/8	2-13/16

**19T3****SAE (Code 61) Flange – Male SAE (JIC) 37° Flare - 90° Elbow**

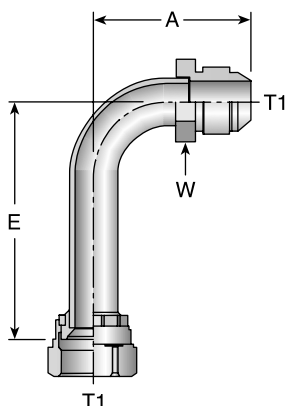
#									
Part Number	Flange	Thread		A		E		W	F
	inch	T1		inch	mm	inch	mm	inch	inch
19T3-8-8	1/2	1/2	3/4x16	1.92	49	1.62	41	13/16	1-13/16
19T3-12-12	3/4	3/4	1-1/16x12	2.46	62	2.12	54	1-1/8	1-1/2
19T3-16-12	1	3/4	1-1/16x12	2.46	62	2.12	54	1-3/8	1-3/4
19T3-20-12	1-1/4	3/4	1-1/16x12	2.46	62	2.12	54	1-3/8	2
19T3-16-16	1	1	1-5/16x12	2.79	71	2.37	60	1-3/8	1-3/4
19T3-20-16	1-1/4	1	1-5/16x12	2.79	71	2.37	60	1-3/8	2
19T3-24-16	1-1/2	1	1-5/16x12	2.79	71	2.44	62	1-11/16	2-3/8
19T3-20-20	1-1/4	1-1/4	1-5/8x12	3.12	79	2.50	64	1-11/16	2
19T3-24-20	1-1/2	1-1/4	1-5/8x12	3.12	79	2.56	65	1-11/16	2-3/8
19T3-20-24	1-1/4	1-1/2	1-7/8x12	3.48	88	2.69	68	2	2
19T3-24-24	1-1/2	1-1/2	1-7/8x12	3.48	88	2.75	70	2	2-3/8
19T3-32-24	2	1-1/2	1-7/8x12	3.48	88	2.75	70	2	2-13/16
19T3-32-32	2	2	2-1/2x12	5.61	142	4.50	114	2-5/8	2-13/16



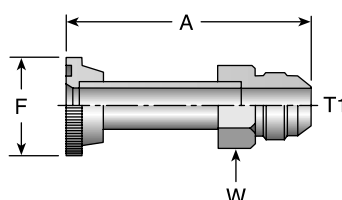
**Caution:** Do not use the T3 flange to tube or swivel nut to tube adapter in hose assembly applications in which pressures exceed the SAE100R2 working pressure range.

**39T3****Male - Female Swivel - SAE (JIC) 37° - 90° Elbow**

# Part Number	Thread T1		A		E		W
			inch	mm	inch	mm	inch
39T3-6-6	3/8	9/16x18	1.61	41	0.85	22	5/8
39T3-8-8	1/2	3/4x16	1.86	47	1.09	28	13/16
39T3-10-10	5/8	7/8x14	2.13	54	1.24	31	15/16
39T3-12-12	3/4	1-1/16x12	2.62	67	1.81	46	1-1/8
39T3-16-16	1	1-5/16x12	2.94	75	2.14	54	1-3/8
39T3-20-20	1-1/4	1-5/8x12	3.12	79	2.59	66	1-11/16

**41T3****Male - Female Swivel - SAE (JIC) 37° - 90° Elbow - Long**





# Part Number	Thread T1		A		E		W
			inch	mm	inch	mm	inch
41T3-8-8	1/2	3/4x16	1.94	49	2.43	62	13/16
41T3-10-10	5/8	7/8x14	2.20	56	2.57	65	15/16
41T3-12-12	3/4	1-1/16x12	2.50	64	3.74	95	1-1/8
41T3-16-16	1	1-5/16x12	2.79	71	4.23	107	1-3/8

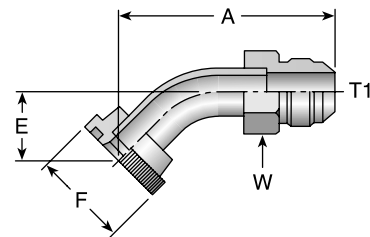
**4AH3****SAE Code 61 Flange - Male SAE (JIC) 37° Flare - 5000 psi**





# Part Number	Flange	Thread T1		A		W	F
	inch			inch	mm	inch	inch
4AH3-12-12	3/4	3/4	1-1/16x12	3.82	97	1-1/8	1-1/2
4AH3-16-16	1	1	1-5/16x12	4.09	104	1-3/8	1-3/4
4AH3-20-20	1-1/4	1-1/4	1-5/8x12	4.16	106	1-3/4	2
4AH3-24-24	1-1/2	1-1/2	1-7/8x12	4.97	126	2	2-3/8

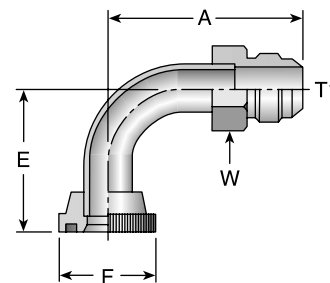
**Caution:** Do not use the T3 flange to tube or swivel nut to tube adapter in hose assembly applications in which pressures exceed the SAE100R2 working pressure range.

**4FH3****SAE Code 61 Flange - Male SAE (JIC) 37° Flare - 5000 psi - 45° Elbow**

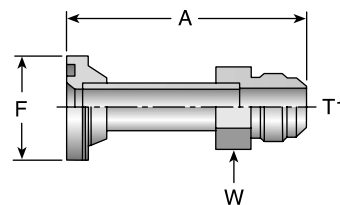
#								
Part Number	Flange	Thread	A		E		W	F
	inch	T1	inch	mm	inch	mm	inch	inch
4FH3-12-12	3/4	3/4	1-16x12	3.39	86	1.06	27	1-1/8
4FH3-16-16	1	1	1-5/16x12	3.85	98	1.27	32	1-3/8
4FH3-20-20	1-1/4	1-1/4	1-5/8x12	4.22	107	1.36	35	1-3/4
								2





**4NH3****SAE Code 61 Flange - Male SAE (JIC) 37° Flare - 5000 psi - 90° Elbow**

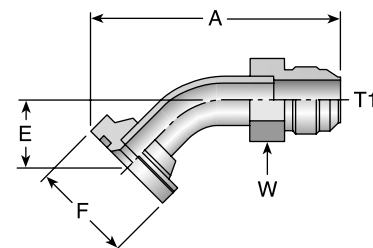
# Part Number	 Flange inch	 Thread T1		A inch   mm		E inch   mm		 W inch	 F inch
4NH3-8-8	1/2	1/2	3/4x16	1.93	49	1.68	43	13/16	1-13/16
4NH3-12-12	3/4	3/4	1-1/16x12	3.07	78	2.24	57	1-1/8	1-1/2
4NH3-16-16	1	1	1-5/16x12	3.25	83	2.48	63	1-3/8	1-3/4
4NH3-20-20	1-1/4	1-1/4	1-5/8x12	4.68	119	2.99	76	1-3/4	2
4NH3-24-24	1-1/2	1-1/2	1-7/8x12	3.92	100	3.64	92	2	2-3/8

**6AH3****SAE Code 62 Flange - Male SAE (JIC) 37° Flare**

# Part Number	Flange inch	Thread T1	A		W	F
			inch	mm	inch	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

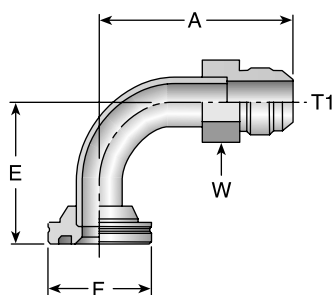
**6FH3****SAE Code 62 Flange - Male SAE (JIC) 37° Flare - 45° Elbow**





#									
Part Number	Flange	Thread	A		E		W	F	
	inch	T1	inch	mm	inch	mm	inch	inch	
6FH3-12-12	3/4	3/4	1-1/16x12	3.40	86	1.06	27	1-1/8	1-5/8
6FH3-16-16	1	1	1-5/16x12	3.85	98	1.28	33	1-3/8	1-7/8
6FH3-20-20	1-1/4	1-1/4	1-5/8x12	4.22	107	1.36	35	1-3/4	2-1/8
6FH3-24-24	1-1/2	1-1/2	1-7/8x12	5.13	130	1.71	43	2	2-1/2



**6NH3**

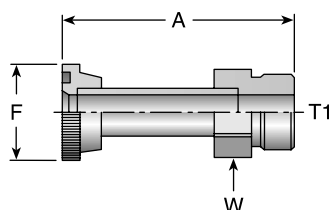
SAE Code 62 Flange - Male SAE (JIC) 37° Flare - 90° Elbow



#									
Part Number	Flange	Thread	A		E		W	F	
	inch	T1	inch	mm	inch	mm	inch	inch	
6NH3-12-12	3/4	3/4	1-1/16x12	3.07	78	2.24	57	1-1/8	1-5/8
6NH3-16-16	1	1	1-5/16x12	3.58	91	2.81	71	1-3/8	1-7/8
6NH3-20-20	1-1/4	1-1/4	1-5/8x12	4.68	119	2.99	76	1-3/4	2-1/8
6NH3-24-24	1-1/2	1-1/2	1-7/8x12	3.92	100	3.64	92	2	2-1/2

**4AJM**

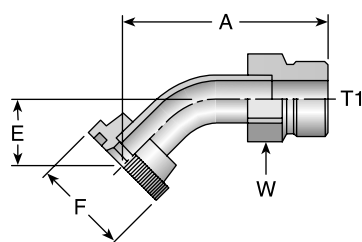
Code 61 Flange - Male Seal-Lok



#			A			
Part Number	Flange inch	Thread T1	inch	mm	W inch	F inch
4AJM-12-12	1x1/2	1-3/16x12	3.65	93	1-1/4	1-1/2
4AJM-16-16	1x3/4	1-7/16x12	3.90	99	1-1/2	1-3/4
4AJM-20-20	2	1-11/16x12	3.92	100	1-3/4	2

**4FJM**

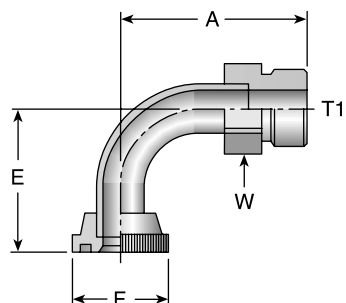
Code 61 Flange - Male Seal-Lok - 45° Elbow



#			A		E			
Part Number	Flange inch	Thread T1	inch	mm	inch	mm	W inch	F inch
4FJM-12-12	1x1/2	1-3/16x12	3.22	82	1.06	27	1-1/4	1-1/2
4FJM-16-16	1x3/4	1-7/16x12	3.64	92	1.27	33	1-1/2	1-3/4
4FJM-20-20	1 1/4	1-11/16x12	3.99	101	1.36	35	1-3/4	2

**4NJM**





Code 61 Flange - Male Seal-Lok - 90° Elbow

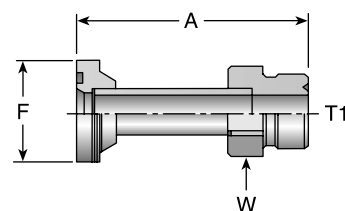






#			A		E			
Part Number	Flange inch	Thread T1	inch	mm	inch	mm	W inch	F inch
4NJM-12-12	1x1/2	1-3/16x12	2.90	74	2.24	57	1-1/4	1-1/2
4NJM-16-16	1x3/4	1-7/16x12	3.38	86	2.81	71	1-1/2	1-3/4
4NJM-20-20	2	1-11/16x12	4.44	113	2.99	76	1-3/4	2

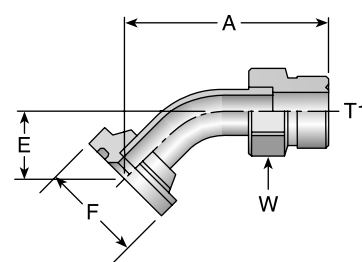






**6AJM****Code 62 Flange - Male Seal-Lok**

# Part Number	 Flange inch	 Thread T1	A		 W inch	 F inch
			inch	mm		
6AJM-12-12	1x1/2	1-3/16x12	3.65	93	1-1/4	1-5/8
6AJM-16-16	1-7/16x12	1-7/16x12	3.90	99	1-1/2	1-7/8
6AJM-20-20	2-1/8	1-11/16x12	3.92	100	1-3/4	2-1/8

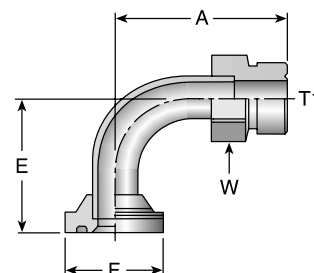
**6FJM****Code 62 Flange - Male Seal-Lok - 45° Elbow**

# Part Number	 Flange inch	 Thread T1	A		E		 W inch	 F inch
			inch	mm	inch	mm		
6FJM-12-12	1x1/2	1-3/16x12	3.22	82	1.06	27	1-1/4	1-5/8
6FJM-16-16	1-7/16x12	1-7/16x12	3.64	92	1.27	33	1-1/2	1-7/8
6FJM-20-20	2-1/8	1-11/16x12	3.99	101	1.36	35	1-3/4	2-1/8

**6NJM****Code 62 Flange - Male Seal-Lok - 90° Elbow**

# Part Number	 Flange inch	 Thread T1	A		E		 W inch	 F inch
			in	mm	in	mm		
6NJM-12-12	1x1/2	1-3/16x12	2.90	74	2.24	57	1-1/4	1-5/8
6NJM-16-16	1-7/16x12	1-7/16x12	3.38	86	2.81	71	1-1/2	1-7/8
6NJM-20-20	2-1/8	1-11/16x12	4.44	113	2.99	76	1-3/4	2-1/8

6NJM does not include O-rings. Order separately.

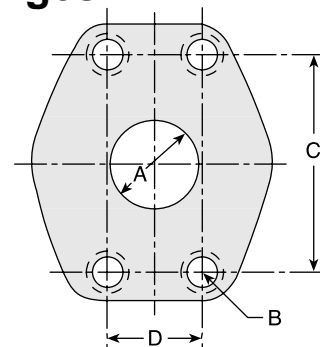


## SAE J518 port dimensions for 4-Bolt Split Flanges

There are two non-interchangeable SAE split flanges:

- Standard or Code 61 is for 3,000psi to 5,000psi maximum, depending on size.
- 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	1.50	38,10	0.68	17,47	5,000	34,5
3/4	-12	0.75	19	3/8x16	1.88	47,63	0.87	22,22	5,000	34,5
1	-16	1.00	25	3/8x16	2.06	52,37	1.03	26,18	5,000	34,5
1 1/4	-20	1.25	32	7/16x14	2.31	58,72	1.18	30,17	4,000*	27,6
1 1/2	-24	1.50	38	1/2x13	2.75	69,85	1.40	35,71	3,000*	20,7
2	-32	2.00	51	1/2x13	3.06	77,77	1.68	42,87	3,000*	20,7

Note: \*5000 psi with 4A, 4F and 4N Fittings and 50H Flange Halves.

### High Pressure (Code 62)

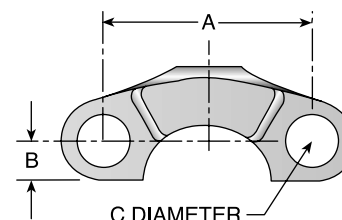
Nominal Flange	Flange Dash Size	A Dia Max		B Thread	C		D		Maximum Working Pressure	
		inch	mm		±0.010 inch	±0.25 mm	±0.010 inch	±0.25 mm	psi	MPa
3/4	-12	0.75	19	3/8x16	2.00	47,75	0.88	22,35	6,000	41,4
1	-16	1.00	25	7/16x14	2.25	57,15	1.09	27,76	6,000	41,4
1-1/4	-20	1.25	32	1/2x13	2.63	66,67	1.25	31,75	6,000	41,4
1-1/2	-24	1.50	38	5/8x11	3.13	79,37	1.43	36,49	6,000	41,4
2	-32	2.00	51	3/4x10	3.81	96,82	1.75	44,45	6,000	41,4

## 50H

### 5000 psi Flange Half (Code 61)

#	SAE Flange Size	A	B	C	Maximum Working Pressure
Part Number	inch	inch	inch	inch	psi
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

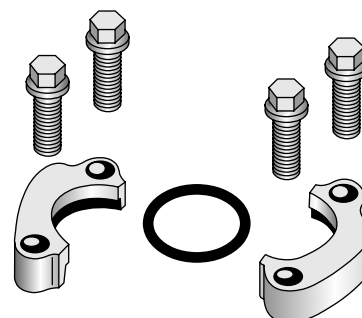
Note: For use with 4A, 4F and 4N Flanges.



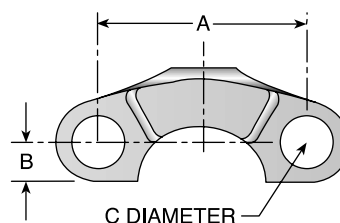
**5050HK****5000 psi Flange Kit (Code 61)**

# Part Number	SAE Flange Size inch	Maximum Working Pressure (psi)	(2) Flange Halves	O-Ring	(4) Bolts Grade 8		(4) 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.

