



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



CAT 4660

Parflex® Thermoplastic & Fluoropolymer Products
Hose, Tubing, Fittings & Accessories, Jan. 2012



ENGINEERING YOUR SUCCESS.

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FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS
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This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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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 stated in the "Offer of Sale".

Welcome to The Parflex® Division



Our Charter

To be the global leader in engineered polymer-based products while providing system solutions for the conveyance and control of fluids.

As part of the Parker Fluid Connectors Group, the Parflex® Division is responsible for the design and manufacture of hoses and tubing to handle extreme applications. Products include thermoplastic and fluoropolymer hose and tubing, hose bundles, harnesses and accessories.

The Parflex® Division includes the Ravenna division headquarters in Ohio, and manufacturing facilities in:

- Manistowoc, WI
- Fort Worth, TX
- Randleman, NC
- Monterrey, Mexico



For detailed ordering information, please consult price list or contact Parflex® Division.


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Table of Contents

| | | | |
|----------------------------------------------------|-------------|-------------------------------------------|-------------|
| A Hose - Thermoplastic A-1 : A-64 | | Hose - Fluoropolymer A-65 : A-85 | |
| Parflex Thermoplastic _____ | A-4 : A-64 | Parflex PTFE _____ | A-65 : A-74 |
| | | PAGE PTFE _____ | A-75 : A-85 |
| B Tubing - Thermoplastic B-1 : B-41 | | Tubing - Fluoropolymer B-42 : B-85 | |
| Polyethylene _____ | B-8 : B-15 | PTFE _____ | B-50 : B-69 |
| Nylon _____ | B-16 : B-25 | FEP _____ | B-70 : B-77 |
| Polypropylene _____ | B-26 : B-33 | PFA _____ | B-78 : B-81 |
| Polyurethane _____ | B-34 : B-38 | PVDF _____ | B-82 : B-85 |
| Clear Vinyl _____ | B-39 : B-41 | | |
| C Coiled Air Hose & Fittings C-1 : C-21 | | | |
| Fast-Stor® Air Hose _____ | C-8 : C-9 | NoMar™ Fast-Stor® Fittings _____ | C-18 : C-19 |
| Fast-Stor® Fittings _____ | C-10 : C-13 | Ultra-Lite Superbraid _____ | C-20 : C-21 |
| NoMar™ Fast-Stor® Assemblies _____ | C-14 : C-17 | | |
| D Transportation (Fleet) D-1 : D-15 | | | |
| Air Brake Tubing _____ | D-4 : D-5 | Slider Coil™ _____ | D-11 : D-11 |
| Diesel Fuel Tubing (PTFE-FL) _____ | D-6 : D-6 | Fifth Wheel Slider Coil _____ | D-12 : D-12 |
| Diesel Fuel Tubing (HTFL High Temperature) _____ | D-7 : D-7 | Custom Harnesses, Bundles & Tubing _____ | D-13 : D-13 |
| BRAKCOIL® _____ | D-8 : D-8 | SCR Hose _____ | D-14 : D-15 |
| Duo-Coil® _____ | D-9 : D-9 | | |
| E Fittings E-1 : E-105 | | | |
| Hose Fittings _____ | E-1 : E105 | | |
| F Tooling F-1 : F-26 | | | |
| Crimpers _____ | F-6 : F-13 | Sewer Hose Swagers & Accessories _____ | F-17 : F-17 |
| Pumps _____ | F-14 : F-15 | Hose Accessories _____ | F-18 : F-26 |
| Conversion Kits _____ | F-16 : F-16 | | |
| G General Technical G-1 : G-66 | | | |
| Hose Selection, Installation & Mtn. _____ | G-3 : G-9 | Die Selection & Crimping Chart _____ | G-41 : G-41 |
| Hose Assembly & Crimping _____ | G-10 : G-29 | Technical Data _____ | G-42 : G-58 |
| Die Selection & Crimping Chart _____ | G-30 : G-40 | | |
| Safety Guide _____ | G-60 | | |
| Offer of Sale _____ | G-65 | | |
| Part Number Index _____ | i | | |
| Keyword Index _____ | v | | |

Partner with Parflex®

We customize our extreme hose and tubing solutions every day to meet your needs.



Parker Parflex offers an extensive selection of high-quality thermoplastic and fluoropolymer hose and tubing, fittings and accessory solutions.

We specialize in designing products to meet specific needs for increased profitability and efficiency. We customize our products every day to meet your needs.

The Parflex® Advantage

One stop shopping for high value conveyance solutions.

Thermoplastic and Fluoropolymer Hose, Tubing, Fittings and Accessories for extreme applications.

Hose

When compared to wire reinforced rubber hose or even metal tubing, thermoplastic hose offers a significant added value. Thermoplastic provides extreme chemical compatibility, noise-level reduction and ultraviolet and corrosion resistance, while fiber reinforcement retains flexibility — even at low temperatures. In addition, Parflex has long-length capabilities resulting in less scrap being generated during assembly....fewer connections, results in fewer potential leak points.

For fluoropolymer hose, Parflex has expanded its PTFE Hose line to include the PAGE product line, manufactured in Fort Worth, TX. PAGE products are comprised of fluoropolymer hoses with specialty braid and construction options. These hoses are designed to handle high temperatures in chemical and corrosive environments for the pharmaceutical and food and beverage markets. Specialty products like PAGE-flex SBF™ (a hose with 1/2 the minimum bend radius of a conventional smooth bore hose) and EPDM rubber covered hoses are now available. We also design a full range of Parflex and PAGE hose fittings.

And that's just the beginning...

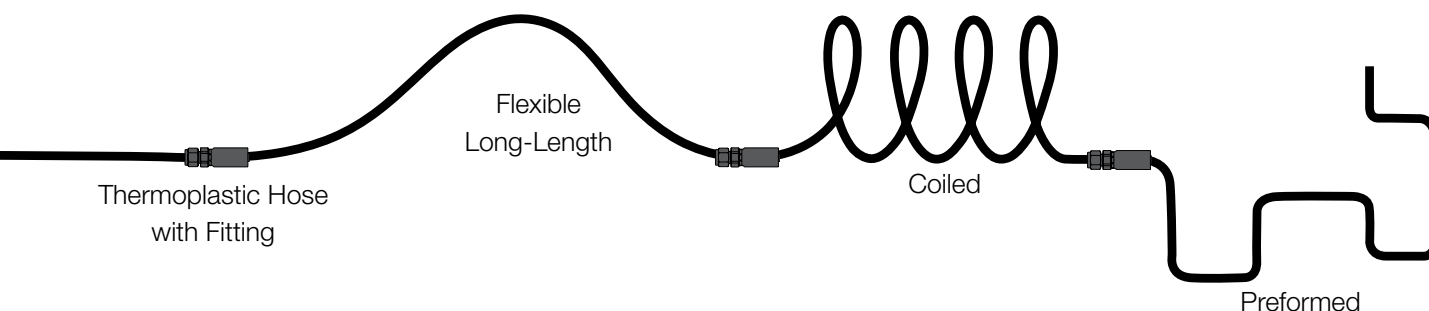
Tubing

Parflex has also expanded the tubing line to include PTFE, FEP, PFA and PVDF tubing. All are available in a smoothbore design and others are available in beading, heat shrinkable tubing and convoluted tubing. This tubing operates in high temperatures (up to 500°F/260°C) and in cryogenic applications with temperatures as low as -100°F/-75°C. Extrusions are resistant to UV radiation and moisture and offer the lowest coefficient of friction of any material available.

Additionally, ALL Parflex tubing products are made from resins and colors that are certified to be free of mercury, heavy metals and other materials that are restricted in accordance with the RoHS directive.

Unique Preforming Capabilities

Parflex preforming combines the precision of steel tubing with the flexibility of a hose. Preformed products profile complex shapes and long lengths, offering a working



rigidity that ensures that the hose stays true to your lines and a superior flexibility to allow for unparalleled alignment compensation.

In addition to installation ease, Parker preformed products increase productivity thanks to dramatic reductions in weight, leak paths and the number of components. They also are highly cost effective for the manufacturer. With excellent shape retention, Parker products can be easily coiled and packed in standard boxes, saving on shipping costs and inventory space.

Thermoplastic vs. Rubber Hose Weight*

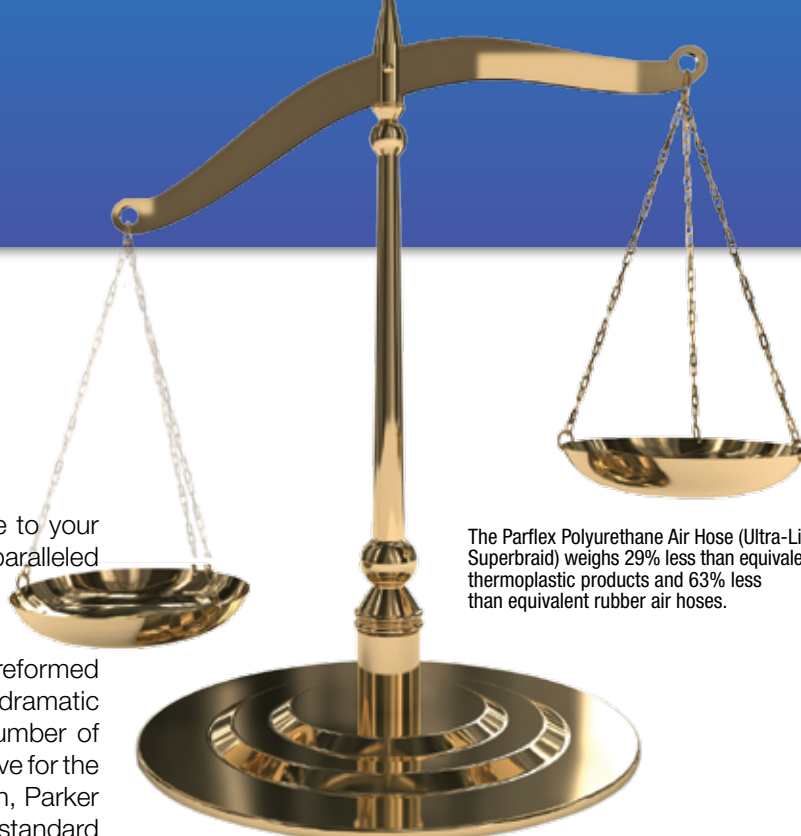
| Size | Typical 100R7 Hose (Thermoplastic) | Typical 100R1 Hose (Rubber) |
|------|------------------------------------|-----------------------------|
| -4 | 0.052 | 0.170 |
| -6 | 0.096 | 0.250 |
| -8 | 0.148 | 0.300 |
| -12 | 0.188 | 0.460 |
| -16 | 0.269 | 0.660 |

*Weight: pounds/foot

Thermoplastic vs. Rubber Hose O.D.*

| Size | Typical 100R7 Hose (Thermoplastic) | Typical 100R1 Hose (Rubber) |
|------|------------------------------------|-----------------------------|
| -4 | 0.47 | 0.53 |
| -6 | 0.63 | 0.69 |
| -8 | 0.81 | 0.81 |
| -12 | 1.08 | 1.09 |
| -16 | 1.32 | 1.41 |

*Outside Diameter: inches



The Parflex Polyurethane Air Hose (Ultra-Lite Superbraid) weighs 29% less than equivalent thermoplastic products and 63% less than equivalent rubber air hoses.

Extremely Lightweight

Compared to rubber equivalents, Parflex products are lighter in weight due to their fiber reinforcements. In fact, a Parflex hose can weigh more than 70% less than a comparable rubber hose assembly. As a result of this greater strength-to-weight ratio, thermoplastics are easier to work with. Operator handling becomes less fatiguing and it is quicker and easier to route hoses onto equipment.

Economical Small Bore

Prior to thermoplastics, system designers had to use hoses that were oversized for certain applications. More economical, small-bore rubber hose was simply not available in sizes smaller than 1/4" for applications with flows less than 3 gallons per minute. The use of oversized hoses resulted in substantial waste in systems; costing more, reducing response times and increasing installation times.

Today, system designers have a wealth of options to the 1/4" rubber hose. In fact, thermoplastic hose manufacturers have established full lines of hose for every application. With sizes that include 1/4", 3/16", 1/8", and 3/32", Parflex compact designs allow tighter bend radius characteristics, work well in smaller enveloped areas and give excellent fluid compatibility and higher abrasion resistance.

Superior Abrasion and Fatigue Resistant

Thermoplastic products are known for having superior abrasion resistance over their rubber equivalents. Providing significantly longer wear, they offer as much as 100 to 30,000 times the abrasion resistance. Fiber braided thermoplastic hose also maintains better fatigue resistance than a wire-reinforced hose.

Parflex offers a choice of wire or fiber braid reinforced hose products. All hoses are specially designed to withstand abrasion and the abuse of constant flexing, assuring a longer service life without breaking or weakening. This makes them ideal for over-the-sheave applications and boom trucks, as well as an excellent option for abrasive environments like construction, forestry, mining and refuse.

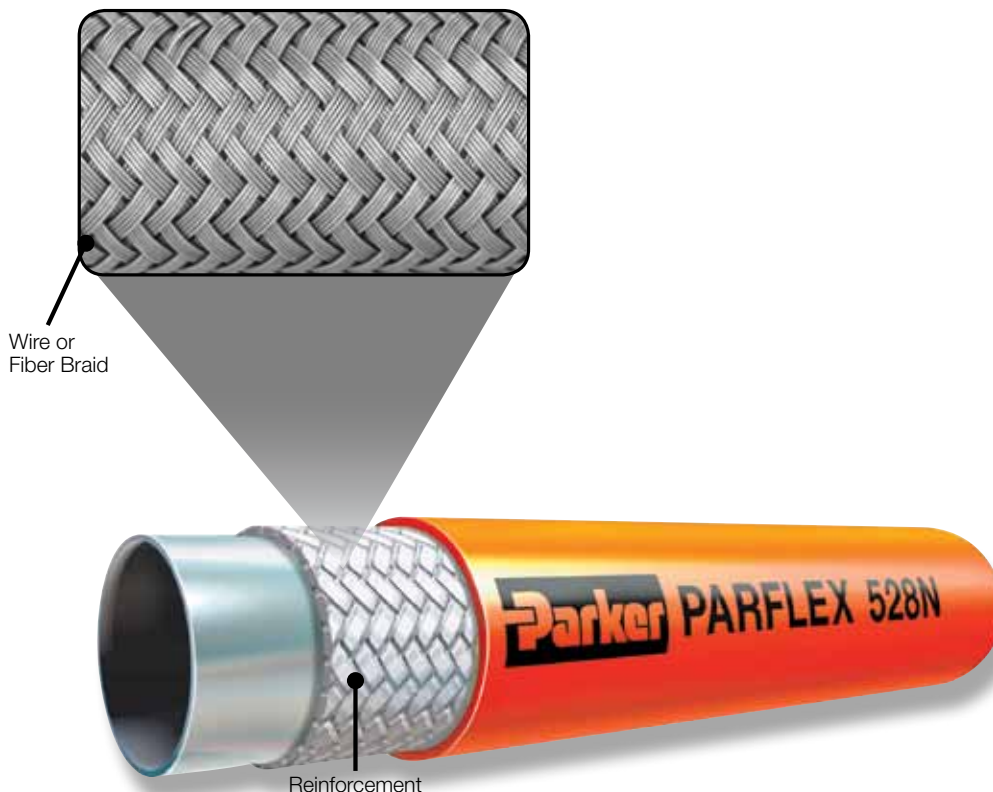
Bonded Hose

Bonded assemblies help prevent hose-to-hose abrasion at high stress levels. By bonding 2 to 10 varying-sized hoses (maximum 10" O.D.) together, bonded assemblies keep hoses from rubbing

against each other or tangling. They are particularly beneficial for long runs, such as cable tracks. Parflex hose bonding keeps hoses straight for easier and more stable routing while improving quality by maintaining continuous hoses from end to end.

Convenient Harness and Bundle Integration

Similar to bonding, Parflex harnesses and bundles ensure quick assembly, eliminate waste and improve throughput. Custom engineered to meet the exact requirements of each manufacturer, Parflex harnesses reduce labor by supplying a pre-designed bundle of tubes to fit a customer's specific application. With all the connections secured together, the preformed harness decreases overall installation time, waste and human error, while improving part consistency for a neater and cleaner design. Companies can then re-allocate excess resources to bottleneck areas – increasing their overall throughput.





Cleanliness and Safety

Parflex products are designed with safety and cleanliness in mind. The erosion resistant core maintains long-term system cleanliness with mandrel free construction to ensure zero lubricant contamination. And with fiber reinforced Parflex thermoplastic hose, there's little to no contamination due to cutting because they do not require a hose saw.

While cleanliness is inherent in thermoplastic core tubes, some Parflex hoses also maintain non-conductivity, keeping the operator safe from electric shock. Most hoses feature a UV and ozone resistant jacket, which resists cracking and UV damage, thus extending the service life of the hose.

Parflex has developed specific products that focus on safety. The new, 944B/955B high pressure PTFE hoses handle pressures up to 5,500 psi and are available with fire sleeves to facilitate safer operator handling.

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Environmental Concerns

In addition to being innovative and safe, Parflex is committed to being environmentally conscious as a company and global manufacturer and continues to develop environmental solutions for emerging markets such as compressed natural gas (CNG), oil and gas and wind power.

Within the CNG market, Parflex has designed a special CNG hose and bonded assemblies for use with CNG dispensers, transfer applications and transportation refill trailers. New fluoropolymer hoses have also been designed to target the oil and gas market. Finally, Parflex engineers have assembled comprehensive hydraulic and lubrication systems for the wind power sector. These systems include preformed, twinline, HLB lubrication hoses and hose bundles.

Existing markets will continue to change and new markets will emerge. And as they do, Parflex Engineers will be there to help you develop solutions for the new challenges and obstacles that arise. Parflex offers complete engineering support, including custom design solutions, on-site prototyping, pre-production fit-up and print creation.

Environmental Sustainability

Parflex is committed to managing our business, products and manufacturing activities in an environmentally conscious and sustainable method.

Parflex manufacturing locations are either ISO 14001 certified or ISO 14001 ready. The ISO 14001 Environmental Management System (EMS), developed by the International Standards Organization (ISO), provides a framework for companies to minimize the environmental impact of their operations, ensure compliance with applicable laws and regulations and to ensure continual improvement.

Utilizing the ISO 14001 system, Parflex has made significant progress towards reducing its carbon foot print through; reduced energy consumption, increased recycling activities and the reduction of raw material consumption through innovative product design, material selection and manufacturing technologies.

Parflex ensures consistent quality and faster implementation
– all to save you time and money.



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Thermoplastic Hose Construction

1. Core

Contains Media

Materials: Nylon, Polyethylene, Polyurethane, Co-Polyester

2. Reinforcement

Provides Resistance to Internal Pressure

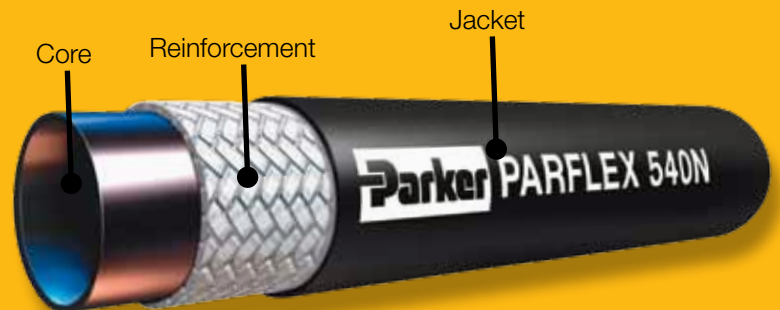
Materials: Fiber (Nylon, Polyester, Aramid), Steel, Stainless Steel

3. Jacket

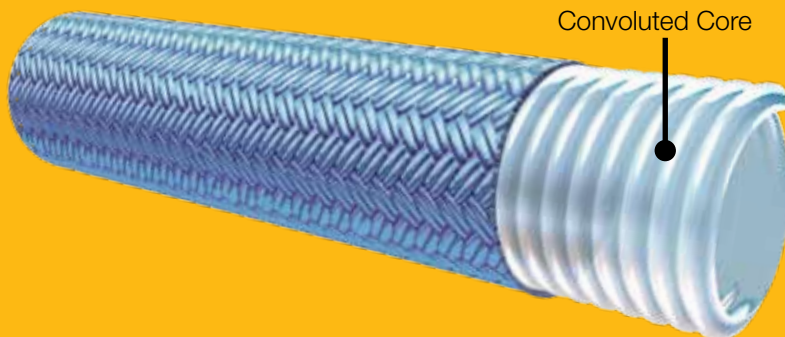
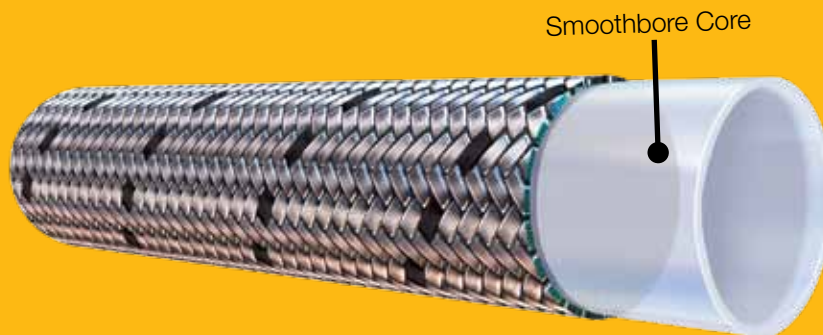
Protects Reinforcement

Advantages: Aesthetics, Color and Marking

Materials: Polyurethane, Nylon, Synthetic Rubber, Co-Polyester, Polyurethane, Proprietary Blend (PFX)



Fluoropolymer Hose Construction



1. Core

Contains Media

Materials: PTFE Smoothbore or Convoluted, PFA

2. Reinforcement

Provides Resistance to Internal Pressure

Materials: Steel, Stainless Steel, Polypropylene, Nomex®, Proprietary Composite

3. Jacket or Protective Sleeve

Protects Reinforcement

Materials: Silicone, Polyolefin, EPDM Rubber

Nomex® is a registered trademark of Dupont.

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How to Use This Catalog

Table of Contents

For quick, easy listing of topics covered by section, reference the Table of Contents on pg. 1.

Information by Part Number

See the Part Number Index in Section G pgs. i : iv.

Information by Type of Part

Reference the Table of Contents on pg. 1, or check the Section Table of Contents/Visual Index found on the first page of each section in the catalog.

Information by Fitting End Configuration







See Standard Fitting Configurations by Connection and End Code in Section E, pg. 4. This list identifies the cataloged fittings by a description of the end configuration and the fitting end code.








The Parker Part Numbering System

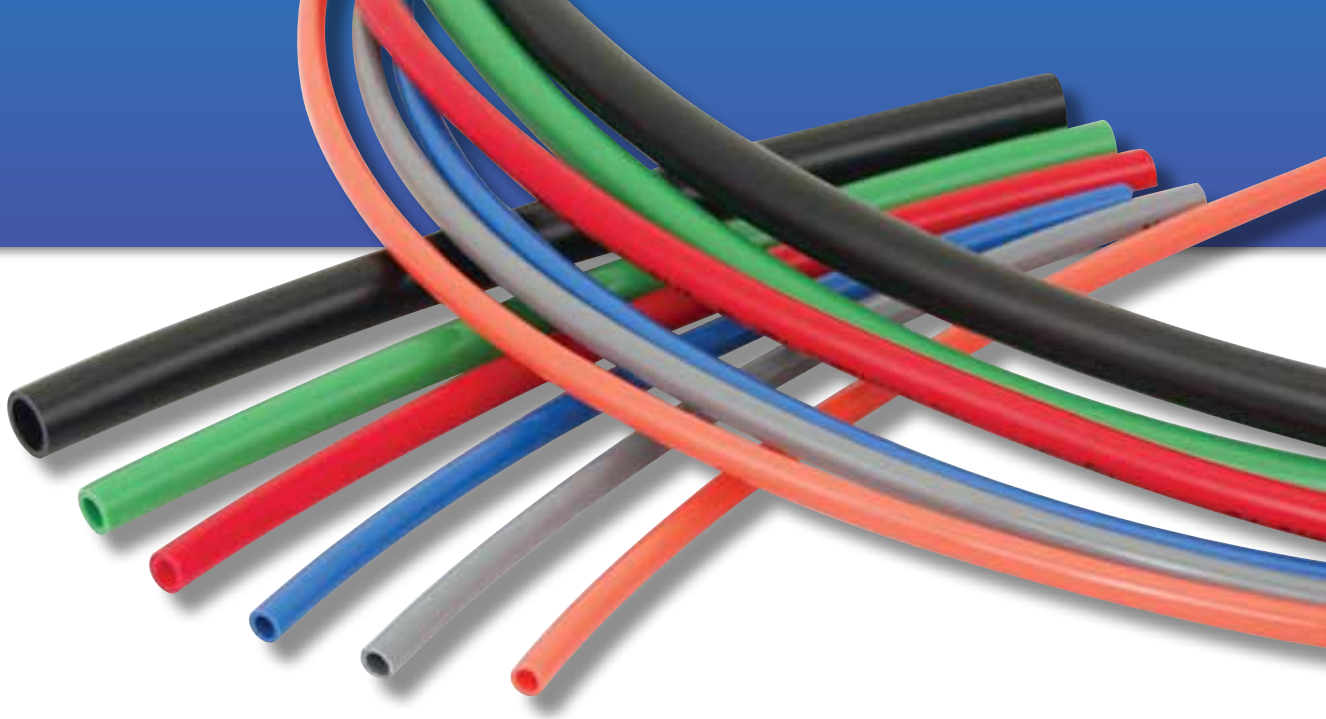
The part numbering system for hose, fittings and tubing is explained on pgs. 12 & 13. Specific nomenclature sheets are located in the Hose Section on pgs. A-18 : A-21. In the Tubing Section, part number information is included on each product page.

International Symbols

An explanation of the symbols and their meaning used in the product tables can be found below.

| Symbol | Meaning |
|-------------------------------------------------------------------------------------|----------------------------|
| # | Part Number |
|  | Hose Inner Diameter (I.D.) |
|  | Hose Outer Diameter (O.D.) |
|  | Working Pressure |
|  | Minimum Bend Radius |
|  | Crimp Die |
|  | Crimp Fitting |

| Symbol | Meaning |
|-------------------------------------------------------------------------------------|--------------------------|
|  | Minimum Burst Pressure |
|  | Weight |
|  | Vacuum Rating |
|  | Thread Size |
|  | Hex Size |
|  | Diameter |
|  | Field Attachable Fitting |



Icon Identification Key



Transportation



Mobile
Hydraulics



Industrial
Pneumatic



Industrial
Hydraulics



Fluid
Handling



Life
Science



Food &
Beverage

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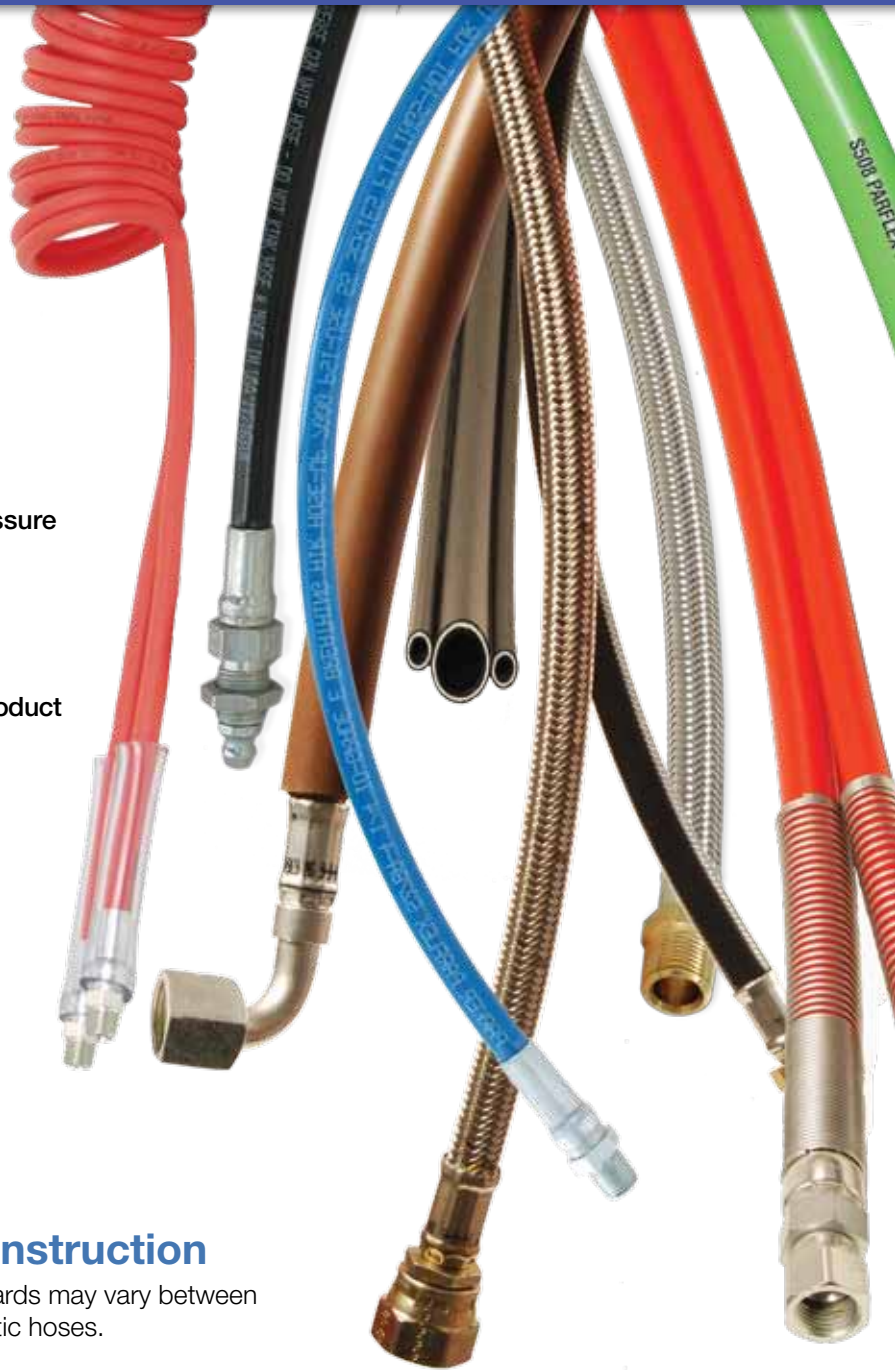
Selecting the Right Hose

Choosing Your Hose

Before selecting hoses from Catalog 4660, it will be easier if you familiarize yourself with the basics of thermoplastic and fluoropolymer hoses. If you review the symbols on pg. 8 and the "How to Build A Hose Assembly" on pages 12 & 13 you will have a foundation for selecting your hose. Also, the Parflex Hose Selections Charts (located in Section A) will help pinpoint the hose you require. It will help you identify individual hoses by:

- Brief general description
- Specific size with corresponding working pressure
- Industry specification (ie. SAE)
- Core tube material
- Reinforcement/type of construction
- Cover material
- Specific page number where further detailed product information can be found

For fittings, refer to the visual indexes in Section E.



General Construction

Construction standards may vary between specific thermoplastic hoses.

Parflex bonds hose layers to provide maximum kink resistance and flexibility through a wide range of applications. Specific braid materials, wire reinforcements, spiral reinforcements and distinguishing features are clearly called out with each hose product. Perforated and non-perforated hoses are available based on application.

WITH NOTED EXCEPTIONS, Parflex hoses are engineered and manufactured to a 4:1 burst pressure to working pressure ratio that follows SAE design standards. Never operate a hose beyond its published working pressure. [Working Pressure x 4 = Minimum Burst]



Hose, Fittings & Tubing Part Numbers

To make ordering of Parflex products easier, a part number description section has been added for hose, tubing and fitting products. For additional nomenclature information, refer to the following pages:

- Hose - Section Apgs. A-1 : A-86
- Tubing - Section BSee specific product page
- Fittings - Section Epgs. E-1 : E-108

Hose Part Numbers

Parflex has expanded the Hose section to include the PAGE Fluoropolymer product line. The PAGE product line is comprised of fluoropolymer hoses with specialty braid and construction options.

Thermoplastic & Fluoropolymer

Example: 520N – 8

520N – 8 – **Hose type** (General Hydraulic Hose)

520N – **8** – **Hose inside diameter** dash size (1/2")

Parflex PAGE Fluoropolymer

Example: 16-SCW

16-SCW – **Hose inside diameter** dash size (1")

16-**SCW** – **Hose type** (Seamless Convuluted with Stainless Steel Braid)

Hose Assembly Part Numbers

Example: F540N0639080808C-30"

This assembly example reflects a 1/2" I.D., 540N hose with a female JIC 37° swivel straight fitting on the first end and a female JIC 37° - swivel - 90° elbow fitting on the other. The fittings are stainless steel and crimped (permanently attached) onto the hose. The overall length is 30".

1. Prefix

F540N0639080808C-30"

F = Crimp
R = Field Attachable
A = 54 Series Factory

3. Fitting 1st End

F540N**06**39080808C-30"

SAE 1/2" female JIC 37°
swivel straight fitting

5. Size 1st End

F540N0639**08**0808C-30"

1/2"

7. Hose End Dash Size

F540N06390808**08**C-30"

1/2"

2. Hose type

F**540N**0639080808C-30"

General Hydraulic Hose

4. Fitting 2nd End

F540N06**39**080808C-30"

SAE 1/2" 90° female JIC 37°
swivel elbow fitting

6. Size 2nd End

F540N063908**08**08C-30"

1/2"

8. Fitting Material

F540N0639080808**C**-30"

- Blank = Steel (unless noted)
- C = Stainless
- B = Brass

9. Length

F540N0639080808C-**30"**

30" overall length

A complete nomenclature guide for Parflex PAGE hoses is located in Section A on pg. A-21.



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Hose Fittings Part Numbers

Parflex has expanded the Fitting Section to include several new series of part numbers. New series include CY Series, SF Series, 54 Series Rapid Assembly and PAGE fittings, designed to use with traditional PAGE hoses. PAGE fittings are not designed for use on the Parflex fluoropolymer hoses 919, 929, 939, 943B, 944B, 950B or 955B hoses.

Example: 10355-8-6

This example describes a permanent crimp 1/2" Male JIC 37° Rigid hose end with a 3/8" hose end. This fitting is constructed of steel since the designated material is blank.

10355-8-6 – **Fitting Type** (1 = Permanent/Crimp)

10355-8-6 – **End Configuration Code**
(Male JIC 37° Rigid)

10355-8-6 – **Fitting Series** (Series 55)

10355-8-6 – **End Size** (1/2")

10355-8-6 – **Hose Size** (3/8")

Fitting Material

- Blank = Steel (unless otherwise noted)
- B = All Brass
- C = Stainless Steel
- S = All Carbon Steel – Used only with PTFE Fittings

Tubing Part Numbers

Parflex has expanded the Tubing Section to include the TexLoc Fluoropolymer product line. In addition to smooth bore tubing, TexLoc products include beading, convoluted tubing and heat shrinkable tubing. This tubing is supplied in natural and colors are available upon request. For a detailed fluoropolymer nomenclature guide, review Section B, pgs. B-46 : B-47.

Thermoplastic

Example: U-21-BLU-0250

U-21-BLU-0250 – **Polyurethane**

U-21-BLU-0250 – **Tube O.D.**

in sixteenths of an inch (1/8")

U-21-BLU-0250 – **Tube I.D.**

in sixteenths of an inch (1/16")

U-21-BLU-0250 – **Color** (Blue)

U-21-BLU-0250 – **Package quantity** (250')

Available colors

- | | |
|------------------|------------------------------|
| ● BLK = Black | ● ORG = Orange |
| ● BLU = Blue | ● RED = Red |
| ● GRY = Gray | ● YEL = Yellow |
| ● GRN = Green | (colors may vary by product) |
| ● None = Natural | |

Fluoropolymer

Example: 101-0250062-NT-0100

101-0250062-NT-0100 – **PTFE**

101-0250062-NT-0100 – **Tube O.D.**

inch displayed in decimals (1/4")

101-0250062-NT-0100 – **Wall Thickness**

inch displayed in decimals (.062")

101-0250062-NT-0100 – **Color** (Natural)

101-0250062-NT-0100 – **Bulk Tubing**

101-0250062-NT-0100 – **Package quantity** (100')

Available colors

- | | |
|---------------|--------------|
| ● N = Natural | ● 5 = Green |
| ● 0 = Black | ● 3 = Orange |
| ● 6 = Blue | ● 2 = Red |
| ● 1 = Brown | ● 4 = Yellow |
| ● 8 = Gray | ● 9 = White |

Why Use Thermoplastic Tubing?

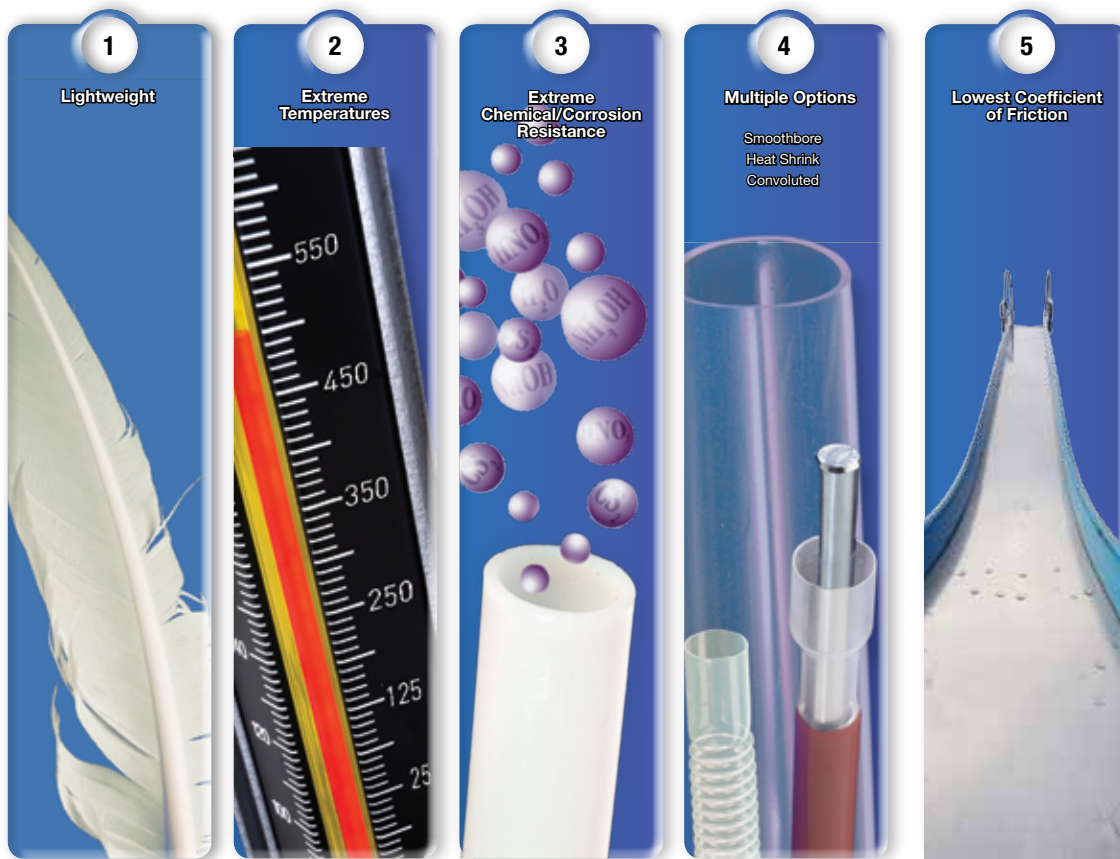


Benefits of Thermoplastic Tubing Materials and Applications*

| | | |
|---------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Nylon | Strength Chemical Compatibility | Instrumentation Food & Beverage |
| Polyethylene | Food/Water Contact Cost | Potable Water Chemical Transfer |
| Polyurethane | Flexibility | Pneumatics |
| Polypropylene | Food Contact Chemical Transfer Chlorinated Water | Robotics Machine Tools Lubrication |
| Vinyl | Cost Flexibility Food Contact Clarity | Pest Control Lines Semiconductor Marine Applications Weld Spatter/Spark Environments |

*Certain materials perform better in particular applications. Contact Customer Service for details.

Why Use Fluoropolymer Tubing?



Benefits of Fluoropolymer Tubing Materials and Applications*

| | | |
|------|----------------------------------------------------------------------------------|--------------------------------------------------|
| All | Self extinguishing Nonwetting FDA & USP Class VI compliant | Pharmaceutical Solar Panels Pulp & Paper |
| PTFE | Operates up to 500°F Lowest coefficient of friction | Food Processing Environmental Sampling |
| FEP | Operates up to 400°F Long, continuous lengths | Chemical Delivery Chromatography |
| PFA | Operates up to 500°F Long, continuous lengths High purity resins available | Paint Equipment Instrumentation |
| PVDF | Operates up to 265°F Food Contact Chemical Transfer Chlorinated Water | Heat Exchanger Ink Rollers Medical Devices |

*Certain materials perform better in particular applications. Contact Customer Service for details.

For detailed ordering information, please consult price list or contact Parflex® Division.

Mobile Hydraulics



Parflex Mobile Hydraulic products meet the needs of four primary market segments: aerial lift, agriculture, construction and material handling. Why are Parflex products so popular? Namely, cleanliness, high-impulse hybrid hoses, low volumetric expansion, lightweight and long-length manufacturing, as well as, ease of service and preformed capabilities.

Within the aerial lift market, Parflex products range from the eXtreme™ Duty hose to twin and multi-bonded hoses to preformed products and crimping. For the agriculture market,

Parflex products are used for oil return lines on tractors, polyethylene transfer tubes for sprayer application and grease lines on harvesters. In the construction market, Parflex products help save you money by replacing single-line rubber hoses with non-abrasive, lighter weight bonded thermoplastics on equipment. Finally, in material handling, Parflex products answer over-the-sheave and cold/refrigerated challenges.

Applications

- General Hydraulics
 - Off-Road Construction
 - Earth Moving Equipment
 - Lift Trucks
 - Material Handling
 - Construction Equipment
 - Refuse Haulers
 - Agricultural Equipment
- Lubrication lines
- Over-the-sheave applications
- Power steering
- Compressor discharge
- General hydraulics
- Hydraulic & pneumatic systems
- Commercial refrigeration
- Cold storage
- Testing labs
- Material handling
- Conveyor equipment
- Mower attachments
- Implement hydraulic power
- Diagnostics/Gaging
- PTO's
- Aerial Lift Hydraulic Tools
- Pilot Control Lines
- Turbo Drain Lines



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Markets

- Material Handling Equipment
- Marine
- Agricultural Equipment
- Utility Equipment
- Sewer Cleaning Equipment
- Aerial Lift
- Construction Equipment
- Rough Terrain Equipment
- Refuse Haulers
- Mining



For detailed ordering information, please consult price list or contact Parflex® Division.

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Fluid Handling



Parflex Fluid Handling products are categorized by their thermoplastic and fluoropolymer (PTFE) makeup. Thermoplastic products service lubrication, carpet (power) cleaning, sewer cleaning, breathing air, media transfer, and refrigeration markets while Fluoropolymer (PTFE) products meet a wide array of needs as a result of PTFE's unique material benefits.

Fluoropolymer (PTFE) products – which include smooth bore & convoluted hose, as well as steel, stainless steel, and brass fittings – service automotive, oil & gas, power generation, packaging/chemical transfer, and pulp & paper markets and applications. All of these markets and applications greatly benefit from PTFE's chemical resistance, extreme temperature range, low friction, non-stick and flexibility. They also take advantage of PTFE's

unlimited shelf life, high purity and natural FDA-compliant and black static dissipative core tube.

The Parflex PAGE fluoropolymer hose line extends the PTFE hose selection even further with convoluted hose assemblies, PTFE encapsulated fittings and PTFE flare-thru fittings for the pharmaceutical and food and beverage market.

Applications

- Car care
- Semi-conductor (Pure air or gas transfer)
- Pharmaceutical dispensing
- Lubrication systems
 - Forklift
 - Machine tool
 - Heavy equipment
- Breathing air systems
- Chemical dispensing
- Sewer cleaning
- Alternative Fuels
- Potable water delivery
- Carpet (Power) cleaning
- Coolant lines
- Agricultural spraying
- Oil & Gas transfer (Petrochemical)
- Food and Beverage
- Chemical and Gas Transfer



Markets

- Industrial Equipment
- Utilities (CNG)
- Semiconductor
- Chemical
- Commercial Refrigeration
- Water Treatment
- Power Cleaning
- Power Generation
- Car Care
- Pharmaceutical
- Bio-Pharmaceutical
- Pulp & Paper
- Oil & Gas



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Industrial Pneumatics



Parflex Industrial Pneumatics provide high-quality air tool, robotic and coiled thermoplastic solutions. A diverse product line includes lightweight, non-marring, flexible hose and thermoplastic or fluoropolymer tubing.

Ideal for construction, carpentry, automotive and aerospace industries, Parflex air hose assemblies are a smart investment over rubber counterparts. Parflex hoses are lighter weight, feature a no-mar, easy-clean outer cover and can be coiled or uncoiled down to -40°F without memory effect. All of which helps to improve worker safety, reduce property damage, lessen equipment repair/replacement, and, most importantly, increase productivity.

Parflex additionally offers products specifically designed for robotic applications, such as low-pressure 83FR hose and HUFR tubing. Tubing and hose bundling products for general robotics reduce installation time and promote longer life. For coiled thermoplastic solutions, look no further than Parflex tough, abrasion and kink-resistant coiled hoses.

The Parflex coiled selection includes Fast-Stor® coils and Ultra-Lite Superbraid, designed for markets like transportation, manufacturing and robotics.



Applications

- Air tools
- Robotic welding
- End-of-arm tooling
- Metal working
- Automotive maintenance
- General robotics

Markets

- Robotics
- Packaging Machinery
- Machine Tool
- Construction
- Automotive Maintenance
- Medical Equipment
- Laboratory Equipment
- Furniture Manufacturing
- Aerospace



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Industrial Hydraulics



Parflex Industrial Hydraulics develops thermoplastic hose and fitting products – from fiber, wire and Aramid fiber reinforced products to steel, stainless steel, and brass fittings to equipment & accessories – for today's fastest growing markets.

Parflex provides the power generation market with hose, tubing and bundles for turbine control valves, fuel systems and steam monitoring and thermoplastic hose and bonded hose assemblies for car & truck wash applications. In addition, Parflex manufactures hose reels for service

garages, auto and truck dealers, construction service shops and farm equipment service centers.

Parflex also provides hydraulic product equipment, such as MiniKrimp™ machines, to rental yards and forklift service companies. Ideal for field repairs, the lightweight, economical MiniKrimp™ hand pump and air/hydraulic models can crimp a majority of Parker thermoplastic, rubber, hybrid and PTFE hoses up to 3/4" I.D.

Applications

- Injection molding
- Patient handling
- Car care
- Lubrication systems
- Molding and transfer lines for plastics
- Hydraulic or vacuum connections
- General hydraulic lines
- Metal cutting
- Metal forming
- Vertical machining centers
- Hand brakes
- Press brakes
- Bending machines
- Automotive maintenance
- Rescue tools

Markets

- Machine Tools
- Hydraulic Tools
- Power Generation
- Mining Equipment
- Patient Handling
- Car Care
- Automotive
- Rescue Tools
- Lubrication Systems
- Recreational Vehicles



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Transportation



Parflex Transportation products have been specifically designed to meet the needs of trucks, specialty trucks (such as military, fire and terminal), buses and RVs, engines, and trailers.

An extensive line of transportation products includes a selection of air brake tubing for standard distribution and large OEMs, air brake harnesses, coils, fuel tubing and 100% pressure-tested fleet tubing for use with diesel fuel.

Steering lines on transit buses run from the back engine all the way to the front steering gear, which can require up to 40 feet of stainless steel tubing. Parflex offers a more manageable solution:

the eXtreme™ Duty Hose. Parflex also supplies products for turbo supply/drain and other coolant lines, from smooth bore to convoluted, lightweight lubricant systems, and flexible metal hose.

Parflex metal hose assemblies are built, tested, cleaned and packaged to suit customer requirements. With zero permeation, excellent chemical resistance and a full vacuum rating, Parflex metal hose handles temperatures that simply aren't compatible with rubber or other thermoplastics!

Applications

- Fuel lines
- Power steering
- Coiled air brake
- Exhaust and AC lines
- Lubrication systems
- Mini hydraulics
- Compressor discharge
- Fast response
- Compressed natural gas
- Fuel transfer





Markets

- Class 8 Heavy Truck
- Standard Box Truck
- Diesel Truck
- Bus
- Refrigeration Truck
- Refuse Truck
- Fire Truck
- Trailers
- Street Sweepers
- Military Vehicles
- RV's



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Life Science



Parflex has extended the selection of medical tubing capabilities through the TexMed® side of the TexLoc® business unit in Fort Worth, TX. TexMed specializes in the extrusion of precision tolerances for custom tubing and custom profiles of TexFluor® PTFE, ePTFE, FEP, PFA, and ETFE. Coupled with the traditional line of thermoplastic tubing in Vinyl, Polypropylene and Nylon Pure Air tubing, Parflex has a tube for almost every medical application.

With an emphasis on partnering, Parflex Engineers work closely with our customer's engineers to create tubing products with increased performance. The newest development is a medical grade FEP Heat Shrink for catheter forming. Unlike typical FEP heat shrink, which often wrinkles, twist or grows up to 20% in length when shrinking, the new heat shrink has a uniform recovery and a maximum constrained elongation up to + 5%. And with a faster recovery time, medical grade FEP Heat Shrink is very responsive in reflow applications for catheter manufacturing.

Parker/TexMed Advantages include:

- Application and Material Engineering Support
- Precision tolerance tubing
- Ability to handle low volume start up projects
- Class 10,000 clean room
- Complete traceability on each lot of product
- Wide range of US Class VI compliant materials

In the value added service department, specialty operations such as laser marking, tube cutting, scoring, slitting, marking, flanging, flaring, tipping and other services are available.



Applications

- Catheter construction
- Sheathing
- Forming devices
- Introducers
- Dental equipment
- Endoscopic instruments
- Tracheotomy tubes
- Blood analyzer
- Lab instruments
- General robotics
- Air and gas transport
- Packaging



For detailed ordering information, please consult price list or contact Parflex® Division.

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Markets

- Medical Device
- Medical Equipment
- Dental



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Food & Beverage



Parflex Hose and Tubing for the Food and Beverage market is comprised of FDA compliant thermoplastic tubing and fluoropolymer hose and tubing. Tubing is available in Polyethylene, Polypropylene, Vinyl and Fluoropolymers, consisting of PTFE, FEP, PFA & PVDF.

Parflex PAGE high temperature food processing hoses are available in several types and sizes. All of these hoses offer a seamless tube that resists the collection of bacteria, preserve taste and are very easy to clean. For added strength and durability, each hose has an added reinforcement that withstands internal pressures, a helical wire for full vacuum capabilities, and a high-grade weather and abrasion resistant cover for longevity.

All of the Parflex PAGE Food Transfer Hoses are compliant with FDA, 3A and USDA product standards. Additional compliance for specialty hoses includes PMPO (Grade A Pasteurized Milk Ordinance) and CFIA (Canadian Food Inspection Agency).

One of the more unique hoses, PAGE-flex® SBF™, offers a superior bend radius (1/2 the bend radius of conventional fluoropolymer braided hoses) coupled with superior kink and vacuum resistance. The newest hoses, 944B and 955B can handle pressures up to 5,500 psi.

Applications

- Transport of edible oils, syrup, milk and other food products
- Dispensing equipment
- Tank transfer of raw products
- In-plant transfer for processing





Markets

- Food
- Beverage



For detailed ordering information, please consult price list or contact Parflex® Division.

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Notes

[illegible]

Hose

Thermoplastic

Fluoropolymer



Table of Contents

Introduction

| | |
|-----------------------------------------------------------------------|-----------|
| Visual Index | A-4 : A-6 |
| Understanding Parflex Hose | A-7 |
| How to Read the Hose Section | A-8 |
| Thermoplastic Hose Selection - Construction/Specifications, PSI | A-10 |
| Thermoplastic Hose Selection - Construction/Specifications, MPa | A-14 |
| Fluoropolymer Hose Selection - Construction/Specifications, PSI | A-12 |
| Fluoropolymer Hose Selection - Construction/Specifications, MPa | A-16 |
| Nomenclature - Parflex Thermoplastic Hose Assembly | A-18 |
| Nomenclature - Parflex PTFE Hose Assembly | A-19 |
| Nomenclature - PAGE Industrial S30 & S40 Hose Assembly | A-20 |
| Nomenclature - "True-Bore" & Convoluted Hose Assembly | A-21 |

Parflex Thermoplastic Hose

| | |
|------------------------------------------------------|------|
| 510A Refrigerant | A-34 |
| 510C General Hydraulic | A-35 |
| 518C General Hydraulic | A-36 |
| 515H Compact | A-37 |
| 520N General Hydraulic | A-38 |
| 526BA Breathing Air Refill, 6000 psi | A-39 |
| 527BA Breathing Air Refill, 7000 psi | A-40 |
| 528N General Hydraulic, Non-Conductive | A-38 |
| 53DM DuraMax™ Low Temperature | A-41 |
| 538DM DuraMax™ Low Temperature, Non-Conductive | A-41 |
| 540N General Hydraulic | A-42 |
| 540P Specialty Water | A-43 |
| 55LT Low Temperature | A-44 |
| 560 General Hydraulic | A-30 |
| 563 General Hydraulic | A-31 |
| 56DH Diagnostic | A-45 |
| 568DH Diagnostic, Non-Conductive | A-45 |
| 573X Fast Response, 3000 psi | A-46 |
| 575X Fast Response, 5000 psi | A-47 |
| 580N/H580N High Pressure | A-48 |
| 588N High Pressure, Non-Conductive | A-48 |
| 590 General Hydraulic | A-32 |
| 593 General Hydraulic | A-33 |
| 83FR General Purpose | A-49 |
| 1035A Power Cleaning | A-50 |
| 1035HT Power Cleaning, Non-Conductive | A-51 |
| B9 General Purpose, Transfer Hose | A-52 |
| CNG Compressed Natural Gas | A-53 |
| D6 Constant Pressure, 3000 psi | A-22 |
| Duraflex 528N/548N | A-64 |



Parflex Thermoplastic Hose (cont.)

| | |
|------------------------------------------------------|------|
| H6 Constant Pressure, 3000 psi | A-23 |
| HFS Firescreen® | A-24 |
| HFS2 Firescreen II® | A-25 |
| HJK Highjack® Jackline | A-29 |
| HLB Lubrication Line..... | A-54 |
| HTB Eliminator®, Compact | A-28 |
| M8 High Pressure, Hydraulic..... | A-27 |
| MSH Marine Steering | A-55 |
| MSXL Marine Steering | A-56 |
| PTH Marine Power Tilt..... | A-57 |
| R6 Constant Pressure, Hydraulic Abrasion King® | A-26 |
| S4 Predator® Water Jetting, 4000 psi..... | A-58 |
| S5 Predator® Water Jetting, 4000 psi..... | A-59 |
| S6 Predator® Water Jetting, 2500 psi | A-60 |
| S9 Predator® Water Jetting, 3000 psi..... | A-61 |
| SLH Sewer Leader | A-62 |
| XDH eXtreme™ Duty | A-63 |

Parflex Fluoropolymer Hose

| | |
|----------------------------------------------------------------------------------|------|
| 919/919B PTFE Hose, Natural & Static Dissipative Core Tube | A-65 |
| 919J PTFE Hose, Silicone Jacket | A-66 |
| 919U PTFE Hose, High Abrasion Resistance | A-67 |
| 929/929B Heavy Wall PTFE Hose, Natural & Static Dissipative Core Tube | A-68 |
| 929BJ PTFE Hose, Static Dissipative Core Tube, Silicone Jacket..... | A-69 |
| 939/939B Convoluted PTFE Hose, Natural & Static Dissipative Core Tube | A-70 |
| 943B High Pressure PTFE Hose, Static Dissipative Core Tube, 3000 psi..... | A-71 |
| 944B High Pressure PTFE Hose, Static Dissipative Core Tube, up to 4500 psi | A-72 |
| 950B High Pressure PTFE Hose, Static Dissipative Core Tube, 4000 psi..... | A-73 |
| 955B High Pressure PTFE Hose, Static Dissipative Core Tube, 5500 psi..... | A-74 |

PAGE Fluoropolymer Hose

| | |
|---------------------------------------------------------------------------------------------------|------|
| S30/S30B PTFE Hose, Nominal I.D., Natural & Static Dissipative Core Tube..... | A-75 |
| S40/S40B Heavy Wall PTFE Hose, Nominal I.D., Natural & Static Dissipative Core Tube..... | A-76 |
| STW/STB PTFE Hose, "True-Bore", Natural & Static Dissipative Core Tube | A-77 |
| SBFW/SBFB PTFE Hose, PAGE-flex® SBF, Natural & Static Dissipative Core Tube..... | A-78 |
| SCW/SCB Convoluted PTFE Hose, SS Braid, Natural & Static Dissipative Core Tube | A-79 |
| PCW/PCB Convoluted PTFE Hose, PP Braid, Natural & Static Dissipative Core Tube | A-80 |
| SCWV/SCBV Heavy Wall Convoluted PTFE Hose, SS Braid, Natural & Static Dissipative Core Tube | A-81 |
| PCWV/PCBV Heavy Wall Convoluted PTFE Hose, PP Braid, Natural & Static Dissipative Core Tube | A-82 |
| SCWV-FS/SCBV-FS Flare-Seal® PTFE Hose, SS Braid, Natural & Static Dissipative Core Tube | A-83 |
| PCWV-FS/PCBV-FS Flare-Seal® PTFE Hose, PP Braid, Natural & Static Dissipative Core Tube..... | A-84 |
| RCTW/RCTB EPDM Rubber Covered Hose, Natural & Static Dissipative Core Tube | A-85 |

Parflex Hose Visual Index

| | | | | |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Parflex Thermoplastic | | 510A Refrigerant | 510C General Hydraulic | 518C Non-Conductive Hydraulic |
| | |  A-34 |  A-35 |  A-36 |
| 515H Compact/Lightweight | 520N General Hydraulic | 528N Non-Conductive Hydraulic | 526BA Breathing Air Refill 6000 PSI | |
|  A-37 |  A-38 |  A-38 |  A-39 | |
| 527BA Breathing Air Refill 7000 PSI | 53DM DuraMax™ Low Temperature 3000 PSI | 538DM DuraMax™ Low Temperature, Non-Conductive 3000 PSI | 540N General Hydraulic | |
|  A-40 |  A-41 |  A-41 |  A-42 | |
| 540P Specialty Water | 55LT Low Temperature | 560 General Hydraulic | 563 General Hydraulic | |
|  A-43 |  A-44 |  A-30 |  A-31 | |
| 56DH Diagnostic Hose | 568DH Non-Conductive Diagnostic Hose | 573X Fast Response 3000 PSI | 575X Fast Response 5000 PSI | |
|  A-45 |  A-45 |  A-46 |  A-47 | |
| 580N H580N High Pressure | 588N Non-Conductive High Pressure | 590 General Hydraulic Hose | 593 General Hydraulic Hose | |
|  A-48 |  A-48 |  A-32 |  A-33 | |
| 83FR General Purpose | 1035A Power Cleaning | 1035HT High Temperature Power Cleaning | B9 General Purpose | |
|  A-49 |  A-50 |  A-51 |  A-52 | |
| CNG Compressed Natural Gas | D6 Constant Pressure 3000 PSI | Duraflex 528N & 548N | H6 Constant Pressure Hydraulic | |
|  A-53 |  A-22 HYBRID |  A-64 |  A-23 | |
| HFS Firescreen® | HFS2 Firescreen II® | HJK Highjack® Jackline | HLB Lubrication Line | |
|  A-24 HYBRID |  A-25 HYBRID |  A-29 HYBRID |  A-54 | |

Parflex Hose Visual Index (cont.)

| | | | | | | | |
|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|
| Parflex Thermoplastic (cont.) | | HTB | Eliminator® Compact | M8 | High Pressure Hydraulic | MSH | Marine Steering |
| | |  | A-28 HYBRID |  | A-27 HYBRID |  | A-55 |
| MSXL | Marine Steering | PTH | Marine Power Tilt | R6 | Constant Pressure Hydraulic | S4 | Predator® Water Jetting 4000 PSI |
|  | A-56 |  | A-57 |  | A-26 |  | A-58 |
| S5 | Predator® Water Jetting 4000 PSI | S6 | Predator® Water Jetting 2500 PSI | S9 | Predator® Water Jetting 3000 PSI | SLH | Predator® Sewer Leader |
|  | A-59 |  | A-60 |  | A-61 |  | A-62 |
| XDH | eXtreme™ Duty Hose | | | | | | |
|  | A-63 | | | | | | |

| | | | | | | | |
|-------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------|
| Parflex PTFE | | 919 | PTFE Hose | 919B | PTFE Hose with Static-Dissipative Tube | 919J | Silicone Jacketed PTFE Hose |
| | |  | A-65 |  | A-65 |  | A-66 |
| 919U | High Abrasion Resistance PTFE Hose | 929 | Heavy Wall PTFE Hose | 929B | Heavy Wall PTFE Hose with Static-Dissipative Tube | 929BJ | Silicone Jacketed PTFE Hose with Static-Dissipative Tube |
|  | A-67 |  | A-68 |  | A-68 |  | A-69 |
| 939 | Convuluted PTFE Hose | 939B | Convuluted PTFE Hose with Static-Dissipative Tube | 943B | High Pressure PTFE Hose with Static-Dissipative Tube | 944B | High Pressure PTFE Hose with Static-Dissipative Tube |
|  | A-70 |  | A-70 |  | A-71 |  | A-72 |
| 950B | High Pressure PTFE Hose with Static-Dissipative Tube | 955B | High Pressure PTFE Hose with Static-Dissipative Tube | | | | |
|  | A-73 |  | A-74 | | | | |

For detailed ordering information, please consult price list or contact Parflex® Division.

Parflex Hose Visual Index (cont.)

| | | | | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------|
| PAGE Product Line PTFE & Specialty | | S30 | Industrial .030 wall with SS Braid | S30B | Conductive Industrial .030 wal lwith SS Braid | S40 | Heavy Wall .040 with SS Braid |
| | |  | A-75 |  | A-75 |  | A-76 |
| S40B | Conductive Heavy Wall .040 with SS Braid | STW | "True-Bore" with SS Braid | STB | Conductive "True-Bore" with SS Braid | SBFW | PAGE-flex® SBF |
|  | A-76 |  | A-77 |  | A-77 |  | A-78 |
| SBFB | Conductive PAGE-flex® SBF | SCW | Convuluted with SS Braid | SCB | Conductive Convuluted with SS Braid | PCW | Convuluted with PP Braid |
|  | A-78 |  | A-79 |  | A-79 |  | A-80 |
| PCB | Conductive Convuluted with PP Braid | SCWV | Heavy Wall Convuluted with SS Braid | SCBV | Conductive Heavy Wall Convuluted with SS Braid | PCWV | Heavy Wall Convuluted with PP Braid |
|  | A-80 |  | A-81 |  | A-81 |  | A-82 |
| PCBV | Conductive Heavy Wall Convuluted PP Braid | SCWV-FS | Flare-Seal® with SS Braid | SCBV-FS | Conductive Flare-Seal® with SS Braid | PCWV-FS | Flare-Seal® with PP Braid |
|  | A-82 |  | A-83 |  | A-83 |  | A-84 |
| PCBV-FS | Conductive Flare-Seal® with PP Braid | RCTW | EPDM Rubber Covered Natural | RCTB | EPDM Rubber Covered Conductive | | |
|  | A-84 |  | A-85 |  | A-85 | | |

Understanding Parflex Hoses

Parflex hoses are designed to handle extremes. They are used in some of the harshest applications around, such as over-the-sheave or aerial lift because they are specifically designed to handle extreme abrasion, temperatures, flexing, impulse and other factors that cause many hoses to fail.

Hydraulic & Pneumatic Hose Selection

Parflex offers several lines of hydraulic and pneumatic hoses; General Hydraulic, Specialty and Hybrid hoses. Specialty hoses were designed to solve specific application problems. Hybrid Hoses belong specifically to Parflex, with no exact competitor equivalents. These hoses were developed to cross typical SAE boundaries and meet specific challenges our customers were bringing to us.

The visual index and hose pages indicate which hoses are Hybrid designs.

Review the STAMPED guide (Size, Temperature, Media, Application, Pressure, End Configuration, and Delivery Preferences) on page 11 to help narrow your search for the desired product.

Fluoropolymer Selection

Parflex offers two lines of Fluoropolymer Hoses; the traditional Parflex PTFE hoses, many that meet 100R14 standards, and the PAGE hose line, comprised of specialty braid and construction options.

Hoses in PAGE product line are manufactured with materials that are compliant to the following standards:

FDA 21 CFR 177.1550 and 177.2600
USP XXII Class
Pharmacopoeia 3.1.9
ISO 10093, Sections 5, 6 10, and 11
USDA Standards
3A Standards

The visual index and hose pages indicate which hoses are from the PAGE product line.

Hose Assemblies

To determine hose part numbers for assemblies use the following nomenclature pages:

- Parflex Thermoplastic Hose Assembly Nomenclature pg. A-18
- Parflex PTFE Hose Assembly Nomenclature pg. A-19
- PAGE Product Line - Industrial S30 & S40 Hose Assembly Nomenclature pg. A-20
- PAGE Product Line - "True-Bore" & Convuluted Hose Assembly Nomenclature pg. A-21

For detailed ordering information, please consult price list or contact Parflex® Division.

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How to Read the Hose Section

Parker Parflex offers an extensive selection of thermoplastic, hybrid and PTFE hose products, covering the full range of industrial fluid transfer applications. Parflex hose products have been tested and approved to meet and exceed global standards. Hoses range in size from 1/16" to 4" I.D. and are compatible with permanent crimp and field attachable fittings.

D6 – Hybrid Hose

Base part number, product description

Features

Product features and benefits

Certifications

Product certifications



Applications/Markets

Product applications for all pertinent markets



Transportation



Mobile Hydraulics



Industrial Pneumatic



Industrial Hydraulics



Fluid Handling



Life Science



Food & Beverage

How to Read the Hose Section

| 1 Part Number | 2 Nominal I.D. | | 3 Maximum O.D. | | 4 Maximum Working Pressure | | 5 Minimum Bend Radius | | 6 Weight | | 7 Permanent Fitting Series |
|------------------|-------------------|----|-------------------|----|-------------------------------|----------|--------------------------|----|-------------|----------|-------------------------------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi/73°F | bar/23°C | inch | mm | lbs./ft. | kg./mtr. | |
| D604 | 1/4 | 6 | .51 | 13 | 3,000 | 20.7 | 2.00 | 51 | .12 | .18 | 43/HY |

Base part number example.

NOTE: The primary dimensions are in black. The metric/inch equivalents appear in blue.

1 Part Number

Hose Series Part Number - When two part numbers are listed, the second number is the static-dissipative or non-conductive design.

2 Inside Diameter

A critical value along with pressure when calculating fluid flow rate and pressure drop.

3 Outside Diameter

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

4 Working Pressure

Working pressure rating must meet or exceed the maximum operating pressure of the system including pressure spikes.

5 Minimum Bend Radius

Minimum radius that the hose can be bent. Exceeding the bend radius can cause kinking, inner tube washout, or excessive stress on reinforcement resulting in shortened service life.

6 Weight

Provided where weight is a critical parameter in the design of the system.

7 Approved Fitting

Permanent or field attachable fitting series approved for selected hose. Products with no fitting selection are only available in factory built assemblies.

Thermoplastic Hose Selection

PSI

| Reinforcement Type | PSI Thermoplastic Hose Working Pressures | | | | | | | | | | | | | |
|--------------------|------------------------------------------|----------------------------------------------|------|------|------|-------|------|------|------|------|------|------|-------|-------|
| | | | 3/32 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| | Dash Size | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 |
| | Hose | Description | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI |
| Wire | D6 | Hybrid - Constant Pressure Hydraulic | | | | 3000 | | 3000 | 3000 | 3000 | 3000 | 3000 | | |
| | H6 | Constrant Pressure Hydraulic | | | | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | | | |
| | R6 | Constrant Pressure Hydraulic | | | | 3000 | | 3000 | 3000 | 3000 | 3000 | 3000 | | |
| | HFS | Hybrid - General Hydraulic | | | | 3000 | 3000 | 2500 | 2500 | | 1500 | 1250 | | |
| | HFS2 | Hybrid - General Hydraulic | | | | 5000 | | 4000 | 3500 | 2750 | 2250 | 2000 | | |
| | M8 | Hybrid - High Pressure Hydraulic | | | | | | 4000 | 4000 | 4000 | | | | |
| | HTB | Hybrid - Compact High Pressure Hydraulic | | | | 7000 | | 5500 | 5000 | 4000 | 4000 | 3500 | | |
| | HJK | Hybrid - Jackline | | | | 10000 | | | | | | | | |
| | 560 | General Hydraulic | | | 3500 | 3250 | 3000 | 2750 | 2500 | 2000 | 1750 | | | |
| | 563 | Constant Pressure Hydraulic | | | | 3000 | | 3000 | 3000 | | | | | |
| | 590 | General Hydraulic | | | 5000 | 5000 | | 4000 | 3500 | 3000 | 2500 | 2000 | | |
| | 593 | General Hydraulic | | | | | | | | | 3000 | 3250 | | |
| | XDH | Formed Hose | | | | 5000 | | 4000 | 4000 | | | | | |
| Fiber | 510A | Industrial Refrigerant | | 2500 | 3000 | 2750 | 2500 | 2250 | 2000 | | 1250 | 1000 | | |
| | 510C | General Hydraulic | | 2500 | 3250 | 3000 | 2500 | 2250 | 2250 | 1500 | 1250 | 1000 | | |
| | 518C | Non-conductive Hydraulic | | 2500 | 3250 | 3000 | 2500 | 2250 | 2250 | 1500 | 1250 | 1000 | | |
| | 515H | Compact/Lightweight Hydraulic | | | 2175 | 2000 | 1750 | 1500 | 1500 | | | | | |
| | 520N / 528N | General Hydraulic / Non-conductive Hydraulic | | | 5000 | 5000 | 4500 | 4000 | 3500 | | | | | |
| | 526BA | Breathing Air Refill | | | 6000 | 6000 | | 6000 | | | | | | |
| | 527BA | Breathing Air Refill | | | 7000 | 7000 | | | | | | | | |
| | 53DM / 538DM | Low Temperature Hydraulic | | | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | | | |
| | 540N | General Hydraulic | | 3000 | 3000 | 2750 | 2500 | 2250 | 2000 | | 1250 | | | |
| | 540P | Specialty Water | | | | 2750 | | 2250 | 2000 | | 1250 | | | |
| | 55LT | Low Temperature Hydraulic | | 3000 | 3250 | 3000 | 2500 | 2250 | 2000 | | 1250 | | | |
| | 56DH / 568DH | Diagnostic | 6000 | 6000 | | | | | | | | | | |
| | 573X | Fast Response Hydraulic | | | 3000 | | | | | | | 3000 | | |
| | 575X | Fast Response Hydraulic | | | 5000 | 5000 | | 5000 | 5000 | | 5000 | 5000 | | |
| | 580N / 588N | General Hydraulic / Non-conductive Hydraulic | | | | 5000 | | 4000 | 3500 | 2750 | 2250 | 2000 | | |
| | H580N | General Hydraulic | | | | | | | | | | 3000 | | |
| | 1035A | Power Cleaning | | | | 1500 | 1200 | | | | | | | |
| | 1035HT | Power Cleaning | | | 2000 | 1750 | 1500 | | | | | | | |
| | 83FR | General Purpose Air/Water | | | | 300 | | 300 | 300 | | 300 | | | |
| | B9 | General Purpose Air/Water | | | 250 | 250 | 250 | 250 | 250 | 250 | | | | |
| | 5CNG | Compressed Natural Gas | | | 5000 | 5000 | | 5000 | 5000 | | 5000 | 5000 | | |
| | HLB | Lubrication | | 3000 | 3000 | | | | | | | | | |
| | MSH | Marine Steering | | | | | 1000 | 1000 | | | | | | |
| | MSXL | Marine Steering | | | | | 1500 | | | | | | | |
| | PTH | Power Tilt | | | | 3000 | | | | | | | | |
| | S4 | Sewer Cleaning - Lateral Cleaning | | | | | | | 4000 | 4000 | | | | |
| | S5 | Sewer Cleaning - Lateral Cleaning | | | | | | | 4000 | | | | | |
| | S6 | Sewer Cleaning | | | | | | | | | 2500 | 2500 | 2500 | 2500 |
| | S9 | Sewer Cleaning | | | | | | | | | 3000 | 3000 | | |
| | SLH | Sewer Cleaning Leader Hose | | | | | | | 4000 | 4000 | 3000 | 3000 | | |
| | Duraflex - 548N | Aerial Lift - Hydraulic Tool | | | | | | 2250 | | | | | | |
| | Duraflex - 528N | Aerial Lift - Hydraulic Tool | | | | | | 4000 | | | | | | |



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Construction/Specifications

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

PSI Thermoplastic Construction and Specifications

| | Core Tube | Reinforcement Material | Cover Material | SAE Specification | Additional Specifications | Page # | Reinforcement Type | |
|--|-----------|------------------------|----------------|--------------------------------|---------------------------------------|--------|----------------------------------------------|-----------------|
| | | | | | | | Description | Hose |
| | P | Wire | R | 100R17 | MSHA IC-40/32 | A-22 | Hybrid - Constant Pressure Hydraulic | D6 |
| | P | Wire | P | 100R17 | | A-23 | Constrant Pressure Hydraulic | H6 |
| | P | Wire | F | 100R17 | | A-26 | Constrant Pressure Hydraulic | R6 |
| | P | Wire | R | 100R1 / J1942 | MSHA IC-40/32 | A-24 | Hybrid - General Hydraulic | HFS |
| | P | Wire | R | 100R2 / 100R16 / J1942 | MSHA IC-40/32 | A-25 | Hybrid - General Hydraulic | HFS2 |
| | P | Wire | R | 100R12 | MSHA IC-40/32 | A-27 | Hybrid - High Pressure Hydraulic | M8 |
| | P | Wire | R | J1942 | MSHA IC-40/32 | A-28 | Hybrid - Compact High Pressure Hydraulic | HTB |
| | P | Wire | R | - | IJ-100 | A-29 | Hybrid - Jackline | HJK |
| | P | Wire | U | 100R1 | MSHA IC-40/32 / DNV | A-30 | General Hydraulic | 560 |
| | P | Wire | U | 100R17 | MSHA IC-40/32 | A-31 | Constant Pressure Hydraulic | 563 |
| | P | Wire | U | 100R2 / 100R16 | DNV | A-32 | General Hydraulic | 590 |
| | P / N | Wire | U | 100R2 | MSHA IC-40/32 / DNV | A-33 | General Hydraulic | 593 |
| | PFX | Wire | PFX | 100R2 / 100R16 / 100R17/100R19 | | A-63 | Formed Hose | XDH |
| | PFX | Fiber | U | 100R7 | MSHA IC-40/32* | A-34 | Industrial Refrigerant | 510A |
| | P | Fiber | PFX | 100R7 | MSHA IC-40/32* | A-35 | General Hydraulic | 510C |
| | P | Fiber | PFX | 100R7 | DNV | A-36 | Non-conductive Hydraulic | 518C |
| | P | Fiber | U | - | MSHA IC-40/32 | A-37 | Compact/Lightweight Hydraulic | 515H |
| | N | Fiber | U | 100R8 | MSHA IC-40/32 / DNV* | A-38 | General Hydraulic / Non-conductive Hydraulic | 520N / 528N |
| | N | Fiber | U | - | CGA / NFPA 1901 | A-39 | Breathing Air Refill | 526BA |
| | N | Fiber | U | - | CGA / NFPA 1901 | A-40 | Breathing Air Refill | 527BA |
| | P | Fiber | P | 100R18 | | A-41 | Low Temperature Hydraulic | 53DM / 538DM |
| | N | Fiber | U | 100R7 | MSHA IC-40/32 / DNV | A-42 | General Hydraulic | 540N |
| | PE | Fiber | U | 100R7 | FDA / NSF 51 | A-43 | Specialty Water | 540P |
| | P | Fiber | P | 100R7 | | A-44 | Low Temperature Hydraulic | 55LT |
| | N | Fiber | U | - | MSHA IC-40/32* | A-45 | Diagnostic | 56DH / 568DH |
| | N | Fiber | U | - | MSHA IC-40/32 / DNV* | A-46 | Fast Response Hydraulic | 573X |
| | N | Fiber | U | - | MSHA IC-40/32 / DNV | A-47 | Fast Response Hydraulic | 575X |
| | N | Fiber | U | 100R8 | MSHA IC-40/32 / DNV* | A-48 | General Hydraulic / Non-conductive Hydraulic | 580N / 588N |
| | N | Fiber | U | 100R8 | DNV | A-48 | General Hydraulic | H580N |
| | PFX | Fiber | U | - | | A-50 | Power Cleaning | 1035A |
| | N | Fiber | U | - | | A-51 | Power Cleaning | 1035HT |
| | U | Fiber | U | - | DNV | A-49 | General Purpose Air/Water | 83FR |
| | U | Fiber | U | - | | A-52 | General Purpose Air/Water | B9 |
| | N | Fiber | U | - | ANSI IAS NGV4.2-CSA 12.52 / ECE R110* | A-53 | Compressed Natural Gas | CNG |
| | P | Fiber | U | - | MSHA IC-40/32 | A-54 | Lubrication | HLB |
| | N | Fiber | U | - | | A-55 | Marine Steering | MSH |
| | N | Fiber | U | - | | A-56 | Marine Steering | MSXL |
| | N | Fiber / SS Wire | U | - | | A-57 | Power Tilt | PTH |
| | P | Fiber | U | - | Wastec WRP05-1996 | A-58 | Sewer Cleaning - Lateral Cleaning | S4 |
| | P | Fiber | U | - | Wastec WRP05-1996 | A-59 | Sewer Cleaning - Lateral Cleaning | S5 |
| | P | Fiber | U | - | Wastec WRP05-1996 | A-60 | Sewer Cleaning | S6 |
| | P | Fiber | U | - | Wastec WRP05-1996 | A-61 | Sewer Cleaning | S9 |
| | P | Wire | R | - | | A-62 | Sewer Cleaning Leader Hose | SLH |
| | N | Fiber | U | 100R7 | | A-64 | Aerial Lift - Hydraulic Tool | Duraflex - 548N |
| | N | Fiber | U | 100R8 | | A-64 | Aerial Lift - Hydraulic Tool | Duraflex - 528N |

*View Government & Agency Specifications for exceptions, pg. G-59

Legend

N – Nylon
NP – Neoprene

P – Copolyester
PE – Polyethylene

PFX – Proprietary Mat'l
S – Silicone

R – Rubber
U – Urethane

F – Fiber

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Fluoropolymer Hose Selection PSI

| Reinforcement Type | PSI Fluoropolymer Hose Working Pressures | | | | | | | | | | | | | | | |
|--------------------|---------------------------------------------------------|-----------------------------------------------------------------------------|---------------|-------|------|------|-------|------|------|-------|-------|------|------|------|------|------|
| | Fractional Size | | Nominal Sizes | | | | | | | | | | | | | |
| | | | 1/8 | 3/16 | 1/4 | 5/16 | 13/32 | 1/2 | 5/8 | 7/8 | 1-1/8 | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 |
| | | | | 15/64 | | | 7/16 | | | 29/32 | | | | | | |
| | Dash Size | | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -3 | -4 | -6 | -8 | -10 |
| | | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | |
| Wire | 919 | PTFE Hose | 3000 | 3000 | 3000 | 2500 | 2000 | 1500 | 1200 | 1000 | 625 | | | | | |
| | 919B | PTFE Hose with static-dissipative core | | 3000 | 3000 | 2500 | 2000 | | | | | | | | | |
| | 919J | Silicone Jacketed PTFE Hose | | 3000 | 3000 | 2500 | 2000 | 1500 | 1200 | | | | | | | |
| | 919U | High Abrasion Resistance PTFE Hose | | 3000 | | 2500 | 2000 | | 1200 | 1000 | | | | | | |
| | 929 | Heavy Wall PTFE Hose | | 3000 | | 2500 | 2000 | | | | | | | | | |
| | 929B | Heavy Wall PTFE Hose with static-dissipative core | | 3000 | | 2500 | 2000 | | 1200 | 1250 | | | | | | |
| | 929BJ | Silicone Jacketed PTFE Hose with static-dissipative core | | 3000 | | 2500 | 2000 | | 1200 | 1250 | | | | | | |
| | 939 | Convuluted PTFE Hose | | | | | | | | | | | | 1500 | 1350 | 1000 |
| | 939B | Convuluted PTFE Hose with static-dissipative core | | | | | | | | | | | | 1500 | 1350 | 1000 |
| | 943B | High Pressure PTFE Hose with static-dissipative core | | | | 3000 | 3000 | 3000 | 3000 | 3000 | | | | | | |
| | 944B | High Pressure PTFE Hose with static-dissipative core | | 4500 | | 4500 | 4500 | 4500 | 4500 | 4000 | | | | | | |
| | 950B | High Pressure PTFE Hose with static-dissipative core | | 4000 | | 4000 | 4000 | 4000 | 4000 | 4000 | | | | | | |
| | 955B | High Pressure PTFE Hose with static-dissipative core | | 5500 | | 5500 | 5500 | 5500 | 5500 | 5500 | | | | | | |
| | S30 | PAGE Ind. PTFE Hose | 3000 | 3000 | 3000 | 2500 | 2000 | 1750 | 1500 | 1000 | | | | | | |
| | S30B | PAGE Ind. PTFE Hose with static-dissipative core | 3000 | 3000 | 3000 | 2500 | 2000 | 1750 | 1500 | 1000 | | | | | | |
| | S40 | PAGE Ind. Heavy Wall PTFE Hose | 3000 | 3000 | 3000 | 2500 | 2000 | 1750 | 1500 | 1000 | | | | | | |
| | S40B | PAGE Ind. Heavy Wall PTFE Hose with static-dissipative core | 3000 | 3000 | 3000 | 2500 | 2000 | 1750 | 1500 | 1000 | | | | | | |
| | STW Z-STW* | PAGE Heavy Wall PTFE Hose *Double Braid | | | | | | | | | | 3000 | 3000 | 2000 | 1750 | |
| | STB Z-STB* | PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid | | | | | | | | | | 3000 | 3000 | 2000 | 1750 | |
| | SCW | PAGE Convuluted PTFE Hose | | | | | | | | | | | 1500 | 1500 | 1500 | |
| | SCB | PAGE Convuluted PTFE Hose with static-dissipative core | | | | | | | | | | | 1500 | 1500 | 1500 | |
| | SCWV | PAGE Heavy Wall Convuluted PTFE Hose | | | | | | | | | | | | | 1500 | |
| | SCBV | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core | | | | | | | | | | | | | 1500 | |
| SCWV-FS | PAGE Flare-Seal® PTFE Hose | | | | | | | | | | | | | 500 | | |
| SCBV-FS | PAGE Flare-Seal® PTFE Hose with static-dissipative core | | | | | | | | | | | | | 500 | | |
| Fiber | PCW | PAGE Convuluted PTFE Hose, PP Braid | | | | | | | | | | 350 | 350 | 300 | | |
| | PCB | PAGE Convuluted PTFE Hose with static-dissipative core, PP Braid | | | | | | | | | | 350 | 350 | 300 | | |
| | PCWV | PAGE Heavy Wall Convuluted PTFE Hose, PP Briad | | | | | | | | | | | | 300 | | |
| | PCBV | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core, PP Briad | | | | | | | | | | | | 300 | | |
| | PCWV-FS | PAGE Flare-Seal® PTFE Hose, PP Braid | | | | | | | | | | | | 300 | | |
| | PCBV-FS | PAGE Flare-Seal® PTFE Hose with static-dissipative core, PP Briad | | | | | | | | | | | | 300 | | |
| Other | RCTW | PAGE Rubber Covered EPDM | | | | | | | | | | | | 500 | | |
| | RCTB | PAGE Rubber Covered EPDM with static-dissipative core | | | | | | | | | | | | 500 | | |
| | SBFW | PAGE Page-Flex® SBF | | | | | | | | | | | 300 | 300 | | |
| | SBFB | PAGE Page-Flex® SBF with static-dissipative core | | | | | | | | | | | 300 | 300 | | |

*Z indicates double braid.