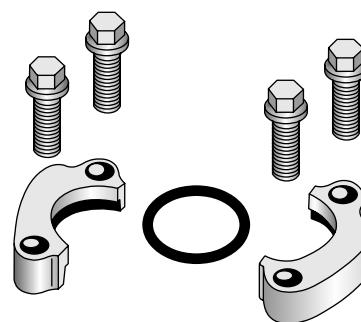
**51H****SAE Flange Half (Code 61)**

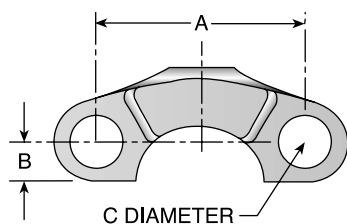
# Part Number	SAE Flange Size inch	A inch	B inch	C inch	Maximum Working Pressure psi
51H-8	1/2	1.50	0.31	0.34	5,000
51H-12	3/4	1.88	0.40	0.41	5,000
51H-16	1	2.06	0.48	0.41	5,000
51H-20	1-1/4	2.31	0.56	0.47	4,000
51H-24	1-1/2	2.75	0.67	0.53	3,000
51H-32	2	3.06	0.81	0.53	3,000
51H-40	2-1/2	3.50	0.96	0.53	2,500

**5151HK****SAE Flange Kit (Code 61)**

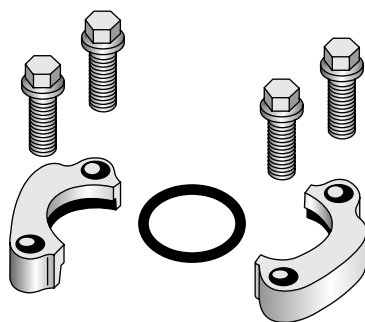
# Part Number	SAE Flange Size inch	Maximum Working Pressure (psi)	(2) Flange Halves	O-Ring	(4) Bolts Grade 8		(4) Washers
					Thread inch	Length inch	
5151HK-8	1/2	5,000	51H-8	711510-6	5/16x18	1-1/4	5/16
5151HK-12	3/4	5,000	51H-12	711510-5	3/8x16	1-1/4	3/8
5151HK-16	1	5,000	51H-16	711510-4	3/8x16	1-1/4	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
5151HK-48	3	2,000	51H-48	711510-8	5/8-11	1-3/4	5/8

**Note:** High pressure applications also require the use of Code 61 Flange End hose fittings.

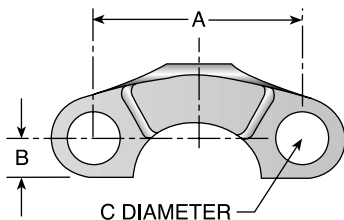


**HFH****SAE Flange Half (Code 62)**

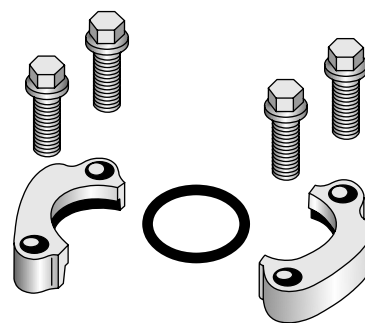
# Part Number	SAE Flange Size inch	A inch	B inch	C inch	Maximum Working Pressure psi
HFH-12	3/4	2.00	0.43	0.41	6,000
HFH-16	1	2.25	0.51	0.47	6,000
HFH-20	1 1/4	2.62	0.59	0.53	6,000
HFH-24	1 1/2	3.12	0.68	0.66	6,000
HFH-32	2	3.81	0.84	0.78	6,000

**HFHFHK****SAE Flange Kit (Code 62)**

# Part Number	SAE Flange Size inch	Maximum Working Pressure psi	(2) Flange Halves	O-Ring	(4) Bolts Grade 8		(4) Washers
					Thread inch	Length inch	
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

**8FH****Flange Half (8000 psi)**

# Part Number	SAE Flange Size inch	A inch	B inch	C inch	Maximum Working Pressure psi
8FH-12	3/4	2.00	0.43	0.41	8,000
8FH-16	1	2.25	0.51	0.47	8,000

**8FHFHK****Flange Kit (8000 psi)**

# Part Number	SAE Flange Size inch	Maximum Working Pressure psi	(2) Flange Halves	D-Ring	(4) Bolts Grade 8		(4) Washers
					Thread inch	Length inch	
8FHFHK-12	3/4	8,000	8FH-12	8ARG-12	3/8-16	1-3/4	3/8
8FHFHK-16	1	8,000	8FH-16	8ARG-16	7/16-14	1-3/4	7/16

## Full Flange System

### SAE J1518 Code 61 or Code 62

Parker's Hose Products Division introduces a one-piece flange option for Code 61 and Code 62 connections. The patent-pending design enables the flange to be attached to the hose after the hose fitting has been crimped to the hose. Once the fitting is crimped, an SAE J1518 Code 61 or a Code 62 full flange can be attached using the high tensile stainless steel retaining ring. The versatile fitting design enables greater flexibility by reducing the number of potential hose fittings in your inventory.

#### Product Features

- One-piece full flange connection
- The full flange system is designed to work with all Parkrimp crimpers
- Fittings are compatible for both Code 61 and Code 62 flanges
- All Code 61 sizes rated to 5000 psi



## Flange Kits:

### Code 61 Flange Kit - All sizes rated for 5000 psi

Part Number	SAE Flange Size inch	Maximum Working Pressure psi	Flange	Seal	Retaining Ring	(4) Bolts Grade 8	
						Thread inch	Length inch
FFK61-12	3/4	5,000	R312-35-CFX	XRG-12	R12X	UNC 3/8 - 16	1-1/2
FFK61-16	1	5,000	R316-CFX	XRG-16	R16X	UNC 3/8 - 16	1-1/2
FFK61-20	1 1/4	5,000	R320-12.5-CFX	XRG-20	R20X	UNC 7/16 - 14	1-1/2
FFK61-24	1 1/2	5,000	R324-CFX	XRG-24	R24X	UNC 1/2 - 13	1-3/4
FFK61-32	2	5,000	R332-CFX	XRG-32	R32X	UNC 1/2 - 13	1-3/4

### Code 62 Flange Kit

Part Number	SAE Flange Size inch	Maximum Working Pressure psi	Flange	Seal	Retaining Ring	(4) Bolts Grade 8	
						Thread inch	Length inch
FFK62-12	3/4	6,000	R612-35-CFX	XRG-12	R12X	UNC 3/8 - 16	1-1/2
FFK62-16	1	6,000	R616-CFX	XRG-16	R16X	UNC 7/16 - 14	1-1/2
FFK62-20	1 1/4	6,000	R620-CFX	XRG-20	R20X	UNC 1/2 - 13	1-3/4
FFK62-24	1 1/2	6,000	R624-CFX	XRG-24	R24X	UNC 5/8 - 11	2-1/4
FFK62-32	2	6,000	R632-CFX	XRG-32	R32X	UNC 3/4 - 10	2-3/4

Kit Part Number	Retaining Ring	O-ring
RK-12	R12X	XRG-12
RK-16	R16X	XRG-16
RK-20	R20X	XRG-20
RK-24	R24X	XRG-24
RK-32	R32X	XRG-32

The stainless steel retaining rings and O-rings are recommended for one-time use. Order additional ring kits using the part numbers shown.

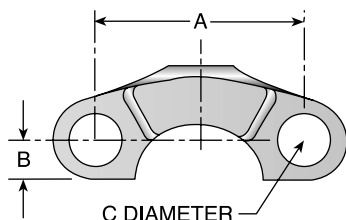
## DIN and ISO Metric Ports

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	3,5 to 35 MPa Series
Code 62	Form S	35 to 40 MPa Series

### M1H

#### DIN (ISO) Flange Half

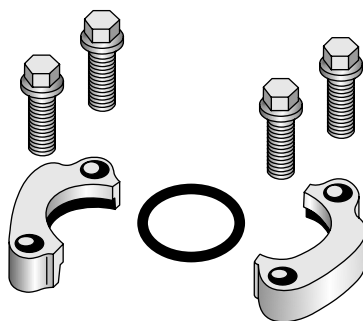


# Part Number	DIN Flange Size	ISO Flange Size	A mm	B mm	C mm	Maximum Working Pressure	
						psi	MPa
M1H-8	8	13	38	8	9	5,000	34,5
M1H-12	12	19	48	10	11	5,000	34,5
M1H-16	16	25	52	12	11	5,000	34,5
M1H-20	20	32	59	14	11	4,000	27,6
M1H-24	24	38	70	17	13.5	3,000	20,7
M1H-32	32	51	78	21	13.5	3,000	20,7

**Note:** High pressure applications also require the use of Code 62 Flange End hose fittings.

### M1M1HK

#### DIN (ISO) Flange Kit (Code 61)

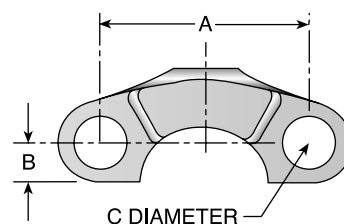


# Part Number	DIN Flange Size	ISO Flange Size	Maximum Working Pressure		(2) Flange Halves	O-Ring	(4) Bolts		(4) Washers
			psi	MPa			Thread mm	Length mm	
M1M1HK-8	8	13	5,000	34,5	M1H-8	711510-6	M8x1.25	30	10
M1M1HK-12	12	19	5,000	34,5	M1H-12	711510-5	M10x1.50	30	10
M1M1HK-16	16	25	5,000	34,5	M1H-16	711510-4	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

**M2H**

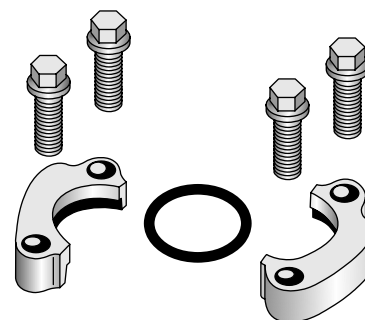
DIN (ISO) Flange Half (Code 62)

# Part Number	DIN Flange Size	ISO Flange Size	A mm	B mm	C mm	Maximum Working Pressure	
						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	15	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

**M2M2HK**

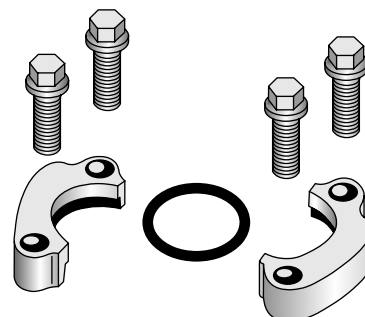
DIN (ISO) Flange Kit (Code 62)

# Part Number	DIN Flange Size	ISO Flange Size	Maximum Working Pressure		(2) Flange Halves	O-Ring	(4) HHCS		(4) Washers
			psi	MPa			Thread mm	Length mm	
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	M16x2.00	55	16
M2M2HK-32	32	51	6,000	41,5	M2H-32	711510-1	M20x2.50	70	20

**XCXCHK**

CAT Flange Kits

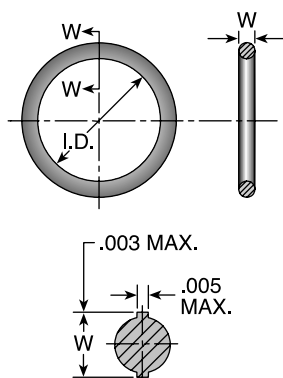
# Part Number	C inch	Maximum Working Pressure psi	(4) Bolts Grade 8		Length mm	(4) Washers
			O-Ring	Thread mm		
XCXCHK-12	0.406	6,000	8ARG-12	3/8-16	1.75	3/8
XCXCHK-16	0.469	6,000	8ARG-16	7/16-14	1.75	7/16
XCXCHK-20	0.531	6,000	8ARG-20	1/2-13	2.00	1/2
XCXCHK-24	0.656	6,000	8ARG-24	5/8-11	2.50	5/8
XCXCHK-32	0.827	6,000	8ARG-32	3/4-10	2.75	3/4





## 711509

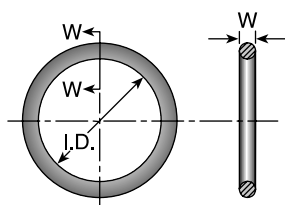
## O-Rings - SAE Thread (Compound N552-90)\*



# 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	23,56
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	0.14	3,53	0.73	18,64
711510-9*	-10	5/8	0.14	3,53	0.79	20,20
711510-5	-12	3/4	0.14	3,53	0.98	25,00
711510-4	-16	1	0.14	3,53	1.29	32,92
711510-3	-20	1-1/4	0.14	3,53	1.48	37,69
711510-2	-24	1-1/2	0.14	3,53	1.85	47,22
711510-1	-32	2	0.14	3,53	2.23	56,74
711510-7	-40	2-1/2	0.14	3,53	2.73	69,44
711510-8	-48	3	0.14	3,53	3.35	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

# Part Number	W mm	I.D. 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
CARG-28	2,0	26,0

## C9RG

O-Rings for C9, OC,  
1C Metric Swivels

# Part Number	W mm	I.D. 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
C9RG-30	2,4	25,3
C9RG-38	2,5	33,0

## 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.

**J0RG****O-Rings - Seal-Lok®**

Part Number	Tube Dash Size	Tube O.D. Inch	SAE Thread Inch	I.D.		O.D.	
				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.

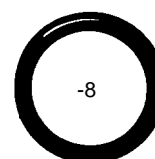
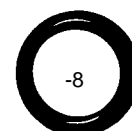
**SAE 711509-4****Seal-Lok J0RG-8**

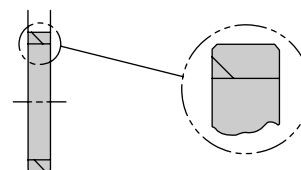
Photo shows an actual comparison between an SAE port O-Ring (top) and a Seal-Lok® O-Ring (bottom). They differ in both diameter and cross section.

**XARG****Flange "D" Rings Caterpillar® Style Flanges**

Part Number	Flange Size	Dash Size	I.D.		O.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	1.25	31,8
XARG-20	1-1/4	-20	0.20	5,0	1.50	38,1
XARG-24	1-1/2	-24	0.20	5,0	1.75	44,5
XARG-32	2	-32	0.20	5,0	2.52	63,9

**8ARG****Flange "D" Rings for 76 Series Style Flange**

Part Number	Flange Size	Dash Size	Seal Thickness		Seal I.D.	
			Inch	mm	Inch	mm
8ARG-12	3/4	-12	0.20	5,0	1.00	25,4
8ARG-16	1	-16	0.20	5,0	1.25	31,9



**59RG****O-Rings for Tube O-Ring Fittings  
and Compressor 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

**Note:** The above O-Rings (RG) have HNBR compound number N1195-70 (green).

**T1RG****O-Rings for Compression  
Fittings (1T126)**

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.)

## Partek Wrap

The need for a protective hose sleeve is not always considered while designing for a hose's application. Many hose assembly installations would benefit from a sleeve, but it is not obvious until all the other hoses and components are in place. Parker's Partek Wrap enables the hose sleeve to be installed after the hose assemblies have been positioned and secured in place. The Partek Wrap can be used as extra abrasion protection or to wrap multiple hoses or cables together.

### Product Features

- Post assembly installation
- Light weight and highly flexible
- Urethane-coated 1050 Ballistic Nylon
- Ambient temperature range of -60°F to +200°F
- Fast and easy installation



## Partek Wrap

Part Number	Bundle O.D.	Circumference inch	Open Width (+/- 0.375) inch	Roll Length feet	Color
PS-BV-300	3	9.40	10.90	50	Black
PS-BV-400	4	12.50	14.00	50	Black
PS-BV-500	5	15.75	17.25	50	Black
PS-BV-700	7	22.00	23.50	50	Black

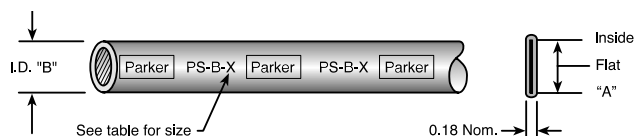
Other sizes available upon request with minimum order.



## 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.

**Temperature Range:** -67°F to +248°F (-53°C to +120°C)



**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.



Partek Sleeve



Partek "PS" Sleeve

### Partek Sleeve Application - Hose Type/Size

Partek Sleeve Black Part	Partek Sleeve Yellow Part	Partek PS Sleeve Black Part	Inside Diameter	SS25UL 201, 206 221FR 225, 235 244 266	213 271 285 293	BXX 302 301LT 304 381 421WC	AX, MX 351TC, 351ST 422, 424 426, 431 436, 451TC 451ST, 471TC 471ST, 472TC 482TC, 482ST	273	601 604 636 646	701, 711 721, 721TC 721ST, 722LT 722TC, 722LT 722TC, 722ST 774 787TC, 797TC	731, 781 782TC 782ST 791TC 792LT 792TC 792ST F42, P35	801 804 821 821FR 831 836	811 811HT 881	275	761	Twin Line
Number	Number	Number	A B													
AS-B-11	AS-Y-11		1.07 0.69	-4	-4		-3, -4					-4				
AS-B-13	AS-Y-13	PS-B-13	1.34 0.86	-5, -6	-5, -6	-4, -5	-5, -6	-4	-4, -5			-5, -6				
AS-B-15	AS-Y-15	PS-B-15	1.66 1.06	-8	-8, -10	-6	-8	-6	-6	-6		-8				
AS-B-17	AS-Y-17	PS-B-17	1.92 1.22	-10	-12	-8, -10	-10	-8	-8	-8		-10		-10		
AS-B-19	AS-Y-19		2.12 1.35	-12			-12	-10	-10	-10		-12		-12	-10	
AS-B-22	AS-Y-22	PS-B-22	2.24 1.42	-16	-16	-12		-12	-12	-12		-16	-12	-16		
AS-B-27	AS-Y-27		2.55 1.63				-16					-12			-12	6-6, 8-8
AS-B-33	AS-Y-33	PS-B-33	2.85 1.81	-20	-20	-16			-16	-16		-16		-16	-16	8-8
	AS-Y-35	PS-B-35	3.43 2.19	-24	-24		-20					-20	-20	-20		
AS-B-37	AS-Y-37	PS-B-37	3.73 2.38			-20	-24			-20	-20			-24		
		PS-B-39	4.12 2.63	-32	-32	-24				-24	-24			-24		
		PS-B-45	4.53 2.88			-32	-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			6.18 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)).

## Accessory Selection Guide – PolyGuard (HG)

- Shield hose from abrasion and cuts
- Minimize kinking
- Cannot rust or corrode

- Resist water, oil, gasoline, hydraulic fluid, and most solvents
- Ideal for bundling plastic tubing or hose lines
- Easy to install without removing hose lines; no clamps needed

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)



PolyGuard

## PolyGuard (HG), ParKoil (PG) Application - Hose Type/Size

Poly Guard Part Number	ParKoil Part Number	Inside Dia.	SS25UL 201, 206 221FR 225, 235 244 266	213 271 285 293	BXX 302 301LT 304 381 421WC	AX, MX 351TC, 351ST 422, 424 426, 431 436, 451TC 451ST, 471TC 471ST, 472TC 482TC, 482ST	273	601 604 636 646	701, 711 721, 721TC 721ST, 722LT 722TC, 772ST 774 787TC, 797TC	731, 781 782TC 782ST 791TC 801 804 821 821FR 831 836	811 811HT 881	275	761	Twin Line
HG-075		0.75	-8,-10	-8,-10	-6,-8	-8,-10	-6,-8	-6,-8	-4,-6	-8,-10	-12	-10	-10	
HG-100		1.00	-12	-12	-10,-12	-12	-10	-10	-8,-10	-12	-12	-12	-12	
HG-125		1.25	-16	-16		-16		-12	-12	-16	-16	-16	-12	
HG-150		1.50	-20,-24	-20,-24	-16,-20	-20	-16,-20	-16	-16,-20	-16,-20	-16,-20	-20	-16	
HG-200		2.00	-32,-40	-32,-40	-24,-32	-24,-32		-20,-24,-32	-24,-32		-24,-32,-40	-24	-20	
HG-350		3.50	-48	-48							-48			
	PG-038	0.38		-4		-3								
	PG-050	0.50	-4,-5	-5	-3,-4	-4,-5	-4	-4		-4				
	PG-062	0.62	-6	-6,-8	-5	-6				-6				
	PG-075	0.75	-8	-10	-6	-8	-6	-6	-6	-8				
	PG-088	0.88	-10	-12	-8	-10	-8	-8	-8	-10				
	PG-100	1.00	-12		-10,-12	-12	-10	-10	-10	-12	-10	-10	-10	
	PG-119	1.19	-16	-16			-12	-12	-12	-16	-12	-12	-12	
	PG-138	1.38	-20,-24	-20,-24	-16	-16,-20	-16	-16,-20	-16	-16,-20	-16,-20	-16,-20	-12,-16	6-6,6-8
	PG-188	1.88	-32,-40,-48	-32,-40,-48	-20,-24,-32	-24,-32		-24,-32	-20,-24,-32	-24,-32	-24,-32	-24	-20	8-8

Lower-cost protection for applications 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)



ParKoil™

Part Number	Inside Dia. inch	Box Qty. foot	201, 221FR 206, 225 244 266	213 285 293	302 301LT 304 341 421WC BXX	422, 424, 426 431, 436, AX 351TC/ST 451TC/ST 471TC/ST 472TC 482TC/ST	601	701 721 721TC 772TC/ST 774	731 P35, 781 782TC/ST 791TC 792TC/ST	801 804 821 821FR 831, 836	811 881 811HT
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	-32/-40	-20/-24	-24		-24	-20/-24		-24
PG-188	1.88	25	-48	-48	-32	-32		-32	-32		-32



## Accessory Selection Guide – 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.



Spring Guard (SG)



Armor Guard (AG)

### Spring Guard/Armor Guard Application - Hose Type/Size

Spring Guard Part Number	Armor Guard Part Number	Inside Dia.	SS25UL 201, 206 221FR 225, 235 244 266	213 271 285 293	BXX 302 301LT 304 381 421WC	AX, MX 351TC, 351ST 422, 424 426, 431 436, 451TC 451ST, 471TC 471ST, 472TC 482TC, 482ST	273	601 604 636 646	701, 711 721, 721TC 721ST, 722LT 722TC, 772ST 774 787TC, 797TC	731, 781 782TC 782ST 791TC 792LT 792TC 792ST F42, P35	801 804 821 821FR 831 836	811 811HT 881	275	761	Twin Line
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	-4								
SG-072	AG-072	0.72	-6		-5	-6		-5			-6				
SG-084	AG-084	0.84	-8	-8	-6	-8	-6	-6	-4,-6	-4	-8				
SG-097	AG-097	0.97	-10	-10	-8	-10	-8	-8	-8	-6	-10		-10		
SG-106	AG-106	1.06		-12	-10		-10			-8					
SG-113	AG-113	1.13	-12			-12		-10	-10		-12				
SG-122	AG-122	1.22			-12					-10			-12	-10	
SG-131	AG-131	1.31	-16	-16			-12	-12	-12	-12	-16	-12			
SG-155	AG-155	1.55	-20	-20	-16	-16	-16	-16	-16			-16	-16	-12	6-6,8-8
SG-161		1.61								-16					
SG-166		1.66											-20		
SG-182	AG-182	1.82	-24	-24		-20	-20	-20	-20			-20		-16	8-8
SG-209	AG-209	2.09			-20	-24			-20	-20			-24		
SG-232	AG-232	2.32	-32		-24					-24				-20	
SG-292	AG-292	2.92										-40			

**Note:** Spring Guard and Armor Guard are packaged in 10 ft. pieces.

## Polyguard Strain Reliever

**Temperature Range:** -40°F to +225°F

**Material:** Flexible PVD

**Color:** Black (check for availability of other colors)

Part Number	Length inches	Hose O.D. inches
4PG	7	0.53
6PG	7	0.63
7PG	7	0.69
8PG	7	0.84





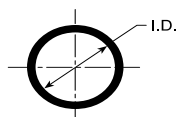
## Accessory Selection Guide – Firesleeve (FS-F)

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-24, with an I.D. of 1.46 in., is the suggested Firesleeve.