Legend

PTFE – Polytetrafluoroethylene

PTFE-S – Polytetrafluoroethylene, Static Dissipative

FEP – Fluorinated Ethylene Propylene

PFA – Perfluoroalkoxy



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Construction/Specifications

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

| PSI Fluoropolymer Construction and Specifications | | | | | | | | | | | | | | Reinforcement Type | |
|---------------------------------------------------|---------------|-------|-------|------|-------|-----|-----|-----------|----------------------------|----------------|--------|-----------------------------------------------------------------------------|--|--------------------|------------|
| | | | | | | | | | | | | | | | |
| 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2-1/2 | 3 | 4 | | | | | Fractional Size | | | |
| -12 | -16 | -20 | -24 | -32 | -40 | -48 | -64 | Core Tube | Reinforcement Material | Cover Material | Page # | Dash Size | | | |
| PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | | | | | | | | |
| | | | | | | | | PTFE | SS Wire | — | A-65 | PTFE Hose | | 919 | Wire Braid |
| | | | | | | | | PTFE-S | SS Wire | — | A-65 | PTFE Hose with static-dissipative core | | 919B | |
| | | | | | | | | PTFE | SS Wire | S | A-66 | Silicone Jacketed PTFE Hose | | 919J | |
| | | | | | | | | PTFE | SS Wire | U | A-67 | High Abrasion Resistance PTFE Hose | | 919U | |
| | | | | | | | | PTFE | SS Wire | — | A-68 | Heavy Wall PTFE Hose | | 929 | |
| | | | | | | | | PTFE-S | SS Wire | — | A-68 | Heavy Wall PTFE Hose with static-dissipative core | | 929B | |
| | | | | | | | | PTFE-S | SS Wire | S | A-69 | Silicone Jacketed PTFE Hose with static-dissipative core | | 929BJ | |
| 1100 | 1000 | 1000 | 750 | 250 | | | | PTFE | SS Wire | — | A-70 | Convuluted PTFE Hose | | 939 | |
| 1100 | 1000 | 1000 | 1000 | 1000 | | | | PTFE-S | SS Wire | — | A-70 | Convuluted PTFE Hose with static-dissipative core | | 939B | |
| | | | | | | | | PTFE-S | SS Wire | — | A-71 | High Pressure PTFE Hose with static-dissipative core | | 943B | |
| | | | | | | | | PTFE-S | SS Wire | — | A-72 | High Pressure PTFE Hose with static-dissipative core | | 944B | |
| | | | | | | | | PTFE-S | SS Wire | — | A-73 | High Pressure PTFE Hose with static-dissipative core | | 950B | |
| | | | | | | | | PTFE-S | SS Wire | — | A-74 | High Pressure PTFE Hose with static-dissipative core | | 955B | |
| | | | | | | | | PTFE | SS Wire | — | A-75 | PAGE Ind. PTFE Hose | | S30 | |
| | | | | | | | | PTFE-S | SS Wire | — | A-75 | PAGE Ind. PTFE Hose with static-dissipative core | | S30B | |
| | | | | | | | | PTFE | SS Wire | — | A-76 | PAGE Ind. Heavy Wall PTFE Hose | | S40 | |
| | | | | | | | | PTFE-S | SS Wire | — | A-76 | PAGE Ind. Heavy Wall PTFE Hose with static-dissipative core | | S40B | |
| 1000 | 1000 1200* | 1000* | 900* | | | | | PTFE | SS Wire | — | A-77 | PAGE Heavy Wall PTFE Hose *Double Braid | | STW Z-STW* | |
| 1000 | 1000 1200* | 1000* | 900* | | | | | PTFE-S | SS Wire | — | A-77 | PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid | | STB Z-STB* | |
| 1200 | 1000 | 750 | 650 | 450 | | | | PTFE | SS Wire | — | A-79 | PAGE Convuluted PTFE Hose | | SCW | |
| 1200 | 1000 | 750 | 650 | 450 | | | | PTFE-S | SS Wire | — | A-79 | PAGE Convuluted PTFE Hose with static-dissipative core | | SCB | |
| 1200 | 1000 | 750 | 650 | 450 | 200 | 175 | 150 | PTFE | SS Wire | — | A-81 | PAGE Heavy Wall Convuluted PTFE Hose | | SCWV | |
| 1200 | 1000 | 750 | 650 | 450 | 200 | 175 | 150 | PTFE-S | SS Wire | — | A-81 | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core | | SCBV | |
| 425 | 350 | 325 | 300 | 250 | 200 | 175 | 150 | PTFE | SS Wire | — | A-83 | PAGE Flare-Seal® PTFE Hose | | SCWV-FS | |
| 425 | 350 | 325 | 300 | 250 | 200 | 175 | 150 | PTFE-S | SS Wire | — | A-83 | PAGE Flare-Seal® PTFE Hose with static-dissipative core | | SCBV-FS | |
| 250 | 250 | 200 | 200 | 200 | 200 | 200 | 200 | PTFE | PP | — | A-80 | PAGE Convuluted PTFE Hose, PP Braid | | PCW | |
| 250 | 250 | 200 | 200 | 200 | 200 | 200 | 200 | PTFE-S | PP | — | A-80 | PAGE Convuluted PTFE Hose with static-dissipative core, PP Braid | | PCB | |
| 250 | 250 | 200 | 200 | 200 | 150 | 125 | 100 | PTFE | PP | — | A-82 | PAGE Heavy Wall Convuluted PTFE Hose, PP Briad | | PCWV | |
| 250 | 250 | 200 | 200 | 200 | 150 | 125 | 100 | PTFE-S | PP | — | A-82 | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core, PP Briad | | PCBV | |
| 250 | 250 | 200 | 200 | 200 | 150 | 125 | 100 | PTFE | PP | — | A-84 | PAGE Flare-Seal® PTFE Hose, PP Braid | | PCWV-FS | |
| 250 | 250 | 200 | 200 | 200 | 150 | 125 | 100 | PTFE-S | PP | — | A-84 | PAGE Flare-Seal® PTFE Hose with static-dissipative core, PP Briad | | PCBV-FS | |
| 500 | 450 | 375 | 375 | 300 | 200 | 200 | 150 | FEP | Double Wire Helix | EPDM | A-85 | PAGE Rubber Covered EPDM | | RCTW | Other |
| 500 | 450 | 375 | 375 | 300 | 200 | 200 | 150 | PFA-S | Double Wire Helix | EPDM | A-85 | PAGE Rubber Covered EPDM with static-dissipative core | | RCTB | |
| 250 | 250 | | 200 | | | | | PFA | Bonded Wire-Silicone-Fiber | — | A-78 | PAGE Page-Flex® SBF | | SBFW | |
| 250 | 250 | | 200 | | | | | PFA-S | Bonded Wire-Silicone-Fiber | — | A-78 | PAGE Page-Flex® SBF with static-dissipative core | | SBFB | |

PFA-S – Perfluoroalkoxy, Static Dissipative
PP – Polypropylene

S – Silicone
U – Polyurethane

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Thermoplastic Hose Selection

MPa

| Reinforcement Type | MPa Thermoplastic Hose Working Pressures | | | | | | | | | | | | | |
|--------------------|------------------------------------------|----------------------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| | | | 3/32 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| | Dash Size | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 |
| | Hose | Description | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa |
| Wire | D6 | Hybrid - Constant Pressure Hydraulic | | | | 20.7 | | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | | |
| | H6 | Constrant Pressure Hydraulic | | | | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | | | |
| | R6 | Constrant Pressure Hydraulic | | | | 20.7 | | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | | |
| | HFS | Hybrid - General Hydraulic | | | | 20.7 | 20.7 | 17.2 | 17.2 | | 10.3 | 8.6 | | |
| | HFS2 | Hybrid - General Hydraulic | | | | 34.5 | | 27.6 | 24.1 | 19.0 | 15.5 | 13.8 | | |
| | M8 | Hybrid - High Pressure Hydraulic | | | | | | 27.6 | 27.6 | 27.6 | | | | |
| | HTB | Hybrid - Compact High Pressure Hydraulic | | | | 48.3 | | 37.9 | 34.5 | 27.6 | 27.6 | 24.1 | | |
| | HJK | Hybrid - Jackline | | | | 68.9 | | | | | | | | |
| | 560 | General Hydraulic | | | 24.1 | 22.4 | 20.7 | 19.0 | 17.2 | 13.8 | 12.1 | | | |
| | 563 | Constant Pressure Hydraulic | | | | 20.7 | | 20.7 | 20.7 | | | | | |
| | 590 | General Hydraulic | | | 34.5 | 34.5 | | 27.6 | 24.1 | 20.7 | 17.2 | 13.8 | | |
| | 593 | General Hydraulic | | | | | | | | | 20.7 | 22.4 | | |
| XDH | Formed Hose | | | | 34.5 | | 27.6 | 27.6 | | | | | | |
| Fiber | 510A | Industrial Refrigerant | | 17.2 | 20.7 | 19.0 | 17.2 | 15.5 | 13.8 | | 8.6 | 6.9 | | |
| | 510C | General Hydraulic | | 17.2 | 22.4 | 20.7 | 17.2 | 15.5 | 15.5 | 10.3 | 8.6 | 6.9 | | |
| | 518C | Non-conductive Hydraulic | | 17.2 | 22.4 | 20.7 | 17.2 | 15.5 | 15.5 | 10.3 | 8.6 | 6.9 | | |
| | 515H | Compact/Lightweight Hydraulic | | | 15.0 | 13.8 | 12.1 | 10.3 | 10.3 | | | | | |
| | 520N / 528N | General Hydraulic / Non-conductive Hydraulic | | | 34.5 | 34.5 | 31.0 | 27.6 | 24.1 | | | | | |
| | 526BA | Breathing Air Refill | | | 41.4 | 41.4 | | 41.4 | | | | | | |
| | 527BA | Breathing Air Refill | | | 48.3 | 48.3 | | | | | | | | |
| | 53DM / 538DM | Low Temperature Hydraulic | | | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | | | |
| | 540N | General Hydraulic | | 20.7 | 20.7 | 19.0 | 17.2 | 15.5 | 13.8 | | 8.6 | | | |
| | 540P | Specialty Water | | | | 19.0 | | 15.5 | 13.8 | | 8.6 | | | |
| | 55LT | Low Temperature Hydraulic | | 20.7 | 22.4 | 20.7 | 17.2 | 15.5 | 13.8 | | 8.6 | | | |
| | 56DH / 568DH | Diagnostic | 41.4 | 41.4 | | | | | | | | | | |
| | 573X | Fast Response Hydraulic | | | 20.7 | | | | | | | 20.7 | | |
| | 575X | Fast Response Hydraulic | | | 34.5 | 34.5 | | 34.5 | 34.5 | | 34.5 | 34.5 | | |
| | 580N / 588N | General Hydraulic / Non-conductive Hydraulic | | | | 34.5 | | 27.6 | 24.1 | 19.0 | 15.5 | 13.8 | | |
| | H580N | General Hydraulic | | | | | | | | | | 20.7 | | |
| | 1035A | Power Cleaning | | | | 10.3 | 8.3 | | | | | | | |
| | 1035HT | Power Cleaning | | | 13.8 | 12.1 | 10.3 | | | | | | | |
| | 83FR | General Purpose Air/Water | | | | 2.1 | | 2.1 | 2.1 | | 2.1 | | | |
| | B9 | General Purpose Air/Water | | | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | | | | |
| | 5CNG | Compressed Natural Gas | | | 34.5 | 34.5 | | 34.5 | 34.5 | | 34.5 | 34.5 | | |
| | HLB | Lubrication | | 20.7 | 20.7 | | | | | | | | | |
| | MSH | Marine Steering | | | | | 6.9 | 6.9 | | | | | | |
| | MSXL | Marine Steering | | | | | 10.3 | | | | | | | |
| | PTH | Power Tilt | | | | 20.7 | | | | | | | | |
| | S4 | Sewer Cleaning - Lateral Cleaning | | | | | | | 27.6 | 27.6 | | | | |
| | S5 | Sewer Cleaning - Lateral Cleaning | | | | | | | 27.6 | | | | | |
| | S6 | Sewer Cleaning | | | | | | | | | 17.2 | 17.2 | 17.2 | 17.2 |
| | S9 | Sewer Cleaning | | | | | | | | | 20.7 | 20.7 | | |
| | SLH | Sewer Cleaning Leader Hose | | | | | | | 27.6 | 27.6 | 20.7 | 20.7 | | |
| | Duraflex - 548N | Aerial Lift - Hydraulic Tool | | | | | | 15.5 | | | | | | |
| | Duraflex - 528N | Aerial Lift - Hydraulic Tool | | | | | | 27.6 | | | | | | |



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Construction/Specifications

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

| | MPa Thermoplastic Construction and Specifications | | | | | | | | Reinforcement Type |
|-------|---------------------------------------------------|------------------------|----------------|--------------------------------|---------------------------------------|------------------------------|-----------------------------------------------|--------------|--------------------|
| | | | | | | | | | |
| | Core Tube | Reinforcement Material | Cover Material | SAE Specification | Additional Specifications | Page # | | | |
| | | | | | | | Description | Hose | |
| Wire | P | Wire | R | 100R17 | MSHA IC-40/32 | A-22 | Hybrid - Constant Pressure Hydraulic | D6 | |
| | P | Wire | P | 100R17 | | A-23 | Constrant Pressure Hydraulic | H6 | |
| | P | Wire | F | 100R17 | | A-26 | Constrant Pressure Hydraulic | R6 | |
| | P | Wire | R | 100R1 / J1942 | MSHA IC-40/32 | A-24 | Hybrid - General Hydraulic | HFS | |
| | P | Wire | R | 100R2 / 100R16 / J1942 | MSHA IC-40/32 | A-25 | Hybrid - General Hydraulic | HFS2 | |
| | P | Wire | R | 100R12 | MSHA IC-40/32 | A-27 | Hybrid - High Pressure Hydraulic | M8 | |
| | P | Wire | R | J1942 | MSHA IC-40/32 | A-28 | Hybrid - Compact High Pressure Hydraulic | HTB | |
| | P | Wire | R | - | IJ-100 | A-29 | Hybrid - Jackline | HJK | |
| | P | Wire | U | 100R1 | MSHA IC-40/32 / DNV | A-30 | General Hydraulic | 560 | |
| | P | Wire | U | 100R17 | MSHA IC-40/32 | A-31 | Constant Pressure Hydraulic | 563 | |
| | P | Wire | U | 100R2 / 100R16 | DNV | A-32 | General Hydraulic | 590 | |
| | P / N | Wire | U | 100R2 | MSHA IC-40/32 / DNV | A-33 | General Hydraulic | 593 | |
| | PFX | Wire | PFX | 100R2 / 100R16 / 100R17/100R19 | | A-63 | Formed Hose | XDH | |
| Fiber | PFX | Fiber | U | 100R7 | MSHA IC-40/32* | A-34 | Industrial Refrigerant | 510A | |
| | P | Fiber | PFX | 100R7 | MSHA IC-40/32* | A-35 | General Hydraulic | 510C | |
| | P | Fiber | PFX | 100R7 | DNV | A-36 | Non-conductive Hydraulic | 518C | |
| | P | Fiber | U | - | MSHA IC-40/32 | A-37 | Compact/Lightweight Hydraulic | 515H | |
| | N | Fiber | U | 100R8 | MSHA IC-40/32 / DNV* | A-38 | General Hydraulic / Non-conductive Hydraulic" | 520N / 528N | |
| | N | Fiber | U | - | CGA / NFPA 1901 | A-39 | Breathing Air Refill | 526BA | |
| | N | Fiber | U | - | CGA / NFPA 1901 | A-40 | Breathing Air Refill | 527BA | |
| | P | Fiber | P | 100R18 | | A-41 | Low Temperature Hydraulic | 53DM / 538DM | |
| | N | Fiber | U | 100R7 | MSHA IC-40/32 / DNV | A-42 | General Hydraulic | 540N | |
| | PE | Fiber | U | 100R7 | FDA / NSF 51 | A-43 | Specialty Water | 540P | |
| | P | Fiber | P | 100R7 | | A-44 | Low Temperature Hydraulic | 55LT | |
| | N | Fiber | U | - | MSHA IC-40/32* | A-45 | Diagnostic | 56DH / 568DH | |
| | N | Fiber | U | - | MSHA IC-40/32 / DNV* | A-46 | Fast Response Hydraulic | 573X | |
| | N | Fiber | U | - | MSHA IC-40/32 / DNV | A-47 | Fast Response Hydraulic | 575X | |
| | N | Fiber | U | 100R8 | MSHA IC-40/32 / DNV* | A-48 | General Hydraulic / Non-conductive Hydraulic | 580N / 588N | |
| | N | Fiber | U | 100R8 | DNV | A-48 | General Hydraulic | H580N | |
| | PFX | Fiber | U | - | | A-50 | Power Cleaning | 1035A | |
| | N | Fiber | U | - | | A-51 | Power Cleaning | 1035HT | |
| | U | Fiber | U | - | DNV | A-49 | General Purpose Air/Water | 83FR | |
| | U | Fiber | U | - | | A-52 | General Purpose Air/Water | B9 | |
| | N | Fiber | U | - | ANSI IAS NGV4.2-CSA 12.52 / ECE R110* | A-53 | Compressed Natural Gas | CNG | |
| | P | Fiber | U | - | MSHA IC-40/32 | A-54 | Lubrication | HLB | |
| | N | Fiber | U | - | | A-55 | Marine Steering | MSH | |
| | N | Fiber | U | - | | A-56 | Marine Steering | MSXL | |
| | N | Fiber / SS Wire | U | - | | A-57 | Power Tilt | PTH | |
| | P | Fiber | U | - | Wastec WRP05-1996 | A-58 | Sewer Cleaning - Lateral Cleaning | S4 | |
| | P | Fiber | U | - | Wastec WRP05-1996 | A-59 | Sewer Cleaning - Lateral Cleaning | S5 | |
| P | Fiber | U | - | Wastec WRP05-1996 | A-60 | Sewer Cleaning | S6 | | |
| P | Fiber | U | - | Wastec WRP05-1996 | A-61 | Sewer Cleaning | S9 | | |
| P | Wire | R | - | | A-62 | Sewer Cleaning Leader Hose | SLH | | |
| N | Fiber | U | 100R7 | | A-64 | Aerial Lift - Hydraulic Tool | Duraflex - 548N | | |
| N | Fiber | U | 100R8 | | A-64 | Aerial Lift - Hydraulic Tool | Duraflex - 528N | | |

*View Government & Agency Specifications for exceptions, pg. G-59

Legend

N – Nylon
NP – Neoprene

P – Copolyester
PE – Polyethylene

PFX – Proprietary Mat'l
S – Silicone

R – Rubber
U – Urethane

F – Fiber

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Fluoropolymer Hose Selection MPa

| Reinforcement Type | MPa Fluoropolymer Hose Working Pressures | | | | | | | | | | | | | | | |
|-----------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|---------------|------|------|---------------|------|-------|--------------|-------|------|------|------|------|-------|
| | Fractional Size | | Nominal Sizes | | | | | | | | | | | | | |
| | | | 1/8 | 3/16 15/64 | 1/4 | 5/16 | 13/32 7/16 | 1/2 | 5/8 | 7/8 29/32 | 1-1/8 | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 |
| | Dash Size | | -3 | -4 | -5 | -6 | -8 | -10 | -12.1 | -16 | -20 | -3 | -4 | -6 | -8 | -10.3 |
| | | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | MPa | |
| Wire | 919 | PTFE Hose | 20.7 | 20.7 | 20.7 | 17.2 | 13.8 | 10.3 | 8.3 | 6.9 | 4.3 | | | | | |
| | 919B | PTFE Hose with static-dissipative core | | 20.7 | 20.7 | 17.2 | 13.8 | | | | | | | | | |
| | 919J | Silicone Jacketed PTFE Hose | | 20.7 | 20.7 | 17.2 | 13.8 | 10.3 | 8.3 | | | | | | | |
| | 919U | High Abrasion Resistance PTFE Hose | | 20.7 | | 17.2 | 13.8 | | 8.3 | 6.9 | | | | | | |
| | 929 | Heavy Wall PTFE Hose | | 20.7 | | 17.2 | 13.8 | | | | | | | | | |
| | 929B | Heavy Wall PTFE Hose with static-dissipative core | | 20.7 | | 17.2 | 13.8 | | 8.3 | 9 | | | | | | |
| | 929BJ | Silicone Jacketed PTFE Hose with static-dissipative core | | 20.7 | | 17.2 | 13.8 | | 8.3 | 9 | | | | | | |
| | 939 | Convuluted PTFE Hose | | | | | | | | | | | | 10.3 | 9.3 | 6.9 |
| | 939B | Convuluted PTFE Hose with static-dissipative core | | | | | | | | | | | | 10.3 | 9.3 | 6.9 |
| | 943B | High Pressure PTFE Hose with static-dissipative core | | | | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | | | | | | |
| | 944B | High Pressure PTFE Hose with static-dissipative core | | 31.0 | | 31.0 | 31.0 | 31.0 | 31.0 | 27.5 | | | | | | |
| | 950B | High Pressure PTFE Hose with static-dissipative core | | 27.5 | | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | | | | | | |
| | 955B | High Pressure PTFE Hose with static-dissipative core | | 37.9 | | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | | | | | | |
| | S30 | PAGE Ind. PTFE Hose | 20.7 | 20.7 | 20.7 | 17.2 | 13.8 | 12.1 | 10.3 | 6.9 | | | | | | |
| | S30B | PAGE Ind. PTFE Hose with static-dissipative core | 20.7 | 20.7 | 20.7 | 17.2 | 13.8 | 12.1 | 10.3 | 6.9 | | | | | | |
| | S40 | PAGE Ind. Heavy Wall PTFE Hose | 20.7 | 20.7 | 20.7 | 17.2 | 13.8 | 12.1 | 10.3 | 6.9 | | | | | | |
| | S40B | PAGE Ind. Heavy Wall PTFE Hose with static-dissipative core | 20.7 | 20.7 | 20.7 | 17.2 | 13.8 | 12.1 | 10.3 | 6.9 | | | | | | |
| | STW Z-STW* | PAGE Heavy Wall PTFE Hose *Double Braid | | | | | | | | | | 20.7 | 20.7 | 13.8 | 12.1 | |
| | STB Z-STB* | PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid | | | | | | | | | | 20.7 | 20.7 | 13.8 | 12.1 | |
| | SCW | PAGE Convuluted PTFE Hose | | | | | | | | | | | 10.3 | 10.3 | 10.3 | |
| SCB | PAGE Convuluted PTFE Hose with static-dissipative core | | | | | | | | | | | 10.3 | 10.3 | 10.3 | | |
| SCWV | PAGE Heavy Wall Convuluted PTFE Hose | | | | | | | | | | | | | 10.3 | | |
| SCBV | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core | | | | | | | | | | | | | 10.3 | | |
| SCWV-FS | PAGE Flare-Seal® PTFE Hose | | | | | | | | | | | | | 3.5 | | |
| SCBV-FS | PAGE Flare-Seal® PTFE Hose with static-dissipative core | | | | | | | | | | | | | 3.5 | | |
| Fiber | PCW | PAGE Convuluted PTFE Hose, PP Braid | | | | | | | | | | 2.4 | 2.4 | 2.1 | | |
| | PCB | PAGE Convuluted PTFE Hose with static-dissipative core, PP Braid | | | | | | | | | | 2.4 | 2.4 | 2.1 | | |
| | PCWV | PAGE Heavy Wall Convuluted PTFE Hose, PP Briad | | | | | | | | | | | | 2.1 | | |
| | PCBV | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core, PP Briad | | | | | | | | | | | | 2.1 | | |
| | PCWV-FS | PAGE Flare-Seal® PTFE Hose, PP Braid | | | | | | | | | | | | 2.1 | | |
| | PCBV-FS | PAGE Flare-Seal® PTFE Hose with static-dissipative core, PP Briad | | | | | | | | | | | | 2.1 | | |
| Other | RCTW | PAGE Rubber Covered EPDM | | | | | | | | | | | | 3.5 | | |
| | RCTB | PAGE Rubber Covered EPDM with static-dissipative core | | | | | | | | | | | | 3.5 | | |
| | SBFW | PAGE Page-Flex® SBF | | | | | | | | | | | 2.1 | 2.1 | | |
| | SBFB | PAGE Page-Flex® SBF with static-dissipative core | | | | | | | | | | | 2.1 | 2.1 | | |

*Z indicates double braid.

Legend

PTFE – Polytetrafluoroethylene

PTFE-S – Polytetrafluoroethylene, Static Dissipative

FEP – Fluorinated Ethylene Propylene

PFA – Perfluoroalkoxy



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Construction/Specifications

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

| PSI Fluoropolymer Construction and Specifications | | | | | | | | | | | | | | Reinforcement Type |
|---------------------------------------------------|-------------|-------|-------|-----|-------|-----|-----|-----------|----------------------------|----------------|--------|-----------------------------------------------------------------------------|-----------------|--------------------|
| 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2-1/2 | 3 | 4 | | | | | | Fractional Size | |
| -12. | -16 | -20 | -24 | -32 | -40 | -48 | -64 | Core Tube | Reinforcement Material | Cover Material | Page # | | Dash Size | |
| PSI | PSI | PSI | PSI | PSI | PSI | PSI | PSI | | | | | | | |
| | | | | | | | | PTFE | SS Wire | — | A-65 | PTFE Hose | 919 | Wire Braid |
| | | | | | | | | PTFE-S | SS Wire | — | A-65 | PTFE Hose with static-dissipative core | 919B | |
| | | | | | | | | PTFE | SS Wire | S | A-66 | Silicone Jacketed PTFE Hose | 919J | |
| | | | | | | | | PTFE | SS Wire | U | A-67 | High Abrasion Resistance PTFE Hose | 919U | |
| | | | | | | | | PTFE | SS Wire | — | A-68 | Heavy Wall PTFE Hose | 929 | |
| | | | | | | | | PTFE-S | SS Wire | — | A-68 | Heavy Wall PTFE Hose with static-dissipative core | 929B | |
| | | | | | | | | PTFE-S | SS Wire | S | A-69 | Silicone Jacketed PTFE Hose with static-dissipative core | 929BJ | |
| 7.6 | 6.9 | 6.9 | 5.2 | 1.7 | | | | PTFE | SS Wire | — | A-70 | Convuluted PTFE Hose | 939 | |
| 7.6 | 6.9 | 6.9 | 5.2 | 1.7 | | | | PTFE-S | SS Wire | — | A-70 | Convuluted PTFE Hose with static-dissipative core | 939B | |
| | | | | | | | | PTFE-S | SS Wire | — | A-71 | High Pressure PTFE Hose with static-dissipative core | 943B | Wire Braid |
| | | | | | | | | PTFE-S | SS Wire | — | A-72 | High Pressure PTFE Hose with static-dissipative core | 944B | |
| | | | | | | | | PTFE-S | SS Wire | — | A-73 | High Pressure PTFE Hose with static-dissipative core | 950B | |
| | | | | | | | | PTFE-S | SS Wire | — | A-74 | High Pressure PTFE Hose with static-dissipative core | 955B | |
| | | | | | | | | PTFE | SS Wire | — | A-75 | PAGE Ind. PTFE Hose | S30 | |
| | | | | | | | | PTFE-S | SS Wire | — | A-75 | PAGE Ind. PTFE Hose with static-dissipative core | S30B | |
| | | | | | | | | PTFE | SS Wire | — | A-76 | PAGE Ind. Heavy Wall PTFE Hose | S40 | |
| | | | | | | | | PTFE-S | SS Wire | — | A-76 | PAGE Ind. Heavy Wall PTFE Hose with static-dissipative core | S40B | |
| 6.9 | 6.9 8.3* | 6.9* | 6.2* | | | | | PTFE | SS Wire | — | A-77 | PAGE Heavy Wall PTFE Hose *Double Braid | STW Z-STW* | |
| 6.9 | 6.9 8.3* | 6.9* | 6.2* | | | | | PTFE-S | SS Wire | — | A-77 | PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid | STB Z-STB* | |
| 8.3 | 6.9 | 5.2 | 4.5 | 3.1 | | | | PTFE | SS Wire | — | A-79 | PAGE Convuluted PTFE Hose | SCW | Fiber |
| 8.3 | 6.9 | 5.2 | 4.5 | 3.1 | | | | PTFE-S | SS Wire | — | A-79 | PAGE Convuluted PTFE Hose with static-dissipative core | SCB | |
| 8.3 | 6.9 | 5.2 | 4.5 | 3.1 | 1.4 | 1.2 | 1.0 | PTFE | SS Wire | — | A-81 | PAGE Heavy Wall Convuluted PTFE Hose | SCWV | |
| 8.3 | 6.9 | 5.2 | 4.5 | 3.1 | 1.4 | 1.2 | 1.0 | PTFE-S | SS Wire | — | A-81 | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core | SCBV | |
| 2.9 | 2.4 | 2.2 | 2.1 | 1.7 | 1.4 | 1.2 | 1.0 | PTFE | SS Wire | — | A-83 | PAGE Flare-Seal® PTFE Hose | SCWV-FS | |
| 2.9 | 2.4 | 2.2 | 2.1 | 1.7 | 1.4 | 1.2 | 1.0 | PTFE-S | SS Wire | — | A-83 | PAGE Flare-Seal® PTFE Hose with static-dissipative core | SCBV-FS | |
| 1.7 | 1.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | PTFE | PP | — | A-80 | PAGE Convuluted PTFE Hose, PP Braid | PCW | |
| 1.7 | 1.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | PTFE-S | PP | — | A-80 | PAGE Convuluted PTFE Hose with static-dissipative core, PP Braid | PCB | |
| 1.7 | 1.7 | 1.4 | 1.4 | 1.4 | 1.0 | .86 | .69 | PTFE | PP | — | A-82 | PAGE Heavy Wall Convuluted PTFE Hose, PP Braid | PCWV | |
| 1.7 | 1.7 | 1.4 | 1.4 | 1.4 | 1.0 | .86 | .69 | PTFE-S | PP | — | A-82 | PAGE Heavy Wall Convuluted PTFE Hose with static-dissipative core, PP Braid | PCBV | |
| 1.7 | 1.7 | 1.4 | 1.4 | 1.4 | 1.0 | .86 | .69 | PTFE | PP | — | A-84 | PAGE Flare-Seal® PTFE Hose, PP Braid | PCWV-FS | Other |
| 1.7 | 1.7 | 1.4 | 1.4 | 1.4 | 1.0 | .86 | .69 | PTFE-S | PP | — | A-84 | PAGE Flare-Seal® PTFE Hose with static-dissipative core, PP Braid | PCBV-FS | |
| 3.5 | 3.1 | 2.6 | 2.6 | 2.1 | 1.4 | 1.4 | 1.0 | FEP | Double Wire Helix | EPDM | A-85 | PAGE Rubber Covered EPDM | RCTW | |
| 3.5 | 3.1 | 2.6 | 2.6 | 2.1 | 1.4 | 1.4 | 1.0 | PFA-S | Double Wire Helix | EPDM | A-85 | PAGE Rubber Covered EPDM with static-dissipative core | RCTB | |
| 1.7 | 1.7 | | 1.4 | | | | | PFA | Bonded Wire-Silicone-Fiber | — | A-78 | PAGE Page-Flex® SBF | SBFW | |
| 1.7 | 1.7 | | 1.4 | | | | | PFA-S | Bonded Wire-Silicone-Fiber | — | A-78 | PAGE Page-Flex® SBF with static-dissipative core | SBFB | |

PFA-S – Perfluoroalkoxy, Static Dissipative
PP – Polypropylene

S – Silicone
U – Polyurethane

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A-17

Parflex Thermoplastic Hoses

Parflex Thermoplastic Hose Assembly Nomenclature



| | | | | | | | | |
|---|------|----|----|----|----|----|---|----|
| F | 540N | 06 | 39 | 12 | 12 | 12 | - | 52 |
|---|------|----|----|----|----|----|---|----|

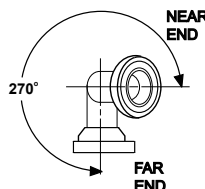
| F | Prefix | 540N | Hose | | 06-39 | Fitting Configuration* |
|---|------------------------------------------|------|-------|--------|-------|----------------------------------------------------|
| | F – Parkrimp (i.e. 55 series) | | D6 | 53DM | | 01 – Male Pipe Thread (with hex) - NPTF |
| | | | H6 | 540N | | 02 – Female Pipe Thread - NPT |
| | A – Factory Crimp (i.e. 54 series) | | R6 | 540P | | 03 – Male SAE (JIC) 37° Flare |
| | | | HFS | 55LT | | 05 – Male Straight Thread w/ O-Ring |
| | R – Field Attachable (i.e. 51 series) | | HFS2 | 56DH | | 06 – Female SAE (JIC) 37° Swivel |
| | | | M8 | 575X | | 07 – Female Pipe Swivel |
| | | | HTB | 580N | | 13 – Male Pipe Swivel - NPTF |
| | | | HJK | H580N | | 37 – Female SAE (JIC) 37° Swivel - 45° Elbow |
| | | | 560 | 588N | | 39 – Female SAE (JIC) 37° Swivel - 90° Elbow |
| | | | 563 | 1035A | | 41 – Female SAE (JIC) 37° Swivel - 90° Long Elbow |
| | | | 590 | 1035HT | | JC – Female Seal-Lok™ (ORFS) Swivel Short |
| | | | 593 | 83FR | | FU – Female JIC/BSP 30° Flare Swivel |
| | | | 510A | B9 | | MU – Metric Female JIC/BSP 30° Flare Swivel |
| | | | 510C | 5CNG | | JO – Male Seal-Lok™ (ORFS) Rigid Straight w/O-Ring |
| | | | 518C | HLB | | GU – Female JIC/BSP Parallel Pipe Swive (60° Cone) |
| | | | 515H | MSH | | JS – Female Seal-Lok™ (ORFS) Swivel |
| | | | 520N | MSXL | | J7 – Female Seal-Lok™ (ORFS) Swivel - 45° Elbow |
| | | | 528N | PTH | | J9 – Female Seal-Lok™ (ORFS) Swivel - 90° Elbow |
| | | | 526BA | SLH | | TU – Universal Tube Stub |
| | | | 527BA | | | AL – A-Lok® Compression |

* See pg. E-4 for detailed list of available fitting configurations.

* See pg. E-4 for detailed list of available fitting configurations.

| 12 | Connection Size 1 | 12 | Connection Size 2 | 12 | Hose Size | C | Fitting Material |
|-----|-------------------|-----|-------------------|-----|-----------|---|-----------------------------------|
| -2 | 1 1/8 | -2 | 2 1/8 | -2 | = 1/8 | | ** No Material Designation, Steel |
| -3 | 1 3/16 | -3 | 2 3/16 | -3 | = 3/16 | | C = Stainless Steel |
| -4 | 1 1/4 | -4 | 2 1/4 | -4 | = 1/4 | | B = Brass |
| -5 | 1 5/16 | -5 | 2 5/16 | -5 | = 5/16 | | |
| -6 | 1 3/8 | -6 | 2 3/8 | -6 | = 3/8 | | |
| -8 | 1 1/2 | -8 | 2 1/2 | -8 | = 1/2 | | |
| -10 | 1 5/8 | -10 | 2 5/8 | -10 | = 5/8 | | |
| -12 | 1 3/4 | -12 | 2 3/4 | -12 | = 3/4 | | |
| -16 | 1 1 | -16 | 2 1 | -16 | = 1 | | |
| -20 | 1 1-1/4 | -20 | 2 1-1/4 | | | | |

| 52 | Overall Length | ## | Displacement Angle |
|----|---------------------|----|---------------------------------------------------------------------------|
| | Expressed in inches | | Specified only if two elbow fittings are used to construct hose assembly. |



Parflex PTFE Hoses

Parflex PTFE Hose Assembly Nomenclature



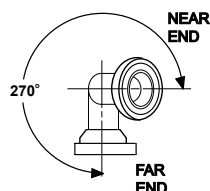
P 919 06 39 06 06 06 C - 30

| P | Prefix | 919 | Hose | | 06-39 | Fitting Configuration* |
|---|-----------------------------------------------------------------------------------------------------------------------------------|-----|---------|--------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | P – Permanent Crimp (i.e. 91N series) R – Field Attachable (i.e. 90 series) Factory Crimp (i.e. 94 series) | | Natural | Static Dissipative | | |
| | | | 919 | 919B | | 01 – Male Pipe Thread (with hex) - NPTF 02 – Female Pipe Thread - NPT 03 – Male SAE (JIC) 37° Flare 05 – Male Straight Thread w/ O-Ring 07 – Female Pipe Swivel 13 – Male Pipe Swivel - NPTF 37 – Female SAE (JIC) 37° Swivel - 45° Elbow 39 – Female SAE (JIC) 37° Swivel - 90° Elbow 41 – Female SAE (JIC) 37° Swivel - 90° Long Elbow JC – Female Seal-Lok™ (ORFS) Swivel Short FU – Female JIC/BSP 30° Flare Swivel MU – Metric Female JIC/BSP 30° Flare Swivel JO – Male Seal-Lok™ (ORFS) Rigid Straight w/O-Ring GU – Female JIC/BSP Parallel Pipe Swive (60° Cone) JS – Female Seal-Lok™ (ORFS) Swivel J7 – Female Seal-Lok™ (ORFS) Swivel - 45° Elbow J9 – Female Seal-Lok™ (ORFS) Swivel - 90° Elbow TU – Universal Tube Stub AL – A-Lok® Compression |
| | | | 919J | 929BJ | | |
| | | | 919U | – | | |
| | | | 929 | 929B | | |
| | | | 939 | 939B | | |
| | | | – | 943B | | |
| | | | | 944B | | |
| | | | – | 950B | | |
| | | | | 944B | | |

* See pg. E-4 for detailed list of available fitting configurations.

| 06 | Connection Size 1 | 06 | Connection Size 2 | 06 | Hose Size | C | Fitting Material | 30 | Overall Length |
|----|-------------------|----|-------------------|----|-------------|---|----------------------------|----|--------------------------------------------------------------------------|
| | -2 1 1/8 | | -2 2 1/8 | | -2 = 1/8 | | ** No Material Designation | | Expressed in Inches |
| | -3 1 3/16 | | -3 2 3/16 | | -3 = 3/16 | | C = Stainless Steel | | OAL measured from centerline of fitting seat if elbow fittings are used. |
| | -4 1 1/4 | | -4 2 1/4 | | -4 = 1/4 | | B = Brass (91N) | | |
| | -5 1 5/16 | | -5 2 5/16 | | -5 = 5/16 | | S = All Steel (91N) | | |
| | -6 1 3/8 | | -6 2 3/8 | | -6 = 3/8 | | | | |
| | -8 1 1/2 | | -8 2 1/2 | | -8 = 1/2 | | | | |
| | -10 1 5/8 | | -10 2 5/8 | | -10 = 5/8 | | | | |
| | -12 1 3/4 | | -12 2 3/4 | | -12 = 3/4 | | | | |
| | -16 1 1 | | -16 2 1 | | -16 = 1 | | | | |
| | -20 1 1-1/4 | | -20 2 1-1/4 | | -20 = 1-1/4 | | | | |
| | -24 1 1-1/2 | | -24 2 1-1/2 | | -24 = 1-1/2 | | | | |
| | -32 1 2 | | -32 2 2 | | -32 = 2 | | | | |

| ## | Displacement Angle |
|----|---------------------------------------------------------------------------|
| | Specified only if two elbow fittings are used to construct hose assembly. |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



A-19

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

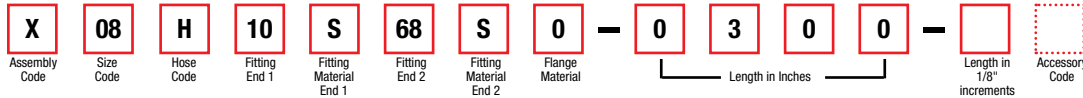
Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

Parflex PAGE Product Line

PAGE Industrial S30 & S40 Hose Assembly Nomenclature



| Assembly Code | |
|----------------------|----|
| Permanently Attached | X |
| Field Attachable | FA |

| Size Code | |
|-----------|----|
| 1/8" | 03 |
| 3/16" | 04 |
| 1/4" | 05 |
| 5/16" | 06 |
| 13/32" | 08 |
| 1/2" | 10 |
| 5/8" | 12 |
| 7/8" | 16 |
| 1-1/8" | 20 |

| Hose Code | |
|-----------|------|
| S30 | S |
| S30B | SB |
| S40 | H |
| S40B | HB |
| ZS40 | R |
| ZS40B | RB |
| 944B | 944B |
| 955B | 955B |

| Fitting Code | |
|--------------------------------------|----|
| Pipe Thread Fittings | |
| Male Pipe NPT Hex | 10 |
| Male Pipe NPT Step Up | 15 |
| Male Pipe NPT Step Down | 20 |
| Male Union | 11 |
| Male Union 45° | 14 |
| Male Union 90° | 19 |
| Male Union Step Up | 16 |
| Male Union Step Down | 21 |
| Female Pipe NPT Hex | 55 |
| Female Pipe Step Up | 58 |
| Female Pipe Step Down | 59 |
| Female Union | 80 |
| Female Union Step Up | 84 |
| Female Union Step Down | 88 |
| JIC Fittings | |
| JIC Female Swivel | 68 |
| JIC Female 45° Elbow | 66 |
| JIC Female 90° Elbow | 67 |
| SAE Female Swivel | 69 |
| SAE Female 45° Elbow | 70 |
| SAE Female 90° Elbow | 71 |
| JIC Female Step Up | 64 |
| JIC Female Step Down | 65 |
| Tube Stub Fittings | |
| Tube Stub | 91 |
| Tube Stub Step Up | 93 |
| Tube Stub Step Down | 95 |
| SAE Male Compression | 96 |
| Inverted Flare & Power Trim Fittings | |
| Male Straight | 76 |

| Fitting Material | |
|------------------|---|
| Stainless (SS) | S |
| Brass | B |
| Carbon Steel | C |

| Accessory Code | |
|------------------------|---|
| None | |
| Spring Guard | S |
| Armour Guard | A |
| End Bend Restrictors | E |
| Fire Sleeve | F |
| Rubber Sleeve | H |
| FEP Heat Shrink | T |
| Polyolefin Heat Shrink | P |
| Silicone Sleeve | M |
| Internal Spring | I |
| Vacuum Spring Wire | W |
| Specials | X |

Example: X08H10S68S0-0300

Size: 08 (13/32 I.D.) **Style:** S40

Braid: SS Single Braid

Core: Heavy Wall Smoothbore Convuluted PTFE

End 1: 1/2" 316 SS Male NPT

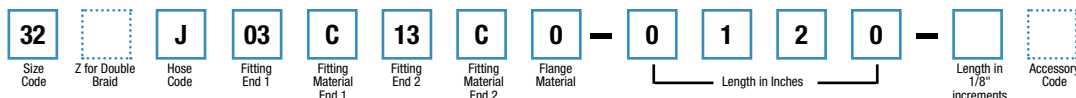
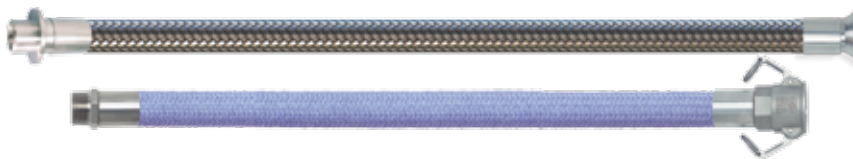
End 2: 1/2" 316 SS Female 37° Seat JIC Swivel

Length: 300" from end of Male Pipe to seat of Female JIC

NOTE: Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.

Parflex PAGE Product Line

“True-Bore” & Convoluted Hose Assembly Nomenclature



| Size Code | |
|-----------|----|
| 3/16" | 03 |
| 1/4" | 04 |
| 5/16" | 05 |
| 3/8" | 06 |
| 1/2" | 08 |
| 5/8" | 10 |
| 3/4" | 12 |
| 7/8" | 14 |
| 1" | 16 |
| 1-1/4" | 20 |
| 1-1/2" | 24 |
| 2" | 32 |
| 2-1/2" | 40 |
| 3" | 48 |
| 4" | 64 |

| Hose Code | |
|-----------|-----|
| ACW | A |
| CBV | BV |
| CWV | V |
| KCB | RB |
| KCW | R |
| NCB | MB |
| NCW | M |
| PCB | NB |
| PCBV | PB |
| PCW | N |
| PCWV | P |
| RCTB | GB |
| RCTW | G |
| SBFW | SBF |
| SCB | TB |
| SCBV | JB |
| SCW | T |
| SCWV | J |
| STB | SB |
| STW | S |

| Fitting Code | |
|-----------------------------------|----|
| Industrial Thread | |
| Male Pipe NPT Hex | 03 |
| Female Pipe NPT Hex | 06 |
| Male Pipe NPT Step Down | 13 |
| Male Pipe NPT Step Up | 23 |
| Male Union Step Up | 34 |
| Male Union Step Down | 35 |
| JIC Female Swivel | 30 |
| Male JIC 37° | 31 |
| JIC Female Step Up | 32 |
| Male Union | 33 |
| Female Union | 36 |
| Female NPSH | 27 |
| Female ORFS Swivel | 80 |
| Male ORFS | 81 |
| Male O-Ring Boss | 86 |
| Flanges | |
| Flange Retainer | 05 |
| Flare-Seal® Flange Retainer | 29 |
| Cam Lock | |
| Female Cam Lock | 07 |
| With Locking Handles | 17 |
| Male Cam Lock | 08 |
| Sanitary | |
| Sanitary Tri Clamp | 40 |
| Sanitary Tri Clamp 45° | 4K |
| Sanitary Tri Clamp 90° | 4L |
| Sanitary 1-Step Up | 4A |
| Sanitary 2-Step Up | 4B |
| Sanitary 3-Step Up | 4C |
| Sanitary Flare Seal™ | 4F |
| Sanitary Mini | 42 |
| Sanitary Mini Step Up | 43 |
| I-Line Male | 48 |
| I-Line Female | 49 |
| Bevel Seat Female | 45 |
| Bevel Seat Male | 46 |
| Tube and Vacuum | |
| PAGElok™ Tube Adapter | 38 |
| PAGElok™ Tube Compression Fitting | 39 |
| Special Ends | |
| Standard Cuffed Ends | 90 |
| Non Standard Fitting | 99 |

| Fitting Material | |
|-------------------------------------------------|---|
| 304 Stainless (SS 304) | 4 |
| 316 Stainless (SS 316) | 6 |
| 316 Stainless (SS 15Ra) Electropolished to 15Ra | E |
| Carbon Steel | C |
| PFA Encapsulated | T |
| Hastelloy | H |
| Monel | M |

| Flange Material | |
|-----------------|---|
| None | 0 |
| Carbon Steel | D |
| Epoxy Coated | |
| 304SS | 4 |
| 316SS | 6 |
| Kynar | K |
| Polypropylene | P |
| Non Standard | X |

| Accessory Code | |
|------------------------|---|
| None | |
| Spring Guard | S |
| Armour Guard | A |
| End Bend Restrictors | E |
| Fire Sleeve | F |
| Rubber Sleeve | H |
| FEP Heat Shrink | T |
| Polyolefin Heat Shrink | P |
| Silicone Sleeve | M |
| Vacuum Spring Wire | W |
| Specials | X |

Example: 32J03C13C0-0120-A

Size: 2" **Style:** SCWV

Braid: 316 SS Single Braid

Core: Heavy Wall Open Pitch Convoluted PTFE

End 1: 2" Male Pipe NPT Hex

End 2: 2" Male Pipe NPT Step Down

Length: 120" from end of Male NPT to end of Male Step Down

NOTE: Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.

The part numbering system shows the entire product line offered by the Parker PAGE International business unit. This catalog section only displays a few common hoses. To order items not listed in this catalog, please contact Parker PAGE Customer Service direct at (800) 847-7280 or email page@parker.com.

For detailed ordering information, please consult price list or contact Parflex® Division.

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A-21

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

D6 – Hybrid Hose



Features

- Ideally suited for inventory consolidations to cover all SAE 100R1 pressure and many SAE 100R2 pressure requirements.

Certifications

- Exceeds SAE 100R17
- MSHA Accepted

Applications/Markets



- Medium pressure hydraulic applications
- Agricultural equipment

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| D604 | 1/4 | 6 | .51 | 13 | 3,000 | 20.7 | 2.00 | 51 | 28 | .12 | .18 | 43**HY*** |
| D606 | 3/8 | 10 | .67 | 17 | 3,000 | 20.7 | 2.50 | 64 | 28 | .19 | .28 | 58/43**/HY*** |
| D608 | 1/2 | 13 | .82 | 21 | 3,000 | 20.7 | 3.50 | 89 | 28 | .29 | .43 | 58/43**/HY*** |
| D610* | 5/8 | 16 | 1.02 | 26 | 3,000 | 20.7 | 4.00 | 102 | 28 | .47 | .70 | 58/HY*** |
| D612* | 3/4 | 19 | 1.20 | 30 | 3,000 | 20.7 | 4.80 | 122 | 28 | .73 | 1.09 | 43**/HY*** |
| D616* | 1 | 25 | 1.50 | 38 | 3,000 | 20.7 | 6.00 | 152 | 28 | 1.01 | 1.50 | 43**/HY*** |

Construction

Tube: Copolyester

Reinforcement: One or two braids of high tensile steel wire

Cover: Smooth synthetic rubber

Operating Parameters

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in length at working pressure is +2% to -4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

43 Series – (**43 Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (***HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

*Two wire braid



For detailed ordering information, please consult price list or contact Parflex® Division.

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H6 – High Performance Hydraulic Hose



Features

- Largest temperature range in a medium pressure hydraulic hose
- Low length change capability under pressure
- Ideally suited for inventory consolidations to cover all SAE 100R1 pressure and many SAE 100R2 pressure and abrasion requirements

Certifications

- Exceeds SAE 100R17 Requirements

Applications/Markets



- Medium pressure hydraulic applications
- Over the sheave and boom hose applications

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| H604 | 1/4 | 6 | .49 | 12 | 3,000 | 20.7 | 2.00 | 51 | 28 | .12 | .18 | HY*** |
| H605 | 5/16 | 8 | .56 | 14 | 3,000 | 20.7 | 2.25 | 57 | 28 | .14 | .21 | HY*** |
| H606 | 3/8 | 10 | .65 | 17 | 3,000 | 20.7 | 2.50 | 64 | 28 | .19 | .28 | 58/43** |
| H608 | 1/2 | 13 | .78 | 20 | 3,000 | 20.7 | 3.50 | 89 | 28 | .29 | .43 | 58/HY*** |
| H610* | 5/8 | 16 | 1.00 | 25 | 3,000 | 20.7 | 4.00 | 102 | 28 | .47 | .70 | HY*** |
| H612* | 3/4 | 19 | 1.17 | 30 | 3,000 | 20.7 | 4.75 | 121 | 28 | .69 | 1.03 | HY*** |

Construction

Tube: Copolyester

Reinforcement: One or two braids of high tensile steel wire

Cover: Copolyester

Operating Parameters

Temperature Range:

(H604 thru H608) -70°F to +250°F (-57°C to +121°C)

(H610 thru H612) -50°F to +250°F (-45°C to +121°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in length at working pressure is +2% to -4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

43 Series – (**43 Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (**HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

*Two wire braid

Twin line hose available

Preformed assemblies

HFS – Firescreen® Hybrid Hose



Features

- Excellent flexibility
- Consistent long-lengths
- Lightweight
- Compact design

Certifications

- Exceeds SAE 100R1
- Marine Applications (SAE J1942 listed)
- MSHA Accepted

Applications/Markets



- Used in high temperature (to +250° F), medium pressure hydraulic applications
- Mobile equipment
- Machine tools
- Agricultural equipment

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| HFS04 | 1/4 | 6 | .51 | 13 | 3,000 | 20.7 | 2.00 | 51 | 28 | .12 | .18 | 43*/HY** | BA |
| HFS05 | 5/16 | 8 | .59 | 15 | 3,000 | 20.7 | 2.25 | 57 | 28 | .17 | .25 | HY** | — |
| HFS06 | 3/8 | 10 | .67 | 17 | 2,500 | 17.2 | 2.50 | 64 | 28 | .19 | .28 | 58/43*/HY** | BA |
| HFS08 | 1/2 | 13 | .79 | 20 | 2,500 | 17.2 | 3.50 | 89 | 28 | .25 | .37 | 58/43*/HY** | BA |
| HFS12 | 3/4 | 19 | 1.07 | 27 | 1,500 | 10.3 | 5.00 | 127 | 28 | .37 | .55 | 43*/HY** | — |
| HFS16 | 1 | 25 | 1.37 | 35 | 1,250 | 8.6 | 10.00 | 254 | 28 | .53 | .79 | HY** | — |

Construction

Tube: Copolyester

Reinforcement: One braid of high tensile steel wire

Cover: Smooth synthetic rubber

Operating Parameters

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: +2%/-4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

BA Series – pg. E-79

43 Series – (*43 Series Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (**HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

HFS2 – Firescreen II® Hybrid Hose



Features

- Excellent flexibility
- Consistent long-lengths
- Lightweight
- Compact design

Certifications

- Meets or Exceeds SAE 100R2 & 100R16
- Marine Applications (SAE J1942 listed)
- MSHA Accepted

Applications/Markets



- Medium pressure hydraulic applications
- Mobile equipment
- Machine tools
- Agricultural equipment

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| HFS204* | 1/4 | 6 | .57 | 14 | 5,000 | 34.5 | 2.00 | 51 | 28 | .21 | .31 | 43**/HY*** | BA |
| HFS206 | 3/8 | 10 | .68 | 17 | 4,000 | 27.6 | 2.50 | 64 | 28 | .23 | .34 | 58/43**/HY*** | BA |
| HFS208 | 1/2 | 13 | .82 | 21 | 3,500 | 24.1 | 3.50 | 89 | 28 | .29 | .43 | 58/43**/HY*** | BA |
| HFS210 | 5/8 | 16 | .97 | 25 | 2,750 | 19.0 | 4.00 | 102 | 28 | .38 | .57 | 43**/HY*** | — |
| HFS212 | 3/4 | 19 | 1.10 | 28 | 2,250 | 15.5 | 4.75 | 121 | 28 | .45 | .67 | 43**/HY*** | BA |
| HFS216* | 1 | 25 | 1.45 | 37 | 2,000 | 13.8 | 6.00 | 152 | 28 | .80 | 1.19 | 43**/HY*** | BA |

Construction

Tube: Copolyester

Reinforcement: One or two braids of high tensile steel wire

Cover: Smooth synthetic rubber

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: +2%/-4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

BA Series – pg. E-79

43 Series – (**43 Series Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (**HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

*Two wire braid

For detailed ordering information, please consult price list or contact Parflex® Division.

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A-25

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

R6 – Abrasion King® Hose



Features

- Excellent abrasion resistance
- Blue plait provides hose identification

Certifications

- Exceeds SAE 100R17 Requirements

Applications/Markets



- Medium pressure hydraulic applications
- Agricultural equipment

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| R604 | 1/4 | 6 | .53 | 13 | 3000 | 20.7 | 2.00 | 51 | 28 | .11 | .16 | HY*** |
| R606 | 3/8 | 10 | .69 | 18 | 3000 | 20.7 | 2.50 | 64 | 28 | .20 | .30 | 58/HY*** |
| R608 | 1/2 | 13 | .84 | 21 | 3000 | 20.7 | 3.50 | 89 | 28 | .27 | .40 | 58/HY*** |
| R610* | 5/8 | 16 | 1.09 | 28 | 3000 | 20.7 | 4.00 | 102 | 28 | .51 | .76 | HY*** |
| R612* | 3/4 | 19 | 1.24 | 31 | 3000 | 20.7 | 4.75 | 121 | 28 | .71 | 1.06 | HY*** |
| R616* | 1 | 25 | 1.55 | 39 | 3000 | 20.7 | 6.00 | 152 | 28 | 1.00 | 1.49 | 43** |

Construction

Tube: Copolyester

Reinforcement: One or two braids of high tensile steel wire

Cover: Abrasion-resistant Nylon Fabric

Operating Parameters

Temperature Range:

(R604 thru R610) -50°F to +250°F (-46°C to +121°C)

(R612 thru R616) -50°F to +212°F (-45°C to +100°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: +2%/-4%

Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

43 Series – (**43 Series Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (**HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

*Two wire braid

M8 – E-Z FLEX™ Hybrid Hose



Features

- Four-spiral wire hose performance in a high tensile two-wire braid construction
- Excellent flexibility
- Consistent long-lengths

Certifications

- Meets or Exceeds SAE 100R12
- MSHA Accepted

Applications/Markets



- High-pressure hydraulic applications typically reserved for spiral wire reinforced hoses

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| M806 | 3/8 | 10 | .76 | 19 | 4,000 | 27.6 | 2.50 | 64 | 28 | .37 | .55 | 43* |
| M808 | 1/2 | 13 | .90 | 23 | 4,000 | 27.6 | 3.50 | 89 | 28 | .46 | .68 | 43* |
| M810 | 5/8 | 16 | 1.07 | 27 | 4,000 | 27.6 | 4.00 | 102 | 28 | .63 | .94 | 43* |

Construction

Tube: Copolyester

Reinforcement: Two braids of high tensile steel wire

Cover: Smooth synthetic rubber

Operating Parameters

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: +2%/-4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

43 Series – (*43 Series Fittings available from Parker Hose Products Division)

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



HTB – Eliminator® Hybrid Hose



Features

- Four-spiral wire hose performance in a high tensile two-wire braid construction
- Excellent flexibility
- Consistent long-lengths

Certifications

- Marine Applications (SAE J1942 listed)
- MSHA Accepted

Applications/Markets



- High-pressure hydraulic applications typically reserved for spiral wire reinforced hoses

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| HTB04 | 1/4 | 6 | .62 | 16 | 7,000 | 48.3 | 4.00 | 102 | 28 | .27 | .40 | HY** |
| HTB06 | 3/8 | 10 | .76 | 19 | 5,500 | 37.9 | 6.00 | 152 | 28 | .37 | .55 | 43*** |
| HTB08 | 1/2 | 13 | .90 | 23 | 5,000 | 34.5 | 7.00 | 178 | 28 | .46 | .68 | 43*** |
| HTB10 | 5/8 | 16 | 1.03 | 26 | 4,000 | 27.6 | 8.00 | 203 | 28 | .52 | .77 | 43*** |
| HTB12 | 3/4 | 20 | 1.20 | 30 | 4,000 | 27.6 | 9.50 | 241 | 28 | .73 | 1.09 | 43*** |
| HTB16 | 1 | 25 | 1.50 | 38 | 3,500 | 24.1 | 12.00 | 305 | 28 | 1.01 | 1.50 | 43*** |

Construction

Tube: Copolyester

Reinforcement: Two braids of high tensile steel wire

Cover: Smooth synthetic rubber

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: +2%/-4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

43 Series – (**43 Series Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (**HY Fittings available from Parker Hose Products Division)

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

HTB04 cover must be skived prior to fitting attachment

HJK – Highjack® Jackline Hybrid Hose



Features

- 10,000 PSI Jack Hose

Certifications

- MSHA Accepted
- Meets I J-100 Requirements

Applications/Markets



- Used for high pressure jackline applications
- Not for high impulse applications

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. |
| HJK04 | 1/4 | 6 | .62 | 16 | 10,000 | 69 | 4.0 | 102 | 28 | .27 | .40 |

Construction

Tube: Copolyester

Reinforcement: Two braids of High Tensile Wire

Cover: Smooth synthetic rubber

Operating Parameters

Temperature Range:

-40°F to +150°F (-40°C to +65°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 3x Max. Working Pressure at 73°F (23°C)

Fittings

HY Series – pg. E-87 (HY Fittings available from Parker Hose Products Division)

Connection configurations limited to:

-Male Pipe (01)

Colors

- Black

Notes

Factory-made assemblies only

560 – General Hydraulic Hose



Features

- Twin or multi-line available. Lighter and smaller than 100R1 with longer lengths
- Fast response hose
- Polyurethane cover for best abrasion resistance

Certifications

- Meets or Exceeds SAE 100R1
- MSHA Accepted

Applications/Markets



- Hydraulic circuits and systems wherever 100R1 hose is specified
- Most synthetic hydraulic fluids, water and wide range of chemicals, industrial equipment, machine tools

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 560-3 | 3/16 | 5 | .44 | 11 | 3,500 | 24.1 | 0.75 | 19 | 28 | .07 | .11 | 55 |
| 560-4 | 1/4 | 6 | .51 | 13 | 3,250 | 22.4 | 1.75 | 44 | 28 | .10 | .15 | 55 |
| 560-5 | 5/16 | 8 | .58 | 15 | 3,000 | 20.7 | 2.00 | 51 | 28 | .12 | .19 | 55 |
| 560-6 | 3/8 | 10 | .65 | 17 | 2,750 | 19.0 | 2.25 | 57 | 28 | .15 | .22 | 55 |
| 560-8 | 1/2 | 13 | .81 | 21 | 2,500 | 17.2 | 3.25 | 83 | 28 | .20 | .30 | 55 |
| 560-10 | 5/8 | 16 | .94 | 24 | 2,000 | 13.8 | 6.00 | 152 | 28 | .30 | .44 | 55 |
| 560-12 | 3/4 | 19 | 1.13 | 29 | 1,750 | 12.1 | 7.00 | 178 | 28 | .41 | .61 | 58 |

Construction

Tube: Copolyester

Reinforcement: High tensile steel wire braid

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

58 Series – pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Non-perforated cover

563 – General Hydraulic Hose



Features

- Polyurethane cover for best abrasion resistance

Certifications

- Meets or Exceeds SAE 100R17
- MSHA Accepted

Applications/Markets



- Industrial medium pressure hydraulic hose for use with petroleum, water base and synthetic hydraulic fluids, gases and some solvents and chemical solutions

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 563-4 | 1/4 | 6 | .49 | 12 | 3,000 | 20.7 | 2.00 | 51 | 28 | .12 | .18 | 55/HY* |
| 563-6 | 3/8 | 10 | .65 | 17 | 3,000 | 20.7 | 2.50 | 64 | 28 | .19 | .28 | 55/HY* |
| 563-8 | 1/2 | 13 | .78 | 20 | 3,000 | 20.7 | 3.50 | 89 | 28 | .29 | .42 | 55/HY* |

Construction

Tube: Copolyester

Reinforcement: High tensile steel wire braid

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +250°F [212°F for size -8]
(-40°C to +121°C) [100°C for size -8]

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Non-perforated cover

590 – General Hydraulic Hose



Features

- Two wire strength, one wire construction, improved bend radius results
- Twin and multi-line available
- Polyurethane cover for best abrasion resistance

Certifications

- Meets or Exceeds SAE 100R2 / 100R16
- MSHA Accepted

Applications/Markets



- Construction equipment, machine tools, hydrostatic transmission, refuse vehicles and agriculture equipment

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F / 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 590-3 | 3/16 | 5 | .44 | 11 | 5,000 | 34.5 | 1.50 | 38 | 28 | .10 | .15 | 55 |
| 590-4 | 1/4 | 6 | .53 | 13 | 5,000 | 34.5 | 1.75 | 44 | 28 | .14 | .21 | 55 |
| 590-6 | 3/8 | 10 | .65 | 17 | 4,000 | 27.6 | 2.25 | 57 | 28 | .20 | .30 | 55 |
| 590-8 | 1/2 | 13 | .78 | 20 | 3,500 | 24.1 | 3.25 | 82 | 28 | .26 | .38 | 55 |
| 590-10 | 5/8 | 16 | .98 | 25 | 3,000 | 20.7 | 6.00 | 152 | 28 | .39 | .57 | 58 |
| 590-12 | 3/4 | 19 | 1.11 | 28 | 2,500 | 17.2 | 7.00 | 178 | 28 | .45 | .67 | 58 |
| 590-16 | 1 | 25 | 1.43 | 36 | 2,000 | 13.8 | 8.00 | 203 | 28 | .59 | .88 | 58 |

Construction

Tube: Copolyester

Reinforcement: Aramid fiber, high tensile wire braid

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

58 Series – pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Non-perforated cover

593 – General Hydraulic Hose



Features

- Works with synthetic hydraulic fluids, water and a range of chemicals
- Two wire strength with one braid flexibility
- Polyurethane cover for best abrasion resistance

Certifications

- Meets or Exceeds SAE 100R2 Pressure Requirements
- MSHA Accepted

Applications/Markets



- General hydraulic service

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Vac. Rating Hg./73°F | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------|----------|----------------------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | inch | |
| 593-12 | 3/4 | 20 | 1.10 | 28 | 3000 | 20.7 | 7.00 | 178 | .47 | .70 | 28 | LV |
| 593-16 | 1 | 25 | 1.45 | 37 | 3250 | 22.4 | 8.00 | 203 | .69 | 1.02 | 28 | LV |

Construction

Tube: 12 – Copolyester ,16 – Nylon

Reinforcement: High tensile steel wire braid

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

(Size -12 only limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

LV Series – pg. E-104

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Non-perforated cover

510A – Refrigerant Hose



Features

- Excellent impulse life
- Compatible with most common hydraulic and refrigeration fluids

Certifications

- Meets or Exceeds SAE 100R7 except -2
- MSHA Accepted except -4, -5, -6

Applications/Markets



- Medium pressure service for both field attachable and permanent fittings
- Used with most common refrigerants

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/23°C | | Minimum Bend Radius | | Weight | | Vac. Rating Hg./73°F | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|----|--------------|----|---------------------------------------|------|---------------------|-----|----------|----------|-------------------------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | inch | | |
| 510A-2 | 1/8 | 3 | .34 | 9 | 2,500 | 17.2 | 0.50 | 13 | .03 | .05 | 28 | 57 | – |
| 510A-3 | 3/16 | 5 | .43 | 11 | 3,000 | 20.7 | 2.00 | 51 | .05 | .07 | 28 | 55 | 51 |
| 510A-4 | 1/4 | 6 | .47 | 12 | 2,750 | 19.0 | 2.50 | 64 | .05 | .08 | 28 | 55 | 51 |
| 510A-5 | 5/16 | 8 | .57 | 14 | 2,500 | 17.2 | 3.00 | 76 | .08 | .12 | 28 | 55 | 51 |
| 510A-6 | 3/8 | 10 | .64 | 16 | 2,250 | 15.5 | 4.00 | 102 | .08 | .13 | 28 | 55 | 51 |
| 510A-8 | 1/2 | 13 | .81 | 21 | 2,000 | 13.8 | 5.50 | 140 | .13 | .20 | 28 | 55 | 51 |
| 510A-12 | 3/4 | 19 | 1.10 | 28 | 1,250 | 8.6 | 7.50 | 191 | .19 | .29 | 28 | – | 51 |
| 510A-16 | 1 | 25 | 1.40 | 36 | 1,000 | 6.9 | 10.00 | 254 | .28 | .41 | 28 | – | 51 |

Construction

Tube: Proprietary nylon blend

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

Change in working length @ Rated WPSI: ±3%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

51 Series – pg. E-5

55 Series – pg. E-12

57 Series – pg. E-37

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Perforated cover

51 Series field attachable couplings are not intended for use on hose that has previously been in service

510C – General Hydraulic Hose



Features

- Superior abrasion resistance
- Extreme flexibility
- Medium pressure service for permanent and field attachable fittings

Certifications

- Meets or Exceeds SAE 100R7 except -2
- MSHA Accepted except -4

Applications/Markets



- Medium pressure service for both field attachable and permanent fittings

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Vac. Rating Hg./73°F | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|----------|----------|-------------------------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | inch | | |
| 510C-2 | 1/8 | 3 | .34 | 9 | 2,500 | 17.2 | 0.50 | 13 | .03 | .05 | 28 | 57 | – |
| 510C-3* | 3/16 | 5 | .43 | 11 | 3,250 | 22.4 | 0.75 | 19 | .05 | .07 | 28 | 55 | 51 |
| 510C-4* | 1/4 | 6 | .47 | 12 | 3,000 | 20.7 | 1.50 | 38 | .05 | .08 | 28 | 55 | 51 |
| 510C-5 | 5/16 | 8 | .57 | 14 | 2,500 | 17.2 | 1.75 | 44 | .08 | .11 | 28 | 55 | 51 |
| 510C-6 | 3/8 | 10 | .64 | 16 | 2,250 | 15.5 | 2.00 | 51 | .10 | .14 | 28 | 55 | 51 |
| 510C-8 | 1/2 | 13 | .81 | 21 | 2,250 | 15.5 | 3.00 | 76 | .15 | .22 | 28 | 55 | 51 |
| 510C-10 | 5/8 | 16 | .97 | 25 | 1,500 | 10.3 | 4.00 | 102 | .20 | .29 | 28 | 58 | – |
| 510C-12 | 3/4 | 19 | 1.09 | 28 | 1,250 | 8.6 | 5.00 | 127 | .21 | .31 | 28 | 55 | 51 |
| 510C-16 | 1 | 25 | 1.32 | 34 | 1,000 | 6.9 | 8.00 | 203 | .27 | .40 | 28 | 55 | 51 |

Construction

Tube: Copolyester

Reinforcement: Fiber

Cover: Proprietary Blend (PFX)

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

51 Series – pg. E-5

55 Series – pg. E-12

57 Series – pg. E-37

58 Series – pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Perforated cover

*3/16" and 1/4" working pressure reduced to 3,000 and 2,750 PSI respectively when using field attachable couplings

51 Series field attachable couplings are not intended for use on hose that has previously been in service

For detailed ordering information, please consult price list or contact Parflex® Division.

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A-35

518C – Non-Conductive Hose



Features

- Twin or multi-line constructions available
- High density braid for maximum impulse life without loss of flexibility

Certifications

- Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per ft.
- Meets or exceeds SAE 100R7 specifications and Electrical Standards except 518C-2 with respect to Maximum working pressure
- ANSI A92.2

Applications/Markets



- Medium pressure hydraulic service where both field attachable and permanent hydraulic circuit exposure and contact with high voltage may be encountered

| Part Number | Nominal I.D. | | Maximum O.D. | | ANSI A92.2 Max. Working Pressure 73°F/ 23°C | | SAE 100R7 Max. Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|----|--------------|----|---------------------------------------------|------|--------------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| 518C-2 | 1/8 | 3 | .34 | 9 | 3,150 | 21.7 | 2,500 | 17.2 | 0.50 | 13 | 28 | .03 | .05 | 57 | – |
| 518C-3* | 3/16 | 5 | .43 | 11 | 3,250 | 22.4 | 3,250 | 20.7 | 0.75 | 19 | 28 | .05 | .07 | 55 | 51 |
| 518C-4* | 1/4 | 6 | .47 | 12 | 3,150 | 21.7 | 3,000 | 19.0 | 1.50 | 38 | 28 | .05 | .08 | 55 | 51 |
| 518C-5 | 5/16 | 8 | .57 | 14 | 3,150 | 21.7 | 2,500 | 17.2 | 1.75 | 44 | 28 | .08 | .11 | 55 | 51 |
| 518C-6 | 3/8 | 10 | .64 | 16 | 3,000 | 20.7 | 2,250 | 15.5 | 2.00 | 51 | 28 | .10 | .14 | 55 | 51 |
| 518C-8 | 1/2 | 13 | .81 | 21 | 3,000 | 20.7 | 2,250 | 15.5 | 3.00 | 76 | 28 | .15 | .22 | 55 | 51 |
| 518C-10 | 5/8 | 16 | .97 | 25 | 2,000 | 13.8 | 1,500 | 10.3 | 4.00 | 102 | 28 | .20 | .29 | 58 | – |
| 518C-12 | 3/4 | 19 | 1.09 | 28 | 1,660 | 11.5 | 1,250 | 8.6 | 5.00 | 127 | 28 | .21 | .31 | 55 | 51 |
| 518C-16 | 1 | 25 | 1.32 | 34 | 1,330 | 9.2 | 1,000 | 6.9 | 8.00 | 203 | 28 | .27 | .40 | 55 | 51 |

Construction

Tube: Copolyester

Reinforcement: Fiber

Cover: Proprietary Blend (PFX)

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure:

4:1 Design Factor is required if hose failure will result in movement of aerial device

3:1 Design Factor is acceptable if hose failure will not result in movement of aerial device

Operating Parameters (cont.)

SAE requires 4:1 Design Factor

Colors

- Orange

Fittings

51 Series – pg. E-5 55 Series – pg. E-12

57 Series – pg. E-37 58 Series – pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Non-perforated cover

Lay lines on this hose will have both ANSI and SAE maximum working pressure listed. ANSI A92.2-1990 "Vehicle Mounted Elevating and Rotating Aerial Devices"

*3/16" and 1/4" working pressure reduced to 3,000 and 2,750 PSI respectively when using field attachable couplings

51 Series field attachable couplings are not intended for use on hose that has previously been in service

515H – Compact/Light Weight Hose



Features

- Twin or multi-line available
- Compact OD, lightweight, flexible
- Special order colors for system color coding

Certifications

- MSHA Accepted

Applications/Markets



- Hydraulic and pneumatic systems where a small O.D. hose is necessary
- Pilot lines
- Joystick controls

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 515H-3* | 3/16 | 5 | .34 | 9 | 2,175 | 15.0 | 0.75 | 19 | 28 | .03 | .04 | 54 |
| 515H-4 | 1/4 | 6 | .41 | 10 | 2,000 | 13.8 | 1.50 | 38 | 28 | .04 | .05 | 54 |
| 515H-5* | 5/16 | 8 | .49 | 12 | 1,750 | 12.0 | 1.75 | 44 | 28 | .05 | .07 | 54 |
| 515H-6 | 3/8 | 10 | .56 | 14 | 1,500 | 10.3 | 2.00 | 51 | 28 | .05 | .08 | 54 |
| 515H-8* | 1/2 | 13 | .71 | 18 | 1,500 | 10.3 | 3.00 | 76 | 28 | .11 | .16 | 54 |

Construction

Tube: Copolyester
Reinforcement: Fiber
Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

54 Series – pg. E-8

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

*Factory-made assemblies only -3, -5 and -8
Approved with rapid assembly fitting system

520N/528N – General Hydraulic Hose



Features

- Twin and multi-line available
- Fast response, lighter and smaller O.D. than 100R2 hose

Certifications

- Meets or Exceeds SAE 100R8
- 520N MSHA Accepted
- 528N Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per foot

Applications/Markets



- Hydraulic and pneumatic circuits and systems
- Ideal in hot water applications
- Not suggested for use in over-the-sheave (pulley system) applications

| Part Number | | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|----------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Non-Conductive | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 520N-3 | 528N-3 | 3/16 | 5 | .43 | 11 | 5,000 | 34.5 | 1.50 | 38 | 28 | .05 | .07 | 55 |
| 520N-4 | 528N-4 | 1/4 | 6 | .51 | 13 | 5,000 | 34.5 | 2.00 | 51 | 28 | .07 | .10 | 55 |
| 520N-5 | 528N-5 | 5/16 | 8 | .57 | 14 | 4,500 | 31.0 | 2.50 | 64 | 28 | .08 | .12 | 55 |
| 520N-6 | 528N-6 | 3/8 | 10 | .65 | 17 | 4,000 | 27.6 | 2.50 | 64 | 28 | .08 | .13 | 55 |
| 520N-8 | 528N-8 | 1/2 | 13 | .81 | 21 | 3,500 | 24.1 | 4.00 | 102 | 28 | .14 | .20 | 55 |
| 520N-10 | 528N-10 | 5/8 | 16 | .92 | 23 | 2,750 | 19.0 | 6.00 | 152 | 28 | .17 | .25 | 55 |

Construction

Tube: Nylon

Reinforcement: Aramid fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

● Black

● Orange (Non-Conductive)

Notes

Perforated cover - 520N

Non-Perforated cover - 528N

526BA – Breathing Air Refill Hose



Features

- 6000 PSI Constant Pressure

Certifications (Complies with:)

- CGA G7.1-1997 Grade E Breathing Air Standards
- NFPA 1901

Applications/Markets



- Integrated containment fill stations
- Mobile and stationary systems with or without cascade controls
- Mobile trailer/truck systems
- Portable SCBA fill

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 526BA-3 | 3/16 | 5 | .42 | 11 | 6,000 | 41.4 | 1.50 | 38 | 28 | .05 | .07 | 55 |
| 526BA-4 | 1/4 | 6 | .50 | 13 | 6,000 | 41.4 | 2.00 | 51 | 28 | .07 | .10 | 55 |
| 526BA-6 | 3/8 | 10 | .64 | 16 | 6,000 | 41.4 | 3.00 | 76 | 28 | .09 | .13 | 55 |

Construction

Tube: Nylon

Reinforcement: Aramid fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +180°F (-40°C to +82°C)

Change in working length @ Rated WPSI: ±2% Max.

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Gray

Notes

Perforated cover

Not for use as part of a SCBA systems

This hose is not for use between a pressure reducing regulator and breathing mask

For fitting attachment lubricate only with water or non-toxic lubricant. Do not assemble with petroleum or hydrocarbon based lubricants. Do not flush with solvents of any kind

This hose does not contain a conductive element; therefore, it should not be used with explosive gases such as pure oxygen and hydrogen

Hose is compliant with CGA Grade E Breathing Air Standards, however air quality is dependent upon all system components

527BA – Breathing Air Refill Hose



Features

- 7000 PSI constant pressure

Certifications (Complies with:)

- CGA G7.1-1997 Grade E Breathing Air Standards
- NFPA 1901

Applications/Markets



- Integrated containment fill stations
- Mobile and stationary systems with or without cascade controls
- Mobile trailer/truck systems
- Portable SCBA fill

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 527BA-3 | 3/16 | 5 | .43 | 11 | 7,000 | 48.3 | 1.50 | 38 | 28 | .05 | .07 | 55 |
| 527BA-4 | 1/4 | 6 | .52 | 13 | 7,000 | 48.3 | 2.00 | 51 | 28 | .07 | .11 | 55 |

Construction

Tube: Nylon

Reinforcement: Aramid fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +180°F (-40°C to +82°C)

Change in working length @ Rated WPSI: ±2% Max.

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

Connection configurations limited to:

- Male Pipe (01)
- Female Pipe (02)
- Male JIC (03, 3E)
- Female JIC Swivel (06, 37, 39, 41, L9)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Blue

Notes

Perforated cover

Not for use as part of a SCBA systems

This hose is not for use between a pressure reducing regulator and breathing mask

For fitting attachment lubricate only with water or non-toxic lubricant. Do not assemble with petroleum or hydrocarbon based lubricants. Do not flush with solvents of any kind

This hose does not contain a conductive element; therefore, it should not be used with explosive gases such as pure oxygen and hydrogen

Hose is compliant with CGA Grade E Breathing Air Standards, however air quality is dependent upon all system components



For detailed ordering information, please consult price list or contact Parflex® Division.

53DM/538DM – DuraMax™ Low Temperature



Features

- Matte jacket for low coefficient of friction
- Superior flexibility in cold temperature applications
- Better bend radius than SAE J517 and 100R7
- Smaller O.D.s than 100R7 and 100R18
- 3000 PSI constant pressure

Certifications

- Meets or Exceeds SAE 100R18
- 538DM Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per foot

Applications/Markets



- Excellent over-the-sheave in lift truck applications
- Cold storage or refrigerated areas
- Construction and agriculture equipment in cold climate
- 53DM-12 Not suggested for use in over-the-sheave (pulley system) applications

| Part Number | | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|----------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Non-Conductive | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 53DM-3 | 538DM-3 | 3/16 | 5 | .43 | 11 | 3,000 | 20.7 | 1.00 | 25 | 28 | .06 | .08 | 55 |
| 53DM-4 | 538DM-4 | 1/4 | 6 | .49 | 12 | 3,000 | 20.7 | 1.25 | 32 | 28 | .07 | .10 | 55/HY* |
| 53DM-5 | 538DM-5 | 5/16 | 8 | .60 | 15 | 3,000 | 20.7 | 2.00 | 51 | 28 | .10 | .15 | 58/HY* |
| 53DM-6 | 538DM-6 | 3/8 | 10 | .66 | 17 | 3,000 | 20.7 | 2.00 | 51 | 28 | .11 | .16 | 55/58/HY* |
| 53DM-8 | 538DM-8 | 1/2 | 13 | .84 | 21 | 3,000 | 20.7 | 3.50 | 89 | 28 | .17 | .26 | 55/58/HY* |
| 53DM-10 | 538DM-10 | 5/8 | 16 | 1.03 | 26 | 3,000 | 20.7 | 4.00 | 102 | 28 | .22 | .33 | 58 |
| 53DM-12 | - | 3/4 | 19 | 1.13 | 29 | 3,000 | 20.7 | 6.50 | 165 | 28 | .26 | .39 | 58H |

Construction

Tube: Copolyester
Reinforcement: Fiber
Cover: Copolyester

Operating Parameters

Temperature Range:

-70°F to +212°F (-57°C to +100°C)

For use with water and water-based hydraulic fluids to +135°F (+57°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12 58 Series – pg. E-12

58H Series – pg. E-41

HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

● Black

● Orange (Non-Conductive)

Notes

Perforated cover - 53DM

Non-perforated cover - 538DM

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



A-41

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

540N – General Hydraulic Hose



Features

- Matte jacket for low coefficient of friction
- Special order colors
- Twin or multi-line available
- Excellent chemical compatibility
- Greater range of fluid compatibility than SAE 100R1 hose

Certifications

- Meets or Exceeds SAE 100R7
- MSHA Accepted

Applications/Markets



- Hydraulic and pneumatic systems, agricultural spraying, polyurethane foam mixers, robotics, fire-resistant fluid and hot water

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 540N-2 | 1/8 | 3 | .34 | 9 | 3,000 | 20.7 | 0.50 | 13 | 28 | .03 | .05 | 57 |
| 540N-3 | 3/16 | 5 | .44 | 11 | 3,000 | 20.7 | 0.75 | 19 | 28 | .04 | .06 | 55 |
| 540N-4 | 1/4 | 6 | .50 | 13 | 2,750 | 19.0 | 1.50 | 38 | 28 | .07 | .10 | 55 |
| 540N-5 | 5/16 | 8 | .58 | 15 | 2,500 | 17.2 | 1.75 | 44 | 28 | .07 | .10 | 55 |
| 540N-6 | 3/8 | 10 | .65 | 17 | 2,250 | 15.5 | 2.00 | 51 | 28 | .09 | .13 | 55 |
| 540N-8 | 1/2 | 13 | .81 | 21 | 2,000 | 13.8 | 3.00 | 76 | 28 | .13 | .19 | 55 |
| 540N-12 | 3/4 | 19 | 1.05 | 27 | 1,250 | 8.6 | 6.00 | 152 | 28 | .17 | .25 | 55 |

Construction

Tube: Nylon

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

57 Series – pg. E-37

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Perforated cover

540P – Specialty Water Hose



Features

- Plasticizer free non-leaching core tube
- Low-moisture permeability

Certifications

- Meets or Exceeds SAE 100R7
- Core tube compliant with FDA Title 21 & NSF 51

Applications/Markets



- Potable water delivery to remote sites
- Distilled and de-ionized water

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 540P-4 | 1/4 | 6 | .50 | 13 | 2,750 | 19.0 | 1.25 | 32 | 28 | .05 | .08 | 55 |
| 540P-6 | 3/8 | 10 | .65 | 17 | 2,250 | 15.5 | 2.00 | 51 | 28 | .09 | .13 | 55 |
| 540P-8 | 1/2 | 13 | .81 | 21 | 2,000 | 13.8 | 3.00 | 76 | 28 | .13 | .19 | 55 |
| 540P-12 | 3/4 | 19 | 1.05 | 27 | 1,250 | 8.6 | 5.00 | 127 | 28 | .19 | .28 | 55 |

Construction

Tube: Polyethylene
Reinforcement: Fiber
Cover: Polyurethane

Operating Parameters

Temperature Range:
-40°F to +150°F (-40°C to +66°C)
Change in working length @ Rated WPSI: ±2%
Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12
For Crimp Die Selection charts see pgs. G-30 : G-41
Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

● Aqua

Notes

Perforated cover

55LT – Low Temperature Hose



Features

- Twin and multi-line available
- Superior flexibility in cold temperature applications

Certifications

- Meets or Exceeds SAE 100R7

Applications/Markets



- Hydraulic systems exposed to very low temperatures
- Excellent over-the-sheave in lift truck applications
- Cold storage or refrigerated areas
- Construction and agriculture equipment in cold climates

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 55LT-2 | 1/8 | 3 | .34 | 9 | 3,000 | 20.7 | 0.50 | 13 | 28 | .03 | .05 | 57 |
| 55LT-3 | 3/16 | 5 | .43 | 11 | 3,250 | 22.4 | 0.75 | 19 | 28 | .05 | .08 | 55 |
| 55LT-4 | 1/4 | 6 | .51 | 13 | 3,000 | 20.7 | 1.25 | 32 | 28 | .07 | .10 | 55 |
| 55LT-5 | 5/16 | 8 | .57 | 14 | 2,500 | 17.2 | 1.75 | 44 | 28 | .09 | .13 | 55 |
| 55LT-6 | 3/8 | 10 | .66 | 17 | 2,250 | 15.5 | 2.00 | 51 | 28 | .10 | .14 | 55 |
| 55LT-8 | 1/2 | 13 | .81 | 21 | 2,000 | 13.8 | 3.00 | 76 | 28 | .14 | .21 | 55 |
| 55LT-12 | 3/4 | 19 | 1.09 | 28 | 1,250 | 8.6 | 5.00 | 127 | 28 | .21 | .31 | 55 |

Construction

Tube: Copolyester
Reinforcement: Fiber
Cover: Copolyester

Operating Parameters

Temperature Range:

-70°F to +212°F (-57°C to +100°C)

For use with water and water-based hydraulic fluids
to +135°F (+57°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

57 Series – pg. E-37

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Perforated cover

56DH/568DH – Diagnostic Hose



Features

- Twin or multi-line available
- Compact OD, lightweight, flexible

Certifications

- MSHA Accepted for -2 only

Applications/Markets



- Hydraulic and pneumatic systems where a small O.D. hose is necessary
- Diagnostic equipment

| Part Number | | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Permanent Fitting Series |
|-------------|----------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|----------|----------|--------------------------|
| # | # | | | | | | | | | | | |
| Natural | Non-Conductive | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | |
| 56DH-1.5 | 568DH-1.5 | .09 | 2 | .20 | 5 | 6,000 | 41.4 | 0.25 | 6 | .02 | .01 | SF |
| 56DH-2 | 568DH-2 | .14 | 4 | .32 | 8 | 6,000 | 41.4 | 0.50 | 13 | .03 | .05 | CY |

Construction

Tube: Nylon

Reinforcement: Aramid fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +200°F (-40°C to +93°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

CY Series – pg. E-81

SF Series – pg. E-85

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

● Black

● Orange (Non-Conductive)

Notes

Perforated cover - 56DH

Non-Perforated cover - 568DH

573X – Fast Response Hose



Features

- Fast response even over longer lengths
- 3000 PSI constant pressure

Certifications

- MSHA Accepted -3 only

Applications/Markets



- Marine, offshore drilling
- Applications requiring fast and accurate response time

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 573X-3 | 3/16 | 5 | .34 | 9 | 3,000 | 20.7 | 2.00 | 51 | 28 | .03 | .04 | LV |
| 573X-16 | 1 | 25 | 1.46 | 37 | 3,000 | 20.7 | 10.00 | 254 | 28 | .41 | .60 | LV |

Construction

Tube: Nylon

Reinforcement: Aramid fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +200°F (-40°C to +93°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

LV Series – pg. E-104

Colors

- Black

Notes

Non-perforated cover

Factory-made assemblies only

575X – Fast Response Hose



Features

- Fast response even over longer lengths
- 5000 PSI constant pressure

Certifications

- MSHA Accepted

Applications/Markets



- Marine, offshore drilling
- Applications requiring fast and accurate response time

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 575X-3 | 3/16 | 5 | .43 | 11 | 5,000 | 34.5 | 1.50 | 38 | 28 | .05 | .07 | 55 |
| 575X-4 | 1/4 | 6 | .51 | 13 | 5,000 | 34.5 | 2.00 | 51 | 28 | .07 | .10 | 55 |
| 575X-6 | 3/8 | 10 | .64 | 16 | 5,000 | 34.5 | 3.00 | 76 | 28 | .09 | .13 | 55 |
| 575X-8 | 1/2 | 13 | .81 | 21 | 5,000 | 34.5 | 4.00 | 102 | 28 | .14 | .21 | 55 |
| 575X-12 | 3/4 | 19 | 1.15 | 29 | 5,000 | 34.5 | 8.00 | 203 | 28 | .24 | .36 | 58H |
| 575X-16 | 1 | 25 | 1.59 | 40 | 5,000 | 34.5 | 10.00 | 254 | 28 | .36 | .54 | 58H |

Construction

Tube: Nylon
Reinforcement: Fiber
Cover: Polyurethane

Operating Parameters

Temperature Range:
-40°F to +212°F (-40°C to +100°C)
Change in working length @ Rated WPSI: ±2%
Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12
58H Series – pg. E-41
For Crimp Die Selection charts see pgs. G-30 : G-41
Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Non-perforated cover

580N/H580N/588N – High Pressure Hose



Features

- Twin and multi-line available
- Lighter weight and smaller O.D. than 100R2

Certifications

- Meets or Exceeds SAE 100R8 specifications
- 580N MSHA Approved
- 588N Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per foot

Applications/Markets



- Hydraulic and pneumatic circuits and systems
- Replaces 100R2 rubber hose wherever greater flexibility, fluid compatibility, and cover durability are required

| Part Number | | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|----------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Non-Conductive | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 580N-4 | 588N-4 | 1/4 | 6 | .62 | 16 | 5,000 | 34.5 | 2.00 | 51 | 28 | .11 | .16 | 58 |
| 580N-6 | 588N-6 | 3/8 | 10 | .77 | 20 | 4,000 | 27.6 | 2.50 | 64 | 28 | .15 | .22 | 58 |
| 580N-8 | 588N-8 | 1/2 | 13 | .89 | 23 | 3,500 | 24.1 | 4.00 | 102 | 28 | .21 | .31 | 58 |
| 580N-10 | 588N-10 | 5/8 | 16 | .98 | 25 | 2,750 | 19.0 | 6.00 | 152 | 28 | .21 | .31 | 58 |
| 580N-12 | 588N-12 | 3/4 | 19 | 1.15 | 29 | 2,250 | 15.5 | 8.00 | 203 | 28 | .23 | .35 | 58 |
| 580N-16 | 588N-16 | 1 | 25 | 1.47 | 37 | 2,000 | 13.8 | 10.00 | 254 | 28 | .38 | .56 | 58 |
| H580N-16* | - | 1 | 25 | 1.58 | 40 | 3,000 | 20.7 | 10.00 | 254 | 28 | .53 | .79 | 58H |

Construction

Tube: Nylon

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

58H Series – pg. E-41

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

● Black

● Orange (Non-Conductive)

Notes

Perforated cover - 580N

*Non-Perforated cover -588N, H580N-16

83FR – DuraGard™ General Purpose Polyurethane



Features

- Weld spatter resistant
- Excellent abrasion resistance
- Extreme flexibility
- Compact bend radius
- Specially formulated polyurethane tube
- Twin-line or multi-line constructions available

Certifications

- MSHA Accepted
- Non-conductive per SAEJ343 test procedures for thermoplastic hose
- UL94HB compliant

Applications/Markets



- General purpose air and water hose often used in robotic welding applications

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | PushLok Fitting* |
|-------------|--------------|----|--------------|----|-------------------------------------|-----|---------------------|----|----------------------|----------|----------|--------------------------|------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| 83FR-4 | 1/4 | 6 | .48 | 12 | 300 | 2.1 | 1.00 | 25 | 28 | .05 | .07 | 55/HY** | 82* |
| 83FR-6 | 3/8 | 10 | .60 | 15 | 300 | 2.1 | 2.00 | 51 | 28 | .08 | .11 | 55/HY** | 82* |
| 83FR-8 | 1/2 | 13 | .76 | 19 | 300 | 2.1 | 2.50 | 64 | 28 | .12 | .17 | 55/HY** | 82* |
| 83FR-12 | 3/4 | 19 | 1.04 | 26 | 300 | 2.1 | 3.50 | 89 | 28 | .19 | .28 | 55/HY** | 82* |

Construction

Tube: Specially formulated polyurethane

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-20°F to +200°F (-29°C to +93°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

82 Series – (*82 Series Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (**HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black (BLK)
- Blue (BLU)
- Brown (BRN)
- Green (GRN)
- Gray (GRA)
- Red (RED)

Notes

*Temperature and pressure reduced with 82 series

Push-Lok Fitting:

-20°F to +145°F (-29°C to +63°C)

175 PSI maximum working pressure

Non-perforated cover

1035A – Power Cleaning



Features

- Non-marring
- Extremely flexible

Applications/Markets



- Pressure washers (low pressure)
- Carpet cleaning

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 1035A-4 | 1/4 | 6 | .51 | 13 | 1,500 | 10.3 | .63 | 16 | 28 | .08 | .13 | 55 |
| 1035A-6 | 3/8 | 10 | .62 | 16 | 1,200 | 8.3 | .88 | 22 | 28 | .10 | .15 | 55 |

Construction

Tube: Special PFX compound

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-25°F to +212°F (-32°C to +100°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Blue

Notes

Perforated cover

No chlorinated solvents should be used

HBR (Hose Bend Restrictor) suggested for carpet cleaning applications - See Hose Guard in Tooling Equipment and Accessories Section

1035HT – High Temperature Power Cleaning



Features

- Non-marring
- Broad temperature range

Applications/Markets



- Pressure washers (low pressure, high temperature)
- Carpet cleaning

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 1035HT-3 | 3/16 | 5 | .43 | 11 | 2,000 | 13.8 | 0.75 | 19 | 28 | .04 | .06 | 55 |
| 1035HT-4 | 1/4 | 6 | .50 | 13 | 1,750 | 12.1 | 1.50 | 38 | 28 | .06 | .08 | 55 |
| 1035HT-6 | 3/8 | 10 | .65 | 17 | 1,500 | 10.3 | 2.00 | 51 | 28 | .09 | .13 | 55 |

Construction

Tube: Nylon
Reinforcement: Fiber
Cover: Polyurethane

Operating Parameters

Temperature Range:
-40°F to +230°F (-40°C to +110°C)
Change in working length @ Rated WPSI: ±2%
Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12
For Crimp Die Selection charts see pgs. G-30 : G-41
Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Yellow

Notes

Perforated cover
No chlorinated solvents should be used
HBR (Hose Bend Restrictor) suggested for carpet cleaning applications - See Hose Guard in Tooling Equipment and Accessories Section pg. F-21

B9 - General Purpose Transfer Hose

Features

- Excellent flexibility



Applications/Markets



- Low pressure transmission of air, oil, water, and coolants

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Vac. Rating Hg./73°F | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|----------|----------|-------------------------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | inch | | |
| B903 | 3/16 | 5 | .39 | 10 | 250 | 1.7 | 1.00 | 25 | .04 | .06 | 28 | 55 | — |
| B904 | 1/4 | 6 | .46 | 12 | 250 | 1.7 | 1.50 | 38 | .05 | .07 | 28 | 55/HY* | 82* |
| B905 | 5/16 | 8 | .55 | 14 | 250 | 1.7 | 2.00 | 51 | .08 | .12 | 28 | 55/HY* | — |
| B906 | 3/8 | 10 | .64 | 16 | 250 | 1.7 | 3.00 | 76 | .09 | .13 | 28 | 55/HY* | 82* |
| B908 | 1/2 | 13 | .78 | 20 | 250 | 1.7 | 3.00 | 76 | .13 | .19 | 28 | 55/HY* | 82* |
| B910 | 5/8 | 16 | .93 | 24 | 250 | 1.7 | 4.00 | 102 | .20 | .30 | 28 | 55/HY* | 82* |

Construction

Tube: Specially formulated polyurethane
 Reinforcement: Fiber
 Cover: Specially formulated polyurethane

HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Operating Parameters

Temperature Range:

-40°F to +200°F (-40° C to +93° C)

(Limited to +130°F (+54°C) for water and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Colors

- Red
- Black (BK)

Notes

*Temperature and pressure reduced with 82 series

Push-Lok Fitting:

-20°F to +100°F (-29°C to +38°C)

100 PSI maximum working pressure

Non-perforated cover

Fittings

55 Series – pg. E-12

82 Series – (*82 Series Fittings available from Parker Hose Products Division)



For detailed ordering information, please consult price list or contact Parflex® Division.

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CNG – Electrically Conductive Compressed Natural Gas Hose



Features

- Twin and multi-line available

Certifications

- Conforms to:
- NFPA 52
- ANSI/IAS NGV 4.2-1999
- CSA12.52-M99

Applications/Markets



- CNG Dispenser
- Fleet transit
- CNG Fuel transfer
- Residential CNG refueling

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. |
| 5CNG-3 | 3/16 | 5 | .43 | 11 | 5,000 | 34.5 | 1.50 | 38 | 28 | .05 | .07 |
| 5CNG-4 | 1/4 | 6 | .62 | 16 | 5,000 | 34.5 | 2.00 | 51 | 28 | .11 | .16 |
| 5CNG-6 | 3/8 | 10 | .65 | 16 | 5,000 | 34.5 | 3.00 | 76 | 28 | .09 | .13 |
| 5CNG-8 | 1/2 | 13 | .90 | 23 | 5,000 | 34.5 | 4.00 | 102 | 28 | .21 | .31 |
| 5CNG-12 | 3/4 | 19 | 1.15 | 29 | 5,000 | 34.5 | 7.50 | 191 | 28 | .24 | .36 |
| 5CNG-16 | 1 | 25 | 1.59 | 40 | 5,000 | 34.5 | 10.00 | 254 | 28 | .36 | .53 |

Construction

Tube: Electrically conductive nylon

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +180°F (-40°C to +82°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Colors

- Red

Notes

Perforated cover

CNG hose must be assembled at the factory or by a Parflex approved facility

Wire spring guards must be used on ANSI/CSA design certified CNG dispenser hose assembly sizes -3 through -8: single and multi-line bonded assemblies - pg. F-21

Fittings

Factory-made assemblies only

55 Series - pg. E-12

58 Series - pg. E-12

58H Series - pg. E-41

For Crimp Die Selection charts see pgs. G-30 : G-41

For detailed ordering information, please consult price list or contact Parflex® Division.

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A-53

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

HLB – Lubrication Line Hose



Features

- HLB remote lubrication system versus 1/4" rubber hoses can save money per line in reduced component and installation labor costs
- Unique GK bulkhead hose fittings with integrated nipple can save money per zerk connection in unnecessary adapter costs
- Compact 1/8" hoses save hundreds of dollars of waste in your operation by eliminating gallons of unnecessary "in-line" grease versus larger bore rubber hoses

Certifications

- MSHA Accepted

Applications/Markets



- Grease and lubrication lines
- Agriculture
- Construction
- Industrial
- Material handling
- Mobile equipment
- Transportation

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|-----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| HLB02* | 1/8 | 3.2 | .32 | 8 | 3,000 | 20.7 | .50 | 13 | 28 | .03 | .04 | CY | BU |
| HLB03** | 3/16 | 4.8 | .41 | 10 | 3,000 | 20.7 | .75 | 19 | 28 | .06 | .08 | CY | BU |

Construction

Tube: Copolyester
Reinforcement: Fiber
Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C) with CY fittings
(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

BU Series Field Attachable Fitting limited to 120°F

Change in working length @ Rated WPSI: ±3%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

BU Series – pg. E-80

CY Series – pg. E-81

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Not for use as a whip hose on hand-operated grease guns

Bend restrictions are available only for permanent fittings.

HBR (Hose Bend Restrictor) available for Marine Steering Hose Assemblies. See Hose Guard in Tooling Equipment and Accessories Section pg. F-21

*HLB-2 - Guard P.N. CY02-652317

**HLB-3 - Guard P.N. 3CNG-4

MSH – Marine Steering Fast Response Hose



Features

- Fast, accurate response
- Permanent or field attachable
- Salt water, corrosion resistant

Applications/Markets



- Wide range of marine applications
- Marine hydraulic steering systems

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|--------------|----|--------------|----|-------------------------------------|-----|---------------------|----|----------------------|----------|----------|--------------------------|-------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| MSH-5 | 5/16 | 8 | .48 | 12 | 1,000 | 6.9 | 2.25 | 57 | 28 | .05 | .07 | MS | MS |
| MSH-6 | 3/8 | 10 | .59 | 15 | 1,000 | 6.9 | 3.00 | 76 | 28 | .07 | .11 | MS | MS |

Construction

Tube: Nylon

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +200°F (-40°C to +93°C)

(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

MS Series – pg. E-105

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Non-perforated cover

Bend restrictions are available only for permanent fittings.

HBR (Hose Bend Restrictor) available for Marine Steering Hose Assemblies. See Hose Guard in Tooling Equipment and Accessories Section pg. F-21

MSXL – High Pressure Marine Steering Hose



Features

- Fast, accurate response
- Low volumetric expansion
- Salt water, corrosion resistant

Applications/Markets



- Wide range of marine applications
- Marine hydraulic steering systems

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| MSXL-5 | 5/16 | 8 | .50 | 13 | 1,500 | 10.3 | 2.25 | 57 | 28 | .05 | .07 | MS |

Construction

Tube: Nylon

Reinforcement: Fiber

Cover: Polyurethane

Colors

- Black

Notes

Non-perforated cover

HBR (Hose Bend Restrictor) available for Marine Steering Hose Assemblies. See Hose Guard in Tooling Equipment and Accessories Section pg. F-21

Operating Parameters

Temperature Range:

-40°F to +185°F (-40°C to +85°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

MS Series – pg. E-105

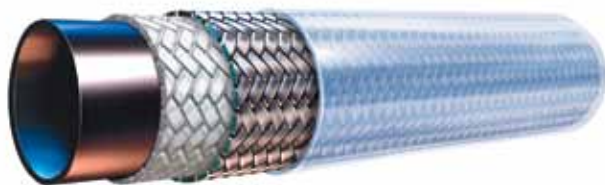
For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource



For detailed ordering information, please consult price list or contact Parflex® Division.

PTH – Marine Power Tilt Hose



Features

- Compact design
- Abrasion resistant polyurethane jacket
- Excellent flexibility
- Corrosion resistant

Applications/Markets



- Power tilt mechanisms for outboard and stern drive engines
- Trim Tab assemblies
- Jack plate assemblies

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Vac. Rating Hg./73°F | Minimum Bend Radius | | | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|----------------------|---------------------|----|--|----------|----------|--------------------------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | inch | mm | | lbs./ft. | kg./mtr. | |
| PTH-3 | 3/16 | 5 | .43 | 11 | 3,000 | 20.7 | 28 | 0.75 | 19 | | .08 | .11 | 92 |

Construction

Tube: Nylon

Reinforcement: Fiber and Stainless Steel braid

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

92 Series – pg. E-65

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

○ Clear

Notes

Non-perforated cover

Also available as custom order with black jacket

S4 – Predator® Hose (Water Jetting/Lateral Cleaning)



Features

- Easily identified lime green cover signifies 4000 PSI constant pressure
- Slim profile and lightweight provide easy handling and routing

Certifications

- NSWMA (National Solid Waste Management Association)
- WASTEC (Waste Equipment Technology Association)
- WEMI (Waste Equipment Management Institute)
- Specifications for repair/inspection procedures for high pressure hose used in conjunction with sewer/catch basin cleaning equipment

Applications/Markets



- High-pressure water equipment for cleaning or debris removal in lateral sewer lines
- Lines provide connection from commercial, industrial or residential structure to the main sewer line located under the streets
- Lateral lines are smaller in diameter than the main lines, and rely more on water pressure than water volume to clear residue and obstructions
- For water/slurry applications, contact Parflex for chemical compatibility/recommendations

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|----------|----------|--------------------------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | |
| S408 | 1/2 | 13 | .89 | 23 | 4,000 | 27.6 | 4.00 | 102 | .20 | .29 | 58/HY* |
| S410 | 5/8 | 16 | 1.06 | 27 | 4,000 | 27.6 | 5.00 | 127 | .32 | .48 | 43** |

Construction

Tube: Gray Copolyester

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +135°F for water (-40°C to +57°C)

Min. Burst Pressure is 2.5x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

43 Series – (**43 Series Fittings available from Parker Hose Products Division)

HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Green

Notes

Available in bulk hose only

Not for use in hydraulic applications

Perforated cover - S410

Non-perforated cover - S408

S5 – Predator® Hose (Water Jetting/Lateral Cleaning)



Features

- Easily identified lime green cover signifies 4000 PSI constant pressure
- Slim profile and lightweight provide easy handling and routing

Certifications

- NSWMA (National Solid Waste Management Association)
- WASTEC (Waste Equipment Technology Association)
- WEMI (Waste Equipment Management Institute)
- Specifications for repair/inspection procedures for high pressure hose used in conjunction with sewer/catch basin cleaning equipment

Applications/Markets



- High-pressure water equipment for cleaning or debris removal in lateral sewer lines
- Lines provide connection from commercial, industrial or residential structure to the main sewer line located under the streets
- Lateral lines are smaller in diameter than the main lines, and rely more on water pressure than water volume to clear residue and obstructions
- For water/slurry applications, contact Parflex for chemical compatibility/recommendations

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|----------|----------|--------------------------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | |
| S508 | 1/2 | 13 | .80 | 20 | 4000 | 27.6 | 4.00 | 102 | .16 | .24 | HY*/55 |

Construction

Tube: Gray Copolyester

Reinforcement: Aramid Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +135°F for water (-40°C to +57°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series – pg. E-12

HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Green

Notes

Available in bulk hose only

S508 product can be mended with a swaged 1HUHY-8-8; HY end connections must be crimped

Not for use in hydraulic applications

Perforated cover

S6 – Predator® Hose (Sewer Cleaning)



Features

- Easily identified orange cover signifies 2500 PSI constant pressure
- Bonded construction provides excellent kink resistance and flexibility

Certifications

- NSWMA (National Solid Waste Management Association)
- WASTEC (Waste Equipment Technology Association)
- WEMI (Waste Equipment Management Institute)
- Specifications for repair/inspection procedures for high pressure hose used in conjunction with sewer/catch basin cleaning equipment

Applications/Markets



- High-pressure and high-volume water equipment for cleaning or debris removal in large sewer lines
- For water/slurry applications, contact Parflex for chemical compatibility/recommendations

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|----------|----------|--------------------------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | |
| S612 | 3/4 | 19 | 1.14 | 29 | 2,500 | 17.2 | 4.00 | 102 | .29 | .43 | 58/SQ/HY* |
| S616 | 1 | 25 | 1.41 | 36 | 2,500 | 17.2 | 6.00 | 152 | .38 | .57 | 58/SQ/HY* |
| S620 | 1-1/4 | 32 | 1.78 | 45 | 2,500 | 17.2 | 12.00 | 305 | .61 | .91 | SQ |
| S624 | 1-1/2 | 38 | 2.11 | 54 | 2,500 | 17.2 | 15.00 | 381 | .83 | 1.24 | 71** |

Construction

Tube: Gray Copolyester, S624 – Gray Nylon
Reinforcement: Fiber
Cover: Polyurethane

Colors

● Orange

Notes

Available in bulk hose only
Not for use in hydraulic applications
Perforated cover - S612, S616
Non-perforated cover - S620, S624

Operating Parameters

Temperature Range:
-40°F to +135°F (-40°C to +57°C)
Min. Burst Pressure is 2.5x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12
SQ Series (Swage Only)– pg. E-107
71 Series – (**71 Series Fittings available from Parker Hose Products Division)
HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)
For Crimp Die Selection charts see pgs. G-30 : G-41
Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource



For detailed ordering information, please consult price list or contact Parflex® Division.

S9 – Predator® Hose (Sewer Cleaning)



Features

- Easily identified blue cover signifies 3000 PSI constant pressure
- Bonded construction provides excellent kink resistance and flexibility

Certifications

- NSWMA (National Solid Waste Management Association)
- WASTEC (Waste Equipment Technology Association)
- WEMI (Waste Equipment Management Institute)
- Specifications for repair/inspection procedures for high pressure hose used in conjunction with sewer/catch basin cleaning equipment

Applications/Markets



- High-pressure and high-volume water equipment for cleaning or debris removal in large sewer lines
- For water/slurry applications, contact Parflex for chemical compatibility/recommendations

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------|----------|--------------------------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | lbs./ft. | kg./mtr. | |
| S912 | 3/4 | 19 | 1.15 | 29 | 3,000 | 20.7 | 4.00 | 102 | .30 | .45 | 58/SQ/HY* |
| S916 | 1 | 25 | 1.47 | 37 | 3,000 | 20.7 | 8.00 | 203 | .46 | .68 | 58/SQ/HY* |

Construction

Tube: Gray Copolyester

Reinforcement: Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +135°F for water (-40°C to +57°C)

Min. Burst Pressure is 2.5x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

SQ Series (Swage Only)– pg. E-107

HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Blue

Notes

Available in bulk hose only

Not for use in hydraulic applications

Perforated cover

For detailed ordering information, please consult price list or contact Parflex® Division.

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A-61

Hose
A

Tubing
B

Coiled Air Hose & Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment & Accessories
F

General Technical
G

SLH – Sewer Leader Hose



Features

- Easily identified black cover indicates termination of hose

Certifications

- NSWMA (National Solid Waste Management Association)
- WASTEC (Waste Equipment Technology Association)
- WEMI (Waste Equipment Management Institute)

Applications/Markets



- Leader hose for S4/S5/S6/S9 high-pressure sewer cleaning hose

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| SLH-8 | 1/2 | 13 | 0.77 | 20 | 4,000 | 27.6 | 3.50 | 89 | 28 | .25 | .37 | 58/HY* |
| SLH-10 | 5/8 | 16 | 0.95 | 24 | 4,000 | 27.6 | 4.00 | 102 | 28 | .38 | .57 | HY* |
| SLH-12 | 3/4 | 19 | 1.08 | 27 | 3,000 | 20.7 | 4.80 | 122 | 28 | .45 | .67 | HY* |
| SLH-16 | 1 | 25 | 1.43 | 36 | 3,000 | 20.7 | 6.00 | 152 | 28 | .80 | 1.19 | HY* |

Construction

Tube: Gray Copolyester

Reinforcement: Wire

Cover: Neoprene

Operating Parameters

Temperature Range:

-40°F to +150°F (-40°C to +66°C)

Min. Burst Pressure is 2.5x Max. Working Pressure at 73°F (23°C)

Fittings

58 Series – pg. E-12

HY Series – pg. E-87 (*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Not for use in hydraulic applications

XDH eXtreme™ Duty Hose



Features

- Designed for high volume, repeatable applications in extreme environmental conditions such as high temperatures, complicated routings, and high abrasion areas
- All hoses heat formed into customized routings
- Can be easily routed throughout extreme environments, eliminating the need for metal tubing/hose combinations and multiple connecting points

Certifications

- Meets or Exceeds performance criteria of:
 - SAE J517 100R16
 - SAE J517 100R2
 - SAE J517 100R17
 - SAE J517 100R19

Applications/Markets



- Ideally suited for extreme environmental conditions such as high temperatures, complicated routings, high abrasion and aggressive fluids.

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|----|-------------------------|----------|----------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. |
| XDH-4 | 1/4 | 6 | .43 | 11 | 5,000 | 35 | 2.0 | 50 | 28 | .10 | .14 |
| XDH-6 | 3/8 | 10 | .62 | 16 | 4,000 | 28 | 2.5 | 64 | 28 | .19 | .28 |
| XDH-8 | 1/2 | 13 | .75 | 19 | 4,000 | 28 | 3.5 | 89 | 28 | .25 | .37 |

Construction

Tube: Engineered Thermoplastic
 Reinforcement: Braided Steel wire
 Cover: Engineered Thermoplastic

Operating Parameters

Temperature Range:

-65°F to +300°F (-54°C to +150°C)
 (Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)

Min. Burst Pressure is 4x Max Working Pressure at 73°F (23°C)

Change in working length @ Rated WPSI: +1%/-2%

Fittings

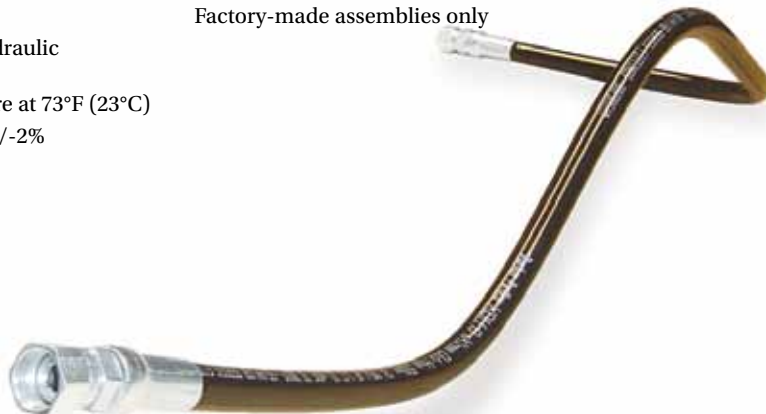
55 Series - pg. E-12

Colors

- Black

Notes

Factory-made assemblies only



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



A-63

Hose
A

Tubing
B

Coiled Air Hose & Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment & Accessories
F

General Technical
G

Duraflex™ Hydraulic Hose Coil



Features

- Bonded twin-line construction
- Self retracting coil design

Certifications

- 528N - Meets or Exceeds SAE 100R8
- 548N - Meets or Exceeds SAE 100R7
- Meet SAE J517 for less than 50 micro-amps leakage under 75,000 volts per foot

Applications/Markets



- Hydraulic tool hose for aerial lift applications
- General hydraulics

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|----|----------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 548N-6 | 3/8 | 10 | .65 | 17 | 2,250 | 15.5 | 2.00 | 51 | 28 | .09 | .13 | 55 |
| 528N-6 | 3/8 | 10 | .65 | 17 | 4,000 | 27.6 | 2.50 | 64 | 28 | .08 | .13 | 55 |

Nomenclature

HC-548N-06MP-06MP-10

Configuration

HC twin-line hose coil
(blank) twin-line straight hose

Hose Type (see specifications below)

548N Med Pressure - straight or coiled
528N High Pressure - straight or coiled

End Connectors

06MP 3/8" Rigid Male Pipe
06FJ 3/8" Female JIC Swivel

Effective Working Length

6 6 foot length
8 8 foot length
10 10 foot length
12 12 foot length

Notes

- 1) Part Number example shown is a stocked item.
- 2) Other combinations from this chart are readily available.
- 3) For options not shown, please consult Parflex Division.

Construction

Tube: Nylon

Reinforcement: 528N-Aramid fiber/548N-Fiber

Cover: Polyurethane

Operating Parameters

Temperature Range:

-40°F to +212°F (-40°C to +100°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

55 Series - pg. E-12

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Orange (Non-Conductive)

Notes

Non-Perforated cover

919/919B – PTFE Hose



Features

- Excellent chemical compatibility
- Handles extreme temperatures to +450°F
- Environmentally safe
- Resists moisture
- Low friction minimizes pressure drops and deposits

Certifications

- Meets or Exceeds SAE 100R14A - 919
- Meets or Exceeds SAE 100R14B - 919B
- FDA CFR 177.1550 (Natural tube)

Applications/Markets



- Chemical transfer lines
- General hydraulics
- Compressed air/gases
- Adhesive dispensing
- Coolant Lines
- Medical Gases

| Part Number | | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|-------------------------|
| # | # | | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| 919-3 | - | 1/8 | 3 | .25 | 6 | 3,000 | 20.7 | 1.50 | 38 | 28 | .04 | .06 | 91 | - |
| 919-4 | 919B-4 | 3/16 | 5 | .32 | 8 | 3,000 | 20.7 | 2.00 | 51 | 28 | .06 | .09 | 91N | 90 |
| 919-5 | 919B-5 | 1/4 | 6 | .38 | 10 | 3,000 | 20.7 | 3.00 | 76 | 28 | .09 | .13 | 91N | 90 |
| 919-6 | 919B-6 | 5/16 | 8 | .44 | 11 | 2,500 | 17.2 | 4.00 | 102 | 28 | .10 | .15 | 91N | 90 |
| 919-8 | 919B-8 | 13/32 | 10 | .53 | 13 | 2,000 | 13.8 | 5.00 | 127 | 28 | .13 | .19 | 91N | 90 |
| 919-10 | - | 1/2 | 13 | .63 | 16 | 1,500 | 10.3 | 6.50 | 165 | 28 | .15 | .22 | 91N | 90 |
| 919-12 | - | 5/8 | 16 | .75 | 19 | 1,200 | 8.3 | 7.50 | 191 | 12 | .19 | .28 | 91N | 90 |
| 919-16 | - | 7/8 | 22 | 1.03 | 26 | 1,000 | 6.9 | 9.00 | 229 | 14 | .27 | .40 | 91N | 90 |
| 919-20 | - | 1-1/8 | 29 | 1.28 | 33 | 625 | 4.3 | 16.00 | 406 | 10 | .39 | .58 | 91 | 90 |

Construction

Tube: 919 - Natural FDA Compliant PTFE
 919B - Black Static-Dissipative PTFE
 Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:

-100°F to +450°F (-73°C to +232°C)

Change in length at working pressure is +2% to -4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

90 Series - pg. E-45

91 Series - pg. E-52

91N Series - pg. E-52

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Use hose type 919B with static-dissipative core tube when conveying non-conducting fluids such as oils, paints, fuels, steam, etc.

919J – Silicone Jacketed PTFE Hose



Features

- Silicone jacket provides a clean, smooth cover to protect the stainless steel wire reinforcement against wear, fraying and contaminants
- Steam cleanable

Certifications

- Meets or Exceeds SAE 100R14A
- FDA CFR 177.1550

Applications/Markets



- Chemical transfer lines
- General hydraulics
- Compressed air/gases
- Adhesive dispensing
- Coolant Lines
- Medical Gases

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 919J-4-RED | 3/16 | 5 | .45 | 11 | 3,000 | 20.7 | 2.00 | 51 | 28 | .12 | .18 | 91N |
| 919J-5-RED | 1/4 | 6 | .52 | 13 | 3,000 | 20.7 | 3.00 | 76 | 28 | .14 | .21 | 91N |
| 919J-6-RED | 5/16 | 8 | .58 | 15 | 2,500 | 17.2 | 4.00 | 102 | 28 | .17 | .25 | 91N |
| 919J-8-RED | 13/32 | 10 | .68 | 17 | 2,000 | 13.8 | 5.00 | 127 | 28 | .20 | .30 | 91N |
| 919J-10-RED | 1/2 | 13 | .78 | 20 | 1,500 | 10.3 | 6.50 | 165 | 28 | .24 | .35 | 91N |
| 919J-12-RED | 5/8 | 16 | .91 | 23 | 1,200 | 8.3 | 7.50 | 191 | 12 | .29 | .43 | 91N |

Construction

Tube: Natural FDA compliant PTFE
 Reinforcement: 304 Stainless Steel braid
 Cover: Extruded silicone

Operating Parameters

Temperature Range:
 -40°F to +450°F (-40°C to +232°C)
 Change in length at working pressure is +2% to -4%
 Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

91N Series – pg. E-52
 For Crimp Die Selection charts see pgs. G-30 : G-41
 Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Red

Notes

Cover must be skived prior to fitting attachment

919U – High Abrasion Resistance PTFE Hose



Features

- Non-Marring, abrasion resistant polyurethane jacket protects the stainless steel wire reinforcement against wear, fraying and contaminants

Certifications

- Meets or Exceeds SAE 100R14A but operates at a temperature range of -40°F to +275°F
- FDA CFR 177.1550

Applications/Markets



- Chemical transfer lines
- General hydraulics
- Compressed air/gases
- Adhesive dispensing
- Coolant Lines
- Medical Gases

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 919U-4 | 3/16 | 5 | .37 | 9 | 3,000 | 20.7 | 2.00 | 51 | 28 | .08 | .13 | 91N |
| 919U-6 | 5/16 | 8 | .51 | 13 | 2,500 | 17.2 | 4.00 | 102 | 28 | .13 | .20 | 91N |
| 919U-8 | 13/32 | 10 | .61 | 15 | 2,000 | 13.8 | 5.00 | 127 | 28 | .15 | .22 | 91N |
| 919U-12 | 5/8 | 16 | .84 | 21 | 1,200 | 8.3 | 7.50 | 191 | 12 | .22 | .33 | 91N |
| 919U-16 | 7/8 | 22 | 1.12 | 28 | 1,000 | 6.9 | 9.00 | 229 | 14 | .31 | .47 | 91N |

Construction

Tube: Natural FDA compliant PTFE
 Reinforcement: 304 Stainless Steel braid
 Cover: Polyurethane

Operating Parameters

Temperature Range:
 -40°F to +275°F (-40°C to +135°C)
 Change in length at working pressure is +2% to -4%
 Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

91N Series – pg. E-52
 For Crimp Die Selection charts see pgs. G-30 : G-41
 Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

- Black

Notes

Cover must be skived prior to fitting attachment
 Other colors available upon request

929/929B – Heavy Wall PTFE Hose



Features

- Tight bend radius
- Excellent kink resistance
- Enhanced resistance to gas permeation due to increased PTFE wall thickness (.040")

Certifications

- Meets or Exceeds SAE 100R14A - 929
- Meets or Exceeds SAE 100R14B - 929B
- FDA CFR 177.1550 (Natural tube)

Applications/Markets



- Chemical transfer lines
- General hydraulics
- Compressed air/gases
- Adhesive dispensing
- Coolant Lines
- Medical Gases
- 919 (100R14) hose applications requiring tight routings

| Part Number | | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 929-4 | 929B-4 | 3/16 | 5 | .34 | 9 | 3,000 | 20.7 | 2.00 | 51 | 28 | .08 | .12 | 91N |
| 929-6 | 929B-6 | 5/16 | 8 | .47 | 12 | 2,500 | 17.2 | 4.00 | 102 | 28 | .12 | .18 | 91N |
| 929-8 | 929B-8 | 13/32 | 10 | .59 | 15 | 2,000 | 13.8 | 4.60 | 117 | 28 | .16 | .23 | 91N |
| - | 929B-12 | 5/8 | 16 | .81 | 21 | 1,200 | 8.3 | 6.50 | 165 | 12 | .19 | .28 | 91N |
| - | 929B-16 | 7/8 | 22 | 1.14 | 29 | 1,250 | 8.6 | 7.40 | 188 | 12 | .49 | .73 | 91N |

Construction

Tube: 929 - Natural FDA Compliant PTFE

929B - Black Static-Dissipative PTFE

Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:

-100°F to +450°F (-73°C to +232°C)

Change in length at working pressure is +2% to -4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

91N Series – pg. E-52

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Use hose type 929B with static-dissipative core tube when conveying non-conducting fluids such as oils, paints, fuels, steam, etc.

929BJ – Silicone Jacketed PTFE Hose (with Static-Dissipative Tube)



Features

- Silicone jacket protects SS wire reinforcement against wear and fraying, up to 450°F
- Silicone jacket provides clean, smooth cover and prevents contaminants from accumulating in braid
- Tight bend radius
- Excellent kink resistance
- Enhanced resistance to gas permeation due to increased PTFE wall thickness
- Steam cleanable

Applications/Markets



- Vacuum lines for high temperature autoclaves (may require internal spring guard)
- General hydraulics
- Compressed air/gases

| Part Number | Nominal I.D. | | Maximum O.D. | | Tube Wall | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|--------------|----|--------------|----|-----------|------|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | | | | | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 929BJ-4 | 3/16 | 5 | .58 | 15 | .040 | 1.02 | 3,000 | 20.7 | 2.00 | 51 | 28 | .17 | .25 | 91N |
| 929BJ-6 | 5/16 | 8 | .70 | 18 | .040 | 1.02 | 2,500 | 17.2 | 4.00 | 102 | 28 | .23 | .34 | 91N |
| 929BJ-8 | 13/32 | 10 | .81 | 20 | .044 | 1.12 | 2,000 | 13.8 | 4.60 | 117 | 28 | .29 | .43 | 91N |
| 929BJ-12 | 5/8 | 16 | 1.04 | 26 | .048 | 1.22 | 1,200 | 8.3 | 6.50 | 165 | 12 | .40 | .60 | 91N |
| 929BJ-16 | 7/8 | 22 | 1.36 | 35 | .048 | 1.22 | 1,250 | 8.6 | 7.40 | 188 | 14 | .78 | 1.16 | 91N |

Construction

Tube: Black static-dissipative PTFE
Reinforcement: 304 Stainless Steel braid
Cover: Silicone jacket

Operating Parameters

Temperature Range:
-65°F to +450°F (-54°C to +232°C)
Change in length at working pressure is +2% to -4%
Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

91N Series – pg. E-52
For Crimp Die Selection charts see pgs. G-30 : G-41
Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Colors

● Brown

Notes

Cover must be skived prior to fitting attachment

939/939B – Convoluted PTFE Hose



Features

- Excellent flexibility
- Exceptional kink resistance

Certifications

- FDA CFR 177.1550 (Natural tube)

Applications/Markets



- Chemical transfer
- General hydraulics
- Hose applications requiring tight routings

| Part Number | | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 939-6 | 939B-6 | 3/8 | 10 | .59 | 15 | 1,500 | 10.3 | 2.25 | 57 | 28 | .12 | .18 | 93N |
| 939-8 | 939B-8 | 1/2 | 13 | .79 | 20 | 1,350 | 9.3 | 2.88 | 73 | 28 | .21 | .31 | 93N |
| 939-10 | 939B-10 | 5/8 | 16 | .88 | 22 | 1,000 | 6.9 | 3.00 | 76 | 28 | .24 | .36 | 93N |
| 939-12 | 939B-12 | 3/4 | 19 | 1.09 | 28 | 1,100 | 7.6 | 3.75 | 95 | 28 | .32 | .47 | 93N |
| 939-16 | 939B-16 | 1 | 25 | 1.33 | 34 | 1,000 | 6.9 | 5.00 | 127 | 28 | .45 | .67 | 93N |
| 939-20 | 939B-20 | 1-1/4 | 32 | 1.75 | 44 | 1,000 | 6.9 | 6.25 | 159 | 20* | .70 | 1.04 | 93N |
| 939-24 | 939B-24 | 1-1/2 | 38 | 2.05 | 52 | 750 | 5.2 | 7.50 | 191 | 12* | .80 | 1.18 | 93N |
| 939-32 | 939B-32 | 2 | 51 | 2.56 | 65 | 250 | 1.7 | 10.00 | 254 | 5* | 1.01 | 1.50 | 93N |

Construction

Tube: 939 - Natural FDA Compliant PTFE

939B - Black Static-Dissipative PTFE

Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:

-100°F to +450°F (-73°C to +232°C)

Change in length at working pressure is +2% to -4%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

93N Series – pg. E-67

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Use hose type 939B with static-dissipative core tube when conveying non-conducting fluids such as oils, paints, fuels, steam, etc.

Not suggested for steam-cold water cycling applications

* 28 in/Hg can be obtained by using 2799 internal spring guard. See pg. F-23

943B – 3,000 PSI W.P. High Temp Hose



Features

- High temperature hydraulic hose
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Certifications

- Meets or Exceeds SAE 100R7 and SAE 100R17

Applications/Markets



- High temp hydraulic applications
- Chemical transfer
- Compressed air/gases

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. |
| 943B-6 | 5/16 | 8 | .49 | 12 | 3,000 | 20.7 | 2.50 | 64 | 28 | .18 | .26 |
| 943B-8 | 13/32 | 10 | .62 | 16 | 3,000 | 20.7 | 2.88 | 73 | 28 | .24 | .35 |
| 943B-10 | 1/2 | 13 | .73 | 19 | 3,000 | 20.7 | 3.25 | 83 | 28 | .32 | .46 |
| 943B-12 | 5/8 | 16 | .99 | 25 | 3,000 | 20.7 | 4.00 | 102 | 28 | .70 | 1.01 |
| 943B-16 | 29/32 | 23 | 1.25 | 32 | 3,000 | 20.7 | 5.00 | 127 | 28 | 1.02 | 1.53 |

Construction

Tube: Black static-dissipative PTFE

Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:

-65°F to +400°F (-54°C to +204°C)

Change in length at working pressure is +2% to -2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Fittings

94 Series – pg. E-70

Notes

Factory-made assemblies only

Not suggested for steam-cold water cycling applications

944B – 4,000-4,500 PSI W.P. High Temp Hose



Features

- High temperature hydraulic hose
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Applications/Markets



- General hydraulics
- Chemical transfer
- Compressed air/gases
- Paint stripping

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. |
| 944B-4 | 15/64 | 6 | .39 | 10 | 4,500 | 31.0 | 1.50 | 38 | 28 | .11 | .16 |
| 944B-6 | 5/16 | 8 | .49 | 12 | 4,500 | 31.0 | 2.50 | 64 | 28 | .17 | .24 |
| 944B-8 | 7/16 | 11 | .62 | 16 | 4,500 | 31.0 | 2.88 | 73 | 28 | .25 | .35 |
| 944B-10 | 1/2 | 13 | .73 | 19 | 4,000 | 27.6 | 3.25 | 83 | 28 | .31 | .45 |
| 944B-12 | 5/8 | 16 | .99 | 25 | 4,000 | 27.6 | 4.00 | 102 | 28 | .74 | 1.05 |
| 944B-16 | 29/32 | 23 | 1.25 | 32 | 4,000 | 27.6 | 5.00 | 127 | 28 | 1.09 | 1.55 |

Construction

Tube: Black static-dissipative PTFE

Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:

-65°F to +400°F (-54°C to +204°C)

Change in length at working pressure is +2% to -2%

Min. Burst Pressure is 3x Max. Working Pressure at 73°F (23°C)

Fittings

94 Series – pg. E-70

Notes

Factory-made assemblies only

Not suggested for steam-cold water cycling applications

Reduce pressure to 3,000 psi (20.7MPa) for pressure impulse applications

950B – 4,000 PSI W.P. High Temp Hose



Features

- High temperature hydraulic hose
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Applications/Markets



- High temp hydraulic applications
- Chemical transfer
- Compressed air/gases

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|--------------|----|--------------|----|-------------------------------------|------|---------------------|-----|----------------------|----------|----------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. |
| 950B-4 | 15/64 | 6 | .50 | 13 | 4,000 | 27.6 | 3.00 | 76 | 28 | .20 | .27 |
| 950B-6 | 5/16 | 8 | .62 | 16 | 4,000 | 27.6 | 5.00 | 127 | 28 | .24 | .36 |
| 950B-8 | 7/16 | 11 | .75 | 19 | 4,000 | 27.6 | 5.75 | 146 | 28 | .45 | .68 |
| 950B-12 | 5/8 | 16 | 1.08 | 27 | 4,000 | 27.6 | 7.75 | 197 | 28 | .96 | 1.43 |
| 950B-16 | 29/32 | 23 | 1.36 | 34 | 4,000 | 27.6 | 9.63 | 245 | 28 | 1.30 | 1.93 |

Construction

Tube: Black static-dissipative PTFE

Reinforcement: Multiple high density braids of 304 Stainless Steel

Fittings

95 Series – pg. E-70

Notes

Factory-made assemblies only

Operating Parameters

Temperature Range:

-65°F to +400°F (-54°C to +204°C)

Change in length at working pressure is +2% to -2%

Min. Burst Pressure is 3x Max. Working Pressure at 73°F (23°C)

955B – 5,500 PSI W.P. High Temp Hose



Features

- High temperature hydraulic hose
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Applications/Markets



- General hydraulics
- Chemical transfer
- Compressed air/gases

| Part Number | Nominal I.D. | | Maximum O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|--------------|----|--------------|----|----------------------------------------|------|---------------------|-----|-------------------------|----------|----------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | psi | MPa | inch | mm | inch | lbs./ft. | kg./mtr. |
| 955B-4 | 15/64 | 6 | .50 | 13 | 5,500 | 37.9 | 3.00 | 76 | 28 | .23 | .34 |
| 955B-6 | 5/16 | 8 | .62 | 16 | 5,500 | 37.9 | 5.00 | 127 | 28 | .24 | .35 |
| 955B-8 | 7/16 | 11 | .75 | 19 | 5,500 | 37.9 | 5.75 | 146 | 28 | .46 | .68 |
| 955B-10 | 1/2 | 13 | .91 | 23 | 5,500 | 37.9 | 6.50 | 165 | 28 | .91 | 1.34 |
| 955B-12 | 5/8 | 16 | 1.08 | 27 | 5,500 | 37.9 | 7.75 | 197 | 28 | .92 | 1.36 |
| 955B-16 | 29/32 | 23 | 1.36 | 34 | 5,500 | 37.9 | 9.63 | 245 | 28 | 1.20 | 1.77 |

Construction

Tube: Black static-dissipative PTFE

Reinforcement: Multiple high density braids of 304 Stainless Steel

Fittings

95 Series – pg. E-70

Notes

Factory-made assemblies only

Not suggested for steam-cold water cycling applications

Reduce operating pressure to 4000 PSI (27.6 MPa) for impulse service applications

Operating Parameters

Temperature Range:

-65°F to +400°F (-54°C to +204°C)

Change in length at working pressure is +2% to -2%

Min. Burst Pressure is 16,000 psi at 73°F (23°C)

S30/S30B - Industrial .030" wall PTFE Hose, Stainless Steel Braid



Features

- High temperature hose
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Compliances

- FDA 21 CFR 177.1550, 177.2600 (Natural tube)

Applications/Markets



- Food & Beverage
- Pharmaceutical
- Fluid handling
- Chemical transfer
- Cosmetics
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|-------------------------|
| # | # | | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| 03-S30 | 03-S30B | 1/8 | 3 | .250 | 6 | 3,000 | 207 | 1-1/2 | 38 | 28 | .05 | .08 | 91 | NA |
| 04-S30 | 04-S30B | 3/16 | 5 | .305 | 8 | 3,000 | 207 | 2 | 51 | 28 | .06 | .09 | 91N | 90 |
| 05-S30 | 05-S30B | 1/4 | 6 | .375 | 10 | 3,000 | 207 | 3 | 76 | 28 | .11 | .16 | 91N | 90 |
| 06-S30 | 06-S30B | 5/16 | 8 | .430 | 11 | 2,500 | 172 | 4 | 102 | 28 | .13 | .20 | 91N | 90 |
| 08-S30 | 08-S30B | 13/32 | 10 | .535 | 14 | 2,000 | 138 | 5 | 127 | 28 | .15 | .22 | 91N | 90 |
| 10-S30 | 10-S30B | 1/2 | 13 | .636 | 16 | 1,750 | 121 | 6-1/2 | 165 | 28 | .19 | .28 | 91N | 90 |
| 12-S30 | 12-S30B | 5/8 | 16 | .765 | 19 | 1,500 | 103 | 7-1/2 | 191 | 12 | .24 | .36 | 91N | 90 |
| 16-S30 | 16-S30B | 7/8 | 22 | 1.030 | 26 | 1,000 | 69 | 9 | 229 | 14 | .31 | .47 | 91N | 90 |

Construction

Tube: S30 - Natural FDA Compliant PTFE
S30B - Black Static-Dissipative PTFE
Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:

-100°F to +450°F (-73°C to +232°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

All ratings based on 72°F/23°C

Change in length at working pressure is +2% to -4%

Fittings

90 Series - pg. E-45

91 Series - pg. E-52

91N Series - pg. E-52

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
(817) 624-1329 or email page@parker.com

See pg. A-20 for part numbering system

S40/S40B - Industrial .040 wall

Heavy Wall PTFE Hose, Stainless Steel Braid



Features

- 33% more PTFE
- High temperature hose
- Excellent chemical compatibility
- Improved bend radius
- Decreased gas permeation
- Low friction minimizes pressure drops and deposits

Compliances

- FDA 21 CFR 177.1550, 177.2600

Applications/Markets



- Food & Beverage
- Pharmaceutical
- Fluid handling
- Chemical transfer
- Cosmetics
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series | Field Attachable Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|-------------------------|
| # | # | | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | | |
| 03-S40 | 03-S40B | 1/8 | 3 | .250 | 6 | 3,000 | 207 | 1-1/2 | 38 | 28 | .05 | .08 | 91 | NA |
| 04-S40 | 04-S40B | 3/16 | 5 | .320 | 8 | 3,000 | 207 | 2 | 51 | 28 | .08 | .13 | 91N | 90 |
| 05-S40 | 05-S40B | 1/4 | 6 | .375 | 10 | 3,000 | 207 | 3 | 76 | 28 | .11 | .16 | 91N | 90 |
| 06-S40 | 06-S40B | 5/16 | 8 | .435 | 11 | 2,500 | 172 | 4 | 102 | 28 | .12 | .18 | 91N | 90 |
| 08-S40 | 08-S40B | 13/32 | 10 | .565 | 14 | 2,000 | 138 | 5 | 127 | 28 | .16 | .23 | 91N | 90 |
| 10-S40 | 10-S40B | 1/2 | 13 | .656 | 17 | 1,750 | 121 | 6-1/2 | 165 | 28 | .17 | .25 | 91N | 90 |
| 12-S40 | 12-S40B | 5/8 | 16 | .780 | 20 | 1,500 | 103 | 7-1/2 | 191 | 12 | .19 | .28 | 91N | 90 |
| 16-S40 | 16-S40B | 7/8 | 22 | 1.05 | 27 | 1,000 | 69 | 9 | 229 | 14 | .49 | .73 | 91N | 90 |

Construction

Tube: S40 - Natural FDA Compliant PTFE
 S40B - Black Static-Dissipative PTFE
 Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:
 -100°F to +450°F (-73°C to +232°C)
 Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)
 All ratings based on 72°F/23°C
 Change in length at working pressure is +2% to -4%

Fittings

90 Series - pg. E-45
 91 Series - pg. E-52
 91N Series - pg. E-52
 For Crimp Die Selection charts see pgs. G-30 : G-41
 Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
 (817) 624-1329 or email page@parker.com
 See pg. A-20 for part numbering system

STW/STB - "TRUE BORE"

Smoothbore PTFE Hose, Stainless Steel Braid



Features

- High temperature hose
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Compliances

- FDA 21 CFR 177.1550, 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Food & Beverage
- Pharmaceutical
- Fluid handling
- Chemical transfer
- Cosmetics
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 03-STW | 03-STB | 1/8 | 3 | .25 | 6 | 3,000 | 207 | 1-1/2 | 38 | 28 | .05 | .08 | NA |
| 04-STW | 04-STB | 1/4 | 6 | .37 | 9 | 3,000 | 207 | 3 | 76 | 28 | .08 | .13 | PAGE |
| 06-STW | 06-STB | 3/8 | 10 | .51 | 13 | 2,000 | 138 | 5 | 127 | 28 | .11 | .16 | PAGE |
| 08-STW | 08-STB | 1/2 | 13 | .63 | 16 | 1,750 | 121 | 6-1/2 | 165 | 28 | .16 | .24 | PAGE |
| 12-STW | 12-STB | 3/4 | 19 | .88 | 22 | 1,000 | 69 | 8.5 | 216 | 28 | .20 | .30 | PAGE |
| 16-STW | 16-STB | 1 | 25 | 1.13 | 29 | 1,000 | 69 | 12 | 305 | 20 | .33 | .49 | PAGE |
| 16Z-STW | 16Z-STB | 1 | 25 | 1.22 | 31 | 1,000 | 69 | 12 | 305 | 20 | .56 | .83 | PAGE |
| 20Z-STW | 20Z-STB | 1-1/4 | 32 | 1.52 | 38 | 1,000 | 69 | 14 | 356 | 18 | .68 | 1.02 | PAGE |
| 24Z-STW | 24Z-STB | 1-1/2 | 38 | 1.73 | 44 | 900 | 62 | 15 | 381 | 15 | .79 | 1.18 | PAGE |

Construction

Tube: STW - Natural FDA Compliant PTFE

STB - Black Static-Dissipative PTFE

Reinforcement: 304 Stainless Steel braid

Operating Parameters

Temperature Range:

-100°F to +450°F (-73°C to +232°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

All ratings based on 72°F/23°C

Change in length at working pressure is +2% to -4%

Fittings

PAGE Fittings – pg. E-71

Uses crimp collar ST300, see pg. E-72

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas (817) 624-1329 or email page@parker.com

"Z" indicates double braid

See pg. A-21 for part numbering system

Cannot be used with 90 or 91N series fittings

SBFW/SBFB - PAGE-flex™ SBF

Extra Flexible Fluoropolymer Hose



Features

- Half the minimum bend radius of conventional smoothbore products
- Kink and vacuum resistant
- Easily cleaned
- PPIH full line of optional reinforcement types
- Cooler outside temperatures reduces operator burns
- Reduces environment temperatures in confined areas
- Available with white Silicone jacket

Compliances

- FDA 21 CFR 177.1550, 177.2600
- **USP Class VI Certified**
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Food & Beverage
- Pharmaceutical
- Fluid handling
- Chemical transfer
- Cosmetics
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|
| # | # | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. |
| 06-SBFW | 06-SBFB | 3/8 | 10 | .63 | 16 | 300 | 21 | 2 | 51 | 28 | .16 | .24 |
| 08-SBFW | 08-SBFB | 1/2 | 13 | .76 | 19 | 300 | 21 | 2-1/2 | 64 | 28 | .23 | .34 |
| 12-SBFW | 12-SBFB | 3/4 | 19 | 1.04 | 26 | 250 | 17 | 3 | 76 | 28 | .37 | .55 |
| 16-SBFW | 16-SBFB | 1 | 25 | 1.29 | 33 | 250 | 17 | 4 | 102 | 28 | .54 | .80 |
| 24-SBFW | 24-SBFB | 1-1/2 | 38 | 1.85 | 47 | 200 | 14 | 7 | 178 | 28 | .83 | 1.23 |

Construction

Tube: SBFW - Natural PFA tube

SBFB - Black Static-dissipative PFA tube

Reinforcement: bonded wire braid - silicone - textile braided composite with 316 Stainless Steel braid

Operating Parameters

Temperature Range:

-65°F to +325°F (-54°C to +163°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

All ratings based on 72°F/23°C

Fittings

PAGE Fittings – pg. E-71

Complete line of standard PPIH crimp fittings

Notes

Available from PAGE Business Unit, Ft. Worth, Texas (817) 624-1329 or email page@parker.com

Factory-made assemblies only

SBFB - Special order only

Available with white silicone jacket

See pg. A-21 for part numbering system

SCW/SCB - Convuluted PTFE Hose

316 Stainless Steel Braid



Features

- High temperature hose
- Excellent corrosion resistance
- Seamless
- Open pitch
- Self draining
- Withstands extreme flexing
- Environmentally safe; low effusion
- Long life expectancy

Compliances

- FDA 21 CFR 177.1550, 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Fluid handling
- Chemical transfer
- Semiconductor
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 04-SCW | 04-SCB | 1/4 | 6 | .46 | 12 | 1,500 | 104 | 3/4 | 19 | 28 | .08 | .11 | PAGE |
| 06-SCW | 06-SCB | 3/8 | 10 | .54 | 14 | 1,500 | 104 | 1 | 25 | 28 | .14 | .21 | PAGE |
| 08-SCW | 08-SCB | 1/2 | 13 | .72 | 18 | 1,500 | 104 | 1-1/2 | 38 | 28 | .16 | .23 | PAGE |
| 12-SCW | 12-SCB | 3/4 | 19 | 1.02 | 26 | 1,200 | 83 | 2 | 51 | 28 | .27 | .40 | PAGE |
| 16-SCW | 16-SCB | 1 | 25 | 1.31 | 33 | 1,000 | 69 | 2-1/2 | 64 | 28 | .37 | .55 | PAGE |
| 20-SCW | 20-SCB | 1-1/4 | 32 | 1.73 | 44 | 750 | 52 | 3 | 76 | 28 | .46 | .68 | PAGE |
| 24-SCW | 24-SCB | 1-1/2 | 38 | 1.93 | 49 | 650 | 45 | 3-3/4 | 95 | 28 | .55 | .81 | PAGE |
| 32-SCW | 32-SCB | 2 | 51 | 2.42 | 62 | 450 | 31 | 4-3/4 | 121 | 28 | .90 | 1.4 | PAGE |

Construction

Tube: SCW - Natural FDA Compliant PTFE

SCB - Black Static-Dissipative PTFE

Reinforcement: 316 Stainless Steel braid

Operating Parameters

Temperature Range:

-100°F to +500°F (-73°C to +260°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

All ratings based on 72°F/23°C

Fittings

PAGE Fittings – pg. E-71

Uses crimp collar SC300, see pg. E-72

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
(817) 624-1329 or email page@parker.com

Not suggested for steam-cold water cycling applications

See pg. A-21 for part numbering system

Cannot be used with 90 or 91N series fittings

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



A-79

PCW/PCB - Convoluted PTFE Hose

Polypropylene Braid



Features

- Personal handling safety
- Excellent corrosion resistance
- Seamless
- Open pitch
- Self draining
- Withstands extreme flexing
- Environmentally safe; low effusion
- Long life expectancy

Compliances

- FDA 21 CFR 177.1550, 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Fluid handling
- Chemical transfer
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|----|--------------|----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 04-PCW | 04-PCB | 1/4 | 6 | .55 | 14 | 350 | 59 | 3/4 | 19 | 28 | .03 | .05 | PAGE |
| 06-PCW | 06-PCB | 3/8 | 10 | .64 | 16 | 350 | 59 | 1 | 25 | 28 | .06 | .09 | PAGE |
| 08-PCW | 08-PCB | 1/2 | 13 | .84 | 21 | 300 | 21 | 1-1/2 | 38 | 28 | .15 | .22 | PAGE |
| 12-PCW | 12-PCB | 3/4 | 19 | 1.15 | 29 | 250 | 17 | 2 | 51 | 28 | .18 | .27 | PAGE |
| 16-PCW | 16-PCB | 1 | 25 | 1.50 | 38 | 250 | 17 | 2-1/2 | 64 | 28 | .26 | .39 | PAGE |
| 20-PCW | 20-PCB | 1-1/4 | 32 | 1.92 | 49 | 200 | 14 | 3 | 76 | 28 | .37 | .55 | PAGE |
| 24-PCW | 24-PCB | 1-1/2 | 38 | 2.12 | 54 | 200 | 14 | 3-3/4 | 95 | 28 | .42 | .63 | PAGE |
| 32-PCW | 32-PCB | 2 | 51 | 2.65 | 67 | 200 | 14 | 4-3/4 | 121 | 28 | .56 | .83 | PAGE |

Construction

Tube: PCW - Natural FDA Compliant PTFE

PCB - Black Static-Dissipative PTFE

Reinforcement: Polypropylene

Operating Parameters

Temperature Range:

0°F to +212°F (-18°C to +100°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

All ratings based on 72°F/23°C

Fittings

PAGE Fittings – pg. E-71

Uses crimp collar PC300, see pg. E-72

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
(817) 624-1329 or email page@parker.com

Not suggested for steam-cold water cycling applications

See pg. A-21 for part numbering system

Cannot be used with 90 or 91N series fittings

SCWV/SCBV

Stainless Steel Braid, Heavy Wall Convuluted PTFE Hose



Features

- High temperature hose
- Open pitch
- Thicker wall
- Handles vacuum applications at elevated temperatures
- Excellent chemical compatibility
- Easy Cleaning
- Non Adhesive

Compliances

- FDA 21 CFR 177.1550, 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Fluid handling
- Chemical transfer
- Semiconductor
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|-----|--------------|-----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 08-SCWV | 08-SCBV | 1/2 | 13 | .75 | 19 | 1,500 | 104 | 2 | 51 | 28 | .17 | .26 | PAGE |
| 12-SCWV | 12-SCBV | 3/4 | 19 | 1.04 | 26 | 1,200 | 83 | 2-3/4 | 70 | 28 | .33 | .49 | PAGE |
| 16-SCWV | 16-SCBV | 1 | 25 | 1.25 | 32 | 1,000 | 69 | 4 | 102 | 28 | .37 | .55 | PAGE |
| 20-SCWV | 20-SCBV | 1-1/4 | 32 | 1.66 | 42 | 750 | 52 | 5-1/2 | 140 | 28 | .56 | .83 | PAGE |
| 24-SCWV | 24-SCBV | 1-1/2 | 38 | 1.92 | 49 | 650 | 45 | 7 | 178 | 28 | .64 | .95 | PAGE |
| 32-SCWV | 32-SCBV | 2 | 51 | 2.49 | 63 | 450 | 31 | 8-1/2 | 216 | 28 | .84 | 1.24 | PAGE |
| 40-SCWV | 40-SCBV | 2-1/2 | 64 | 3.25 | 83 | 200 | 14 | 12 | 305 | 28 | 1.52 | 2.26 | PAGE |
| 48-SCWV | 48-SCBV | 3 | 76 | 3.80 | 97 | 175 | 12 | 14 | 356 | 28 | 1.82 | 2.71 | PAGE |
| 64-SCWV | 64-SCBV | 4 | 102 | 4.76 | 121 | 150 | 10 | 16 | 406 | 28 | 2.10 | 3.13 | PAGE |

Construction

Tube: SCWV - Heavy Wall Natural FDA Compliant PTFE

SCBV - Heavy Wall Black Static-dissipative PTFE

Reinforcement: 316 Stainless Steel braid

Operating Parameters

Temperature Range:

-100°F to +500°F (-73°C to +260°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F(23°C)

All ratings based on 72°F/23°C

Fittings

PAGE Fittings – pg. E-71

Uses crimp collar SC300, see pg. E-72

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
(817) 624-1329 or email page@parker.com

Not suggested for steam-cold water cycling applications

See pg. A-21 for part numbering system

Cannot be used with 90 or 91N series fittings

Vacuum wire recommended for 2-1/2, 3 and 4 inch

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



A-81

PCWV/PCBV

Polypropylene Braid, Heavy Wall Convuluted PTFE Hose



Features

- Personal handling safety
- Open pitch
- Thicker wall
- Handles vacuum applications at elevated temperatures
- Excellent chemical compatibility
- Easy Cleaning
- Non Adhesive

Compliances

- FDA 21 CFR 177.1550, 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Fluid handling
- Chemical transfer
- Paint

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|-----|--------------|-----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 08-PCWV | 08-PCBV | 1/2 | 13 | .81 | 21 | 300 | 21 | 3 | 76 | 28 | .14 | .20 | PAGE |
| 12-PCWV | 12-PCBV | 3/4 | 19 | 1.30 | 33 | 250 | 17 | 3-1/2 | 89 | 28 | .22 | .32 | PAGE |
| 16-PCWV | 16-PCBV | 1 | 25 | 1.44 | 36 | 250 | 17 | 4-1/2 | 114 | 28 | .32 | .47 | PAGE |
| 20-PCWV | 20-PCBV | 1-1/4 | 32 | 1.86 | 47 | 200 | 14 | 5 | 127 | 28 | .40 | .59 | PAGE |
| 24-PCWV | 24-PCBV | 1-1/2 | 38 | 2.10 | 53 | 200 | 14 | 6 | 152 | 28 | .49 | .73 | PAGE |
| 32-PCWV | 32-PCBV | 2 | 51 | 2.66 | 68 | 200 | 14 | 8-1/2 | 216 | 28 | .66 | .99 | PAGE |
| 40-PCWV | 40-PCBV | 2-1/2 | 64 | 3.57 | 91 | 150 | 10 | 12 | 305 | 28 | 1.21 | 1.80 | PAGE |
| 48-PCWV | 48-PCBV | 3 | 76 | 3.92 | 100 | 125 | 9 | 14 | 356 | 28 | 1.45 | 2.16 | PAGE |
| 64-PCWV | 64-PCBV | 4 | 102 | 4.92 | 125 | 100 | 7 | 16 | 406 | 28 | 1.68 | 2.50 | PAGE |

Construction

Tube: PCWV - Heavy Wall Natural FDA Compliant PTFE

PCBV - Heavy Wall Black Static-dissipative PTFE

Reinforcement: Polypropylene

Operating Parameters

Temperature Range:

0°F to +212°F (-18°C to +100°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

All ratings based on 72°F/23°C

PAGE Fittings - pg. E-71

Uses crimp collar PC300, see pg. E-72

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
(817) 624-1329 or email page@parker.com

Not suggested for steam-cold water cycling applications

See pg. A-21 for part numbering system

Cannot be used with 90 or 91N series fittings

Vacuum wire recommended for 2-1/2, 3 and 4 inch

Fittings



For detailed ordering information, please consult price list or contact Parflex® Division.

SCWV-FS/SCBV-FS - Flare-Seal®

Stainless Steel Braid



Features

- Flare Seal fitting - Continuous PTFE through fitting; no area for bacterial entrapment
- Increased flow
- Thicker wall
- Excellent chemical compatibility
- Easy Cleaning
- Non Adhesive

Compliances

- FDA 21 CFR 177.1550, 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Fluid handling
- Chemical transfer
- Paint
- Pharmaceutical
- Food & Beverage

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|------------|--------------|-----|--------------|-----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|
| # | # | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. |
| 08-SCWV-FS | 08-SCBV-FS | 1/2 | 13 | .75 | 19 | 500 | 35 | 2 | 51 | 28 | .17 | .26 |
| 12-SCWV-FS | 12-SCBV-FS | 3/4 | 19 | 1.04 | 26 | 425 | 29 | 2-3/4 | 70 | 28 | .33 | .49 |
| 16-SCWV-FS | 16-SCBV-FS | 1 | 25 | 1.25 | 32 | 350 | 24 | 4 | 102 | 28 | .37 | .55 |
| 20-SCWV-FS | 20-SCBV-FS | 1-1/4 | 32 | 1.66 | 42 | 325 | 22 | 5-1/2 | 140 | 28 | .56 | .83 |
| 24-SCWV-FS | 24-SCBV-FS | 1-1/2 | 38 | 1.92 | 49 | 300 | 21 | 7 | 178 | 28 | .64 | .95 |
| 32-SCWV-FS | 32-SCBV-FS | 2 | 51 | 2.49 | 63 | 250 | 17 | 8-1/2 | 216 | 28 | .84 | 1.24 |
| 40-SCWV-FS | 40-SCBV-FS | 2-1/2 | 64 | 3.25 | 83 | 200 | 14 | 12 | 305 | 28 | 1.52 | 2.26 |
| 48-SCWV-FS | 48-SCBV-FS | 3 | 76 | 3.80 | 97 | 175 | 12 | 14 | 356 | 28 | 1.82 | 2.71 |
| 64-SCWV-FS | 64-SCBV-FS | 4 | 102 | 4.76 | 121 | 150 | 10 | 16 | 406 | 28 | 2.10 | 3.13 |

Construction

Tube: SCWV -FS- Heavy Wall Natural FDA Compliant PTFE
 SCBV-FS - Heavy Wall Black Static-dissipative PTFE
 Reinforcement: 316 Stainless Steel braid

Operating Parameters

Temperature Range:
 -100°F to +500°F (-73°C to +260°C)
 Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)
 All ratings based on 73°F/23°C

Fittings

PAGE Fittings - pg. E-71

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
 (817) 624-1329 or email page@parker.com
 Factory-made assemblies only
 Not suggested for steam-cold water cycling applications
 All dimensions nominal
 See pg. A-21 for part numbering system
 Cannot be used with 90 or 91N series fittings

PCWV-FS/PCBV-FS - Flare-Seal®

Polypropylene Braid



Features

- Flare Seal fitting - Continuous PTFE through fitting; no area for bacterial entrapment
- Increased flow
- Personal handling safety
- Good chemical compatibility
- Easy Cleaning
- Non Adhesive

Compliances

- FDA 21 CFR 177.1550, 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Fluid handling
- Chemical transfer
- Paint
- Pharmaceutical
- Food & Beverage

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | |
|-------------|------------|--------------|-----|--------------|-----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|
| # | # | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. |
| 08-PCWV-FS | 08-PCBV-FS | 1/2 | 13 | .810 | 21 | 300 | 21 | 3 | 76 | 28 | .14 | .20 |
| 12-PCWV-FS | 12-PCBV-FS | 3/4 | 19 | 1.10 | 28 | 250 | 17 | 3-1/2 | 89 | 28 | .22 | .32 |
| 16-PCWV-FS | 16-PCBV-FS | 1 | 25 | 1.44 | 36 | 250 | 17 | 4-1/2 | 114 | 28 | .31 | .47 |
| 20-PCWV-FS | 20-PCBV-FS | 1-1/4 | 32 | 1.86 | 47 | 200 | 14 | 5 | 127 | 28 | .40 | .59 |
| 24-PCWV-FS | 24-PCBV-FS | 1-1/2 | 38 | 2.10 | 53 | 200 | 14 | 6 | 152 | 28 | .49 | .73 |
| 32-PCWV-FS | 32-PCBV-FS | 2 | 51 | 2.66 | 68 | 200 | 14 | 8-1/2 | 216 | 28 | .66 | .99 |
| 40-PCWV-FS | 40-PCBV-FS | 2-1/2 | 64 | 3.42 | 87 | 150 | 10 | 12 | 305 | 28 | 1.21 | 1.80 |
| 48-PCWV-FS | 48-PCBV-FS | 3 | 76 | 3.92 | 100 | 125 | 9 | 14 | 356 | 28 | 1.45 | 2.16 |
| 64-PCWV-FS | 64-PCBV-FS | 4 | 102 | 4.92 | 125 | 100 | 7 | 16 | 406 | 28 | 1.68 | 2.50 |

Construction

Tube: PCWV-FS - Heavy Wall Natural FDA Compliant PTFE

PCBV-FS- Heavy Wall Black Static-dissipative PTFE

Reinforcement: Polypropylene

Operating Parameters

Temperature Range:

0°F to +212°F (-18°C to +100°C)

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

All ratings based on 73°F/23°C

Fittings

PAGE Fittings - pg. E-71

Notes

Available from PAGE Business Unit, Ft. Worth, Texas
(817) 624-1329 or email page@parker.com

Factory-made assemblies only

Not suggested for steam-cold water cycling applications

See pg. A-21 for part numbering system

Cannot be used with 90 or 91N series fittings

RCTW/RCTB EPDM Rubber Covered Fluoropolymer Hose



Features

- Personal handling safety
- Handles full vacuum
- Good chemical compatibility
- Easy Cleaning
- Non Adhesive

Compliances

- FDA 21 CFR 177.1550, 177.2600
- **USP Class VI Certified**
- European Pharmacopoeia 3.1.9
- ISO 10993 Sections 5, 6, 10, 11

Applications/Markets



- Food & Beverage
- Pharmaceutical
- Fluid handling
- Chemical
- Industrial
- Paint
- Semiconductor

| Part Number | | Nominal I.D. | | Nominal O.D. | | Maximum Working Pressure 73°F/ 23°C | | Minimum Bend Radius | | Vac. Rating Hg./73°F | Weight | | Permanent Fitting Series |
|-------------|------------|--------------|-----|--------------|-----|----------------------------------------|-----|---------------------|-----|-------------------------|----------|----------|--------------------------|
| # | # | | | | | | | | | | | | |
| Natural | Conductive | inch | mm | inch | mm | psi | bar | inch | mm | inch | lbs./ft. | kg./mtr. | |
| 08-RCTW | 08-RCTB | 1/2 | 13 | .95 | 24 | 500 | 35 | 2-1/2 | 64 | 30 | .33 | .49 | PAGE |
| 12-RCTW | 12-RCTB | 3/4 | 19 | 1.25 | 32 | 500 | 35 | 3 | 76 | 30 | .51 | .76 | PAGE |
| 16-RCTW | 16-RCTB | 1 | 25 | 1.53 | 39 | 450 | 31 | 4 | 102 | 30 | .67 | 1.00 | PAGE |
| 20-RCTW | 20-RCTB | 1-1/4 | 32 | 1.74 | 44 | 375 | 26 | 7 | 178 | 30 | .72 | 1.07 | PAGE |
| 24-RCTW | 24-RCTB | 1-1/2 | 38 | 2.13 | 54 | 375 | 26 | 9 | 229 | 30 | 1.10 | 1.51 | PAGE |
| 32-RCTW | 32-RCTB | 2 | 51 | 2.68 | 68 | 300 | 21 | 10-1/2 | 267 | 30 | 1.54 | 2.30 | PAGE |
| 40-RCTW | 40-RCTB | 2-1/2 | 64 | 3.30 | 84 | 200 | 14 | 15 | 381 | 30 | 2.07 | 3.09 | PAGE |
| 48-RCTW | 48-RCTB | 3 | 76 | 3.88 | 99 | 200 | 14 | 18 | 457 | 30 | 2.99 | 4.46 | PAGE |
| 64-RCTWV | 64-RCTB | 4 | 102 | 4.98 | 127 | 150 | 10 | 22-1/2 | 572 | 30 | 4.33 | 6.46 | PAGE |

Construction

Tube: RCTW - Natural FEP tube

RCTB - Static-dissipative PFA tube

Reinforcement: Double wire helix - multi layered rubber

Cover: Textile reinforced EPDM

Operating Parameters

Temperature Range:

-40°F to +300°F (-40°C to +149°C) Decrease working pressure one percent for every 2°F above 212°F.

Operating pressures shown are for non-impulse service

All ratings based on 73°F/23°C

Fittings

PAGE Fittings – pg. E-71

Uses crimp collar RC300, see pg. E-72

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at www.parker.com/crimpsource

Notes

Available from PAGE Business Unit, Ft. Worth, Texas (817) 624-1329 or email page@parker.com

RCTB - Special order only

See pg. A-21 for part numbering system

Cannot be used with 90 or 91N series fittings

[illegible]

Tubing



Thermoplastic

Polyethylene

Nylon

Polypropylene

Polyurethane

Clear Vinyl

Fluoropolymer

PTFE

FEP

PFA

PVDF

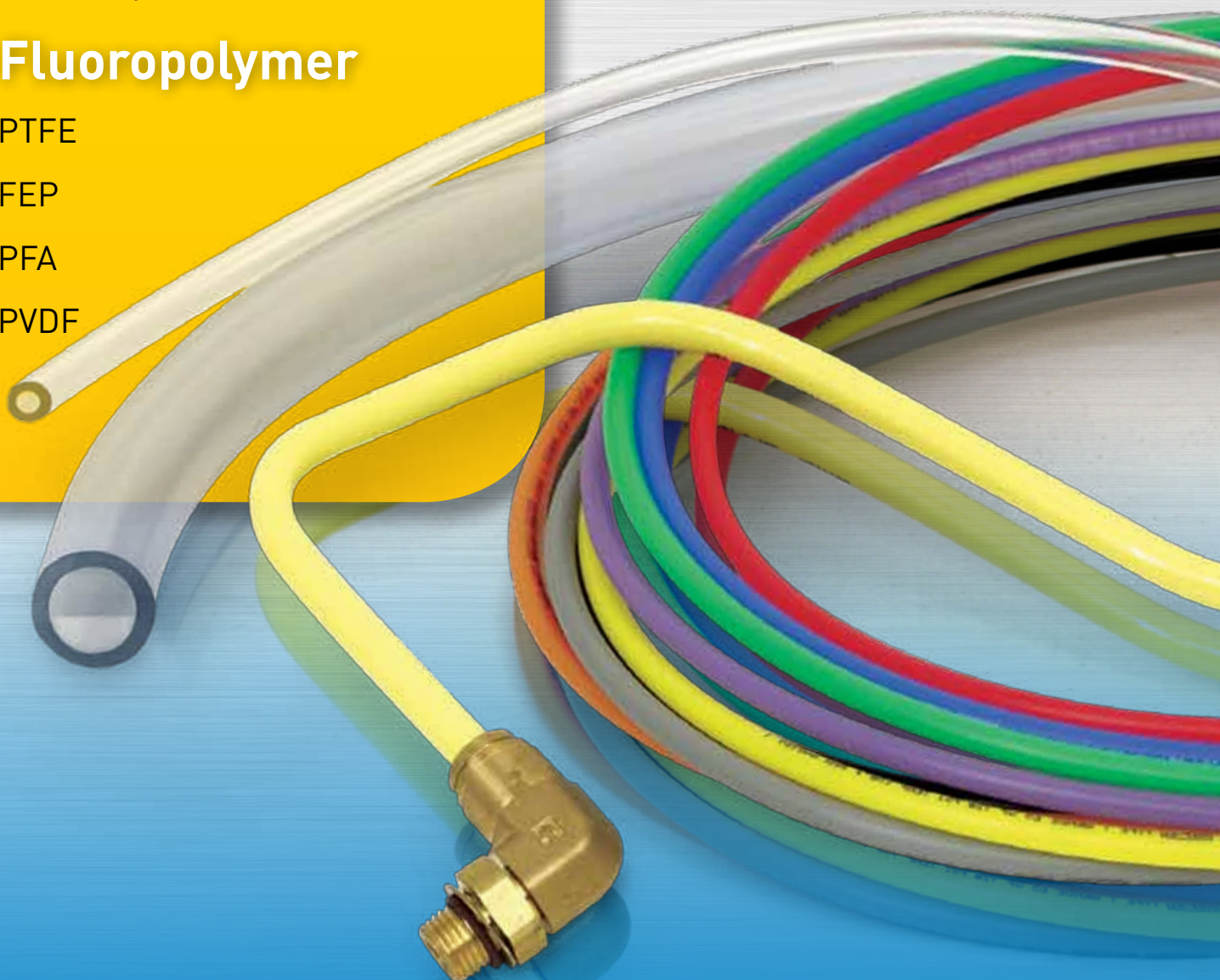


Table of Contents

Introduction

| | |
|----------------------------------------------------|-----------|
| Intro | B-4 : B-5 |
| Tubing Compatibility Chart Material Overview | B-5 |

Polyethylene Tubing

| | |
|------------------------------------|------|
| Fractional – Series E..... | B-8 |
| Metric – Series E | B-10 |
| Flame Resistant – Series PEFR..... | B-12 |
| High Density – Series HDPE..... | B-14 |

Nylon Tubing

| | |
|-------------------------------------|------|
| Fractional – Series N | B-16 |
| Metric – Series N | B-18 |
| Pure Air Tubing – Series PAT | B-20 |
| Semi-rigid Tubing – Series NR | B-22 |
| Series NTNA..... | B-24 |

Polypropylene Tubing

| | |
|------------------------------------------------|------|
| Laboratory Grade – Series PP..... | B-26 |
| Ultraviolet Light Resistant – Series PPB | B-26 |

Polyurethane Tubing

| | |
|--------------------------------------------|------|
| Fractional Polyether Base – Series U | B-28 |
| Metric Polyether Base – Series UM..... | B-30 |
| HUFR MicroWeld™ – Series HUFR..... | B-32 |
| Fractional – Series HU..... | B-34 |
| Metric Series HUM | B-36 |

Clear Vinyl Tubing

| | |
|--------------------------------------|------|
| Clear Vinyl Tubing – Series PV | B-39 |
|--------------------------------------|------|



Fluoropolymer Tubing

Introduction

| | |
|----------------------------------|-------------|
| Intro | B-42 : B-47 |
| Material Overview..... | B-44 |
| Fluoropolymer Nomenclature | B-46 |

PTFE Tubing

| | |
|------------------------------------------------------------------------------|------|
| AWG – Series TFH, TFS, TFT, TFL | B-50 |
| Fractional – Series TFS, TFT, TFL..... | B-48 |
| Fractional – Series 101 | B-56 |
| Metric – Series 201..... | B-58 |
| Beading - Series TFB | B-60 |
| PTFE Fractional Heat Shrink - Series HS2TFS, HS2TFT, HS2TFL, HS2TFI | B-62 |
| PTFE AWG 2:1 Heat Shrink - Series HS2TFS, HS2TFT, HS2TFL | B-64 |
| PTFE AWG 4:1 Heat Shrink - Series HS4TFI | B-68 |

FEP Tubing

| | |
|-------------------------------------------------|------|
| Fractional – Series 103 | B-70 |
| Metric – Series 203..... | B-72 |
| FEP 1.3:1 Heat Shrink - Series HS1.3FEP | B-74 |
| FEP 1.67:1 Heat Shrink - Series HS1.67FEP | B-76 |

PFA Tubing

| | |
|-------------------------------|------|
| Fractional – Series 104 | B-78 |
| Metric – Series 204..... | B-80 |

PVDF Tubing

| | |
|--------------------------------|------|
| Flex™– Series 110..... | B-82 |
| Super-Flex® – Series 111 | B-84 |

Parflex Tubing Introduction

Parflex Tubing Tutorial

- Review the general attributes of Parflex thermoplastic and fluoropolymer tubing – this provides an excellent overview for the tubing product line.
- Review the symbols pages - this will help you clear up any questions you may have on the product tables within the section. The market/applications table identifies and provides a “good fit” summary.
- Review the pressure bar graph - provides relative pressure ratings for the entire line of thermoplastic tubing. For fluoropolymer tubing, please contact your Customer Service Representative.
- Review the STAMPED guide (Size, Temperature, Media, Application, Pressure, End Configuration, and Delivery Preferences) on page 11 to help narrow your search for the desired product.
- Specific nomenclature, features, advantages and benefits can be found at the beginning page of each product line.
- Text appears in 2 colors. The primary dimensions are in black. As courtesy, the metric/inch equivalent has been added and appears in blue.

Tube Line Fabrication Guide for Leak Free Systems

Every hydraulic, pneumatic and lubrication system requires some form of tube line fabrication and fitting installation for completion. Proper fabrication and installation are essential for the overall efficiency, leak free performance and general appearance of any system.

Start by planning ahead. After sizing the tube lines and selecting the appropriate style of fitting, consider the following in the design of your system:

- Accessibility of joints
- Proper routing of lines
- Adequate tube line supports
- Available fabricating tools

Routing of Lines

Routing of lines is probably the most difficult, yet most significant, of these system design considerations. Proper routing involves getting a connecting line from one point to another through the most logical path.

Always try to leave fitting joints as accessible as possible. Hard to reach joints are hard to assemble and tighten properly. Inaccessible joints are also more difficult and time consuming to service.