**Note:** Parker FSC Clamp fits all hoses up to 2 in. O.D.

**Note:** Parker HC Clamps (wormgear) are listed on page D-26.



Firesleeve (FS-F)



FSC Clamp

Part Number: FSC

(One size fits all hoses up to 2 inch O.D.)

## Proudly offering the following certifications and specifications

- UL 1441 Certified
- VW1 Flame Test Certified
- MSHA Certified for use in underground mines
- SAE AS1072E
- GL - Germanischer Lloyd Certified for 800°C for 30 minutes
- BS EN 373 Molten Splash Tested
- BS EN 388 Abrasion Tested
- BS EN ISO 6940 Flame Resistance Tested
- BS EN ISO 6530 Oil Resistance Tested
- BS 2576 Tensile Strength Tested
- DIN 54837 / 5510-2 Rail Vehicle Certified for Resistance to Combustibility
- DIN 5659-2 / 5510-2 Rail Vehicle Certified for Toxicity

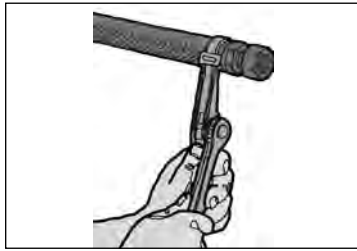
## “FS - F” Application - Hose Type/Size

Part Number	Inside Dia.	SS25UL 201, 206 221FR 225, 235 244 266	213 271 285 293	BXX 302 301LT 304 381 421WC	AX, MX 351TC, 351ST 422, 424 426, 431 436, 451TC 451ST, 471TC 471ST, 472TC 482TC, 482ST	273	601 604 636	701, 711 721, 721TC 721ST, 722LT 722TC, 722LT 722TC, 722ST 774 787TC, 797TC	731, 781 782TC 782ST 791TC 792LT 792TC 792ST F42, P35	801 804 821 821FR 831 836	811 811HT 881	275	761	Twin Line
FS-F-10	0.58	-4	-4	-3	-3,-4	-3	-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	-4					
FS-F-18	1.08	-10	-12	-8,-10	-10	-8		-8		-10	-8			
FS-F-20	1.21	-12		-12	-12	-10	-10	-10	-8	-12	-10	-10		
FS-F-24	1.46	-16	-16		-16				-12	-16	-12	-12	-10	6-6,6-8
FS-F-30	1.84	-24	-24					-16	-16		-16	-20	-16	8-8
FS-F-38	2.34	-32	-32	-20,-24	-24			-20,-24	-20		-24	-24	-20	
FS-F-40	2.46								-24					

**Note:** See Page D-24 for Firesleeve assembly instructions.

## Accessory Selection Guide – Firesleeve (cont.)

A

**FSC Clamp**

Used to attach firesleeve around socket on hose sizes with a 2" maximum O.D.

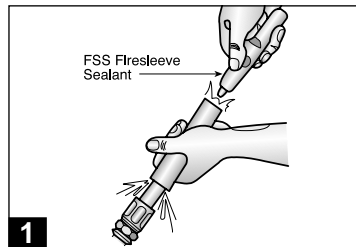
**FST Clamp Tool**

Part Number: FST-711617 Used to secure FSC clamp.

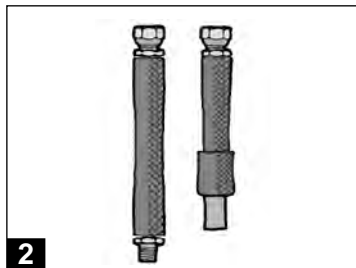
**FSS Firesleeve Sealant**

Keeps end of firesleeve from fraying  
- for neater, longer lasting installation.

B



1



2



3



4

C

D

E

**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 end 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.

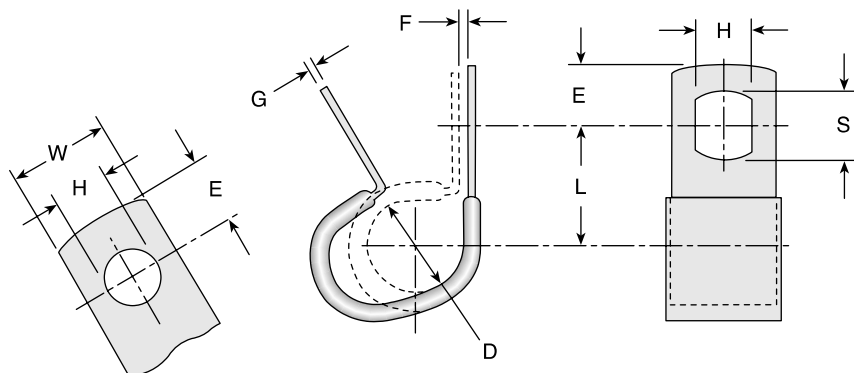
## Accessory Selection Guide – CL Clamp

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).



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

## Accessory Selection Guide – HC, 88HC-H and 88DB Clamp

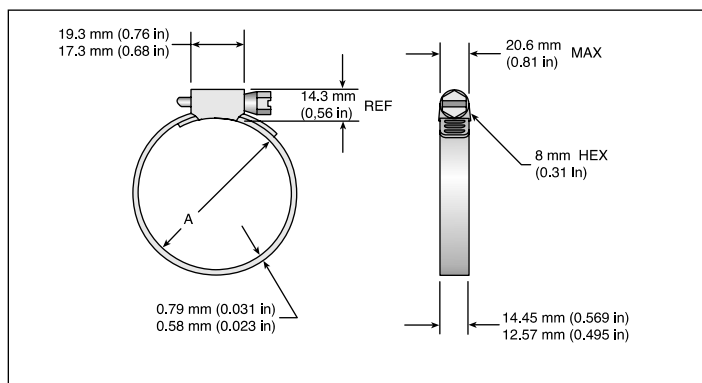
The Parker HC Clamp is a stainless steel worm gear clamp designed for low pressure industrial hose applications.

**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



### 88HC-H

Series Hose Clamp  
(High Torque Wormgear)

# Part Number	Hose I.D. inch
88HC-16H	3/4
88HC-16H	1
88HC-20H	1-1/4
88HC-32H	1-1/2
88HC-32H	2
88HC-40H	2-1/2
88HC-48H	3

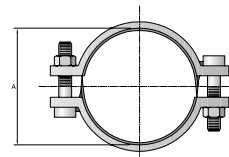


**Note:** See 88 Series Assembly Instructions for proper 88HC-H clamp attachment.

### 88DB

Series Heavy Duty Hose Clamp  
(Double Bolt Hose Clamp)

# Part Number	Hose I.D. inch
88DB-12	3/4
88DB-16	1
88DB-20	1-1/4
88DB-24	1-1/2
88DB-32	2



## Accessory Selection Guide – 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-B-13 RFL

2 ea. HP-B-15 RFL

4 ea. HP-B-18 RFL

### Tie Wraps

HT-12-KIT

HT-16-KIT

HT-22-KIT

30 ea. HT-12 Tie Wraps

30 ea. HT-16 Tie Wraps

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

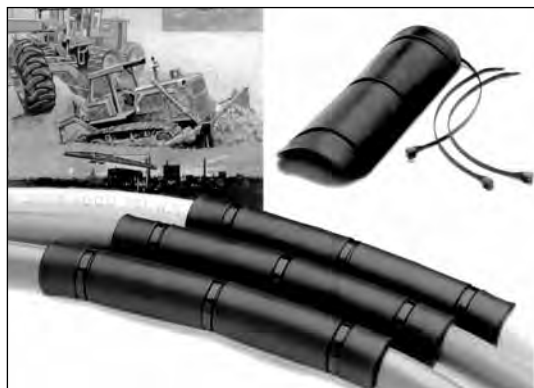
10 ea. HP-B-15 Hose Protectors (6").

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.

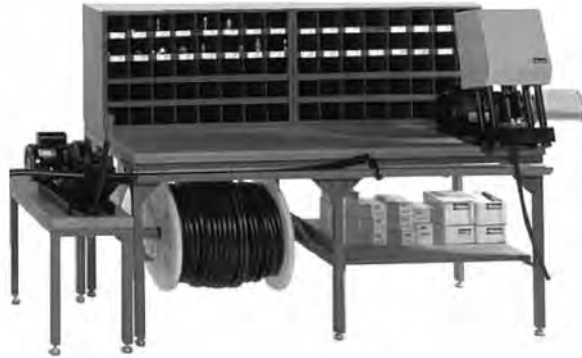
## HPD Hose Assembly Workstations



Hose Products Division has set up an agreement to allow Hose Products customers to purchase directly from our vendor, Safety Step.

Safety Step's contact information is:

Safety Step  
Annette Cox  
888-448-4237  
parker@safetystep.net



### 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

#### 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

- (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: Rotary Reel Rack (TH7-6)

- 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 (TH7-7)

- Calibrated to line up to Hose trough
- Adjustable feet
- Mounts to 6-foot bench

#### Specifications: 3 or 4 Reel Rack

- Free standing 3 reel rack (TH7-8)
- Bolts to floor
- Optional: 4th reel capacity with wall mounts (TH7-8-F)



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 332T-115V 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.

See Safety Step contact information at the top of this page

**Note:** Part number and specifications of components for both workstations are listed on the following pages.



## HoseFab Table

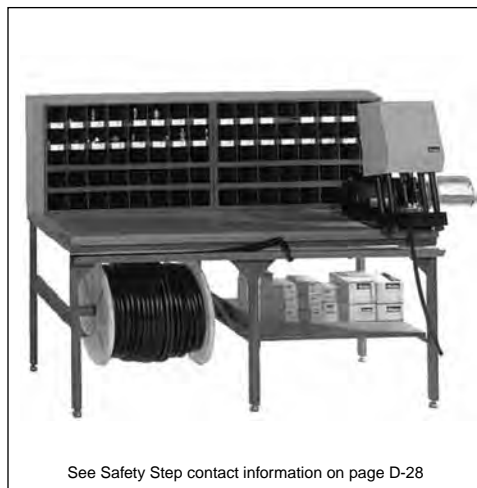
### Features

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:

Height - 31-3/4"  
Width - 29"  
Length - 72"



See Safety Step contact information on page D-28

## Rotary Reel Rack

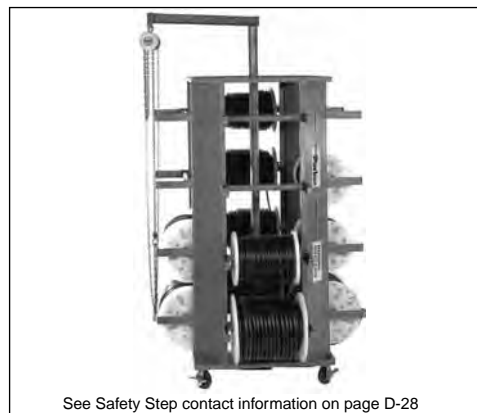
### Features

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:

Height - 104" (120" with optional overhead crane)  
Width - 67"  
Length - 67"



See Safety Step contact information on page D-28

## Saw Table

### Features

The Saw Table, specially designed for Parker 239 or 339 Hose Cut-Off Saw, attaches directly to the HoseFab Table.

Part Number	Description
TH7-7	15" wide table set up for Parker 239 or 339 Cut-Off Saw

### Table measurements:

Height - 18"  
Width - 28"  
Length - 14"



See Safety Step contact information on page D-28

## 3/4 Reel Rack

### Features

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:

Height - 59" (82-1/2" with 4th reel option)  
Width - 27-3/4"  
Length - 27-1/2"



See Safety Step contact information on page D-28

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A



See Safety Step contact information on page D-28

## 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.

B

C

D

E



## 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".)

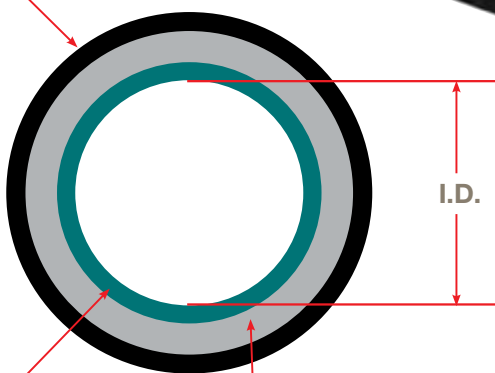
Yellow with black "Parker Hose" lettering.



<b>S</b>	<b>T</b>	<b>A</b>	<b>M</b>	<b>P</b>
SIZE	TEMPERATURE	APPLICATION	MEDIA	PRESSURE



Outer Cover



Inner Tube

Reinforcement

I.D.



Half SAE  
Bend



Tough  
Cover



SuperTough  
Cover



High  
Temperature



Low  
Temperature



Compact

Comprehensive information that helps you connect with the right hose and fittings. Visit [www.parkerhose.com](http://www.parkerhose.com) for the latest technical data.

# Technical

E



ENGINEERING YOUR SUCCESS.

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# Size

## Flow Capacities at Recommended Flow Velocities

The nomogram below is provided as an aid in determining the correct hose size.

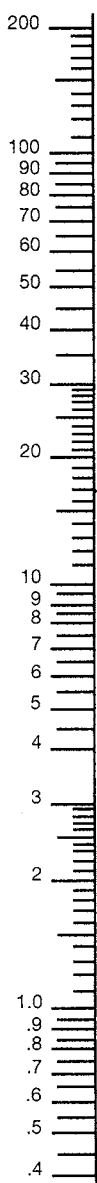
How to use the nomogram: Determine the proper flow rate your system requires, then connect a straight edge from the selected flow rate to the recommended velocity range. The required hose I.D. will appear at the intersection of the straight edge and the center column. If the straight edge passes through the scale between sizes listed, use the next larger I.D. hose.

Example: Locate 16 gallons per minute in the left-hand column and 20 feet per second (fps) 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.

Flow  
Gallons per Minute



**The nomogram is based on the following formula:**

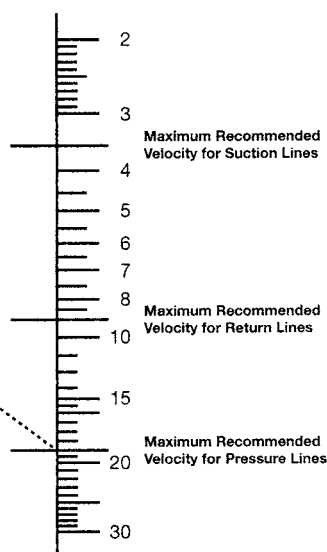
$$D = \sqrt{\frac{Q \times 0.4081}{V}}$$

Where: Q = Flow in Gallons per Minute (gpm)  
V = Velocity in Feet per Second (ft/sec)  
D = Hose Inside Diameter (inches)

**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**



Size

Hose Flow Capacities  
Pressure Drop

Hose Dash Size		-04		-05		-06		-08		-10		-12		-16		-20		-24		-32		-40	-48
Hose I.D. (Inches)		0.19	0.25	0.25	0.31	0.31	0.38	0.41	0.50	0.50	0.63	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.81	2.00	2.38	3.00
0.25	10.0	3.1	3.1																				
0.5	19.0	6.0	6.0	2.7	2.7																		
1	40.0	12.0	12.0	5.5	5.5	2.4																	
2	95.0	24.0	24.0	10.0	10.0	4.8	3.5																
3	185.0	46.0	46.0	17.0	17.0	7.0	5.0	2.2	2.2														
4		78.0	78.0	29.0	29.0	12.0	8.0	3.0	3.0	1.2	1.2												
5		120.0	120.0	44.0	44.0	18.0	12.0	4.5	4.5	1.6	1.6	0.7											
8				95.0	95.0	39.0	26.0	10.0	10.0	3.6	3.6	1.4	0.6										
10						59.0	40.0	15.0	15.0	5.7	5.7	2.0	1.0	0.6									
12						80.0	52.0	20.0	20.0	7.2	7.2	2.6	1.5	0.8	0.4								
15							75.0	30.0	30.0	10.0	10.0	4.2	2.2	1.2	0.7	0.4							
18							107.0	40.0	40.0	15.0	15.0	6.3	3.0	1.5	0.7	0.6	0.4						
20								49.0	49.0	19.0	19.0	8.0	3.4	2.0	1.1	0.7	0.4	0.3					
25								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										34.0	34.0	14.0	7.0	3.6	2.2	1.3	0.8	0.5	0.2	0.1			
35										47.0	47.0	19.0	9.5	5.0	2.8	1.7	1.1	0.7	0.3	0.2			
40												25.0	12.0	6.5	3.4	2.2	1.4	0.9	0.4	0.2			
50												36.0	17.0	9.0	5.3	3.3	2.0	1.3	0.5	0.4	0.2		
60												50.0	23.0	12.0	7.5	4.4	2.8	1.8	0.8	0.5	0.2		
70													31.0	17.0	9.3	6.0	3.8	2.4	1.0	0.7	0.3		
80													38.0	21.0	12.0	7.1	4.6	3.0	1.2	0.8	0.3	0.1	
90													49.0	27.0	15.0	9.0	5.9	3.8	1.5	1.0	0.5	0.1	
100														33.0	19.0	12.0	7.0	4.7	1.9	1.3	0.6	0.2	
150														60.0	36.0	22.0	13.0	8.5	3.4	2.2	1.0	0.3	
200																36.0	23.0	15.0	6.0	3.9	1.7	0.6	
250																54.0	33.0	22.0	8.5	5.3	2.5	0.8	
300																	45.0	29.0	12.0	7.5	4.0	1.1	
400																		51.0	21.0	14.0	6.5	2.2	
500																			32.0	20.0	10.0	3.0	
800																					18.0	5.0	
1000																							10.0

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.

# Temperature

## Temperature / Pressure Chart - 201, 206, 213, and 266 Hose

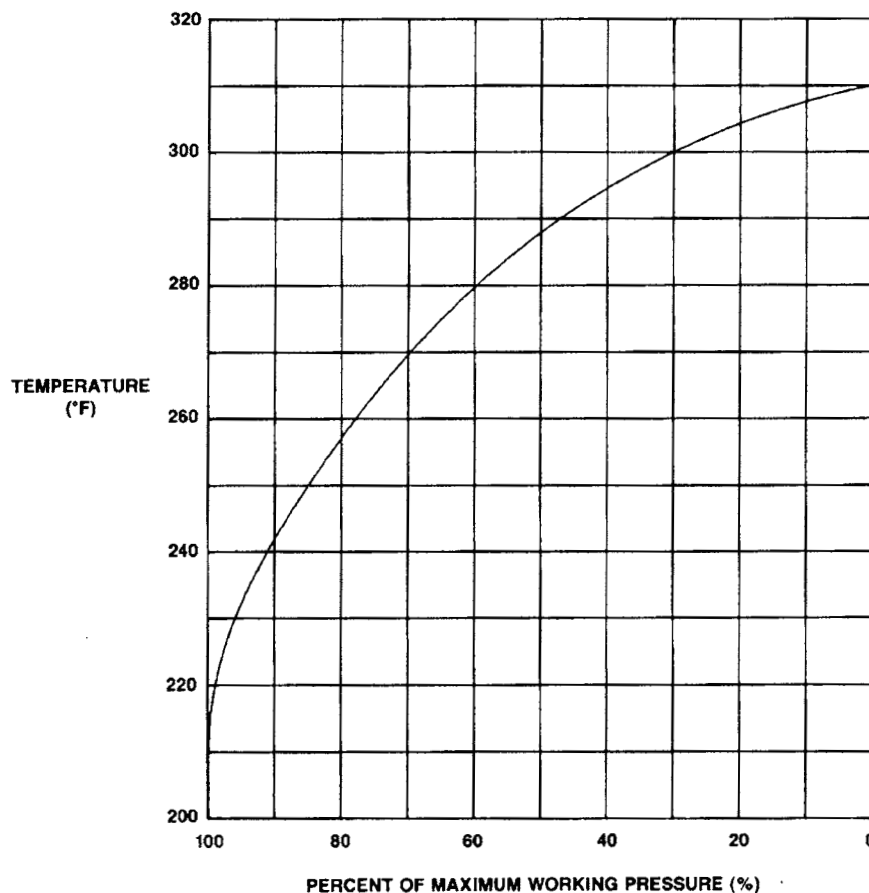
The Temperature / Pressure Chart identifies the effects temperature change has on the maximum working pressure of specific hoses.

### How to use the chart:

- 1st** - Identify the Maximum Working Pressure of selected hose.
- 2nd** - Identify the maximum working temperature of the application.
- 3rd** - Locate point where temperature and Percent of Maximum Working Pressure intersect on the chart.
- 4th** - Based on percentage figure, calculate Maximum Working Pressure of the application.

**Example:** 201-8 hose to be used at 250°F (121°C)

Maximum Working Pressure up to 212°F (100°C)	x	(Multiplier from chart)	=	Maximum Working Pressure at 250°F (121°C)
2,000 psi	x	(85%)	=	1,700 psi



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# T

## emperature

## Minimum/Maximum Temperature

(Page 1 of 4)

Hose	Petroleum base hydraulic fluids and lubricating oils	Antifreeze solutions	Diesel fuels	SAE J1942 Marine lube oil and diesel fuel systems (Application Code F)**
201*	-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)
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
271	x	x	x	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
302	-40°C to +100°C (-40°F to +212°F)	x	x	-40°C to +100°C (-40°F to +212°F)
304	x	x	x	x
351TC/ST	-40°C to +100°C (-40°F to +212°F)	x	x	x
422	-40°C to +100°C (-40°F to +212°F)	x	x	-40°C to +100°C (-40°F to +212°F)
424	x	x	x	x
426	-46°C to +150°C (-50°F to +302°F)	x	x	-46°C to +150°C (-50°F to +302°F)
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
611HT	-48°C to +150°C (-55°F to +302°F)	-45°C to +150°C (-55°F to +302°F)	-45°C to +150°C (-55°F to +302°F)	x
701	-40°C to +100°C (-40°F to +212°F)	x	x	x
711	-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/ST	-40°C to +125°C (-40°F to +257°F)	x	x	x
772LT	-57°C to +100°C (-70°F to +212°F)	x	x	x
722TC	-40°C to +125°C (-40°F to +257°F)	x	x	x
792LT	-57°C to +100°C (-70°F to +212°F)	x	x	x
787TC	-40°C to +125°C (-40°F to +257°F)	x	x	x
797TC	-40°C to +125°C (-40°F to +257°F)	x	x	x
F42	x	x	x	x
301LT	-55°C to +100°C (-67°F to +212°F)	x	x	x

\* The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on E-5 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.



# T

## emperature

## Minimum/Maximum Temperature

(Page 2 of 4)

Hose	Petroleum base hydraulic fluids and lubricating oils	Antifreeze solutions	Diesel fuels	SAE J1942 Marine lube oil and diesel fuel systems (Application Code F)**
731	-40°C to +100°C (-40°F to +212°F)	x	x	x
761	-40°C to +125°C (-40°F to +257°F)	x	x	x
772TC/ST	-40°C to +125°C (-40°F to +257°F)	x	x	x
772LT	-50°C to +100°C (-70°F to +212°F)	x	x	x
774	x	x	x	x
787TC	-40°C to +125°C (-40°F to +257°F)	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
P35	-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
797TC	-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
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
JK	-40°C to +49°C (-40°F to +120°F)	x	x	x
SS23CG	x	x	x	x
SS25UL	x	x	x	x
811HT	-46°C to +125°C (-50°F to +257°F)	x	x	x

\* The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on E-5 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.

# T

## emperature

## Minimum/Maximum Temperature

(Page 3 of 4)

Hose	Air	Water, water/oil emulsion	Water/glycol hydraulic	Water	Phosphate ester fluids	Polyol ester fluids
201*	+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
266*	+93°C (+200°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
271	100°C (212°F)	x	x	x	x	x
293	+93°C (+200°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
302	+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
351TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
422	+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)
611HT	+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
701	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
772LT	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
722TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
792LT	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
787TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
797TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
F42	+70°C (+158°F)	x	+85°C (+185°F)	+85°C (+185°F)	-40°C to +80°C (-40°F to +176°F)	x
301LT	+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 E-5 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.

# T

## emperature

## Minimum/Maximum Temperature

(Page 4 of 4)

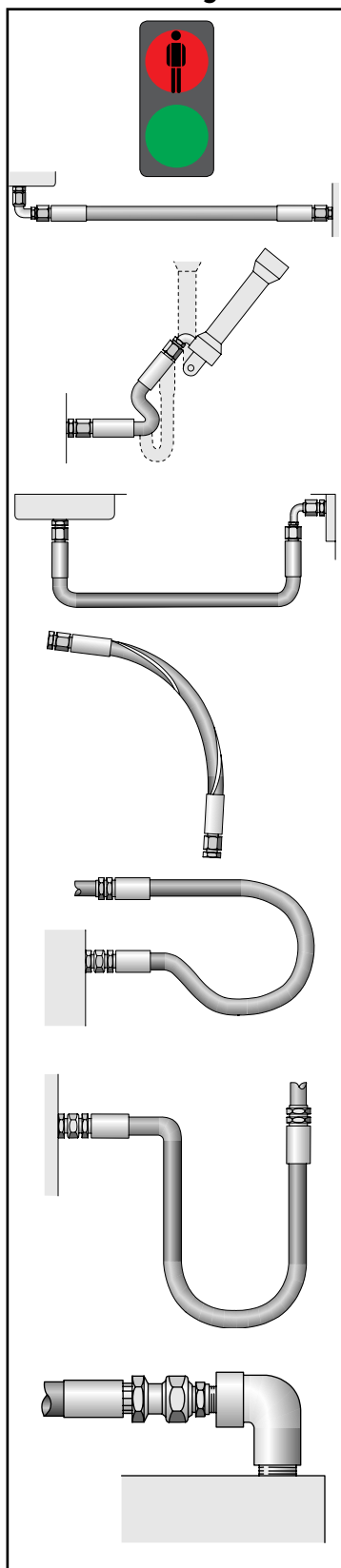
Hose	Air	Water, water/oil emulsion	Water/glycol hydraulic	Water	Phosphate ester fluids	Polyol ester fluids
711	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
721	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
721TC/ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
731	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
761	+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)
772LT	x	x	x	x	x	x
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
787TC	x	x	x	x	x	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)
P35	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
797TC	x	x	x	x	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
836	+100°C (+212°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
JK	x	x	x	x	x	x
SS23CG	x	x	x	x	x	x
SS25UL	x	x	x	x	x	x
811HT	+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 E-5 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.

# A pplication

wrong



The routing of the hose assembly and the environment in which the hose assembly operates directly influence the service life of the hose assembly. The following diagrams indicate the correct routing of hose assemblies that will maximise its service life and assure a safe working functionality.

When hose installation is straight, there must be enough slack in the hose to allow for changes in length that occur when pressure is applied. When pressurized, hose that is too short may pull loose from its hose fittings or stress the hose fitting connections, causing premature metallic or seal failures.

The hose length must be determined so that the hose assembly has enough slack to allow the system components to move or vibrate without creating tension in the hose.

However, do not allow too much slack and therefore introduce the risk of the hose snagging on other equipment or rubbing on other components.

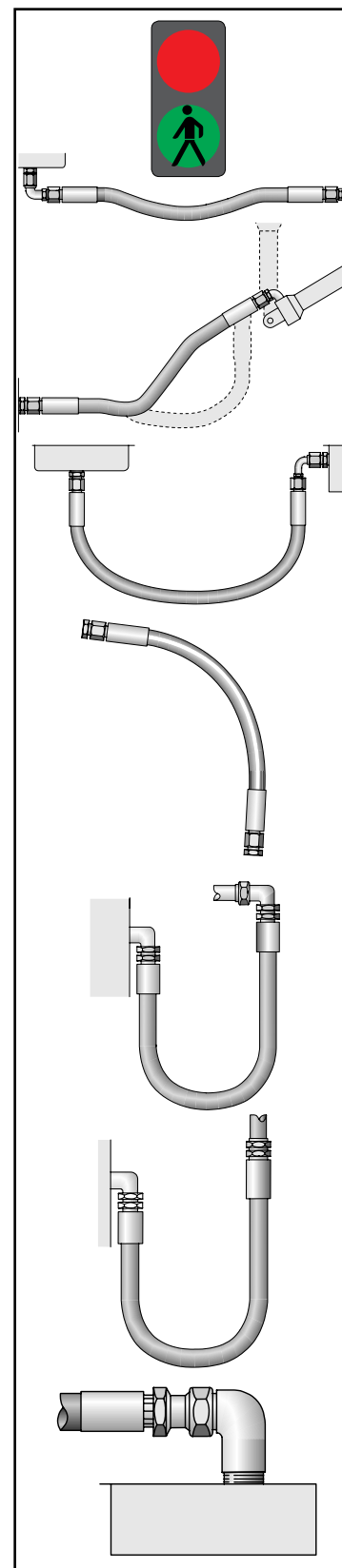
Mechanical straining of the hoses needs to be avoided, so the hose must not be bent below its minimum bend radius or twisted during installation. The minimum bending radii for each hose is stated in the hose tables in the catalogue.

The plane of movement must also be considered and the hose routing selected accordingly.

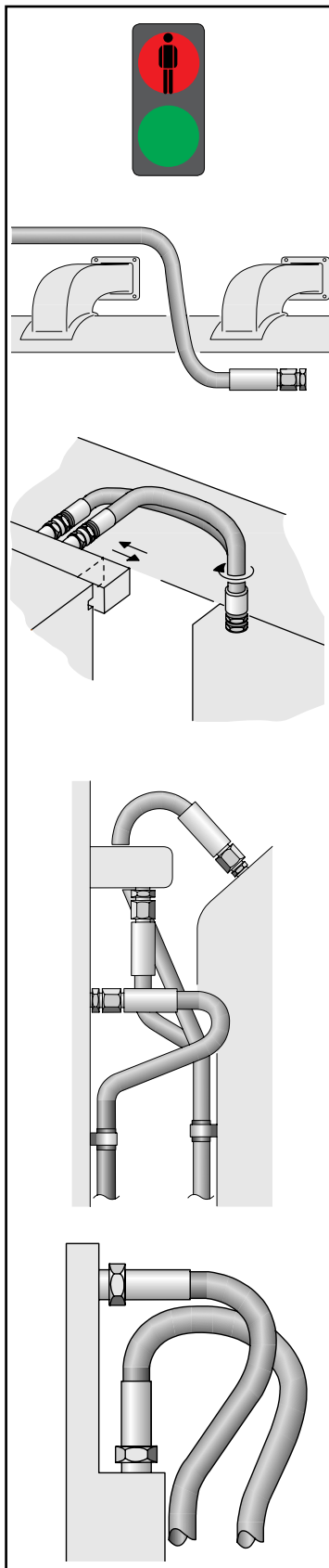
Hose routing also plays an important role on the selection of the hose fittings, as the correct fittings can avoid straining the hoses, unnecessary hose length or multiple threaded joints.

## Hose Installation Tips

right



## wrong



Correct clamping (holding/supporting) of the hose should be exercised to securely route the hose or to avoid the hose contacting surfaces that will cause the hose damage. It is however, vital that the hose be allowed to keep its functionality as a “flexible-pipe” and not be restricted from changing in length when under pressure.

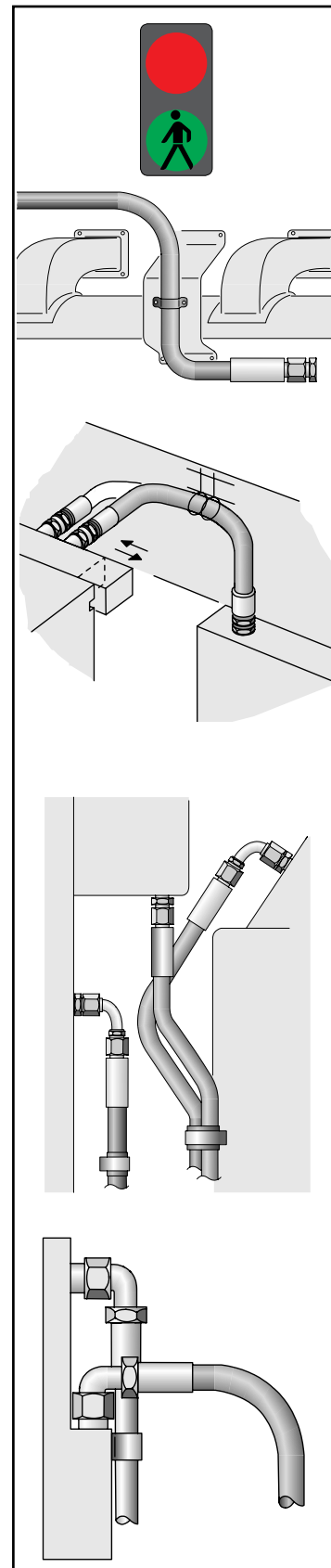
It should also be noted that hoses for high- and low-pressure lines shall not be crossed or clamped together, as the difference in changes in length could wear the hose covers.

Hose should not be bent in more than one plane. If hose follows a compound bend, it shall be coupled into separate segments or clamped into segments that each flex in only one plane.

Hoses should be kept away from hot parts as high ambient temperatures shorten hose life. Protective insulation may need to be used in unusually high ambient temperature areas.

While the importance of the functionality is primary, the aesthetics and practicality of the installation should also be considered in the design. Maintenance might be necessary at some point in the future, so prohibitive design routings should be avoided.

## right



A

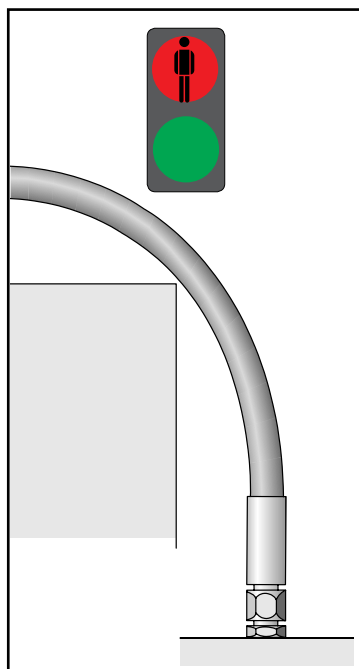
B

C

D

E

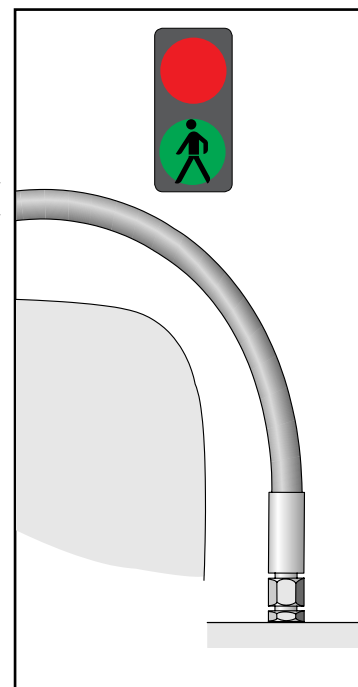
wrong

**Abrasive influences**

In general care should be taken so that the hose is not exposed to direct surface contact that will cause abrasive wearing of the outer cover (either hose to object or hose to hose contact). If however, the application is such that this cannot be avoided, either a hose with a higher abrasion resistant hose cover or a protective sleeve need to be used.