Applications/Markets

Product applications for all pertinent markets



Transportation



Mobile Hydraulics



Industrial Pneumatic



Industrial Hydraulics



Fluid Handling




Life Science



Food & Beverage

Parflex Tubing Introduction

Tubing Compatibility Chart Parker Tubing / Hose Capability with Parker FSC Fittings

| <div></div> <div>Parker Tubing Compatibility with Parker FSC Fittings</div> | | | Thermoplastic Tubing | | | | | | | | | | | | | | Fluoropolymer Tubing | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------------------|---------------------------------|-------------------------------------------------------|-----------------------------------|--------------------------------|------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------|---------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------|
| | | | Industrial Tubing Series (Outside Diameter Shown) | | | | | | | | | | Transportation Tubing | | | | | | | | | |
| | | | Polyethylene E & EB Inch (4.5,6.8,10) Metric (6.8,10,12) | Polyethylene PEFR Inch (2.5,4,6,8) | Polyethylene HDPE Inch (4,6) | Nylon N Inch (2.2,5,3,4,5,6,8) Metric (4mm - 20mm) | Nylon PAT Inch (2.4,6,8,10,12) | Nylon NR Inch (2.3,4,5,6,8) | Nylon NT Inch (2.2,5,3,4,5,6,8) | Polypropylene PP & PPB Inch (2.2,5,3,4,5,6,8) | Polyurethane U & UM (90 - 95 Shore A) Inch (2.3,4,6,8,9,12) Metric (4.6,8,10,12) | Polyurethane HU & HUM (95 Shore A) Inch (2.2,5,4,6,8,12) Metric (4.6,8,10,12) | Polyurethane HUFER (MicroWeld Tubing) Inch (4,6,8) | Clear Vinyl Inch (1/8" - 2 1/2") | 1120/1220 Air Brake (SAE J864) Inch (2.2,5,3,4,5,6,8,10,12) | Air Brake DIN 74324 (Nylon 12) Metric (4.6,8,10,12,15,16,18) | PFT Diesel Fuel Sizes 4,6,8,10,12 | HTFL Diesel Fuel Sizes 4,6,8,10,12 | PFA Fluoropolymer Inch (3/32" - 1") Metric (4mm - 12mm) | FEP Fluoropolymer Inch (1/8" - 1") Metric (3mm - 12mm) | PTFE Fluoropolymer Inch (3/32" - 1 1/4") Metric (3mm - 16mm) | PVDF Fluoropolymer Inch (2.3,4,5,6,8,10,12,16) |
| Product Sizes (Inch) | | | | | | | | | | | | | | | | | | | | | | |
| Compression & Flare | Compression | Inch (2,3,4,5,6,7,8,10,12,14) | PS | PS | PS | PS | PS | PS | PS | PS | | | | | | | | | PS | PS | PS | PS |
| | Compress-Align® | Inch (2,3,4,5,6,8,10,12,14,16) | TS | TS | TS | TS | TS | TS | TS | TS | | | | | | | | | TS | TS | TS | TS |
| | Metru-Lok™ | Metric (4,6,8,10,12,14,16,18,22) | TS | - | - | TS | - | - | - | - | | | | | | | | | | | | |
| | Poly-Tite | Inch (2,3,4,5,6,8) | | | | BS | BS | BS | BS | BS | | | | | | | | | | | | |
| | Hi-Duty | Inch (2,3,4,5,6,8,10) | TS | TS | TS | TS | TS | TS | TS | TS | | | | | | | | | | | | |
| | 45 degree flare | Inch (2,3,4,5,6,8,10,12,14) | | | | | | | | | | | | | | | | | | | | |
| | Inverted Flare | Inch (2,3,4,5,6,8,10,12,14) | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| | Fast & Tite | Inch (4,5,6,8,10) | TS | TS | TS | TS | TS | TS | TS | TS | TS | TS | | TS | | | | | TS | TS | TS | - |
| Push-to-Connect | Flow Controls | Inch (2,2.5,4,5,6,8) Metric (4,6,8,10,12) | | | | | | | | | | | | | | | | | | | | |
| | Prestolok Brass | Inch (2,2.5,3,4,5,6,8) Metric (4,5,6,8,10,12,14) | | | | | | | | | | | | | | | | | | | | |
| | Prestolok Composite | Inch (2,2.5,3,4,5,6,8) Metric (4,5,6,8,10,12,14) | | | | | | | | | | | | | | | | | | | | |
| | Prestoweld | Inch (4,5,6,8) | - | | | | | | | | | | | | | | | | | | | |
| | Global Connect | Inch (2,2.5,3,4,5,6,8) Metric (4,6,8,10,12) | | | | | | | | | | | | | | | | | | | | |
| | Liquifit | Inch (4,6,8) | | | | | | | | | | | | | | | | | | | | |
| | TrueSeal™ | Inch (4,5,6,8) | | | | | | | | | TS | TS | | TS | | | | | | | | |
| | Par-Barb® | Inch (2,3,4,5,6,8,10,12) | - | - | - | - | - | - | - | - | CL | | | CL | | | | | | | | |
| Barb | Dubi-Barb® | Inch (2.5,4,6,8) | | | | | | | | | | | | | | | | | | | | |
| | Hose Barb | Inch (2,3,4,5,6,8,10,12,16) Inside Diameter | | | | | | | | | | | | CL | | | | | | | | |
| | Garden Hose | | | | | | | | | | | | | CL | | | | | | | | |
| DOT Transportation | NTA® | Inch (3,4,6,8,10,12) | | | | | | | | | | | | | | | | | | | | |
| | Transmission Fittings | Inch (2,2.5) | | | | | | | | | | | | | | | | | | | | |
| | Air Brake | Inch (4,6,8,10,12,16) | | | | | | | | | | | | | | | | | | | | |
| | Air Brake Hose | Inch (6,8) | | | | | | | | | | | | | | | | | | | | |
| | Vibra-Lok | Inch (2,3,4,5,6,8,10,12) | | | | | | | | | | | | | | | | | | | | |
| | Prestomatic | Inch (2,2.5,3,4,6,8,10,12) Metric (6,8,10,12,16) | | | | | | | | | | | | | | | | | | | | |
| | PTC | Inch (4,6,8,10,12) | | | | | | | | | | | | | | | | | | | | |
| | SAE Cartridges | Inch (2.5,4,6,8,10,12) | | | | | | | | | | | | | | | | | | | | |
| | Manifolds | Inch (4,6,8) | | | | | | | | | | | | | | | | | | | | |

For detailed ordering information, please consult price list or contact Parflex® Division.



Thermoplastic Tubing

Tubing
Thermoplastic
B

Polyethylene

- Parflex polyethylene tubing meets FDA, NSF Standard 51 for all food contact applications and NSF-61 for potable water applications.
- E-Series tubing is made of 100% virgin resin material.
- Polyethylene tubing meets ASTM D-1693 (10% IGEPAL) for stress crack resistance.
- Parflex also offers special PE tubing: PEFR (flame retardant) and HDPE (high density).

Nylon

- Flexible nylon tubing is constructed of high-grade resins for strength and flexibility for routing in tight spaces.
- Semi-rigid high strength nylon is constructed of high-grade resins without the addition of plasticizers for higher pressure tubing applications.
- Pure Air Tubing (PAT) is the tubing choice for pure air systems (semiconductor) due to its cleanliness; in addition, it offers excellent chemical and UV light resistance.
- NTNA Tubing meets NSF Standard 51 for all food contact applications and may be used for instrumentation lines, lubrication and process piping systems and oil and refrigerant lines.

Polypropylene

- Polypropylene tubing meets FDA, NSF Standard 51 for all food contact applications.
- Polypropylene tubing exhibits excellent chemical resistance to chlorinated water applications.
- Black Polypropylene tubing is commonly used in outdoor applications where UV light stabilization is required.

Polyurethane

- Polyurethane tubing is a flexible, kink-resistant and abrasion-resistant material commonly used in pneumatic applications.
- Polyurethane is available in multiple transparent and opaque colors for system color coding.
- Polyurethane is available in the following durometers (measurement of material hardness):
 - Medium durometer: (90 – 95)
 - High durometer: (>95) for higher pressures

Polyvinyl Chloride (PVC)

- PVC tubing is made from 100% virgin resin material and meets all FDA specifications for materials in contact with food and drugs.
- PVC tubing is a very flexible, 70 durometer tubing. It is crystal-clear and ideal for situations where visible fluid flow is necessary (i.e. sight gauges for tank identification).

**All plastic tubing dimensions are laser monitored to ensure overall quality product.
Most tubing sizes are packaged in convenient 100-ft., 250-ft., 500-ft. and 1,000-ft. lengths.**

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

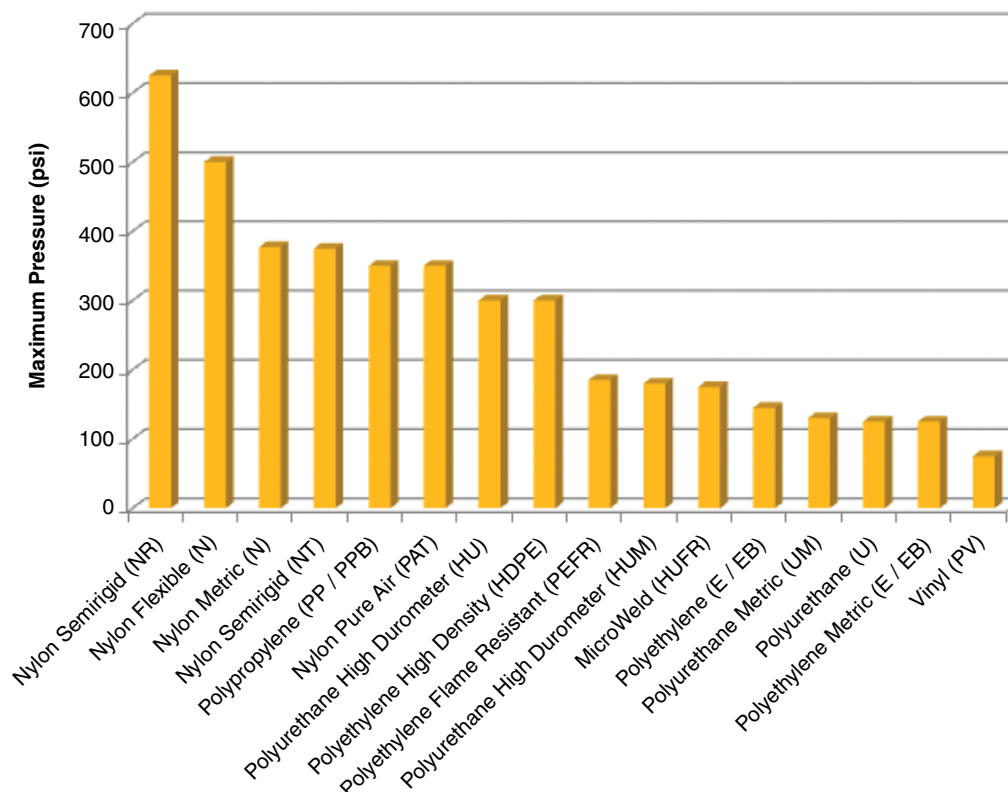
General Technical
G



Thermoplastic Tubing

| Product Family | Series | Suggested Markets and Applications |
|---------------------------|------------|--------------------------------------------------------------------------------------------------|
| Polyethylene | E and EB | Potable water, chemical transfer, and low-cost, low-pressure pneumatics, NSF-51 & NSF- 61 |
| | PEFR | Pneumatic controls in HVAC |
| High Density Polyethylene | HDPE | Chemical transfer and low-cost pneumatics |
| Nylon | N | Pneumatic and petroleum-based chemical transfer |
| | PAT | Pure air and gas distribution systems, semiconductor |
| | NR | High pressure pneumatic, low pressure lubrication and hydraulic, marine control systems |
| | NTNA | Instrumentation lines, lubrication and process piping systems, oil and refrigerant lines, NSF-51 |
| Polypropylene | PP and PPB | Food contact and chemical transfer applications, chlorinated water, NSF-51 |
| Urethane | U and UM | Pneumatic controls requiring high flexibility, kink resistance and movement |
| | HU and HUM | High-pressure pneumatics requiring flexibility and kink resistance, robotics |
| Vinyl | PV | Low-pressure chemical and medical applications requiring high clarity and flexibility, FDA |

Tubing Pressure Ranges



Working pressures are at 73°F (23°C). Pressure ratings are also effected by diameter of tubing and wall thickness. Actual performance may vary with different media and working conditions. Use this information for comparison only.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



B-7

Tubing
Thermoplastic
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

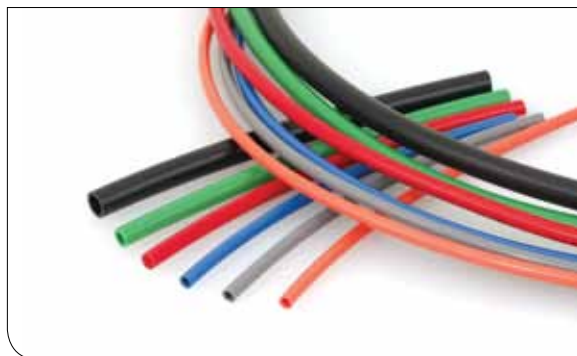
Tooling, Equipment
& Accessories
F

General Technical
G

Polyethylene Tubing

Series E: Instrument Grade – FDA, NSF Listed

Series EB: Ultraviolet Light Resistant



Features

- Made from 100% virgin resin material
- Chemically resistant and flexible
- High molecular weight resin provides increased dimensional stability, uniformity and long-term strength
- Economical system solution

Certifications

- FDA compliant for food contact
- ASTM D-1693 (10% IGEPAL) for stress crack resistance
- NSF – 51
- NSF – 61

Applications/Markets



- Potable water
- Chemical transfer
- Low-pressure pneumatics

| Part Number | Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Package Quantity | Minimum Bend Radius | | Weight | |
|-------------|-------------|-----------|------|-----------|------|------------------------|-----|---------------------------------|------|------------------------------|------|-------------------------------------------|---------------------|-------|----------|----------|
| # | # | | | | | | | | | | | Package quantities vary by size and color | | | | |
| Natural | Black | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| E-43-XXXX | EB-43-XXXX | 1/4 | 6.4 | .170 | 4.3 | .040 | 1.0 | 120 | 8.3 | 480 | 33.1 | 0100, 0500, 1000 | 1.00 | 25.4 | .011 | .016 |
| E-53-XXXX | EB-53-XXXX | 5/16 | 7.9 | .187 | 4.8 | .062 | 1.6 | 145 | 10.0 | 580 | 40.0 | 0100, 0500 | 1.13 | 28.7 | .020 | .030 |
| E-64-XXXX | EB-64-XXXX | 3/8 | 9.5 | .250 | 6.4 | .062 | 1.6 | 125 | 8.6 | 500 | 34.5 | 0100, 0500 | 1.25 | 31.8 | .025 | .037 |
| E-86-XXXX | EB-86-XXXX | 1/2 | 12.7 | .375 | 9.5 | .062 | 1.6 | 90 | 6.2 | 360 | 24.8 | 0100, 0500 | 2.50 | 63.5 | .034 | .051 |
| E-108-XXXX | EB-108-XXXX | 5/8 | 15.9 | .500 | 12.7 | .062 | 1.6 | 70 | 4.8 | 280 | 19.3 | 0100 | 4.00 | 101.6 | .044 | .065 |

Standard black is not NSF approved.



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: E-64-Y-0500

E-64-Y-0500 – Polyethylene

E-64-Y-0500 – **Tube O.D.** in sixteenths of an inch (**3/8"**)

E-64-Y-0500 – **Tube I.D.** in sixteenths of an inch (**.250"**)


E-64-**Y**-0500 – **Color**, i.e. **Yellow** (Omit for Natural and Black)

E-64-0500 – Natural Polyethylene

EB-64-0500 – Black Polyethylene

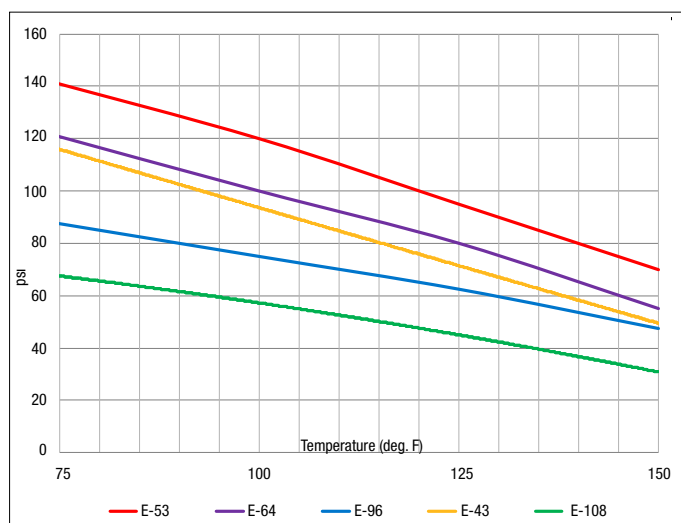
E-64-Y-**0500** – **Package Quantity** in feet (**500'**)

Available in black as well as nine other colors, as recommended by the Instrument Society of America

| Color Code | | |
|-------------------------------------------------------------------------------------|-----|---------|
|  | - | Natural |
|  | - | Black |
|  | B | Blue |
|  | G | Green |
|  | O | Orange |
|  | P | Purple |
|  | R | Red |
|  | GRA | Gray |
|  | Y | Yellow |
|  | WHT | White |

Polyethylene Tubing (Series E)

Maximum Working Pressure (psig)



For detailed ordering information, please consult price list or contact Parflex® Division.

Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- Liquifit
- TrueSeal™
- Dubl-Barb®
- Prestomatic
- SAE Cartridge

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- FDA, NSF-51 and NSF-61 compliant black polyethylene tubing is also available. Add -NSF suffix to the EB part number (ie. EB-64-0500-NSF)
- E series natural and colored tubing meet FDA, NSF-51 requirements for food contact applications and NSF-61 for potable water
- Resistant to environmental stress cracking exceeding that of ordinary polyethylene tubing as measured by ASTM D-1693 (10% IGEPAI)
- Black (EB) tubing contains an ultraviolet inhibitor which is recommended for use in sunlit areas and in close proximity to high ultraviolet light sources
- All tubing conforms to ASTM D-1248, Type I, Class A, Category 4, Grade E5
- The recommended operating temperature range for service at rated pressures with compatible fluids is -80°F (-62°C) to +150°F (+66°C)

Colors

- See Color Code Table



Metric Polyethylene Tubing

Series E: Instrument Grade – FDA, NSF Listed

Series EB: Ultraviolet Light Resistant



Features

- Made from 100% virgin resin material
- Chemically resistant and flexible
- High molecular weight resin provides increased dimensional stability, uniformity and long-term strength
- Economical system solution

Certifications

- FDA compliant for food contact
- ASTM D-1693 (10% IGEPAL) for stress crack resistance
- NSF – 51
- NSF – 61

Applications/Markets



- Potable water
- Chemical transfer
- Low-pressure pneumatics

| Part Number | Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Package Quantity | Minimum Bend Radius | | Weight | |
|---------------|----------------|-----------|------|-----------|------|------------------------|------|---------------------------------|-----|------------------------------|-----|------------------|---------------------|------|----------|----------|
| # | # | | | | | | | | | | | | | | | |
| Natural | Black | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | feet | mm | inch | kg./mtr. | lbs./ft. |
| E-6X1-0100 | EB-6X1-0100 | 6 | .236 | 4 | .157 | 1.00 | .039 | 8.6 | 125 | 34.5 | 500 | 0100 | 25 | 1.00 | .019 | .013 |
| E-8X1-0100 | EB-8X1-0100 | 8 | .315 | 6 | .236 | 1.00 | .039 | 6.9 | 100 | 27.6 | 400 | 0100 | 38 | 1.50 | .021 | .014 |
| E-10X1.5-0100 | EB-10X1.5-0100 | 10 | .393 | 7 | .276 | 1.50 | .059 | 8.6 | 125 | 34.5 | 500 | 0100 | 38 | 1.50 | .039 | .026 |
| E-12X1.5-0100 | EB-12X1.5-0100 | 12 | .472 | 9 | .354 | 1.50 | .059 | 6.2 | 100 | 24.8 | 400 | 0100 | 63 | 2.50 | .048 | .032 |

Standard black is not NSF approved.



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: E-8x1-0100

E-8x1-0100 – Metric Polyethylene (Natural)

EB-8x1-0100 – Metric Polyethylene (Black)

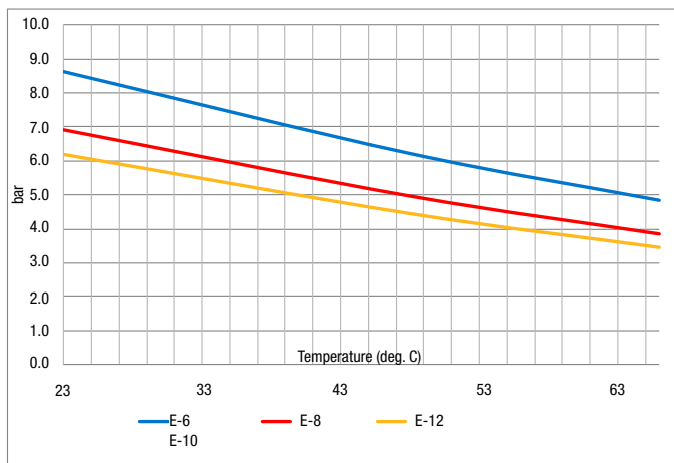
E-8x1-0100 – Tube O.D. in millimeters (8 mm)

E-8x1-0100 – Tube Wall Thickness in millimeters (1 mm)

E-8x1-0100 – Package Quantity in feet (100')

Metric Polyethylene Tubing (Series E)

Maximum Working Pressure (bar)



Fitting Recommendations

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Metru-Lok™
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- Prestomatic

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- E series natural and colored tubing listed below meet FDA, NSF-51 requirements for food contact applications and NSF-61 for potable water
- Resistant to environmental stress cracking exceeding that of ordinary polyethylene tubing as measured by ASTM D-1693 (10% IGEPAL)
- Black (EB) tubing contains an ultraviolet inhibitor which is recommended for use in sunlit areas and in close proximity to high ultraviolet light sources
- All tubing conforms to ASTM D-1248, Type I, Class A, Category 4, Grade E5
- The recommended operating temperature range for service at rated pressures with compatible fluids is -62°C (-80°F) to +66°C (+150°F)

Colors

- Natural
- Black

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



B-11

A
Hose

B
Tubing
Thermoplastic

C
Coiled Air Hose
& Fittings

D
Transportation

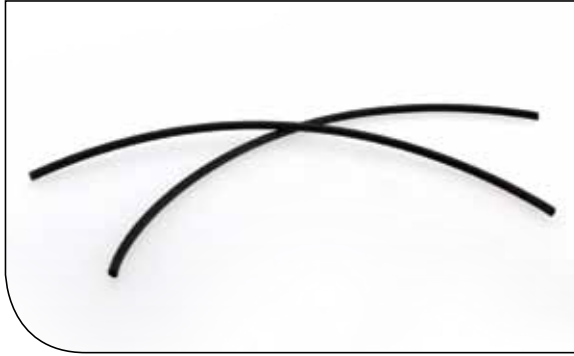
E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Polyethylene Tubing

Series PEFR: Flame Resistant



Features

- Excellent stress crack resistance

Certifications

- UL 94 V-2
- ASTM D-1693 (10% IGEPAL) for stress crack resistance

Applications/Markets



- Pneumatic controls in HVAC applications
- Weld spatter/spark environments

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F /23°C | | Minimum Burst at 73°F /23°C | | Package Quantity | Minimum Bend Radius | | Weight | |
|---------------|-----------|------|-----------|-----|------------------------|------|--------------------------------|------|-----------------------------|------|------------------|---------------------|------|----------|----------|
| # | | | | | | | | | | | | | | | |
| Black | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| PEFR-2.5-XXXX | 5/32 | 4.0 | .096 | 2.4 | .030 | 0.76 | 185 | 12.8 | 740 | 51.0 | 0500 | .50 | 12.7 | .006 | .009 |
| PEFR-4-XXXX | 1/4 | 6.4 | .170 | 4.3 | .040 | 1.0 | 140 | 9.7 | 560 | 38.6 | 0500, 1000 | .75 | 17.4 | .012 | .018 |
| PEFR-6-XXXX | 3/8 | 9.5 | .250 | 6.4 | .062 | 1.6 | 155 | 10.7 | 620 | 42.8 | 0500 | 1.50 | 36.1 | .029 | .043 |
| PEFR-8-XXXX | 1/2 | 12.7 | .375 | 9.5 | .062 | 1.6 | 100 | 6.9 | 400 | 27.6 | 0250 | 1.75 | 39.1 | .041 | .061 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

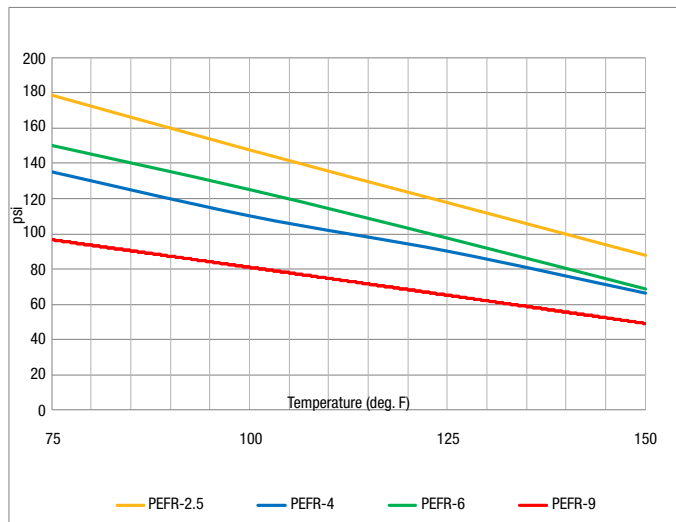
Example: PEFR-4-0500

PEFR-4-0500 – Flame Resistant Polyethylene

PEFR-**4**-0500 – **Tube O.D.** in sixteenths of an inch (**1/4"**)

PEFR-4-**0500** – **Package Quantity** in feet (**500'**)

Flame Resistant Polyethylene Tubing (Series PEFR) Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

- FSC Product Families:
- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- Dubl-Barb®

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

Using the same base linear low-density polyethylene (LLDPE) as the E-Series tubing, Parker Hannifin, Parflex Division's PEFR tubing has the following advantages:

- Resistant to environmental stress cracking exceeding that of ordinary polyethylene tubing as measured by ASTM D-1693 (10% IGEPAL)
- The recommended operating temperature range for service at rated pressures with compatible fluids is -85°F (-65°C) to +150°F (+66°C).

Colors

- Black

Polyethylene Tubing

Series HDPE: High Density



Features

- Manufactured from high strength, high density polyethylene
- Semi-rigid tubing that is inherently resistant to most chemicals, less easily cut or damaged and has a higher burst pressure rating than Series E tubing
- Economical system solution

Applications/Markets



- Chemical transfer
- Low-pressure pneumatics

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Package Quantity | Minimum Bend Radius | | Weight | |
|--------------|-----------|-----|-----------|-----|------------------------|-----|---------------------------------|------|------------------------------|------|------------------|---------------------|------|----------|----------|
| # | | | | | | | | | | | | | | | |
| Black | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| HDPE-43-XXXX | 1/4 | 6.4 | .170 | 4.3 | .040 | 1.0 | 300 | 20.7 | 1200 | 82.7 | 0250, 0500 | 1.50 | 38.1 | .011 | .016 |
| HDPE-64-XXXX | 3/8 | 8.5 | .250 | 6.4 | .062 | 1.6 | 300 | 20.7 | 1200 | 82.7 | 0250, 0500 | 2.50 | 63.5 | .025 | .037 |

Only available in black.



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: HDPE-43-0500

HDPE-43-0500 – High Density Polyethylene

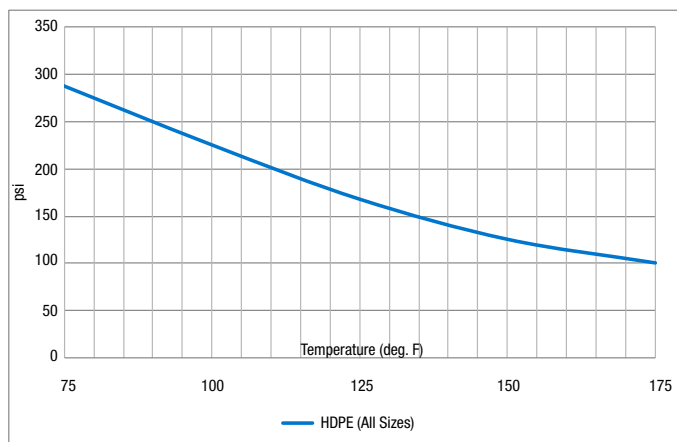
HDPE-**43**-0500 – **Tube O.D.** in sixteenths of an inch (**1/4"**)

HDPE-**43**-0500 – **Tube I.D.** in sixteenths of an inch (**.170"**)

HDPE-43-**0500** – **Package Quantity** in feet (**500'**)

High Density Polyethylene Tubing (Series HDPE)

Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

- FSC Product Families:
- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

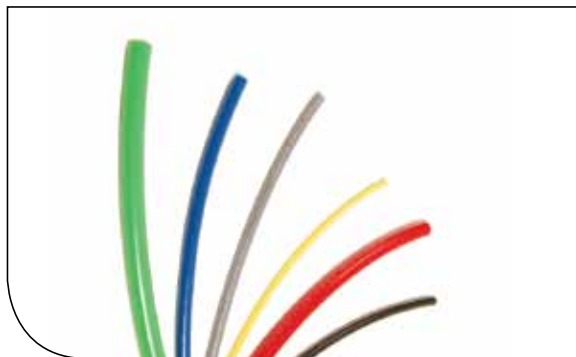
- Recommended operating temperature range for service at rated pressures with compatible fluids is -80°F (-62°C) to +175°F (+80°C).

Colors

- Black

Nylon Tubing

Series N: Flexible



Features

- Flexible nylon tubing uses high-grade resins for strength and flexibility for routing in tight spaces
- Made from abrasion-resistant, heat and light-stabilized nylon
- Exhibits low-level water absorption
- Chemically resistant

Certifications

- UL94HB
(Natural only in wall thickness greater than .033")

Applications/Markets



- Robotics
- Machine tool
- General pneumatics
- Lubrication
- Petroleum-based chemical transfer
- Pest control lines

| Part Number | Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Minimum Bend Radius | | Weight | |
|-------------|-------------|-----------|------|-----------|-----|------------------------|------|---------------------------------|------|------------------------------|-------|-------------|---------------------|------|----------|----------|
| # | # | | | | | | | | | | | | | | | |
| Natural | Black | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| NN-2-016 | NB-2-016 | 1/8 | 3.2 | .093 | 2.4 | .016 | 0.41 | 250 | 17.2 | 1000 | 69.0 | 0100, 0250 | .25 | 4.6 | .003 | .005 |
| NN-2-031 | NB-2-031 | 1/8 | 3.2 | .064 | 1.6 | .031 | 0.79 | 500 | 34.5 | 2000 | 137.9 | 0100, 0250 | .25 | 4.6 | .004 | .006 |
| NN-2.5-025 | NB-2.5-025 | 5/32 | 4.0 | .106 | 2.7 | .025 | 0.64 | 300 | 20.7 | 1200 | 82.7 | 0100, 0250 | .50 | 12.7 | .005 | .007 |
| NN-3-025 | NB-3-025 | 3/16 | 4.8 | .138 | 3.5 | .025 | 0.64 | 250 | 17.2 | 1000 | 69.0 | 0100, 0250 | .63 | 16.0 | .006 | .009 |
| NN-3-046 | NB-3-046 | 3/16 | 4.8 | .096 | 2.4 | .046 | 1.2 | 500 | 34.5 | 2000 | 137.9 | 0100, 0250 | .44 | 11.2 | .009 | .013 |
| NN-4-035 | NB-4-035 | 1/4 | 6.4 | .180 | 4.6 | .035 | 0.89 | 250 | 17.2 | 1000 | 69.0 | 0100, 0250 | .88 | 22.4 | .011 | .016 |
| NN-4-040 | NB-4-040 | 1/4 | 6.4 | .170 | 4.3 | .040 | 1.0 | 310 | 21.4 | 1250 | 86.2 | 0100, 0250 | .88 | 22.4 | .012 | .018 |
| NN-4-062 | NB-4-062 | 1/4 | 6.4 | .127 | 3.2 | .062 | 1.6 | 500 | 34.5 | 2000 | 137.9 | 0100, 0250 | .50 | 12.7 | .017 | .025 |
| NN-5-040 | NB-5-040 | 5/16 | 7.9 | .233 | 5.9 | .040 | 1.0 | 250 | 17.2 | 1000 | 69.0 | 0100, 0250 | 1.13 | 28.7 | .016 | .024 |
| NN-6-050 | NB-6-050 | 3/8 | 9.5 | .275 | 7.0 | .050 | 1.3 | 250 | 17.2 | 1000 | 69.0 | 0100, 0250 | 1.13 | 28.7 | .023 | .034 |
| NN-6-093 | NB-6-093 | 3/8 | 9.5 | .190 | 4.8 | .093 | 2.4 | 500 | 34.5 | 2000 | 137.9 | 0100, 0250 | .75 | 19.0 | .038 | .056 |
| NN-8-062 | NB-8-062 | 1/2 | 12.7 | .375 | 9.5 | .062 | 1.6 | 250 | 17.2 | 1000 | 69.0 | 0100, 0250 | 1.25 | 31.8 | .039 | .058 |
| NN-8-124 | NB-8-124 | 1/2 | 12.7 | .253 | 6.4 | .124 | 3.2 | 500 | 34.5 | 2000 | 137.9 | 0100, 0250 | 1.00 | 25.4 | .067 | .099 |

Order Information

Example: N-2-016-RED-0100

N-2-016-RED-0100 – Nylon

N-**2**-016-RED-0100 – **Tube O.D.** in sixteenths of an inch (**1/8"**)

N-2-**016**-RED-0100 – **Wall Thickness** in inches (**.016"**)

N-2-016-**RED**-0100 – **Colors** (Omit for Natural and Black)

NN-2-016-0100 - Natural Nylon

NB-2-016-0100 - Black Nylon

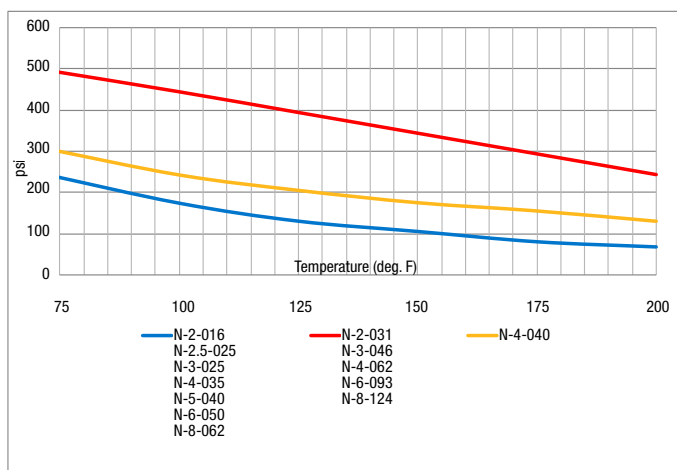
N-2-016-RED-**0100** – **Package Quantity** in feet (**100'**)

(Omit quantity number after color for 250' reel length)

| Color Code | | |
|------------|-----|---------|
| ○ | NN | Natural |
| ● | NB | Black |
| ● | BLU | Blue |
| ● | GRN | Green |
| ● | RED | Red |
| ● | YEL | Yellow |

Nylon Tubing (Series N)

Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- TrueSeal™
- NTA®
- Transmission
- Prestomatic
- SAE Cartridge

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- The recommended operating temperature range for service at rated pressures with compatible fluids, depending upon conditions, is -65°F (-54°C) to +200°F (+93°C)
- Black tubing suggested for use in sunlit areas and in close proximity to high ultraviolet light sources

Colors

- See Color Code Table

Metric Nylon Tubing

Series N: Flexible



Features

- Flexible nylon tubing uses high-grade resins for strength and flexibility for routing in tight spaces
- Made from abrasion-resistant, heat and light-stabilized nylon
- Exhibits low-level water absorption
- Chemically resistant

Certifications

- UL94HB
(Natural only in wall thickness of 1mm and greater)

Applications/Markets



- Robotics
- Machine tool
- General pneumatics
- Lubrication
- Petroleum-based chemical transfer
- Pest control lines

| Part Number | Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Weight | |
|-------------|-------------|-----------|------|-----------|------|------------------------|------|---------------------------------|-----|------------------------------|------|-------------|----------|----------|
| # | # | | | | | | | | | | | | | |
| Natural | Black | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | feet | kg./mtr. | lbs./ft. |
| NN4X.65 | NB4X.65 | 4 | .157 | 2.7 | .107 | 0.65 | .026 | 26.0 | 377 | 68 | 986 | 100 | .007 | .005 |
| NN6X1 | NB6X1 | 6 | .236 | 4.0 | .157 | 1.00 | .039 | 23.5 | 341 | 94 | 1363 | 100 | .016 | .011 |
| NN8X1 | NB8X1 | 8 | .315 | 6.0 | .236 | 1.00 | .039 | 17.0 | 247 | 68 | 986 | 100 | .024 | .016 |
| NN10X1 | NB10X1 | 10 | .393 | 8.0 | .315 | 1.00 | .039 | 12.5 | 181 | 50 | 725 | 100 | .030 | .020 |
| NN12X1 | NB12X1 | 12 | .472 | 10.0 | .393 | 1.00 | .039 | 11.0 | 160 | 44 | 638 | 100 | .036 | .024 |
| NN14X1.5 | NB14X1.5 | 14 | .551 | 11.0 | .433 | 1.50 | .059 | 15.0 | 218 | 60 | 870 | 100 | .063 | .042 |
| NN16X1.5 | NB16X1.5 | 16 | .630 | 13.0 | .512 | 1.50 | .059 | 12.5 | 181 | 50 | 725 | 100 | .073 | .049 |
| NN18X1.5 | NB18X1.5 | 18 | .709 | 15.0 | .591 | 1.50 | .059 | 10.5 | 152 | 42 | 609 | 100 | .082 | .055 |
| NN20X1.5 | NB20X1.5 | 20 | .787 | 17.0 | .669 | 1.50 | .059 | 9.5 | 138 | 38 | 551 | 100 | .092 | .062 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Order Information

Example: NN4x.65

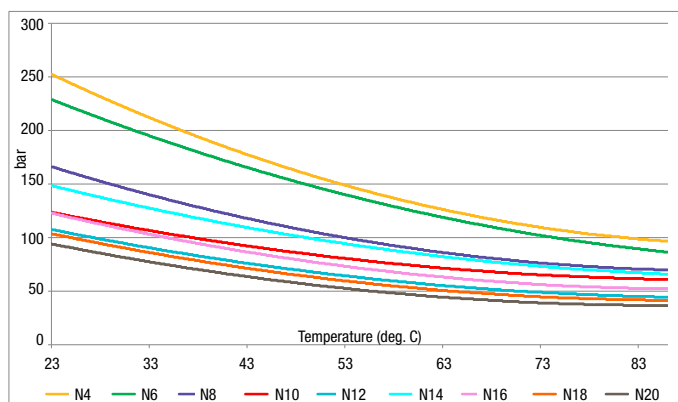
NN4x.65 – Natural Nylon

NN**4**x.65 – **Tube O.D.** in millimeters (**4mm**)

NN4x.**65** – **Wall Thickness** in millimeters (**0.65mm**)

Metric Nylon Tubing (Series N)

Maximum Working Pressure (bar)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Metru-Lok™
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- Prestomatic

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- The recommended operating temperature range for service at rated pressures with compatible fluids, depending upon conditions, is -54°C (-65°F) to +93°C (+200°F)
- Black tubing suggested for use in sunlit areas and in close proximity to high ultraviolet light sources

Colors

- Natural
- Black

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



Nylon Pure Air Tubing

Series PAT: Ultra Pure, UV Resistant



Features

- The tubing choice for pure air systems (semiconductor) due to its cleanliness and excellent chemical and UV light resistance
- Maintains good resistance to high ambient temperatures with low moisture absorption
- Manufactured from a specially formulated nylon for use in pure air and gas distribution systems
- Provides high tensile strength with excellent coupling retention in high pressure, temperature and vibration environments
- Sizes -2 and -4 are single wall tubing construction
- Sizes -6 through -12 are reinforced tubing construction

Applications/Markets



- Pure air and gas distribution systems
- Semi-conductor

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Minimum Bend Radius | | Weight | |
|-------------|-----------|------|-----------|------|------------------------|------|---------------------------------|------|------------------------------|------|-------------|---------------------|------|----------|----------|
| # | | | | | | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| PAT2 | 1/8 | 3.2 | .079 | 2.0 | .023 | 0.58 | 250 | 17.2 | 1000 | 69.0 | 1000 | .37 | 9.4 | .035 | .052 |
| PAT4 | 1/4 | 6.4 | .170 | 4.3 | .040 | 1.0 | 300 | 20.7 | 1200 | 82.7 | 1000 | 1.00 | 25.4 | .124 | .185 |
| PAT6 | 3/8 | 9.5 | .251 | 6.4 | .062 | 1.6 | 350 | 24.1 | 1400 | 96.4 | 500 | 1.50 | 38.1 | .282 | .420 |
| PAT8 | 1/2 | 12.7 | .376 | 9.6 | .062 | 1.6 | 235 | 16.2 | 950 | 65.5 | 500 | 2.00 | 50.8 | .395 | .588 |
| PAT10 | 5/8 | 15.9 | .441 | 11.2 | .092 | 2.3 | 225 | 15.5 | 900 | 62.1 | 250 | 2.50 | 63.5 | .702 | 1.04 |
| PAT12 | 3/4 | 19.1 | .566 | 14.4 | .092 | 2.3 | 200 | 13.8 | 800 | 55.2 | 250 | 3.00 | 76.2 | .872 | 1.30 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: PAT4-BLK-0250

PAT4-BLK-0250 – **Pure Air Tubing**

PAT**4**-BLK-0250 – **Tube O.D.** in sixteenths of an inch (**1/4"**)

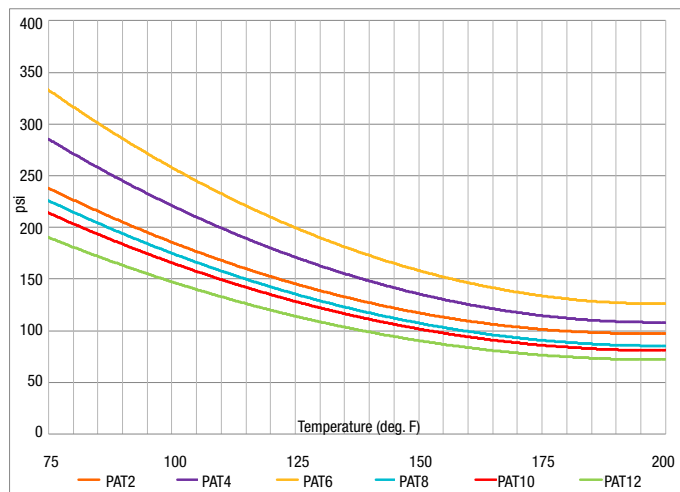
PAT4-**BLK**-0250 – **Color (Black)**

PAT4-BLK-**0250** – **Package Quantity** in feet (**250'**)

| Color Code | | |
|------------|-----|--------|
| ● | BLK | Black |
| ● | BRN | Brown |
| ● | SIL | Silver |

Pure Air Nylon Tubing (Series PAT)

Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- NTA®

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- Packaged on corrugated plastic reel with ends capped and shipped in a plastic-lined container
- The suggested operating temperature range for service at rated pressures with compatible fluids is -70°F (-57°C) to +200°F (+93°C)
- PAT tubing is rated for full vacuum service at 28 inch Hg

Colors

- See Color Code Table

Nylon Tubing

Series NR: Semi-rigid High Strength



Features

- High grade nylon resins without the addition of plasticizers for higher pressure tubing applications
- Better chemical resistance than Series N, good resistance to high ambient temperature and low moisture absorption
- High tensile strength and excellent coupling retention in high pressure, temperature and vibration environments

Certifications

- UL94HB
(Natural and Black only in wall thickness greater than .033")

Applications/Markets



- High-pressure pneumatics
- Lubrication systems
- Marine control systems
- Process lines for chemicals and oils

| Part Number | Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Minimum Bend Radius | | Weight | |
|-------------|-------------|-----------|------|-----------|-----|------------------------|------|---------------------------------|------|------------------------------|-------|-------------|---------------------|------|----------|----------|
| # | # | | | | | | | | | | | | | | | |
| Natural | Black | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| NNR-2-017 | NBR-2-017 | 1/8 | 3.2 | .091 | 2.3 | .017 | 0.43 | 425 | 29.3 | 1700 | 117.2 | 0100, 0500 | .50 | 12.7 | .003 | .005 |
| NNR-2-026 | NBR-2-026 | 1/8 | 3.2 | .073 | 1.9 | .026 | 0.66 | 625 | 43.1 | 2500 | 172.4 | 0100, 0500 | .38 | 9.7 | .004 | .006 |
| NNR-3-024 | NBR-3-024 | 3/16 | 4.8 | .140 | 3.6 | .024 | 0.61 | 425 | 29.3 | 1700 | 117.2 | 0100, 0500 | .75 | 19.0 | .006 | .009 |
| NNR-3-039 | NBR-3-039 | 3/16 | 4.8 | .110 | 2.8 | .039 | 0.99 | 625 | 43.1 | 2500 | 172.4 | 0100, 0500 | .63 | 16.0 | .008 | .012 |
| NNR-4-035 | NBR-4-035 | 1/4 | 6.4 | .180 | 4.6 | .035 | 0.89 | 425 | 29.3 | 1700 | 117.2 | 0100, 0250 | 1.00 | 25.4 | .011 | .016 |
| NNR-4-050 | NBR-4-050 | 1/4 | 6.4 | .150 | 3.9 | .050 | 1.3 | 625 | 43.1 | 2500 | 172.4 | 0100, 0250 | .88 | 22.3 | .014 | .021 |
| NNR-5-040 | NBR-5-040 | 5/16 | 7.9 | .233 | 5.9 | .040 | 1.0 | 425 | 29.3 | 1700 | 117.2 | 0100, 0250 | 1.50 | 38.1 | .015 | .022 |
| NNR-6-048 | NBR-6-048 | 3/8 | 9.5 | .279 | 7.1 | .048 | 1.2 | 425 | 29.3 | 1700 | 117.2 | 0100, 0250 | 1.75 | 44.5 | .022 | .033 |
| NNR-6-075 | NBR-6-075 | 3/8 | 9.5 | .225 | 5.7 | .075 | 1.9 | 625 | 43.1 | 2500 | 172.4 | 0100, 0250 | 1.50 | 38.1 | .032 | .048 |
| NNR-8-062 | NBR-8-062 | 1/2 | 12.7 | .375 | 9.5 | .062 | 1.6 | 350 | 29.3 | 1400 | 117.2 | 0100, 0250 | 2.38 | 60.5 | .038 | .057 |
| NNR-8-075 | NBR-8-075 | 1/2 | 12.7 | .350 | 8.9 | .075 | 1.9 | 625 | 43.1 | 2500 | 172.4 | 0100, 0250 | 2.50 | 63.5 | .045 | .067 |

Order Information

Example: NBR-2-017-0100

NBR-2-017-0100 – Nylon

NBR-2-017-0100 – Color (Black)

NBR-2-017-0100 – Rigid

NBR-2-017-0100 – Tube O.D. in sixteenths of an inch (**1/8"**)

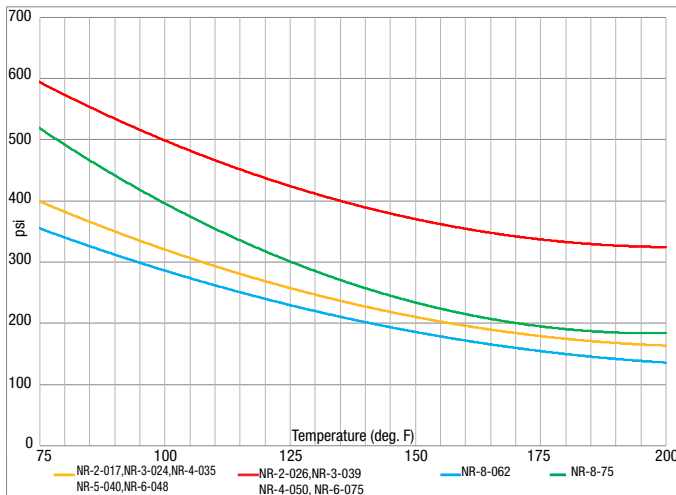
NBR-2-017-0100 – Wall Thickness in inches (**.017"**)

NBR-2-017-0100 – Package Quantity in feet (**100'**)

(Omit for other package quantities)

Semi-rigid Nylon Tubing (Series NR)

Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- TrueSeal™
- NTA®
- Transmission
- Prestomatic
- SAE Cartridge

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- Suggested operating temperature range for service at rated pressures with compatible fluids is -60°F (-51°C) to +200°F (+93°C)

Colors

- Natural
- Black

For detailed ordering information, please consult price list or contact Parflex® Division.

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Nylon Tubing

Series NTNA: Semi-rigid Nylon Tubing



Features

- High grade nylon resins without the addition of plasticizers
- High tensile strength and excellent coupling retention in high pressure, temperature and vibration environments
- Excellent chemical resistance
- Rugged construction resists vermin attack

Certifications

- NSF-51

Applications/Markets



- Instrumentation lines
- Lubrication systems
- Process piping systems
- Refrigerant lines

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Minimum Bend Radius | | Weight | |
|-------------|-----------|------|-----------|-----|------------------------|-----|---------------------------------|------|------------------------------|-------|-------------|---------------------|------|----------|----------|
| # | | | | | | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| 22NTNA | 1/8 | 3.2 | .091 | 2.3 | .017 | 0.4 | 375 | 25.9 | 1,500 | 103.4 | 500 | 0.50 | 12.7 | .003 | .005 |
| 532NTNA | 5/32 | 4.0 | .113 | 2.9 | .022 | 0.6 | 375 | 25.9 | 1,500 | 103.4 | 500 | 0.63 | 16.0 | .004 | .006 |
| 33NTNA | 3/16 | 4.8 | .139 | 3.5 | .024 | 0.6 | 375 | 25.9 | 1,500 | 103.4 | 350 | 0.75 | 19.0 | .006 | .009 |
| 44NTNA | 1/4 | 6.4 | .184 | 4.7 | .033 | 0.8 | 375 | 25.9 | 1,500 | 103.4 | 200 | 1.00 | 25.4 | .010 | .015 |
| 55NTNA | 5/16 | 7.9 | .232 | 5.8 | .040 | 1.0 | 375 | 25.9 | 1,500 | 103.4 | 150 | 1.50 | 38.1 | .015 | .022 |
| 66NTNA | 3/8 | 9.5 | .282 | 7.1 | .048 | 1.2 | 375 | 25.9 | 1,500 | 103.4 | 100 | 1.75 | 44.4 | .022 | .033 |
| 88NTNA | 1/2 | 12.7 | .375 | 9.5 | .062 | 1.6 | 375 | 25.9 | 1,500 | 103.4 | 100 | 2.38 | 60.5 | .032 | .048 |



For detailed ordering information, please consult price list or contact Parflex® Division.

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Order Information

Example: 44NTNA

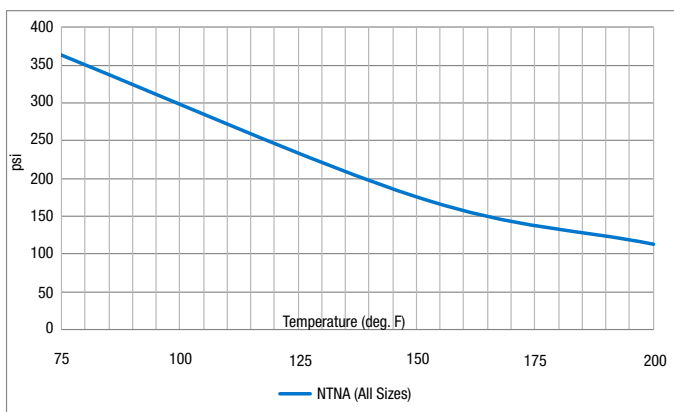
44NTNA – Tube O.D. in sixteenths of an inch (**1/4"**)

44**NT**NA – Nylon Tubing

44NT**NA** – Color (Natural)

Semi-rigid Nylon Tubing (Series NTNA)

Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- TrueSeal™

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- Suggested operating temperature range from -60°F to +212°F (-51°C to +100°C)

Colors

- Natural

Polypropylene Tubing

Series PP: Laboratory Grade – FDA, NSF Listed

Series PPB: Ultraviolet Light Resistant



Features

- Acid and chemically resistant
- May be used in higher temperatures and working pressures than polyethylene tubing
- Excellent compatibility with high temperature water
- Low water absorption (less than .01%)
- Good compatibility with vegetable oils
- Excellent resistance to environmental stress cracking

Certifications

- FDA Both in white; NSF also in
- NSF-51 special black part numbers

Applications/Markets



- Food contact - White only
- Chemical transfer
- Chlorinated water

| Part Number | Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Minimum Bend Radius | | Weight | |
|-------------|--------------|-----------|------|-----------|------|------------------------|------|---------------------------------|------|------------------------------|------|-------------|---------------------|-------|----------|----------|
| # | # | | | | | | | | | | | | | | | |
| White | Black | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| PP-21-1000 | PPB-21-1000 | 1/8 | 3.2 | .079 | 2.0 | .023 | 0.58 | 350 | 24.1 | 1400 | 96.4 | 1000 | .50 | 12.7 | .003 | .005 |
| PP-32-0500 | PPB-32-0500 | 3/16 | 4.8 | .120 | 3.1 | .034 | 0.86 | 350 | 24.1 | 1400 | 96.4 | 0500 | .75 | 14.4 | .006 | .009 |
| PP-43-0500 | PPB-43-0500 | 1/4 | 6.4 | .170 | 4.3 | .040 | 1.0 | 300 | 20.7 | 1200 | 82.7 | 0500 | 1.00 | 25.4 | .010 | .019 |
| PP-53-0500 | PPB-53-0500 | 5/16 | 7.9 | .188 | 4.8 | .062 | 1.6 | 350 | 24.1 | 1400 | 96.4 | 0500 | 1.25 | 31.8 | .019 | .028 |
| PP-64-0500 | PPB-64-0500 | 3/8 | 9.5 | .250 | 6.4 | .062 | 1.6 | 300 | 20.7 | 1200 | 82.7 | 0500 | 1.25 | 31.8 | .024 | .036 |
| PP-86-0250 | PPB-86-0250 | 1/2 | 12.7 | .375 | 9.5 | .062 | 1.6 | 225 | 15.5 | 900 | 62.1 | 0250 | 2.50 | 63.5 | .033 | .049 |
| PP-108-0100 | PPB-108-0100 | 5/8 | 15.9 | .500 | 12.7 | .062 | 1.6 | 175 | 12.1 | 700 | 48.3 | 0100 | 4.00 | 101.6 | .042 | .062 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Order Information

Example: PP-86-0250

PP-86-0250 – Polypropylene

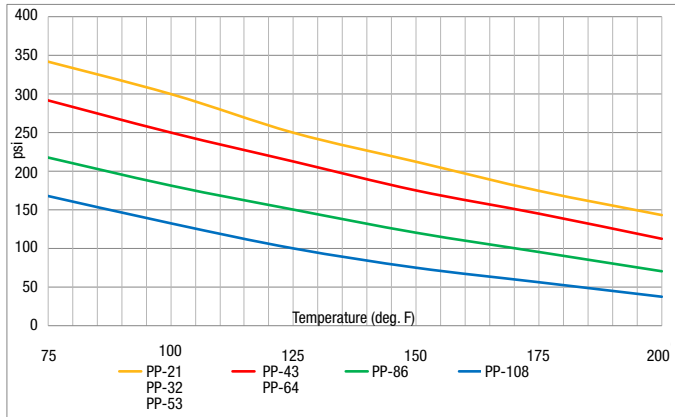
PP-**86**-0250 – **Tube O.D.** in sixteenths of an inch (**1/2"**)

PP-**86**-0250 – **Tube I.D.** in sixteenths of an inch (**.375"**)

PP-86-**0250** – **Package Quantity** in feet (**250'**)

Polypropylene Tubing (Series PP & PPB)

Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Global Connect
- Liquifit
- TrueSeal™

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- NSF black polypropylene tubing is available upon special request. Add -FDA suffix to PPB part number
- Suggested operating temperature range for service at rated pressures with compatible fluids is 0°F (-18°C) to +200°F (+93°C)

Colors

- White
- Black

For detailed ordering information, please consult price list or contact Parflex® Division.

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B-27

Polyurethane Tubing

Series U: Polyether Base



Features

- 90 to 95 Shore A durometer
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools
- General industrial pneumatics

- Vacuum equipment
- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications

Also available in coils

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Weight | |
|-------------|-----------|------|-----------|------|------------------------|------|---------------------------------|-----|------------------------------|------|------------------------|----------|----------|
| # | | | | | | | | | | | | | |
| Natural | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | lbs./ft. | kg./mtr. |
| U-21-XXXX | 1/8 | 3.2 | .063 | 1.6 | .031 | 0.79 | 125 | 8.6 | 375 | 25.9 | 0050, 0250, 0500, 1000 | .005 | .007 |
| U-32-XXXX | 3/16 | 4.8 | .125 | 3.2 | .031 | 0.79 | 125 | 8.6 | 375 | 25.9 | 0050, 0250, 0500 | .008 | .012 |
| U-42-XXXX | 1/4 | 6.4 | .125 | 3.2 | .063 | 1.6 | 125 | 8.6 | 375 | 25.9 | 0050, 0250, 0500, 1000 | .018 | .027 |
| U-64-XXXX | 3/8 | 9.5 | .250 | 6.4 | .063 | 1.6 | 125 | 8.6 | 375 | 25.9 | 0050, 0250, 0500, 1000 | .030 | .045 |
| U-85-XXXX | 1/2 | 12.7 | .328 | 8.3 | .086 | 2.2 | 125 | 8.6 | 375 | 25.9 | 0050, 0250, 0500 | .044 | .065 |
| U-86-XXXX | 1/2 | 12.7 | .375 | 9.5 | .063 | 1.6 | 85 | 5.9 | 255 | 17.6 | 0050, 0250, 0500 | .042 | .062 |
| U-96-XXXX | 9/16 | 14.3 | .375 | 9.5 | .094 | 2.4 | 125 | 8.6 | 375 | 25.9 | 0050, 0100 | .068 | .101 |
| U-128-XXXX | 3/4 | 19.1 | .500 | 12.7 | .125 | 3.2 | 125 | 8.6 | 375 | 25.9 | 0050, 0100 | .120 | .179 |

Order Information

Example: U-21-BLK-0500

U-21-BLK-0500 – Polyurethane

U-**21**-BLK-0500 – **Tube O.D.** in sixteenths of an inch (**1/8"**)

U-**21**-BLK-0500 – **Tube I.D.** in sixteenths of an inch (**.063"**)

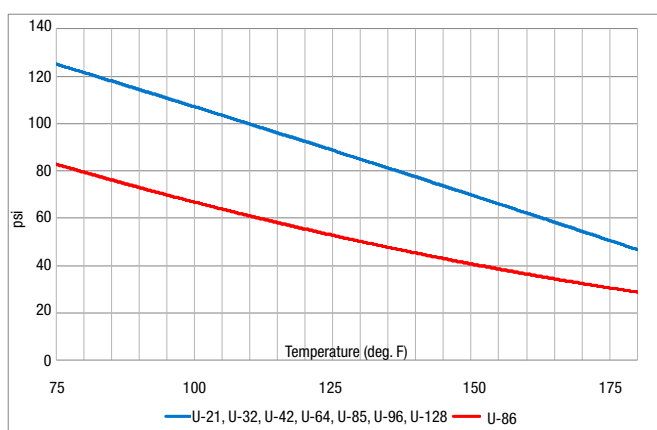
U-21-**BLK**-0500 – **Color (Black)** (Omit for Natural)

U-21-BLK-**0500** – **Package Quantity** in feet (**500'**)

| Opaque Color Code | | | Transparent Color Code | | |
|-------------------|-----|---------|------------------------|------|--------------------|
| ○ | - | Natural | ● | TBLU | Transparent Blue |
| ● | BLK | Black | ● | TGRN | Transparent Green |
| ● | BLU | Blue | ● | TORG | Transparent Orange |
| ● | GRA | Gray | ● | TRED | Transparent Red |
| ● | GRN | Green | ● | TYEL | Transparent Yellow |
| ● | ORG | Orange | | | |
| ● | RED | Red | | | |
| ● | WHT | White | | | |
| ● | YEL | Yellow | | | |

Polyurethane Tubing (Series U)

Maximum Working Pressure (psig)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- TrueSeal™
- Par-Barb®

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F (-40°C) to +180°F (+82°C)

Colors

- See Color Code Table

Metric Polyurethane Tubing

Series UM: Polyether Base



Features

- 90 to 95 Shore A durometer
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools
- General industrial pneumatics
- Vacuum equipment
- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Weight | |
|---------------|-----------|------|-----------|------|------------------------|------|---------------------------------|-----|------------------------------|-----|------------------|----------|----------|
| # | | | | | | | | | | | | | |
| Natural | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | feet | kg./mtr. | lbs./ft. |
| UM4x2.5-XXXX | 4 | .157 | 2.5 | .098 | 0.75 | .030 | 9.0 | 131 | 26.0 | 377 | 0100, 0250, 0500 | .009 | .006 |
| UM6x4-XXXX | 6 | .236 | 4.0 | .157 | 1.00 | .039 | 9.0 | 131 | 26.0 | 377 | 0100, 0250, 0500 | .018 | .012 |
| UM8x5-XXXX | 8 | .315 | 5.0 | .196 | 1.50 | .059 | 9.0 | 131 | 26.0 | 377 | 0100, 0250, 0500 | .036 | .024 |
| UM10x6.5-XXXX | 10 | .393 | 6.4 | .236 | 1.75 | .069 | 9.0 | 131 | 26.0 | 377 | 0100, 0250 | .053 | .036 |
| UM12x8-XXXX | 12 | .472 | 8.0 | .315 | 2.00 | .079 | 9.0 | 131 | 26.0 | 377 | 0100, 0250 | .073 | .049 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: UM6x4-BLK-0100

UM6X4-BLK-0100 – Polyurethane Metric

UM**6**X4-BLK-0100 – **Tube O.D.** in millimeters (**6 mm**)

UM6X**4**-BLK-0100 – **Tube I.D.** in millimeters (**4 mm**)

UM6X4-**BLK**-0100 – **Color (Black)** (Omit for Natural)

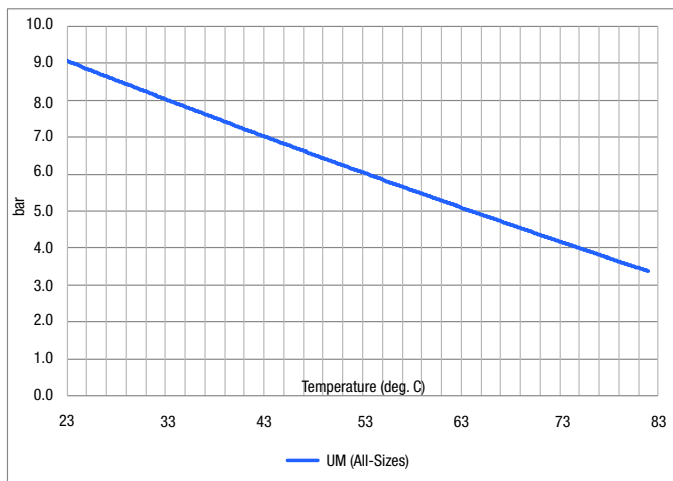
UM6X4-BLK-**0100** – **Package Quantity** in feet (**100'**)

| Opaque Color Code | | |
|-------------------|-----|---------|
| ○ | - | Natural |
| ● | BLK | Black |
| ● | BLU | Blue |
| ● | GRA | Gray |
| ● | GRN | Green |
| ● | ORG | Orange |
| ● | RED | Red |
| ● | YEL | Yellow |

| Transparent Color Code | | |
|------------------------|------|--------------------|
| ● | TBLU | Transparent Blue |
| ● | TGRN | Transparent Green |
| ● | TORG | Transparent Orange |
| ● | TRED | Transparent Red |
| ● | TYEL | Transparent Yellow |

Metric Polyurethane Tubing (Series UM)

Maximum Working Pressure (bar)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Flow Control
- Prestolok Brass
- Prestolok Composite

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- The recommended operating temperature range for service at rated pressures with compatible fluids is -40°C (-40°F) to +82°C (+180°F)

Colors

- See Color Code Table

HUFR MicroWeld™ Tubing



Features

- Mono-wall construction eliminates the need for skiving tools or knives, reducing installation time
- Excellent abrasion resistance
- Silicone and halogen free
- Weighs 36% less than equivalent jacketed tubing

Certifications

- UL 94 V2 compliant

Applications/Markets



- Robotics
- Welding
- General automation

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Minimum Bend Radius | | Weight | |
|--------------------|-----------|------|-----------|-----|------------------------|-----|---------------------------------|------|------------------------------|------|-------------|---------------------|------|----------|----------|
| # | | | | | | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | inch | mm | lbs./ft. | kg./mtr. |
| HUFR-4-045-XX-0500 | 1/4 | 6.4 | .160 | 4.1 | .045 | 1.1 | 175 | 12.1 | 525 | 36.2 | 0500 | .50 | 12.7 | .016 | .024 |
| HUFR-6-062-XX-0500 | 3/8 | 9.5 | .251 | 6.4 | .062 | 1.6 | 150 | 10.3 | 450 | 31.0 | 0500 | .75 | 19.1 | .033 | .049 |
| HUFR-8-090-XX-0250 | 1/2 | 12.7 | .320 | 8.1 | .090 | 2.3 | 160 | 11.0 | 475 | 32.7 | 0250 | 1.00 | 25.4 | .063 | .094 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: HUFR-4-045-BL-0500

HUFR-4-045-BL-0500 – MicroWeld™ Polyurethane

HUFR-**4**-045-BL-0500 – **Tube O.D.** in sixteenths of an inch (**1/4"**)

HUFR-4-**045**-BL-0500 – **Wall Thickness** in inches (**.045"**)

HUFR-4-045-**BL**-0500 – **Color (Blue)**

HUFR-4-045-BL-**0500** – **Package Quantity** in feet (**500'**)

| Color Code | | |
|------------|----|-------|
| ● | BK | Black |
| ● | BL | Blue |
| ● | GN | Green |
| ● | RD | Red |
| ○ | WH | White |

Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- PrestoWeld

Notes

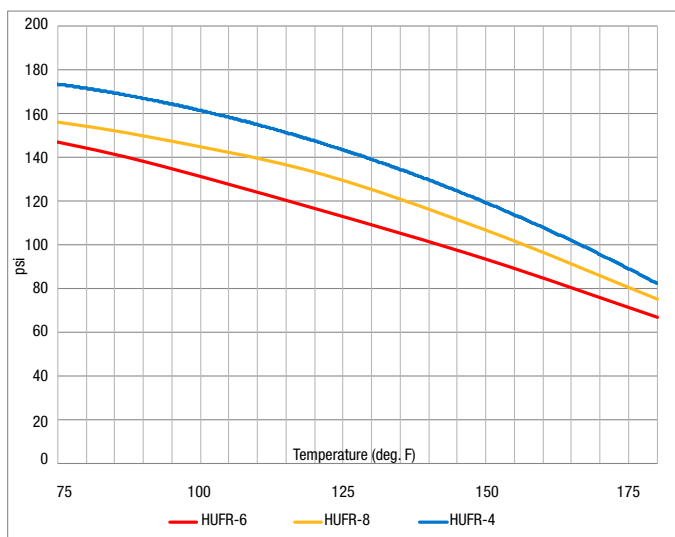
- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F (-40°C) to +180°F (+82°C)

Colors

- See Color Code Table

MicroWeld™ Tubing (Series HUFR)

Maximum Working Pressure (psig)



For detailed ordering information, please consult price list or contact Parflex® Division.

Polyurethane Tubing

Series HU: High Durometer Polyether Base



Features

- 95 Shore A durometer or greater
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools
- General industrial pneumatics
- Vacuum equipment
- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Weight | |
|-------------|-----------|------|-----------|------|------------------------|------|---------------------------------|------|------------------------------|------|------------------|----------|----------|
| # | | | | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | feet | lbs./ft. | kg./mtr. |
| HU-2-XXXX | 1/8 | 3.2 | .063 | 1.6 | .031 | 0.79 | 300 | 20.7 | 900 | 62.1 | 0100, 0250, 0500 | .005 | .007 |
| HU-2.5-XXXX | 5/32 | 4.0 | .094 | 2.4 | .031 | 0.79 | 210 | 14.5 | 630 | 43.4 | 0100, 0500 | .006 | .009 |
| HU-4-XXXX | 1/4 | 6.4 | .160 | 4.1 | .045 | 1.1 | 180 | 12.4 | 540 | 37.2 | 0100, 0500 | .014 | .021 |
| HU-6-XXXX | 3/8 | 9.5 | .250 | 6.4 | .062 | 1.6 | 180 | 12.4 | 540 | 37.2 | 0100, 0500 | .030 | .045 |
| HU-8-XXXX | 1/2 | 12.7 | .320 | 8.1 | .090 | 2.3 | 180 | 12.4 | 540 | 37.2 | 0100, 0250 | .057 | .085 |
| HU-12-XXXX | 3/4 | 19.1 | .467 | 11.9 | .142 | 3.6 | 180 | 12.4 | 540 | 37.2 | 0100, 0250 | .133 | .198 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Order Information

Example: HU-2-BLK-0500

HU-2-BLK-0500 – High Durometer Polyurethane

HU-**2**-BLK-0500 – **Tube O.D.** in sixteenths of an inch (**1/8"**)

HU-2-**BLK**-0500 – **Color (Black)**

HU-2-BLK-**0500** – **Package Quantity** in feet (**500'**)

| Color Code | | |
|------------|-----|-----------|
| ● | BLK | Black |
| ● | BLU | Blue |
| ● | DBL | Dark Blue |
| ● | RED | Red |
| ● | YEL | Yellow |

Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- TrueSeal™

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

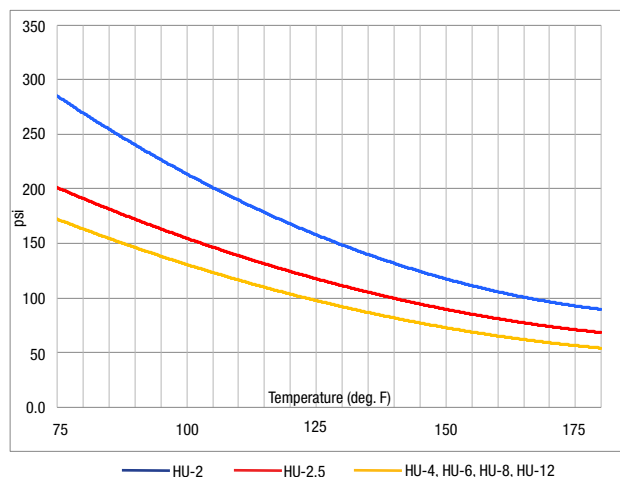
- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F (-40°C) to +180°F (+82°C)

Colors

- See Color Code Table

Polyurethane Tubing (Series HU)

Maximum Working Pressure (psig)



For detailed ordering information, please consult price list or contact Parflex® Division.

Metric Polyurethane Tubing

Series HUM: High Durometer (Metric) Polyether Base



Features

- 95 Shore A durometer or greater
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools
- General industrial pneumatics

- Vacuum equipment
- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Minimum Burst at 73°F / 23°C | | Reel Length | Weight | |
|-------------|-----------|------|-----------|------|------------------------|------|---------------------------------|-----|------------------------------|-----|-------------|----------|----------|
| # | | | | | | | | | | | | | |
| | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | feet | kg./mtr. | lbs./ft. |
| HUM-4-XXXX | 4 | .157 | 2.4 | .094 | 0.80 | .031 | 12.4 | 180 | 37.2 | 540 | 0100, 0500 | .009 | .006 |
| HUM-6-XXXX | 6 | .236 | 4.0 | .157 | 1.00 | .039 | 12.4 | 180 | 37.2 | 540 | 0100, 0500 | .018 | .012 |
| HUM-8-XXXX | 8 | .315 | 5.0 | .196 | 1.50 | .059 | 12.4 | 180 | 37.2 | 540 | 0100, 0500 | .036 | .024 |
| HUM-10-XXXX | 10 | .393 | 6.4 | .236 | 1.75 | .069 | 12.4 | 180 | 37.2 | 540 | 0100, 0250 | .053 | .036 |
| HUM-12-XXXX | 12 | .472 | 8.0 | .315 | 2.00 | .079 | 12.4 | 180 | 37.2 | 540 | 0100, 0250 | .073 | .049 |

Order Information

Example: HUM-6-BLK-0100

HUM-6-BLK-0100 – High Durometer Metric Polyurethane

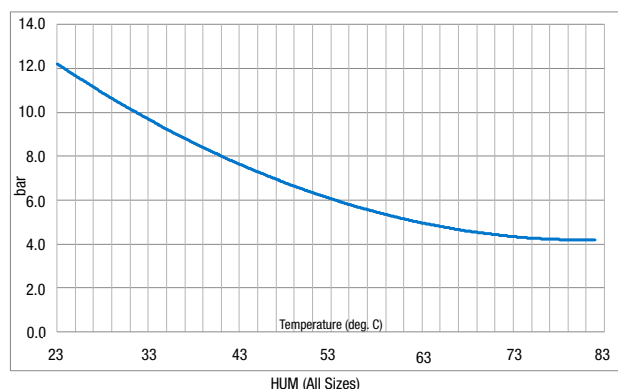
HUM-**6**-BLK-0100 – **Tube O.D.** in millimeters (**6mm**)

HUM-6-**BLK**-0100 – **Color (Black)**

HUM-6-BLK-**0100** – **Package Quantity** in feet (**100'**)

Metric Polyurethane Tubing (Series HUM)

Maximum Working Pressure (bar)



Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Flow Control
- Prestolok Brass
- Prestolok Composite

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°C (-40°F) to +82°C (+180°F)

Colors

- Natural
- Black

Notes

[illegible]

Vinyl Tubing

Series PV: Clear Vinyl Tubing



Features

- Made from a virgin clear PVC (polyvinyl chloride) resin; specifically formulated for exceptional purity, clarity and flexibility
- 70 durometer for soft, easy handling and bending without tubing collapse

Certifications

- FDA compliant

Applications/Markets



- Low-pressure chemicals
- Pneumatics
- Low-pressure sight flow indicator

Order Information

Example: PV108-1

PV108-1 – Poly-Vinyl Tubing

PV108-1 – **Tube O.D.** in sixteenths of an inch **(5/8")**

PV108-1 – **Tube I.D.** in sixteenths of an inch **(1/2")**

PV108-1 – **Formula V-1 FDA Approved Formulation**

Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Poly-Tite
- Fast & Tite
- TrueSeal™
- Par-Barb®
- Hose Barb
- Garden Fitting

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-5)

Notes

- Formula V-1 tubing fully meets all specifications called out by the United States Food and Drug Administration (FDA) for materials in contact with food and drugs for human consumption
- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F (-40°C) to +150°F (+65°C)

For detailed ordering information, please consult price list or contact Parflex® Division.

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B-39

A
Hose

B
Tubing
Thermoplastic

C
Coiled Air Hose
& Fittings

D
Transportation







E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Vinyl Tubing (cont.)











Series PV: Clear Vinyl Tubing

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Std. Coil | Weight | |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|-----|---------------------------------|-----|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| # |  |  |  |  | | | | | |  |  |
| | inch | mm | inch | mm | inch | mm | psi | bar | feet | lbs./ft. | kg./mtr. |
| PV21-1 | 1/8 | 3.2 | .063 | 1.6 | .031 | .79 | 35 | 2.4 | 100 | .005 | .007 |
| PV32-1 | .170 | 4.3 | .125 | 3.2 | .025 | .64 | 35 | 2.4 | 100 | .006 | .009 |
| PV42-1 | 1/4 | 6.4 | .125 | 3.2 | .063 | 1.6 | 65 | 4.5 | 100 | .025 | .037 |
| PV43-1 | 1/4 | 6.4 | .170 | 4.3 | .040 | 1.2 | 55 | 3.8 | 100 | .014 | .021 |
| PV403-1 | 1/4 | 6.4 | .188 | 4.8 | .031 | .79 | 22 | 1.5 | 100 | .011 | .016 |
| PV53-1 | 5/16 | 7.9 | .188 | 4.8 | .063 | 1.6 | 55 | 3.8 | 100 | .025 | .037 |
| PV63-1 | 3/8 | 9.5 | .188 | 4.8 | .094 | 2.4 | 65 | 4.5 | 100 | .043 | .064 |
| PV73-1 | 7/16 | 11.1 | .188 | 4.8 | .125 | 3.2 | 75 | 5.2 | 100 | .063 | .094 |
| PV54-1 | 5/16 | 7.9 | .250 | 6.4 | .031 | .79 | 20 | 1.4 | 100 | .014 | .021 |
| PV64-1 | 3/8 | 9.5 | .250 | 6.4 | .064 | 1.6 | 55 | 3.8 | 100 | .032 | .048 |
| PV74-1 | 7/16 | 11.1 | .250 | 6.4 | .094 | 2.4 | 60 | 4.1 | 100 | .052 | .077 |
| PV84-1 | 1/2 | 12.7 | .250 | 6.4 | .125 | 3.2 | 70 | 4.8 | 100 | .076 | .113 |
| PV75-1 | 7/16 | 11.1 | .313 | 7.9 | .063 | 1.6 | 50 | 3.4 | 100 | .038 | .057 |
| PV85-1 | 1/2 | 12.7 | .313 | 7.9 | .094 | 2.4 | 60 | 4.1 | 100 | .062 | .092 |
| PV95-1 | 9/16 | 14.3 | .313 | 7.9 | .125 | 3.2 | 70 | 4.8 | 100 | .088 | .131 |
| PV86-1 | 1/2 | 12.7 | .375 | 9.5 | .063 | 1.6 | 45 | 3.1 | 100 | .044 | .065 |
| PV96-1 | 9/16 | 14.3 | .375 | 9.5 | .094 | 2.4 | 50 | 3.4 | 100 | .071 | .106 |
| PV106-1 | 5/8 | 15.9 | .375 | 9.5 | .125 | 3.2 | 60 | 4.1 | 100 | .101 | .150 |
| PV97-1 | 9/16 | 14.3 | .438 | 11.1 | .063 | 1.6 | 40 | 2.8 | 100 | .050 | .074 |
| PV107-1 | 5/8 | 15.9 | .438 | 11.1 | .094 | 2.4 | 45 | 3.1 | 100 | .080 | .119 |
| PV117-1 | 11/16 | 17.5 | .438 | 11.1 | .125 | 3.2 | 50 | 3.4 | 100 | .115 | .171 |
| PV108-1 | 5/8 | 15.9 | .500 | 12.7 | .063 | 1.6 | 30 | 2.1 | 100 | .057 | .085 |
| PV118-1 | 11/16 | 17.5 | .500 | 12.7 | .094 | 2.4 | 40 | 2.8 | 100 | .089 | .132 |
| PV128-1 | 3/4 | 19.1 | .500 | 12.7 | .125 | 3.2 | 45 | 3.1 | 100 | .126 | .187 |
| PV138-1 | 13/16 | 20.7 | .500 | 12.7 | .156 | 4.0 | 60 | 4.1 | 100 | .167 | .248 |
| PV129-1 | 3/4 | 19.1 | .563 | 14.3 | .094 | 2.4 | 40 | 2.8 | 100 | .099 | .147 |
| PV139-1 | 13/16 | 20.7 | .563 | 14.3 | .125 | 3.2 | 45 | 3.1 | 100 | .138 | .205 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

| Part Number | Tube O.D. | | Tube I.D. | | Average Wall Thickness | | Working Pressure at 73°F / 23°C | | Std. Coil | Weight | |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| # |  |  |  |  |  |  |  |  | |  |  |
| | inch | mm | inch | mm | inch | mm | psi | bar | feet | lbs./ft. | kg./mtr. |
| PV1310-1 | 13/16 | 26.7 | .625 | 15.9 | .094 | 2.4 | 35 | 2.4 | 100 | .108 | .161 |
| PV1410-1 | 7/8 | 22.2 | .625 | 15.9 | .125 | 3.2 | 40 | 2.8 | 100 | .151 | .225 |
| PV1510-1 | 15/16 | 23.8 | .625 | 15.9 | .156 | 4.0 | 50 | 3.5 | 100 | .196 | .292 |
| PV1411-1 | 7/8 | 22.2 | .688 | 17.5 | .094 | 2.4 | 30 | 2.1 | 100 | .118 | .176 |
| PV1611-1 | 1 | 25.4 | .688 | 17.5 | .156 | 4.0 | 45 | 3.1 | 100 | .213 | .317 |
| PV1612-1 | 1 | 25.4 | .750 | 19.1 | .125 | 3.2 | 35 | 2.4 | 100 | .176 | .262 |
| PV1712-1 | 1-1/16 | 27.0 | .750 | 19.1 | .156 | 4.0 | 35 | 2.4 | 100 | .228 | .339 |
| PV1812-1 | 1-1/8 | 28.6 | .750 | 19.1 | .188 | 4.8 | 50 | 3.5 | 100 | .283 | .421 |
| PV2012-1 | 1-1/4 | 31.8 | .750 | 19.1 | .250 | 6.4 | 55 | 3.8 | 50 | .409 | .609 |
| PV1814-1 | 1-1/8 | 27.0 | .875 | 22.2 | .125 | 3.2 | 30 | 2.1 | 50 | .201 | .299 |
| PV1914-1 | 1-3/16 | 30.2 | .875 | 22.2 | .156 | 4.0 | 35 | 2.4 | 100 | .259 | .385 |
| PV2014-1 | 1-1/4 | 31.8 | .875 | 22.2 | .188 | 4.8 | 45 | 3.1 | 50 | .321 | .478 |
| PV2016-1 | 1-1/4 | 31.8 | 1.000 | 25.4 | .125 | 3.2 | 25 | 1.7 | 50 | .230 | .342 |
| PV2116-1 | 1-5/16 | 33.4 | 1.000 | 25.4 | .156 | 4.0 | 30 | 2.1 | 50 | .291 | .433 |
| PV2216-1 | 1-3/8 | 34.9 | 1.000 | 25.4 | .188 | 4.8 | 40 | 2.8 | 50 | .359 | .534 |
| PV2416-1 | 1-1/2 | 38.1 | 1.000 | 25.4 | .250 | 6.4 | 45 | 3.1 | 50 | .514 | .765 |
| PV2218-1 | 1-3/8 | 34.9 | 1.125 | 28.6 | .125 | 3.2 | 25 | 1.7 | 50 | .252 | .375 |
| PV2420-1 | 1-1/2 | 38.1 | 1.250 | 31.8 | .125 | 3.2 | 20 | 1.4 | 50 | .277 | .412 |
| PV2620-1 | 1-5/8 | 41.3 | 1.250 | 31.8 | .188 | 4.8 | 35 | 2.4 | 50 | .434 | .646 |
| PV2820-1 | 1-3/4 | 44.4 | 1.250 | 31.8 | .250 | 6.4 | 45 | 3.1 | 50 | .604 | .899 |
| PV3024-1 | 1-7/8 | 47.6 | 1.500 | 38.1 | .188 | 4.8 | 30 | 2.1 | 50 | .510 | .759 |
| PV3224-1 | 2 | 50.8 | 1.500 | 38.1 | .250 | 6.4 | 40 | 2.8 | 50 | .705 | 1.05 |
| PV3628-1 | 2-1/4 | 57.2 | 1.750 | 44.4 | .250 | 6.4 | 30 | 2.1 | 50 | .806 | 1.20 |
| PV4032-1 | 2-1/2 | 63.5 | 2.000 | 50.8 | .250 | 6.4 | 35 | 2.4 | 50 | .906 | 1.35 |

For detailed ordering information, please consult price list or contact Parflex® Division.



Fluoropolymer Tubing

Fluoropolymer Tubing

Parflex Fluoropolymer tubing is available from Parker TexLoc™ in Fort Worth, Texas. Tubing can be ordered directly from TexLoc or through the Parflex Division.

Fluoropolymer tubing features a low coefficient of friction and anti-stick properties, high temperature capabilities and the most corrosion and chemical resistance of all polymers. Within normal use temperatures, fluoropolymers are attacked by so few chemicals that it is easier to describe the exceptions rather than list the chemicals they are compatible with (see Chemical Resistance Summary, pg. B-44). These chemically inert tubes are non-wetting and non-leaching, making them ideal for a wide range of fluid and material handling applications.

Parker TexLoc fluoropolymer tubing is available in PTFE, FEP, PFA and PVDF with some materials operating at temperatures up to 500°F/260°C. Each material has specific dominant characteristics, but all operate in high-temperature, corrosive environments.

- Parflex PTFE, FEP, PFA and PVDF tubing complies with European Standard RoHs and are also FDA compliant to FDA regulation 21 CFR 177.1550, making these products suitable for use in food and beverage applications.
- Parflex PTFE, FEP and PFA are listed VW-1 in the burning test for Underwriters Laboratories and pass the UL-83 vertical flame test. In a flame situation, PTFE, FEP and PFA tubing resist combustion and do not promote flame spread.

All fluoropolymer tubing dimensions are continuously monitored to ensure an overall quality product. Most tubing sizes are packaged in convenient 25-ft., 50-ft., 100-ft. and 1,000-ft. lengths.

PTFE

- PTFE (Polytetrafluorethylene) is offered in beading, smoothbore tubing and heat shrinkable tubing.
- PTFE tubing features unmatched chemical resistance and a non-stick surface that facilitates flow and eliminates media buildup.

FEP

- FEP (Fluorinated Ethylene Propylene) is available in smoothbore tubing and heat shrinkable tubing.
- FEP tubing offers the highest clarity in the fluoropolymer market and is a close second to PTFE in chemical resistance.
- FEP is available in long, continuous lengths (1,000 feet and longer) whereas the longest lengths for PTFE range from 200 to 1,000 feet depending on size and wall thickness.



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Fluoropolymer Tubing

| Product Family | Type | Series | | Suggested Applications | | Suggested Markets |
|----------------|-------------|-----------------|------------|-----------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| PTFE | Beading | TFB | | Pull Cord O-Ring Seals | Spacers Woven Filter | Chemical High-Temp |
| | Smoothbore | TFH TFS | TFT TFL | Electrical Insulation Protective Cover | Circuit Board Wire Insulation | Food Instrumentation Laboratory |
| | Smoothbore | 101 | 201 | Electrical Insulation Fluid Transfer | Gas Sampling Laboratory | Gas Sampling Electrical Insulation |
| | Heat Shrink | HS2T | HS4T | Electrical Insulation Laboratory | | Fluid Handling Industrial Equipment |
| FEP | Smoothbore | 103 | 203 | Nitrogen Filling Downhole Pump Ozone Sampling | Hearing Aid Optical Sensors | UV Applications Chemical Instrumentation Laboratory Gas Sampling Robotics |
| | Heat Shrink | HS1.3 HS1.25 | HS1.6 | Protective Covering UV Light Covering Product Testing | Paper Rollers Ink Rollers | Fluid Handling Food & Beverage Pharmaceutical |
| PFA | Smoothbore | 104 | 204 | Air Sampling Gas Purge Wetbench Flow Monitoring Steam Plant | | Chemical Laboratory Semiconductor Instrumentation Food Environmental Fluid Handling Gas Service Pharmaceutical |
| PVDF | Smoothbore | 110 | 111 | Thermal Cycling Outdoor/Extreme Conditions Water Systems Applications with long cycle life | | Chemical Food Gas Environmental |

PFA

- PFA (Perfluoroalkoxy) is available in smoothbore tubing.
- When temperature and clarity are both factors, PFA is the resin of choice because it offers the high-temperature attributes of PTFE, long continuous lengths, and almost as much clarity as FEP.
- High purity resins available.
- Low permeability.

PVDF

- PVDF (Polyvinylidene Fluoride) is available in flexible and super flexible smoothbore tubing.
- PVDF offers a combination of properties beneficial for use in many critical applications requiring chemical resistance with low permeability.

For detailed ordering information, please consult price list or contact Parflex® Division.

Fluoropolymer Tubing

Tubing
Fluoropolymer
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

Fluoropolymer - Quick Reference

PTFE (Polytetrafluoroethylene)

Working Temperature: 500°F (260°C)

Color: Opaque to translucent

- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

PFA (Perfluoroalkoxy)

Working Temperature: 500°F (260°C)

Color: Clear with light blue or tint

- High purity resins available
- Low permeation resins available
- Use when you need the temperature range of PTFE and the clarity of FEP
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Good flexlife

FEP (Fluorinated Ethylene Propylene)

Working Temperature: 400°F (204°C)

Color: Clear

- Excellent chemical resistance
- Nonwetting
- Weldable
- Tubes can be sealed by melting
- Long continuous lengths
- Low refractive index
- Improved clarity over PFA
- Lower cost alternative to PFA

PVDF (Polyvinylidene Fluoride)

Working Temperature: 265°F (130°C)

Color: Varies

- Very good chemical resistance
- Excellent resistance to creep and fatigue
- UV Resistant
- Weldable
- Exceptional corrosion resistance for chlorine, fluorine, or bromine environments

Chemical Resistance Summary



Within normal use temperatures, fluoroplastics are attacked by so few chemicals that it is easier to describe the exceptions rather than list the chemicals with which TexFluor™ is compatible.

DO NOT USE FLUOROPLASTICS WITH THE FOLLOWING:

- Alkali metals such as elemental sodium, potassium, lithium, etc. The alkali metals remove fluorine from the polymer molecule.
- Extremely potent oxidizers, fluorine (F₂) and related compounds (e.g., chlorine trifluoride, ClF₃). These can be handled by TexFluor™, but only with great care, as fluorine is absorbed into the resins, and the mixture becomes sensitive to a source of ignition such as impact.
- 80% NaOH (Sodium Hydroxide) or KOH (Potassium Hydroxide), metal hydrides such as Boranes (e.g., B₂H₆), Aluminum Chloride, Ammonia (NH₃), certain Amines (R-NH₂) and imines (R=NH) and 70% Nitric Acid at temperatures near the suggested service limit.



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Fluoropolymer Tubing

Property Comparison - Fluoropolymer Resin*

| Properties | ASTM or Unit | PTFE | FEP | PFA | PVDF |
|---------------------------------------------------|------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------|
| MECHANICAL PROPERTIES | | | | | |
| Specific Gravity | D792 | 2.13-2.20 | 2.12-2.17 | 2.12-2.17 | 1.76-1.78 |
| Elongation % | D638 | 200-450 | 250-330 | 280-400 | 300-450 |
| Tensile Strength (psi) | D638 | 2000-7000 | 2800-5000 | 4000-4500 | 4500-6200 |
| Tensile Elastic Modulus (Young's Modulus) (psi) | D638 | 57,000 | 50,000 | 72,500-87,000 | 160,000 |
| Flexural Modulus | D790(psi) D790 103MPa (103kgf/cm2) | 71,000-85,000 0.5-0.6 (5.0-6.0) | 78,000-92,000 0.5-0.6 (5.5-6.4) | 94,000-99,000 0.6-0.7 (6.6-7.0) | 90,000-168,000 na |
| Flex Life (MIT cycles) | D2176 | >1,000,000 | 5,000-80,000 | 10,000-500,000 | na |
| Hardness Durometer Shore D | D636 | D50-65 | D55 | D55-60 | D75-D85 |
| Coefficient of Friction | (on steel) | 0.02 | 0.05 | 0.2 | 0.4 |
| Abrasion Resistance 1000 revs. | Taber | 12 | 14-20 | 9-17 | 5-15 |
| Impact Strength IZOD. 73°F/23°C notched ft/lbs/in | D256 | 3 | no break | no break | 4 |
| THERMAL PROPERTIES | | | | | |
| Melting Point | °C | 327 | 260 | 305 | 171 |
| | °F | 621 | 500 | 582 | 340 |
| Upper Service Temperature(20000h) | °C | 260 | 204 | 260 | 130 |
| | °F | 500 | 400 | 500 | 260 |
| Low Temperature Embrittlement | °C | -268 | -268 | -268 | -62 |
| | °F | -450 | -450 | -450 | -80 |
| ELECTRICAL PROPERTIES | | | | | |
| Dielectric Constant | D150/103Hz | 2.1 | 2.1 | 2.1 | 7.72 |
| | D150/106Hz | 2.1 | 2.1 | 2.1 | 6.43 |
| Dielectric Strength | D149/125 MIL | 500 | 500 | 500 | na |
| | D149/10 MIL | ≥1400 | >1400 | ≥1400 | >1080 |
| GENERAL PROPERTIES | | | | | |
| Chemical/Solvent Resistance | D543 | Excellent | Excellent | Excellent | Very Good |
| Water Absorption 24h,% | D570 | <0.01 | <0.01 | <0.03 | <0.04 |
| Refractive Index | | 1.35 | 1.338 | 1.34 | 1.42 |

*General resin properties; Tubing properties may vary.

Tubing Pressure Ranges

Tubing pressures vary by material, tubing size and wall thickness. Please contact Customer Service for specific pressures.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



B-45

Tubing
Fluoropolymer
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

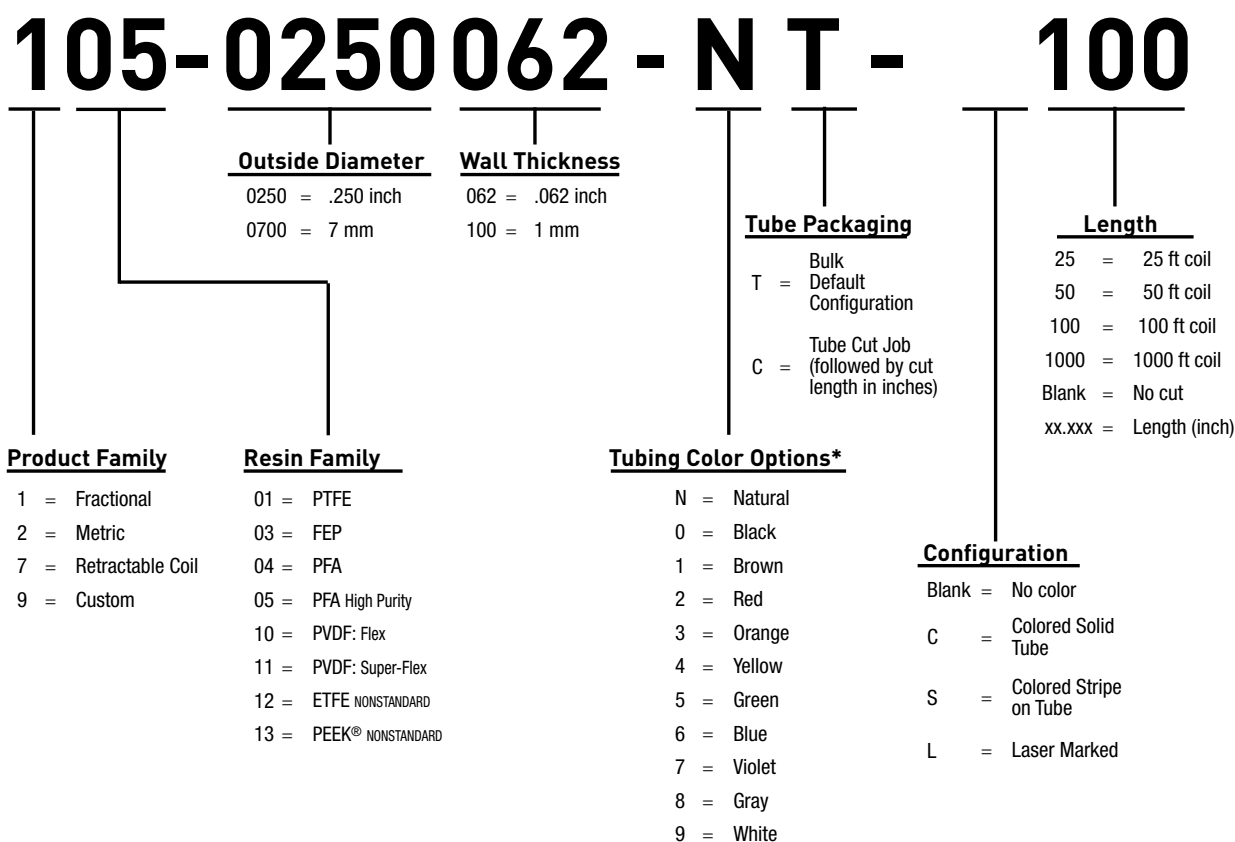
Tooling, Equipment
& Accessories
F

General Technical
G

Fluoropolymer Tubing

Fluoropolymer Tubing Nomenclature

Smoothbore Fractional and Metric Tubing



PEEK® is a registered trademark of Victrex.



For detailed ordering information, please consult price list or contact Parflex® Division.

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Fluoropolymer Tubing

Fluoropolymer Tubing Nomenclature

Heat Shrink, Electrical Insulation Tubing and Beading

HS2** T F T 1/8 - N T***

Resin Family

TF = PTFE
FP = FEP
PF = PFA
ET = ETFE

Tubing Sizes**

XX for AWG size 0-30
X/X for Fractional sizes 1/8 to 1.00 inch

Tube Packaging

T = Bulk Default Configuration
C = Tube Cut Job (followed by cut length in inches -if cut, go to Other Options)

Other Options

Blank = Not required
xx.xxx = add cut length in inches.

Special Configurations

Blank if Smooth Bore
HS2 = 2:1 Ratio PTFE
HS4 = 4:1 Ratio PTFE
HS1.3 = 1.3/1:1 Ratio FEP
HS1.6 = 1.67:1 Ratio FEP
HS1.25 = 1.25:1 Ratio FEP

Tubing Configurations

H = Heavy Wall
S = Standard Wall
T = Thin Wall
L = Light Wall
I = Industrial Wall
B = Beading

Tubing Color Options*

N = Natural
0 = Black
1 = Brown
2 = Red
3 = Orange
4 = Yellow
5 = Green
6 = Blue
7 = Violet
8 = Gray
9 = White

Configuration

Blank = No color
C = Colored Solid Tube
S = Colored Stripe on Tube

*When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

**This first configuration is only used for heat shrinkable tubing or spiral wrap. For example, electrical insulation tubing part number would read TFT-1/8-NT.

***When changing to cut length, replace the T with C and specify the length in inches. If this part was cut to 4 feet, part number would read TFT-1/8-NC48.000.

****Sizes for heat shrink designate the size of the heat shrink tube as stated by the applicable specification. The actual O.D. of the tubing does not always match the size. Review actual tables to see the true expanded dimension of the tube.

For detailed ordering information, please consult price list or contact Parflex® Division.

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B-47

Tubing
Fluoropolymer
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

PTFE Tubing

Series Fractional: TFL, TFS, TFT



Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

Applications/Markets







- Electrical Insulation
- Protective Cover

Certifications

- Light Wall (TFL) – ASTM D 3295, Class 1, AMS 3654C
- Thin Wall (TFT) – ASTM D 3295, Class 2, AMS 3655B
- Standard Wall (TFS) – ASTM D 3295, Class 3, AMS 3653E
- FDA Compliant
- USP Class VI Compliant

TFS, TFT & TFL PTFE Fractional Tubing

| Size | Nominal I.D. | | Standard Wall | | | Thin Wall | | | Light Wall | | | Standard Packaging |
|------|-------------------------------------------------------------------------------------|-------|---------------|-------------------------------------------------------------------------------------|------|-------------|-------------------------------------------------------------------------------------|------|-------------|---------------------------------------------------------------------------------------|------|--------------------|
| | | | Part Number | Nominal Wall | | Part Number | Nominal Wall | | Part Number | Nominal Wall | | |
| |  | | # |  | | # |  | | # |  | | |
| inch | inch | mm | Natural | inch | mm | Natural | inch | mm | Natural | inch | mm | |
| 1/8 | .125 | 30.2 | TFS1/8 | .020 | 0.51 | TFT1/8 | .015 | 0.38 | TFL1/8 | .008 | 0.20 | Random Length Coil |
| 3/16 | .188 | 40.8 | TFS3/16 | .020 | 0.51 | TFT3/16 | .015 | 0.38 | TFL3/16 | .010 | 0.25 | Random Length Coil |
| 1/4 | .250 | 60.4 | TFS1/4 | .020 | 0.51 | TFT1/4 | .015 | 0.38 | TFL1/4 | .010 | 0.25 | Random Length Coil |
| 5/16 | .318 | 80.1 | TFS5/16 | .020 | 0.51 | TFT5/16 | .015 | 0.38 | TFL5/16 | .012 | 0.30 | Random Length Coil |
| 3/8 | .381 | 90.7 | TFS3/8 | .025 | 0.64 | TFT3/8 | .015 | 0.38 | TFL3/8 | .015 | 0.38 | Random Length Coil |
| 7/16 | .444 | 110.3 | TFS7/16 | .025 | 0.64 | TFT7/16 | .018 | 0.46 | TFL7/16 | .018 | 0.46 | Random Length Coil |
| 1/2 | .507 | 120.9 | TFS1/2 | .025 | 0.64 | TFT1/2 | .018 | 0.46 | TFL1/2 | .018 | 0.46 | Random Length Coil |
| 5/8 | .632 | 160.1 | TFS5/8 | .025 | 0.64 | TFT5/8 | .020 | 0.51 | - | - | - | Random Length Coil |
| 3/4 | .760 | 190.7 | TFS3/4 | .030 | 0.76 | TFT3/4 | .025 | 0.64 | - | - | - | Random Length Coil |
| 7/8 | .885 | 220.5 | TFS7/8 | .035 | 0.89 | - | - | - | - | - | - | Random Length Coil |
| 1 | 1.010 | 250.7 | TFS10.00 | .035 | 0.89 | - | - | - | - | - | - | Random Length Coil |

Fractional tubing is supplied in random length coils, with a minimum coil length of 15 feet. Custom packaging, sizes and lengths are quoted upon request.



For detailed ordering information, please consult price list or contact Parflex® Division.

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Order Information

Example: TFS1/2-NT

TFS1/2-NT – PTFE

TFS1/2-NT – Standard Wall

TFS1/2-NT – Tube O.D. in inches (1/2")

TFS1/2-NT – Natural

TFS1/2-NT – Bulk Tubing

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

Fittings

- Fittings available for sizes 3/32" up to 1.1"

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Package quantities are not continuous

Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC
..ie HS1.3FEP24-0CC48.000

PTFE Tubing

Series AWG: TFH, TFS, TFT, TFL



Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

Applications/Markets



- Electrical Insulation
- Protective Cover
- Circuit Board
- Wire Insulation

Certifications

- Light Wall (TFL) – ASTM D 3295, Class 1, AMS 3654C
- Thin Wall (TFT) – ASTM D 3295, Class 2, AMS 3655B, UL-224 300V 200°C, CSA 9032-01 300V
- Standard Wall (TFS)– ASTM D 3295, Class 3, AMS 3653E, MIL-I-22129C, UL-224 600V 200°C, CSA 9032-01 600V
- Heavy Wall (TFH) - ASTM D 3295, Class 4
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

Order Information

Example: TFH13-2TC

TFH13-2TC – PTFE

TFH13-2TC – Heavy Wall

TFH13-2TC – AWG Size

TFS13-2TC – Red

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

Fittings

- Fittings available for sizes 3/32" up to 1.1"

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Spaghetti tubing is supplied in random lengths with a minimum length of 25 feet
- Continuous lengths and colors quoted upon request
- AWG spaghetti tubing is also available in FEP and PFA
- Consult factory for pricing and minimum lengths

Colors





See Color Code Table

- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

PTFE Tubing

Series AWG: TFH, TFL, TFS, TFT (cont.)

TFH PTFE AWG Heavy Wall

| Part Number | Size | Nominal I.D. | | Minimum I.D. | | Maximum I.D. | | Nominal Wall | | Standard Packaging |
|-------------|------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|-------------|--------------------|
| # | |  | |  | |  | |  | | |
| | AWG | inch | mm | inch | mm | inch | mm | inch | mm | |
| TFH24 | 24 | .022 | 0.56 | .020 | 0.51 | .026 | 0.66 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFH23 | 23 | .026 | 0.66 | .023 | 0.58 | .029 | 0.74 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFH22 | 22 | .028 | 0.71 | .025 | 0.64 | .032 | 0.81 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFH21 | 21 | .032 | 0.81 | .029 | 0.74 | .035 | 0.89 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFH20 | 20 | .034 | 0.86 | .032 | 0.81 | .040 | 1.02 | .018 ± .003 | 0.46 ± 0.08 | 1,000 ft. Spool |
| TFH19 | 19 | .038 | 0.97 | .036 | 0.91 | .044 | 1.12 | .020 ± .004 | 0.51 ± 0.10 | 1,000 ft. Spool |
| TFH18 | 18 | .042 | 1.07 | .040 | 1.02 | .049 | 1.25 | .020 ± .004 | 0.51 ± 0.10 | 1,000 ft. Spool |
| TFH17 | 17 | .048 | 1.22 | .045 | 1.14 | .054 | 1.37 | .020 ± .004 | 0.51 ± 0.10 | 1,000 ft. Spool |
| TFH16 | 16 | .053 | 1.35 | .051 | 1.30 | .061 | 1.55 | .020 ± .004 | 0.51 ± 0.10 | 1,000 ft. Spool |
| TFH15 | 15 | .059 | 1.50 | .057 | 1.45 | .067 | 1.70 | .020 ± .004 | 0.51 ± 0.10 | 1,000 ft. Spool |
| TFH14 | 14 | .066 | 1.68 | .064 | 1.63 | .074 | 1.88 | .020 ± .004 | 0.51 ± 0.10 | 500 ft. Spool |
| TFH13 | 13 | .076 | 1.93 | .072 | 1.83 | .082 | 2.08 | .020 ± .004 | 0.51 ± 0.10 | 500 ft. Spool |
| TFH12 | 12 | .085 | 2.16 | .081 | 2.06 | .091 | 2.31 | .020 ± .004 | 0.51 ± 0.10 | 500 ft. Spool |
| TFH11 | 11 | .095 | 2.41 | .091 | 2.31 | .101 | 2.57 | .020 ± .004 | 0.51 ± 0.10 | 500 ft. Spool |
| TFH10 | 10 | .106 | 2.69 | .102 | 2.59 | .112 | 2.84 | .025 ± .005 | 0.64 ± 0.13 | 500 ft. Spool |
| TFH09 | 9 | .118 | 3.00 | .114 | 2.90 | .124 | 3.15 | .025 ± .005 | 0.64 ± 0.13 | 500 ft. Spool |
| TFH08 | 8 | .133 | 3.38 | .129 | 3.28 | .141 | 3.58 | .030 ± .005 | 0.76 ± 0.13 | Random Length Coil |
| TFH07 | 7 | .148 | 3.76 | .144 | 3.66 | .158 | 4.01 | .030 ± .005 | 0.76 ± 0.13 | Random Length Coil |
| TFH06 | 6 | .166 | 4.22 | .162 | 4.11 | .178 | 4.52 | .030 ± .005 | 0.76 ± 0.13 | Random Length Coil |
| TFH05 | 5 | .185 | 4.70 | .182 | 4.62 | .196 | 4.98 | .032 ± .005 | 0.81 ± 0.13 | Random Length Coil |

Certifications

- Heavy Wall (TFH) - ASTM D 3295, Class 4
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

Notes









- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

TFS PTFE AWG Standard Wall

| Part Number | Size | Nominal I.D. | | Minimum I.D. | | Maximum I.D. | | Nominal Wall | | Standard Packaging |
|-------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|
| # | |  |  |  |  |  |  |  |  | |
| | AWG | inch | mm | inch | mm | inch | mm | inch | mm | |
| TFS30 | 30 | .012 | 0.31 | .010 | 0.25 | .015 | 0.38 | .009 ± .002 | 0.23 ± 0.51 | 1,000 ft. Spool |
| TFS28 | 28 | .015 | 0.38 | .013 | 0.33 | .018 | 0.46 | .009 ± .002 | 0.23 ± 0.51 | 1,000 ft. Spool |
| TFS26 | 26 | .018 | 0.46 | .016 | 0.41 | .022 | 0.56 | .009 ± .002 | 0.23 ± 0.51 | 1,000 ft. Spool |
| TFS24 | 24 | .022 | 0.56 | .020 | 0.51 | .026 | 0.66 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFS23 | 23 | .026 | 0.66 | .023 | 0.58 | .029 | 0.74 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFS22 | 22 | .028 | 0.71 | .025 | 0.64 | .032 | 0.81 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFS21 | 21 | .032 | 0.81 | .029 | 0.74 | .035 | 0.89 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFS20 | 20 | .034 | 0.86 | .032 | 0.81 | .040 | 1.02 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFS19 | 19 | .038 | 0.97 | .036 | 0.91 | .044 | 1.12 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFS18 | 18 | .042 | 1.07 | .040 | 1.02 | .049 | 1.25 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFS17 | 17 | .048 | 1.22 | .045 | 1.14 | .054 | 1.37 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFS16 | 16 | .053 | 1.35 | .051 | 1.30 | .061 | 1.55 | .016 ± .003 | 0.41 ± 0.08 | 1,000 ft. Spool |
| TFS15 | 15 | .059 | 1.50 | .057 | 1.45 | .067 | 1.70 | .016 ± .003 | 0.41 ± 0.08 | 500 ft. Spool |
| TFS14 | 14 | .066 | 1.68 | .064 | 1.63 | .074 | 1.88 | .016 ± .003 | 0.41 ± 0.08 | 500 ft. Spool |
| TFS13 | 13 | .076 | 1.93 | .072 | 1.83 | .082 | 2.08 | .016 ± .003 | 0.41 ± 0.08 | 500 ft. Spool |
| TFS12 | 12 | .085 | 2.16 | .081 | 2.06 | .091 | 2.31 | .016 ± .003 | 0.41 ± 0.08 | 500 ft. Spool |
| TFS11 | 11 | .095 | 2.41 | .091 | 2.31 | .101 | 2.57 | .016 ± .003 | 0.41 ± 0.08 | 500 ft. Spool |
| TFS10 | 10 | .106 | 2.69 | .102 | 2.59 | .112 | 2.84 | .016 ± .003 | 0.41 ± 0.08 | 500 ft. Spool |
| TFS09 | 9 | .118 | 3.00 | .114 | 2.90 | .124 | 3.15 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS08 | 8 | .133 | 3.38 | .129 | 3.28 | .141 | 3.58 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS07 | 7 | .148 | 3.76 | .144 | 3.66 | .158 | 4.01 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS06 | 6 | .166 | 4.22 | .162 | 4.11 | .178 | 4.52 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS05 | 5 | .185 | 4.70 | .182 | 4.62 | .196 | 4.98 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS04 | 4 | .208 | 5.28 | .204 | 5.18 | .224 | 5.69 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS03 | 3 | .234 | 5.94 | .229 | 5.82 | .249 | 6.32 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS02 | 2 | .263 | 6.68 | .258 | 6.55 | .278 | 7.06 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS01 | 1 | .294 | 7.47 | .289 | 7.34 | .311 | 7.90 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |
| TFS00 | 0 | .330 | 8.38 | .325 | 8.25 | .347 | 8.81 | .020 ± .004 | 0.51 ± 0.10 | Random Length Coil |

Certifications

- Standard Wall (TFS)- ASTM D 3295, Class 3, AMS 3653E, MIL-I-22129C, UL-224 600V 200°C, CSA 9032-01 600V
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant









Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com

PTFE Tubing

Series AWG: TFH, TFL, TFS, TFT (cont.)

TFT PTFE AWG Thin Wall

| Part Number | Size | Nominal I.D. | | Minimum I.D. | | Maximum I.D. | | Nominal Wall | | Standard Packaging |
|-------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| # | |  |  |  |  |  |  |  |  | |
| | AWG | inch | mm | inch | mm | inch | mm | inch | mm | |
| TFT32 | 32 | .010 | 0.25 | .008 | 0.20 | .012 | 0.31 | .007 ± .002 | 0.18 ± 0.05 | 1,000 ft. Spool Only |
| TFT30 | 30 | .012 | 0.31 | .010 | 0.25 | .015 | 0.38 | .009 ± .002 | 0.23 ± 0.05 | 1,000 ft. Spool |
| TFT28 | 28 | .015 | 0.38 | .013 | 0.33 | .018 | 0.46 | .009 ± .002 | 0.23 ± 0.05 | 1,000 ft. Spool |
| TFT26 | 26 | .018 | 0.46 | .016 | 0.41 | .022 | 0.56 | .009 ± .002 | 0.23 ± 0.05 | 1,000 ft. Spool |
| TFT24 | 24 | .022 | 0.56 | .020 | 0.51 | .026 | 0.66 | .010 ± .003 | 0.25 ± 0.08 | 1,000 ft. Spool |
| TFT23 | 23 | .026 | 0.66 | .023 | 0.58 | .029 | 0.74 | .010 ± .003 | 0.25 ± 0.08 | 1,000 ft. Spool |
| TFT22 | 22 | .028 | 0.71 | .025 | 0.64 | .032 | 0.81 | .010 ± .003 | 0.25 ± 0.08 | 1,000 ft. Spool |
| TFT21 | 21 | .032 | 0.81 | .029 | 0.74 | .035 | 0.89 | .010 ± .003 | 0.25 ± 0.08 | 1,000 ft. Spool |
| TFT20 | 20 | .034 | 0.86 | .032 | 0.81 | .040 | 1.02 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFT19 | 19 | .038 | 0.97 | .036 | 0.91 | .044 | 1.12 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFT18 | 18 | .042 | 1.07 | .040 | 1.02 | .049 | 1.25 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFT17 | 17 | .048 | 1.22 | .045 | 1.14 | .054 | 1.37 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFT16 | 16 | .053 | 1.35 | .051 | 1.30 | .061 | 1.55 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFT15 | 15 | .059 | 1.50 | .057 | 1.45 | .067 | 1.70 | .012 ± .003 | 0.31 ± 0.08 | 1,000 ft. Spool |
| TFT14 | 14 | .066 | 1.68 | .064 | 1.63 | .074 | 1.88 | .012 ± .003 | 0.31 ± 0.08 | 500 ft. Spool |
| TFT13 | 13 | .076 | 1.93 | .072 | 1.83 | .082 | 2.08 | .012 ± .003 | 0.31 ± 0.08 | 500 ft. Spool |
| TFT12 | 12 | .085 | 2.16 | .081 | 2.06 | .091 | 2.31 | .012 ± .003 | 0.31 ± 0.08 | 500 ft. Spool |
| TFT11 | 11 | .095 | 2.41 | .091 | 2.31 | .101 | 2.57 | .012 ± .003 | 0.31 ± 0.08 | 500 ft. Spool |
| TFT10 | 10 | .106 | 2.69 | .102 | 2.59 | .112 | 2.84 | .012 ± .003 | 0.31 ± 0.08 | 500 ft. Spool |
| TFT09 | 9 | .118 | 3.00 | .114 | 2.90 | .124 | 3.15 | .015 ± .003 | 0.38 ± 0.08 | 500 ft. Spool |
| TFT08 | 8 | .133 | 3.38 | .129 | 3.28 | .141 | 3.58 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT07 | 7 | .148 | 3.76 | .144 | 3.66 | .158 | 4.01 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT06 | 6 | .166 | 4.22 | .162 | 4.11 | .178 | 4.52 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT05 | 5 | .185 | 4.70 | .182 | 4.62 | .196 | 4.98 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT04 | 4 | .208 | 5.28 | .204 | 5.18 | .224 | 5.69 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT03 | 3 | .234 | 5.94 | .229 | 5.82 | .249 | 6.32 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT02 | 2 | .263 | 6.68 | .258 | 6.55 | .278 | 7.06 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT01 | 1 | .294 | 7.47 | .289 | 7.34 | .311 | 7.90 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |
| TFT00 | 0 | .330 | 8.38 | .325 | 8.25 | .347 | 8.81 | .015 ± .003 | 0.38 ± 0.08 | Random Length Coil |

Certifications

- Thin Wall (TFT) - ASTM D 3295, Class 2, AMS 3655B, UL-224 300V 200°C, CSA 9032-01 300V
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

Notes









- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

TFL PTFE AWG Light Wall

| Part Number | Size | Nominal I.D. | | Minimum I.D. | | Maximum I.D. | | Nominal Wall | | Standard Packaging |
|-------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| # | |  |  |  |  |  |  |  |  | |
| | AWG | inch | mm | inch | mm | inch | mm | inch | mm | |
| TFL32 | 32 | .010 | 0.25 | .008 | 0.20 | .012 | 0.31 | .005 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool Only |
| TFL30 | 30 | .012 | 0.31 | .010 | 0.25 | .015 | 0.38 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL28 | 28 | .015 | 0.38 | .013 | 0.33 | .018 | 0.46 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL26 | 26 | .018 | 0.46 | .016 | 0.41 | .022 | 0.56 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL24 | 24 | .022 | 0.56 | .020 | 0.51 | .026 | 0.66 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL23 | 23 | .026 | 0.66 | .023 | 0.58 | .029 | 0.74 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL22 | 22 | .028 | 0.71 | .025 | 0.64 | .032 | 0.81 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL21 | 21 | .032 | 0.81 | .029 | 0.74 | .035 | 0.89 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL20 | 20 | .034 | 0.86 | .032 | 0.81 | .040 | 1.02 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL19 | 19 | .038 | 0.97 | .036 | 0.91 | .044 | 1.12 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL18 | 18 | .042 | 1.07 | .040 | 1.02 | .049 | 1.25 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL17 | 17 | .048 | 1.22 | .045 | 1.14 | .054 | 1.37 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL16 | 16 | .053 | 1.35 | .051 | 1.30 | .061 | 1.55 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL15 | 15 | .059 | 1.50 | .057 | 1.45 | .067 | 1.70 | .006 ± .002 | 0.13 ± 0.05 | 1,000 ft. Spool |
| TFL14 | 14 | .066 | 1.68 | .064 | 1.63 | .074 | 1.88 | .008 ± .002 | 0.20 ± 0.05 | 500 ft. Spool |
| TFL13 | 13 | .076 | 1.93 | .072 | 1.83 | .082 | 2.08 | .008 ± .002 | 0.20 ± 0.05 | 500 ft. Spool |
| TFL12 | 12 | .085 | 2.16 | .081 | 2.06 | .091 | 2.31 | .008 ± .002 | 0.20 ± 0.05 | 500 ft. Spool |
| TFL11 | 11 | .095 | 2.41 | .091 | 2.31 | .101 | 2.57 | .008 ± .002 | 0.20 ± 0.05 | 500 ft. Spool |
| TFL10 | 10 | .106 | 2.69 | .102 | 2.59 | .112 | 2.84 | .008 ± .002 | 0.20 ± 0.05 | 500 ft. Spool |
| TFL09 | 9 | .118 | 3.00 | .114 | 2.90 | .124 | 3.15 | .008 ± .002 | 0.20 ± 0.05 | 500 ft. Spool |
| TFL08 | 8 | .133 | 3.38 | .129 | 3.28 | .141 | 3.58 | .008 ± .002 | 0.20 ± 0.05 | Random Length Coil |
| TFL07 | 7 | .148 | 3.76 | .144 | 3.66 | .158 | 4.01 | .008 ± .002 | 0.20 ± 0.05 | Random Length Coil |
| TFL06 | 6 | .166 | 4.22 | .162 | 4.11 | .178 | 4.52 | .010 ± .003 | 0.25 ± 0.08 | Random Length Coil |
| TFL05 | 5 | .185 | 4.70 | .182 | 4.62 | .196 | 4.98 | .010 ± .003 | 0.25 ± 0.08 | Random Length Coil |
| TFL04 | 4 | .208 | 5.28 | .204 | 5.18 | .224 | 5.69 | .010 ± .003 | 0.25 ± 0.08 | Random Length Coil |
| TFL03 | 3 | .234 | 5.94 | .229 | 5.82 | .249 | 6.32 | .010 ± .003 | 0.25 ± 0.08 | Random Length Coil |
| TFL02 | 2 | .263 | 6.68 | .258 | 6.55 | .278 | 7.06 | .010 ± .003 | 0.25 ± 0.08 | Random Length Coil |
| TFL01 | 1 | .294 | 7.47 | .289 | 7.34 | .311 | 7.90 | .012 ± .003 | 0.31 ± 0.08 | Random Length Coil |
| TFL00 | 0 | .330 | 8.38 | .325 | 8.25 | .347 | 8.81 | .012 ± .003 | 0.31 ± 0.08 | Random Length Coil |

Certifications

- Light Wall (TFL) – ASTM D 3295, Class 1, AMS 3654C
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com

For detailed ordering information, please consult price list or contact Parflex® Division.

PTFE Tubing

Series Fractional: 101 Industrial & Heavy Wall



Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

Applications/Markets



- Electrical Insulation
- Fluid Transfer
- Gas Sampling
- Laboratory

Certifications

- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

101 PTFE Industrial Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|--------------|-----------|-------|-----------|--------------|-----------|-------|-----------|----------------|------|---------------------------------|-----|-------------------------------|-----|
| # | | | | | | | | | | | | | | | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 101-0094031 | 3/32 | .094 | ± .005 | 2.40 | ± 0.13 | .031 | ± .002 | 0.79 | ± 0.05 | .031 | 0.79 | 390 | 27 | 1950 | 134 |
| 101-0125031 | 1/8 | .125 | ± .005 | 3.18 | ± 0.13 | .063 | ± .003 | 1.57 | ± 0.05 | .031 | 0.79 | 290 | 20 | 1450 | 100 |
| 101-0156031 | 5/32 | .156 | ± .005 | 3.99 | ± 0.13 | .094 | ± .004 | 2.39 | ± 0.08 | .031 | 0.79 | 220 | 15 | 1100 | 76 |
| 101-0188031 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .031 | 0.79 | 180 | 12 | 900 | 62 |
| 101-0250031 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .190 | ± .005 | 4.83 | ± 0.13 | .031 | 0.79 | 130 | 9 | 650 | 45 |
| 101-0312031 | 5/16 | .312 | ± .005 | 7.92 | ± 0.13 | .250 | ± .007 | 6.35 | ± 0.18 | .031 | 0.79 | 100 | 7 | 500 | 34 |
| 101-0375031 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .312 | ± .006 | 7.92 | ± 0.15 | .031 | 0.79 | 80 | 6 | 400 | 28 |
| 101-0438031 | 7/16 | .438 | ± .005 | 11.13 | ± 0.13 | .375 | ± .007 | 9.52 | ± 0.18 | .031 | 0.79 | 70 | 5 | 350 | 24 |
| 101-0500031 | 1/2 | .500 | ± .006 | 12.70 | ± 0.15 | .438 | ± .008 | 11.13 | ± 0.20 | .031 | 0.79 | 60 | 4 | 300 | 21 |
| 101-0563031 | 9/16 | .563 | ± .007 | 14.30 | ± 0.18 | .500 | ± .010 | 12.70 | ± 0.25 | .031 | 0.79 | 55 | 4 | 275 | 19 |
| 101-0625031 | 5/8 | .625 | ± .007 | 15.88 | ± 0.18 | .563 | ± .010 | 14.30 | ± 0.25 | .031 | 0.79 | 50 | 3 | 250 | 17 |
| 101-0688031 | 11/16 | .688 | ± .010 | 17.48 | ± 0.25 | .625 | ± .012 | 15.88 | ± 0.31 | .031 | 0.79 | 45 | 3 | 225 | 16 |
| 101-0750032 | 3/4 | .750 | ± .010 | 19.05 | ± 0.25 | .688 | ± .012 | 17.48 | ± 0.31 | .032 | 0.81 | 40 | 3 | 200 | 14 |
| 101-0830040 | .830 | .830 | ± .014 | 21.08 | ± 0.36 | .750 | ± .014 | 19.05 | ± 0.36 | .040 | 1.02 | 45 | 3 | 225 | 16 |
| 101-0965045 | .965 | .965 | ± .016 | 24.51 | ± 0.41 | .875 | ± .016 | 22.22 | ± 0.41 | .045 | 1.14 | 45 | 3 | 225 | 16 |
| 101-1100050 | 1.100 | 1.100 | ± .020 | 27.94 | ± 0.51 | 1.000 | ± .020 | 25.40 | ± 0.51 | .050 | 1.27 | 40 | 3 | 200 | 14 |

Order Information

Example: 101-0188062-0TC-100

101-0188062-0TC-100 – PTFE

101-**0188**062-0TC-100 – **Tube O.D.** in inches (**3/16"**)






101-0188**062**-0TC-100 – **Tube Wall Thickness** in inches (**.062"**)

101-0188062-**0TC**-100 – **Black**

101-0188062-0TC-**100** – **Package Quantity** in feet (**100'**)

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

101 PTFE Heavy Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|-------------------------------------------------------------------------------------|-----------|-------|-----------|-------------------------------------------------------------------------------------|-----------|-------|-----------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|------|
| # | |  | | | |  | | | |  | |  | |  | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 101-0188062 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .063 | ± .003 | 1.57 | ± 0.05 | .062 | 1.57 | 390 | 27 | 1950 | 134 |
| 101-0250047 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .157 | ± .005 | 3.99 | ± 0.13 | .047 | 1.19 | 210 | 14 | 1050 | 72 |
| 101-0250062 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .062 | 1.57 | 290 | 20 | 1450 | 100 |
| 101-0312062 | 5/16 | .312 | ± .005 | 7.92 | ± 0.13 | .188 | ± .006 | 4.76 | ± 0.15 | .062 | 1.57 | 222 | 15 | 1110 | 77 |
| 101-0375062 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .250 | ± .005 | 6.35 | ± 0.13 | .062 | 1.57 | 180 | 12 | 900 | 62 |
| 101-0438062 | 7/16 | .438 | ± .005 | 11.13 | ± 0.13 | .312 | ± .007 | 7.92 | ± 0.18 | .062 | 1.57 | 150 | 10 | 750 | 52 |
| 101-0500062 | 1/2 | .500 | ± .005 | 12.70 | ± 0.13 | .375 | ± .005 | 9.52 | ± 0.13 | .062 | 1.57 | 130 | 9 | 650 | 45 |
| 101-0563062 | 9/16 | .563 | ± .007 | 14.30 | ± 0.18 | .437 | ± .008 | 11.13 | ± 0.20 | .062 | 1.57 | 110 | 8 | 550 | 38 |
| 101-0625062 | 5/8 | .625 | ± .007 | 15.88 | ± 0.18 | .500 | ± .010 | 12.70 | ± 0.25 | .062 | 1.57 | 100 | 7 | 500 | 34 |
| 101-0688062 | 11/16 | .688 | ± .010 | 17.48 | ± 0.25 | .563 | ± .010 | 14.30 | ± 0.25 | .062 | 1.57 | 90 | 6 | 450 | 31 |
| 101-0750062 | 3/4 | .750 | ± .010 | 19.05 | ± 0.25 | .625 | ± .010 | 15.88 | ± 0.25 | .062 | 1.57 | 80 | 6 | 400 | 28 |
| 101-0875062 | 7/8 | .875 | ± .014 | 22.22 | ± 0.36 | .750 | ± .014 | 19.05 | ± 0.36 | .062 | 1.57 | 70 | 5 | 350 | 24 |
| 101-0100062 | 1 | 1.000 | ± .016 | 25.40 | ± 0.25 | .875 | ± .016 | 22.22 | ± 0.36 | .062 | 1.57 | 100 | 6.9 | 490 | 33.8 |

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Fittings

- Fittings available for sizes 3/32" up to 1.1"

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compression-Align®
- Fast & Tite
- TrueSeal™

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000



PTFE Tubing

Series Metric: 201



Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

Applications/Markets



- Electrical Insulation
- Fluid Transfer
- Gas Sampling
- Laboratory

Certifications

- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

201 Metric PTFE Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|--------------|-----------|------|-----------|--------------|-----------|------|-----------|----------------|------|---------------------------------|-----|-------------------------------|-----|
| # | | | | | | | | | | | | | | | |
| | mm | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | inch | psi | bar | psi | bar |
| 201-0300100 | 3 | 3 | ± 0.11 | .118 | ± .004 | 1 | ± 0.11 | .039 | ± .004 | 1 | .039 | 390 | 27 | 1950 | 134 |
| 201-0400100 | 4 | 4 | ± 0.11 | .157 | ± .004 | 2 | ± 0.11 | .074 | ± .004 | 1 | .039 | 290 | 20 | 1450 | 100 |
| 201-0500100 | 5 | 5 | ± 0.11 | .197 | ± .004 | 3 | ± 0.11 | .118 | ± .004 | 1 | .039 | 220 | 15 | 1100 | 76 |
| 201-0600100 | 6 | 6 | ± 0.13 | .236 | ± .005 | 4 | ± 0.13 | .157 | ± .005 | 1 | .039 | 180 | 12 | 900 | 62 |
| 201-0700100 | 7 | 7 | ± 0.13 | .276 | ± .005 | 5 | ± 0.13 | .197 | ± .005 | 1 | .039 | 150 | 10 | 750 | 52 |
| 201-0800100 | 8 | 8 | ± 0.13 | .315 | ± .005 | 6 | ± 0.13 | .236 | ± .005 | 1 | .039 | 130 | 9 | 650 | 45 |
| 201-0900100 | 9 | 9 | ± 0.13 | .354 | ± .005 | 7 | ± 0.13 | .276 | ± .005 | 1 | .039 | 110 | 8 | 550 | 38 |
| 201-1000100 | 10 | 10 | ± 0.13 | .394 | ± .005 | 8 | ± 0.13 | .315 | ± .005 | 1 | .039 | 100 | 7 | 500 | 34 |
| 201-1200100 | 12 | 12 | ± 0.15 | .472 | ± .006 | 10 | ± 0.15 | .394 | ± .006 | 1 | .039 | 80 | 6 | 400 | 28 |
| 201-1400100 | 14 | 14 | ± 0.15 | .551 | ± .006 | 12 | ± 0.15 | .472 | ± .006 | 1 | .039 | 70 | 5 | 350 | 24 |
| 201-1600100 | 16 | 16 | ± 0.15 | .630 | ± .006 | 14 | ± 0.15 | .551 | ± .006 | 1 | .039 | 60 | 4 | 300 | 21 |

Order Information

Example: 201-0800100-NT-100

201-0800100-NT-100 – **Metric PTFE**

201-**0800**100-NT-100 – **Tube O.D.** in millimeters (**8 mm**)

201-0800**100**-NT-100 – **Tube Wall Thickness** in millimeters (**1 mm**)

201-0800100-**NT**-100 – **Natural**

2010800100-NT-**100** – **Package Quantity** in feet (**100'**)

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

Fittings

- Fittings available for sizes 3mm up to 16mm

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

PTFE Beading

Series Fractional: TFB



Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

Applications/Markets



- Pull Cord
- O-Ring Seals
- Spacers
- Woven Filter

Certifications

- ASTM D1710, Type 1, Grade 1, Class B
- FDA Compliant
- USP Class VI Compliant

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Package quantities are not continuous

Colors

- Natural, Opaque to translucent

See Color Code Table

Order Information

Example: TFB028-NT

TFB-028-NT – PTFE Beading

TFB-028-NT – Beading O.D. in inches (.028")

TFB-028-NT – Natural

TFB-028-NT – Bulk Tubing

TFB PTFE Beading

| Part Number | Diameter | | Tolerance | | Standard Packaging |
|-------------|----------|------|-----------|--------|--------------------|
| # | | | | | |
| | inch | mm | inch | mm | |
| TFB015 | .015 | 0.38 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB020 | .020 | 0.51 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB025 | .025 | 0.64 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB028 | .028 | 0.71 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB031 | .031 | 0.79 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB035 | .035 | 0.89 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB039 | .039 | 0.99 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB043 | .043 | 1.09 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB047 | .047 | 1.19 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB050 | .050 | 1.27 | ± .002 | ± 0.05 | 1,000 ft. Spool |
| TFB055 | .055 | 1.40 | ± .003 | ± 0.08 | 1,000 ft. Spool |
| TFB060 | .060 | 1.52 | ± .003 | ± 0.08 | 1,000 ft. Spool |
| TFB062 | .062 | 1.57 | ± .003 | ± 0.08 | 1,000 ft. Spool |
| TFB070 | .070 | 1.78 | ± .003 | ± 0.08 | 1,000 ft. Spool |
| TFB072 | .072 | 1.83 | ± .003 | ± 0.08 | 1,000 ft. Spool |
| TFB078 | .078 | 1.98 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB080 | .080 | 2.03 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB084 | .084 | 2.13 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB090 | .090 | 2.29 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB094 | .094 | 2.39 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB100 | .100 | 2.54 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB109 | .109 | 2.77 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB115 | .115 | 2.92 | ± .004 | ± 0.10 | 500 ft. Spool |
| TFB125 | .125 | 3.18 | ± .004 | ± 0.10 | Random Length |
| TFB150 | .150 | 3.81 | ± .004 | ± 0.10 | Random Length |
| TFB188 | .188 | 4.78 | ± .004 | ± 0.10 | Random Length |

For detailed ordering information, please consult price list or contact Parflex® Division.

PTFE Heat Shrinkable Tubing

Series 2:1 Fractional: HS2TFS, HS2TFT, HS2TFL, HS2TFI



Features

- Virgin Polytetrafluoroethylene resin
- 2:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting

Applications/Markets



- Electrical Insulation
- Protective Cover
- Laboratory

Certifications

- Light Wall (HS2TFL) – AMS-DTL-23053/12, Class 4
- Thin Wall (HS2TFT) – AMS-DTL-23053/12, Class 3, AMS 3585
- Standard Wall (HS2TFS) – AMS-DTL-23053/12, Class 2, AMS 3586
- Heavy Wall (HS2TFI) – AMS-DTL-23053/12, Class 2
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

HS2TFS & HS2TFT PTFE Fractional Heat Shrink Tubing (2:1) SW & TW

| Size (Inch) | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Standard Wall | | | | Thin Wall | | | |
|----------------|-----------------------------|------|------------------------------|------|---------------|----------------|---------------------------|-------------|--------------|----------------|---------------------------|-------------|
| | | | | | Mil Spec* | Part Number | Nominal Recovered Wall | | Mil Spec* | Part Number | Nominal Recovered Wall | |
| | inch | mm | inch | mm | | | inch | mm | | | inch | mm |
| 1/8 | .215 | 5.5 | .130 | 3.3 | 23053/12-215 | HS2TFS1/8 | .020 ± .004 | 0.51 ± 0.10 | 23053/12-319 | HS2TFT1/8 | .015 ± .003 | 0.38 ± 0.08 |
| 1/4 | .410 | 10.4 | .260 | 6.6 | 23053/12-222 | HS2TFS1/4 | .020 ± .004 | 0.51 ± 0.10 | 23053/12-326 | HS2TFT1/4 | .015 ± .004 | 0.38 ± 0.10 |
| 5/16 | .470 | 11.9 | .329 | 8.4 | 23053/12-225 | HS2TFS5/16 | .020 ± .004 | 0.51 ± 0.10 | 23053/12-329 | HS2TFT5/16 | .015 ± .004 | 0.38 ± 0.10 |
| 3/8 | .560 | 14.2 | .399 | 10.1 | 23053/12-228 | HS2TFS3/8 | .025 ± .006 | 0.64 ± 0.15 | - | HS2TF 3/8 | .015 ± .004 | 0.38 ± 0.10 |
| 7/16 | .655 | 16.6 | .462 | 11.7 | 23053/12-229 | HS2TFS7/16 | .025 ± .006 | 0.64 ± 0.15 | - | HS2TFT7/16 | .018 ± .004 | 0.46 ± 0.10 |
| 1/2 | .750 | 19.1 | .524 | 13.3 | 23053/12-230 | HS2TFS1/2 | .025 ± .006 | 0.64 ± 0.15 | - | HS2TFT1/2 | .018 ± .004 | 0.46 ± 0.10 |
| 5/8 | .930 | 23.6 | .655 | 16.6 | 23053/12-231 | HS2TFS5/8 | .030 ± .006 | 0.76 ± 0.15 | - | HS2TF 5/8 | .020 ± .004 | 0.51 ± 0.10 |
| 3/4 | 1.125 | 28.6 | .786 | 20.0 | 23053/12-232 | HS2TFS3/4 | .035 ± .008 | 0.89 ± 0.20 | - | HS2TFT3/4 | .025 ± .004 | 0.64 ± 0.10 |
| 7/8 | 1.130 | 28.7 | .911 | 23.1 | 23053/12-233 | HS2TFS7/8 | .035 ± .008 | 0.89 ± 0.20 | - | HS2TFT7/8 | .025 ± .004 | 0.64 ± 0.10 |
| 1 | 1.500 | 38.1 | 1.036 | 26.3 | 23053/12-234 | HS2TFS1.00 | .035 ± .008 | 0.89 ± 0.20 | - | HS2TFT1.00 | .025 ± .004 | 0.64 ± 0.10 |

HS2TFL PTFE Fractional Heat Shrink Tubing (2:1) LW

| Size (Inch) | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Light Wall | | | |
|----------------|-----------------------------|------|------------------------------|-----|--------------|----------------|---------------------------|-------------|
| | | | | | Mil Spec* | Part Number | Nominal Recovered Wall | |
| | inch | mm | inch | mm | | | inch | mm |
| 1/8 | .215 | 5.5 | .130 | 3.3 | 23053/12-415 | HS2TFL1/8 | .008 ± .002 | 0.20 ± 0.05 |
| 1/4 | .410 | 10.4 | .260 | 6.6 | 23053/12-422 | HS2TFL1/4 | .010 ± .003 | 0.25 ± 0.08 |
| 5/16 | .470 | 11.9 | .329 | 8.4 | 23053/12-425 | HS2TFL5/16 | .012 ± .003 | 0.31 ± 0.08 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Order Information

Example: HS2TFI7/8-NT

HS2TFI7/8-NT – Heat Shrink

HS2TFI7/8-NT – Shrink Ratio (2:1)

HS2TFI7/8-NT – PTFE

HS2TFI7/8-NT – Wall Type (Industrial Wall)

HS2TFI7/8-NT – Heat Shrink Size in inches (7/8")

HS2TFI7/8-NT – Natural

HS2TFI7/8-NT – Bulk Tubing

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Shrink Temperature 662°F/350°C for 10 minutes per AMS-DTL-23053/12
- *Dielectric Strength: $\geq 1,400$ V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- PTFE Fractional Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC .. ie HS1.3FEP24-0CC48.000

HS2TFI PTFE Fractional Heat Shrink Tubing (2:1), Ind. Heavy Wall

| Part Number | Size (inch) | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|-------------|-------------|--------------|-----------------------|------|------------------------|------|------------------------|-----------------|
| | inch | | inch | mm | inch | mm | inch | mm |
| HS2TFI1/8 | 1/8 | 23053/12-101 | .166 | 4.2 | .130 | 3.3 | .030 \pm .005 | 0.76 \pm 0.13 |
| HS2TFI3/16 | 3/16 | 23053/12-102 | .250 | 6.4 | .193 | 4.9 | .030 \pm .005 | 0.76 \pm 0.13 |
| HS2TFI1/4 | 1/4 | 23053/12-103 | .333 | 8.4 | .257 | 6.5 | .030 \pm .005 | 0.76 \pm 0.13 |
| HS2TFI5/16 | 5/16 | 23053/12-104 | .415 | 10.5 | .320 | 8.1 | .030 \pm .005 | 0.76 \pm 0.13 |
| HS2TFI3/8 | 3/8 | 23053/12-105 | .498 | 12.6 | .383 | 9.7 | .030 \pm .005 | 0.76 \pm 0.13 |
| HS2TFI7/16 | 7/16 | 23053/12-106 | .580 | 14.7 | .448 | 11.4 | .030 \pm .006 | 0.76 \pm 0.15 |
| HS2TFI1/2 | 1/2 | 23053/12-107 | .666 | 16.9 | .510 | 13.0 | .030 \pm .006 | 0.76 \pm 0.15 |
| HS2TFI9/16 | 9/16 | 23053/12-108 | .748 | 19.0 | .572 | 14.5 | .030 \pm .006 | 0.76 \pm 0.15 |
| HS2TFI5/8 | 5/8 | 23053/12-109 | .830 | 21.1 | .637 | 16.2 | .030 \pm .006 | 0.76 \pm 0.15 |
| HS2TFI11/16 | 11/16 | 23053/12-110 | .915 | 23.2 | .700 | 17.8 | .032 \pm .006 | 0.81 \pm 0.15 |
| HS2TFI3/4 | 3/4 | 23053/12-111 | 1.000 | 25.4 | .764 | 19.4 | .040 \pm .007 | 1.02 \pm 0.18 |
| HS2TFI7/8 | 7/8 | 23053/12-112 | 1.170 | 29.7 | .891 | 22.6 | .045 \pm .007 | 1.14 \pm 0.18 |
| HS2TFI1.00 | 1 | 23053/12-113 | 1.330 | 33.8 | 1.020 | 25.9 | .050 \pm .008 | 1.27 \pm 0.20 |

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

PTFE Heat Shrinkable Tubing

Series 2:1 AWG: HS2TFS, HS2TFT, HS2TFL



Features

- Virgin Polytetrafluoroethylene resin
- 2:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting

Certifications

- Light Wall – AMS-DTL-23053/12, Class 4
- Thin Wall – AMS-DTL-23053/12, Class 3, AMS 3585
- Standard Wall – AMS-DTL-23053/12, Class 2, AMS 3586
- Heavy Wal – AMS-DTL-23053/12, Class 2
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

Applications/Markets



- Electrical Insulation
- Protective Cover
- Wire Insulation

HS2TFS Standard Wall (2:1)

| Part Number | Size (AWG) | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|-------------|------------|--------------|-----------------------|------|------------------------|------|------------------------|-------------|
| | | | inch | mm | inch | mm | inch | mm |
| HS2TFS24 | 24 | 23053/12-201 | .050 | 1.27 | .027 | 0.69 | .012 ± .002 | 0.31 ± 0.05 |
| HS2TFS22 | 22 | 23053/12-202 | .055 | 1.40 | .032 | 0.81 | .012 ± .002 | 0.31 ± 0.05 |
| HS2TFS20 | 20 | 23053/12-203 | .060 | 1.52 | .039 | 0.99 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS19 | 19 | 23053/12-204 | .065 | 1.65 | .043 | 1.09 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS18 | 18 | 23053/12-205 | .076 | 1.93 | .049 | 1.25 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS17 | 17 | 23053/12-206 | .085 | 2.16 | .054 | 1.37 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS16 | 16 | - | .093 | 2.36 | .061 | 1.55 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS15 | 15 | 23053/12-207 | .110 | 2.79 | .067 | 1.70 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS14 | 14 | 23053/12-208 | .120 | 3.05 | .072 | 1.83 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS13 | 13 | 23053/12-210 | .140 | 3.56 | .080 | 2.03 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS12 | 12 | 23053/12-211 | .150 | 3.81 | .089 | 2.26 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS11 | 11 | 23053/12-212 | .170 | 4.32 | .101 | 2.57 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS10 | 10 | 23053/12-213 | .191 | 4.85 | .112 | 2.84 | .016 ± .003 | 0.41 ± 0.08 |
| HS2TFS09 | 9 | 23053/12-214 | .205 | 5.21 | .124 | 3.15 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS08 | 8 | 23053/12-216 | .240 | 6.10 | .141 | 3.58 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS07 | 7 | 23053/12-217 | .270 | 6.86 | .158 | 4.01 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS06 | 6 | 23053/12-218 | .302 | 7.67 | .178 | 4.52 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS05 | 5 | 23053/12-219 | .320 | 8.13 | .198 | 5.03 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS04 | 4 | 23053/12-220 | .370 | 9.40 | .224 | 5.69 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS03 | 3 | 23053/12-221 | .390 | 9.91 | .249 | 6.32 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS02 | 2 | 23053/12-223 | .430 | 10.9 | .278 | 7.06 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS01 | 1 | 23053/12-224 | .450 | 11.4 | .311 | 7.90 | .020 ± .004 | 0.51 ± 0.10 |
| HS2TFS00 | 0 | 23053/12-226 | .470 | 11.9 | .347 | 8.81 | .020 ± .004 | 0.51 ± 0.10 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Order Information

Example: HS2TFS15-4TC-500

HS2TFS15-4TC-500 – **Heat Shrink**

HS2TFS15-4TC-500 – **Shrink Ratio (2:1)**

HS2TFS15-4TC-500 – **PTFE**

HS2TFS15-4TC-500 – **Wall Type (Standard Wall)**

HS2TFS15-4TC-500 – **Heat Shrink Size in AWG (AWG15)**

HS2TFS15-4TC-500 – **Yellow**

HS2TFS15-4TC-500 – **Package Quantity in feet (500')**

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Shrink Temperature 662°F/350°C for 10 minutes per AMS-DTL-23053/12
- *Dielectric Strength: $\geq 1,400$ V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- PTFE AWG Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

PTFE Heat Shrinkable Tubing

Series 2:1 AWG: HS2TFS, HS2TFT, HS2TFL (cont.)

HS2TFT Thin Wall (2:1)

| Part Number | Size (AWG) | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|-------------|------------|--------------|-----------------------|------|------------------------|------|------------------------|-------------|
| | | | inch | mm | inch | mm | inch | mm |
| HS2TFT30 | 30 | 23053/12-301 | .034 | 0.86 | .015 | 0.38 | .009 ± .002 | 0.23 ± 0.05 |
| HS2TFT28 | 28 | 23053/12-302 | .038 | 0.97 | .018 | 0.46 | .009 ± .002 | 0.23 ± 0.05 |
| HS2TFT26 | 26 | 23053/12-303 | .046 | 1.16 | .022 | 0.56 | .010 ± .003 | 0.25 ± 0.08 |
| HS2TFT24 | 24 | 23053/12-304 | .050 | 1.27 | .027 | 0.69 | .010 ± .002 | 0.25 ± 0.08 |
| HS2TFT22 | 22 | 23053/12-305 | .055 | 1.40 | .032 | 0.81 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT20 | 20 | 23053/12-306 | .060 | 1.52 | .039 | 0.99 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT19 | 19 | 23053/12-307 | .065 | 1.65 | .043 | 1.09 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT18 | 18 | 23053/12-308 | .076 | 1.93 | .049 | 1.25 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT17 | 17 | 23053/12-309 | .085 | 2.16 | .054 | 1.37 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT16 | 16 | 23053/12-310 | .093 | 2.36 | .061 | 1.55 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT15 | 15 | 23053/12-311 | .110 | 2.79 | .067 | 1.70 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT14 | 14 | 23053/12-312 | .120 | 3.05 | .072 | 1.83 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT13 | 13 | 23053/12-313 | .140 | 3.56 | .080 | 2.03 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT12 | 12 | 23053/12-314 | .150 | 3.81 | .089 | 2.26 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT11 | 11 | 23053/12-316 | .170 | 4.32 | .101 | 2.57 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT10 | 10 | 23053/12-317 | .191 | 4.85 | .112 | 2.84 | .012 ± .003 | 0.31 ± 0.08 |
| HS2TFT09 | 9 | 23053/12-318 | .205 | 5.21 | .124 | 3.15 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT08 | 8 | 23053/12-320 | .240 | 6.10 | .141 | 3.58 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT07 | 7 | 23053/12-321 | .270 | 6.86 | .158 | 4.01 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT06 | 6 | 23053/12-322 | .302 | 7.67 | .178 | 4.52 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT05 | 5 | 23053/12-323 | .320 | 8.13 | .198 | 5.03 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT04 | 4 | 23053/12-324 | .370 | 9.40 | .224 | 5.69 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT03 | 3 | 23053/12-325 | .390 | 9.91 | .249 | 6.32 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT02 | 2 | 23053/12-327 | .430 | 10.9 | .278 | 7.06 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT01 | 1 | 23053/12-328 | .450 | 11.4 | .311 | 7.90 | .015 ± .004 | 0.38 ± 0.10 |
| HS2TFT00 | 0 | 23053/12-330 | .470 | 11.9 | .347 | 8.81 | .015 ± .004 | 0.38 ± 0.10 |

Certifications

- Thin Wall – AMS-DTL-23053/12, Class 3
- AMS 3585
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

HS2TFL Light Wall (2:1)

| Part Number | Size (AWG) | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|-------------|---------------|--------------|--------------------------|------|---------------------------|------|---------------------------|-------------|
| | | | inch | mm | inch | mm | inch | mm |
| HS2TFL24 | 24 | 23053/12-404 | .050 | 1.27 | .025 | 0.64 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL22 | 22 | 23053/12-405 | .055 | 1.40 | .031 | 0.79 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL20 | 20 | 23053/12-406 | .060 | 1.52 | .038 | 0.97 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL19 | 19 | 23053/12-407 | .065 | 1.65 | .043 | 1.09 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL18 | 18 | 23053/12-408 | .076 | 1.93 | .046 | 1.17 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL17 | 17 | 23053/12-409 | .085 | 2.16 | .054 | 1.37 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL16 | 16 | 23053/12-410 | .093 | 2.36 | .057 | 1.45 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL15 | 15 | 23053/12-411 | .110 | 2.79 | .063 | 1.60 | .006 ± .002 | 0.15 ± 0.05 |
| HS2TFL14 | 14 | 23053/12-412 | .120 | 3.05 | .072 | 1.83 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL13 | 13 | 23053/12-413 | .140 | 3.56 | .080 | 2.03 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL12 | 12 | 23053/12-414 | .150 | 3.81 | .089 | 2.26 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL11 | 11 | 23053/12-416 | .170 | 4.32 | .099 | 2.51 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL10 | 10 | 23053/12-417 | .191 | 4.85 | .110 | 2.79 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL09 | 9 | 23053/12-418 | .205 | 5.21 | .122 | 3.10 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL08 | 8 | 23053/12-420 | .240 | 6.10 | .139 | 3.53 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL07 | 7 | 23053/12-421 | .270 | 6.86 | .154 | 3.91 | .008 ± .002 | 0.20 ± 0.05 |
| HS2TFL06 | 6 | 23053/12-422 | .302 | 7.67 | .172 | 4.37 | .010 ± .003 | 0.25 ± 0.08 |
| HS2TFL05 | 5 | 23053/12-423 | .320 | 8.13 | .192 | 4.88 | .010 ± .003 | 0.25 ± 0.08 |
| HS2TFL04 | 4 | 23053/12-424 | .370 | 9.40 | .214 | 5.44 | .010 ± .003 | 0.25 ± 0.08 |
| HS2TFL03 | 3 | 23053/12-425 | .390 | 9.91 | .241 | 6.12 | .010 ± .003 | 0.25 ± 0.08 |
| HS2TFL02 | 2 | 23053/12-427 | .430 | 10.9 | .270 | 6.88 | .010 ± .003 | 0.25 ± 0.08 |
| HS2TFL01 | 1 | 23053/12-428 | .450 | 11.4 | .301 | 7.65 | .010 ± .003 | 0.25 ± 0.08 |
| HS2TFL00 | 0 | 23053/12-430 | .470 | 11.9 | .347 | 8.81 | .012 ± .003 | 0.31 ± 0.08 |

Certifications

- Light Wall – AMS-DTL-23053/12, Class 4
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

Notes

- Available from TexLoc Business Unit,
Ft. Worth, Texas (817) 625-5081 or
email texloc@parker.com

PTFE Heat Shrinkable Tubing

Series 4:1 AWG: HS4TFI



Features

- Virgin Polytetrafluoroethylene resin
- 4:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting

Applications/Markets



- Electrical Insulation
- Protective Cover
- Rollers
- Bulb Protection

Certifications

- AMS-DTL-23053/12, Class 5
- ASTM D2902 Type I
- AMS 3584
- FDA Compliant
- USP Class VI Compliant

HS4TFI PTFE Industrial Wall Heat Shrink Tubing (4:1)

| Part Number | Size (inch) | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|-------------|-------------|--------------|-----------------------|------|------------------------|------|------------------------|-------------|
| | | | inch | mm | inch | mm | inch | mm |
| HS4TFI5/64 | 5/64 | 23053/12-501 | .078 | 1.98 | .025 | 0.64 | .009 ± .002 | 0.23 ± 0.05 |
| HS4TFI1/8 | 1/8 | 23053/12-502 | .125 | 3.18 | .037 | 0.94 | .012 ± .002 | 0.31 ± 0.05 |
| HS4TFI3/16 | 3/16 | 23053/12-503 | .187 | 4.75 | .050 | 1.27 | .012 ± .002 | 0.31 ± 0.05 |
| HS4TFI1/4 | 1/4 | 23053/12-504 | .250 | 6.35 | .063 | 1.60 | .012 ± .002 | 0.31 ± 0.05 |
| HS4TFI5/16 | 5/16 | 23053/12-505 | .312 | 7.92 | .078 | 1.98 | .012 ± .002 | 0.31 ± 0.05 |
| HS4TFI3/8 | 3/8 | 23053/12-506 | .375 | 9.52 | .096 | 2.44 | .012 ± .002 | 0.31 ± 0.05 |
| HS4TFI7/16 | 7/16 | 23053/12-507 | .438 | 11.1 | .112 | 2.84 | .012 ± .002 | 0.31 ± 0.05 |
| HS4TFI1/2 | 1/2 | 23053/12-508 | .500 | 12.7 | .144 | 3.66 | .015 ± .004 | 0.38 ± 0.10 |
| HS4TFI5/8 | 5/8 | 23053/12-510 | .625 | 15.9 | .178 | 4.52 | .015 ± .004 | 0.38 ± 0.10 |
| HS4TFI3/4 | 3/4 | 23053/12-512 | .750 | 19.1 | .224 | 5.70 | .015 ± .004 | 0.38 ± 0.10 |
| HS4TFI7/8 | 7/8 | 23053/12-513 | .875 | 22.2 | .244 | 6.20 | .015 ± .004 | 0.38 ± 0.10 |
| HS4TFI1.00 | 1 | 23053/12-514 | 1.000 | 25.4 | .278 | 7.06 | .015 ± .004 | 0.38 ± 0.10 |
| HS4TFI1.25 | 1-1/4 | 23053/12-515 | 1.250 | 31.8 | .347 | 8.81 | .015 ± .004 | 0.38 ± 0.10 |

Order Information

Example: HS4TFI5/8-NT

HS4TFI5/8-NT – Heat Shrink

HS4TFI5/8-NT – Shrink Ratio (4:1)

HS4TFI5/8-NT – PTFE

HS4TFI5/8-NT – Wall Type (Industrial Wall)

HS4TFI5/8-NT – Heat Shrink Size in inches (5/8")

HS4TFI5/8-NT – Natural

HS4TFI5/8-NT – Bulk Tubing

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Shrink Temperature 662°F/350°C for 10 minutes per AMS-DTL-23053/12
- For full recovery, expanded diameter should be 50% larger than the diameter of the object to be recovered over
- *Dielectric Strength: $\geq 1,400$ V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- PTFE Fractional Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

Colors

- Natural, Opaque to translucent

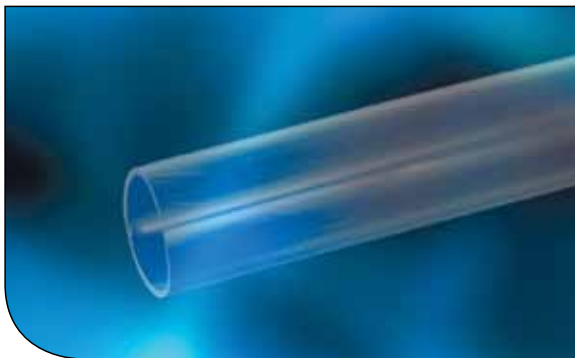
See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC
..ie HS1.3FEP24-0CC48.000

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

FEP Tubing

Series Fractional: 103 Industrial & Heavy Wall



Features

- Virgin Fluorinated Ethylene Propylene resin
- Translucent
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Nonwetting
- Weldable

Certifications






- ASTM D 3296-98
- FDA Compliant
- USP Class VI Compliant

Applications/Markets



- Nitrogen Filling
- Fluid Transfer
- Gas Sampling
- Laboratory
- Down Hole Pump
- Ozone Sampling
- Life Science

103 FEP Industrial Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F /23°C | | Burst Pressure at 73°F /23°C | |
|-------------|------------|-------------------------------------------------------------------------------------|-----------|-------|-----------|-------------------------------------------------------------------------------------|-----------|------|-----------|--------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|
| # | |  | | | |  | | | |  | |  | |  | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 103-0062016 | 1/16 | .062 | ± .003 | 1.57 | ± 0.08 | .031 | ± .003 | 0.41 | ± 0.08 | .016 | 0.79 | 480 | 33 | 2400 | 165 |
| 103-0094031 | 3/32 | .094 | ± .005 | 2.40 | ± 0.13 | .031 | ± .002 | 0.79 | ± 0.05 | .031 | 0.79 | 630 | 43 | 3150 | 217 |
| 103-0125031 | 1/8 | .125 | ± .003 | 3.18 | ± 0.08 | .062 | ± .003 | 0.79 | ± 0.08 | .031 | 1.57 | 470 | 32 | 2350 | 162 |
| 103-0156031 | 5/32 | .157 | ± .005 | 3.99 | ± 0.13 | .094 | ± .005 | 0.79 | ± 0.13 | .031 | 2.39 | 360 | 25 | 1800 | 124 |
| 103-0188031 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .125 | ± .005 | 0.79 | ± 0.13 | .031 | 3.18 | 290 | 20 | 1450 | 100 |
| 103-0250031 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .188 | ± .005 | 0.79 | ± 0.13 | .031 | 4.78 | 210 | 14 | 1050 | 72 |
| 103-0312031 | 5/16 | .312 | ± .005 | 7.92 | ± 0.13 | .250 | ± .005 | 0.79 | ± 0.13 | .031 | 6.35 | 160 | 11 | 800 | 55 |
| 103-0375031 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .312 | ± .005 | 0.79 | ± 0.13 | .031 | 7.92 | 130 | 9 | 650 | 45 |
| 103-0438031 | 7/16 | .438 | ± .005 | 11.13 | ± 0.13 | .375 | ± .005 | 0.79 | ± 0.13 | .031 | 9.52 | 110 | 8 | 550 | 38 |
| 103-0500031 | 1/2 | .500 | ± .006 | 12.70 | ± 0.15 | .438 | ± .006 | 0.79 | ± 0.15 | .031 | 11.13 | 90 | 6 | 450 | 31 |
| 103-0563031 | 9/16 | .563 | ± .006 | 14.30 | ± 0.15 | .500 | ± .006 | 0.79 | ± 0.15 | .031 | 12.70 | 80 | 6 | 400 | 28 |

Order Information

Example: 103-0250031-NT-100

103-0250031-NT-100 – FEP

103-**0250**031-NT-100 – **Tube O.D.** in inches (**1/4"**)

103-0250**031**-NT-100 – **Tube Wall Thickness** in inches (**.031"**)

103-0250031-**NT**-100 – **Natural**

103-0250031-NT-**100** – **Bulk Tubing**

103-0250031-NT-**100** – **Package Quantity** in feet (**100'**)

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

Fittings

- Fittings available for sizes 1/8" up to 1"

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 400°F (204°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous






Colors

- Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

103 FEP Heavy Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|-------------------------------------------------------------------------------------|-----------|-------|-----------|-------------------------------------------------------------------------------------|-----------|-------|-----------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|
| # | |  | | | |  | | | |  | |  | |  | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 103-0188062 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .062 | ± .005 | 1.63 | ± 0.13 | 0.062 | 1.57 | 630 | 43 | 3150 | 217 |
| 103-0250040 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .170 | ± .005 | 4.32 | ± 0.13 | 0.040 | 1.02 | 280 | 19 | 1400 | 97 |
| 103-0250047 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .156 | ± .005 | 3.96 | ± 0.13 | 0.047 | 1.19 | 340 | 23 | 1700 | 117 |
| 103-0250062 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | 0.062 | 1.57 | 470 | 32 | 2350 | 162 |
| 103-0312062 | 5/16 | .312 | ± .005 | 7.92 | ± 0.13 | .188 | ± .005 | 4.78 | ± 0.13 | 0.062 | 1.57 | 360 | 25 | 1800 | 124 |
| 103-0375062 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .250 | ± .005 | 6.35 | ± 0.13 | 0.062 | 1.57 | 290 | 20 | 1450 | 100 |
| 103-0438062 | 7/16 | .438 | ± .005 | 11.13 | ± 0.13 | .312 | ± .005 | 7.92 | ± 0.13 | 0.062 | 1.57 | 250 | 17 | 1250 | 86 |
| 103-0500062 | 1/2 | .500 | ± .005 | 12.70 | ± 0.13 | .375 | ± .005 | 9.53 | ± 0.13 | 0.062 | 1.57 | 210 | 14 | 1050 | 72 |
| 103-0625062 | 5/8 | .625 | ± .006 | 15.88 | ± 0.15 | .500 | ± .006 | 12.70 | ± 0.15 | 0.062 | 1.57 | 160 | 11 | 800 | 55 |
| 103-0750062 | 3/4 | .750 | ± .006 | 19.05 | ± 0.15 | .625 | ± .006 | 15.88 | ± 0.15 | 0.062 | 1.57 | 130 | 9 | 650 | 45 |
| 103-0100062 | 1 | 1.000 | ± .010 | 25.40 | ± 0.25 | .875 | ± .010 | 22.22 | ± 0.25 | 0.062 | 1.57 | 90 | 6 | 450 | 31 |

For detailed ordering information, please consult price list or contact Parflex® Division.

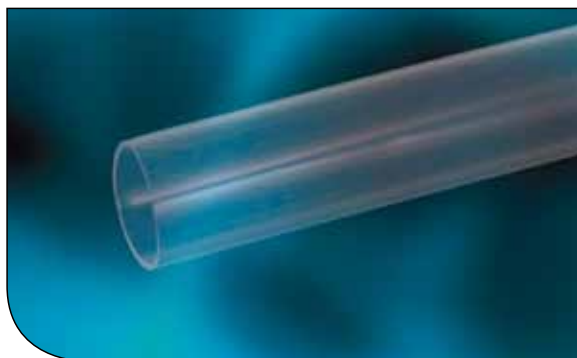
Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



B-71

FEP Tubing

Series Metric: 203



Features

- Virgin Fluorinated Ethylene Propylene resin
- Translucent
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Nonwetting
- Weldable

Certifications






- ASTM D 3296-98
- FDA Compliant
- USP Class VI Compliant

Applications/Markets



- Nitrogen Filling
- Fluid Transfer
- Gas Sampling
- Laboratory
- Down Hole Pump
- Ozone Sampling
- Life Science

203 Metric FEP Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|-------------------------------------------------------------------------------------|-----------|------|-----------|-------------------------------------------------------------------------------------|-----------|------|-----------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|------|
| # | |  | | | |  | | | |  | |  | |  | |
| | mm | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | inch | psi | bar | psi | bar |
| 203-0300100 | 3 | 3 | ± 0.11 | .118 | ± .004 | 1 | ± 0.11 | .039 | ± .004 | 1 | 25.4 | 27 | 390 | 134 | 1950 |
| 203-0400100 | 4 | 4 | ± 0.11 | .157 | ± .004 | 2 | ± 0.11 | .078 | ± .004 | 1 | 25.4 | 20 | 290 | 100 | 1450 |
| 203-0500100 | 5 | 5 | ± 0.11 | .197 | ± .004 | 3 | ± 0.11 | .118 | ± .004 | 1 | 25.4 | 15 | 220 | 76 | 1100 |
| 203-0600100 | 6 | 6 | ± 0.13 | .236 | ± .005 | 4 | ± 0.13 | .157 | ± .005 | 1 | 25.4 | 12 | 180 | 62 | 900 |
| 203-0700100 | 7 | 7 | ± 0.13 | .276 | ± .005 | 5 | ± 0.13 | .197 | ± .005 | 1 | 25.4 | 10 | 150 | 52 | 750 |
| 203-0800100 | 8 | 8 | ± 0.13 | .315 | ± .005 | 6 | ± 0.13 | .236 | ± .005 | 1 | 25.4 | 9 | 130 | 45 | 650 |
| 203-0900100 | 9 | 9 | ± 0.13 | .354 | ± .005 | 7 | ± 0.13 | .276 | ± .005 | 1 | 25.4 | 8 | 110 | 38 | 550 |
| 203-1000100 | 10 | 10 | ± 0.13 | .394 | ± .005 | 8 | ± 0.13 | .315 | ± .005 | 1 | 25.4 | 7 | 100 | 34 | 500 |
| 203-1200100 | 12 | 12 | ± 0.15 | .472 | ± .006 | 10 | ± 0.15 | .394 | ± .006 | 1 | 25.4 | 6 | 80 | 28 | 400 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: 203-0600100-NT-50

203-0600100-NT-50 – **Metric FEP**

203-**0600**100-NT-50 – **Tube O.D.** in millimeters (**6 mm**)

203-0600**100**-NT-50 – **Tube Wall Thickness** in millimeters (**1 mm**)

203-0600100-**NT**-50 – **Natural**

203-0600100-NT-**50** – **Bulk Tubing**

2030600100-NT-**50** – **Package Quantity** in feet (**50'**)

Fittings

- Fittings available for sizes 3mm up to 12mm

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 400°F (204°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

Colors

○ Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC
..ie HS1.3FEP24-0CC48.000

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

FEP Heat Shrinkable Tubing

Series 1.3:1 HS1.3FEP



Features

- Easier to shrink than PTFE
- Chemically inert
- Low coefficient of friction
- Superior dielectric strength
- Good heat resistance
- Self extinguishing
- Nonwetting

Certifications

- 1.3:1 - AMS-DTL-23053/11, Class 1
- ASTM D2902 Type II
- ASTM D3296-98
- FDA Compliant
- USP Class VI Compliant

Applications/Markets



- Protective Cover
- UV Light Covering
- Product Testing
- Rollers

HS1.3FEP AWG Heat Shrink Tubing (1.3:1)

| Part Number | Size (AWG) | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|-------------|------------|--------------|-----------------------|------|------------------------|------|------------------------|-------------|
| | | | inch | mm | inch | mm | inch | mm |
| HS1.3FEP24 | 24 | 23053/11-101 | .031 | 0.79 | .027 | 0.69 | .008 ± .002 | 0.20 ± 0.05 |
| HS1.3FEP22 | 22 | 23053/11-102 | .036 | 0.91 | .032 | 0.81 | .008 ± .002 | 0.20 ± 0.05 |
| HS1.3FEP20 | 20 | 23053/11-103 | .045 | 1.14 | .039 | 0.99 | .008 ± .002 | 0.20 ± 0.05 |
| HS1.3FEP18 | 18 | 23053/11-104 | .060 | 1.52 | .049 | 1.25 | .008 ± .002 | 0.20 ± 0.05 |
| HS1.3FEP16 | 16 | 23053/11-105 | .075 | 1.90 | .061 | 1.55 | .009 ± .002 | 0.23 ± 0.05 |
| HS1.3FEP14 | 14 | 23053/11-106 | .092 | 2.34 | .072 | 1.83 | .009 ± .002 | 0.23 ± 0.05 |
| HS1.3FEP12 | 12 | 23053/11-107 | .115 | 2.92 | .089 | 2.26 | .009 ± .002 | 0.23 ± 0.05 |
| HS1.3FEP10 | 10 | 23053/11-108 | .141 | 3.58 | .114 | 2.90 | .010 ± .003 | 0.25 ± 0.08 |
| HS1.3FEP09 | 9 | 23053/11-109 | .158 | 4.01 | .124 | 3.15 | .010 ± .003 | 0.25 ± 0.08 |
| HS1.3FEP08 | 8 | 23053/11-110 | .180 | 4.57 | .143 | 3.63 | .010 ± .003 | 0.25 ± 0.08 |
| HS1.3FEP07 | 7 | 23053/11-111 | .197 | 5.00 | .158 | 4.01 | .011 ± .004 | 0.28 ± 0.10 |
| HS1.3FEP06 | 6 | 23053/11-112 | .225 | 5.72 | .180 | 4.57 | .011 ± .004 | 0.28 ± 0.10 |
| HS1.3FEP05 | 5 | 23053/11-113 | .248 | 6.30 | .198 | 5.03 | .011 ± .004 | 0.28 ± 0.10 |
| HS1.3FEP04 | 4 | 23053/11-114 | .290 | 7.37 | .226 | 5.74 | .011 ± .004 | 0.28 ± 0.10 |
| HS1.3FEP03 | 3 | 23053/11-115 | .310 | 7.87 | .249 | 6.32 | .011 ± .003 | 0.28 ± 0.08 |
| HS1.3FEP02 | 2 | 23053/11-116 | .365 | 9.27 | .280 | 7.11 | .012 ± .004 | 0.31 ± 0.10 |
| HS1.3FEP01 | 1 | 23053/11-117 | .400 | 10.2 | .311 | 7.90 | .012 ± .004 | 0.31 ± 0.10 |
| HS1.3FEP00 | 0 | 23053/11-118 | .440 | 11.2 | .349 | 8.86 | .012 ± .004 | 0.31 ± 0.10 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Order Information

Example: HS1.3FEP24-0CC48.000

HS1.3FEP24-0CC48.000 – Heat Shrink

HS1.3FEP24-0CC48.000 – Shrink Ratio (1.3:1)

HS1.3FEP24-0CC48.000 – FEP

HS1.3FEP24-0CC48.000 – Heat Shrink Size in AWG (AWG 24) (For inch size use inch (3/8"))

HS1.3FEP24-0CC48.000 – Black

HS1.3FEP24-0CC48.000 – Package Quantity in feet (48')

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

HS1.3FEP Fractional Heat Shrink Tubing (1.3:1)

| Part Number | Size (inch) | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|--------------|-------------|--------------|-----------------------|------|------------------------|------|------------------------|-------------|
| | | | inch | mm | inch | mm | inch | mm |
| HS1.3FEP3/8 | 3/8 | 23053/11-119 | .500 | 12.7 | .383 | 9.73 | .015 ± .004 | 0.38 ± 0.10 |
| HS1.3FEP7/16 | 7/16 | 23053/11-120 | .580 | 14.7 | .448 | 11.4 | .020 ± .004 | 0.51 ± 0.10 |
| HS1.3FEP1/2 | 1/2 | 23053/11-121 | .666 | 16.9 | .510 | 13.0 | .020 ± .004 | 0.51 ± 0.10 |
| HS1.3FEP5/8 | 5/8 | 23053/11-122 | .830 | 21.1 | .637 | 16.2 | .025 ± .004 | 0.64 ± 0.10 |
| HS1.3FEP3/4 | 3/4 | 23053/11-123 | 1.000 | 25.4 | .764 | 19.4 | .030 ± .004 | 0.76 ± 0.10 |
| HS1.3FEP7/8 | 7/8 | 23053/11-124 | 1.170 | 29.7 | .891 | 22.6 | .035 ± .004 | 0.89 ± 0.10 |
| HS1.3FEP1.00 | 1 | 23053/11-126 | 1.330 | 33.8 | 1.020 | 25.9 | .035 ± .004 | 0.89 ± 0.10 |
| HS1.3FEP1.13 | 1-1/8 | 23053/11-133 | 1.500 | 38.1 | 1.145 | 29.1 | .035 ± .004 | 0.89 ± 0.10 |
| HS1.3FEP1.25 | 1-1/4 | 23053/11-134 | 1.666 | 42.3 | 1.270 | 32.3 | .035 ± .004 | 0.89 ± 0.10 |
| HS1.3FEP1.38 | 1-3/8 | 23053/11-135 | 1.833 | 46.6 | 1.390 | 35.3 | .035 ± .004 | 0.89 ± 0.10 |
| HS1.3FEP1.50 | 1-1/2 | 23053/11-136 | 2.000 | 50.8 | 1.520 | 38.6 | .035 ± .004 | 0.89 ± 0.10 |

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 400°F (204°C)
- Shrink Temperature
1" Dia. and below - 410°F/210°C
Over 1" Dia. - 430°F/221°C
- *Dielectric Strength: ≥ 2,000 V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

Colors

○ Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

FEP Heat Shrinkable Tubing

Series 1.67:1 HS1.6FEP



Features

- Easier to shrink than PTFE
- Chemically inert
- Low coefficient of friction
- Superior dielectric strength
- Good heat resistance
- Self extinguishing
- Nonwetting

Certifications

- 1.67:1 - AMS-DTL-23053/11, Class 2
- ASTM D3296-98
- FDA Compliant
- USP Class VI Compliant

Applications/Markets



- Protective Cover
- UV Light Covering
- Product Testing
- Rollers

HS1.6FEP Fractional Heat Shrink Tubing (1.67:1)

| Part Number | Size | Mil Spec* | Minimum Expanded I.D. | | Maximum Recovered I.D. | | Nominal Recovered Wall | |
|--------------|-------|--------------|-----------------------|------|------------------------|------|------------------------|-------------|
| | | | inch | mm | inch | mm | inch | mm |
| HS1.6FEP3/32 | 3/32 | 23053/11-201 | .093 | 2.36 | .056 | 1.42 | .008 ± .003 | 0.20 ± 0.08 |
| HS1.6FEP1/8 | 1/8 | 23053/11-202 | .125 | 3.18 | .075 | 1.90 | .010 ± .003 | 0.25 ± 0.08 |
| HS1.6FEP3/16 | 3/16 | 23053/11-203 | .188 | 4.78 | .115 | 2.92 | .010 ± .003 | 0.25 ± 0.08 |
| HS1.6FEP1/4 | 1/4 | 23053/11-204 | .250 | 6.35 | .150 | 3.81 | .010 ± .003 | 0.25 ± 0.08 |
| HS1.6FEP3/8 | 3/8 | 23053/11-205 | .375 | 9.52 | .225 | 5.72 | .012 ± .003 | 0.31 ± 0.08 |
| HS1.6FEP1/2 | 1/2 | 23053/11-206 | .500 | 12.7 | .300 | 7.62 | .015 ± .004 | 0.38 ± 0.10 |
| HS1.6FEP3/4 | 3/4 | 23053/11-207 | .750 | 19.1 | .450 | 11.4 | .020 ± .004 | 0.51 ± 0.10 |
| HS1.6FEP1.00 | 1 | 23053/11-208 | 1.000 | 25.4 | .600 | 15.2 | .025 ± .005 | 0.64 ± 0.13 |
| HS1.6FEP1.25 | 1-1/2 | 23053/11-209 | 1.500 | 38.1 | .900 | 22.9 | .030 ± .005 | 0.76 ± 0.13 |
| HS1.6FEP1.50 | 2 | 23053/11-210 | 2.000 | 50.8 | 1.200 | 30.5 | .030 ± .005 | 0.76 ± 0.13 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Order Information

Example: HS1.6FEP3/32-NC48.000

HS1.6FEP3/32-NC48.000 – **Heat Shrink**

HS1.6FEP3/32-NC48.000 – **Shrink Ratio (1.67:1)**

HS1.6FEP3/32-NC48.000 – **FEP**

HS1.6FEP3/32-NC48.000 – **Heat Shrink Size** in inches (**3/32"**)

HS1.6FEP3/32-NC48.000 – **Natural**

HS1.6FEP3/32-NC48.000 – **Cut Tubing**

HS1.6FEP3/32-NC48.000 – **Package Quantity** in feet (**48'**)

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 400°F (204°C)
- Shrink Temperature
1" Dia. and below - 410°F/210°C
Over 1" Dia. - 430°F/221°C
- *Dielectric Strength: $\geq 2,000$ V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

Colors

○ Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC
..ie HS1.3FEP24-0CC48.000

| Color Code | | |
|------------|---|---------|
| ○ | N | Natural |
| ● | 0 | Black |
| ● | 1 | Brown |
| ● | 2 | Red |
| ● | 3 | Orange |
| ● | 4 | Yellow |
| ● | 5 | Green |
| ● | 6 | Blue |
| ● | 7 | Violet |
| ● | 8 | Gray |
| ○ | 9 | White |

PFA Tubing

Series Fractional: 104 Industrial & Heavy Wall



Features

- Virgin Perfluoroalkoxy
- Translucent
- High purity resins available
- Low permeability
- Exceptional heat resistance
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Non wetting
- Non leaching

Certifications

- ASTM D 3307 Type II
- FDA Compliant
- USP Class VI Compliant

Applications/Markets



- Air Sampling
- Gas Sampling
- Fluid Transfer
- Laboratory
- Wetbench
- Flow Monitoring
- Steam Plant

104 PFA Industrial Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|--------------|-----------|-------|-----------|--------------|-----------|-------|-----------|----------------|------|---------------------------------|-----|-------------------------------|-----|
| # | | | | | | | | | | | | | | | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 104-0094031 | 3/32 | .094 | ± .005 | 2.40 | ± 0.10 | .031 | ± .002 | 0.79 | ± 0.05 | .031 | 0.79 | 680 | 47 | 3400 | 234 |
| 104-0125031 | 1/8 | .125 | ± .005 | 3.18 | ± 0.10 | .064 | ± .004 | 1.63 | ± 0.10 | .031 | 0.79 | 500 | 34 | 2500 | 172 |
| 104-0156031 | 5/32 | .157 | ± .005 | 3.99 | ± 0.13 | .094 | ± .004 | 2.39 | ± 0.08 | .031 | 0.79 | 390 | 27 | 1950 | 134 |
| 104-0188031 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .031 | 0.79 | 320 | 22 | 1600 | 110 |
| 104-0250031 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .188 | ± .005 | 4.78 | ± 0.13 | .031 | 0.79 | 230 | 16 | 1150 | 79 |
| 104-0312031 | 5/16 | .312 | ± .005 | 7.92 | ± 0.13 | .250 | ± .005 | 6.35 | ± 0.13 | .031 | 0.79 | 180 | 12 | 900 | 62 |
| 104-0375031 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .312 | ± .005 | 7.92 | ± 0.13 | .031 | 0.79 | 140 | 10 | 700 | 48 |
| 104-0438031 | 7/16 | .438 | ± .005 | 11.13 | ± 0.13 | .375 | ± .005 | 9.53 | ± 0.13 | .031 | 0.79 | 120 | 8 | 600 | 41 |
| 104-0500031 | 1/2 | .500 | ± .005 | 12.70 | ± 0.13 | .438 | ± .005 | 11.13 | ± 0.13 | .031 | 0.79 | 100 | 7 | 500 | 34 |
| 104-0563031 | 9/16 | .563 | ± .006 | 14.30 | ± 0.15 | .500 | ± .006 | 0.79 | ± 0.15 | .031 | 0.79 | 80 | 6 | 400 | 28 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Order Information

Example: 104-0188062-NT-100

104-0188062-NT-100 – PFA

104-**0188**062-NT-100 – **Tube O.D.** in inches (**3/16"**)

104-0188**062**-NT-100 – **Tube Wall Thickness** in inches (**.062"**)

104-0188062-**NT**-100 – **Natural**

104-0188062-**NT**-100 – **Bulk Tubing**

104-0188062-NT-**100** – **Package Quantity** in feet (**100'**)

Fittings

- Fittings available for sizes 3/32" up to 1"

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™






Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

Colors

- Translucent

104 PFA Heavy Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|-------------------------------------------------------------------------------------|-----------|-------|-----------|-------------------------------------------------------------------------------------|-----------|-------|-----------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|
| # | |  | | | |  | | | |  | |  | |  | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 104-0188062 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .062 | ± .005 | 1.57 | ± 0.13 | .062 | 1.57 | 680 | 47 | 3400 | 234 |
| 104-0250040 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .170 | ± .005 | 4.32 | ± 0.13 | .040 | 1.02 | 300 | 21 | 1500 | 103 |
| 104-0250047 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .156 | ± .005 | 3.96 | ± 0.13 | .047 | 1.19 | 370 | 26 | 1850 | 128 |
| 104-0250062 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .062 | 1.57 | 500 | 34 | 2500 | 172 |
| 104-0312062 | 5/16 | .312 | ± .005 | 7.92 | ± 0.13 | .188 | ± .005 | 4.78 | ± 0.13 | .062 | 1.57 | 390 | 27 | 1950 | 134 |
| 104-0375062 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .250 | ± .005 | 6.35 | ± 0.13 | .062 | 1.57 | 320 | 22 | 1600 | 110 |
| 104-0438062 | 7/16 | .438 | ± .005 | 11.13 | ± 0.13 | .312 | ± .005 | 7.92 | ± 0.13 | .062 | 1.57 | 270 | 19 | 1350 | 93 |
| 104-0500062 | 1/2 | .500 | ± .005 | 12.70 | ± 0.13 | .375 | ± .005 | 9.53 | ± 0.13 | .062 | 1.57 | 230 | 16 | 1150 | 79 |
| 104-0750062 | 3/4 | .750 | ± .006 | 19.05 | ± 0.15 | .625 | ± .006 | 15.88 | ± 0.15 | .062 | 1.57 | 140 | 10 | 700 | 48 |
| 104-1000062 | 1 | 1.000 | ± .010 | 25.40 | ± 0.25 | .875 | ± .010 | 22.22 | ± 0.25 | .062 | 1.57 | 100 | 7 | 500 | 34 |

For detailed ordering information, please consult price list or contact Parflex® Division.