Parker **TOUGH COVER** (TC) or **SUPER TOUGH** (ST) covers offer 80 times or respectively 1000 times the abrasion resistance of standard rubber covers.

right



A

B

C

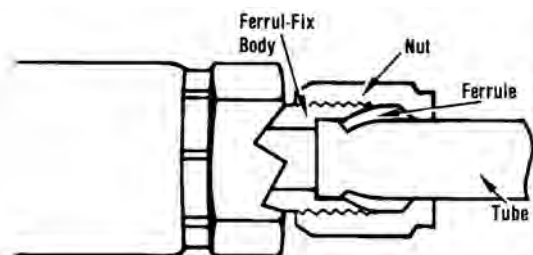
D

E

# A

## pplication

## Ferrule-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).



# A

## pplication

## Standards and Specifications

Hose	SAE J517	SAE Other	DOT FMVSS 106	USCG MTH (1)	ISO	DNV (2)	EN	MSHA (3)	German Lloyd	ABS	UL-21 LPG	BV	Other
AX		J1942		H				X					
BXX		J1942		H				X					
F42													
JK	100R2AT				ISO 1436-1 Type 2SN		EN 853 Type 2 SN	X					1J100, NFPA 1936
MX	100R1AT	J1942		H				X					
P35	100R13	J1942		HF	ISO 3862-1 Type R13	X	EN 853 Type R13	X		X		X	
SS23CG											X		CAN/CGA-8.1-M86 Type III, ECE 110 Class 1
SS25UL											X		AGA - AS/NZS 1869D
201	100R5	J1402 All	All										
206	100R5	J1402 All	All										
213		J1402 AI	AI										
221FR (4)		J1527 R3, J1942, USCG A1		H, HF	ISO 7840			X	X	X			ABYC
244		J2064 Type B											
266		J1402 All	All										
285		J2064 Type C											
293		J1402 AI	AI										
301LT		J1942		HF		X				X			
302	100R2AT	J1942		HF	ISO 1436-1 Type 2SN	X	EN 853 Type 2 SN			X		X	
304													
351ST	100R19							X					
351TC	100R19							X					
422	100R1AT	J1942		HF	ISO 1436-1 Type 1SN	X	EN 853 Type 1SN			X			
424													
426	100R1AT	J1942		HF				X		X			
431		J1942		H				X					
436		J1942		HF				X		X			
451ST	100R17							X					
451TC	100R17	J1942		HF				X		X			
471ST	100R16				ISO 11237-1 Type 2SC		EN857 Type 2SC	X					
471TC	100R16	J1942		HF	ISO 11237-1 Type 2SC	X	EN857 Type 2SC	X		X		X	
472TC		J1942		HF	ISO 11237-1 Type 2SC	X	EN857 Type 2SC	X		X			
482ST	100R1AT				ISO 1436-1 Type 1SN		EN853 Type 1SN	X					
482TC	100R1AT	J1942		H	ISO 1436-1 Type 1SN		EN853 Type 1SN	X					

### KEY TO UNDERSTANDING AGENCY APPROVALS FOR BUILDING HOSE ASSEMBLIES

ABS Approved assemblies can be manufactured at any location with Parker's permission. No restrictions.  
 DNV Approved assemblies can only be manufactured in a Parker approved location that demonstrates a quality system and management program is in place and must be audited by DNV. Each location must be granted a "license" issued by Parker HPD for building hose assemblies. Three exist today; Davenport Iowa, Grimsby Canada, and Yangsan Korea.

BV Approved assemblies can only be produced in a BV approved location that demonstrates a quality system and management program is in place. Each location must have an initial audit performed by BV before the "license" can be issued. Additionally, ongoing audits setup by BV will be required at each approved location. Davenport Iowa is our only approved assembler.

UL "Listed" CSA/CGA Assemblies must be made at Davenport Iowa  
 Assemblies must be made at Davenport Iowa

# A

## pplication

Continued from previous page

## Standards and Specifications

Hose	SAE J517	SAE Other	DOT FMVSS 106	USCG MTH (1)	ISO	DNV (2)	EN	MSHA (3)	German Lloyd	ABS	UL-21 LPG	BV
611HT	100R6						EN854	X				
701		J1942		H, HF	ISO 3862-1 Type 4SP		EN856-Type 4SP			X		
711		J1942		HF		X		X		X		
721	100R12				ISO 3862-1 Type R12		EN856-Type R12	X				
721ST	100R12				ISO 3862		EN856	X				
721TC	100R12	J1942		HF	ISO 3862-1 Type R12	X	EN856-Type R12	X		X		
722TC		J1942		HF		X		X		X		
731		J1942		HF		X	EN856-Type 4SH			X		
761								X				
772LT												
772ST	100R12				ISO 3862-1 Type R12		EN856-Type R12	X				
772TC	100R12	J1942		HF	ISO 3862-1 Type R12	X	EN856-Type R12	X		X		
774												
781	100R13	J1942		HF	ISO 3862-1 Type R13	X	EN856-Type R13	X		X		
782ST	100R13				ISO 3862-1 Type R13		EN856-Type R13	X				
782TC	100R13	J1942		HF	ISO 3862-1 Type R13	X	EN856-Type R13	X		X		X
787TC		J1754, J1942		HF	ISO18752-DC	X		X		X		
791TC	100R15	J1942		HF	ISO 3862-1 Type R15	X		X		X		
792ST	100R15				ISO 3862-1 Type R15			X				
792TC	100R15	J1942		HF	ISO 3862-1 Type R15	X		X		X		
797TC		J1754, J1942		HF	ISO18752-DC	X		X		X		
801								X				
804												
811HT with 81		J1942		HF								
821												
821FR												
836								X				
881		J1942		H, HF				X				

## 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. 221FR is certified to meet the EC Directive 94/25/EC in accordance with ISO 7840.

For questions on standards and specifications please contact the Hose Products' Technical Services Department at (440) 943-5700 or visit our website at <http://www.parkerhose.com> and go to the products tab. Click on approvals to find a complete list of updated hose specifications.



# A

## pplication

## Standards and Specifications

### 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](http://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 E-14 and E-15

# A

## pplication

## Assembly Methods

### JIC 37° and SAE 45° Flare

Parker's recommended assembly method for JIC 37° flare and SAE 45° flare is the Flats From Wrench Resistance (FFWR) method. This includes steel as well as other materials.

The torque values assigned by size are for reference only, and are only applicable to Parker system components using the FFWR method with trivalent chromate passivation on zinc plating of carbon steel components without lubrication.

Dash Size	Flats From Wrench Resistance (FFWR)	Swivel Nut Torque	
		Newton Meters (Ref)	Pound Feet (Ref)
-4	2	18	13
-5	2	23	17
-6	1-1/2	30	22
-8	1-1/2	57	42
-10	1-1/2	81	60
-12	1-1/4	114	84
-16	1	160	118
-20	1	228	168
-24	1	265	195
-32	1	360	265

### Seal-Lok®

Parker's recommended assembly method for Seal-Lok® connections is the torque method.

Dash Size	Swivel Nut Torque		Flats From Wrench Resistance (FFWR)
	Newton Meters (+10% / -0)	Pound Feet (+10% / -0)	
-4	25	18	1/2 - 3/4
-6	40	30	1/2 - 3/4
-8	55	40	1/2 - 3/4
-10	80	60	1/2 - 3/4
-12	115	85	1/3 - 1/2
-16	150	110	1/3 - 1/2
-20	205	150	1/3 - 1/2
-24	315	230	1/3 - 1/2
-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

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 5% higher than listed 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 Flats From Wrench Resistance (FFWR) and torque values listed above are consistent with the values recommended by Parker Tube Fittings Division (614) 279-7070 or [www.parker.com/tfd](http://www.parker.com/tfd).

A

B

C

D

E

# Identifying Fitting Types

A

In general fittings can be identified by their visual appearance, their sealing surface/sealing type or by their thread type/form. Viewing the following pages, the visual identification will be self explanatory. The sealing mechanism and the method of thread identification, however, needs further explanation

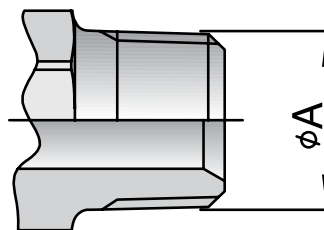
## Determining Sealing Mechanisms:

- Thread interface
- O-ring
- Matching angle or metal-to-metal joint
- Mated angle with O-ring

B

### Thread Interface

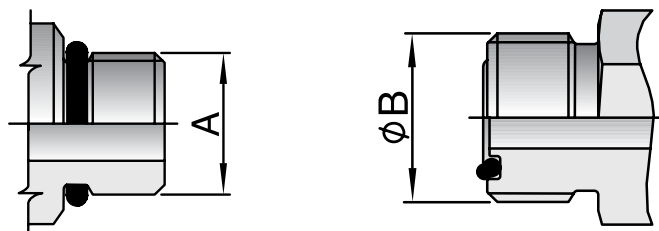
The sealing is assured by the flattening of the edges of the threads when the male is screwed into the female fitting. Typically the front of the male fittings is narrower than the back of the fittings – often referred to as tapered threads.



C

### O-ring

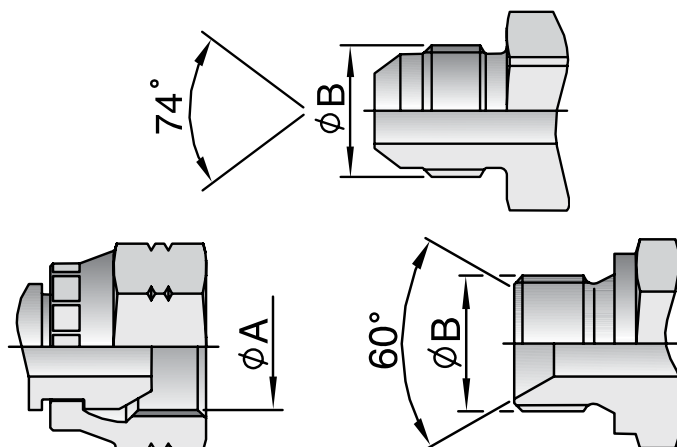
The O-ring on the male is compressed against the corresponding female and assures the seal. This type of sealing mechanism should be the preferred choice for high-pressure applications.



D

### Matching Angle or Metal-to-Metal Joint

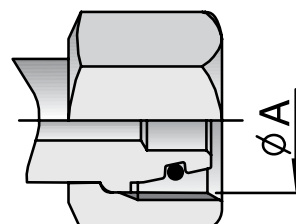
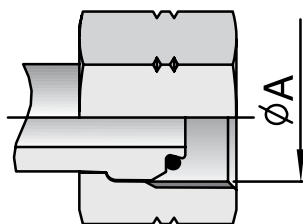
Sealing takes place where the two angled faces of the male and corresponding female meet and are wedged into one another by the tightening of the threaded nut. The sealing surfaces can either be convex or concave (seat) on the male or in the head of the pipe of the female as shown.



E

### Matching Angle with O-ring

These fittings combine the functionality of both the matching angle seal with the O-ring. The O-ring is in the angled sealing surface of the fitting so that when the threaded male and female are screwed together the sealing surfaces wedge together and at the same time deform the O-ring between them.



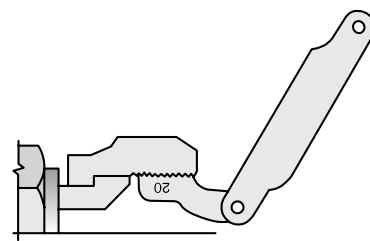
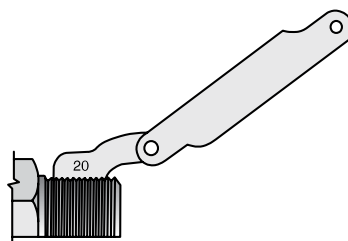
## Determining the Thread Type

In general of the threads of various fittings look similar and hinder the easy identification of the thread. To assure the correct identification, the threads must be measured and compared to the tables listed in the following section.

### Thread Gauge

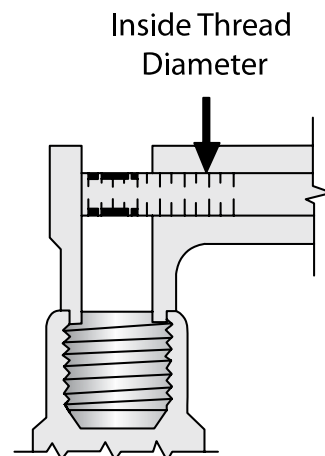
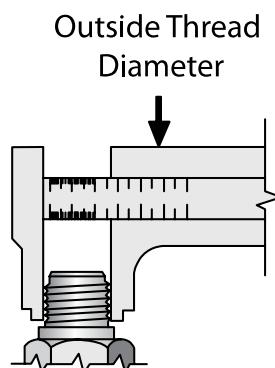
Using a thread gauge, the number of threads per inch can be determined.

Holding the gauge and coupling threads in front of a lighted background helps to obtain an accurate measurement.



### Caliper Measure

A vernier caliper should be used to measure the thread diameter of the largest point. (Outside diameter (O.D.) of male threads – Inside Diameter (I.D.) of female threads.)



## German DIN Hose Fittings

Often referred to as metric fittings, these fittings seal using the angled sealing surfaces (metal-to-metal) or the combination of metal-to-metal with O-rings.

They are available in very light (LL), light (L) or heavy series (S).

The sealing face angles are either 24° with or without O-rings, or 24°/60° universal cones.

Identification is made by measuring the thread size and also the tube outside diameter.

### DIN Very Light Series (LL)

The male 60° cone will mate with the female 60° cone only.

The male has a 60° sealing angle (seat) and straight metric thread. The female has a 60° seat and straight metric thread.

Standard

#### DIN 20078 Part 3 <sup>1)</sup>

Parker end configurations

**C0**

### DIN Light (L) and Heavy Series (S) without O-ring

The male 24° cone will mate with the female universal 24° or 60° cone only.

The male has a 60° sealing angle (seat) and straight metric threads. The female has a 24° and 60° universal seat and straight metric threads.

Standard

#### DIN 20078 Part 2 <sup>1)</sup>

(previously known as DIN 20078 A, D & E)

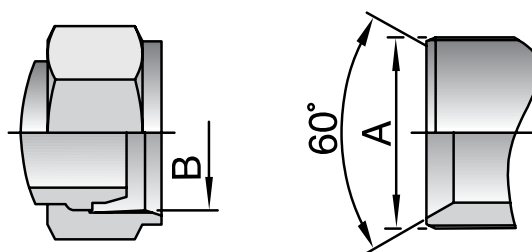
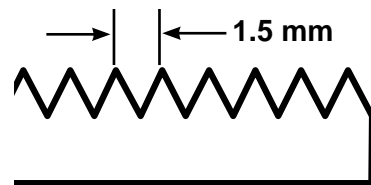
Parker end configurations

light series

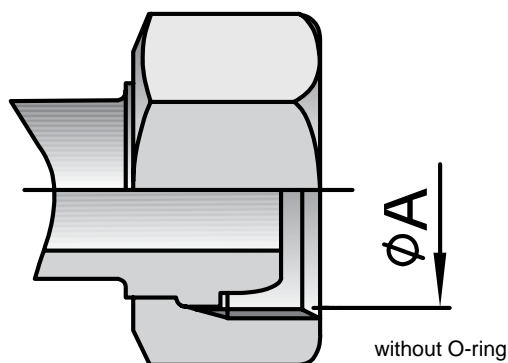
**C3, C4, C5, C6**

(Often also referred to as “Ball nose cones”)

Defined by the outside diameter and the pitch (distance between 2 crests of the thread) example: M22x1.5 - pitch of 1.5mm.



Tube O.D. (DN)	Thread metric	ØA (mm)	ØB (mm)
20	M30x1.5	30.00	28.50
25	M38x1.5	38.00	36.50
32	M45x1.5	45.00	43.50
40	M52x1.5	52.00	50.50
50	M65x2	65.00	63.00



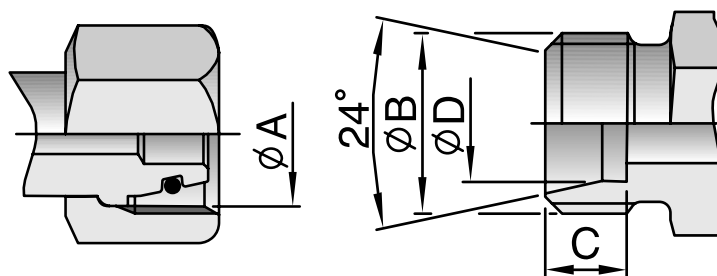
<sup>1)</sup> obsolete standard, no exact replacement



### DIN 24° Light (L) and Heavy Series (S) with O-ring

The male has a 24° sealing angle cone seat with straight metric threads.

The female has a 24° convex cone with O-ring and a swivel straight metric threaded nut.



with O-ring

Standard

**ISO 12151-2 / ISO 8434-1 & ISO 8434-4**

(Previously

DIN 20 078 Part 4, 5, 8, 9)

Parker end configurations  
light series

**CA, CE, CF, D0**

Parker end configurations  
heavy series

**C9, 0C, 1C, D2**

Tube O.D. (mm)	Spec.	Thread metric	ØA (mm)	ØB (mm)	C (mm)	ØD (mm)
6.00	6L	M12X1.5	10.50	12.00	7.00	6.20
6.00	6S	M14X1.5	12.50	14.00	7.00	6.20
8.00	8L	M14x1.5	12.50	14.00	7.00	8.20
8.00	8S	M16x1.5	14.50	16.00	7.00	8.20
10.00	10L	M16x1.5	14.50	16.00	7.00	10.20
10.00	10S	M18x1.5	16.50	18.00	7.50	10.20
12.00	12L	M18x1.5	16.50	18.00	7.00	12.20
12.00	12S	M20x1.5	18.50	20.00	7.50	12.20
14.00	14S	M22x1.5	20.50	22.00	8.00	14.20
15.00	15L	M22x1.5	20.50	22.00	7.00	15.20
16.00	16S	M24x1.5	22.50	24.00	8.50	16.20
18.00	18L	M26x1.5	24.50	26.00	7.50	18.20
20.00	20S	M30x2	27.90	30.00	10.50	20.20
22.00	22L	M30x2	27.90	30.00	7.50	22.20
25.00	25S	M36x2	33.90	36.00	12.00	25.20
28.00	28L	M36x2	33.90	36.00	7.50	28.20
30.00	30S	M42x2	39.90	42.00	13.50	30.20
35.00	35L	M45x2	42.90	45.00	10.50	35.30
38.00	38S	M52x2	49.90	52.00	16.00	38.30
42.00	42L	M52x2	49.90	52.00	11.00	42.30

## British Standard Pipe (BSP)

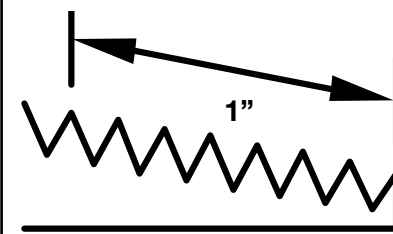
Also referred to as Whitworth threads, the BSP thread type fittings seal use metal-to-metal angled surfaces or a combination of metal-to-metal and an O-ring.

The angle of the sealing surfaces is 60° for both forms.

There are two popular thread forms:

British Standard Pipe Parallel (BSPP) and  
British Standard Pipe Tapered (BSPT).

Identification is made by measuring the outside diameter of the thread and the number of threads per inch (25.4 mm)



### BSPP BS5200

Parker end configurations  
92, B1, B2, B4, D9

### BSPP

metal-to-metal with O-ring  
Standard

### ISO 12151-6

Some Parker end configurations  
may be non-standard parts.

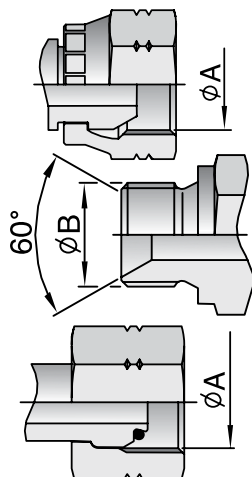
### BSPT

fittings seal through the thread  
interface mechanism. Care  
should be taken not to confuse  
the BSPT fitting with the NPTF  
male fitting. BSPT has a 55°  
thread angle. NPTF has 60°  
thread angle.

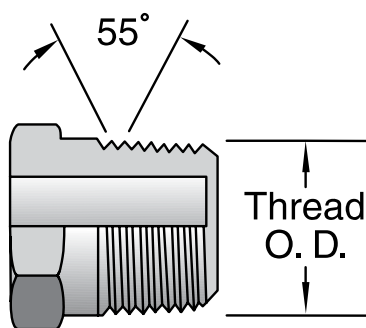
Parker end configuration  
91

### BSP Flat Seal

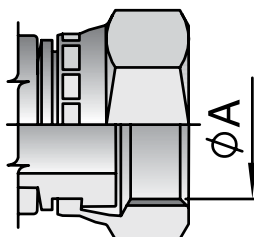
These fittings have BSP parallel  
threads but the sealing surface is  
flat. The seal is made when the  
composite seal is compressed  
against the female flat face.  
Some Parker end configurations  
may be non-standard parts.