PFA Tubing

Series Metric: 204



Features

- Virgin Perfluoroalkoxy
- Translucent
- High purity resins available
- Low permeability
- Exceptional heat resistance
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Non wetting
- Non leaching

Certifications

- ASTM D 3307 Type II
- FDA Compliant
- USP Class VI Compliant

Applications/Markets



- Air Sampling
- Gas Sampling
- Fluid Transfer
- Laboratory
- Wetbench
- Flow Monitoring
- Steam Plant

204 Metric PFA Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|--------------|-----------|------|-----------|--------------|-----------|------|-----------|----------------|------|---------------------------------|-----|-------------------------------|------|
| # | | | | | | | | | | | | | | | |
| | mm | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | inch | psi | bar | psi | bar |
| 204-0400100 | 4 | 4 | ± 0.11 | .157 | ± .004 | 2 | ± 0.11 | .079 | ± .004 | 1 | .039 | 34 | 500 | 172 | 2500 |
| 204-0600100 | 6 | 6 | ± 0.11 | .236 | ± .004 | 4 | ± 0.11 | .157 | ± .004 | 1 | .039 | 22 | 320 | 110 | 1600 |
| 204-0800100 | 8 | 8 | ± 0.11 | .315 | ± .004 | 6 | ± 0.11 | .236 | ± .004 | 1 | .039 | 16 | 230 | 79 | 1150 |
| 204-1000100 | 10 | 10 | ± 0.11 | .393 | ± .004 | 8 | ± 0.11 | .315 | ± .004 | 1 | .039 | 12 | 180 | 62 | 900 |
| 204-1200100 | 12 | 12 | ± 0.15 | .472 | ± .006 | 10 | ± 0.15 | .393 | ± .006 | 1 | .039 | 10 | 140 | 48 | 700 |

Order Information

Example: 204-0400100-NT-100

204-0400100-NT-100 – Metric PFA

204-**0400**100-NT-100 – **Tube O.D.** in millimeters (**4 mm**)

204-0400**100**-NT-100 – **Tube Wall Thickness** in millimeters (**1 mm**)

204-0400100-**NT**-100 – **Natural**

204-0400100-NT-**100** – **Bulk Tubing**

2040400100-NT-**100** – **Package Quantity** in feet (**100'**)

Fittings

- Fittings available for sizes 4mm up to 12mm

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

Colors

- Translucent

For detailed ordering information, please consult price list or contact Parflex® Division.

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PVDF Tubing Polyvinylidene Fluoride

Series PVDF Flex: 110



Features

- Low extractable levels
- High mechanical strength
- Good chemical resistance
- High abrasion resistance
- Exceptional thermal stability
- Low permeability
- Self extinguishing
- Weather resistant

Certifications

- ASTM D 3222
- FDA Compliant

Applications/Markets



- Applications with long cycle life
- Gas
- Food
- Thermal cycling
- Outdoor/extreme conditions
- Water systems
- Ground water monitoring
- Fluid and handling

110 PVDF Flex™ Industrial Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|--------------|-----------|-------|-----------|--------------|-----------|-------|-----------|----------------|------|---------------------------------|-----|-------------------------------|-----|
| # | | | | | | | | | | | | | | | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 110-0125031 | 1/8 | .125 | ± .005 | 3.18 | ± 0.13 | .062 | ± .005 | 1.57 | ± 0.13 | .031 | 0.79 | 950 | 65 | 4750 | 327 |
| 110-0188031 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .031 | 0.79 | 600 | 41 | 3000 | 207 |
| 110-0250031 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .188 | ± .005 | 4.78 | ± 0.13 | .031 | 0.79 | 430 | 30 | 2150 | 148 |
| 110-0375031 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .312 | ± .005 | 7.92 | ± 0.13 | .031 | 0.79 | 280 | 19 | 1400 | 97 |
| 110-0500031 | 1/2 | .500 | ± .005 | 12.70 | ± 0.13 | .438 | ± .005 | 11.13 | ± 0.13 | .031 | 0.79 | 200 | 14 | 1000 | 69 |



For detailed ordering information, please consult price list or contact Parflex® Division.

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Order Information

Example: 110-0312062-NT-100

110-0312062-NT-100 – **PVDF Flex**

110-0312062-NT-100 – **Tube O.D.** in inches (**5/16"**)

110-0312062-NT-100 – **Tube Wall Thickness** in inches (**.062"**)

110-0312062-NT-100 – **Natural**

110-0312062-NT-100 – **Bulk Tubing**

110-0312062-NT-100 – **Package Quantity** in feet (**100'**)

Fittings

- Fittings available for sizes 3/32" up to 1"

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®






Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature:
-80°F (-62°C) - 265°F (130°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request

Colors

- Off-white

110 PVDF Flex™ Heavy Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|-------------------------------------------------------------------------------------|-----------|-------|-----------|-------------------------------------------------------------------------------------|-----------|-------|-----------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|
| # | |  | | | |  | | | |  | |  | |  | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 110-0250047 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .156 | ± .005 | 3.96 | ± 0.13 | .047 | 1.19 | 650 | 45 | 3250 | 224 |
| 110-0250062 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .062 | 1.57 | 940 | 65 | 4700 | 324 |
| 110-0312062 | 5/16 | .312 | ± .005 | 7.92 | ± 0.13 | .188 | ± .005 | 4.78 | ± 0.13 | .062 | 1.57 | 740 | 51 | 3700 | 255 |
| 110-0375062 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .250 | ± .005 | 6.35 | ± 0.13 | .062 | 1.57 | 600 | 41 | 3000 | 207 |
| 110-0500062 | 1/2 | .500 | ± .005 | 12.70 | ± 0.13 | .370 | ± .005 | 9.40 | ± 0.13 | .062 | 1.57 | 440 | 30 | 2200 | 152 |
| 110-0625062 | 5/8 | .625 | ± .005 | 15.88 | ± 0.13 | .500 | ± .005 | 12.70 | ± 0.13 | .062 | 1.57 | 340 | 23 | 1700 | 117 |
| 110-0750062 | 3/4 | .750 | ± .006 | 19.05 | ± 0.15 | .625 | ± .006 | 15.88 | ± 0.15 | .062 | 1.57 | 280 | 19 | 1400 | 97 |
| 110-1000062 | 1 | 1.000 | ± .010 | 25.40 | ± 0.25 | .875 | ± .008 | 22.22 | ± 0.25 | .062 | 1.57 | 200 | 14 | 1000 | 69 |

For detailed ordering information, please consult price list or contact Parflex® Division.

PVDF Tubing Polyvinylidene Fluoride

Series PVDF Super-Flex®: 111



Features

- Low extractable levels
- High mechanical strength
- Good chemical resistance
- High abrasion resistance
- Exceptional thermal stability
- Low permeability
- Self extinguishing
- Weather resistant

Certifications

- ASTM D 3222
- FDA Compliant

Applications/Markets



- Applications with long cycle life
- Gas
- Food
- Thermal cycling
- Outdoor/extreme conditions
- Water systems
- Ground water monitoring
- Fluid and handling

111 PVDF Super-Flex® Industrial Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | Nominal I.D. | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|--------------|-----------|------|-----------|--------------|-----------|------|-----------|----------------|------|---------------------------------|-----|-------------------------------|-----|
| # | | | | | | | | | | | | | | | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar |
| 111-0188031 | 3/16 | .188 | ± .005 | 4.78 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .031 | 0.79 | 600 | 41 | 3000 | 207 |
| 111-0250031 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .188 | ± .005 | 4.78 | ± 0.13 | .031 | 0.79 | 440 | 30 | 2200 | 152 |
| 111-0375031 | 3/8 | .375 | ± .005 | 9.53 | ± 0.13 | .312 | ± .005 | 7.92 | ± 0.13 | .031 | 0.79 | 280 | 19 | 1400 | 97 |



For detailed ordering information, please consult price list or contact Parflex® Division.

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Order Information

Example: 111-0375031-NT-200

111-0375031-NT-200 – PVDF Super-Flex®

111-**0375**031-NT-200 – **Tube O.D.** in inches (**3/8"**)

111-0375**031**-NT-200 – **Tube Wall Thickness** in inches (**.031"**)

111-0375031-**NT**-200 – **Natural**

111-0375031-**NT**-200 – **Bulk Tubing**

111-0375031-NT-**200** – **Package Quantity** in feet (**200'**)

Fittings

- Fittings available for sizes 3/32" up to 1"

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®






Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email texloc@parker.com
- Working Temperature:
-80°F (-62°C) - 265°F (130°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request

Colors

- Off-white

111 PVDF Super-Flex® Industrial Wall Fractional Size Tubing

| Part Number | Order Size | Nominal O.D. | | | | | Nominal I.D. | | | | | Reference Wall | | Working Pressure at 73°F / 23°C | | Burst Pressure at 73°F / 23°C | |
|-------------|------------|-------------------------------------------------------------------------------------|-----------|------|-----------|------|-------------------------------------------------------------------------------------|------|-----------|------|------|--------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|
| # | |  | | | | |  | | | | |  | |  | |  | |
| | inch | inch | Tolerance | mm | Tolerance | inch | Tolerance | mm | Tolerance | inch | mm | psi | bar | psi | bar | psi | bar |
| 111-0250062 | 1/4 | .250 | ± .005 | 6.35 | ± 0.13 | .125 | ± .005 | 3.18 | ± 0.13 | .062 | 1.57 | 950 | 65 | 4750 | 327 | | |
| 111-0375062 | 3/8 | .375 | ± .005 | 9.52 | ± 0.13 | .250 | ± .005 | 6.35 | ± 0.13 | .062 | 1.57 | 600 | 41 | 3000 | 207 | | |
| 111-0500062 | 1/2 | .500 | ± .005 | 12.7 | ± 0.13 | .375 | ± .005 | 9.52 | ± 0.13 | .062 | 1.57 | 440 | 30 | 2200 | 152 | | |

For detailed ordering information, please consult price list or contact Parflex® Division.

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For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | [**parker.com/pfd**](http://parker.com/pfd)

Coiled Air Hose and Fittings



Fast-Stor®

NoMar™ Fast-Stor®

Ultra-Lite Superbraid



Table of Contents

Hose & Tubing

| | |
|--------------------------------------------------------------------------|-----------|
| Introduction | C-4 |
| Fast-Stor® Air Hose | C-8 : C-9 |
| Fast-Stor® Air Hose Assemblies, A0 | C-8 |
| Bulk Air Hose, FS | C-9 |
| NoMar™ Fast-Stor® Urethane Coiled Assemblies, AUFS | C-14 |
| NoMar™ Fast-Stor® High Durometer Urethane Coiled Assemblies, AHUFS | C-17 |
| NoMar™ Fast-Stor® Coils, UFS | C-16 |
| Ultra-Lite Superbraid Hose | C-20 |

Fittings

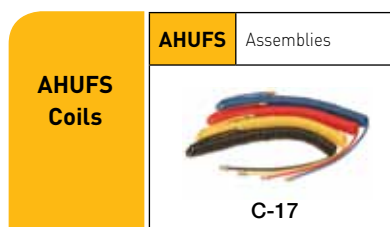
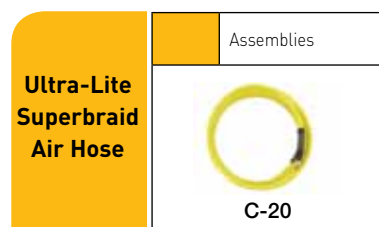
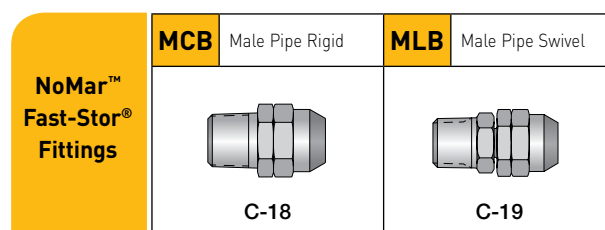
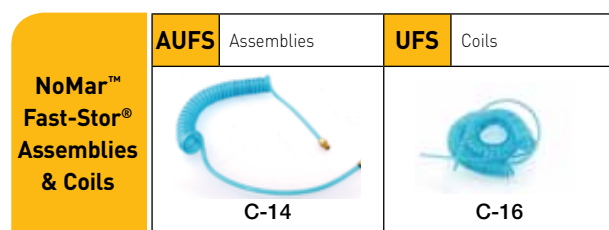
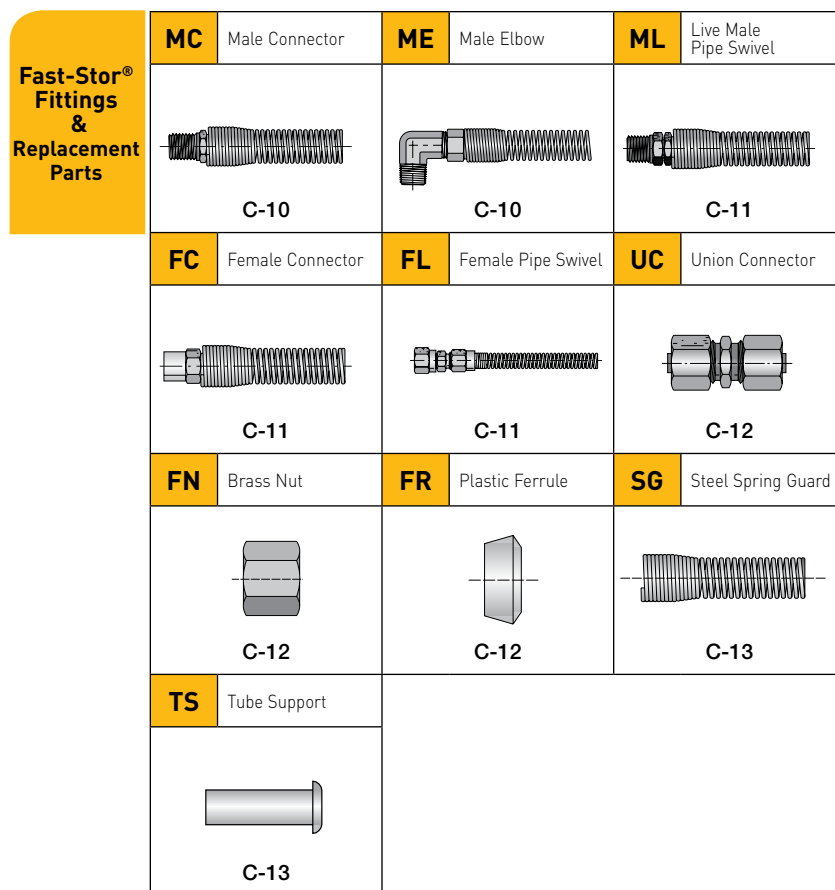
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|------------------------------------|-------------|
| Fast-Stor® Fittings | C-10 : C-12 |
| Fast-Stor® Replacement Parts | C-12 : C-13 |
| NoMar™ Fast-Stor® Fittings | C-18 |

Technical

| | |
|--------------------------------------------------------|------|
| Assembly Instructions NoMar™ Fast-Stor® Fittings | C-19 |
| Assembly Instructions Fast-Stor® Hose | C-13 |
| Measuring Fast-Stor® Bulk Hose | C-6 |
| Size Selection Procedure | C-5 |



Coiled Air Hose Visual Index



Air Hose

Every hydraulic, pneumatic and lubrication system requires some form of tube line fabrication and fitting installation for completion. Proper fabrication and installation are essential for the overall efficiency, leak free performance, and general appearance of any system.

Start by planning ahead. After sizing the tube lines and selecting the appropriate style of fitting, consider the following in the design of your system:

- Accessibility of joints
- Proper routing of lines
- Adequate tube line supports
- Available fabricating tools

Routing of Lines

Routing of lines is probably the most difficult, yet most significant, of these system design considerations. Proper routing involves getting a connecting line from one point to another through the most logical path.

Always try to leave fitting joints as accessible as possible. Hard to reach joints are hard to assemble and tighten properly. Inaccessible joints are also more difficult and time consuming to service.

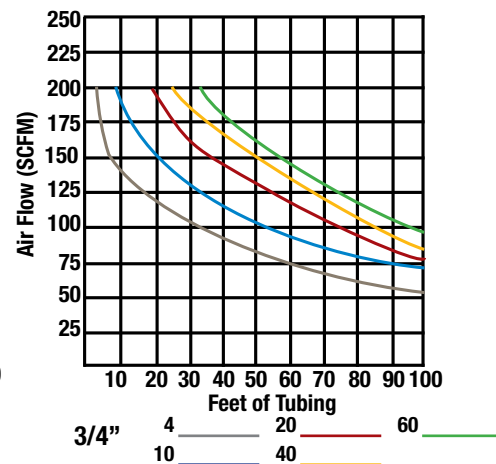
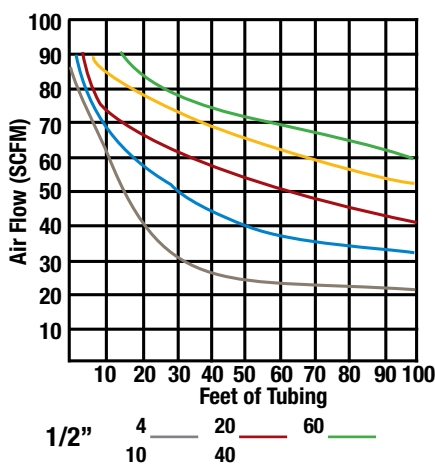
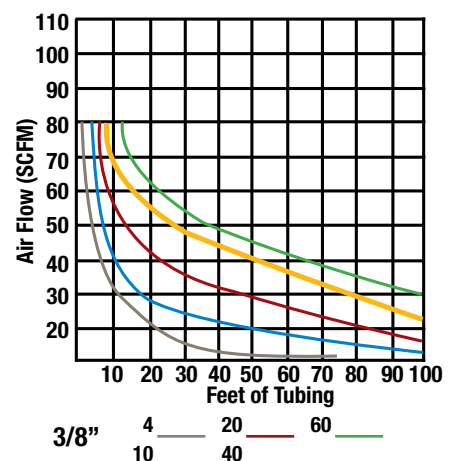
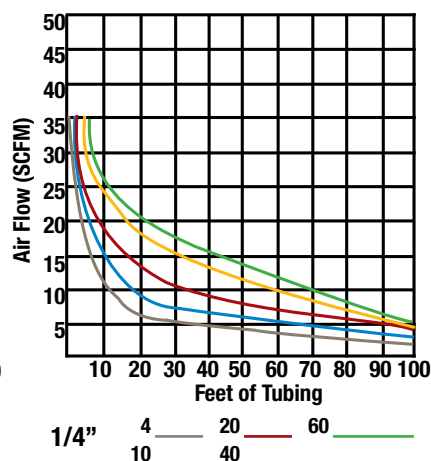
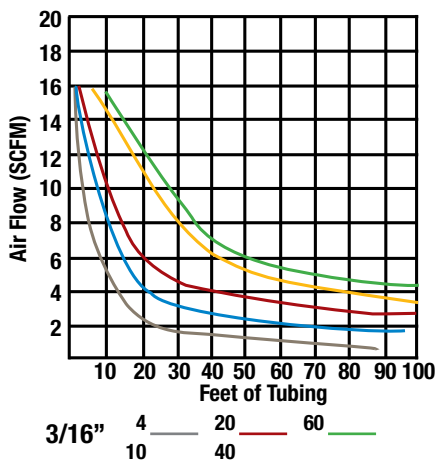


Size Selection Procedure

Proper size selection is extremely important in choosing any air hose in order to prevent “starvation” of the air tool and to ensure maximum torque and tool speed. Starved tools don’t produce!

Steps in size selection:

1. Determine air flow rate and pressure required by following air-tool manufacturers recommendations.
2. Refer to “Air Flow Characteristics” graphs, shown below. Find air flow requirement in standard cubic feet per minute (SCFM) on vertical line to left of graph. Now follow horizontal line on same graph to determine total extended length of hose required. Follow vertical line above hose length to intersection with the horizontal air flow SCFM line.
3. Note pressure drop above curve nearest to intersection of SCFM and hose length lines. Pressure drop, subtracted from line pressure, equals “available pressure” at the selected SCFM flow rate and hose length.
4. If “available pressure” is below the tool manufacturers’ recommendations, refer to chart for successively larger hose sizes until an acceptable “available pressure” is found. Choose this size Fast-Stor® Air Hose for your application.
5. Refer to “working pressure vs. temperature” chart (pg. B-7) to be sure your application falls within the working range of Fast-Stor® Air Hose.



Actual working pressure charts are located in the tubing section on the specific product page.

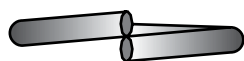
For detailed ordering information, please consult price list or contact Parflex® Division.

Measuring Fast-Stor® Bulk Hose

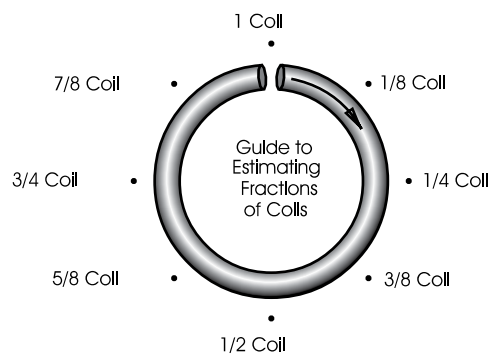
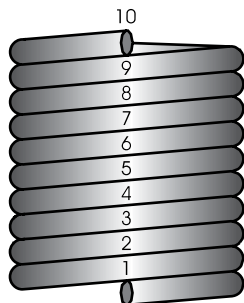
Measuring Fast-Stor® hose is quick and easy and may be accomplished by either of two accurate methods:

1. Counting

| Total Length of Hose | | | Number of Coils Needed to Obtain Required Net Extended Length +3% | | | | |
|----------------------|------|-------|-------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|
| | | | 3/16 I.D. Fast-Stor® | 1/4 I.D. Fast-Stor® | 3/8 I.D. Fast-Stor® | 1/2 I.D. Fast-Stor® | 3/4 I.D. Fast-Stor® |
| ft. | inch | mtr. | coils | coils | coils | coils | coils |
| 3 | 36 | .91 | 5-1/8 | 3-1/2 | 2-1/4 | 1-5/8 | 7/8 |
| 3 | 36 | .91 | 5-1/8 | 3-1/2 | 2-1/4 | 1-5/8 | 7/8 |
| 5 | 60 | 1.52 | 8-1/2 | 5-3/4 | 3-7/8 | 2-5/8 | 1-1/2 |
| 7 | 84 | 2.13 | 12 | 8-1/8 | 5-3/4 | 3-3/4 | 1-1/8 |
| 10 | 120 | 3.05 | 17-1/8 | 11-1/2 | 7-3/4 | 5-3/8 | 3 |
| 12 | 144 | 3.66 | 20-1/2 | 13-7/8 | 9-1/4 | 6-1/2 | 3-1/2 |
| 15 | 180 | 4.57 | 25-3/4 | 17-3/8 | 11-1/2 | 8 | 4-1/2 |
| 16 | 192 | 4.88 | 27-3/8 | 18-1/2 | 12-3/8 | 8-5/8 | 4-3/4 |
| 17 | 204 | 5.18 | 29-1/8 | 19-5/8 | 13-1/8 | 9-1/8 | 5 |
| 19 | 216 | 5.79 | 30-7/8 | 20-3/4 | 13-7/8 | 9-5/8 | 5-3/8 |
| 20 | 240 | 6.10 | 34-1/4 | 23-1/8 | 15-3/8 | 10-3/4 | 6 |
| 25 | 300 | 7.62 | 42-7/8 | 28-7/8 | 19-1/4 | 13-3/8 | 7-1/2 |
| 30 | 360 | 9.14 | 51-3/8 | 34-5/8 | 23-1/8 | 16-1/8 | 8-7/8 |
| 33 | 396 | 10.06 | 56-1/2 | 38-1/8 | 25-3/8 | 17-3/4 | 9-3/4 |
| 50 | 600 | 15.24 | 85-5/8 | 57-3/4 | 38-1/2 | 26-7/8 | 14-7/8 |



1 Full 360° Coil



For detailed ordering information, please consult price list or contact Parflex® Division.

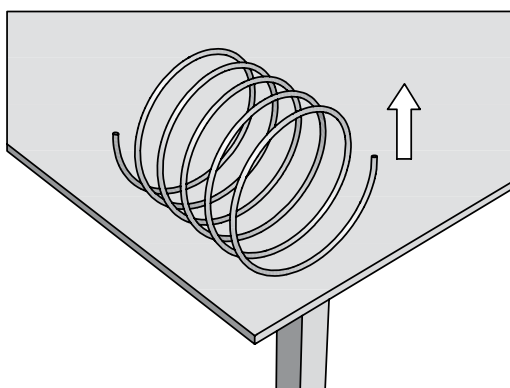
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2. Division into Even Numbers of Lengths

Bulk retracted lengths of Fast-Stor® hose are always exactly 100 feet long when shipped from the factory. Some diameter expansion of the coils may occur in shipment due to temperature and storage conditions. This may appear to have shortened a given 100 foot retracted length slightly in relation to other 100 foot retracted lengths in the same master carton. The shorter appearance should not be mistaken for any actual shortage in extended length. A bulk retracted length may be easily divided into smaller lengths by first measuring the tightly retracted length in inches, and dividing by 4 to determine the cut-off length for 25 feet, by 3 for 33 feet, by 8 for 12-1/2 feet, etc. Pieces should be tagged with their proper length before returning to storage.

Cutting Bulk Length Coils

To cut bulk length coils, position coils on work table extending away from you, cut end-up in 12 o'clock position.



For detailed ordering information, please consult price list or contact Parflex® Division.

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Fast-Stor® Air Hose



Features

- Manufactured from tough, abrasion-resistant nylon
- Excellent memory characteristics over a wide temperature range
- Long service life in rugged applications
- Desirable Safety Yellow color per U.S. Government OSHA directives
- Optimal retail packaging available*

Applications/Markets



- Blow Guns
- Construction
- Mfg. Air Drops
- Machine Tool Lubrication
- Water Hose

Fast-Stor® Assemblies

Popular Stock Assemblies

| Assembly Part Number | Hose I.D. | | Total Length | | Working Length | | Nominal Compact Length | | Coil I.D. | | Maximum Working Pressure 73°F/23°C | | Minimum Burst at 73°F/23°C | | End Fittings |
|----------------------|-----------|----|--------------|------|----------------|------|------------------------|------|-----------|-----|------------------------------------|------|----------------------------|------|--------------|
| # | | | | | | | | | | | | | | | |
| | inch | mm | ft. | mtr. | ft. | mtr. | ft. | mtr. | inch | mm | psi | MPa | psi | MPa | |
| A0312-MC4-ML4 | 3/16 | 5 | 12 | 3.7 | 9 | 2.7 | 4.8 | 1.5 | 2 | 51 | 225 | 1.55 | 680 | 4.69 | 1/4" NPT |
| A0325-MC4-ML4 | 3/16 | 5 | 25 | 7.6 | 18 | 5.5 | 9.6 | 2.9 | 2 | 51 | 225 | 1.55 | 680 | 4.69 | 1/4" NPT |
| A0350-MC4-ML4 | 3/16 | 5 | 50 | 15.2 | 38 | 11.6 | 20.2 | 6.2 | 2 | 51 | 225 | 1.55 | 680 | 4.69 | 1/4" NPT |
| A0412-MC4-ML4* | 1/4 | 6 | 12 | 3.7 | 9 | 2.7 | 4.3 | 1.3 | 3 | 76 | 225 | 1.55 | 680 | 4.69 | 1/4" NPT |
| A0425-MC4-ML4* | 1/4 | 6 | 25 | 7.6 | 18 | 5.5 | 8.6 | 2.6 | 3 | 76 | 225 | 1.55 | 680 | 4.69 | 1/4" NPT |
| A0450-MC4-ML4 | 1/4 | 6 | 50 | 15.2 | 38 | 11.6 | 18.1 | 5.5 | 3 | 76 | 225 | 1.55 | 680 | 4.69 | 1/4" NPT |
| A0612-MC6-ML6* | 3/8 | 10 | 12 | 3.7 | 9 | 2.7 | 4.3 | 1.3 | 4.5 | 114 | 225 | 1.55 | 680 | 4.69 | 3/8" NPT |
| A0625-MC6-ML6 | 3/8 | 10 | 25 | 7.6 | 18 | 5.5 | 8.5 | 2.6 | 4.5 | 114 | 225 | 1.55 | 680 | 4.69 | 3/8" NPT |
| A0650-MC6-ML6 | 3/8 | 10 | 50 | 15.2 | 38 | 11.6 | 17.9 | 5.5 | 4.5 | 114 | 225 | 1.55 | 680 | 4.69 | 3/8" NPT |
| A0812-MC8-ML8 | 1/2 | 13 | 12 | 3.7 | 9 | 2.7 | 4.3 | 1.3 | 6.5 | 165 | 225 | 1.55 | 680 | 4.69 | 1/2" NPT |
| A0825-MC8-ML8 | 1/2 | 13 | 25 | 7.6 | 18 | 5.5 | 8.5 | 2.6 | 6.5 | 165 | 225 | 1.55 | 680 | 4.69 | 1/2" NPT |
| A0850-MC8-ML8 | 1/2 | 13 | 50 | 15.2 | 38 | 11.6 | 16.8 | 5.1 | 6.5 | 165 | 225 | 1.55 | 680 | 4.69 | 1/2" NPT |

Construction

Tube: Yellow PFX Nylon
 Spring Guard: Steel
 Fittings: Brass

Notes

*Retail packaging available - Add "R" suffix when ordering

Operating Parameters

Service temperature range: -40°F to +200°F
 (-40°C to +93°C)

Maximum working pressure based on safety factor of 3:1 over burst



For detailed ordering information, please consult price list or contact Parflex® Division.

Fast-Stor® Bulk Air Hose



| Assembly Part Number | Hose I.D. | | Average Wall Thickness | | Coil I.D. | | Coil O.D. | | Total Length | | Working Length | | Master Carton Quantity | | Maximum Working Pressure 73°F/23°C | | Minimum Burst at 73°F/23°C | |
|----------------------|-----------|----|------------------------|-----|-----------|-----|-----------|-----|--------------|------|----------------|------|------------------------|------|------------------------------------|-----|----------------------------|-----|
| # | | | | | | | | | | | | | | | | | | |
| Black | inch | mm | inch | mm | inch | mm | inch | mm | ft. | mtr. | ft. | mtr. | ft. | mtr. | psi | MPa | psi | MPa |
| FS-03-100 | 3/16 | 5 | .023 | .58 | 2 | 51 | 2.5 | 64 | 100 | 30.5 | 75 | 22.9 | 600 | 183 | 225 | 160 | 680 | 469 |
| FS-04-100 | 1/4 | 6 | .030 | .76 | 3 | 76 | 3.7 | 94 | 100 | 30.5 | 75 | 22.9 | 600 | 183 | 225 | 160 | 680 | 469 |
| FS-06-100 | 3/8 | 10 | .045 | 1.1 | 4.5 | 114 | 5.5 | 140 | 100 | 30.5 | 75 | 22.9 | 400 | 122 | 225 | 160 | 680 | 469 |
| FS-08-100 | 1/2 | 13 | .062 | 1.6 | 6.5 | 165 | 7.8 | 198 | 100 | 30.5 | 75 | 22.9 | 400 | 122 | 225 | 160 | 680 | 469 |
| FS-12-100 | 3/4 | 19 | .075 | 1.9 | 11 | 305 | 13.0 | 330 | 100 | 30.5 | 75 | 22.9 | 100 | 30 | 200 | 140 | 600 | 414 |

Construction

Tube: Yellow PFX Nylon

Operating Parameters

Service temperature range: -40°F to +200°F (-40°C to +93°C)

Maximum working pressure based on safety factor of 3:1 over burst

Order Information

Example: A0412-MC4-ML4

A0412-MC4-ML4 – Assembly

A0412-MC4-ML4 – Tube ID (1/4")

A0412-MC4-ML4 – Total Length (12')

A0412-MC4-ML4 – End 1 Fitting Size & Type
(1/4" Male NPT)

A0412-MC4-ML4 – End 2 Fitting Size & Type
(1/4" Male NPT, Swivel)



For detailed ordering information, please consult price list or contact Parflex® Division.

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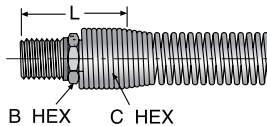


Fast-Stor® Fittings

Fittings for Fast-Stor® hose are constructed from heavy duty brass with built in insert-supports. Fitting bodies are SAE Standard sizes. Hose entry length into the fittings is the longest in the industry due to Parflex's SAE body design and size standardization, assuring a strong grip on the hose.

All fitting part numbers include body, nut, ferrule and spring guard. For body only, use Prefix B.

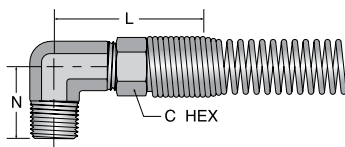
MC – Male Connector



| Part Number | Thread Size | Hose I.D. | | L | | B Hex | | C Hex | |
|-------------|-------------|-----------|----|---------|----|-------|----|-------|----|
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| # | | | | | | | | | |
| MC-03-2 | 1/8 | 3/16 | 5 | 1-3/8 | 35 | 9/16 | 14 | 1/2 | 13 |
| MC-03-4 | 1/4 | 3/16 | 5 | 1-9/16 | 40 | 9/16 | 14 | 1/2 | 13 |
| MC-04-2 | 1/8 | 1/4 | 6 | 1-3/8 | 35 | 9/16 | 14 | 9/16 | 14 |
| MC-04-4 | 1/4 | 1/4 | 6 | 1-9/16 | 40 | 9/16 | 14 | 9/16 | 14 |
| MC-06-6 | 3/8 | 3/8 | 10 | 1-13/16 | 46 | 11/16 | 17 | 13/16 | 21 |
| MC-08-6 | 3/8 | 1/2 | 13 | 2-1/8 | 54 | 7/8 | 22 | 15/16 | 24 |
| MC-08-8 | 1/2 | 1/2 | 13 | 2-1/8 | 54 | 7/8 | 22 | 15/16 | 24 |
| *MC-12-12 | 3/4 | 3/4 | 19 | 2-1/4 | 57 | 1-1/4 | 32 | 1-3/8 | 35 |

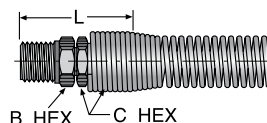
*No spring guard required.

ME – Male 90° Elbow



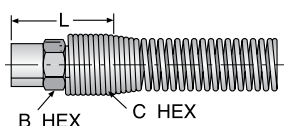
| Part Number | Thread Size | Hose I.D. | | L | | N | | C Hex | |
|-------------|-------------|-----------|----|---------|----|-------|----|-------|----|
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| # | | | | | | | | | |
| ME-03-4 | 1/4 | 3/16 | 5 | 1-1/4 | 32 | 15/16 | 24 | 9/16 | 14 |
| ME-04-4 | 1/4 | 1/4 | 6 | 1-13/16 | 46 | 15/16 | 24 | 9/16 | 14 |
| ME-06-6 | 3/8 | 3/8 | 10 | 1-9/16 | 40 | 1-1/8 | 29 | 13/16 | 21 |
| ME-08-8 | 1/2 | 1/2 | 13 | 1-3/4 | 44 | 1-3/8 | 35 | 15/16 | 24 |

ML – Live Male Pipe Swivel



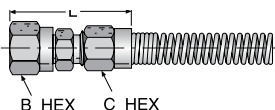
| Part Number | Thread Size | Hose I.D. | | L | | B Hex | | C Hex | |
|-------------|-------------|-----------|----|--------|----|-------|----|-------|----|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| ML-03-4 | 1/4 | 3/16 | 5 | 1-1/16 | 27 | 9/16 | 14 | 1/2 | 13 |
| ML-04-4 | 1/4 | 1/4 | 6 | 1-9/16 | 40 | 9/16 | 14 | 9/16 | 14 |
| ML-06-6 | 3/8 | 3/8 | 10 | 1-7/8 | 47 | 3/4 | 19 | 13/16 | 21 |
| ML-08-8 | 1/2 | 1/2 | 13 | 2-3/8 | 60 | 7/8 | 22 | 15/16 | 24 |

FC – Female Connector FPT



| Part Number | Thread Size | Hose I.D. | | L | | B Hex | | C Hex | |
|-------------|-------------|-----------|----|--------|----|-------|----|-------|----|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| FC-04-4 | 1/4 | 1/4 | 6 | 1-9/16 | 40 | 11/16 | 17 | 9/16 | 14 |
| FC-06-6 | 3/8 | 3/8 | 10 | 1-3/4 | 44 | 13/16 | 21 | 13/16 | 21 |

FL – Female Pipe Swivel*



| Part Number | Thread Size | Hose I.D. | | L | | B Hex | | C Hex | | Box Quantity |
|-------------|-------------|-----------|----|-------|----|-------|----|-------|----|--------------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | |
| FL-04-4 | 1/4 | 1/4 | 6 | 1-3/4 | 44 | 5/8 | 16 | 9/16 | 14 | 20 |
| FL-06-6 | 3/8 | 3/8 | 10 | 2-1/8 | 54 | 3/4 | 19 | 9/16 | 14 | 10 |

For detailed ordering information, please consult price list or contact Parflex® Division.

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C-11

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

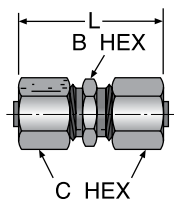
E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Fast-Stor® Union Connector

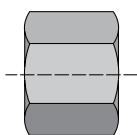
UC – Union Connector



| Part Number | Thread Size | Hose I.D. | | L | | B Hex | | C Hex | |
|-------------|----------------|-----------|----|-------|----|-------|----|-------|----|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| UC-04-4 | 1/4 x 1/4 I.D. | 1/4 | 6 | 1-7/8 | 48 | 1/2 | 13 | 9/16 | 14 |
| UC-06-6 | 3/8 x 3/8 I.D. | 3/8 | 10 | 2-5/8 | 67 | 11/16 | 17 | 13/16 | 21 |

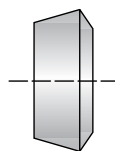
Fast-Stor® Replacement Parts

FN – Brass Nut



| Part Number | Hose I.D. | |
|-------------|-----------|----|
| # | | |
| | inch | mm |
| FN-03 | 3/16 | 5 |
| FN-04 | 1/4 | 6 |
| FN-06 | 3/8 | 10 |
| FN-08 | 1/2 | 13 |
| FN-12 | 3/4 | 19 |

FR – Plastic Ferrule



| Part Number | Hose I.D. | |
|-------------|-----------|----|
| # | | |
| | inch | mm |
| FR-03 | 3/16 | 5 |
| FR-04 | 1/4 | 6 |
| FR-06 | 3/8 | 10 |
| FR-08 | 1/2 | 13 |
| FR-12* | 3/4 | 19 |

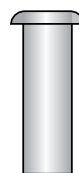
* Brass.

SG – Steel Spring Guard



| Part Number | Hose I.D. | |
|-------------|-----------|----|
| # | ⊙ | |
| | inch | mm |
| SG-03 | 3/16 | 5 |
| SG-04 | 1/4 | 6 |
| SG-06 | 3/8 | 10 |
| SG-08 | 1/2 | 13 |

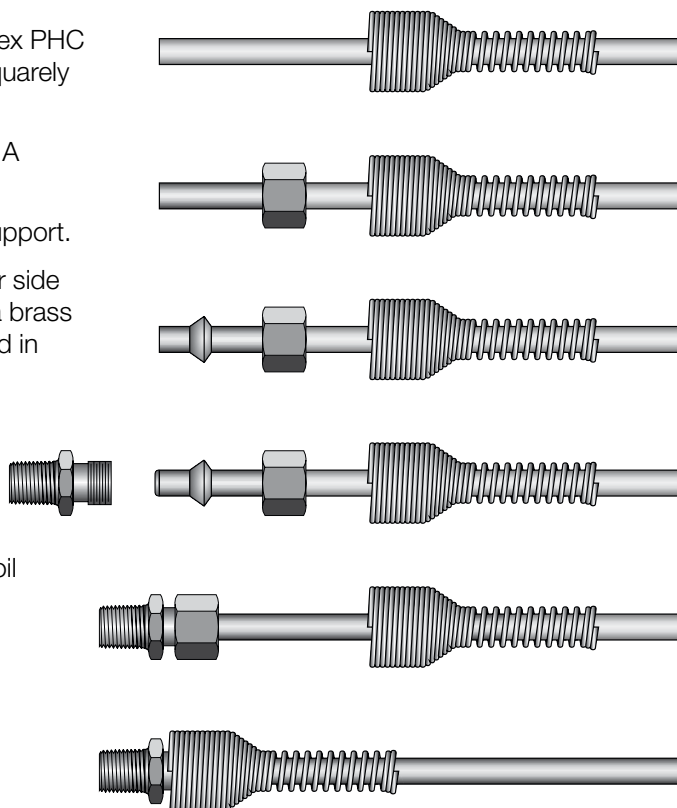
TS – Tube Support



| Part Number | Hose I.D. | |
|-------------|-----------|----|
| # | ⊙ | |
| | inch | mm |
| TS-03 | 3/16 | 5 |
| TS-04 | 1/4 | 6 |
| TS-06 | 3/8 | 10 |
| TS-08 | 1/2 | 13 |
| TS-12 | 3/4 | 19 |

How to Assemble Fast-Stor® Hose

1. Using a Parker Model 316 cutoff tool, Parflex PHC hand cutter or other sharp cutter, cut hose squarely to correct length.
2. Install SG spring guard on hose as shown. A guard is not required on size -12 hose.
3. Slide FN nut on hose and insert TS tube support.
4. Slide FR plastic ferrule over hose with taper side toward cut end of hose. Size -12 hose uses a brass ferrule and requires the hose end to be dipped in clean water for lubrication.
5. Push hose into fitting body until bottomed. Slide nut and ferrule up to fitting body and tighten nut by hand. With a wrench, tighten the nut additional 2 to 2-1/2 turns.
6. Slide spring guard over nut until the lead coil snaps between the nut and fitting body hex.



Parflex NoMar™ Fast-Stor® Assemblies AUFS



Features

- Manufactured from durable, abrasion-resistant Polyurethane
- Excellent memory characteristics over a wide temperature range
- Field-attachable fittings
- Available in bulk or factory-made assemblies

Applications/Markets



- Auto Repair
- Blow Guns
- Construction
- Carpentry
- Furniture Manufacturing
- Mfg. Air Drops
- Marine
- Water Hose






Urethane Fast-Stor® Assemblies

Includes live male end and rigid male end

| Assembly Part Number | Hose O.D. | | Hose I.D. | | Total Length | | Nominal Compact Length | | Nominal Coil I.D. | | Maximum Working Pressure 73°F/23°C | | Minimum Burst at 73°F/23°C | | End Fittings |
|----------------------|-----------|----|-----------|----|--------------|------|------------------------|-----|-------------------|----|------------------------------------|------|----------------------------|------|--------------|
| # | | | | | | | | | | | | | | | |
| | inch | mm | inch | mm | ft. | mtr. | inch | mm | inch | mm | psi | MPa | psi | MPa | |
| AUFS-32-TBLU-010** | 3/16 | 5 | 1/8 | 3 | 10 | 3.0 | 6.6 | 167 | 3/4 | 19 | 135 | .93 | 405 | 2.79 | 1/8" NPT |
| AUFS-32-TBLU-025** | 3/16 | 5 | 1/8 | 3 | 25 | 7.6 | 19 | 482 | 3/4 | 19 | 135 | .93 | 405 | 2.79 | 1/8" NPT |
| AUFS-42-TBLU-010 | 1/4 | 6 | 1/8 | 3 | 10 | 3.0 | 8.3 | 210 | 3/4 | 19 | 175 | 1.21 | 525 | 3.62 | 1/4" NPT |
| AUFS-42-TBLU-025 | 1/4 | 6 | 1/8 | 3 | 25 | 7.6 | 23.9 | 607 | 3/4 | 19 | 175 | 1.21 | 525 | 3.62 | 1/4" NPT |
| AUFS-64-TBLU-010* | 3/8 | 10 | 1/4 | 6 | 10 | 3.0 | 5.6 | 142 | 1-3/4 | 44 | 180 | 1.24 | 540 | 3.72 | 1/4" NPT |
| AUFS-64-TBLU-015* | 3/8 | 10 | 1/4 | 6 | 15 | 4.6 | 9.3 | 236 | 1-3/4 | 44 | 180 | 1.24 | 540 | 3.72 | 1/4" NPT |
| AUFS-64-TBLU-020 | 3/8 | 10 | 1/4 | 6 | 20 | 6.1 | 13 | 330 | 1-3/4 | 44 | 180 | 1.24 | 540 | 3.72 | 1/4" NPT |
| AUFS-64-TBLU-025* | 3/8 | 10 | 1/4 | 6 | 25 | 7.6 | 16 | 406 | 1-3/4 | 44 | 180 | 1.24 | 540 | 3.72 | 1/4" NPT |
| AUFS-85-TBLU-010 | 1/2 | 13 | 21/64 | 8 | 10 | 3.0 | 5.5 | 140 | 2-1/2 | 64 | 150 | 1.03 | 450 | 3.10 | 3/8" NPT |
| AUFS-85-TBLU-015 | 1/2 | 13 | 21/64 | 8 | 15 | 4.6 | 9 | 229 | 2-1/2 | 64 | 150 | 1.03 | 450 | 3.10 | 3/8" NPT |
| AUFS-85-TBLU-020 | 1/2 | 13 | 21/64 | 8 | 20 | 6.1 | 12.5 | 317 | 2-1/2 | 64 | 150 | 1.03 | 450 | 3.10 | 3/8" NPT |
| AUFS-85-TBLU-025 | 1/2 | 13 | 21/64 | 8 | 25 | 7.6 | 16 | 406 | 2-1/2 | 64 | 150 | 1.03 | 450 | 3.10 | 3/8" NPT |
| AUFS-86-TBLU-010 | 1/2 | 13 | 3/8 | 10 | 10 | 3.0 | 5.5 | 140 | 2-1/2 | 64 | 110 | .76 | 330 | 2.28 | 3/8" NPT |
| AUFS-86-TBLU-020 | 1/2 | 13 | 3/8 | 10 | 20 | 6.1 | 12.5 | 317 | 2-1/2 | 64 | 110 | .76 | 330 | 2.28 | 3/8" NPT |
| AUFS-96-TBLU-010 | 9/16 | 14 | 3/8 | 10 | 10 | 3.0 | 6.1 | 155 | 2-1/2 | 64 | 140 | .97 | 420 | 2.90 | 3/8" NPT |
| AUFS-96-TBLU-015 | 9/16 | 14 | 3/8 | 10 | 15 | 4.6 | 9.9 | 251 | 2-1/2 | 64 | 140 | .97 | 420 | 2.90 | 3/8" NPT |
| AUFS-96-TBLU-020 | 9/16 | 14 | 3/8 | 10 | 20 | 6.1 | 13.7 | 348 | 2-1/2 | 64 | 140 | .97 | 420 | 2.90 | 3/8" NPT |
| AUFS-96-TBLU-025 | 9/16 | 14 | 3/8 | 10 | 25 | 7.6 | 17.5 | 444 | 2-1/2 | 64 | 140 | .97 | 420 | 2.90 | 3/8" NPT |



For detailed ordering information, please consult price list or contact Parflex® Division.

| Assembly Part Number | Hose O.D. | | Hose I.D. | | Total Length | | Nominal Compact Length | | Nominal Coil I.D. | | Maximum Working Pressure 73°F/23°C | | Minimum Burst at 73°F/23°C | | End Fittings |
|----------------------|-----------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------|----|--------------|------|------------------------|-----|-----------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|------|--------------|
| # |  | |  | | | | | |  | |  | |  | | |
| | inch | mm | inch | mm | ft. | mtr. | inch | mm | inch | mm | psi | MPa | psi | MPa | |
| AUFS-128-TBLU-010 | 3/4 | 19 | 1/2 | 13 | 10 | 3.0 | 7.5 | 190 | 3 | 76 | 125 | .86 | 375 | 2.59 | 1/2" NPT |
| AUFS-128-TBLU-015 | 3/4 | 19 | 1/2 | 13 | 15 | 4.6 | 11.2 | 284 | 3 | 76 | 125 | .86 | 375 | 2.59 | 1/2" NPT |
| AUFS-128-TBLU-020 | 3/4 | 19 | 1/2 | 13 | 20 | 6.1 | 15 | 381 | 3 | 76 | 125 | .86 | 375 | 2.59 | 1/2" NPT |
| AUFS-128-TBLU-025 | 3/4 | 19 | 1/2 | 13 | 25 | 7.6 | 19.5 | 495 | 3 | 76 | 125 | .86 | 375 | 2.59 | 1/2" NPT |

Construction

Tube: Transparent Blue Polyurethane

Fittings: Brass

Operating Parameters

Service temperature range: -40°F to +180°F (-40°C to +82°C)

Notes


Pigtail Lengths – 16" swivel end, 8" rigid end

*Retail packaging available - Add "R" suffix when ordering

**Size -32 comes standard with two rigid ends

Other sizes available upon request

Colors

| Color Code | | |
|-----------------------------------------------------------------------------------|------|------------------|
|  | TBLU | Transparent Blue |

Other colors available upon request - consult factory

Order Information

Example: AUFS-64-TBLU-025

AUFS-64-TBLU-025 – Assembled Urethane Fast-Stor

AUFS-**64**-TBLU-025 – Tube OD (3/8")

AUFS-64-**TBLU**-025 – Tube ID (1/4")

AUFS-64-**TBLU**-025 – Color (Transparent Blue)

AUFS-64-TBLU-**025** – Total Length (25")

Parflex NoMar™ Fast-Stor® Coiled Tubing UFS



Features

- Manufactured from durable, abrasion-resistant Polyurethane
- Excellent memory characteristics over a wide temperature range
- Long service life in rugged applications

Applications/Markets



- Auto Repair
- Blow Guns
- Construction
- Carpentry
- Furniture Manufacturing
- Mfg. Air Drops
- Marine
- Water Hose

| Assembly Part Number | Hose O.D. | | Hose I.D. | | Working Length | Nominal Coil I.D. | | Maximum Working Pressure 73°F/23°C | | Minimum Burst at 73°F/23°C | |
|----------------------|-----------|----|-----------|----|--------------------|-------------------|----|------------------------------------|------|----------------------------|------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | feet | inch | mm | psi | MPa | psi | MPa |
| UFS-32-TBLU-xxx | 3/16 | 5 | 1/8 | 3 | 010, 025 | 3/4 | 19 | 135 | .93 | 405 | 2.79 |
| UFS-42-TBLU-xxx | 1/4 | 6 | 1/8 | 3 | 010, 025 | 3/4 | 19 | 175 | 1.21 | 525 | 3.62 |
| UFS-64-TBLU-xxx | 3/8 | 10 | 1/4 | 6 | 010, 015, 020, 025 | 1-3/4 | 44 | 180 | 1.24 | 540 | 3.72 |
| UFS-85-TBLU-xxx | 1/2 | 13 | 21/64 | 8 | 010, 015, 020, 025 | 2-1/2 | 64 | 150 | 1.03 | 450 | 3.10 |
| UFS-86-TBLU-xxx | 1/2 | 13 | 3/8 | 10 | 010, 020 | 2-1/2 | 64 | 110 | .76 | 330 | 2.28 |
| UFS-96-TBLU-xxx | 9/16 | 17 | 3/8 | 10 | 010, 015, 020, 025 | 2-1/2 | 64 | 140 | .97 | 420 | 2.90 |
| UFS-128-TBLU-xxx | 3/4 | 19 | 1/2 | 13 | 010, 015, 020, 025 | 3 | 76 | 125 | .86 | 375 | 2.59 |

Construction

Tube: Transparent Blue Polyurethane

Operating Parameters

Service temperature range: -40°F to +180°F (-40°C to +82°C)

Maximum working pressure based on safety factor of 3:1 over burst

Notes

xxx- Denotes Hose Length (feet)

Pigtail Lengths - 16" End #1, 8" End #2

Other sizes available upon request

Colors

| Color Code | | |
|------------|------|------------------|
| | TBLU | Transparent Blue |

Other colors available upon request - consult factory

Order Information

Example: UFS-86-TBLU-010

UFS-86-TBLU-010 – Assembled NoMar™ Fast-Stor

UFS-86-TBLU-010 – Tube OD (1/2")

UFS-86-TBLU-010 – Tube ID (3/8")

UFS-86-TBLU-010 – Color (Transparent Blue)

UFS-86-TBLU-010 – Total Length (10')



For detailed ordering information, please consult price list or contact Parflex® Division.

Parflex NoMar™ Fast-Stor® Coiled Assembly AHUFS



Features

- Manufactured from durable, abrasion-resistant 98 Durometer Polyurethane
- Excellent memory characteristics over a wide temperature range
- Long service life in rugged applications

Applications/Markets



- Auto Repair
- Blow Guns
- Construction
- Carpentry
- Furniture Manufacturing
- Mfg. Air Drops
- Marine
- Water Hose

| Assembly Part Number | Hose O.D. | | Hose I.D. | | Working Length | | Nominal Compact Length | | Coil I.D. | | Maximum Working Pressure 73°F/23°C | | Minimum Burst at 73°F/23°C | |
|----------------------|-----------|----|-----------|----|----------------|------|------------------------|-----|-----------|----|------------------------------------|------|----------------------------|------|
| | inch | mm | inch | mm | ft. | mtr. | inch | mm | inch | mm | psi | MPa | psi | MPa |
| # | | | | | | | | | | | | | | |
| AHUFS-6-xxx-015 | 3/8 | 10 | 1/4 | 6 | 15 | 4.6 | 13 | 330 | 1-1/4 | 32 | 180 | 1.24 | 540 | 3.72 |
| AHUFS-6-xxx-025 | 3/8 | 10 | 1/4 | 6 | 25 | 6.7 | 22 | 559 | 1-1/4 | 32 | 180 | 1.24 | 540 | 3.72 |

Construction

Tube: 98 Durometer Polyurethane
Fitting: Brass

Operating Parameters

Service temperature range: -40°F to +180°F (-40°C to +82°C)

Maximum working pressure based on safety factor of 3:1 over burst.

Notes

xxx- Denotes Color

Retail packaging available - Add "R" suffix when ordering

Pigtail Lengths - 16" End #1, 8" End #2

Other sizes available upon request

Colors

| Color Code | | |
|------------|-----|--------|
| | BLK | Black |
| | BLU | Blue |
| | RED | Red |
| | YEL | Yellow |

Other colors available upon request - consult factory

Order Information

Example: AHUFS-6-BLK-015

AHUFS-6-BLK-015 – Assembled High Durometer Urethane Fast-Stor

AHUFS-6-BLK-015 – **Tube OD (3/8")**

AHUFS-6-**BLK**-015 – **Color (Black)**

AHUFS-6-BLK-**015** – **Total Length (15')**

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



C-17

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

E Fittings

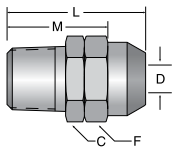
F Tooling, Equipment & Accessories





G General Technical

Parflex NoMar™ Fast-Stor® Fittings

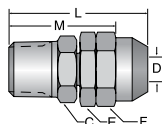
Parflex NoMar™ Fast-Stor® fittings are manufactured from a heavy brass construction utilizing all standards for NPTF pipe threads. The engineered barb design generates the maximum gripping and sealing power when combined with the socket.

MCB Male Pipe Rigid



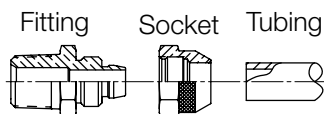
| Part Number | Hose Part Number | Thread Size | Hose I.D. | | L | | Cutoff M | | C Hex | | F Hex | |
|-------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|------|------|----------|------|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|----|
| # | # |  |  | | | | | |  | |  | |
| | | | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| MCB-3x2-2 | UFS-32 | 1/8 NPT | 0.11 | 2.8 | 0.94 | 23.8 | 0.72 | 18.3 | 7/16 | 11 | 7/16 | 11 |
| MCB-4x2-2 | UFS-42 | 1/8 NPT | 0.12 | 3.0 | 1.00 | 25.4 | 0.74 | 18.8 | 7/16 | 11 | 7/16 | 11 |
| MCB-4x2-4 | UFS-42 | 1/4 NPT | 0.12 | 3.0 | 1.16 | 29.5 | 0.90 | 22.9 | 9/16 | 14 | 7/16 | 11 |
| MCB-6x4-4 | UFS-64 | 1/4 NPT | 0.23 | 5.8 | 1.16 | 29.5 | 0.90 | 22.9 | 5/8 | 16 | 5/8 | 16 |
| MCB-6x4-6 | UFS-64 | 3/8 NPT | 0.23 | 5.8 | 1.20 | 30.5 | 0.94 | 23.9 | 3/4 | 19 | 5/8 | 16 |
| MCB-8x5-6 | UFS-85 | 3/8 NPT | 0.27 | 6.9 | 1.29 | 32.8 | 0.99 | 25.1 | 3/4 | 19 | 3/4 | 19 |
| MCB-8x6-4 | UFS-86 | 1/4 NPT | 0.28 | 7.1 | 1.29 | 32.8 | 1.03 | 26.1 | 3/4 | 19 | 3/4 | 19 |
| MCB-8x6-6 | UFS-86 | 3/8 NPT | 0.34 | 6.6 | 1.30 | 33.0 | 1.04 | 26.4 | 3/4 | 19 | 3/4 | 19 |
| MCB-9x6-6 | UFS-96 | 3/8 NPT | 0.31 | 7.9 | 1.47 | 37.3 | 1.10 | 27.9 | 7/8 | 22 | 7/8 | 22 |
| MCB-9x6-8 | UFS-96 | 1/2 NPT | 0.32 | 8.1 | 1.61 | 40.9 | 1.24 | 31.5 | 7/8 | 22 | 7/8 | 22 |
| MCB-12x8-8 | UFS-128 | 1/2 NPT | 0.42 | 10.7 | 1.98 | 50.0 | 0.94 | 24.0 | 1 | 25 | 1 | 25 |

MLB Male Live Swivel



| Part Number | Hose Part Number | Thread Size | Hose I.D. | | L | | Cutoff M | | C Hex | | E Hex | | F Hex | |
|-------------|------------------|-------------|-----------|------|------|------|----------|------|-------|----|-------|----|-------|----|
| # | # | | | | | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| MLB-4x2-4 | UFS-42 | 1/4 NPT | 0.12 | 3.0 | 1.37 | 34.8 | 1.11 | 28.2 | 9/16 | 14 | 7/16 | 11 | 9/16 | 14 |
| MLB-6x4-4 | UFS-64 | 1/4 NPT | 0.22 | 5.6 | 1.37 | 34.8 | 1.11 | 28.2 | 9/16 | 14 | 5/8 | 16 | 5/8 | 16 |
| MLB-6x4-6 | UFS-64 | 3/8 NPT | 0.23 | 5.8 | 1.58 | 40.1 | 1.32 | 33.5 | 3/4 | 19 | 5/8 | 16 | 5/8 | 16 |
| MLB-8x5-6 | UFS-85 | 3/8 NPT | 0.27 | 6.9 | 1.68 | 42.7 | 1.38 | 35.1 | 3/4 | 19 | 3/4 | 19 | 3/4 | 19 |
| MLB-8x6-6 | UFS-86 | 3/8 NPT | 0.33 | 8.4 | 1.71 | 43.4 | 1.45 | 36.8 | 3/4 | 19 | 3/4 | 19 | 3/4 | 19 |
| MLB-9x6-6 | UFS-96 | 3/8 NPT | 0.31 | 7.9 | 1.87 | 47.5 | 1.50 | 38.1 | 3/4 | 19 | 7/8 | 22 | 7/8 | 22 |
| MLB-9x6-8 | UFS-96 | 1/2 NPT | 0.31 | 7.9 | 1.95 | 49.5 | 1.58 | 40.1 | 15/16 | 24 | 7/8 | 22 | 7/8 | 22 |
| MLB-12x8-8 | UFS-128 | 1/2 NPT | 0.42 | 10.7 | 2.30 | 56.5 | 1.26 | 32.0 | 7/8 | 22 | 1 | 25 | 1 | 25 |

Assembly Instructions



1. Using an appropriate cut-off tool (Parker 316 Cut-off tool, Parker HTC - Hose & Tubing Cutter or other sharp cutter), cut the air hose squarely to the correct length.
2. Install the SG Spring Guard on the hose. (Note: A guard is not required on -12 hose.)
3. Slide the FN Nut and FR Plastic Ferrule on the hose. The FR ferrule should be installed with the taper side toward the cut end of the hose. (Note: -12 hose uses a brass ferrule and requires the hose end to be dipped in clean water for lubrication.)
4. Insert the TS Tube Support and push the hose into the fitting body until bottomed. Slide the nut and ferrule up to the fitting body and tighten the nut finger tight. With a wrench, tighten the nut an additional 2 to 2-1/2 turns
5. Slide the Spring Guard over the nut until the lead coil snaps between the nut and fitting body hex.

Ultra-Lite Superbraid Hose



Features

- More than 20% lighter than similar braided polyurethane hoses
- Extremely tough and abrasion resistant
- State-of-the-art strain relief system allows the hose to bend freely without kinking at the fitting
- Features lightweight, non-marring jacket

Applications/Markets



- Auto Repair
- Blow Guns
- Construction
- Carpentry
- Furniture Manufacturing
- Mfg. Air Drops
- Marine
- Water Hose

| Part Number | Nominal I.D. | | Nominal O.D. | | Total Length | Maximum Working Pressure 73°F/23°C | | Fitting Size & Type |
|----------------------------------|--------------|----|--------------|----|---------------|---------------------------------------|------|-----------------------|
| # | | | | | | | | |
| | inch | mm | inch | mm | feet | psi | MPa | |
| SB-4-B-xxx-ML4 SB-4-Y-xxx-ML4 | 1/4 | 6 | 3/8 | 10 | 025, 050, 100 | 220 | 1.52 | 1/4" Male NPT, Swivel |
| SB-5-B-xxx-ML6 SB-5-Y-xxx-ML6 | 5/16 | 8 | 15/32 | 12 | 025, 050, 100 | 185 | 1.28 | 3/8" Male NPT, Swivel |
| SB-6-Y-xxx-ML4 | 3/8 | 10 | .515 | 13 | 025, 050, 100 | 200 | 1.38 | 1/4" Male NPT, Swivel |
| SB-6-Y-xxx-ML6 | 3/8 | 10 | .515 | 13 | 025, 050, 100 | 200 | 1.38 | 3/8" Male NPT, Swivel |
| SB-6-Y-xxx-MC4 | 3/8 | 10 | .515 | 13 | 025, 050, 100 | 200 | 1.38 | 1/4" Male NPT, Swivel |
| SB-6-Y-xxx-MC6 | 3/8 | 10 | .515 | 13 | 025, 050, 100 | 200 | 1.38 | 3/8" Male NPT, Swivel |

Construction

Tube: Polyurethane
Reinforcement: Polyester
Cover: Polyurethane
Fittings: Brass
O-rings: Buna-N
Strain Relief Sleeves: Acetal

Operating Parameters

Temperature Range: -40°F to +165°F
(-40°C to + 74°C)

Fittings




Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX
Field Attachable Part Number:

| | |
|---------|-----------|
| 06244S | 06264SU |
| 06254S | 06266SU |
| 06256S | 06244-HS |
| 06264RU | 06226-HSU |

Notes

xxx- Denotes Hose Length

SB – Bulk Hose Without Fittings

| Part Number | Nominal I.D. | | Nominal O.D. | | Working Length | Maximum Working Pressure | |
|--------------------------|-----------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------|----|--------------------|------------------------------------------------------------------------------------|------|
| # |  | |  | | |  | |
| | inch | mm | inch | mm | feet | psi | MPa |
| SB-4-B-xxx SB-4-Y-xxx | 1/4 | 6 | 3/8 | 10 | 025, 050, 100, 500 | 220 | 1.52 |
| SB-5-B-xxx SB-5-Y-xxx | 5/16 | 8 | 15/32 | 12 | 025, 050, 100, 300 | 185 | 1.28 |
| SB-6-Y-xxx | 3/8 | 10 | .515 | 13 | 025, 050, 100, 500 | 200 | 1.38 |

Order Information

Example: SB-4-Y-050-ML4



SB-4-Y-050-ML4 – Super Braid

SB-**4**-Y-050-ML4 – Hose ID (1/4")

SB-4-**Y**-050-ML4 – Color (Yellow)

SB-4-Y-**050**-ML4 – Total Length (50')

SB-4-Y-050-**ML4** – Fittings Size & Type
(1/4' Male NPT, Swivel)

| Color Code | | |
|-------------------------------------------------------------------------------------|------|------------------|
|  | TBLU | Transparent Blue |
|  | YEL | Yellow |

For detailed ordering information, please consult price list or contact Parflex® Division.

[illegible]

Transportation

Air Brake Tubing

Diesel Fuel Tubing

High Temperature Fuel Tubing

Truck Coils

Cut Tubes

Formed Tubes

Jacketed Bundles

Air Brake Harnesses

SCR Hose



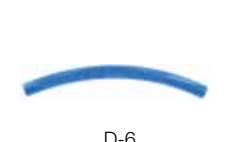




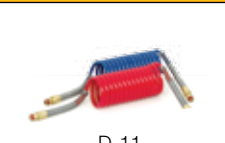
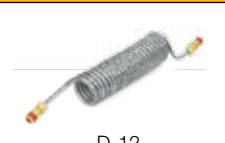

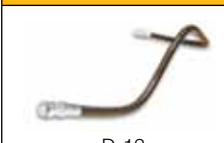
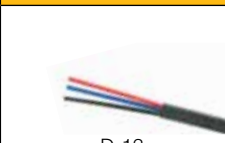
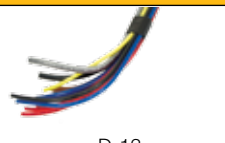




Table of Contents

| | |
|---------------------------------------------|------|
| Air Brake Tubing | D-4 |
| Quantum® Elastomeric Air Brake Tubing | D-5 |
| PFT-FL Diesel Fuel Tubing | D-6 |
| HTFL Diesel Fuel Tubing, High Temp | D-7 |
| BRAKCoil® | D-8 |
| Duo-Coil™ | D-9 |
| DollyCoil™ | D-10 |

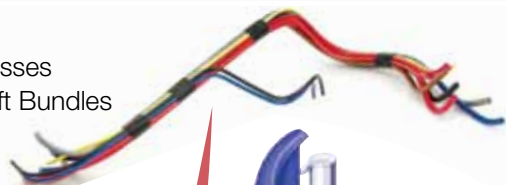
| | |
|------------------------------|------|
| SliderCoil™ | D-11 |
| Fifth Wheel Slider | D-12 |
| Cut Tubes | D-13 |
| Formed Tubes and Hoses | D-13 |
| Jacketed Bundles | D-13 |
| Straight Harnesses | D-13 |
| Formed Harnesses | D-13 |
| SCR Hose | D-14 |

Transportation Visual Index

| Transportation Products | Air Brake Tubing | Quantum® Tubing | PFT-FL Diesel Fuel Tubing | HTFL High-Temperature Diesel Fuel Tubing | BRAKCoil® |
|-------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| |  D-4 |  D-5 |  D-6 |  D-7 |  D-8 |
| | Duo-Coil® | DollyCoil™ | SliderCoil™ | Fifth Wheel Slider | Cut Tubes |
| |  D-9 |  D-10 |  D-11 |  D-12 |  D-13 |
| | Formed Tubes & Hoses | Jacketed Bundles | Straight Harnesses | Formed Harnesses | SCR Hose |
| |  D-13 |  D-13 |  D-13 |  D-13 |  D-14 |

Parflex Transportation Products

Formed Dash Harnesses
Transmission Air Shift Bundles
Cab Tilt Lines



Air Brake Tubing
Air Brake Harnesses



Slider Coils
Tire Inflation Hoses



B Tubing

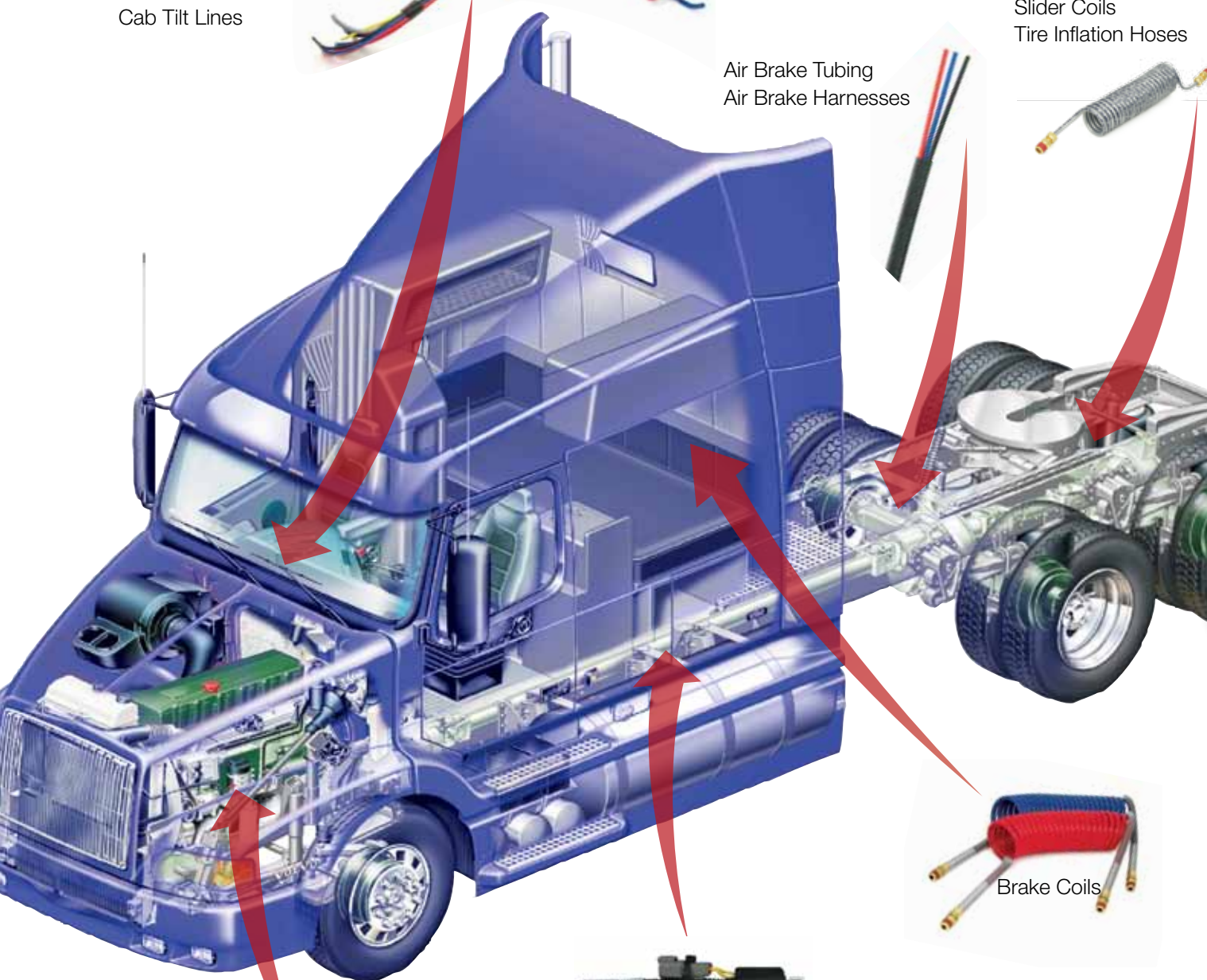
C Coiled Air Hose
& Fittings

D Transportation

E Fittings

F Tooling, Equipment
& Accessories

G General Technical



Brake Coils



Heated SCR Hose
Fuel Tubing
High Temp Fuel Lines



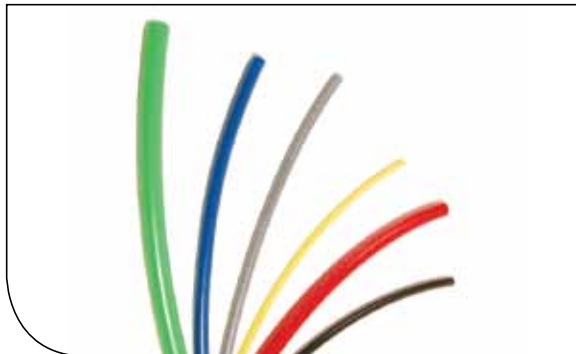
Compressor Discharge Lines
Formed Power Steering Hoses

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



1120 Nylon Air Brake Tubing



Features

- 100% Pressure Tested
- Excellent UV Stability
- Abrasion Resistant
- Kink Resistant

Certifications

- Meets SAE Specification J844
- Meets DOT FMVSS 49CFR 571.106

Applications



- Air brake lines

| Part Number | Tube O.D. | Outside Diameter | | Inside Diameter | | Nominal Wall Thickness | | Burst Pressure at 73°F / 23°C | | Minimum Bend Radius | | Weight | | Standard Reel | | Standard Pallet | |
|--------------------|-----------|------------------|------|-----------------|------|------------------------|-----|-------------------------------|------|---------------------|------|--------------|----------|---------------|-------|-----------------|-------|
| # | | | | | | | | | | | | | | | | | |
| | inch | inch | mm | inch | mm | inch | mm | psi | bar | inch | mm | lbs./100 ft. | kg./mtr. | feet | meter | feet | meter |
| 1120-2A-XXX-1000 | 1/8 | .125 | 3.2 | .079 | 2.0 | .023 | 0.6 | 1000 | 69.0 | .370 | 9.4 | .340 | 0.51 | 1000 | 305 | 24,000 | 7315 |
| 1120-2.5A-XXX-1000 | 5/32 | .156 | 4.0 | .092 | 2.3 | .032 | 0.8 | 1200 | 82.7 | .500 | 12.7 | .570 | 0.85 | 1000 | 305 | 24,000 | 7315 |
| 1120-3A-XXX-1000 | 3/16 | .188 | 4.8 | .118 | 3.0 | .035 | 0.9 | 1200 | 82.7 | .750 | 19.1 | .770 | 1.15 | 1000 | 305 | 24,000 | 7315 |
| 1120-4A-XXX-1000 | 1/4 | .250 | 6.4 | .170 | 4.3 | .040 | 1.0 | 1200 | 82.7 | 1.00 | 25.4 | 1.21 | 1.80 | 1000 | 305 | 24,000 | 7315 |
| 1120-5A-XXX-500 | 5/16 | .313 | 7.9 | .232 | 5.9 | .040 | 1.0 | 1000 | 69.0 | 1.25 | 31.8 | 1.57 | 2.34 | 500 | 152 | 12,000 | 3658 |
| 1120-6B-XXX-500 | 3/8 | .375 | 9.5 | .251 | 6.4 | .062 | 1.6 | 1400 | 96.5 | 1.50 | 38.1 | 2.70 | 4.02 | 500 | 152 | 12,000 | 3658 |
| 1120-8B-XXX-500 | 1/2 | .500 | 12.7 | .376 | 9.6 | .062 | 1.6 | 950 | 65.5 | 2.00 | 50.8 | 3.90 | 5.81 | 500 | 152 | 6,000 | 3658 |
| 1120-10B-XXX-250 | 5/8 | .625 | 15.9 | .441 | 11.2 | .092 | 2.3 | 900 | 62.1 | 2.50 | 63.5 | 7.00 | 10.43 | 250 | 76 | 3,000 | 914 |
| 1120-12B-XXX-250 | 3/4 | .750 | 19.1 | .566 | 14.4 | .092 | 2.3 | 800 | 55.2 | 3.00 | 76.2 | 8.60 | 12.81 | 250 | 76 | 3,000 | 914 |

XXX represents color code.

Construction

Material:

Type A – Single-wall extruded Nylon (polyamide)

Type B – Nylon (polyamide) core, fiber reinforcement, Nylon (polyamide) jacket/sheath

Operating Parameters

Temperature Range:

-40°F to +200°F (-40°C to +93°C)

Working Pressure: 150 psi (10.3 bar)

Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- NTA
- PMT
- PTC

Colors

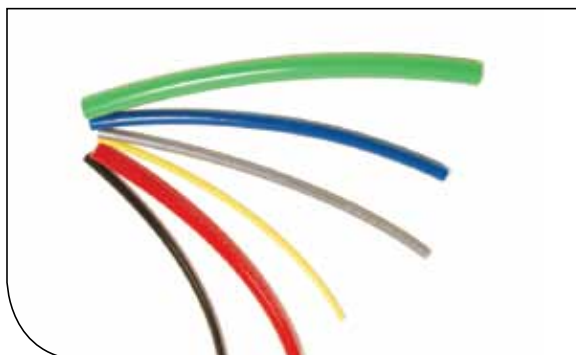
| Color Code | | |
|------------|-----|--------|
| | BLK | Black |
| | BLU | Blue |
| | BRN | Brown |
| | GRN | Green |
| | ORG | Orange |
| | PUR | Purple |
| | RED | Red |
| | SIL | Silver |
| | TAN | Tan |
| | YEL | Yellow |
| | WHT | White |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

1320 Quantum® Elastomeric Air Brake Tubing



Features

- 100% Pressure Tested
- Excellent UV Stability
- Abrasion Resistant
- Kink Resistant

Certifications

- Meets or exceeds the performance requirements of DOT 49CFR571.106 and SAE J844

Applications



- Air brake lines

| Part Number | Tube O.D. | Outside Diameter | | Inside Diameter | | Nominal Wall Thickness | | Burst Pressure at 73°F / 23°C | | Minimum Bend Radius | | Weight | | Standard Reel | | Standard Pallet | |
|-----------------|-----------|------------------|------|-----------------|-----|------------------------|-----|-------------------------------|------|---------------------|------|--------------|----------|---------------|-------|-----------------|-------|
| # | | | | | | | | | | | | | | | | | |
| | inch | inch | mm | inch | mm | inch | mm | psi | bar | inch | mm | lbs./100 ft. | kg./mtr. | feet | meter | feet | meter |
| 1320-6B-XXX-500 | 3/8 | .375 | 9.5 | .251 | 6.4 | .062 | 1.6 | 1400 | 96.5 | 1.50 | 38.1 | 2.70 | 4.02 | 500 | 152 | 12,000 | 3658 |
| 1320-8B-XXX-500 | 1/2 | .500 | 12.7 | .376 | 9.6 | .062 | 1.6 | 950 | 65.5 | 2.00 | 50.8 | 3.90 | 5.81 | 500 | 152 | 6,000 | 3658 |

XXX represents color code.

Construction

Material: Proprietary elastomeric material
Type B - Proprietary, reinforced design

Operating Parameters

Temperature Range:
-40°F to +200°F (-40°C to +93°C)
Working Pressure: 150 psi (10.3 bar)

Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

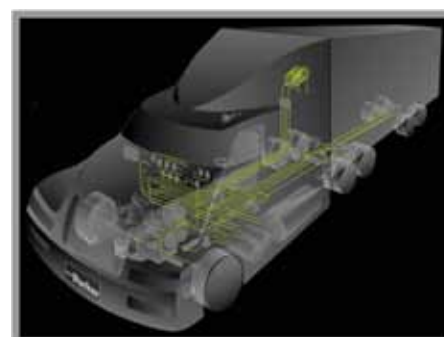
- NTA
- PMT
- PTC

Colors

| Color Code | | |
|------------|-----|--------|
| ● | BLK | Black |
| ● | BLU | Blue |
| ● | BRN | Brown |
| ● | GRN | Green |
| ● | ORG | Orange |
| ● | RED | Red |
| ● | SIL | Silver |
| ● | YEL | Yellow |

Order Information

To order 1120 or 1320 Air Brake Tubing, add color code and reel length to specify part number. ie.
1120-4A-BLK-1000 **Typical order examples:**
24,000 feet, 1120-4A-BLK-1000 - Product ordered is 1/4" O.D. Black Air Brake Tubing, (24) 1000-foot reels of tubing on 1 pallet. **500 feet, 1120-10B-RED-250** - Product ordered is 5/8" O.D. Red Air Brake Tubing, (2) 250-foot reels of tubing in boxes.



For detailed ordering information, please consult price list or contact Parflex® Division.

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D-5

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Parflex Diesel Fuel Tubing



Features

- Nylon tubing designed for use in tractor, trailer and other mobile fuel systems
- Heat and light stabilized
- 100% quality controlled – 100% pressure tested
- Saves weight and labor in comparison with hose and hard-line tubing

Approvals

- Compatible with JP-5 (MIL-DTL-5624) and JP-8 (MIL-DTL-83133)
- Compatible with Biodiesel per Parflex PPB PL-18 hard-line tubing

Applications



- D.O.T. diesel fuel applications

| Part Number | Nominal Tube O.D. | | Nominal Tube I.D. | | Minimum Bend Radius | | Weight | | Standard Reel | |
|--------------------|-------------------|----|-------------------|----|---------------------|----|----------|----------|---------------|-------|
| # | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | lbs./ft. | kg./mtr. | feet | meter |
| PFT-4A-XXX-1000-FL | 1/4 | 6 | .170 | 4 | 1 | 25 | .012 | .005 | 1000 | 305 |
| PFT-6B-XXX-500-FL | 3/8 | 10 | .251 | 6 | 1-1/2 | 38 | .027 | .012 | 500 | 152 |
| PFT-8B-XXX-500-FL | 1/2 | 13 | .376 | 10 | 2 | 51 | .039 | .018 | 500 | 152 |
| PFT-10B-XXX-250-FL | 5/8 | 16 | .441 | 11 | 2-1/2 | 64 | .070 | .032 | 250 | 76 |
| PFT-12B-XXX-250-FL | 3/4 | 19 | .566 | 14 | 3 | 76 | .086 | .039 | 250 | 76 |

XXX represents color code.

Construction

Heat and light stabilized seamless extruded nylon core reinforced with fibrous reinforcement and bonded with a protective blue nylon cover sheath

Operating Parameters

Temperature Range:

-40°F to +200°F (-40°C to +93°C)

Maximum Working Pressure: 150 psi (10.3 bar)

Do not exceed temperature and pressure ranges

Color

- BLU

Blue is standard

Consult division for additional colors

Fittings

Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:

- NTA
- DF (Diesel Fuel Only)

Notes

Contact Parflex Division for application review

HTFL Diesel Fuel Line Tubing (High-Temperature)



Features

- Heat and UV stabilized
- For use in high temperature applications
- 100% Pressure Tested
- Lightweight
- Pre-formed tubes available

Applications



| Part Number | Nominal Tube O.D. | | Nominal Tube I.D. | | Nominal Wall Thickness | | Working Pressure | | Minimum Burst at 73°F / 23°C | | Minimum Bend Radius | | Weight | | Standard Reel | |
|------------------|-------------------|----|-------------------|----|------------------------|-----|------------------|------|------------------------------|------|---------------------|----|----------|----------|---------------|-------|
| # | | | | | | | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | lbs./ft. | kg./mtr. | feet | meter |
| HTFL-6B-BRN-500 | 3/8 | 10 | .251 | 6 | .062 | 1.6 | 175 | 12.1 | 1,400 | 96.5 | 1-1/2 | 38 | .028 | .013 | 500 | 152 |
| HTFL-8B-BRN-500 | 1/2 | 13 | .376 | 10 | .062 | 1.6 | 155 | 10.7 | 950 | 65.5 | 2 | 51 | .039 | .018 | 500 | 152 |
| HTFL-10B-BRN-250 | 5/8 | 16 | .441 | 11 | .092 | 1.6 | 140 | 9.7 | 900 | 62.1 | 2-7/8 | 73 | .071 | .032 | 250 | 76 |
| HTFL-12B-BRN-250 | 3/4 | 19 | .566 | 14 | .092 | 1.6 | 150 | 10.3 | 800 | 55.1 | 3 | 76 | .086 | .039 | 250 | 76 |

Construction

Tube: High-temperature and chemical-resistant special polyamide

Reinforcement: High-strength yarn fiber

Cover: High-temperature and UV-resistant special polyamide

Operating Parameters

Temperature Range:

-50°F to +266°F (-46°C to +130°C)

Vacuum Rating: 28 inch Hg

Fittings

Parker Fittings available from:

Fluid System Connectors Division

Otsego, MI

(269) 692-6555

(269) 694-4614 FAX

FSC Product Families:

NTA

Color

● BRN

Brown is standard

Consult division for additional colors

Notes

Compatible with JP-5 (MIL-DTL-5624) and JP-8 (MIL-DTL-83133)

Compatible with Biodiesel per Parflex PPB PL-18

For detailed ordering information, please consult price list or contact Parflex® Division.

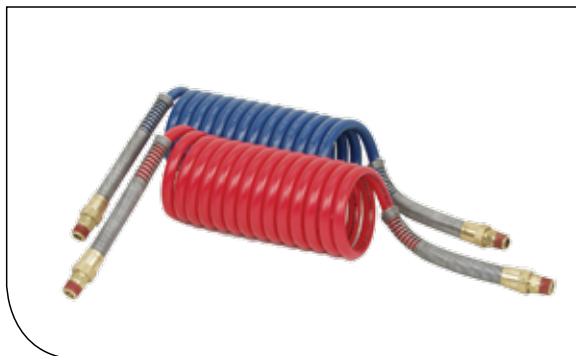
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D-7

A Hose
B Tubing
C Coiled Air Hose & Fittings
D Transportation
E Fittings
F Tooling, Equipment & Accessories
G General Technical

BRAKCOIL®



Features

- Tractor-to-trailer coiled nylon air-brake connections
- Maintenance-free performance - designed for trouble-free service on your rig
- Years of city delivery and line haul testing
- Heavy-duty plated spring guards are rust-resistant for added protection
- More coils offer you maximum working lengths
- No need for pogo sticks or spring hangers
- Color coding gives you mistake-free hook-ups – blue for service, red for emergency


Certifications

- Meets or exceeds SAE J844 and D.O.T. FMVSS 106 Specifications at -70°F to +200°F

Applications



- Tractor to Trailer

| Kit Coil Number | Individual Coil Part Number | Tube O.D. | | Valve Tail Length | | Brass Male Ends (NPT) | | | | Working Length | | Number of Coils |
|-----------------------|-----------------------------------|------------------------------------------------------------------------------------|----|-------------------------|------|--------------------------|----|----------|----|-------------------|-------|--------------------|
| | | | | | | Valve | | Gladhand | | | | |
| # | # |  | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | feet | meter | |
| 731516 | 731512-Red 731512-Blue | -8 | 13 | 12 | 305 | 1/2 | 13 | 1/2 | 13 | 15 | 4.6 | 21-1/2 |
| 751597 | 731611-Red 731611-Blue | -8 | 13 | 12 | 305 | 3/8 | 10 | 1/2 | 13 | 15 | 4.6 | 21-1/2 |
| 731522 | 731513-Red 731513-Blue | -8 | 13 | 40 | 1016 | 1/2 | 13 | 1/2 | 13 | 15 | 4.6 | 21-1/2 |
| 741526 | 731612-Red 731612-Blue | -8 | 13 | 40 | 1016 | 3/8 | 10 | 1/2 | 13 | 15 | 4.6 | 21-1/2 |
| 751641 | 741590-Red 741590-Blue | -8 | 13 | 6 | 152 | 1/2 | 13 | 1/2 | 13 | 12 | 3.7 | 18-1/2 |
| 751655 | 751656-Blk Black Only | -8 | 13 | 6 | 152 | 3/8 | 10 | 1/2 | 13 | 12 | 3.7 | 18-1/2 |

Order Information

BRAKCOIL® kits are supplied complete – **Parker pre-assembled**, with everything needed, including spring guards and male pipe NTA brass fittings, **ready to install**. Special pipe thread sealant is factory applied. No cutting or assembly necessary. Just attach the gladhands (sold separately or pre-assembled). They are available in kits or as separate lines. A kit consists of both a red and blue tube assembly.

Construction

Tube: Coiled Nylon Air Brake Tubing

Operating Parameters

Temperature Range:
-70°F to +200°F (-57°C to +93°C)

Options

Extended BRAKCOIL handle available, part no. 771164

Gladhands available

- Blue – Part # GH9211
- Red – Part # GH9212


Duo-Coil™ Features



Applications



- Tractor to Trailer

| Kit Coil Number | Tube O.D. | | Valve Tail Length | | Brass Male Ends (NPT) | | | | Working Length | | Number of Coils |
|-----------------------|-----------------------------------------------------------------------------------|----|-------------------------|------|--------------------------|----|----------|----|-------------------|-------|--------------------|
| | | | | | Valve | | Gladhand | | | | |
| # |  | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | feet | meter | |
| 801048 | -8 | 13 | 12 | 305 | 1/2 | 13 | 1/2 | 13 | 15 | 4.6 | 21-1/2 |
| 801632 | -8 | 13 | 6 | 152 | 1/2 | 13 | 1/2 | 13 | 12 | 3.7 | 18-1/2 |
| 801595 | -8 | 13 | 40 | 1016 | 1/2 | 13 | 1/2 | 13 | 15 | 4.6 | 21-1/2 |

Order Information

Duo-Coil™ kits are supplied complete – **Parker pre-assembled**, with everything needed, including spring guards and pipe end NTA fittings, **ready to install**. Special pipe thread sealant is factory applied. No cutting or fitting assembly is necessary. Just attach the gladhands (sold separately or pre-assembled).

Features

- Duo-Coil combines both tractor-to-trailer lines (service and emergency) into a strong single unit
- Designed for quick hook-up and trouble-free service on your rig
- Reverse winding of the coiled air brake lines eliminates the possibility of tangling
- Installation swivel fittings make hook-up a snap
- The inner red emergency coil is wound inside the blue service coil offering added protection to the driver
- The single unit provides clean and neat installation

Certifications

- Meets or exceeds SAE J844 and D.O.T. FMVSS 106 Specifications at -70°F to +200°F

Construction

Tube: Coiled Nylon Air Brake Tubing

Operating Parameters

Temperature Range:
-70°F to +200°F (-57°C to +93°C)

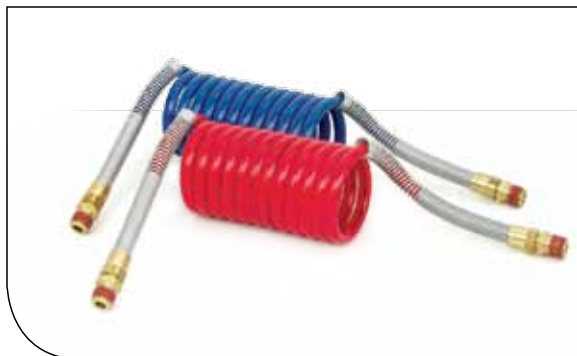
Options

Extended BRAKCOIL handle available,
part no. 771164

Gladhands available

- Blue – Part # GH9211
- Red – Part # GH9212

DollyCoil™



Features

- No need to install springs or hangers
- Will retract to its original shape even after long periods of extended use


Certifications

- Meets or exceeds SAE J844 and D.O.T. FMVSS 106 Specifications at -70°F to +200°F

Applications



- Multiple Trailers
- Converter Dollies

| Kit Coil Number | Tube O.D. | | Valve Tail Length | | Brass Male Ends (NPT) | | | | Standard Working Length | | Number of Coils |
|-----------------------|-----------------------------------------------------------------------------------|----|-------------------------|----|--------------------------|----|----------------------|----|-------------------------------|-------|--------------------|
| | | | | | Valve 90° End | | Gladhand 180° End | | | | |
| # |  | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | feet | meter | |
| 751634 | -8 | 13 | 8 | 13 | 1/2 | 13 | 1/2 | 13 | 6 | 1.83 | 12 |

Order Information

DollyCoil™ kits are supplied complete – **Parker pre-assembled**, with everything needed, including spring guards and male pipe end NTA fittings, **ready to install**. Special pipe thread sealant is factory applied. No cutting or assembly necessary. Just attach the gladhands (sold separately or pre-assembled). They are available in kits or as separate lines. A kit consists of both a red and blue tube assembly.

Construction

Tube: Coiled Nylon Air Brake Tubing

Operating Parameters

Temperature Range:
-70°F to +200°F (-57°C to +93°C)

Options

Extended BRAKCOIL handle available, part no. 771164

Gladhands available

- Blue – Part # GH9211
- Red – Part # GH9212

SliderCoil™



Features

- Used between an adjustable rear trailer axle and the final point on a trailer chassis
- No need to install springs or hangers
- Will retract to its original shape even after long periods of extended use


Certifications

- Meets or exceeds SAE J844 and D.O.T. FMVSS 106 Specifications at -70°F to +200°F

Applications



- Tractor Trailers (Sliding)
- Tractor Trailers (Axles)

| Kit Coil Number | Individual Coil Part Number | Tube O.D. | | Valve Tail Length | | Brass Male Ends (NPT) | | | | Working Length | | Number of Coils |
|-----------------------|-----------------------------------|-----------------------------------------------------------------------------------|----|-------------------------|----|--------------------------|----|----------------------|----|-------------------|-------|--------------------|
| | | | | | | Valve 90° End | | Gladhand 180° End | | | | |
| # | # |  | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | feet | meter | |
| 751657 | 751658-BLU, RED | -8 | 13 | 8 | 13 | 1/4 | 6 | 1/4 | 6 | 14-1/2 | 4.5 | 6' - 8' |
| 751659 | 751660-BLU, RED | -8 | 13 | 8 | 13 | 3/8 | 10 | 3/8 | 10 | 14-1/2 | 4.5 | 6' - 8' |

Order Information

SliderCoil™ kits are supplied complete – **Parker pre-assembled**, with everything needed, including spring guards and male pipe end NTA fittings, **ready to install**. Special pipe thread sealant is factory applied. No cutting or assembly necessary. They are available in kits or as separate lines. A kit consists of both a red and blue coil assemblies.

Construction

Tube: Coiled Nylon Air Brake Tubing

Operating Parameters

Temperature Range: -70°F to +200°F (-57°C to +93°C)

Color

- Blue
- Red

Options

Extended BRAKCOIL handle available, part no. 771164

Fifth Wheel Slider Coil



Features

- Clutter-free hook-up and maintenance-free performance of adjustable length pneumatic tubing for fifth wheel sliding action
- Self-adjusts from 10" to fully extended 54" working length
- Universal, ready for immediate installation
- No maintenance required - stays on the job at peak performance through years of trouble-free life
- Coil set is strong and permanent - Even after prolonged use in fully extended position, coils will retract to shorter length without sagging and eliminating hazards of chafing and wear

Applications



- Double Trailers
- Covert, Dollies

Certifications

- Conforms to SAE Specification J844 Type A
- Meets D.O.T. FMVSS 106

| Part Number | Fittings | Pigtail Length | | Max. Extended Length | | Retracted Length | |
|---------------|--------------|----------------|----|----------------------|------|------------------|-----|
| | | inch | mm | inch | mm | inch | mm |
| # | | | | | | | |
| 811537 | (2)68NTA-4-4 | 2 | 51 | 74 | 1880 | 10 | 254 |
| 811537-NF-BLK | - | 2 | 51 | 74 | 1880 | 10 | 254 |

Order Information

Fifth Wheel Slider Coil part# 811537 comes complete with fittings. Part# 811537-NF-BLK does not include fittings.

Construction

Tube: 1/4" O.D. extruded Nylon, heat and light stabilized, single wall

Operating Parameters

Temperature Range: -40°F to +200°F (-40°C to +93°C)

Color

- SIL

Options

Available with or without fittings

Custom Harness, Bundles & Tubing

Order Information

Several different harnesses may be required on a single unit depending upon the model of the vehicle, wheel base and options available. To determine your harness application needs:

1. **Recognize the cost savings** available to you through the use of harnesses.
How many dollars will be saved on tubing installation alone? On scrap reduction?
2. **Call Parker.** Have one of our application engineers study your application.
3. **Have Parker engineers design and build a prototype** harness for your approval.
4. **Approve the prototype** as our basis to engineer your production model harness.
5. **Implement the harness** into your Purchasing and Production systems – one harness, one part number instead of multiple part numbers you once had for each air brake line.

Features

- Preformed, pre-bundled tubing or hose custom designed to reduce installation time and improve throughput
- Your production line will run faster and be virtually free from tubing scrap
- Individual tubes are pre-cut and assembled into a single unit

Certifications

- Designed and engineered to meet the exacting requirements of each bus or truck manufacturer for each vehicle
- The air brake tubing used in a Parflex Harness conforms to SAE J844 type 3A and 3B and also D.O.T. FMVSS 106

Tubing

Construction

Tube: Nylon Air Brake Tubing

Operating Parameters

Temperature Range: -40°F to +200°F (-40°C to +93°C)

Working Pressure: 150 psi (10.3 bar)

Options

Each tube can be color-coded and/or numbered

Each harness may contain any number of tube sizes ranging from 1/8" O.D. to 3/4" O.D.

The harness can be supplied with special clamps, brackets and fittings to meet any need required by the customer

Hose

Contact Parflex Customer Service for custom formed hoses and hose assemblies



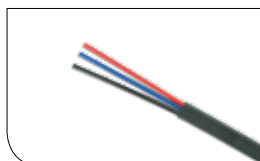
Cut Tubes

Any tube offered by Parflex can be cut-to-length, with options for additional marking



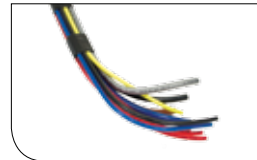
Formed Tubes

Tubes can be formed into shapes for ease of installation



Jacketed Bundles

Two or more tubes can be bundled together with an extruded thermoplastic jacket



Straight Harnesses

Combine multiple cut tubes into a harness built specifically for your application



Formed Harnesses

Combine multiple formed tubes to create a repeatable tubing routing solution



Formed Assemblies

Most Parflex thermoplastic hoses can be formed into application specific shapes

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



D-13

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

SCR Hose Assemblies for Tier IV Compliance



Features

- Consistent thaw - more reliable than coolant heated lines
- Multiple options available to fit every application
- Protective Overmolding
 - Protection against water ingress and damage of electrical components
 - Bolsters fitting strength and impact resistance
- Corrugated heat shield offers abrasion and heat resistance
- Assembled and designed in USA

Certifications

- Parflex Division is third party certified for ISO 14001 and TS 16949

Applications



- Diesel Exhaust Fluid Conveyance

Keeping the Air We Breath Clean

With Electrically Heated SCR Hose Assemblies from Parker's Parflex Division, a cleaner exhaust system means a cleaner environment. Designed for heating and conveying DEF (Diesel Exhaust Fluid) throughout the SCR system on commercial vehicles, Parflex hoses are made to handle both on-road and off-road applications while helping you stay Tier IV and EPA '10 compliant. Combine these hoses with other high value Parflex fluid conveyance products (pilot lines, grease lines, hydraulic hoses, etc.) so your customer can enjoy best in class durability and performance.

Unlike the competition's electrically heated hose, Parflex SCR hoses encapsulate the heating elements with an extruded sheath for added protection and long-lasting uniform heating. The overmold on the fittings provide impact and water resistance, making the hoses suitable for multiple environments.

Each configuration utilizes materials specifically formulated for their application. All Parflex SCR hose assemblies have multiple options, allowing customization by the equipment manufacturer/end user.

*Both styles available with 6mm I.D.
Please contact Parflex for other hose internal
diameters, custom requirements
or non-purge systems.*

**Contact Parflex for
3mm or 4mm I.D. nylon
lines, or 4mm or 5.5mm
EPDM lines. Other
custom designs
available!**

*Check www.scrhose.com
for product updates*

S0/S1

Suction/Throttle Line Design



Parflex SCR Hose Assembly Polyamide Suction/Throttle Line

- Polyamide core tube with fabric reinforcement
- Extruded thermoplastic jacket
- Optional heat/abrasion shield

Certifications

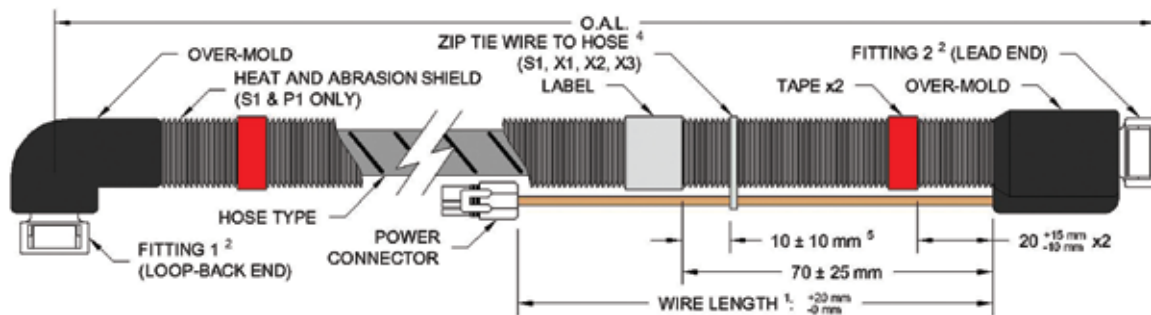
- TS 16949
- ISO 14001

Operating Parameters

- Temperature Range: -40°F to 158°F (-40°C to 70°C)
Spikes to 221°F (105°C)
- Available in 12VDC or 24VDC design

| Base Part Number | Nominal I.D. | | O.D. | | with Shield (opt) | | Max. Oper. Pressure | | Min. Burst Pressure | | Vacuum Resistance | | Bend Radius | | Standard Lengths* |
|------------------|--------------|------|------|------|-------------------|------|---------------------|-----|---------------------|-----|-------------------|--------|-------------|----|--------------------|
| | mm | inch | mm | inch | mm | inch | psi | bar | psi | bar | inch | Hg/bar | inch | mm | mtr |
| S0 | 6 | .24 | 14 | .55 | NA | NA | 145 | 10 | 600 | 40 | 8.9 | 300m | 2 | 51 | 1/2, 1, 1-1/2 or 2 |
| S1 | 6 | .24 | 14 | .55 | 21 | .827 | 145 | 10 | 600 | 40 | 8.9 | 300m | 2 | 51 | 1/2, 1, 1-1/2 or 2 |

*Please contact Parflex for overall lengths other than those listed. Nonstandard lengths are available.



P1

Pressure Line Design



Parflex SCR Hose Assembly Polyamide Pressure Line

- Specialty high temperature polyamide core with fabric reinforcement
- Stainless steel heating wire
- Extruded high temperature thermoplastic jacket
- Heat/abrasion shield

Operating Parameters

- Temperature Range: -40°F to 248°F (-40°C to 120°C)
Spikes to 284°F (140°C)
- Available in 12VDC or 24VDC design

| Base Part Number | Nominal I.D. | | w/ Heat Shield | | Max. Oper. Pressure | | Min. Burst Pressure | | Bend Radius | | Standard Lengths* |
|------------------|--------------|------|----------------|------|---------------------|-----|---------------------|-----|-------------|----|-------------------|
| | mm | inch | mm | inch | psi | bar | psi | bar | inch | mm | mtr |
| P1 | 6 | .24 | 21 | .82 | 189 | 13 | 600 | 40 | 2 | 51 | 1, 2 or 3 |

*Please contact Parflex for overall lengths other than those listed. Nonstandard lengths are available.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



D-15

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

E Fittings

F Tooling, Equipment & Accessories

G General Technical

[illegible]

Hose Fittings



Permanent/Crimp

Field Attachable/Reusable



Table of Contents

Intro

| | |
|---------------------------------------------------------|-----|
| Hose Fitting Nomenclature..... | E-3 |
| Fitting Configurations by Connection and End Code | E-4 |

Permanent/Crimp

| | |
|---------------------|-------|
| 54 Series | E-8 |
| 55/58 Series | E-12 |
| 57 Series | E-37 |
| 58H Series | E-41 |
| 91N/91 Series | E-52 |
| 92 Series | E-65 |
| 93N Series | E-67 |
| 94/95 Series | E-70 |
| PAGE Fittings | E-71 |
| CY Series | E-81 |
| SF Series | E-85 |
| HY Series | E-87 |
| LV Series | E-104 |
| MS Series | E-105 |
| SQ Series | E-107 |

Field Attachable/Reuseable

| | |
|-----------------|-------|
| 51 Series | E-5 |
| 90 Series | E-45 |
| BA Series | E-79 |
| BU Series | E-80 |
| MS Series | E-105 |



Parflex Fittings

Parflex has expanded the Fitting Section to include new products such as 54 Series Rapid Assembly fittings and also, CY Series, SF Series and PAGE Fittings, that were previously omitted.

The new PAGE fittings, which are designed for use with traditional PAGE fluoropolymer hoses only, are a two piece crimp connection and need to be combined with the corresponding crimp collars located on page E-72. As demonstrated below, the

nomenclature associated with the PAGE fitting is also not consistent with the traditional Parker products, as the end size and hose I.D. are reversed and located at the front of the part construction.

The Table of Content is broken out by style: Permanent/Crimp and Field Attachable/Reusable. Each fitting series has it's own Visual Index preceding the series with the fittings in a numerical picture index.

Parker Fitting Nomenclature

Example: 10355-8-6

This example describes a permanent crimp 1/2" Male JIC 37° with a 3/8" I.D. hose size. This fitting is constructed of steel since the designated material is blank.

10355-8-6 – Fitting Type (1 = Permanent/Crimp)
(2 = Field Attachable Fitting)
10355-8-6 – End Configuration Code (Male JIC 37°)
10355-8-6 – Fitting Series (Series 55)
10355-8-6 – End Size (1/2")
10355-8-6 – Hose I.D. (3/8")
10355-8-6C – Alternate Material

Fitting part numbers that start with a "2" are field attachable fittings

Parker Fitting Material Selection

- Blank = Steel (unless otherwise noted)
- B = All Brass
- C = Stainless Steel
- S = All Carbon Steel – Used only with PTFE Fittings

PAGE Fitting Nomenclature

Example: 08-16SAN-S

This example describes a permanent sanitary flange step down, 1/2" I.D. hose with a 1" sanitary flange. This fitting is constructed of stainless steel since the designated material is -S.

08-16SAN-S – Hose I.D. (1/2")
08-16SAN-S – End Size (1")
08-16SAN-S – End Configuration Code
(Sanitary Flange)

PAGE Fitting Material Selection

- B = All Brass
- C = Carbon Steel

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

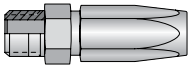
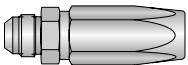
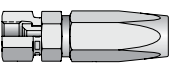
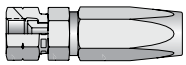
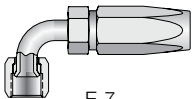
G
General Technical

Standard Fitting Configurations by Connection and End Code

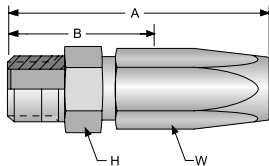
| | Description | End Code |
|----------------|-----------------------------------------------------------------|----------|
| Pipe | Male NPTF Pipe - Rigid - Straight | 01 |
| | Male NPTF Pipe - Swivel - Straight | 13 |
| | Male NPTF Pipe - Swivel - 90° Elbow | 1L |
| | Female NPTF Pipe - Rigid - Straight | 02 |
| | Female NPSM Pipe - Swivel - Straight (60° Cone) | 07 |
| SAE Str. Trd. | 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 - Swivel - 90° Elbow | 0L |
| | Male SAE Straight Thread with O-Ring - Adjustable - 90° Elbow | 35 |
| | Male JIC 37° - Rigid - Straight | 03 |
| Flare | Male JIC 37° - Bulkhead without Locknut - Straight | LB |
| | Female JIC 37° - Swivel - Straight | 06 |
| | Female JIC 37° - Swivel - 45° Elbow - Short Drop | 37 |
| | Female JIC 37° - Swivel - 45° Elbow - Medium Drop | L7 |
| | Female JIC 37° - Swivel - 90° Elbow - Short Drop | 39 |
| | Female JIC 37° - Swivel - 90° Elbow - Medium Drop | L9 |
| | Female JIC 37° - Swivel - 90° Elbow - Long Drop | 41 |
| | Male SAE 45° - Rigid - Straight | 04 |
| | Female SAE 45° - Swivel - Straight | 08 |
| | Female SAE 45 / Swivel - 45° Elbow | 77 |
| | Female SAE 45 / Swivel - 90° Elbow | 79 |
| | Female SAE 45 / Swivel - 90° Elbow - Long Drop | 81 |
| | Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight | 06 |
| | Male Inverted SAE 45° - Swivel - Straight | 28 |
| | Male Inverted SAE 45° - Swivel - 45° Elbow | 67 |
| Inverted Flare | Male Inverted SAE 45° - Swivel - 90° Elbow | 69 |
| | Female Inverted SAE 45° - Rigid - Straight | 29 |
| Seal-Lok | 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 |
| | 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 |
| JIS | 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 Metric L - Rigid - Straight (24° Cone) | D0 |
| Metric | Male Standpipe Metric L - Rigid - Straight | 1D |
| | Female Metric L - Swivel - Straight (Ball Nose) | C3 |





| | Description | End Code |
|-----------|---------------------------------------------------------------------|----------|
| Metric | Female Metric L - Swivel - 45° Elbow (Ball Nose) | C4 |
| | Female Metric L - Swivel - 90° Elbow (Ball Nose) | C5 |
| | Female Metric L - Swivel - Straight (24° Cone with O-Ring) | 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 |
| | Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring) | OC |
| | 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 |
| BSP | 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 |
| | Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet | BZ |
| | Male French Gaz Series - Rigid - Straight (24° Cone) | FG |
| | Female French Gaz Series - Swivel - Straight (Ball Nose) | F4 |
| | DIN Metric Banjo - Straight | 49 |
| Fr. Gaz | Male Standpipe - Rigid - Straight (Inch Size Tube O.D.) | 34 |
| | Male Standpipe - Rigid - Straight with V-Notch | TW |
| | Male Ferulok Flareless-Rigid-Straight (24° Cone with Nut & Ferrule) | 11 |
| | Female Ferulok Flareless - Swivel - Straight (24° Cone) | 12 |
| | Male Rapid Assembly, Straight | WU |
| | Male Rapid Assembly, 45° Elbow | WW |
| | Male Rapid Assembly, 90° Elbow | WY |
| | Bulkhead w/Zerk Port Integrated | GK |
| | Female A-Lok® Compression | AL |
| | Female Cam & Groove | FC |
| | Flange Retainer | 4K |
| | Male I-Line® Sanitary | H1 |
| | Female I-Line® Sanitary | H2 |
| | Male Sanitary Bevel Seat | H4 |
| | Female Sanitary Bevel Seat | H5 |
| | Sanitary Flange & Step Downs | FN |
| | Mini Sanitary Flange | FV |
| Specialty | | |
| | | |
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51 Series Visual Index

| | | | | | |
|---------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 51 Series FIELD ATTACHABLE | 201 Male Taper Pipe Rigid | 203 Male [JIC] 37° | 206 SAE [JIC] 37° Swivel | 208 SAE 45° Swivel | 239 [JIC] 37° Swivel 90° Elbow |
| |  E-5 |  E-6 |  E-6 |  E-7 |  E-7 |

20151 Male Taper Pipe Rigid



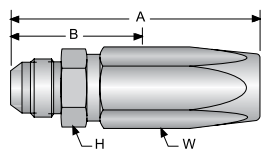
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----|------|----|-----------------|----|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| # |  |  | | | | | |  |  |
| 20151-2-3 | 1/8-27 | 3/16 | 5 | 1.71 | 43 | 1 | 25 | 7/16 | 5/8 |
| 20151-4-3 | 1/4-18 | 3/16 | 5 | 1.90 | 48 | 1-1/8 | 29 | 9/16 | 5/8 |
| 20151-2-4 | 1/8-27 | 1/4 | 6 | 1.90 | 48 | 1 | 25 | 1/2 | 5/8 |
| 20151-4-4 | 1/4-18 | 1/4 | 6 | 2.08 | 53 | 1-3/16 | 30 | 9/16 | 5/8 |
| 20151-4-5 | 1/4-18 | 5/16 | 8 | 2.17 | 55 | 1-7/16 | 37 | 9/16 | 3/4 |
| 20151-6-5 | 3/8-18 | 5/16 | 8 | 2.17 | 55 | 1-7/16 | 37 | 3/4 | 3/4 |
| 20151-4-6 | 1/4-18 | 3/8 | 10 | 2.61 | 66 | 1-7/16 | 37 | 3/4 | 7/8 |
| 20151-6-6 | 3/8-18 | 3/8 | 10 | 2.61 | 66 | 1-7/16 | 37 | 3/4 | 7/8 |
| 20151-8-6 | 1/2-14 | 3/8 | 10 | 2.80 | 71 | 1-9/16 | 40 | 7/8 | 7/8 |
| 20151-6-8 | 3/8-18 | 1/2 | 13 | 2.99 | 76 | 1-1/2 | 38 | 7/8 | 1-1/16 |
| 20151-8-8 | 1/2-14 | 1/2 | 13 | 3.17 | 81 | 1-11/16 | 43 | 7/8 | 1-1/16 |
| 20151-12-12 | 3/4-14 | 3/4 | 19 | 3.42 | 87 | 1-3/4 | 44 | 1-1/8 | 1-3/8 |
| 20151-16-16 | 1-11-1/2 | 1 | 25 | 3.74 | 95 | 2-1/4 | 57 | 1-3/8 | 1-9/16 |

Construction: Steel.
Add "C" for Stainless Steel.

51 series field attachable couplings are not intended for use on hose that has previously been in service.



20351 Male (JIC) 37° - Rigid



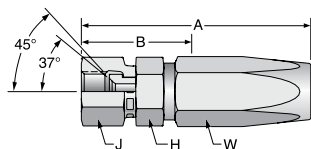
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|--------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 20351-4-3 | 7/16-20 | 3/16 | 5 | 1.88 | 48 | 1-1/8 | 29 | 1/2 | 5/8 |
| 20351-5-4 | 1/2-20 | 1/4 | 6 | 2.06 | 52 | 1-1/8 | 29 | 9/16 | 5/8 |
| 20351-6-5 | 9/16-18 | 5/16 | 8 | 2.16 | 55 | 1-5/16 | 33 | 5/8 | 3/4 |
| 20351-6-6 | 9/16-18 | 3/8 | 10 | 2.61 | 66 | 1-7/16 | 37 | 3/4 | 7/8 |
| 20351-8-6 | 3/4-16 | 3/8 | 10 | 2.71 | 69 | 1-7/16 | 37 | 13/16 | 7/8 |
| 20351-8-8 | 3/4-16 | 1/2 | 13 | 3.08 | 78 | 1-5/8 | 41 | 7/8 | 1-1/16 |

Construction: Steel.

Add "C" for Stainless Steel.

51 series field attachable couplings are not intended for use on hose that has previously been in service.

20651 SAE (JIC) 37° Swivel

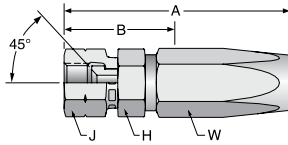


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|--------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| 20651-4-3 | 7/16-20 | 3/16 | 5 | 1.99 | 51 | 1-1/4 | 32 | 9/16 | 9/16 | 5/8 |
| 20651-4-4 | 7/16-20 | 1/4 | 6 | 2.18 | 55 | 1-1/4 | 32 | 9/16 | 9/16 | 5/8 |
| 20651-5-4 | 1/2-20 | 1/4 | 6 | 2.24 | 57 | 1-7/16 | 37 | 5/8 | 5/8 | 5/8 |
| 20651-6-4 | 9/16-18 | 1/4 | 6 | 2.34 | 59 | 1-7/16 | 37 | 11/16 | 11/16 | 5/8 |
| 20651-6-5 | 9/16-18 | 5/16 | 8 | 2.37 | 60 | 1-1/2 | 38 | 11/16 | 11/16 | 3/4 |
| 20651-6-6 | 9/16-18 | 3/8 | 10 | 2.74 | 70 | 1-7/16 | 37 | 11/16 | 11/16 | 7/8 |
| 20651-8-6 | 3/4-16 | 3/8 | 10 | 2.88 | 73 | 1-5/8 | 41 | 7/8 | 7/8 | 7/8 |
| 20651-8-8 | 3/4-16 | 1/2 | 13 | 3.25 | 83 | 1-3/4 | 44 | 7/8 | 7/8 | 1-1/16 |
| 20651-10-8 | 7/8-14 | 1/2 | 13 | 3.37 | 86 | 1-7/8 | 48 | 1 | 1 | 1-1/16 |
| 20651-12-12 | 1-1/16-12 | 3/4 | 19 | 3.75 | 95 | 2-1/8 | 54 | 1-1/4 | 1-1/4 | 1-3/8 |
| 20651-16-16 | 1-5/16-12 | 1 | 25 | 3.93 | 100 | 2-7/16 | 62 | 1-1/2 | 1-1/2 | 1-9/16 |

Construction: Steel.

Add "C" for Stainless Steel.

20851 SAE 45° Swivel



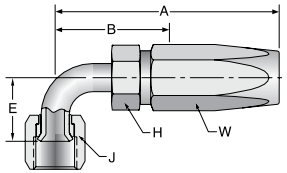
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| 20851-6-6 | 5/8-18 | 3/8 | 10 | 2.82 | 72 | 1-9/16 | 40 | 3/4 | 3/4 | 7/8 |

Construction: Steel.

Add "C" for Stainless Steel.

51 series field attachable couplings are not intended for use on hose that has previously been in service.

23951 JIC 37° Swivel 90° Elbow Short Drop

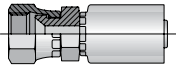
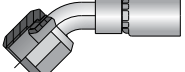
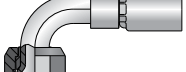
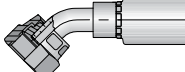
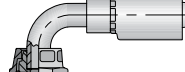
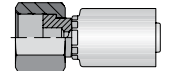
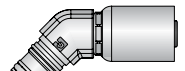
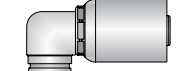
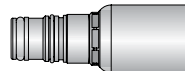



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|-------|-------|
| # | | | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| 23951-4-3 | 7/16-20 | 3/16 | 5 | 1.77 | 45 | 1 | 25 | 0.83 | 21 | 3/8 | 9/16 | 5/8 |
| 23951-6-6 | 9/16-18 | 3/8 | 10 | 2.70 | 69 | 1-7/16 | 37 | 0.85 | 22 | 9/16 | 11/16 | 7/8 |
| 23951-8-6 | 3/4-16 | 3/8 | 10 | 2.90 | 74 | 1-5/8 | 41 | 1.09 | 28 | 11/16 | 7/8 | 7/8 |

Construction: Steel.

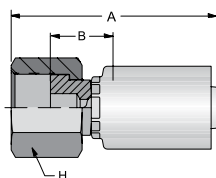
Add "C" for Stainless Steel.




54 Series Visual Index

| | | | | | |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 54 Series PERMANENT | 106 Female SAE (JIC) 37° Swivel  E-9 | 137 Female (JIC) 37° Swl, 45° Elbow  E-10 | 139 Female (JIC) 37° Swl, 90° Elbow  E-10 | 1J7 Female Seal-Lok™ 45° Elbow  E-9 | 1J9 Female Seal-Lok™ 90° Elbow  E-9 |
| | 1JC Female Seal-Lok™ Str. Short O-Ring  E-8 | 1WW Male Rapid Assembly, 45° Elb.  E-10 | 1WY Male Rapid Assembly, 90° Elb.  E-11 | 1WU Male Rapid Assembly, Straight  E-11 | |

| | |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 54 Series Adapter PERMANENT | 685RA Female Rapid Assy. Adapter Male SAE  E-11 |
| | |

1JC54 Female Seal-Lok™ Straight Short O-Ring Face Seal ISO 12151-1 SWSA



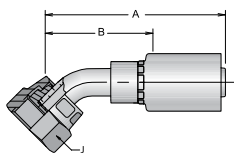
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|------|----|-----------------|----|---------------------------------------------------------------------------------------|
| # |  |  | | | | | |  |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1JC54-4-4 | 9/16-18 | 1/4 | 6 | 1.38 | 35 | 5/8 | 16 | 11/16 |
| 1JC54-6-6 | 11/16-16 | 3/8 | 10 | 1.58 | 40 | 9/16 | 14 | 13/16 |

Construction: Steel.

Add "C" for Stainless Steel

1J754 Female Seal-Lok™ 45° Elbow O-Ring Face Seal

ISO 12151-1 SWE45



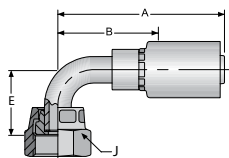
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1J754-4-4 | 9/16-18 | 1/4 | 6 | 2.16 | 55 | 1-3/8 | 35 | 11/16 |

Construction: Steel.

Add "C" for Stainless Steel.

1J954 Female Seal-Lok™ 90° Elbow O-Ring Face Seal Short Drop

ISO 12151-1 SWE90

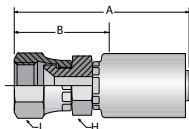


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J954-4-4 | 9/16-18 | 1/4 | 6 | 2.14 | 54 | 1-3/8 | 35 | 0.83 | 21 | 11/16 |
| 1J954-6-6 | 11/16-16 | 3/8 | 10 | 2.32 | 59 | 1-3/8 | 35 | 0.90 | 23 | 13/16 |

Construction: Steel.

Add "C" for Stainless Steel.

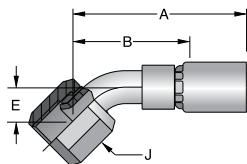
10654 Female SAE (JIC) 37° Swivel



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 10654-4-4 | 7/16-20 | 1/4 | 6 | 1.75 | 45 | 1 | 25 | 9/16 | 9/16 |
| 10654-6-6 | 9/16-18 | 3/8 | 10 | 2.13 | 54 | 1-3/16 | 30 | 11/16 | 11/16 |

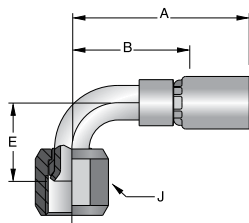
Construction: Steel.

Add "C" for Stainless Steel.

Hose
A**13754 Female JIC 37° Swivel 45° Elbow**

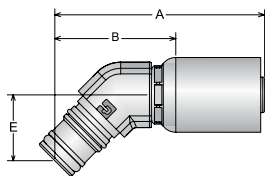
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 13754-4-4 | 7/16-20 | 1/4 | 6 | 2.08 | 53 | 1-1/4 | 32 | .33 | 8 | 9/16 |

Construction: Steel.
Add "C" for Stainless Steel.

Tubing
BCoiled Air Hose
& Fittings
C**13954 Female JIC 37° Swivel 90° Elbow Short Drop**

| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 13954-4-4 | 7/16-20 | 1/4 | 6 | 1.97 | 50 | 1-3/16 | 30 | .68 | 17 | 9/16 |
| 13954-6-6 | 9/16-18 | 3/8 | 10 | 2.30 | 59 | 1-5/8 | 41 | .85 | 22 | 11/16 |

Construction: Steel.
Add "C" for Stainless Steel.

Transportation
DFittings
Series 54
E**1WW54 Male Rapid Assembly - 45° Elbow**

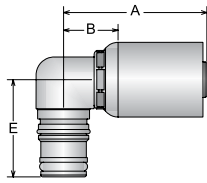
| Part Number | Stem O.D. | | Hose I.D. | | A | | Cutoff Allow. B | | E | |
|-------------|-----------|----|-----------|----|------|----|-----------------|----|------|----|
| # | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| 1WW54-4-4 | 1/4 | 6 | 1/4 | 6 | 1.97 | 50 | 1-3/16 | 30 | .67 | 17 |
| 1WW54-6-6 | 3/8 | 10 | 3/8 | 10 | 2.19 | 56 | 1-3/16 | 30 | .69 | 18 |

Construction: Brass nipple, steel plated shell, Nitrile o-ring.

NOTE: Use with mating adapter PN 685RA.

Tooling, Equipment
& Accessories
FGeneral Technical
G

1WY54 Male Rapid Assembly - 90° Elbow

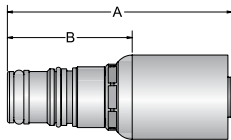


| Part Number | Stem O.D. | | Hose I.D. | | A | | Cutoff Allow. B | | E | |
|-------------|-----------|----|-----------|----|------|----|-----------------|----|------|----|
| # | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| 1WY54-4-4 | 1/4 | 6 | 1/4 | 6 | 1.27 | 32 | 1/2 | 13 | .90 | 23 |
| 1WY54-6-6 | 3/8 | 10 | 3/8 | 10 | 1.49 | 38 | 1/2 | 13 | 1.00 | 25 |

Construction: Brass nipple, steel plated shell, Nitrile o-ring.

NOTE: Use with mating adapter PN 685RA.

1WU54 Male Rapid Assembly - Straight

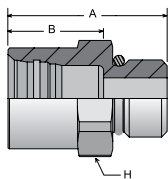


| Part Number | Stem O.D. | | Hose I.D. | | A | | Cutoff Allow. B | |
|-------------|-----------|----|-----------|----|------|----|-----------------|----|
| # | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm |
| 1WU54-4-4 | 1/4 | 6 | 1/4 | 6 | 1.85 | 47 | 1-1/16 | 27 |
| 1WU54-6-6 | 3/8 | 10 | 3/8 | 10 | 2.13 | 54 | 1-1/8 | 29 |

Construction: Brass nipple, steel plated shell, Nitrile o-ring.

NOTE: Use with mating adapter PN 685RA.

685RA Adapter Female Rapid Assembly - Male SAE Straight Thread ORB

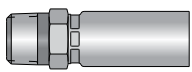
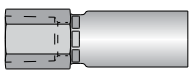
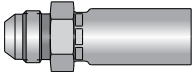
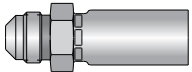
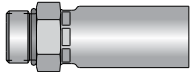
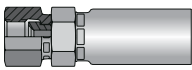
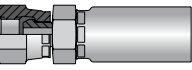
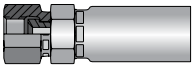
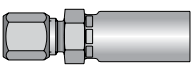
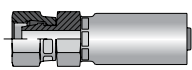
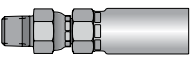
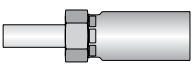
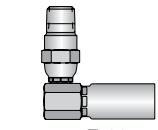
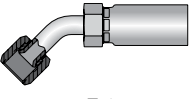
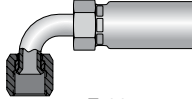
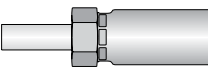
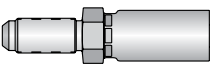
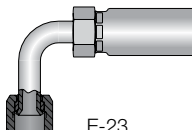
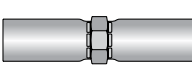
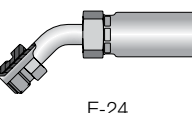
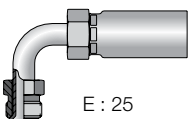
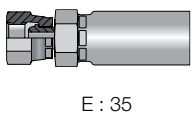
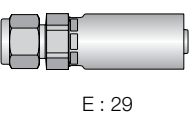
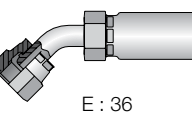
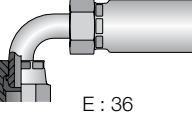
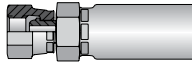
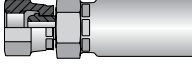

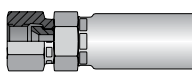
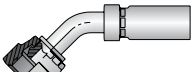
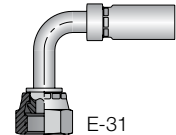
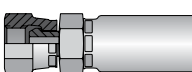
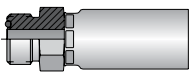
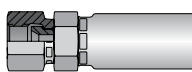
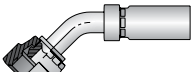
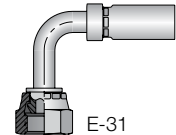
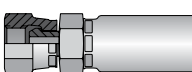
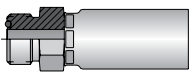


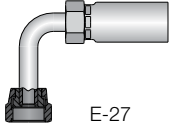
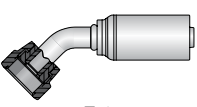
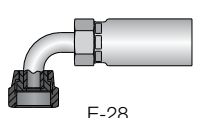
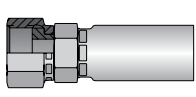
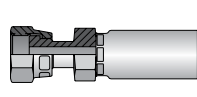
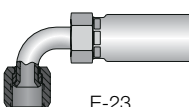
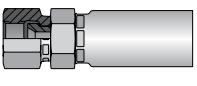
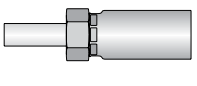
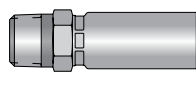
| Part Number | Tube O.D. | | Thread Size | A | | H Hex |
|-------------|-----------|----|-------------|------|----|-------|
| # | | | | | | |
| | inch | mm | | inch | mm | inch |
| 685RA-4-4 | 1/4 | 6 | 7/16-20 | 1.85 | 47 | 11/16 |
| 685RA-6-4 | 3/8 | 10 | 7/16-20 | 2.13 | 54 | 3/4 |
| 685RA-4-6 | 1/4 | 6 | 9/16-18 | 1.12 | 28 | 3/4 |
| 685RA-6-6 | 3/8 | 10 | 9/16-18 | 2.13 | 54 | 3/4 |

Construction: Brass nipple, Nitrile o-ring.

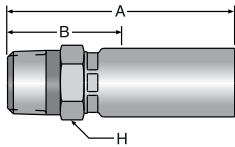
NOTE: Use with mating fittings 1WU54, 1WW54, 1WY54.


55/58 Series Visual Index

| | | | | | |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 55/58 Series PERMANENT | 101 Male Taper Pipe Rigid | 102 Female Taper Pipe Rigid | 103 Male (JIC) 37° | 104 Male SAE 45° | 105 Male Str. Thread O-Ring |
| |  E-13 |  E-14 |  E-14 |  E-15 |  E-16 |
| | 106 SAE (JIC) 37° Swivel | 107 Female Pipe Swivel | 108 Female SAE 45° Swivel | 111 Ferrul-Fix | 112 SAE Flareless Swivel |
| |  E-17 |  E-18 |  E-18 |  E-19 |  E-19 |
| | 113 Male Pipe Swivel | 11D Standpipe Light | 11L Male Pipe Swivel 90° Elbow | 137 FM JIC 37° Swivel 45° Elbow | 139 FM JIC 37° Swivel 90° Elbow |
| |  E-20 | METRIC  E-34 |  E-20 |  E-21 |  E-22 |
| | 13D Standpipe Heavy | 13E Male (JIC) 37° Long | 141 FM JIC 37° Swivel 90° Lg Elbow | 155 Hose Splicer | 167 SAE Male Inverted 45° Elbow |
| | METRIC  E-35 |  E-15 |  E-23 |  E-24 |  E-24 |
| | 169 SAE Male Inverted 90° Elbow | 192 Female BSP Pipe Swivel - Str. (60° Cone) | 1AL A-Lok® Compression | 1B1 Female BSP Pipe Swivel 45° Elb. (60° Cone) | 1B2 Female BSP Pipe Swivel 90° Elb. (60° Cone) |
| |  E : 25 |  E : 35 |  E : 29 |  E : 36 |  E : 36 |
| 1C6 Female Swivel DIN 20078 HW w/o O-Ring METRIC |  E-32 | 1C9 Female Swivel DIN 20078 HW O-Ring METRIC |  E-32 | 1D0 Male Stud DIN 20078 Light METRIC |  E-33 |
| |  E-30 |  E-31 |  E-31 |  E-30 |  E-26 |
| | 1FU (JIS)/BSP 30° Flare Female Swivel | 1G1 (JIS)/BSP 60° Cone FM Swivel 45° Elb. | 1G2 (JIS)/BSP 60° Cone FM Swivel 90° Elb. | 1GU (JIS)/BSP 60° Cone Female Swivel | 1J0 Male Seal-Lok™ Rigid Str. w/O-Ring |
| |  E-30 |  E-31 |  E-31 |  E-30 |  E-26 |

| | | | | | |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 55/58 Series PERMANENT | 1J1 Female Seal-Lok™ 90° Elbow Long  E-27 | 1J7 Female Seal-Lok™ 45° Elbow  E-27 | 1J9 Female Seal-Lok™ 90° Elbow  E-28 | 1JC Female Seal-Lok™ Straight Short  E-26 | 1JS Female Seal-Lok™ Straight  E-25 |
| | 1L9 FM JIC 37° Swivel 90° Elbow, SPL Drop  E-23 | 1MU (JIS) Metric 30° Flare Female Swivel  E-30 | 1TU Universal Tube Stub End  E-28 | 1UT Male (JIS)/BSPT  E-29 | |
| | | METRIC | | | |

10155/10158 Male Taper Pipe Rigid



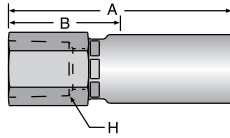
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----|------|-----|-----------------|----|--------------------------------------------------------------------------------------|
| # | # |  |  | | | | | |  |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch |
| 10155-2-3 | — | 1/8-27 | 3/16 | 5 | 1.94 | 49 | 1 | 25 | 9/16 |
| 10155-2-4 | 10158-2-4 | 1/8-27 | 1/4 | 6 | 2.13 | 54 | 1 | 25 | 5/8 |
| 10155-4-3 | — | 1/4-18 | 3/16 | 5 | 2.12 | 54 | 1-3/16 | 30 | 11/16 |
| 10155-4-4 | 10158-4-4 | 1/4-18 | 1/4 | 6 | 2.31 | 59 | 1-3/16 | 30 | 11/16 |
| 10155-4-5 | — | 1/4-18 | 5/16 | 8 | 2.37 | 60 | 1-3/16 | 30 | 11/16 |
| 10155-4-6 | 10158-4-6 | 1/4-18 | 3/8 | 10 | 2.66 | 68 | 1-5/16 | 33 | 3/4 |
| 10155-6-3 | — | 3/8-18 | 3/16 | 5 | 2.21 | 56 | 1-3/16 | 30 | 3/4 |
| 10155-6-4 | 10158-6-4 | 3/8-18 | 1/4 | 6 | 2.41 | 61 | 1-5/16 | 33 | 3/4 |
| 10155-6-5 | — | 3/8-18 | 5/16 | 8 | 2.47 | 63 | 1-5/16 | 33 | 3/4 |
| 10155-6-6 | 10158-6-6 | 3/8-18 | 3/8 | 10 | 2.66 | 68 | 1-5/16 | 33 | 3/4 |
| 10155-6-8 | 10158-6-8 | 3/8-18 | 1/2 | 13 | 2.85 | 72 | 1-5/16 | 33 | 7/8 |
| 10155-8-6 | 10158-8-6 | 1/2-14 | 3/8 | 10 | 2.91 | 74 | 1-9/16 | 40 | 15/16 |
| 10155-8-8 | 10158-8-8 | 1/2-14 | 1/2 | 13 | 3.09 | 78 | 1-9/16 | 40 | 15/16 |
| 10155-8-10 | 10158-8-10 | 1/2-14 | 5/8 | 16 | 3.20 | 81 | 1-1/2 | 38 | 1 |
| 10155-12-10 | — | 3/4-14 | 5/8 | 16 | 3.20 | 81 | 1-1/2 | 38 | 1-1/8 |
| 10155-12-12 | 10158-12-12 | 3/4-14 | 3/4 | 19 | 3.29 | 84 | 1-9/16 | 40 | 1-1/8 |
| 10155-16-16 | 10158-16-16 | 1-11-1/2 | 1 | 1 | 3.97 | 101 | 1-3/4 | 44 | 1-3/8 |

Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

10255/10258 Female Taper Pipe Rigid



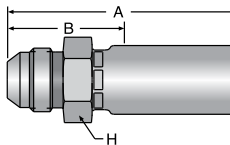
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|--------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch |
| 10255-4-4 | 10258-4-4 | 1/4-18 | 1/4 | 6 | 2.39 | 61 | 1-1/4 | 32 | 3/4 |
| 10255-6-4 | — | 3/8-18 | 1/4 | 6 | 2.60 | 66 | 1-1/2 | 38 | 7/8 |
| 10255-6-6 | 10258-6-6 | 3/8-18 | 3/8 | 10 | 2.84 | 72 | 1-1/2 | 38 | 7/8 |
| 10255-8-6 | — | 1/2-14 | 3/8 | 10 | 2.87 | 73 | 1-3/8 | 35 | 1-1/16 |
| 10255-8-8 | 10258-8-8 | 1/2-14 | 1/2 | 13 | 2.87 | 73 | 1-3/8 | 35 | 1-1/16 |

Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

10355/10358 Male (JIC) 37° - Rigid



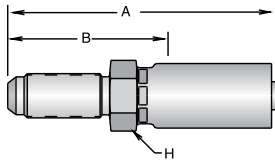
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch |
| 10355-4-3 | — | 7/16-20 | 3/16 | 5 | 2.17 | 55 | 1-3/16 | 30 | 9/16 |
| 10355-4-4 | 10358-4-4 | 7/16-20 | 1/4 | 6 | 2.31 | 58 | 1-3/16 | 30 | 5/8 |
| 10355-5-4 | — | 1/2-20 | 1/4 | 6 | 2.30 | 58 | 1-3/16 | 30 | 5/8 |
| 10355-5-5 | — | 1/2-20 | 5/16 | 8 | 2.30 | 58 | 1-3/16 | 30 | 5/8 |
| 10355-6-4 | — | 9/16-18 | 1/4 | 6 | 2.30 | 58 | 1-3/16 | 30 | 11/16 |
| 10355-6-5 | — | 9/16-18 | 5/16 | 8 | 2.30 | 58 | 1-3/16 | 30 | 11/16 |
| 10355-6-6 | 10358-6-6 | 9/16-18 | 3/8 | 10 | 2.65 | 67 | 1-1/4 | 32 | 3/4 |
| 10355-8-6 | 10358-8-6 | 3/4-16 | 3/8 | 10 | 2.68 | 68 | 1-3/8 | 35 | 13/16 |
| 10355-8-8 | 10358-8-8 | 3/4-16 | 1/2 | 13 | 2.87 | 73 | 1-3/8 | 35 | 7/8 |
| 10355-8-10 | 10358-8-10 | 3/4-16 | 5/8 | 16 | 3.10 | 79 | 1-7/16 | 36 | 1 |
| 10355-10-8 | 10358-10-8 | 7/8-14 | 1/2 | 13 | 3.03 | 77 | 1-9/16 | 40 | 15/16 |
| — | 10358-10-10 | 7/8-14 | 5/8 | 16 | 3.20 | 81 | 1-9/16 | 40 | 1 |
| 10355-12-10 | 10358-12-10 | 1-1/16-12 | 5/8 | 16 | 3.31 | 84 | 1-5/8 | 41 | 1-1/8 |
| 10355-12-12 | 10358-12-12 | 1-1/16-12 | 3/4 | 19 | 3.32 | 84 | 1-11/16 | 43 | 1-1/8 |
| 10355-16-16 | 10358-16-16 | 1-5/16-12 | 1 | 25 | 3.93 | 100 | 1-3/4 | 44 | 1-3/8 |

Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

13E55/13E58 Male (JIC) 37° Long



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch |
| 13E55-4-4 | — | 7/16-20 | 1/4 | 6 | 2.93 | 74 | 1-13/16 | 46 | 5/8 |
| 13E55-6-6 | — | 9/16-18 | 3/8 | 10 | 3.38 | 86 | 2 | 51 | 3/4 |
| 13E55-8-8 | — | 3/4-16 | 1/2 | 13 | 3.72 | 95 | 2-1/8 | 54 | 7/8 |

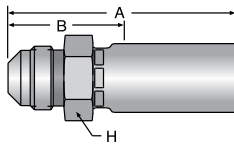
Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

NOTE: Bulkhead Locknut sold separately. WLN Locknuts are Manufactured by the Tube Fittings Division. Refer to Catalog 4300 for additional information.

10455/10458 Male SAE 45° - Rigid

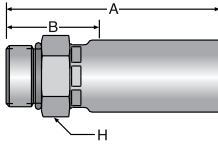


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch |
| 10455-4-3 | — | 7/16-20 | 3/16 | 5 | 2.06 | 52 | 1-1/8 | 29 | 9/16 |
| 10455-5-4 | — | 1/2-20 | 1/4 | 6 | 2.34 | 59 | 1-1/8 | 29 | 5/8 |
| 10455-6-5 | — | 5/8-18 | 5/16 | 8 | 2.55 | 65 | 1-1/4 | 32 | 3/4 |
| 10455-6-6 | 10458-6-6 | 5/8-18 | 3/8 | 10 | 2.74 | 70 | 1-1/4 | 32 | 3/4 |
| 10455-6-8 | — | 5/8-18 | 1/2 | 13 | 2.90 | 74 | 1-1/4 | 32 | 7/8 |
| 10455-8-8 | 10458-8-8 | 3/4-16 | 1/2 | 13 | 3.04 | 77 | 1-3/8 | 35 | 7/8 |
| 10455-12-12 | 10458-12-12 | 1-1/16-14 | 3/4 | 19 | 3.54 | 90 | 1-11/16 | 43 | 1-1/4 |

Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

A
Hose**10555/10558 Male Straight Thread O-Ring (BUNA N O-Ring included)**B
TubingC
Coiled Air Hose
& Fittings

| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch |
| 10555-4-3 | — | 7/16-20 | 3/16 | 4 | 1.98 | 50 | 1-1/8 | 29 | 9/16 |
| 10555-4-4 | — | 7/16-20 | 1/4 | 6 | 2.11 | 54 | 1 | 25 | 5/8 |
| 10555-4-5 | — | 7/16-20 | 5/16 | 8 | 2.11 | 54 | 1 | 25 | 5/8 |
| 10555-5-4 | 10558-5-4 | 1/2-20 | 3/8 | 10 | 2.11 | 54 | 1 | 25 | 5/8 |
| 10555-5-5 | — | 1/2-20 | 5/16 | 8 | 2.11 | 54 | 1 | 25 | 5/8 |
| 10555-6-3 | — | 9/16-18 | 3/8 | 10 | 1.89 | 48 | 1 | 25 | 11/16 |
| 10555-6-4 | 10558-6-4 | 9/16-18 | 3/8 | 10 | 2.14 | 54 | 1 | 25 | 11/16 |
| 10555-6-6 | 10558-6-6 | 9/16-18 | 3/8 | 10 | 2.42 | 61 | 1-1/8 | 29 | 3/4 |
| 10555-8-6 | — | 3/4-16 | 1/2 | 13 | 2.46 | 62 | 1-1/8 | 29 | 7/8 |
| 10555-8-8 | 10558-8-8 | 3/4-16 | 1/2 | 13 | 2.65 | 67 | 1-3/16 | 30 | 7/8 |
| 10555-10-8 | 10558-10-8 | 7/8-14 | 5/8 | 16 | 2.77 | 70 | 1-5/16 | 33 | 1 |

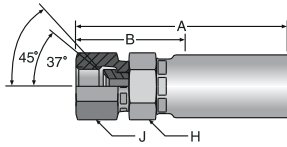
Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

D
TransportationE
Fittings
Series 55/58F
Tooling, Equipment
& AccessoriesG
General Technical

10655/10658 SAE (JIC) 37° Swivel



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|--------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | inch |
| 10655-3-3 | — | 3/8-24 | 3/16 | 5 | 2.23 | 57 | 1-5/16 | 33 | 9/16 | 9/16 |
| 10655-4-3 | — | 7/16-20 | 3/16 | 5 | 2.23 | 57 | 1-1/4 | 32 | 9/16 | 9/16 |
| 10655-5-3 | — | 1/2-20 | 3/16 | 5 | 2.24 | 57 | 1-1/4 | 32 | 9/16 | 5/8 |
| 10655-4-4 | 10658-4-4 | 7/16-20 | 1/4 | 6 | 2.36 | 60 | 1-3/16 | 30 | 5/8 | 9/16 |
| 10655-5-4 | 10658-5-4 | 1/2-20 | 1/4 | 6 | 2.43 | 62 | 1-1/4 | 32 | 5/8 | 5/8 |
| 10655-6-4 | 10658-6-4 | 9/16-18 | 1/4 | 6 | 2.45 | 62 | 1-5/16 | 33 | 5/8 | 11/16 |
| 10655-5-5 | 10658-5-5 | 1/2-20 | 5/16 | 8 | 2.46 | 62 | 1-1/4 | 32 | 5/8 | 5/8 |
| 10655-6-5 | 10658-6-5 | 9/16-18 | 5/16 | 8 | 2.48 | 63 | 1-1/4 | 32 | 5/8 | 11/16 |
| 10655-6-6 | 10658-6-6 | 9/16-18 | 3/8 | 10 | 2.70 | 69 | 1-5/16 | 33 | 11/16 | 11/16 |
| 10655-8-6 | 10658-8-6 | 3/4-16 | 3/8 | 10 | 2.89 | 73 | 1-1/2 | 38 | 11/16 | 7/8 |
| 10655-6-8 | 10658-6-8 | 9/16-18 | 1/2 | 13 | 2.96 | 75 | 1-3/8 | 35 | 7/8 | 11/16 |
| 10655-8-8 | 10658-8-8 | 3/4-16 | 1/2 | 13 | 3.08 | 78 | 1-1/2 | 38 | 7/8 | 7/8 |
| 10655-8-10 | 10658-8-10 | 3/4-16 | 5/8 | 16 | 3.30 | 84 | 1-5/8 | 41 | 1 | 15/16 |
| 10655-10-8 | 10658-10-8 | 7/8-14 | 1/2 | 13 | 3.12 | 79 | 1-5/8 | 41 | 7/8 | 1-1/16 |
| 10655-12-8 | 10658-12-8 | 1-1/16-12 | 1/2 | 13 | 3.21 | 82 | 1-3/4 | 44 | 1 | 1-1/4 |
| 10655-10-10 | 10658-10-10 | 7/8-14 | 5/8 | 16 | 3.30 | 84 | 1-5/8 | 41 | 1 | 1-1/16 |
| 10655-12-10 | 10658-12-10 | 1-1/16-12 | 5/8 | 16 | 3.40 | 86 | 1-3/4 | 44 | 1-1/8 | 1-5/16 |
| 10655-10-12 | 10658-10-12 | 7/8-14 | 3/4 | 19 | 3.36 | 85 | 1-11/16 | 43 | 1-1/8 | 1-1/16 |
| 10655-12-12 | 10658-12-12 | 1-1/16-12 | 3/4 | 19 | 3.40 | 86 | 1-3/4 | 44 | 1-1/8 | 1-1/4 |
| — | 10658-16-12 | 1-5/16-12 | 3/4 | 19 | 3.55 | 90 | 1-13/16 | 46 | 1-3/8 | 1-1/2 |
| 10655-16-16 | 10658-16-16 | 1-5/16-12 | 1 | 25 | 4.02 | 102 | 1-3/4 | 44 | 1-3/8 | 1-1/2 |

Construction: Steel.

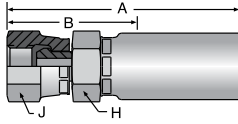
Add "B" for Brass.

Add "C" for Stainless Steel.

NOTE: Sizes -4, -5, -8 and -10 incorporate a dual seat.

A
Hose

10755/10758 Female Pipe Swivel



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | inch |
| 10755-4-4 | 10758-4-4 | 1/4-18 | 1/4 | 6 | 2.43 | 62 | 1-1/4 | 32 | 5/8 | 11/16 |
| 10755-4-5 | — | 1/4-18 | 5/16 | 8 | 2.39 | 61 | 1-3/16 | 30 | 11/16 | 11/16 |
| 10755-6-6 | 10758-6-6 | 3/8-18 | 3/8 | 10 | 2.61 | 66 | 1-3/16 | 30 | 11/16 | 7/8 |
| 10755-8-8 | 10758-8-8 | 1/2-14 | 1/2 | 13 | 2.93 | 74 | 1-5/16 | 33 | 7/8 | 1 |
| — | 10758-12-12 | 3/4-14 | 3/4 | 19 | 3.48 | 88 | 1-3/4 | 44 | 1-1/8 | 1-1/4 |
| 10755-16-16 | 10758-16-16 | 1-11-1/2 | 1 | 25 | 4.00 | 102 | 1-13/16 | 46 | 1-3/8 | 1-1/2 |

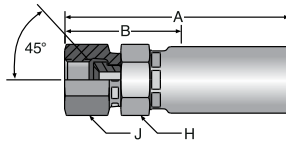
Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

B
TubingC
Coiled Air Hose
& FittingsD
Transportation

10855/10858 Female SAE 45° Swivel



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | inch |
| 10855-6-4 | — | 5/8-18 | 1/4 | 6 | 2.55 | 65 | 1-3/8 | 35 | 5/8 | 3/4 |
| 10855-6-5 | — | 5/8-18 | 5/16 | 8 | 2.61 | 66 | 1-3/8 | 35 | 5/8 | 3/4 |
| 10855-6-6 | 10858-6-6 | 5/8-18 | 3/8 | 10 | 2.75 | 70 | 1-5/16 | 33 | 3/4 | 3/4 |
| 10855-12-12 | 10858-12-12 | 1-1/16-14 | 3/4 | 19 | 3.40 | 86 | 1-11/16 | 43 | 1-1/8 | 1-1/4 |

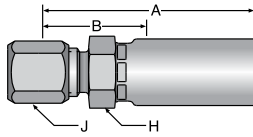
Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

E
Fittings
Series 55/58F
Tooling, Equipment
& AccessoriesG
General Technical

11155/11158 Ferrul-Fix (Nut and Sleeve included)



| Part Number | Part Number | Thread Size | Tube O.D. | | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|-----------|----|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 11155-6-4 | — | 9/16-18 | 3/8 | 10 | 1/4 | 6 | 2.34 | 59 | 1-1/8 | 32 | 11/16 | 11/16 |
| 11155-6-6 | — | 9/16-18 | 3/8 | 10 | 3/8 | 10 | 2.53 | 64 | 1-1/8 | 32 | 3/4 | 11/16 |
| 11155-8-6 | — | 3/4-16 | 1/2 | 13 | 3/8 | 10 | 2.63 | 67 | 1-5/16 | 33 | 7/8 | 7/8 |

Construction: Steel.

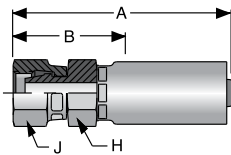
Add "C" for Stainless Steel.

"Ferrul-Fix" affords salvaging of bent tube section of combination tube-hose assemblies and quick, easy repair on the job. See page G-29 for Ferrule-Fix installation instructions.

NOTE: Nut Part Number is 111-size.
Sleeve Part Number is 110-size.

Nut and Sleeve are Manufactured by the Tube Fittings Division. Refer to Catalog 4300 for additional information.

11255/11258 SAE Flareless Swivel



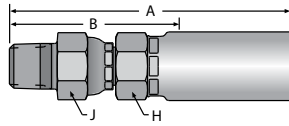
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | inch |
| 11255-6-4 | — | 9/16-18 | 1/4 | 6 | 2.62 | 67 | 1-1/2 | 38 | 11/16 | 3/4 |
| 11255-6-6 | — | 9/16-18 | 3/8 | 10 | 2.82 | 72 | 1-1/2 | 38 | 3/4 | 3/4 |
| 11255-8-6 | — | 3/4-16 | 3/8 | 10 | 2.92 | 74 | 1-5/8 | 41 | 7/8 | 15/16 |

Construction: Steel.

Add "B" for Brass.

Add "C" for Stainless Steel.

11355/11358 Male Pipe Swivel*



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | inch |
| 11355-4-3 | — | 1/4-18 | 3/16 | 5 | 2.72 | 69 | 1-3/4 | 44 | 5/8 | 11/16 |
| 11355-4-4 | 11358-4-4 | 1/4-18 | 1/4 | 6 | 2.84 | 72 | 1-3/4 | 44 | 5/8 | 11/16 |
| 11355-4-5 | — | 1/4-18 | 5/16 | 8 | 2.84 | 72 | 1-3/4 | 44 | 5/8 | 11/16 |
| 11355-6-6 | 11358-6-6 | 3/8-18 | 3/8 | 10 | 3.12 | 79 | 1-13/16 | 46 | 3/4 | 3/4 |
| 11355-8-6 | — | 1/2-14 | 3/8 | 10 | 3.37 | 86 | 2-1/16 | 52 | 3/4 | 15/16 |
| 11355-8-8 | 11358-8-8 | 1/2-14 | 1/2 | 13 | 3.56 | 90 | 2-1/16 | 52 | 7/8 | 15/16 |
| 11355-12-12 | 11358-12-12 | 3/4-14 | 3/4 | 19 | 3.81 | 97 | 2-1/8 | 54 | 1-1/8 | 1-1/8 |
| 11355-16-16 | 11358-16-16 | 1-11-1/2 | 1 | 25 | 5.06 | 129 | 2-13/16 | 71 | 1-1/2 | 1-1/2 |

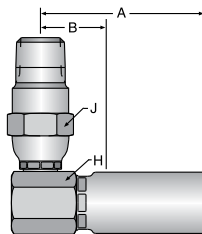
Construction: Steel.

Add "C" for Stainless Steel.

NOTE: *For use with petroleum based fluids.

WARNING: Fittings allow minor movement to relieve stress on hose but are not recommended for continued or extensive swiveling. Not recommended for use in CNG applications.

11L55/11L58 Male Pipe Swivel 90° Elbow*



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | inch |
| 11L55-4-4 | — | 1/4-18 | 1/4 | 6 | 1.94 | 49 | 13/16 | 21 | 11/16 | 11/16 |

Construction: Steel.

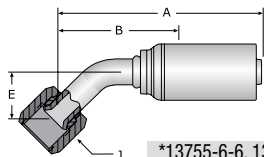
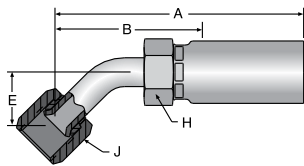
Add "C" for Stainless Steel.

*For use with petroleum based fluids.

NOTE: Use crimp Die Ring 80C-R1L with Parkrimp 1 Machine; crimp Die Ring 82C-R1L with KarryKrimp or Minikrimp.

WARNING: Fittings allow minor movement under pressure to relieve stress on hose but are not recommended for continued or extensive swiveling. Fittings not recommended for use in CNG applications.

13755/13758 Female JIC 37° Swivel 45° Elbow



*13755-6-6, 13755-8-6, 13755-8-8 and 13758-8-8

| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|--------|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 13755-4-3 | — | 7/16-20 | 3/16 | 5 | 2.49 | 63 | 1-1/2 | 38 | 0.33 | 8 | 9/16 | 9/16 |
| 13755-4-4 | 13758-4-4 | 7/16-20 | 1/4 | 6 | 2.49 | 63 | 1-1/2 | 38 | 0.33 | 8 | 5/8 | 9/16 |
| 13755-5-4 | — | 1/2-20 | 1/4 | 6 | 2.49 | 63 | 1-1/2 | 38 | 0.36 | 9 | 5/8 | 5/8 |
| 13755-6-5 | — | 9/16-18 | 5/16 | 8 | 2.73 | 69 | 1-9/16 | 40 | 0.39 | 10 | 5/8 | 11/16 |
| 13755-6-6* | 13758-6-6 | 9/16-18 | 3/8 | 10 | 2.91 | 74 | 1-9/16 | 40 | 0.39 | 10 | 3/4 | 11/16 |
| 13755-8-6* | 13758-8-6 | 3/4-16 | 3/8 | 10 | 3.18 | 81 | 1-13/16 | 46 | 0.55 | 14 | 3/4 | 7/8 |
| 13755-8-8* | 13758-8-8* | 3/4-16 | 1/2 | 13 | 3.37 | 86 | 1-13/16 | 46 | 0.55 | 14 | 7/8 | 7/8 |
| 13755-10-8 | 13758-10-8 | 7/8-14 | 1/2 | 13 | 3.42 | 87 | 1-7/8 | 48 | 0.63 | 16 | 7/8 | 1 |
| — | 13758-10-10 | 7/8-14 | 5/8 | 16 | 3.44 | 87 | 1-3/4 | 44 | 0.64 | 16 | 1-1/16 | 1 |
| 13755-12-12 | 13758-12-12 | 1-1/16-12 | 3/4 | 19 | 4.05 | 103 | 2-3/8 | 60 | 0.78 | 20 | 1-1/8 | 1-1/4 |
| 13755-16-16 | 13758-16-16 | 1-5/16-12 | 1 | 25 | 4.57 | 116 | 2-5/16 | 59 | 0.89 | 23 | 1-3/8 | 1-1/2 |

Construction: Steel.

Add "C" for Stainless Steel.

NOTE: *Part number 13755-6-6, 13755-8-6, 13755-8-8 and 13758-8-8 do not have a "H" hex.

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

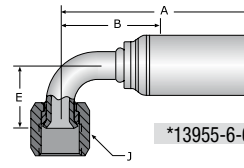
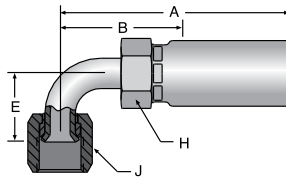
Fittings
Series 55/58
E

Tooling, Equipment
& Accessories
F

General Technical
G



13955/13958 Female JIC 37° Swivel 90° Elbow Short Drop



*13955-6-6, 13955-8-6, 13955-8-8 and 13958-8-8

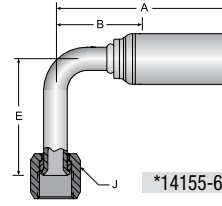
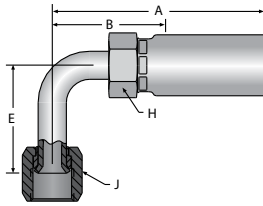
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|--------|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 13955-4-3 | — | 7/16-20 | 3/16 | 5 | 2.49 | 63 | 1-3/8 | 35 | 0.68 | 17 | 9/16 | 9/16 |
| 13955-4-4 | 13958-4-4 | 7/16-20 | 1/4 | 6 | 2.49 | 63 | 1-3/8 | 35 | 0.68 | 17 | 5/8 | 9/16 |
| 13955-5-4 | — | 1/2-20 | 1/4 | 6 | 2.49 | 63 | 1-9/16 | 40 | 0.77 | 20 | 5/8 | 5/8 |
| 13955-6-4 | — | 9/16-18 | 1/4 | 6 | 2.57 | 65 | 1-9/16 | 36 | 0.85 | 22 | 5/8 | 11/16 |
| 13955-6-5 | — | 9/16-18 | 5/16 | 8 | 2.73 | 69 | 1-1/2 | 38 | 0.85 | 22 | 5/8 | 11/16 |
| 13955-6-6* | 13958-6-6 | 9/16-18 | 3/8 | 10 | 2.91 | 74 | 1-1/2 | 38 | 0.91 | 23 | 11/16 | 11/16 |
| 13955-8-6* | 13958-8-6 | 3/4-16 | 3/8 | 10 | 3.18 | 81 | 1-9/16 | 40 | 1.14 | 29 | 3/4 | 7/8 |
| 13955-8-8* | 13958-8-8* | 3/4-16 | 1/2 | 13 | 3.37 | 86 | 1-5/8 | 41 | 1.09 | 28 | 7/8 | 7/8 |
| 13955-10-8 | 13958-10-8 | 7/8-14 | 1/2 | 13 | 3.42 | 87 | 1-3/4 | 44 | 1.23 | 31 | 7/8 | 1 |
| — | 13958-10-10 | 7/8-14 | 5/8 | 16 | 3.28 | 83 | 1-5/8 | 41 | 1.23 | 31 | 1-1/16 | 1 |
| 13955-12-12 | 13958-12-12 | 1-1/16-12 | 3/4 | 19 | 4.05 | 103 | 2-1/4 | 57 | 1.81 | 46 | 1-1/8 | 1-1/4 |
| 13955-16-16 | 13958-16-16 | 1-5/16-12 | 1 | 25 | 4.57 | 116 | 2-9/16 | 65 | 2.14 | 54 | 1-3/8 | 1-1/2 |

Construction: Steel.

Add "C" for Stainless Steel.

NOTE: *Part number 13955-6-6, 13955-8-6, 13955-8-8 and 13958-8-8 do not have a "H" hex.

14155/14158 Female JIC 37° Swivel 90° Elbow Long Drop



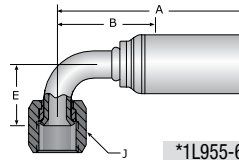
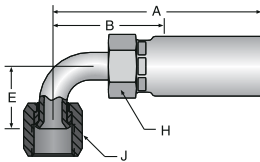
*14155-6-6, 14155-8-6, 14155-8-8 and 14158-8-8

| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|------|-----|-------|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 14155-4-3 | — | 7/16-20 | 3/16 | 5 | 2.37 | 60 | 1-3/8 | 35 | 1.80 | 46 | 9/16 | 9/16 |
| 14155-4-4 | — | 7/16-20 | 1/4 | 6 | 2.57 | 65 | 1-7/16 | 36 | 1.80 | 46 | 5/8 | 9/16 |
| 14155-5-4 | — | 1/2-20 | 1/4 | 6 | 2.51 | 64 | 1-3/8 | 35 | 1.80 | 46 | 5/8 | 5/8 |
| 14155-6-5 | — | 9/16-18 | 5/16 | 8 | 2.73 | 69 | 1-9/16 | 40 | 2.18 | 55 | 5/8 | 11/16 |
| 14155-6-6* | 14158-6-6 | 9/16-18 | 3/8 | 10 | 2.92 | 74 | 1-9/16 | 40 | 2.13 | 54 | 11/16 | 11/16 |
| 14155-8-6* | 14158-8-6 | 3/4-16 | 3/8 | 10 | 3.00 | 76 | 1-5/8 | 41 | 2.52 | 64 | 3/4 | 7/8 |
| 14155-8-8* | 14158-8-8* | 3/4-16 | 1/2 | 13 | 3.18 | 81 | 1-5/8 | 41 | 2.43 | 62 | 7/8 | 7/8 |
| 14155-10-8 | 14158-10-8 | 7/8-14 | 1/2 | 13 | 3.39 | 86 | 1-13/16 | 46 | 2.57 | 65 | 7/8 | 1 |
| 14155-12-12 | 14158-12-12 | 1-1/16-12 | 3/4 | 19 | 3.91 | 99 | 2-3/16 | 56 | 3.73 | 95 | 1-1/8 | 1-1/4 |
| 14155-16-16 | 14158-16-16 | 1-5/16-12 | 1 | 25 | 4.62 | 117 | 2-3/8 | 60 | 4.33 | 110 | 1-3/8 | 1-1/2 |

Construction: Steel. Add "C" for Stainless Steel.

NOTE: *Part number 14155-6-6, 14155-8-6, 14155-8-8 and 14158-8-8 do not have a "H" hex.