Tube I.D./O.D. (mm)	Size	Thread BSP	ØA (mm)	ØB (mm)
6/10	-2	1/8x28	8.60	9.70
8/13	-4	1/4x19	11.50	13.20
12/17	-6	3/8x19	14.90	16.70
15/21	-8	1/2x14	18.60	20.90
18/23	-10	5/8x14	20.60	22.90
20/27	-12	3/4x14	24.10	26.40
26/34	-16	1x11	30.30	33.20
33/42	-20	1-1/4x11	38.90	41.90
40/49	-24	1-1/2x11	44.90	47.80
50/60	-32	2x11	56.70	59.60



Tube I.D./O.D. (mm)	Size	Thread BSP	ØA (mm)
5/10	-2	1/8x28	9.73
8/13	-4	1/4x19	13.16
12/17	-6	3/8x19	16.66
15/21	-8	1/2x14	20.96
20/27	-12	3/4x14	26.44
26/34	-16	1x11	33.25
33/42	-20	1-1/4x11	41.91
40/49	-24	1-1/2x11	47.80
50/60	-32	2x11	59.61



Tube I.D./O.D. (mm)	Size	Thread BSP	ØA (mm)
6/10	-2	1/8x28	8.6
8/13	-4	1/4x19	11.5
12/17	-6	3/8x19	14.9
15/21	-8	1/2x14	18.6
18/23	-10	5/8x14	20.6
20/27	-12	3/4x14	24.1
26/34	-16	1x11	30.3

## French Gas fittings

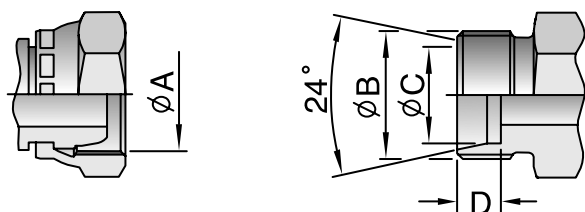
Typical to the French market the French Gas fittings have a 24° sealing surfaces seat with metric straight threads. Although similar to German DIN fittings the threads differ in some sizes as the French Gas fittings have fine threads in all sizes whereas the German DIN fittings use standard threads in the larger sizes.

### French Metric 24° Cone Gas Fittings

The sealing mechanism is metal-to-metal.

The fittings are not specified in any international standard.

Some Parker end configurations may be non-standard parts.



Tube O.D. (mm)	Spec.	Thread metric	ØA (mm)	ØB (mm)	ØC (mm)	D (mm)
6.00	6N	M12x1	11.00	12.00	6.20	9.00
8.00	8N	M14x1.5	12.50	14.00	8.15	9.00
10.00	10N	M16x1.5	14.50	16.00	10.20	9.00
12.00	12N	M18x1.5	16.50	18.00	12.15	9.00
13.25	13G	M20x1.5	18.50	20.00	13.50	9.00
14.00	14N	M20x1.5	18.50	20.00	14.15	9.00
15.00	15N	M22x1.5	20.50	22.00	15.15	9.00
16.00	16N	M24x1.5	22.50	24.00	16.15	9.00
16.75	17G	M24x1.5	22.50	24.00	17.00	9.00
18.00	18N	M27x1.5	25.50	27.00	18.15	9.00
20.00	20N	M27x1.5	25.50	27.00	20.15	9.00
21.25	21G	M30x1.5	28.50	30.00	21.50	9.00
22.00	22N	M30x1.5	28.50	30.00	22.15	9.00
25.00	25N	M33x1.5	31.50	33.00	25.15	9.00
26.75	27G	M36x1.5	34.50	36.00	27.00	9.00
28.00	28N	M36x1.5	34.50	36.00	28.25	9.00
30.00	30N	M39x1.5	37.50	39.00	30.25	9.00
32.00	32N	M42x1.5	40.50	42.00	32.25	9.00
33.25	34G	M45x1.5	43.50	45.00	33.80	9.00
35.00	35N	M45x1.5	43.50	45.00	35.25	9.00
38.00	38N	M48x1.5	46.50	48.00	38.25	9.00
40.00	40N	M52x1.5	50.50	52.00	40.35	9.00
42.25	42G	M52x1.5	50.50	52.00	42.55	9.00
48.25	49G	M58x2	55.90	58.00	49.00	11.00

## North American Thread Types

This type of fitting uses the thread interface to seal and as such has a tapered thread that deforms and forms the seal.

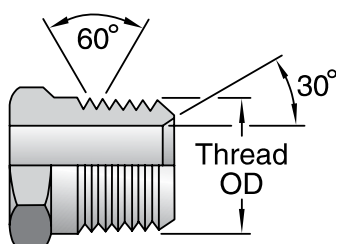
They have 30° sealing angle surfaces, forming a 60° inverted (concave) seat. The fittings are most frequently seen on machines of US origin.

### Dryseal American Standard Taper Pipe Thread (NPTF)

The NPTF male will mate with the NPTF, NPSF, or NPSM females. Care should be taken not to confuse the NPTF fitting with the BSPT male fitting. NPTF fittings have a 60° thread angle. BSPT has a 55° thread angle. Standard

#### SAE J516

Parker end configuration  
01



ØA dimension is measured on the 4th pitch of the thread

Size	Thread NPTF	ØA (mm)	ØB (mm)
-2	1/8x27	10.24	8.73
-4	1/4x18	13.61	11.90
-6	3/8x18	17.05	15.90
-8	1/2x14	21.22	19.05
-12	3/4x14	26.56	24.60
-16	1x11.5	33.22	30.95
-20	1-1/4x11.5	41.98	39.69
-24	1-1/2x11.5	48.05	45.24
-32	2x11.5	60.09	57.15

### SAE JIC 37°

Commonly referred to as JIC fittings, these metal-to-metal sealing type fittings have a 37° flare (sealing surface angle) and straight United National Fine Threads (UNF).

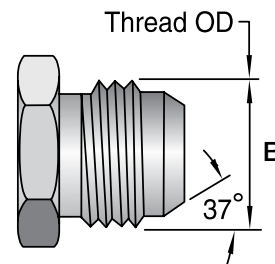
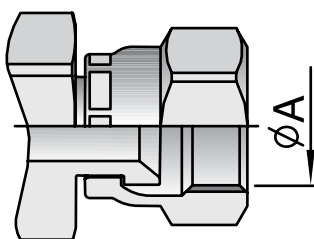
The original design specification for the fittings comes from the Society of Automotive Engineers (SAE) and these fittings are the most common American fitting types in Europe.

Standard

#### ISO 12151-5, ISO8434-2 and SAE J516

Parker JIC hose fittings are fully compatible with Parker Triple-Lok Tube Fittings and adapters.

Parker end configurations  
03, 06/68, 37/3V, 39/3W, 41/3Y, L9



Tube O.D. (inch)	Tube O.D. (mm)	Thread UNF	Size	ØA (mm)	ØB (mm)
3/16		3/8x24	-3	8.60	9.50
1/4	6	7/16x20	-4	10.00	11.10
5/16	8	1/2x20	-5	11.60	12.70
3/8	10	9/16x18	-6	13.00	14.30
1/2	12	3/4x16	-8	17.60	19.10
5/8	14-15-16	7/8x14	-10	20.50	22.20
3/4	18-20	1-1/16x12	-12	24.60	27.00
7/8	22	1-3/16x12	-14	28.30	30.10
1	25	1-5/16x12	-16	31.30	33.30
1-1/4	30-32	1-5/8x12	-20	39.20	41.30
1-1/2	38	1-7/8x12	-24	45.60	47.60
2		2-1/2x12	x32	61.50	63.50

**SAE 45° Flare**

The angle of the flare is commonly used as a name when referring to these metal-to-metal sealing fittings. The female fittings have a 90° concave inverted seat, created by the 45° angle sealing surfaces.

The SAE 45° flare male will mate with an SAE 45° flare female only or a dual seat JIC 37°/SAE45°.

Standard

**SAE J516**

Parker end configurations

**04, 08/68, 77/3V, 79/3W, 81/3Y**

**SAE O-ring (Boss Type)**

This male fitting has straight threads, a sealing face and an O-ring. It is compatible only with female boss type fittings generally found in the ports of machines. Sealing is achieved through the O-ring of the male and through the sealing face of the female.

Parker end configuration

**05**

**O-ring Face Seal (ORFS)**

ORFS fittings are becoming the most popular international fitting type used on global OEM machines due to their high level of sealing and their good vibration resistance. The fittings use the O-ring compression mechanism to seal.

The female fittings have flat faces and straight threaded UNF swivel nuts.

The male fittings have the O-ring in a groove in the flat face.

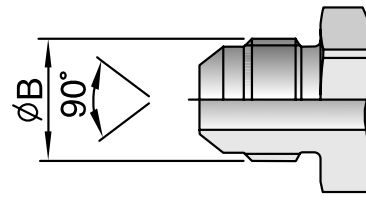
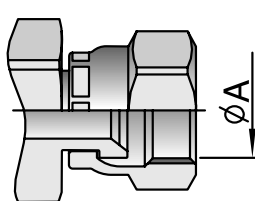
Seen as a major advantage, these fittings offer the possibility to build the hose assemblies into fixed distances/spaces, without having to move back other system components due the flat faces of the male and female fittings – the hose assembly can be slotted in.

Standard

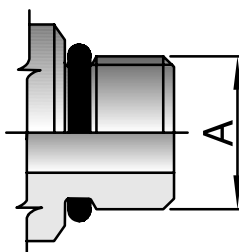
**ISO 12151-1, ISO8434-3 and SAE J516**

Parker end configurations

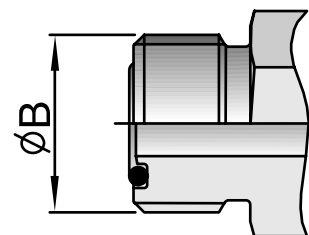
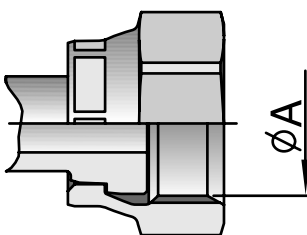
**JC, JM/J0, JS, JU, J1, J3, J5, J7, J9**



Tube O.D. (inch)	Size	Thread UNF	ØA (mm)	ØB (mm)
1/4	x4	7/16x20	9.90	11.10
5/16	-5	1/2x20	11.50	12.70
3/8	-6	5/8x18	14.30	15.90
1/2	-8	3/4x16	17.50	19.10
5/8	-10	7/8x14	20.60	22.20
3/4	-12	1-1/16x14	25.00	27.00



Thread UNF	Size	ØA (mm)
5/16x24	-2	7.93
3/8x24	-3	9.52
7/16x20	-4	11.11
1/2x20	-5	12.70
9/16x18	-6	14.28
3/4x16	-8	19.10
7/8x14	-10	22.22
1-1/16x12	-12	27.00
1-3/16x12	-14	30.10
1-5/16x12	-16	33.30
1-5/8x12	-20	41.30
1-7/8x12	-24	47.60
2-1/2x12	-32	63.50



Tube O.D. (inch)	Tube O.D. (mm)	Thread UNF	Size	ØA (mm)	ØB (mm)
1/4	6	9/16x18	-4	13.00	14.20
3/8	10	11/16x16	-6	15.90	17.50
1/2	12	13/16x16	-8	19.10	20.60
5/8	16	1x14	-10	23.80	25.40
3/4	20	1-3/16x12	-12	28.20	30.10
1	25	1-7/16x12	-16	34.15	36.50
1-1/4	32	1-11/16x12	-20	40.50	42.90
1-1/2	38	2x12	-24	48.80	50.80

## Flange Fittings

### Code 61 and Code 62

The 4-bolt split flange (or full flange) fitting is used worldwide for connecting high-pressure hoses typically to pumps, motors and cylinders, where the hose assemblies are subjected to large pressure loadings. The sealing mechanism is through compression of the O-ring in the face of the flange head against the surface of the port/connection.

The flange fittings are generally separated into two pressure classes referred to as 3000 psi (SFL) or 6000 psi (SFS).

ISO 12151-3 refers to the flange fittings as code 61 for the 3000 psi and code 62 for the 6000 psi. In addition to these flanges, customer-specific Komatsu® and CATERPILLAR® flanges can also be found in the market.

Parker end configurations

Code 61 (3000 psi)

**15, 16, 17, 19, P5, P7, P9**

5000 psi (Code 61 dimensions)

**4A, 4F, 4N**

Code 62 (6000 psi)

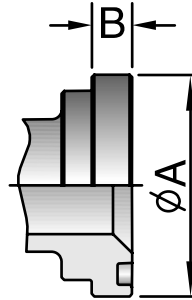
**6A, 6F, 6N, PA, PF, PN, 89**

Caterpillar flange

**XA, XF, XG, XN**

Although not in the SAE or the ISO standard the size -10 (5/8) flange head is gaining popularity. This flange is often found on Komatsu equipment or hydrostatic drives in agricultural machines.

- Standard Code 61 for 3000 to 5000 psi max., depending on size
- High Pressure Code 62 for 6000 psi max. regardless of size



Flange (inch)	Size	Code 61 MPa / psi	Code 62 MPa / psi
1/2	-8	34.5 / 5000	41.3 / 6000
3/4	-12	34.5 / 5000	41.3 / 6000
1	-16	34.5 / 5000	41.3 / 6000
1-1/4	-20	27.5 / 4000	41.3 / 6000
1-1/2	-24	20.7 / 3000	41.3 / 6000
2	-32	20.7 / 3000	41.3 / 6000

Note: 5000 psi in size -20/-24/-32 with 4A, 4F and 4N fittings and 50H flange halves.

### Code 61 – SAE – 3000 psi

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
1/2	-8	30.18	6.73	18.64x3.53
3/4	-12	38.10	6.73	24.99x3.53
1	-16	44.45	8.00	32.92x3.53
1-1/4	-20	50.80	8.00	37.69x3.53
1-1/2	-24	60.33	8.00	47.22x3.53
2	-32	71.42	9.53	56.74x3.53
2-1/2	-40	84.12	9.53	69.44x3.53
3	-48	101.60	9.53	85.32x3.53

### Code 62 – SAE – 6000 psi

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
1/2	-8	31.75	7.75	18.64x3.53
3/4	-12	41.28	8.76	24.99x3.53
1	-16	47.63	9.53	32.92x3.53
1-1/4	-20	53.98	10.29	37.69x3.53
1-1/2	-24	63.50	12.57	47.22x3.53
2	-32	79.38	12.57	56.74x3.53

### CATERPILLAR®

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
3/4	-12	41.28	14.22	25.40x5.00
1	-16	47.63	14.22	31.90x5.00
1-1/4	-20	53.98	14.22	38.20x5.00
1-1/2	-24	63.50	14.22	44.70x5.00

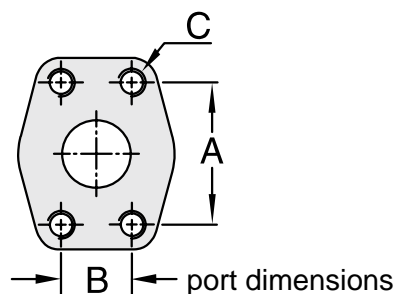
### Komatsu®

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
5/8	-10	34.25	6.00	21.7x3.5

### 4-Bolt Split Flange

A 4-bolt split flange is used to attach the flange fittings to their ports.

- Standard Code 61 for 3000 to 5000 psi max., depending on size
- High Pressure Code 62 for 6000 psi max., regardless of size



### Code 61 – SAE – 3000 psi

Flange (inch)	Size	A (mm)	B (mm)	C	
				(inch)	(metr.)
1/2	-8	38.1	17.5	5/16x18	M8x1.25
3/4	-12	47.6	22.3	3/8x16	M10x1.5
1	-16	52.4	26.2	3/8x16	M10x1.5
1-1/4	-20	58.7	30.2	7/16x14	M10x1.5
1-1/2	-24	69.9	35.7	1/2x13	M12x1.75
2	-32	77.8	42.8	1/2x13	M12x1.75*

### Code 62 – SAE – 6000 psi

Flange (inch)	Size	A (mm)	B (mm)	C	
				(inch)	(metr.)
1/2	-8	40.5	18.2	5/16x18	M8x1.25
3/4	-12	50.8	23.8	3/8x16	M10x1.5
1	-16	57.2	27.8	7/16x14	M12x1.75
1-1/4	-20	66.7	31.8	1/2x13	M12x1.75*
1-1/2	-24	79.4	36.5	5/8x11	M16x2
2	-32	96.8	44.4	3/4x10	M20x2.5

\*M14x2 still used in the market but no longer in accordance with ISO 6162

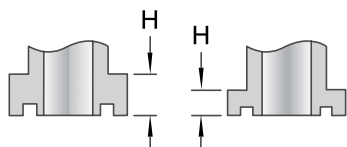
### Replacing Caterpillar® 6000 PSI Flange Fittings with SAE Code 62 Flange Fittings and Parker “Caterpillar®” Style Flange Fittings

Caterpillar® has a proprietary 6000 PSI hydraulic flange fitting for use on their equipment. This fitting is similar to the SAE Code 62 hydraulic flange (SAE J518). Flange diameters and bolt hole spacing are the same. The Caterpillar® flange head is thicker (.560” in all sizes) and the configuration and location of the O-ring groove is different, requiring the use of a special O-ring.

The Caterpillar® 6000 PSI flange fitting can be replaced with a Parker “Caterpillar®” style flange fitting

such as the 1XA78 using the existing Caterpillar® flange halves and bolts. In this case the XARG O-ring would be used. The fitting could also be replaced with a standard Code 62 flange fitting such as the 16A78. In this case use HFH flange halves or the HFHFHK kit with the standard SAE O-ring (711510).

Do not use the Caterpillar® 6000 PSI split flange halves on SAE Code 62 flange fittings or SAE Code 62 flange halves on Caterpillar® 6000 PSI flange fittings.



Size		H (in)	
		Caterpillar®	SAE Code 62
3/4	(-12)	.560	.345
1	(-16)	.560	.375
1-1/4	(-20)	.560	.405
1-1/2	(-24)	.560	.495

Procedure	P-ring P/N	Flange Half P/N	Flange Kit P/N
When replacing Caterpillar® 6000 PSI Flange Fittings with Parker “Caterpillar®” Style Fittings:	XARG-Size	Use existing flange halves and bolts	Use existing flange halves and bolts
When replacing Caterpillar® 6000 PSI Flange Fittings with SAE Code 61 Flange Fittings:	711510*	HFH-Size	HFHFHK-Size



## Japanese fittings

The Japanese Industrial Standard (JIS) is seen on most Japanese equipment and uses a 30° sealing angle seat and either British Standard Pipe Parallel or metric threads.

Care must be taken not to confuse the JIS fittings with BSP or JIC fittings.

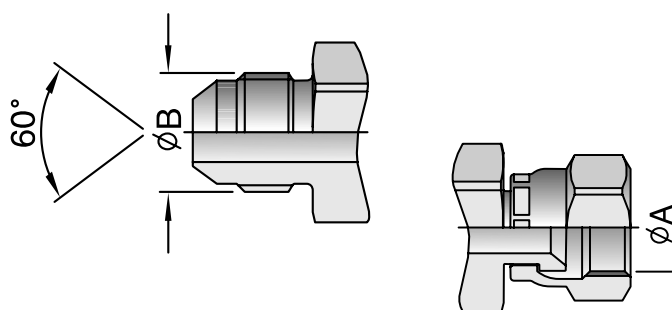
### Japanese fittings - JIS

The sealing mechanism of the fittings is the 30° metal-to-metal angled surfaces

Parker end configurations

**MU, XU (Metric)**

**FU (BSP)**



### JIS 30° metric

Symbol	Thread metric	ØA (mm)	ØB (mm)
MU-6	M14x1.5	12.50	14.00
MU-9	M18x1.5	16.50	18.00
MU-12	M22x1.5	20.50	22.00
MU-15	M27x2	25.00	27.00
MU-19	M27x2	25.00	27.00
MU-25	M33x2	31.00	33.00
MU-32	M42x2	40.00	42.00
MU-38	M50x2	48.00	50.00
MU-50	M60x2	58.00	60.00









### JIS 30° BSP










Symbol	Thread BSP	ØA (mm)	ØB (mm)
GUI-3	1/8x28	8.60	9.70
GUI-5/-6	1/4x19	11.50	13.20
GUI-8/-9	3/8x19	14.90	16.70
GUI-12	1/2x14	18.60	20.90
GUI-15/-19	3/4x14	24.10	26.40
GUI-25	1x11	30.30	33.20
GUI-32	1-1/4x11	38.90	41.90
GUI-38	1-1/2x11	44.90	47.80
GUI-50	2x11	56.70	59.60

# A

## Application

## 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 Flare-less 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 1/6 - 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	-

									
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 Gaz Series	French Swivel Female Metric Series	French Male Stud Metric Series
4	-	-	-	-	1/4x19	1/4x19	--	-	-
6	M12x1,5	M14x1,5	M12x1,5	M14x1,5	3/8x19	3/8x19	-	-	M12x1
8	M14x1,5	M16x1,5	M14x1,5	M16x1,5	1/2x14	1/2x14	-	-	M14x1,5
10	M16x1,5	M18x1,5	M16x1,5	M18x1,5	5/8x14	5/8x14	-	-	M16x1,5
12	M18x1,5	M20x1,5	M18x1,5	M20x1,5	3/4x14	3/4x14	-	-	M18x1,5
-	-	-	-	-	-	-	M20x1,5	-	-
14	-	M22x1,5	-	M22x1,5	-	-	-	-	M20x1,5
15	M22x1,5	-	M22x1,5	-	-	-	-	-	M22x1,5
16	-	M24x1,5	-	M24x1,5	1x11	1x 11	-	-	M24x1,5
-	-	-	-	-	-	-	M24x1,5	-	-
18	M26x1,5	-	M26x1,5	-	-	-	-	-	M27x1,5
20	-	M30x2	-	M30x2	1 1/4x11	1 1/4x11	-	-	M27x1,5
-	-	-	-	-	-	-	M30x 1,5	-	-
22	M30x2	-	M30x2	-	-	-	-	-	M30x1,5
25	-	M36x2	-	M36x2	1 1/2x11	1 1/2x11	-	-	M33x1,5
-	-	-	-	-	-	-	M36x1,5	-	-
28	M36x2	-	M36x2	-	-	-	-	-	M36x1,5
30	-	M42x2	-	M42x2	2x11	2x11	-	-	M39x1,5
33	-	-	-	-	-	-	M45x1,5	-	-

# A

## pplication

## Standard Fitting Configurations by Connection and End Code

	Description	End Code
A	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
B	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
C	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 - 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
D	Female SAE 45 / Swivel - 90° Elbow - Long Drop	81
	Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight	68
	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
E	Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R12	45-PR

	Description	End Code
A	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
B	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 R134a	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
C	Female Tube-O - Swivel - Straight - Long Pilot with Charge Port	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	5N-PB
	Female Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port	5N-PT
	Female Tube-O - Swivel - 90° Elbow - Short Pilot	5T
	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
D	Female Compressor - Swivel - 180° Elbow - Block Type	RZ
	Two Hole (2.25" X 0.44") Flange - Rigid - 90° Elbow	2H
	SAE Code 61 Flange Head - Straight	15
	SAE Code 61 Flange Head - Straight (5,000 psi)	4A
	SAE Code 61 Flange Head - 22½° Elbow -	16

Continued on next page

# A

## pplication

Continued from previous page

	Description	End Code
Flange	SAE Code 61 Flange Head-30° Elbow	26
	SAE Code 61 Flange Head-45° Elbow	17
	SAE Code 61 Flange Head-45° Elbow (5,000 psi)	4F
	SAE Code 61 Flange Head-60° Elbow	27
	SAE Code 61 Flange Head - 67½° Elbow	18
	SAE Code 61 Flange Head - 90° Elbow	19
	SAE Code 61 Flange Head - 90° Elbow - (5,000 psi)	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	6A
	SAE Code 62 Flange Head - 22½° Elbow	6B
	SAE Code 62 Flange Head - 30° Elbow	6E
	SAE Code 62 Flange Head - 45° Elbow	6F
	SAE Code 62 Flange Head - 60° Elbow	6G
	SAE Code 62 Flange Head - 90° Elbow	6N
	Caterpillar® Flange Head - Straight	XA
	Caterpillar® Flange Head - 22½° Elbow	XB
	Caterpillar® Flange Head - 30° Elbow	XE
Seal-Lok	Caterpillar® Flange Head - 45° Elbow	XF
	Caterpillar® Flange Head - 60° Elbow	XG
	Caterpillar® Flange Head - 67½° Elbow	XM
	Caterpillar® Flange Head - 90° Elbow	XN
	Male Seal-Lok - Rigid - Straight (with O-Ring)	J0
	Male Seal-Lok - Bulkhead without Locknut - Straight (with O-Ring)	JB
	Female Seal-Lok - Swivel - Straight - Long	JS
	Female Seal-Lok - Swivel - Straight - Short	JC
	Female Seal-Lok - Swivel - 221/2° Elbow	J6
	Female Seal-Lok - Swivel - 45° Elbow	J7
Metric	Female Seal-Lok - Swivel - 90° Elbow - Short Drop	J9
	Female Seal-Lok - Swivel - 90° Elbow - Medium Drop	J5
	Female Seal-Lok - Swivel - 90° Elbow - Long Drop	J1
	Female Metric Swivel - Straight (30° Flare)	MU
	Female Metric - Swivel - Straight (30° Flare)	XU
	Male Metric L - Rigid - Straight (24° Cone)	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

## Standard Fitting Configurations by Connection and End Code

	Description	End Code
Metric	Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5
	Female Metric L - Swivel - Straight (24° Cone with O-Ring)	CA
	Female Metric L - Swivel - 45° Elbow (24° Cone with O-Ring) -	CE
	Female Metric L - Swivel - 90° Elbow (24° Cone with O-Ring) -	CF
	Male Metric S - Rigid - Straight (24° Cone)	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)	C9
BSP	Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring)	0C
	Female Metric S - Swivel - 90° Elbow (24° Cone with O-Ring)	1C
	Male BSP Taper Pipe - Rigid - Straight	91
	Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	92
	Male BSP Parallel Pipe - Rigid - Straight (60° Cone)	D9
	Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	B1
	Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	B2
	Female BSP Parallel Pipe - Swivel - 90° Elbow Block Type (60° Cone)	B4
	Female BSP Parallel Pipe - Swivel - Straight (Flat Seat)	B5
	Male BSP Taper Pipe - Rigid - 45° Elbow	BV
Fr. Gaz	Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet	BZ
	Female BSP Parallel Pipe - Swivel - Straight (30° Flare)	FU
	Male BSP Taper Pipe - Rigid - Straight (60° Cone)	UT
	Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	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
Specialty	88 Series Hose Clamp- SAE 100R4 Two-Bolt Clamp	88HC-H
	88 Series Hose Clamp (Worm Gear)	88HC
	Push-Lok Union	82
	Hose Splicer	88
	Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34
	Male Ferulok Flareless-Rigid-Straight (24° Cone with Nut and Ferrule)	11
	Female Ferulok Flareless - Swivel - Straight (24° Cone)	12
	Female Air Brake Jounce Line - Swivel - Straight	7B
	Male Refrigerant Tube Mender - Straight (with Nut and Ferrule)	T1
	Female PTT 30° - Swivel	32
	Male SAE Compression Seat (without Nut or Sleeve)	61

# A

## pplication

## Metric Conversion

### METRIC to ENGLISH EQUIVALENTS ENGLISH to METRIC EQUIVALENTS

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 ÷ 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)

### METRIC I.D. KIT

#### INTERNATIONAL HOSE FITTING IDENTIFICATION KIT

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:

- U.S. Standards
- British Standard Pipe
- German (DIN) Metric
- French Metric and GAZ
- Japanese Standards (JIS)

#### Contents of Kit:

- Instruction Book with Tables
- Screw Pitch Gauge for U.S. Threads
- International Gauge for Metric and British Threads
- Inch and Millimeter Caliper
- Carry Case

For information, contact your local distributor or the Parker Catalog Service Department - 1-800-272-7537 or 1-614-279-7070.

### MILLIMETERS to FRACTIONS to DECIMALS

MM			INCHES			MM			INCHES		
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



## Chemical Resistance Information

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### 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 effects on physical properties.

X = Unsuitable, severe effects on physical properties.

~ = No rating, insufficient information.

Note: All data based on 70°F unless otherwise noted.

Please visit [www.Parkerhose.com](http://www.Parkerhose.com) for the latest information.

#### Numerals

1. For air or gaseous applications above 250 PSI (1,7 MPa), the cover should be pin pricked. The service life for air or gaseous applications can be unpredictable, especially at higher pressures. Contact Technical Service Department for more information.
2. Legal and insurance regulations must be considered. Contact Technical Service Department for more information.
3. Push-Lok hoses 801 and 836 are approved for diesel fuel applications only when coupled with HY series fittings.
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, F42 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. Use SS23CG or SS25UL
12. Use SS23CG

#### Hose Types

##### Column I

AX, BXX, P35, 201, 341, 422, 601, 701, 711 721, 721TC, 721ST, 731, 761, 781, 791TC, 881

##### Column II

SS25UL, 301LT, 351TC, 351ST, 421WC, 431, 451TC, 451ST, 471TC, 471ST, 772LT, 792LT, 801, 811, 811HT

##### Column III

JK, 221FR, 302, 472TC, 482TC, 482ST, 722TC, 772TC, 772ST, 782TC, 782ST, 787TC, 792TC, 792ST, 797TC, 821

##### Column IV

206, 213, 266, 293, 426, 611HT, 821FR, 836, 436

##### Column V

F42, 304, 424, 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.

## Media

Chemical Resistance  
Information (Page 1 of 9)

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
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 31	F	A	A	F	~	A	A	A
AEROSHELL Turbine Oil 500	X	X	F	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
Americas Choice AW ISO 46	~	F	F	~	~	~	~	~
Ammonia (Anhydrous)	X	X	X	X	X	X	X	X
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
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
Aries/Athena	F	F	F	~	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
Astrol 1044AW	A	A	A	~	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
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
Bio Diesel B20	~	A	A	A	X	A	A	A
Bio-Soy, Agri Industries	X	A	A	X	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



## Media

Chemical Resistance  
Information (Page 2 of 9)

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Brayco Micronic 745	~	A	A	F	X	A	A	A
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 11				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
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
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
Chevron Rykon MV	F	A	A	~	~	A	A	A
Cindol 3204 PBR	~	A	A	A	X	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 FR 201-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

A

B

C

D

E



# Chemical Resistance Information

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
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 (to 170°F)	A	A	A	A	X	A	A	A
Dexron III ATF (to 212°F)	X	F	F	A	X	A	A	A
Dexron III ATF (to 250°F)	X	X	X	F	X	A	A	A
Dexron III ATF (to 300°F)	X	X	X	X	X			
Dexron VI ATF (to 170°F)	A	A	A	A	X	A	A	A
Dexron VI ATF (to 212°F)	X	F	F	A	X	A	A	A
Dexron VI ATF (to 250°F)	X	X	X	X	X	A	A	A
Dexron VI ATF (to 300°F)	X	X	X	X	X			
DexronIIIE/Mercon (at 212°F)	X	A	A	A	X	A	A	A
Diesel Fuel (Standard and Ultra Low Sulfur)	F,3	A,3	A,3	A,3	X	A	A	A
Diester Fluids	X	X	X	F	X	A	A	A
Dow Corning 2-1802 Sullair (24KT)	~	~	~	F	~	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
Dow Sullube 32	~	~	~	F	~	A	A	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	~	~	A	A	A
Envirologic 3032, 3046, 3068	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 2380 Turbo Oil	X	F	F	X	X	A	A	A
Exxon 3110 FR	A	A	A	A	X	A	A	A
Exxon Esstic	A	A	A	A	A	A	A	A
Exxon Mobil Rarus SHC 1026	~	~	~	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

# Media

## Chemical Resistance Information (Page 4 of 9)

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Fenso 150	~	A	A	~	X	A	A	A
Formaldehyde	X	X	X	A	A	X	F	A
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
Green Plus ES	X	A	A	X	~	A	A	A
Greens Care 32, 46	F	A	A	F	~	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 419 Hydraulic Fluid	A	A	A	~	X	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

A

B

C

D

E



# Chemical Resistance Information

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
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
Hyspin SP 10	~	A	A	A	~	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	A,3	A,3	~	X	A	A	A
JP5	X	A,3	A,3	F,3	X	A	A	A
JP9	X	X	X	X	X	A	~	A
Kaeser 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
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 11					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 12					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 FR 303-M	X	X	X	X	X	A	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



# Chemical Resistance Information

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
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 EAL Evirosyn 46	A	A	A	A	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	A	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 12			A	A	A
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

A

B

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E



# Chemical Resistance Information

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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.

MEDIA	I	II	III	IV	V	Steel	Brass	SS
Pennzbell AWW	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	A	A	~	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 11					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
Quakerol 641, 720	X	F	A	X	F	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 (71°C, 160°F maximum)	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



# Chemical Resistance Information

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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.

MEDIA	I	II	III	IV	V	Steel	Brass	SS
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	F,8	F,8	F,8	F,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
Schaeffer Oil #112 HTC @ 158°F max	A	A	A	~	X	A	A	A
Schaeffer Oil #112 HTC @ 158°F to 212°F	F	F	F	~	X	A	A	A
Schaeffer Oil #275 Dilex Supreme @ 158°F max	A	A	A	~	X	A	A	A
Schaeffer Oil #275 Dilex Supreme @ 158°F to 212°F	F	F	F	~	X	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

A

B

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# Chemical Resistance Information

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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.

MEDIA	I	II	III	IV	V	Steel	Brass	SS
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 0%-30% Room Temp	F,6	F,6	F,6	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
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
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

# Pressure

## Pressure Rating of Hose End Connections

### 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.

Hose End Connection Description	Part Number Codes	Inch Size Fittings (psi)													
		-2	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-46	-48	
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			
JIS	FU, GU, MU & UT		5,000		5,000	5,000		4,000	3,000	2,500	1,500	1,500			
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			
37° Flare 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®* (O-ring Face Seal)	JM, JC, JS, J0, J1, J5, J7 & J9		9,200		9,200	9,200	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	2,500	2,000	
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			

For adapter pressure ratings, see Tube Fittings Division catalog 4300.

\*NOTE: 45°, 37° and Seal-Lok Torque Tables are on page E-17

\*\*NOTE: For pressure rating of 01, 06 and 39 end configurations in 73, 78, and 79 series, see each description in Section B.

Hose End Connection Description	Part Number Codes	Metric Fittings (psi)															
		-6	-8	-10	-12	-14	-15	-16	-18	-20	-22	-25	-28	-30	-35	-38	-42
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 (psi)				
		-13	-17	-21	-27	-33
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 HOSES ARE LISTED WITH EACH HOSE DESCRIPTION IN SECTION A.

# P

## ressure

## Metric Pressure Conversions

A

B

C

D

E

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	200,0	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

# C

## onversions

## PSI and MPa or N/mm2 Conversions

Pounds per Square Inch (abbrev. PSI) - A basic unit of pressure or tension measurement in the Imperial or English System of Weights and Measures.

$$1 \text{ psi} = .006895 \text{ MPa},$$

$$1000 \text{ psi} = 1 \text{ ksi}$$

MegaPascal (abbrev. MPa) - A basic unit of pressure or tension measurement in the International System of Weights and Measures.

$$1 \text{ MPa} = 145 \text{ psi},$$

$$1 \text{ MPa} = 1 \text{ N/mm}^2.$$

For oil field applications, units of measurement smaller than 1 psi usually have little meaning. Units of MPa may often appear with a decimal.

$$\text{Example: } 1000 \text{ psi} = 6.895 \text{ MPa}.$$

$$1 \text{ MegaPascal (MPa)} = 1 \text{ Newton per Square Millimeter (N/mm}^2\text{)} = 145 \text{ Pounds per Square Inch (psi)}.$$

Psi, Ksi, MPa, and N/mm<sup>2</sup> all express force measurement, either pressure (as fluid pressure) or load (as tension). All of these terms may appear as pressure ratings or test pressures, and tensile or yield requirements or test results.

### API Spec 6A specifies equipment pressure ratings in both PSI, and MPa as:

2,000 psi	=	13.8 MPa	=	138 bar
3,000 psi	=	20.7 MPa	=	207 bar
5,000 psi	=	34.5 MPa	=	345 bar
10,000 psi	=	69.0 MPa	=	690 bar
15,000 psi	=	103.5 MPa	=	1,035 bar
20,000 psi	=	138.0 MPa	=	1,380 bar

Bar pressure provided for information only.

To express PSI pressures in bars, convert PSI to MPa and move the decimal in the MPa value 1 space to the right, e.g. 5000 PSI = 34.5 MPa = 345 bar.

### API Spec 6A specifies material property requirements\* as:

Material Designation	Yield		Tensile	
	PSI	MPa	PSI	MPa
36 K	36,000	248	70,000	483
45 K	45,000	310	70,000	483
60 K	60,000	414	85,000	586
75 K	75,000	517	95,000	655

\*For Elongation and Reduction of Area, see API Spec 6A. The values specified for these requirements do not require conversion.

PART NUMBER	PAGE NUMBER	PART NUMBER	PAGE NUMBER	PART NUMBER	PAGE NUMBER
0188	B-198	3188	B-198	11743	B-40
015301	C-14	3788	B-199	11770	B-63
017M	B-6	3988	B-199	11771	B-76
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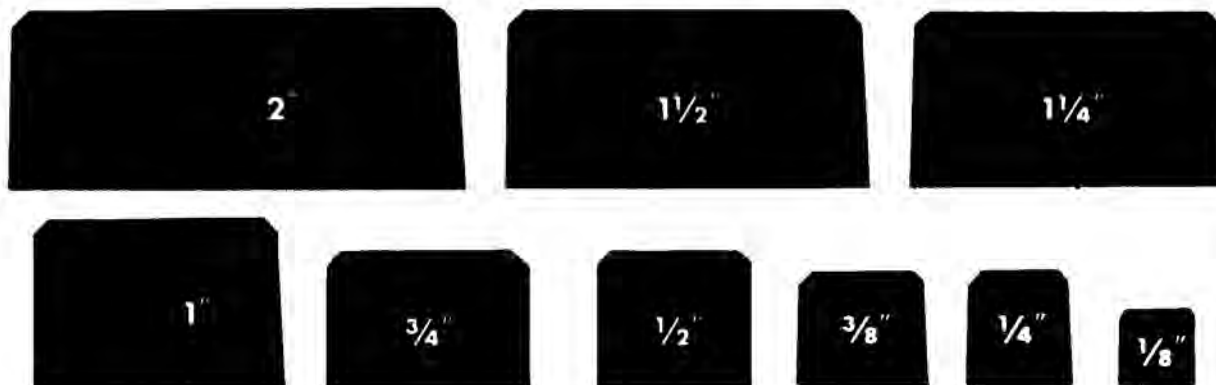
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## Male Pipe Thread Sizes



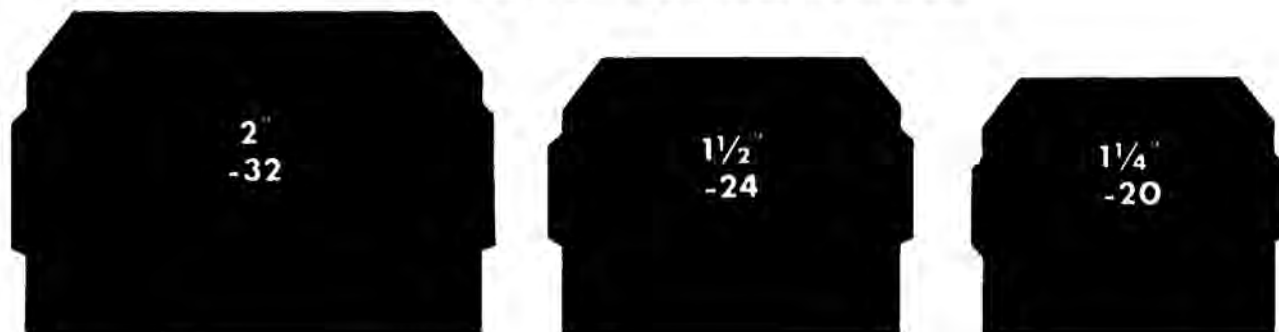
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## SAE (JIC) 37° Flare Nose Cone Sizes



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## SAE (JIC) 37° Flare Nose Cone Sizes



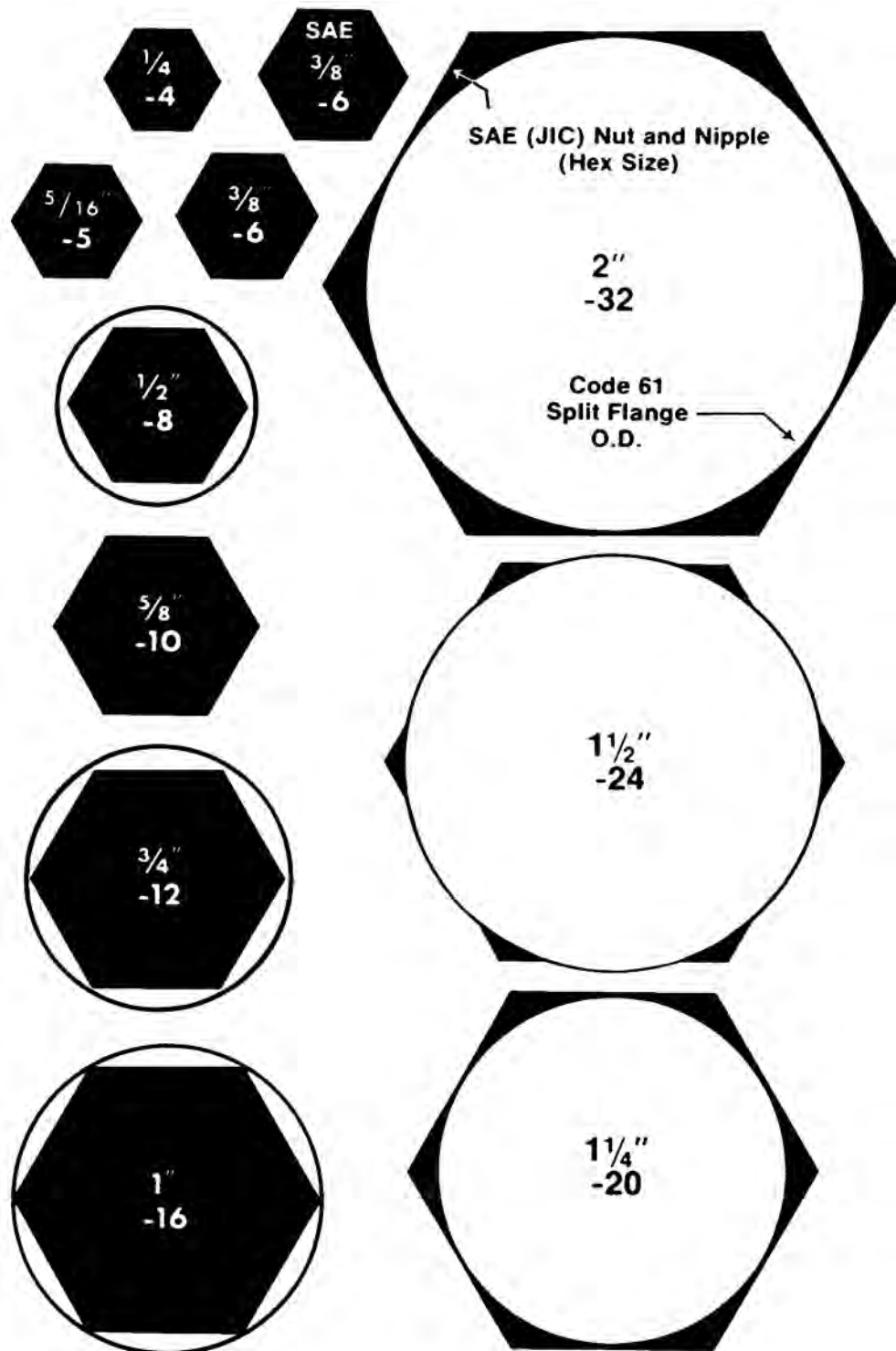
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37° and 45° Flare  
Nose Angles

SAE 45° Flare  
Nose Cone Sizes



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# Safety Guide

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

Parker Publication No. 4400-B.1

Revised: November, 2007

**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.

### 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", "couplings" or "adapters" 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. Parker publications are available at [www.parker.com](http://www.parker.com). SAE J1273 ([www.sae.org](http://www.sae.org)) and ISO 17165 2 ([www.ansi.org](http://www.ansi.org)) also provide recommended practices for hydraulic Hose Assemblies.

1.2 Fail-Safe: Hose, 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, Hose Assembly or Fitting will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person 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.

1.4 User Responsibility: Due to the wide variety of operating conditions and applications for Hose and Fittings, Parker does 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 Products.
- 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 Products 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 Products 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 Fittings 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 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 Fittings 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 Fittings for such use.

2.1.2 Electrically Conductive Hose: Parker manufactures 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 the requirements of ANSI/IAS NGV 4.2-1999; CSA 12.52-M99, "Hoses for Natural Gas Vehicles and Dispensing Systems" ([www.ansi.org](http://www.ansi.org)). 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 (82°C). Parker CNG Hose should not be used in confined spaces or unventilated areas or areas exceeding 180°F (82°C). Final assemblies must be tested for leaks. CNG Hose Assemblies should be tested on a monthly basis for conductivity per ANSI/IAS NGV 4.2-1999; CSA 12.52-M99.

Parker manufactures 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.



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**2.2 Pressure:** Hose selection must be made so that the published maximum working pressure of the Hose and Fittings are equal to or greater than the maximum system pressure. The maximum working pressure of a Hose Assembly is the lower of the respective published maximum working pressures of the Hose and the Fittings used. 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.

**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.

**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.

**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.

**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). For additional routing recommendations see SAE J1273 and ISO 17165-2. Hose Assemblies have a finite life and if possible, should be installed in a manner that allows for ease of inspection and future replacement. Rubber Hose because of its relative short life, should not be used in residential and commercial buildings for HVAC (heating, ventilating and air conditioning) applications.

**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.

**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 Fittings with quick disconnect ability can unintentionally disconnect if they are dragged over obstructions, or if the sleeve or other disconnect member, is bumped or moved enough to cause disconnect. Threaded Fittings 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



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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.

To prevent the possibility of problems such as leakage at the Fitting or system contamination, it is important to completely remove all debris from the cutting operation before installation of the Fittings. 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](http://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 Field Attachable/Permanent:** Do not reuse any field attachable 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.

**3.14 Ground Fault Equipment Protection Devices (GFEEDs):** WARNING! Fire and Shock Hazard: To minimize the danger of fire if the heating cable of a Multitube bundle is damaged or improperly installed, use a Ground Fault Equipment Protection Device. Electrical fault currents may be insufficient to trip a conventional circuit breaker.

For ground fault protection, the IEEE 515:1989 ([www.ansi.org](http://www.ansi.org)) standard for heating

cables recommends the use of GFEEDs with a nominal 30 milliampere trip level for "piping systems in classified areas, those areas requiring a high degree of maintenance, or which may be exposed to physical abuse or corrosive atmospheres".

## 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. Hose and Fittings may be subjected to internal mechanical and/or chemical wear from the conveying fluid and may fail without warning. The user must determine the product life under such circumstances by testing. Also see section 2.5.

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

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## Safety Guide & MSDS Statement

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 ANSI/IAS NGV 4.2-1999; CSA 12.52-M99 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.

### 5.0 HOSE STORAGE

5.1 Age Control: Hose and Hose Assemblies must be stored in a manner that facilitates age control and first-in and first-out usage based on manufacturing date of the Hose and Hose Assemblies. The shelf life of rubber Hose or Hose Assemblies that have passed visual inspection and a proof test is 10 years (40 quarters) from the date of manufacture. The shelf life of thermoplastic and polytetrafluoroethylene Hose or Hose Assemblies is considered to be unlimited.

5.2 Storage: Stored Hose and Hose Assemblies must not be subjected to damage that could reduce their expected service life and must be placed in a cool, dark and dry area with the ends capped. Stored Hose and Hose Assemblies must not be exposed to temperature extremes, ozone, oils, corrosive liquids or fumes, solvents, high humidity, rodents, insects, ultraviolet light, electromagnetic fields or radioactive materials.

### MSDS (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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## Offer of Sale

**The items described in this document and other documents or descriptions provided by Parker Hannifin Corporation, as subsidiaries and its authorized distributors are hereby offered for sale at prices to be established by Parker Hannifin Corporation, its subsidiaries and its authorized distributors. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any such item, when communicated to Parker Hannifin Corporation, its subsidiary or an authorized distributor ("Seller") verbally or in writing, shall constitute acceptance of this offer.**

1. **Terms and Conditions of Sale:** All descriptions, quotations, proposals, offers, acknowledgments, acceptances and sales of Seller's products are subject to and shall be governed exclusively by the terms and conditions stated herein. Buyer's acceptance of any offer to sell is limited to these terms and conditions. Any terms or conditions in addition to, or inconsistent with those stated herein, proposed by Buyer in any acceptance of an offer by Seller, are hereby objected to. No such additional, different or inconsistent terms and conditions shall become part of the contract between Buyer and Seller unless expressly accepted in writing by Seller. Seller's acceptance of any offer to purchase by Buyer is expressly conditional upon Buyer's assent to all the terms and conditions stated herein, including any terms in addition to, or inconsistent with those contained in Buyer's offer. Acceptance of Seller's products shall in all events constitute such assent.
2. **Payment:** Payment shall be made by Buyer net 30 days from the date of delivery of the items purchased hereunder. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.
3. **Delivery:** Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.
4. **Warranty:** Seller warrants that the items sold thereunder shall be free from defects in material or workmanship for a period of 365 days from the date of shipment to Buyer, or 2,000 hours of use, whichever expires first. THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED. NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.
5. **Limitation Of Remedy:** SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS CONTRACT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ITEMS SOLD OR REFUND OF THE PURCHASE PRICE PAID BY BUYER, AT SELLER'S SOLE OPTION. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ITEMS SOLD HEREUNDER, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY.
6. **Changes, Reschedules and Cancellations:** Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this Agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.
7. **Special Tooling:** A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by

Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. **Buyer's Property:** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.
9. **Taxes:** Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller of if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.
10. **Indemnity For Infringement of Intellectual Property Rights:** Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets (hereinafter "Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes in the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and options, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights. If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.
11. **Force Majeure:** Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's control.
12. **Entire Agreement/Governing Law:** The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.

# Parker's Motion & Control Product Groups

**At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374**



## **Aerospace**

### **Key Markets**

Aftermarket services  
Commercial transports  
Engines  
General & business aviation  
Helicopters  
Launch vehicles  
Military aircraft  
Missiles  
Power generation  
Regional transports  
Unmanned aerial vehicles

### **Key Products**

Control systems & actuation products  
Engine systems & components  
Fluid conveyance systems & components  
Fluid metering, delivery & atomization devices  
Fuel systems & components  
Fuel tank inerting systems  
Hydraulic systems & components  
Thermal management  
Wheels & brakes



## **Automation**

### **Key Markets**

Alternative energy  
Conveyor & material handling  
Factory automation  
Food & beverage  
Life sciences & medical  
Machine tools  
Packaging machinery  
Paper machinery  
Plastics machinery  
Primary metals  
Safety & security  
Semiconductor & electronics  
Transportation & automotive

### **Key Products**

AC/DC drives & systems  
Air preparation  
Electric actuators, gantry robots & slides  
Human machine interfaces  
Inverters  
Manifolds  
Miniature fluidics  
Pneumatic actuators & grippers  
Pneumatic valves & controls  
Rotary actuators  
Stepper motors, servo motors, drives & controls  
Structural extrusions  
Vacuum generators, cups & sensors



## **Climate & Industrial Controls**

### **Key Markets**

Agriculture  
Air conditioning  
Construction Machinery  
Food & beverage  
Industrial machinery  
Life sciences  
Oil & gas  
Precision cooling  
Process  
Refrigeration  
Transportation

### **Key Products**

Accumulators  
Advanced actuators  
CO<sub>2</sub> controls  
Electronic controllers  
Filter driers  
Hand shut-off valves  
Heat exchangers  
Hose & fittings  
Pressure regulating valves  
Refrigerant distributors  
Safety relief valves  
Smart pumps  
Solenoid valves  
Thermostatic expansion valves



## **Filtration**

### **Key Markets**

Aerospace  
Food & beverage  
Industrial plant & equipment  
Life sciences  
Marine  
Mobile equipment  
Oil & gas  
Power generation & renewable energy  
Process  
Transportation  
Water Purification

### **Key Products**

Analytical gas generators  
Compressed air filters & dryers  
Engine air, coolant, fuel & oil filtration systems  
Fluid condition monitoring systems  
Hydraulic & lubrication filters  
Hydrogen, nitrogen & zero air generators  
Instrumentation filters  
Membrane & fiber filters  
Microfiltration  
Sterile air filtration  
Water desalination & purification filters & systems



## **Fluid Connectors**

### **Key Markets**

Aerial lift  
Agriculture  
Bulk chemical handling  
Construction machinery  
Food & beverage  
Fuel & gas delivery  
Industrial machinery  
Life sciences  
Marine  
Mining  
Mobile  
Oil & gas  
Renewable energy  
Transportation

### **Key Products**

Check valves  
Connectors for low pressure fluid conveyance  
Deep sea umbilicals  
Diagnostic equipment  
Hose couplings  
Industrial hose  
Mooring systems & power cables  
PTFE hose & tubing  
Quick couplings  
Rubber & thermoplastic hose  
Tube fittings & adapters  
Tubing & plastic fittings



## **Hydraulics**

### **Key Markets**

Aerial lift  
Agriculture  
Alternative energy  
Construction machinery  
Forestry  
Industrial machinery  
Machine tools  
Marine  
Material handling  
Mining  
Oil & gas  
Power generation  
Refuse vehicles  
Renewable energy  
Truck hydraulics  
Turf equipment

### **Key Products**

Accumulators  
Cartridge valves  
Electrohydraulic actuators  
Human machine interfaces  
Hybrid drives  
Hydraulic cylinders  
Hydraulic motors & pumps  
Hydraulic systems  
Hydraulic valves & controls  
Hydrostatic steering  
Integrated hydraulic circuits  
Power take-offs  
Power units  
Rotary actuators  
Sensors



## **Instrumentation**

### **Key Markets**

Alternative fuels  
Biopharmaceuticals  
Chemical & refining  
Food & beverage  
Marine & shipbuilding  
Medical & dental  
Microelectronics  
Nuclear Power  
Offshore oil exploration  
Oil & gas  
Pharmaceuticals  
Power generation  
Pulp & paper  
Steel  
Water/wastewater

### **Key Products**

Analytical Instruments  
Analytical sample conditioning products & systems  
Chemical injection fittings & valves  
Fluoropolymer chemical delivery fittings, valves & pumps  
High purity gas delivery fittings, valves, regulators & digital flow controllers  
Industrial mass flow meters/controllers  
Process control double block & bleeds  
Process control fittings, valves, regulators & manifold valves  
Permanent no-weld tube fittings  
Precision industrial regulators & flow controllers



## **Seal**

### **Key Markets**

Aerospace  
Chemical processing  
Consumer  
Fluid power  
General industrial  
Information technology  
Life sciences  
Microelectronics  
Military  
Oil & gas  
Power generation  
Renewable energy  
Telecommunications  
Transportation

### **Key Products**

Dynamic seals  
Elastomeric o-rings  
Electro-medical instrument design & assembly  
EMI shielding  
Extruded & precision-cut, fabricated elastomeric seals  
High temperature metal seals  
Homogeneous & inserted elastomeric shapes  
Medical device fabrication & assembly  
Metal & plastic retained composite seals  
Shielded optical windows  
Silicone tubing & extrusions  
Thermal management  
Vibration dampening

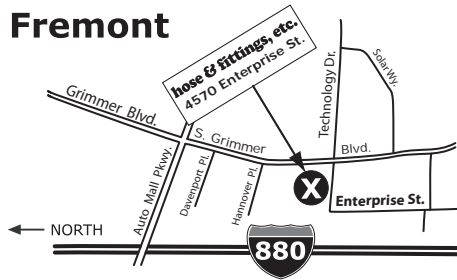


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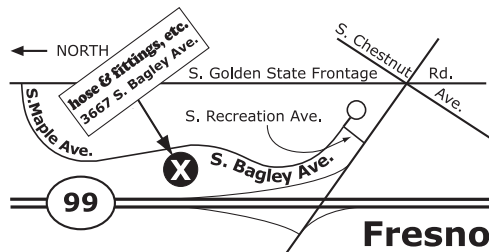
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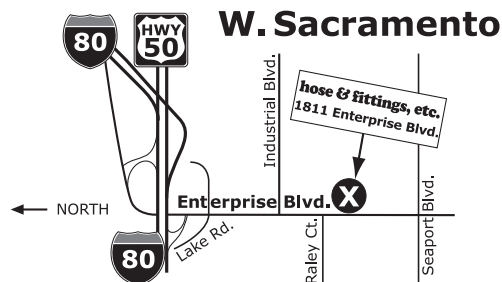
4570 Enterprise St.  
Fremont, CA 94538  
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Fresno, CA 93725  
Phone: 559.495.1220  
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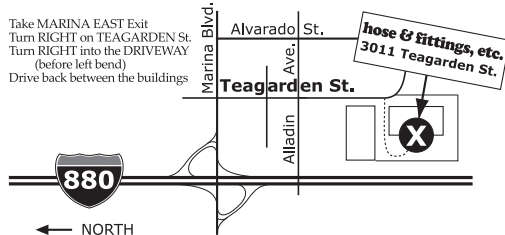


1811 Enterprise Blvd.  
West Sacramento, CA 95691  
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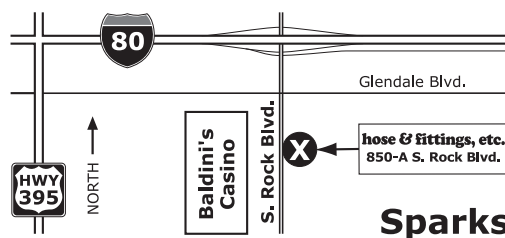


## San Leandro



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