1L955/1L958 Female JIC 37° Swivel 90° Elbow Special Drop



*1L955-6-6, 1L955-8-6, 1L955-8-8 and 1L958-8-8

| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 1L955-4-3 | — | 7/16-20 | 3/16 | 5 | 2.31 | 59 | 1-3/8 | 35 | 0.88 | 22 | 9/16 | 9/16 |
| 1L955-4-4 | — | 7/16-20 | 1/4 | 6 | 2.47 | 63 | 1-3/8 | 35 | 0.88 | 22 | 5/8 | 9/16 |
| 1L955-5-4 | — | 1/2-20 | 1/4 | 6 | 2.53 | 64 | 1-7/16 | 36 | 0.88 | 22 | 5/8 | 5/8 |
| 1L955-6-5 | — | 9/16-18 | 5/16 | 8 | 2.69 | 68 | 1-1/2 | 38 | 1.12 | 28 | 5/8 | 11/16 |
| 1L955-6-6* | 1L958-6-6 | 9/16-18 | 3/8 | 10 | 2.88 | 73 | 1-7/16 | 36 | 1.50 | 38 | 11/16 | 11/16 |
| 1L955-8-6* | 1L958-8-6 | 3/4-16 | 3/8 | 10 | 3.00 | 76 | 1-5/8 | 41 | 1.61 | 41 | 3/4 | 7/8 |
| 1L955-8-8* | 1L958-8-8* | 3/4-16 | 1/2 | 13 | 3.19 | 81 | 1-5/8 | 41 | 1.38 | 35 | 7/8 | 7/8 |
| 1L955-10-8 | 1L958-10-8 | 7/8-14 | 1/2 | 13 | 3.68 | 93 | 2-1/8 | 54 | 1.75 | 44 | 7/8 | 1 |
| 1L955-12-12 | 1L958-12-12 | 1-1/16-12 | 3/4 | 19 | 4.29 | 109 | 2-1/2 | 64 | 2.06 | 52 | 1-1/8 | 1-1/4 |
| 1L955-16-16 | 1L958-16-16 | 1-5/16-12 | 1 | 25 | 5.14 | 131 | 2-3/4 | 70 | 2.50 | 64 | 1-3/8 | 1-1/2 |

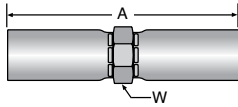
Construction: Steel. Add "C" for Stainless Steel.

NOTE: *Part number 1L955-6-6, 1L955-8-6, 1L955-8-8 and 1L958-8-8 do not have a "H" hex.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

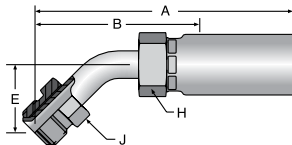
15555/15558 Hose Splicer



| 55 Series | 58 Series | Hose I.D. | | A | | W Hex |
|-------------|-------------|-----------|----|------|-----|--------|
| # | # | | | | | |
| Part Number | Part Number | inch | mm | inch | mm | inch |
| 15555-4-4 | 15558-4-4 | 1/4 | 6 | 3.25 | 83 | 11/16 |
| 15555-5-5 | 15558-5-5 | 5/16 | 8 | 3.25 | 83 | 3/4 |
| 15555-6-6 | 15558-6-6 | 3/8 | 10 | 3.62 | 92 | 13/16 |
| 15555-8-8 | 15558-8-8 | 1/2 | 13 | 4.00 | 102 | 1 |
| 15555-12-12 | 15558-12-12 | 3/4 | 19 | 4.50 | 114 | 1-5/16 |
| 15555-16-16 | 15558-16-16 | 1 | 25 | 5.54 | 141 | 1-9/16 |

Construction: Steel

16755/16758 SAE Male Inverted Swivel 45° Elbow

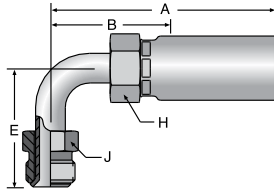






| 55 Series | 58 Series | Thread Size | Tube O.D. | | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|-----------|----|------|----|-----------------|----|------|----|-------|-------|
| # | # | | | | | | | | | | | | | |
| Part Number | Part Number | | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 16755-6-6 | — | 5/8-18 | 3/8 | 10 | 3/8 | 10 | 3.48 | 88 | 2-1/8 | 54 | 0.94 | 24 | 3/4 | 5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

16955/16958 SAE Male Inverted Swivel 90° Elbow

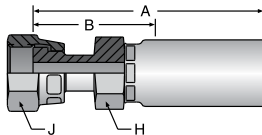






| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|------|----|-----------------|----|------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| # | # |  |  | | | | | | | |  |  |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 16955-6-6 | — | 5/8-18 | 3/8 | 10 | 3.48 | 88 | 1-3/4 | 27 | 1.69 | 43 | 3/4 | 5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

1JS55/1JS58 Female Seal-Lok™ Straight ISO 12151-1-SWSB



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|------|----|-----------------|----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| # | # |  |  | | | | | |  |  |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1JS55-4-3 | — | 9/16-18 | 3/16 | 5 | 2.23 | 57 | 1-1/4 | 32 | 9/16 | 11/16 |
| 1JS55-4-4 | — | 9/16-18 | 1/4 | 6 | 2.42 | 61 | 1-1/4 | 32 | 5/8 | 11/16 |
| 1JS55-6-4 | — | 11/16-16 | 1/4 | 6 | 2.48 | 63 | 1-1/4 | 32 | 11/16 | 13/16 |
| 1JS55-6-5 | — | 11/16-16 | 5/16 | 8 | 2.54 | 65 | 1-5/16 | 33 | 11/16 | 13/16 |
| 1JS55-6-6 | 1JS58-6-6 | 11/16-16 | 3/8 | 10 | 2.73 | 69 | 1-5/16 | 33 | 11/16 | 13/16 |
| 1JS55-8-6 | — | 13/16-16 | 3/8 | 10 | 3.00 | 76 | 1-5/8 | 41 | 7/8 | 15/16 |
| 1JS55-8-8 | 1JS58-8-8 | 13/16-16 | 1/2 | 13 | 3.20 | 81 | 1-5/8 | 41 | 7/8 | 15/16 |
| 1JS55-10-10 | 1JS58-10-10 | 1-14 | 5/8 | 16 | 3.53 | 90 | 1-7/8 | 48 | 1-1/8 | 1-1/8 |
| 1JS55-12-12 | 1JS58-12-12 | 1-3/16-12 | 3/4 | 19 | 3.75 | 95 | 2 | 51 | 1-1/4 | 1-3/8 |

Construction: Steel.

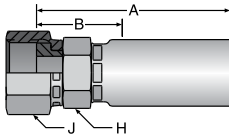
Add "C" for Stainless Steel.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



1JC55/1JC58 Female Seal-Lok™ Straight - Swivel - Short ISO 12151-1-SWSA

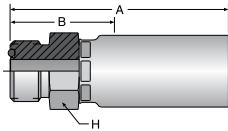


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|--------------|-------------|-----------|----|------|----|-----------------|----|-----------|-----------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch (mm) | inch (mm) |
| 1JC55-4-3 | — | 9/16-18 | 3/16 | 5 | 1.88 | 48 | 15/16 | 24 | 9/16 | 11/16 |
| 1JC55-4-4 | 1JC58-4-4 | 9/16-18 | 1/4 | 6 | 2.16 | 55 | 1-1/16 | 25 | 5/8 | 11/16 |
| 1JC55-6-4 | 1JC58-6-4 | 11/16-16 | 1/4 | 6 | 2.22 | 56 | 1-1/16 | 27 | 11/16 | 13/16 |
| 1JC55-4-5 | 1JC58-4-5 | 9/16-18 | 5/16 | 8 | 2.22 | 56 | 1 | 27 | 5/8 | 11/16 |
| 1JC55-6-5 | 1JC58-6-5 | 11/16-16 | 5/16 | 8 | 2.28 | 58 | 1-1/16 | 27 | 11/16 | 13/16 |
| 1JC55-6-6 | 1JC58-6-6 | 11/16-16 | 3/8 | 10 | 2.47 | 63 | 1-1/16 | 27 | 11/16 | 13/16 |
| 1JC55-6-6-SM | 1JC58-6-6-SM | 11/16-16 | 3/8 | 10 | 2.47 | 63 | 1-1/16 | 27 | (19) | (22) |
| 1JC55-8-6 | 1JC58-8-6 | 13/16-16 | 3/8 | 10 | 2.56 | 65 | 1-3/16 | 30 | 7/8 | 15/16 |
| 1JC55-8-6-SM | 1JC58-8-6-SM | 13/16-16 | 3/8 | 10 | 2.56 | 65 | 1-3/16 | 30 | (24) | (24) |
| 1JC55-8-8 | 1JC58-8-8 | 13/16-16 | 1/2 | 13 | 2.75 | 70 | 1-3/16 | 30 | 7/8 | 15/16 |
| 1JC55-10-8 | 1JC58-10-8 | 1-14 | 1/2 | 13 | 2.95 | 75 | 1-3/8 | 35 | 1-1/8 | 1-1/8 |
| — | 1JC58-10-10 | 1-14 | 5/8 | 16 | 3.05 | 77 | 1-3/8 | 35 | 1-1/8 | 1-1/8 |
| 1JC55-10-12 | 1JC58-10-12 | 1-14 | 3/4 | 19 | 3.15 | 80 | 1-3/8 | 35 | 1-1/8 | 1-1/8 |
| 1JC55-12-8 | — | 1-3/16-12 | 1/2 | 13 | 3.00 | 76 | 1-7/16 | 36 | 1-1/4 | 1-3/8 |
| 1JC55-12-10 | 1JC58-12-10 | 1-3/16-12 | 5/8 | 16 | 3.10 | 79 | 1-7/16 | 36 | 1-1/4 | 1-3/8 |
| 1JC55-12-12 | 1JC58-12-12 | 1-3/16-12 | 3/4 | 19 | 3.20 | 81 | 1-7/16 | 36 | 1-1/4 | 1-3/8 |
| 1JC55-16-16 | 1JC58-16-16 | 1-7/16-12 | 1 | 25 | 3.74 | 95 | 1-1/2 | 38 | 1-1/2 | 1-5/8 |
| — | 1JC58-20-16 | 1-11/16-12 | 1 | 25 | 3.78 | 96 | 1-9/16 | 40 | 1-5/8 | 1-3/8 |

Construction: Steel.

Add "C" for Stainless Steel.

1J055/1J058 Male Seal-Lok™ Rigid Straight (with Buna N O-Ring) ISO 12151-1-S

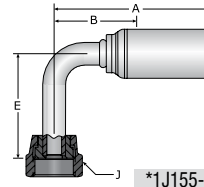
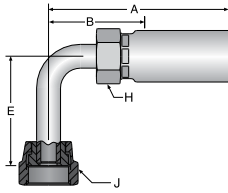


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|--------------|--------------|-------------|-----------|----|------|----|-----------------|----|-----------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch (mm) |
| 1J055-4-4 | — | 9/16-18 | 1/4 | 6 | 2.20 | 56 | 1-1/16 | 27 | 5/8 |
| 1J055-4-4-SM | — | 9/16-18 | 1/4 | 6 | 2.20 | 56 | 1-1/16 | 27 | (19) |
| 1J055-6-6 | 1J058-6-6 | 11/16-16 | 3/8 | 10 | 2.53 | 63 | 1-1/8 | 29 | 3/4 |
| 1J055-6-6-SM | 1J058-6-6-SM | 11/16-16 | 3/8 | 10 | 2.47 | 63 | 1-1/8 | 29 | (19) |
| 1J055-8-6 | — | 13/16-16 | 3/8 | 10 | 2.56 | 65 | 1-1/4 | 32 | 7/8 |
| 1J055-8-6-SM | — | 13/16-16 | 3/8 | 10 | 2.56 | 65 | 1-1/4 | 32 | (24) |
| 1J055-8-8 | 1J058-8-8 | 13/16-16 | 1/2 | 13 | 2.75 | 70 | 1-1/4 | 32 | 15/16 |
| 1J055-8-8-SM | 1J058-8-8-SM | 13/16-16 | 1/2 | 13 | 2.75 | 70 | 1-1/4 | 32 | (24) |

Construction: Steel.

Add "C" for Stainless Steel.

1J155/1J158 Female Seal-Lok™ Swivel 90° Elbow Long Drop ISO 12151-1-SWEL90



*1J155-6-6, 1J155-8-6, 1J155-8-8 and 1J158-8-8

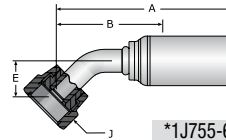
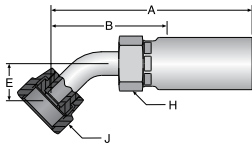
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|------|-----|--------|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 1J155-4-3 | — | 9/16-18 | 3/16 | 5 | 2.30 | 58 | 1-5/16 | 33 | 1.80 | 46 | 9/16 | 11/16 |
| 1J155-4-4 | — | 9/16-18 | 1/4 | 6 | 2.45 | 62 | 1-5/16 | 46 | 1.80 | 46 | 9/16 | 11/16 |
| 1J155-6-6* | 1J158-6-6 | 11/16-16 | 3/8 | 10 | 2.94 | 75 | 1-3/4 | 44 | 2.13 | 54 | 11/16 | 13/16 |
| 1J155-8-6* | — | 13/16-16 | 3/8 | 10 | 2.94 | 75 | 1-5/8 | 41 | 2.52 | 64 | 3/4 | 15/16 |
| 1J155-8-8* | 1J158-8-8* | 13/16-16 | 1/2 | 13 | 3.21 | 82 | 1-11/16 | 43 | 2.52 | 64 | 7/8 | 15/16 |
| — | 1J158-10-10 | 1-14 | 5/8 | 16 | 3.35 | 85 | 1-11/16 | 43 | 2.76 | 70 | 1-1/16 | 1-1/8 |
| 1J155-12-12 | 1J158-12-12 | 1-3/16-12 | 3/4 | 19 | 3.86 | 98 | 2-1/8 | 54 | 3.78 | 96 | 1-1/8 | 1-3/8 |
| 1J155-16-16 | 1J158-16-16 | 1-7/16-12 | 1 | 25 | 4.42 | 112 | 2-3/8 | 60 | 4.50 | 114 | 1-3/8 | 1-5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

NOTE: *Part number 1J155-6-6, 1J155-8-6, 1J155-8-8 and 1J158-8-8 do not have a "H" hex.

1J755/1J758 Female Seal-Lok™ Swivel 45° Elbow ISO 12151-1-SWE45



*1J755-6-6, 1J755-8-6, 1J755-8-8 and 1J758-8-88

| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|--------|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 1J755-4-4 | 1J758-4-4 | 9/16-18 | 1/4 | 6 | 2.66 | 68 | 1-1/2 | 38 | 0.41 | 10 | 5/8 | 11/16 |
| 1J755-6-4 | — | 11/16-16 | 1/4 | 6 | 2.74 | 70 | 1-5/8 | 41 | 0.43 | 11 | 5/8 | 13/16 |
| 1J755-6-6* | 1J758-6-6 | 11/16-16 | 3/8 | 10 | 2.98 | 76 | 1-5/8 | 43 | 0.43 | 11 | 3/4 | 13/16 |
| 1J755-8-6* | — | 13/16-16 | 3/8 | 10 | 3.23 | 82 | 1-7/8 | 48 | 0.59 | 15 | 3/4 | 15/16 |
| 1J755-8-8* | 1J758-8-8* | 13/16-16 | 1/2 | 13 | 3.43 | 87 | 1-15/16 | 49 | 0.59 | 15 | 7/8 | 15/16 |
| — | 1J758-10-10 | 1-14 | 5/8 | 16 | 3.56 | 90 | 1-7/8 | 48 | 0.65 | 17 | 1-1/16 | 1 |
| 1J755-12-12 | 1J758-12-12 | 1-3/16-12 | 3/4 | 19 | 3.67 | 93 | 2 | 51 | 0.81 | 21 | 1-1/8 | 1-3/8 |
| 1J755-16-16 | 1J758-16-16 | 1-7/16-12 | 1 | 25 | 5.10 | 130 | 2-7/8 | 73 | 0.94 | 24 | 1-3/8 | 1-5/8 |

Construction: Steel.

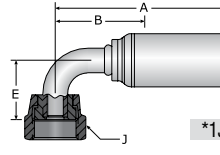
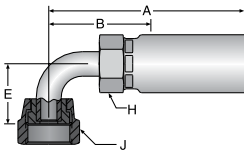
Add "C" for Stainless Steel.

NOTE: *Part number 1J755-6-6, 1J755-8-6, 1J755-8-8 and 1J758-8-8 do not have a "H" hex.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

1J955/1J958 Female Seal-Lok™ Swivel 90° Elbow Short Drop ISO 12151-1-SWES90



*1J955-6-6, 1J955-8-6 and 1J958-8-8

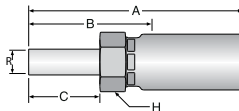
| Part Number | Part Number | Thread Size | Hose I.D. | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----------|--|-----------------|--|---------|--|--------|-------|
| # | # | | | | | | | | | | |
| 55 Series | 58 Series | | inch mm | inch mm | | inch mm | | inch mm | | inch | inch |
| 1J955-4-4 | — | 9/16-18 | 1/4 6 | 2.49 63 | | 1-3/8 35 | | 0.82 21 | | 5/8 | 11/16 |
| 1J955-6-4 | — | 11/16-16 | 1/4 6 | 2.59 66 | | 1-7/16 36 | | 0.90 23 | | 5/8 | 13/16 |
| 1J955-6-5 | — | 11/16-16 | 5/16 8 | 2.66 68 | | 1-1/2 38 | | 0.90 23 | | 5/8 | 13/16 |
| 1J955-6-6* | 1J958-6-6 | 11/16-16 | 3/8 10 | 2.85 72 | | 1-1/2 38 | | 0.91 23 | | 3/4 | 13/16 |
| 1J955-8-6* | — | 13/16-16 | 1/2 13 | 3.15 80 | | 1-5/8 41 | | 1.14 29 | | 3/4 | 15/16 |
| — | 1J958-8-8* | 13/16-16 | 1/2 13 | 3.15 80 | | 1-5/8 41 | | 1.14 29 | | 7/8 | 15/16 |
| — | 1J958-10-10 | 1-14 | 5/8 16 | 3.26 83 | | 1-5/8 41 | | 1.27 32 | | 1-1/16 | 1 |
| 1J955-12-12 | 1J958-12-12 | 1-3/16-12 | 3/4 19 | 3.82 89 | | 2-1/8 54 | | 1.85 47 | | 1-3/8 | 1-3/8 |
| 1J955-16-16 | 1J958-16-16 | 1-7/16-12 | 1 25 | 5.03 128 | | 2-15/16 75 | | 2.21 56 | | 1-3/8 | 1-5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

NOTE: *Part number 1J955-6-6, 1J955-8-6 and 1J958-8-8 does not have a "H" hex.

1TU55/1TU58 Universal Inch Tube Stub End



| Part Number | Part Number | Diameter R | Hose I.D. | A | | Cutoff Allow. B | | C | | H Hex |
|-------------|-------------|------------|-----------|----------|--|-----------------|--|---------|--|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | inch | inch mm | inch mm | | inch mm | | inch mm | | inch |
| 1TU55-4-4 | 1TU58-4-4 | 1/4 | 1/4 6 | 2.60 66 | | 1-1/2 38 | | 0.72 18 | | 5/8 |
| 1TU55-6-6 | 1TU58-6-6 | 3/8 | 3/8 10 | 2.91 74 | | 1-1/2 38 | | 0.78 20 | | 3/4 |
| 1TU55-8-8 | 1TU58-8-8 | 1/2 | 1/2 13 | 3.35 85 | | 1-13/16 46 | | 1.03 26 | | 7/8 |
| 1TU55-12-12 | 1TU58-12-12 | 3/4 | 3/4 19 | 3.66 93 | | 1-15/16 49 | | 1.03 26 | | 1-1/8 |
| 1TU55-16-16 | 1TU58-16-16 | 1 | 1 25 | 4.41 112 | | 2-3/16 56 | | 1.29 33 | | 1-3/8 |

Construction: Steel.

Add "C" for Stainless Steel.

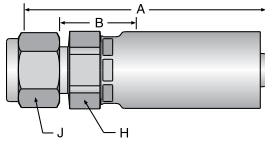
NOTE: Use with A-Lok & CPI nuts, sleeves and adapters. These components are manufactured by Parker's Instrumentation Connectors Division. Refer to catalogs 4230 & 4233 for additional information.



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

1AL55/1AL58 A-LOK® Compression (With Nut and Ferrule)



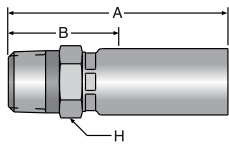
| Part Number | Part Number | Thread Size | Tube O.D. | Hose I.D. | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|-----------|----|------|-----------------|-------|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | inch | mm | inch | mm | inch | mm | inch |
| 1AL55-4-4 | 1AL58-4-4 | 7/16-20 | 1/4 | 1/4 | 6 | 2.16 | 55 | 11/16 | 17 | 5/8 |
| 1AL55-6-6 | 1AL58-6-6 | 9/16-20 | 3/8 | 3/8 | 10 | 2.56 | 65 | 13/16 | 21 | 3/4 |
| 1AL55-8-8 | 1AL58-8-8 | 3/4-20 | 1/2 | 1/2 | 13 | 2.81 | 71 | 3/4 | 19 | 15/16 |

Construction: 316 Stainless nipple and shell.

NOTE: Nut part No. is **XNUX** or **XNUX-316** for stainless steel.
 Front ferrule part No. is **XFFX** or **XFFX-316** for stainless steel.
 Back ferrule part No. is **XBFX** or **XBFX-316** for stainless steel.
X denotes dash size.

Nuts and Ferrules are Manufactured by the Instrumentation Products Division. Refer to Catalog 4300 for additional information.

1UT55/1UT58 Male Rigid (JIS)/BSPT

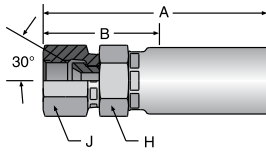


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm |
| 1UT55-4-3 | — | PT 1/4-19 | 3/16 | 5 | 2.20 | 56 | 1-1/4 | 32 | 19 |
| 1UT55-4-4 | — | PT 1/4-19 | 1/4 | 6 | 2.36 | 60 | 1-1/4 | 32 | 19 |

Construction: Steel.

Add "C" for Stainless Steel.

1FU55/1FU58 (JIS)/BSP 30° Flare Female Swivel ISO 228-1

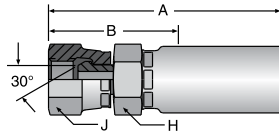


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm | mm |
| 1FU55-4-4 | 1FU58-4-4 | PF 1/4-19 | 1/4 | 6 | 2.48 | 63 | 1-9/16 | 40 | 19 | 19 |
| 1FU55-6-6 | 1FU58-6-6 | PF 3/8-19 | 3/8 | 10 | 2.88 | 73 | 1-11/16 | 43 | 22 | 22 |
| 1FU55-8-8 | 1FU58-8-8 | PF 1/2-14 | 1/2 | 13 | 3.27 | 83 | 1-7/8 | 48 | 27 | 27 |
| 1FU55-12-12 | 1FU58-12-12 | PF 3/4-14 | 3/4 | 19 | 3.58 | 91 | 1-3/16 | 31 | 36 | 36 |
| 1FU55-16-16 | 1FU58-16-16 | PF 1-11 | 1 | 25 | 4.22 | 107 | 1-3/8 | 35 | 41 | 41 |

Construction: Steel.

Add "C" for Stainless Steel.

1GU55/1GU58 (JIS)/BSP 60° Cone Female Swivel ISO 228-1

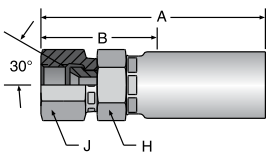


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm | mm |
| 1GU55-4-4 | — | PF 1/4-19 | 1/4 | 6 | 2.44 | 62 | 1-1/4 | 32 | 19 | 19 |
| 1GU55-6-6 | 1GU58-6-6 | PF 3/8-19 | 3/8 | 10 | 2.76 | 70 | 1-3/8 | 35 | 22 | 22 |
| 1GU55-8-8 | — | PF 1/2-14 | 1/2 | 13 | 3.24 | 82 | 1-11/16 | 43 | 27 | 27 |
| 1GU55-12-12 | — | PF 3/4-14 | 3/4 | 19 | 3.46 | 88 | 1-13/16 | 46 | 27 | 36 |

Construction: Steel.

Add "C" for Stainless Steel.

1MU55/1MU58 (JIS) Metric 30° Flare Female Swivel

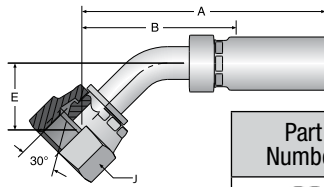


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm | mm |
| 1MU55-4-4 | — | M14 x 1,5 | 1/4 | 6 | 2.41 | 61 | 1-5/16 | 33 | 19 | 19 |
| 1MU55-4-6 | — | M14 x 1,5 | 3/8 | 10 | 2.75 | 70 | 1-3/8 | 35 | 19 | 19 |
| 1MU55-6-6 | — | M18 x 1,5 | 3/8 | 10 | 2.86 | 73 | 1-1/2 | 38 | 22 | 24 |
| 1MU55-8-8 | — | M22 x 1,5 | 1/2 | 13 | 3.19 | 81 | 1.63 | 41 | 27 | 27 |

Construction: Steel.

Add "C" for Stainless Steel.

1G155/1G158 (JIS)/BSP 60° Cone Female Swivel 45° Elbow ISO 228-1

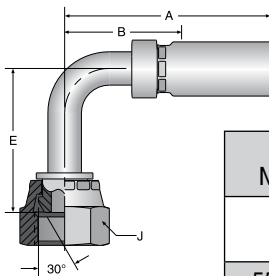


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | # | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | mm |
| 1G155-4-4 | — | PF 1/4-19 | 1/4 | 6 | 3.30 | 84 | 2-3/16 | 56 | 0.79 | 20 | 19 |
| 1G155-6-6 | — | PF 3/8-19 | 3/8 | 10 | 3.48 | 88 | 2-1/8 | 54 | 0.82 | 21 | 22 |
| 1G155-8-8 | — | PF 1/2-14 | 1/2 | 13 | 4.27 | 108 | 2-11/16 | 68 | 1.16 | 30 | 27 |

Construction: Steel.

Add "C" for Stainless Steel.

1G255/1G258 (JIS)/BSP 60° Cone Female Swivel 90° Elbow ISO 228-1

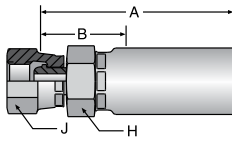


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | # | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | mm |
| 1G255-4-4 | — | PF 1/4-19 | 1/4 | 6 | 2.57 | 65 | 1-7/16 | 37 | 0.94 | 24 | 19 |
| 1G255-6-6 | — | PF 3/8-19 | 3/8 | 10 | 3.06 | 78 | 1-9/16 | 40 | 1.50 | 38 | 22 |
| 1G255-8-8 | — | PF 1/2-14 | 1/2 | 13 | 3.26 | 83 | 1-11/16 | 43 | 1.81 | 46 | 27 |

Construction: Steel.

Add "C" for Stainless Steel.

1C655/1C658 Female Metric Swivel DIN 20078 Heavy Series (Without O-Ring) ISO 8434-1

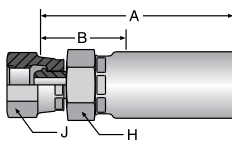


| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm | mm |
| 1C655-8-3 | — | M16 x 1,5 | 3/16 | 5 | 2.25 | 57 | 1-3/8 | 35 | 19 | 19 |
| 1C655-10-4 | 1C658-10-4 | M18 x 1,5 | 1/4 | 6 | 2.50 | 64 | 1-3/8 | 35 | 19 | 22 |
| 1C655-12-5 | — | M20 x 1,5 | 5/16 | 8 | 2.57 | 65 | 1-7/16 | 37 | 24 | 24 |
| 1C655-14-6 | — | M22 x 1,5 | 3/8 | 10 | 3.02 | 77 | 1-5/8 | 41 | 27 | 27 |
| 1C655-16-8 | 1C658-16-8 | M24 x 1,5 | 1/2 | 13 | 3.19 | 81 | 1-5/8 | 41 | 27 | 30 |
| 1C655-20-12 | — | M30 x 2 | 3/4 | 19 | 3.46 | 88 | 1-11/16 | 43 | 36 | 36 |
| — | 1C658-25-12 | M36x2 | 3/4 | 19 | 3.64 | 92 | 1-7/8 | 48 | 41 | 46 |
| 1C655-30-16 | — | M42 x 2 | 1 | 25 | 4.81 | 122 | 2-9/16 | 65 | 40 | 50 |

Construction: Steel.

Add "C" for Stainless Steel.

1C955/1C958 Female Metric Swivel DIN 20078 Heavy Series (With O-Ring) ISO 12151-2-SWS



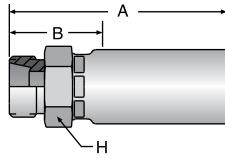
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm | mm |
| 1C955-8-3 | — | M16 x 1,5 | 3/16 | 5 | 2.15 | 55 | 1-1/4 | 32 | 19 | 19 |
| 1C955-10-4 | 1C958-10-4 | M18 x 1,5 | 1/4 | 6 | 2.46 | 63 | 1-5/16 | 33 | 19 | 22 |
| 1C955-12-5 | 1C958-12-5 | M20 x 1,5 | 5/16 | 8 | 2.54 | 65 | 1-7/16 | 37 | 24 | 24 |
| 1C955-14-6 | 1C958-14-6 | M22 x 1,5 | 3/8 | 10 | 2.95 | 75 | 1-9/16 | 40 | 27 | 27 |
| 1C955-16-8 | 1C958-16-8 | M24 x 1,5 | 1/2 | 13 | 3.18 | 81 | 1-9/16 | 40 | 24 | 30 |
| 1C955-20-12 | 1C958-20-12 | M30 x 2 | 3/4 | 19 | 3.33 | 85 | 1-9/16 | 40 | 36 | 36 |
| 1C955-25-12 | 1C958-25-12 | M36 x 2 | 3/4 | 19 | 3.55 | 90 | 1-13/16 | 46 | 41 | 46 |

Construction: Steel.

Add "C" for Stainless Steel.

1D055/1D058 Male Stud DIN 20078 Light Series

ISO 8434-1



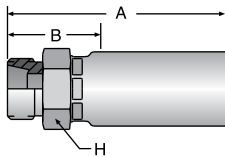
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm |
| 1D055-6-3 | — | M12 x 1,5 | 3/16 | 5 | 1.93 | 49 | 1 | 25 | 15 |
| 1D055-8-4 | — | M14 x 1,5 | 1/4 | 6 | 2.17 | 55 | 1 | 25 | 19 |
| 1D055-10-5 | — | M16 x 1,5 | 5/16 | 8 | 2.28 | 58 | 1 | 25 | 19 |
| 1D055-12-5 | — | M18 x 1,5 | 5/16 | 8 | 2.32 | 59 | 1-1/16 | 27 | 22 |
| 1D055-10-6 | 1D058-10-6 | M16 x 1,5 | 3/8 | 10 | 2.52 | 64 | 1 | 26 | 22 |
| 1D055-12-6 | 1D058-12-6 | M18 x 1,5 | 3/8 | 10 | 2.52 | 64 | 1-1/16 | 27 | 22 |
| 1D055-15-8 | 1D058-15-8 | M22 x 1,5 | 1/2 | 13 | 2.80 | 71 | 1-3/16 | 30 | 27 |
| 1D055-18-12 | — | M26 x 1,5 | 3/4 | 19 | 3.03 | 77 | 1-3/16 | 30 | 32 |
| — | 1D058-22-12 | M30x2 | 3/4 | 19 | 3.11 | 79 | 1-1/4 | 32 | 36 |
| — | 1D058-28-16 | 36x2 | 1 | 25 | 3.54 | 90 | 1-1/4 | 32 | 41 |

Construction: Steel.

Add "C" for Stainless Steel.

1D255/1D258 Male Stud DIN 20078 Heavy Series

ISO 8434-1



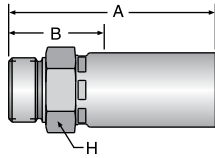
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm |
| 1D255-10-4 | 1D258-10-4 | M18 x 1,5 | 1/4 | 6 | 2.28 | 58 | 1-1/8 | 29 | 22 |
| 1D255-12-5 | — | M20 x 1,5 | 5/16 | 8 | 2.44 | 62 | 1-3/16 | 30 | 24 |
| 1D255-12-6 | — | M20 x 1,5 | 3/8 | 10 | 2.64 | 67 | 1-3/16 | 30 | 24 |
| 1D255-14-6 | 1D258-14-6 | M22 x 1,5 | 3/8 | 10 | 2.72 | 69 | 1-1/4 | 32 | 27 |
| 1D255-16-8 | 1D258-16-8 | M24 x 1,5 | 1/2 | 13 | 2.87 | 73 | 1-1/4 | 32 | 27 |
| 1D255-20-12 | 1D258-20-12 | M30 x 2 | 3/4 | 19 | 3.19 | 81 | 1-5/16 | 33 | 36 |
| — | 1D258-25-12 | M36x2 | 3/4 | 19 | 3.27 | 83 | 1-3/8 | 35 | 41 |
| — | 1D258-30-16 | M42x2 | 1 | 25 | 3.90 | 99 | 1-3/8 | 35 | 46 |

Construction: Steel.

Add "C" for Stainless Steel.

1D955/1D958 Male BSPP - Rigid

ISO 228-1



| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | # | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm |
| 1D955-4-4 | — | PF 1/4-19 | 1/4 | 6 | 2.30 | 59 | 1-1/8 | 29 | 19 |
| 1D955-6-6 | — | PF 3/8-19 | 3/8 | 10 | 2.52 | 64 | 1-1/16 | 27 | 22 |
| 1D955-8-8 | — | PF 1/2-14 | 1/2 | 12 | 2.87 | 73 | 1-1/4 | 32 | 27 |
| — | 1D958-16-16 | PF 1-11 | 1 | 25 | 3.74 | 95 | 1-3/8 | 35 | 41 |

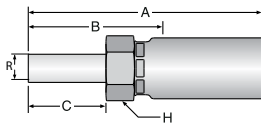
Construction: Steel.

Add "C" for Stainless Steel.

NOTE: When used in a port, a bonded seal must be used. Purchase from Parker's Tube Fittings Division.
Ref. P/N D9DT-SIZE.

11D55/11D58 Metric Standpipe Light Series

ISO 8434-1



| Part Number | Part Number | Diameter R | | Hose I.D. | | A | | Cutoff Allow. B | | C | | H Hex |
|-------------|-------------|------------|------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | mm | inch | inch | mm | inch | mm | inch | mm | inch | mm | mm |
| 11D55-6-3 | — | 6 | .236 | 3/16 | 5 | 2.28 | 58 | 1-1/4 | 32 | 0.79 | 20 | 14 |
| 11D55-8-4 | — | 8 | .315 | 1/4 | 6 | 2.64 | 67 | 1-1/2 | 38 | 0.87 | 22 | 17 |
| 11D55-10-5 | — | 10 | .394 | 5/16 | 8 | 2.76 | 70 | 1-7/16 | 36 | 0.91 | 23 | 17 |
| 11D55-10-6 | 11D58-10-6 | 10 | .394 | 3/8 | 10 | 2.95 | 75 | 1-9/16 | 40 | 0.91 | 23 | 19 |
| 11D55-12-6 | — | 12 | .472 | 3/8 | 10 | 3.15 | 80 | 1-3/4 | 45 | 1.02 | 26 | 19 |
| 11D55-15-8 | 11D58-15-8 | 15 | .591 | 1/2 | 13 | 3.23 | 82 | 1-11/16 | 43 | 0.98 | 25 | 22 |
| 11D55-18-12 | 11D58-18-12 | 18 | .709 | 3/4 | 19 | 3.66 | 93 | 1-7/8 | 48 | 0.98 | 25 | 30 |
| 11D55-22-12 | 11D58-22-12 | 22 | .866 | 3/4 | 19 | 3.66 | 93 | 1-7/8 | 48 | 1.10 | 28 | 30 |
| 11D55-28-16 | 11D58-28-16 | 28 | 1.10 | 1 | 25 | 4.21 | 107 | 1-5/16 | 33 | 1.18 | 30 | 36 |

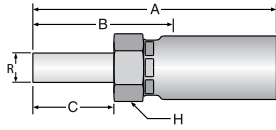
Construction: Steel.

Add "C" for Stainless Steel.

NOTE: Mates with Parker's Tube Fittings Division EO "L" Series Adapters.

13D55/13D58 Metric Standpipe Heavy Series

ISO 8434-1



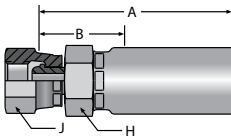
| Part Number | Part Number | Diameter R | | Hose I.D. | | A | | Cutoff Allow. B | | C | | H Hex |
|-------------|-------------|------------|------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | # | | | | | | | | | | | |
| 55 Series | 58 Series | mm | inch | inch | mm | inch | mm | inch | mm | inch | mm | mm |
| 13D55-8-3 | — | 8 | .315 | 3/16 | 5 | 2.45 | 62 | 1-1/2 | 38 | 0.94 | 24 | 14 |
| 13D55-10-4 | — | 10 | .394 | 1/4 | 6 | 2.80 | 71 | 1-11/16 | 43 | 0.94 | 24 | 17 |
| 13D55-12-5 | — | 12 | .472 | 5/16 | 8 | 2.86 | 73 | 1-11/16 | 43 | 1.02 | 26 | 17 |
| 13D55-12-6 | — | 12 | .472 | 3/8 | 10 | 3.05 | 77 | 1-11/16 | 43 | 1.02 | 26 | 19 |
| 13D55-14-6 | — | 14 | .551 | 3/8 | 10 | 3.17 | 81 | 1-13/16 | 46 | 1.02 | 26 | 19 |
| 13D55-16-8 | — | 16 | .630 | 1/2 | 13 | 3.44 | 87 | 1-7/8 | 48 | 1.18 | 30 | 22 |

Construction: Steel.

Add "C" for Stainless Steel.

NOTE: Mates with Parker's Tube Fittings Division EO "S" Series Adapters.

19255/19258 Female BSP Parallel Pipe Swivel Straight (60° Cone)



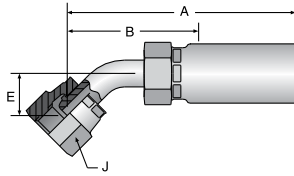
| Part Number | Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | # | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | mm | mm |
| 19255-4-3 | — | PF 1/4-19 | 3/16 | 5 | 2.16 | 55 | 1-5/16 | 33 | 17 | 19 |
| 19255-4-4 | 19258-4-4 | PF 1/4-19 | 1/4 | 6 | 2.41 | 61 | 1-5/16 | 33 | 17 | 19 |
| 19255-6-5 | — | PF 3/8-19 | 5/16 | 8 | 2.45 | 62 | 1-5/16 | 33 | 19 | 22 |
| 19255-6-6 | 19258-6-6 | PF 3/8-19 | 3/8 | 10 | 2.63 | 67 | 1-5/16 | 33 | 19 | 22 |
| 19255-8-8 | 19258-8-8 | PF 1/2-14 | 1/2 | 13 | 3.00 | 76 | 1-1/2 | 38 | 27 | 27 |
| 19255-12-12 | 19258-12-12 | PF 3/4-14 | 3/4 | 19 | 3.42 | 87 | 1-3/8 | 35 | 36 | 36 |
| 19255-16-16 | 19258-16-16 | PF 1-11 | 1 | 25 | 4.16 | 106 | 1-5/16 | 38 | 33 | 41 |

Construction: Steel.

Add "C" for Stainless Steel.

A
Hose

1B155/1B158 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone) ISO 228-1

B
Tubing

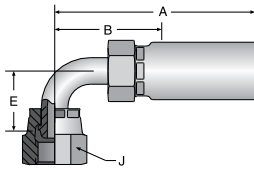
| Part Number | Part Number | Thread Size | Tube O.D. | | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-------------|-----------|----|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | # | | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | |
| 1B155-4-4 | — | PF 1/4-19 | 1/4 | 6 | 1/4 | 6 | 3.03 | 77 | 1-7/8 | 48 | .61 | 16 | 19 |
| 1B155-6-5 | — | PF 3/8-19 | 3/8 | 10 | 5/16 | 8 | 3.60 | 91 | 2-1/4 | 57 | .67 | 17 | 22 |
| 1B155-6-6 | — | PF 3/8-19 | 3/8 | 10 | 3/8 | 10 | 3.60 | 91 | 2-1/4 | 57 | .67 | 17 | 22 |
| 1B155-8-8 | — | PF 1/2-14 | 1/2 | 13 | 1/2 | 13 | 4.28 | 109 | 2-11/16 | 68 | .79 | 20 | 27 |

Construction: Steel.

Add "C" for Stainless Steel.

C
Coiled Air Hose
& FittingsD
Transportation

1B255/1B258 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) ISO 228-1

E
Fittings
Series 55/58

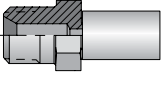
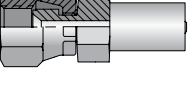
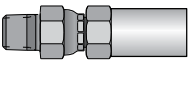
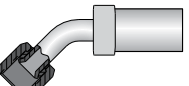
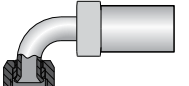
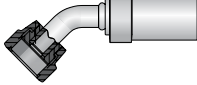
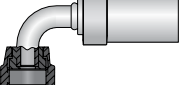
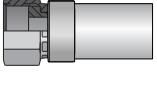
| Part Number | Part Number | Thread Size | Tube O.D. | | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-------------|-----------|----|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | # | | | | | | | | | | | | |
| 55 Series | 58 Series | | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | |
| 1B255-4-4 | — | PF 1/4-19 | 1/4 | 6 | 1/4 | 6 | 2.39 | 61 | 1-1/4 | 32 | 1.14 | 29 | 19 |
| 1B255-6-5 | — | PF 3/8-19 | 3/8 | 10 | 5/16 | 8 | 2.72 | 69 | 1-3/8 | 35 | 1.34 | 34 | 22 |
| 1B255-6-6 | — | PF 3/8-19 | 3/8 | 10 | 3/8 | 10 | 2.81 | 71 | 1-1/2 | 38 | 1.37 | 35 | 22 |
| 1B255-8-8 | — | PF 1/2-14 | 1/2 | 13 | 1/2 | 13 | 3.27 | 83 | 1-9/16 | 40 | 1.57 | 40 | 27 |
| 1B255-10-8 | — | PF 5/8-14 | 1/2 | 13 | 1/2 | 13 | 3.28 | 83 | 1-11/16 | 43 | 1.89 | 48 | 30 |
| 1B255-12-12 | — | PF 3/4-14 | 3/4 | 19 | 3/4 | 19 | 4.20 | 107 | 2-7/16 | 62 | 2.54 | 65 | 36 |

Construction: Steel.

Add "C" for Stainless Steel.

F
Tooling, Equipment
& AccessoriesG
General Technical

57 Series Visual Index

| | | | | | |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 57 Series PERMANENT | 101 Male Taper Pipe Rigid  E-38 | 106 Female SAE (JIC) 37° Swivel  E-38 | 113 Male Pipe Swivel  E-38 | 137 FM (JIC) 37° Swivel 45° Elbow  E-39 | 139 FM (JIC) 37° Swivel 90° Elbow  E-39 |
| | 1J7 Seal-Lok™ 45° Elbow  E-39 | 1J9 Seal-Lok™ 90° Elbow  E-40 | 1JC Seal-Lok™ Straight Short  E-40 | | |

Hose
ATubing
BCoiled Air Hose
& Fittings
CTransportation
DFittings
Series 57
ETooling, Equipment
& Accessories
FGeneral Technical
G

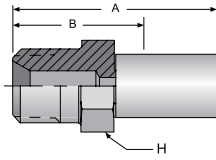
For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



Hose
A

10157 Male Taper Pipe Rigid



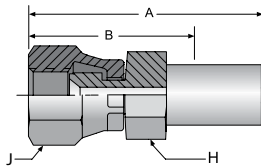
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 10157-2-2 | 1/8-27 | 1/8 | 3 | 1.35 | 34 | 3/4 | 19 | 1/2 |
| 10157-4-2 | 1/4-18 | 1/8 | 3 | 1.56 | 40 | 15/16 | 24 | 5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

Tubing
BCoiled Air Hose
& Fittings
C

10657 SAE (JIC) 37° Swivel



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 10657-2-2 | 5/16-24 | 1/8 | 3 | 1.63 | 41 | 1 | 25 | 1/2 | 1/2 |
| 10657-3-2 | 3/8-24 | 1/8 | 3 | 1.60 | 41 | 1 | 25 | 1/2 | 9/16 |
| 10657-4-2 | 7/16-20 | 1/8 | 3 | 1.68 | 43 | 1 | 25 | 1/2 | 5/8 |

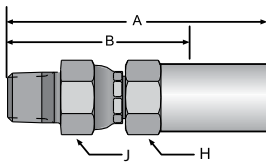
Construction: Steel.

Add "C" for Stainless Steel.

NOTE: Size -4 incorporates a dual seat.

Transportation
DFittings
Series 57
E

11357 Male Pipe Swivel*



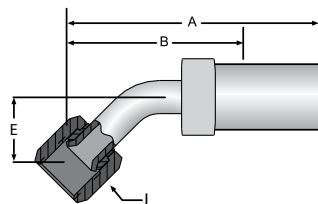
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| Part Number | | inch | mm | inch | mm | inch | mm | inch | inch |
| 11357-2-2 | 1/8-27 | 1/8 | 3 | 1.96 | 50 | 1-5/16 | 33 | 1/2 | 1/2 |

Construction: Steel.

Add "C" for Stainless Steel.

NOTE: *For use with petroleum based fluids.**WARNING:** Fittings allow minor movement to relieve stress on hose but are not recommended for continued or extensive swiveling.Tooling, Equipment
& Accessories
FGeneral Technical
G

13757 Female JIC 37° Swivel 45° Elbow

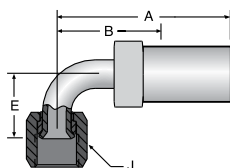


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 13757-4-2 | 7/16-20 | 1/8 | 3 | 1.98 | 50 | 1-5/16 | 33 | 0.33 | 8 | 9/16 |

Construction: Steel.

Add "C" for Stainless Steel.

13957 Female JIC 37° Swivel 90° Elbow Short Drop

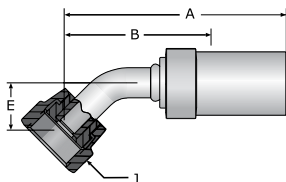


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 13957-4-2 | 7/16-20 | 1/8 | 3 | 1.87 | 48 | 1-1/4 | 32 | 0.68 | 17 | 9/16 |

Construction: Steel.

Add "C" for Stainless Steel.

1J757 Seal-Lok™ 45° Elbow ISO 12151-1-SWE45



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J757-4-2 | 9/16-18 | 1/8 | 3 | 2.07 | 53 | 1-7/16 | 36 | 0.39 | 10 | 11/16 |

Construction: Steel.

Add "C" for Stainless Steel.

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

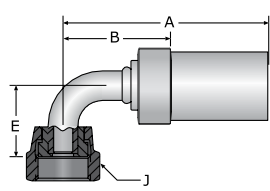
E Fittings Series 57

F Tooling, Equipment & Accessories

G General Technical

1J957 Seal-Lok™ 90° Elbow

ISO 12151-1-SWE90

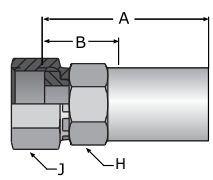


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J957-4-2 | 9/16-18 | 1/8 | 3 | 2.04 | 52 | 1-7/16 | 36 | 0.83 | 21 | 11/16 |

Construction: Steel.
Add "C" for Stainless Steel.

1JC57 Seal-Lok™ Straight-Short

ISO 12151-1-SWSA

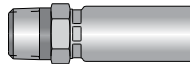
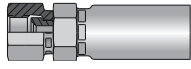
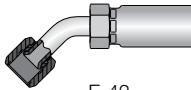
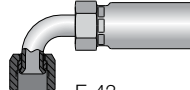
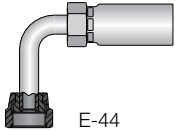
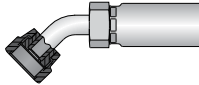
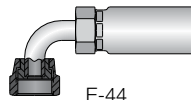
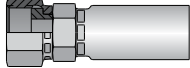
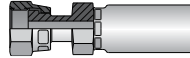


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1JC57-4-2 | 9/16-18 | 1/8 | 3 | 1.34 | 34 | 3/4 | 19 | 5/8 | 11/16 |

Construction: Steel.
Add "C" for Stainless Steel.

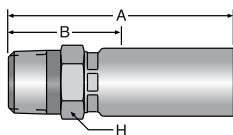


58H Series Visual Index

| | | | | | |
|---------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 58H Series PERMANENT | 101 Male Taper Pipe Rigid | 106 SAE (JIC) 37° Swivel | 137 Female JIC 37° Swivel 45° Elbow | 139 Female JIC 37° Swivel 90° Elbow | 1J1 Seal-Lok™ 90° Elbow Long |
| |  E-42 |  E-42 |  E-42 |  E-43 |  E-44 |
| | 1J7 Seal-Lok™ 45° Elbow | 1J9 Seal-Lok™ 90° Elbow | 1JC Seal-Lok™ Straight Short | 1JS Seal-Lok™ Straight | |
| |  E-44 |  E-44 |  E-43 |  E-43 | |

Hose
ATubing
BCoiled Air Hose
& Fittings
CTransportation
DFittings
Series 58H
ETooling, Equipment
& Accessories
FGeneral Technical
G

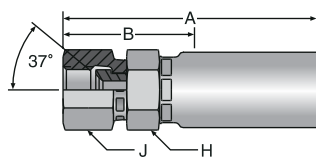
For detailed ordering information, please consult price list or contact Parflex® Division.

A
Hose**10158H Male Taper Pipe Rigid**

| Part Number | NPTF Thread | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 10158H-12-12 | 3/4-14 | 3/4 | 19 | 3.91 | 99 | 1-11/16 | 43 | 1-1/4 |
| 10158H-16-16 | 1-11-1/2 | 1 | 1 | 4.76 | 121 | 1-13/16 | 46 | 1-3/4 |

Construction: Steel.

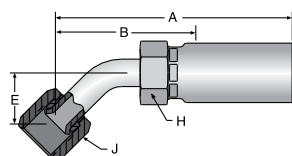
Add "C" for Stainless Steel.

B
TubingC
Coiled Air Hose
& Fittings**10658H (JIC) 37° Swivel**

| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|-------|--------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 10658H-12-12 | 1-1/16-12 | 3/4 | 19 | 4.14 | 105 | 1-13/16 | 46 | 1-1/4 | 1-5/16 |
| 10658H-16-16 | 1-5/16-12 | 1 | 25 | 4.89 | 124 | 1-15/16 | 49 | 1-3/4 | 1-5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

D
TransportationE
Fittings
Series 58H**13758H Female JIC 37° Swivel 45° Elbow**

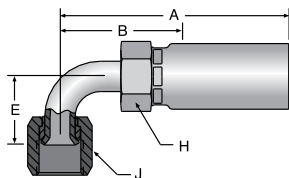
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 13758H-16-16 | 1-5/16-12 | 1 | 25 | 5.46 | 139 | 2-1/2 | 64 | 0.90 | 23 | 1-3/4 | 1-1/2 |

Construction: Steel.

Add "C" for Stainless Steel.

F
Tooling, Equipment
& AccessoriesG
General Technical

13958H Female JIC 37° Swivel 90° Elbow Short Drop

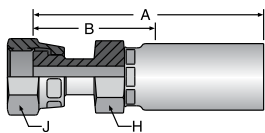


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 13958H-12-12 | 1-1/16-12 | 3/4 | 19 | 4.57 | 116 | 2-3/8 | 60 | 1.81 | 46 | 1-1/4 | 1-1/4 |
| 13958H-16-16 | 1-5/16-12 | 1 | 25 | 5.42 | 138 | 2-1/2 | 64 | 2.14 | 54 | 1-3/4 | 1-1/2 |

Construction: Steel.

Add "C" for Stainless Steel.

1JS58H Seal-Lok™ Straight - Long ISO 12151-1-SWSB

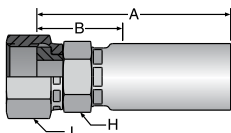


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1JS58H-12-12 | 1-3/16-12 | 3/4 | 19 | 4.29 | 109 | 2-1/16 | 52 | 1-1/4 | 1-3/8 |
| 1JS58H-16-16 | 1-7/16-12 | 1 | 25 | 4.97 | 126 | 1-15/16 | 49 | 1-3/4 | 1-5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

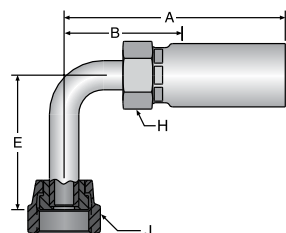
1JC58H Seal-Lok™ Straight-Short ISO 12151-1-SWSA



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1JC58H-12-12 | 1-3/16-12 | 3/4 | 19 | 3.86 | 98 | 1-1/2 | 38 | 1-1/4 | 1-3/8 |
| 1JC58H-16-16 | 1-7/16-12 | 1 | 25 | 4.66 | 119 | 1-11/16 | 43 | 1-3/4 | 1-5/8 |

Construction: Steel.

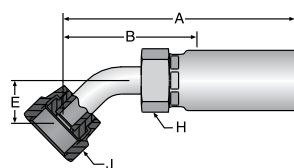
Add "C" for Stainless Steel.

1J158H Seal-Lok™ 90° Elbow - Long Drop**ISO 12151-1-SWEL90**

| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|------|-----|-------|-------|
| # | | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 1J158H-12-12 | 1-3/16-12 | 3/4 | 19 | 4.38 | 111 | 1-7/8 | 48 | 3.78 | 96 | 1-1/4 | 1-3/8 |
| 1J158H-16-16 | 1-7/16-12 | 1 | 25 | 5.35 | 136 | 1-7/8 | 48 | 4.50 | 114 | 1-3/4 | 1-5/8 |

Construction: Steel.

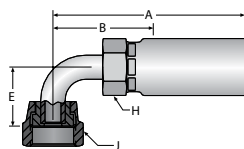
Add "C" for Stainless Steel.

1J758H Seal-Lok™ 45° Elbow**ISO 12151-1-SWE45**

| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 1J758H-12-12 | 1-3/16-12 | 3/4 | 19 | 4.51 | 115 | 2-5/16 | 59 | 0.81 | 21 | 1-1/4 | 1-3/8 |
| 1J758H-16-16 | 1-7/16-12 | 1 | 25 | 5.75 | 146 | 2-13/16 | 71 | 0.94 | 24 | 1-3/4 | 1-5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

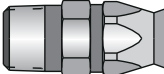


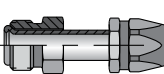
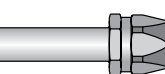
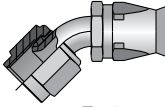
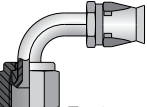
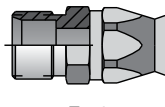
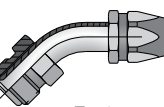
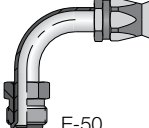
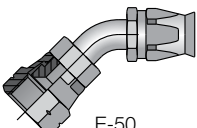
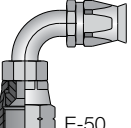
1J958H Seal-Lok™ 90° Elbow - Short Drop**ISO 12151-1-SWE90**



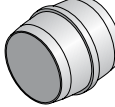
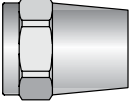
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch | inch |
| 1J958H-12-12 | 1-3/16-12 | 3/4 | 19 | 4.40 | 112 | 2-3/16 | 56 | 1.85 | 47 | 1-1/4 | 1-3/8 |
| 1J958H-16-16 | 1-7/16-12 | 1 | 25 | 5.70 | 145 | 2-3/4 | 70 | 2.21 | 56 | 1-3/4 | 1-5/8 |

Construction: Steel.

Add "C" for Stainless Steel.

90 Series Visual Index

| | | | | | |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <div>90 Series</div> <div>FIELD ATTACHABLE</div> | <div>201</div> <div>Male Taper Pipe Rigid</div> | <div>206</div> <div>SAE [JIC] 37° Swivel</div> | <div>208</div> <div>SAE 45° Swivel</div> | <div>228</div> <div>SAE Male Inverted Swivel Straight</div> | <div>234</div> <div>Straight Tube</div> |
| |  <div>E-46</div> |  <div>E-46</div> |  <div>E-47</div> |  <div>E-47</div> |  <div>E-47</div> |
| | <div>237</div> <div>JIC 37° Swivel 45° Elbow</div> | <div>239</div> <div>JIC 37° Swivel 90° Elbow</div> | <div>261</div> <div>SAE Compression Air Brake</div> | <div>267</div> <div>SAE Male Inverted Swivel 45° Elbow</div> | <div>269</div> <div>SAE Male Inverted Swivel 90° Elbow</div> |
| |  <div>E-48</div> |  <div>E-48</div> |  <div>E-49</div> |  <div>E-49</div> |  <div>E-50</div> |
| | <div>277</div> <div>45° Swivel 45° Elbow</div> | <div>279</div> <div>45° Swivel 90° Elbow</div> | | | |
| |  <div>E-50</div> |  <div>E-50</div> | | | |

| | | | | |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <div>90 Series</div> <div>REPLACEMENT COMPONENTS</div> | <div>200</div> <div>Replacement Socket</div> | <div>090</div> <div>Replacement Ferrule</div> | <div>60HAB</div> <div>Compression Airbrake Sleeve</div> | <div>61HAB</div> <div>Compression Airbrake Nut</div> |
| |  <div>E-51</div> |  <div>E-51</div> |  <div>E-51</div> |  <div>E-51</div> |

For detailed ordering information, please consult price list or contact Parflex® Division.



A
Hose

B
Tubing

C
Coiled Air Hose & Fittings

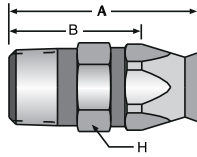
D
Transportation

E
Fittings Series 90

F
Tooling, Equipment & Accessories

G
General Technical

20190 Male Taper Pipe Rigid

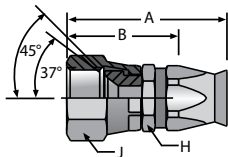


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex |
|-------------|--------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 20190-2-4 | 1/8-27 | -4 | 1.33 | 34 | 7/8 | 22 | 9/16 |
| 20190-4-4 | 1/4-18 | -4 | 1.58 | 40 | 1-1/16 | 27 | 9/16 |
| 20190-4-5 | 1/4-18 | -5 | 1.66 | 42 | 1-1/8 | 29 | 5/8 |
| 20190-4-6 | 1/4-18 | -6 | 1.66 | 42 | 1-1/8 | 29 | 11/16 |
| 20190-6-6 | 3/8-18 | -6 | 1.66 | 42 | 1-1/8 | 29 | 11/16 |
| 20190-6-8 | 3/8-18 | -8 | 1.77 | 45 | 1-3/16 | 30 | 7/8 |
| 20190-8-8 | 1/2-14 | -8 | 1.97 | 50 | 1-7/16 | 37 | 7/8 |
| 20190-8-10 | 1/2-14 | -10 | 2.13 | 54 | 1-7/16 | 37 | 1 |
| 20190-12-12 | 3/4-14 | -12 | 2.26 | 57 | 1-9/16 | 40 | 1-1/8 |
| 20190-12-16 | 3/4-14 | -16 | 2.29 | 58 | 1-5/8 | 41 | 1-3/8 |
| 20190-16-16 | 1-11-1/2 | -16 | 2.46 | 62 | 1-7/8 | 48 | 1-3/8 |
| 20190-20-20 | 1-1/4-11-1/2 | -20 | 2.69 | 68 | 2-1/16 | 52 | 2 |

Construction: Brass nipple and ferrule, steel socket.

Add "C" for Stainless Steel.

20690 SAE (JIC) 37° Swivel



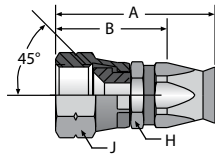
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|-------|-------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 20690-4-4 | 7/16-20 | -4 | 1.58 | 40 | 1-1/8 | 29 | 9/16 | 9/16 |
| 20690-5-5 | 1/2-20 | -5 | 1.66 | 42 | 1-1/8 | 29 | 5/8 | 5/8 |
| 20690-6-6 | 9/16-18 | -6 | 1.74 | 44 | 1-3/16 | 35 | 11/16 | 11/16 |
| 20690-8-6 | 3/4-16 | -6 | 1.85 | 47 | 1-5/16 | 33 | 7/8 | 7/8 |
| 20690-8-8 | 3/4-16 | -8 | 1.98 | 50 | 1-3/8 | 35 | 7/8 | 7/8 |
| 20690-8-10 | 3/4-16 | -10 | 2.07 | 53 | 1-7/16 | 37 | 1 | 7/8 |
| 20690-10-10 | 7/8-14 | -10 | 2.22 | 56 | 1-1/2 | 38 | 1 | 1 |
| 20690-12-12 | 1-1/16-12 | -12 | 2.33 | 59 | 1-5/8 | 41 | 1-1/4 | 1-1/4 |
| 20690-16-16 | 1-5/16-12 | -16 | 2.52 | 64 | 1-15/16 | 49 | 1-3/8 | 1-1/2 |
| 20690-20-20 | 1-5/8-12 | -20 | 2.99 | 76 | 2-5/16 | 59 | 2 | 2 |

Construction: Brass nipple and ferrule, steel nut and socket.

Add "C" for Stainless Steel.

NOTE: Sizes -4, -5, -8 and -10 incorporate a dual seat.

20890 SAE 45° Swivel

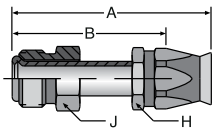


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|-------|-------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 20890-6-6 | 5/8-18 | -6 | 1.77 | 45 | 1-1/4 | 32 | 11/16 | 3/4 |
| 20890-12-12 | 1-1/16-14 | -12 | 2.34 | 59 | 1-11/16 | 43 | 1-1/8 | 1-1/4 |

Construction: Brass nipple and ferrule, steel nut and socket.

Add "C" for Stainless Steel.

22890 SAE Male Inverted Swivel-Straight

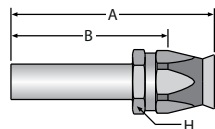


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|-------|--------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 22890-4-4 | 7/16-24 | -4 | 2.15 | 55 | 1-11/16 | 43 | 9/16 | 7/16 |
| 22890-5-5 | 1/2-20 | -5 | 2.21 | 56 | 1-11/16 | 43 | 5/8 | 1/2 |
| 22890-5-6 | 1/2-20 | -6 | 2.20 | 56 | 1-11/16 | 43 | 11/16 | 1/2 |
| 22890-6-6 | 5/8-18 | -6 | 2.22 | 56 | 1-11/16 | 43 | 11/16 | 5/8 |
| 22890-8-8 | 3/4-18 | -8 | 2.34 | 59 | 1-13/16 | 46 | 13/16 | 3/4 |
| 22890-10-10 | 7/8-18 | -10 | 2.53 | 64 | 1-7/8 | 48 | 15/16 | 7/8 |
| 22890-12-12 | 1-1/16-16 | -12 | 3.01 | 76 | 2-3/8 | 60 | 1-1/8 | 1-1/16 |

Construction: Brass ferrule, steel tube, nut and socket.

Add "C" for Stainless Steel.

23490 Straight Tube



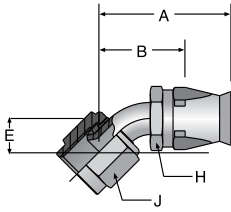
| Part Number | Hose Size | Tube Size | | A | | Cutoff Allow. B | | H Hex |
|-------------|-----------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 23490-8-8 | -8 | 1/2 | 6 | 3.06 | 78 | 2-1/2 | 64 | 13/16 |
| 23490-8-10 | -10 | 1/2 | 8 | 3.15 | 80 | 2-1/2 | 64 | 1 |
| 23490-10-8 | -8 | 5/8 | 8 | 3.26 | 83 | 2-5/8 | 67 | 13/16 |
| 23490-10-10 | -10 | 5/8 | 10 | 3.28 | 83 | 2-5/8 | 67 | 1 |
| 23490-12-12 | -12 | 3/4 | 13 | 3.28 | 83 | 2-11/16 | 68 | 1-1/8 |

Construction: Brass nipple and ferrule, steel socket.

Add "C" for Stainless Steel.

NOTE: 26T90 fitting includes 23490 with the 60HAB sleeve and 61HAB nut.

23790 JIC 37° Swivel 45° Elbow

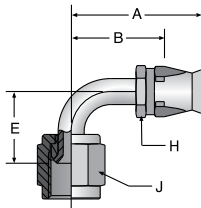


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch | inch |
| 23790-4-4 | 7/16-20 | -4 | 1.79 | 45 | 1-3/8 | 35 | 0.33 | 8 | 9/16 | 9/16 |
| 23790-5-5 | 1/2-20 | -5 | 1.86 | 47 | 1-3/8 | 35 | 0.36 | 9 | 5/8 | 5/8 |
| 23790-6-6 | 9/16-18 | -6 | 1.96 | 50 | 1-7/16 | 37 | 0.39 | 10 | 11/16 | 11/16 |
| 23790-8-6 | 3/4-16 | -6 | 2.11 | 54 | 1-11/16 | 43 | 0.55 | 14 | 11/16 | 7/8 |
| 23790-8-8 | 3/4-16 | -8 | 2.40 | 61 | 1-3/4 | 44 | 0.55 | 14 | 13/16 | 7/8 |
| 23790-10-10 | 7/8-14 | -10 | 2.45 | 62 | 1-7/8 | 48 | 0.63 | 16 | 15/16 | 1 |
| 23790-12-12 | 1-1/16-12 | -12 | 3.04 | 77 | 2-7/16 | 62 | 0.78 | 20 | 1-1/8 | 1-1/4 |
| 23790-16-16 | 1-5/16-12 | -16 | 3.28 | 83 | 2-11/16 | 68 | 0.90 | 23 | 1-3/8 | 1-1/2 |
| 23790-20-20 | 1-5/8-12 | -20 | 3.70 | 94 | 3-1/16 | 78 | 1.18 | 30 | 1-3/4 | 2 |

Construction: Brass ferrule, steel tube, nut and socket.

Add "C" for Stainless Steel.

23990 JIC 37° Swivel 90° Elbow Short Drop

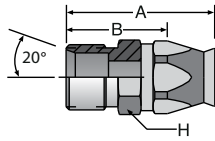


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch | inch |
| 23990-4-4 | 7/16-20 | -4 | 1.67 | 41 | 1-1/4 | 32 | 0.68 | 17 | 9/16 | 9/16 |
| 23990-5-5 | 1/2-20 | -5 | 1.75 | 44 | 1-1/4 | 32 | 0.77 | 20 | 5/8 | 5/8 |
| 23990-6-6 | 9/16-18 | -6 | 1.86 | 47 | 1-3/8 | 35 | 0.85 | 22 | 11/16 | 11/16 |
| 23990-8-6 | 3/4-16 | -6 | 1.95 | 50 | 1-7/16 | 37 | 1.09 | 28 | 11/16 | 7/8 |
| 23990-8-8 | 3/4-16 | -8 | 2.15 | 55 | 1-1/2 | 38 | 1.09 | 28 | 13/16 | 7/8 |
| 23990-10-10 | 7/8-14 | -10 | 2.38 | 60 | 1-3/4 | 44 | 1.23 | 31 | 15/16 | 1 |
| 23990-12-12 | 1-1/16-12 | -12 | 2.95 | 75 | 2-5/16 | 59 | 1.82 | 46 | 1-1/8 | 1-1/4 |
| 23990-16-16 | 1-5/16-12 | -16 | 3.13 | 80 | 2-1/2 | 64 | 2.14 | 54 | 1-3/8 | 1-1/2 |
| 23990-20-20 | 1-5/8-12 | -20 | 3.54 | 90 | 2-7/8 | 73 | 2.57 | 65 | 1-3/4 | 2 |

Construction: Brass ferrule, steel tube, nut and socket.

Add "C" for Stainless Steel.

26190 SAE Compression Air Brake



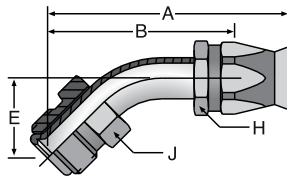
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 26190-8-8 | 11/16-20 | -8 | 1.69 | 43 | 1-1/16 | 27 | 13/16 |
| 26190-8-10 | 11/16-20 | -10 | 1.86 | 47 | 1-3/16 | 30 | 1 |
| 26190-10-10 | 13/16-18 | -10 | 1.92 | 49 | 1-1/4 | 32 | 1 |
| 26190-12-10 | 1-18 | -10 | 2.09 | 53 | 1-7/16 | 37 | 1 |
| 26190-12-12 | 1-18 | -12 | 2.09 | 53 | 1-7/16 | 37 | 1-1/8 |

Construction: Brass nipple and ferrule, steel socket.

Add "B" for Brass nipple and socket.

Add "C" for Stainless Steel.

26790 SAE Male Inverted Swivel 45° Elbow

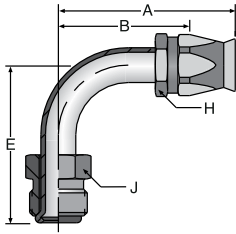


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|------|----|-------|--------|
| # | | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch | inch |
| 26790-4-4 | 7/16-24 | -4 | 2.11 | 54 | 1-11/16 | 43 | 0.63 | 16 | 9/16 | 7/16 |
| 26790-5-5 | 1/2-20 | -5 | 2.51 | 64 | 2 | 51 | 0.94 | 24 | 5/8 | 1/2 |
| 26790-5-6 | 1/2-20 | -6 | 2.55 | 65 | 2-1/16 | 52 | 0.94 | 24 | 11/16 | 1/2 |
| 26790-6-6 | 5/8-18 | -6 | 2.61 | 66 | 2-1/8 | 54 | 0.94 | 24 | 11/16 | 5/8 |
| 26790-8-8 | 3/4-18 | -8 | 2.97 | 75 | 2-3/8 | 60 | 0.94 | 24 | 13/16 | 3/4 |
| 26790-8-10 | 3/4-18 | -10 | 3.05 | 77 | 2-7/16 | 62 | 0.94 | 24 | 15/16 | 3/4 |
| 26790-10-10 | 7/8-18 | -10 | 3.43 | 87 | 2-11/16 | 68 | 1.02 | 26 | 15/16 | 7/8 |
| 26790-12-12 | 1-1/16-16 | -12 | 3.83 | 97 | 3-3/16 | 81 | 1.15 | 29 | 1-1/8 | 1-1/16 |

Construction: Brass ferrule, steel tube, nut and socket.

Add "C" for Stainless Steel.

26990 SAE Male Inverted Swivel 90° Elbow

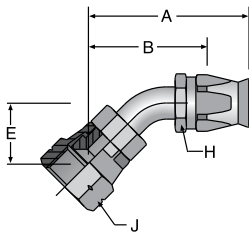


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|------|----|-------|--------|
| # | | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch | inch |
| 26990-4-4 | 7/16-24 | -4 | 1.79 | 45 | 1-5/16 | 33 | 1.19 | 30 | 9/16 | 7/16 |
| 26990-5-5 | 1/2-20 | -5 | 2.01 | 51 | 1-1/2 | 38 | 1.65 | 42 | 5/8 | 1/2 |
| 26990-5-6 | 1/2-20 | -6 | 2.05 | 52 | 1-9/16 | 40 | 1.65 | 42 | 11/16 | 1/2 |
| 26990-6-6 | 5/8-18 | -6 | 2.03 | 52 | 1-1/2 | 38 | 1.70 | 43 | 11/16 | 5/8 |
| 26990-8-8 | 3/4-18 | -8 | 2.30 | 58 | 1-11/16 | 43 | 1.78 | 45 | 13/16 | 3/4 |
| 26990-8-10 | 3/4-18 | -10 | 2.39 | 61 | 1-3/4 | 44 | 1.78 | 45 | 15/16 | 3/4 |
| 26990-10-10 | 7/8-18 | -10 | 3.16 | 80 | 2-1/2 | 64 | 2.18 | 55 | 15/16 | 7/8 |
| 26990-12-12 | 1-1/16-16 | -12 | 3.56 | 90 | 2-15/16 | 75 | 2.51 | 64 | 1-1/8 | 1-1/16 |

Construction: Brass ferrule, steel tube, nut and socket.

Add "C" for Stainless Steel.

27790 SAE 45° Swivel 45° Elbow

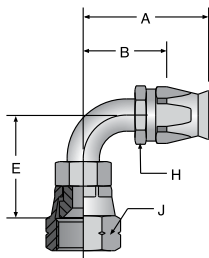


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch | inch |
| 27790-6-6 | 5/8-18 | -6 | 1.72 | 44 | 1-3/16 | 30 | 0.39 | 10 | 11/16 | 3/4 |
| 27790-12-12 | 1-1/16-14 | -12 | 3.03 | 77 | 2-3/8 | 60 | 0.78 | 20 | 1-1/8 | 1-1/4 |

Construction: Brass ferrule, steel tube, nut and socket.

Add "C" for Stainless Steel.

27990 SAE 45° Swivel 90° Elbow



| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | H Hex | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|------|----|-------|-------|
| # | | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch | inch |
| 27990-4-4 | 7/16-20 | -4 | 1.67 | 42 | 1-1/4 | 32 | .68 | 17 | 9/16 | 9/16 |
| 27990-5-5 | 1/2-20 | -5 | 1.75 | 44 | 1-1/4 | 32 | .77 | 20 | 5/8 | 5/8 |
| 27990-6-6 | 5/8-18 | -6 | 1.86 | 47 | 1-3/8 | 35 | .85 | 22 | 11/16 | 3/4 |
| 27990-8-8 | 3/4-16 | -8 | 2.09 | 53 | 1-1/2 | 38 | 1.09 | 28 | 13/16 | 7/8 |
| 27990-12-12 | 1-1/16-14 | -12 | 2.95 | 75 | 2-5/16 | 39 | 1.82 | 46 | 1-1/8 | 1-1/4 |

Construction: Brass ferrule, steel tube, nut and socket.

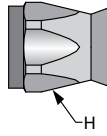
Add "C" for Stainless Steel.



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

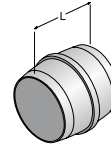
20090 Replacement Socket for Field Attachable Fittings



| Part Number | H Hex |
|-------------|-------|
| # | |
| | inch |
| 20090-4 | 9/16 |
| 20090-5 | 5/8 |
| 20090-6 | 11/16 |
| 20090-8 | 7/8 |
| 20090-10 | 1 |
| 20090-12 | 1-1/8 |
| 20090-16 | 1-3/8 |
| 20090-20 | 1-3/4 |

Construction: Steel or Stainless Steel.
Add "C" for Stainless Steel.

60 HAB SAE Compression Airbrake Sleeve



| Part Number | Tube Size | | L |
|-------------|-----------|----|------|
| # | | | |
| | inch | mm | inch |
| 60HAB-4 | 1/4 | 6 | .250 |
| 60HAB-6 | 3/8 | 10 | .313 |
| 60HAB-8 | 1/2 | 13 | .375 |
| 60HAB-10 | 5/8 | 16 | .438 |
| 60HAB-12 | 3/4 | 19 | .500 |

Construction: Brass.

NOTE: To be used with 13491N & 23490.

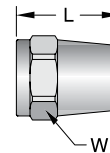
090 Replacement Ferrule for 90 Series Field Attachable Fittings



| Part Number | Hose Size |
|-------------|-----------|
| # | |
| 090-4B | -4 |
| 090-5B | -5 |
| 090-6B | -6 |
| 090-8B | -8 |
| 090-10B | -10 |
| 090-12B | -12 |
| 090-16B | -16 |
| 090-20B | -20 |

Construction: Brass.
Replace "B" with "C" for Stainless Steel.

61 HAB SAE Compression Airbrake Nut



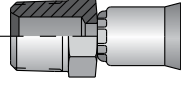
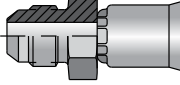
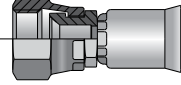
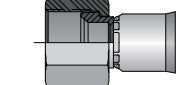
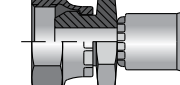
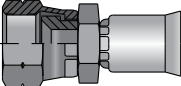
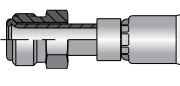
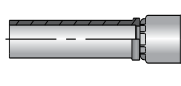
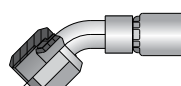
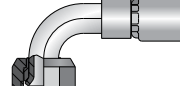
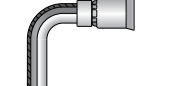
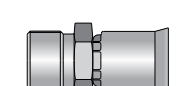
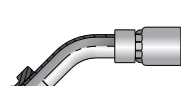
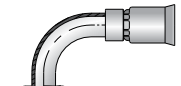
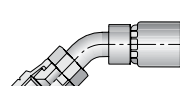
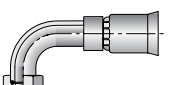


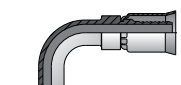
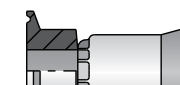
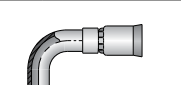
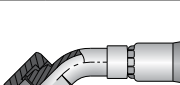
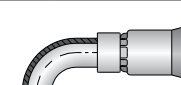

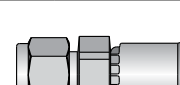
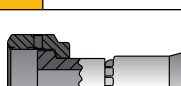
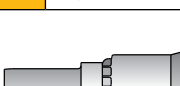
| Part Number | Thread Size | Tube Size | | L | | W Hex |
|-------------|-------------|-----------|----|------|----|-------|
| # | | | | | | |
| | | inch | mm | inch | mm | inch |
| 61HAB-4 | 7/16-24 | 1/4 | 6 | 0.75 | 19 | 9/16 |
| 61HAB-6 | 7/32-24 | 3/8 | 10 | 1.13 | 29 | 5/8 |
| 61HAB-8 | 11/16-20 | 1/2 | 13 | 1.25 | 32 | 13/16 |
| 61HAB-10 | 13/16-18 | 5/8 | 16 | 1.38 | 35 | 15/16 |
| 61HAB-12 | 1-18 | 3/4 | 19 | 1.56 | 40 | 1-1/8 |

Construction: Brass.

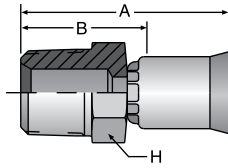
NOTE: To be used with 13491N & 23490 Fittings.

A
HoseB
TubingC
Coiled Air Hose
& FittingsD
TransportationE
Fittings
Series 91F
Tooling, Equipment
& AccessoriesG
General Technical

91N/91 Series Visual Index

| | | | | | | | | | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|
| 91N/91 Series PERMANENT | 101 | Male Taper Pipe Rigid | 103 | Male JIC 37° | 106 | JIC 37° Female Swivel | 106 RD | JIC 37° Female Swivel w/o Nip. Hex | 107 | Female Pipe Swivel |
| |  | |  | |  | |  | |  | |
| | E-53 | | E-53 | | E-54 | | E-54 | | E-55 | |
| | 108 | Female SAE 45° Swivel | 128 | Male Inverted Swivel Straight | 134 | Straight Tube | 137 | Female JIC 37° Swivel 45° Elbow | 139 | Female JIC 37° Swivel 90° Elbow |
| |  | |  | |  | |  | |  | |
| | E-55 | | E-55 | | E-56 | | E-56 | | E-57 | |
| | 141 | Female JIC 37° Swivel 90° Elb Long | 161 | Compression Air Brake | 167 | SAE Male Inverted 45° Elbow | 169 | SAE Male Inverted 90° Elbow | 177 | SAE 45° Swivel 45° Elbow |
| |  | |  | |  | |  | |  | |
| | E-57 | | E-58 | | E-58 | | E-59 | | E-59 | |
| | 179 | Female SAE 45° Swivel 90° Elbow | 192 | Female BSP Pipe Swivel - Str. (60° Cone) | 1AL | A-Lok® Compression | 1B2 | Female BSP Pipe Swivel 45° Elb. (60° Cone) | 1FN | Sanitary Flange |
|  | |  | |  | |  | |  | | |
| E-59 | | E-64 | | E-60 | | E-64 | | E-60 | | |
| 1J1 | Female Seal-Lok™ 90° Elbow Long | 1J7 | Female Seal-Lok™ 45° Elbow | 1J9 | Female Seal-Lok™ 90° Elbow | 1JC | Female Seal-Lok™ Swive lStraight Short | 1P6 | CPI® Compression w/nut and ferrule | |
|  | |  | |  | |  | |  | | |
| E-61 | | E-61 | | E-62 | | E-62 | | E-60 | | |
| 1Q1 | Female Ultra Seal | 1TU | Universal Tube Stub End | | | | | | | |
|  | |  | | | | | | | | |
| E-63 | | E-63 | | | | | | | | |

10191N Male Taper Pipe Rigid



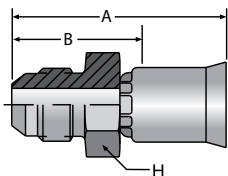
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex |
|--------------|--------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | inch | inch | mm | inch | mm | inch |
| 10191N-2-4 | 1/8-27 | -4 | 1.27 | 32 | 3/4 | 19 | 7/16 |
| 10191N-4-4 | 1/4-18 | -4 | 1.50 | 38 | 15/16 | 24 | 9/16 |
| 10191N-4-5 | 1/4-18 | -5 | 1.55 | 39 | 15/16 | 24 | 9/16 |
| 10191N-4-6 | 1/4-18 | -6 | 1.60 | 41 | 15/16 | 24 | 9/16 |
| 10191N-6-6 | 3/8-18 | -6 | 1.65 | 58 | 1 | 25 | 11/16 |
| 10191N-6-8 | 3/8-18 | -8 | 1.71 | 43 | 1 | 25 | 11/16 |
| 10191N-8-8 | 1/2-14 | -8 | 1.94 | 49 | 1-1/4 | 32 | 7/8 |
| 10191N-8-10 | 1/2-14 | -10 | 1.96 | 50 | 1-1/4 | 32 | 7/8 |
| 10191N-8-12 | 1/2-14 | -12 | 2.42 | 61 | 1-1/4 | 32 | 1 |
| 10191N-12-12 | 3/4-14 | -12 | 2.19 | 56 | 1-3/8 | 35 | 1-1/8 |
| 10191N-16-16 | 1-11-1/2 | -16 | 2.46 | 62 | 1-1/2 | 38 | 1-3/8 |
| 10191-20-20 | 1-1/4-11-1/2 | -20 | 3.05 | 77 | 2-1/16 | 52 | 1-3/4 |

Construction: Brass nipple, steel shell.

Add "B" for Brass nipple and shell.

Add "C" for Stainless Steel.

10391N Male (JIC) 37°

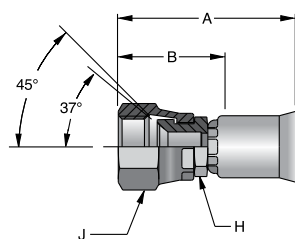


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex |
|--------------|-------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | inch | inch | mm | inch | mm | inch |
| 10391N-4-4 | 7/16-20 | -4 | 1.37 | 35 | 13/16 | 21 | 1/2 |
| 10391N-5-5 | 1/2-20 | -5 | 1.48 | 38 | 7/8 | 22 | 9/16 |
| 10391N-6-6 | 9/16-18 | -6 | 1.64 | 42 | 1 | 25 | 11/16 |
| 10391N-8-8 | 3/4-16 | -8 | 1.79 | 35 | 1-1/8 | 29 | 7/8 |
| 10391N-8-6 | 3/4-16 | -6 | 1.73 | 44 | 1-1/16 | 27 | 7/8 |
| 10391N-10-10 | 7/8-14 | -10 | 2.07 | 53 | 1-3/8 | 35 | 1 |
| 10391N-12-12 | 1-1/16-12 | -12 | 2.10 | 53 | 1-5/16 | 33 | 1-1/8 |
| 10391N-16-16 | 1-5/16-12 | -16 | 2.43 | 62 | 1-1/2 | 38 | 1-3/8 |

Construction: Brass nipple, steel shell.

Add "B" for Brass nipple and shell.

Add "C" for Stainless Steel.

A
Hose**10691N SAE (JIC) 37° Swivel**

| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|---------|-------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 10691N-4-4 | 7/16-20 | -4 | 1.43 | 36 | 7/8 | 22 | 3/8 | 9/16 |
| 10691N-5-5 | 1/2-20 | -5 | 1.56 | 40 | 15/16 | 24 | 7/16 | 5/8 |
| 10691N-6-6 | 9/16-18 | -6 | 1.63 | 41 | 1 | 25 | 1/2 | 11/16 |
| 10691N-6-8 | 9/16-18 | -8 | 1.69 | 43 | 1 | 25 | 9/16 | 11/16 |
| 10691N-8-8 | 3/4-16 | -8 | 1.89 | 48 | 1-3/16 | 30 | 11/16 | 7/8 |
| 10691N-8-10 | 3/4-16 | -10 | 1.86 | 58 | 1-1/8 | 29 | 3/4 | 7/8 |
| 10691N-10-10 | 7/8-14 | -10 | 2.03 | 52 | 1-5/16 | 33 | 13/16 | 1 |
| 10691N-12-12 | 1-1/16-12 | -12 | 2.12 | 54 | 1-5/16 | 33 | 1 | 1-1/4 |
| 10691N-16-16 | 1-5/16-12 | -16 | 2.45 | 62 | 1-9/16 | 40 | 1-1/4 | 1-1/2 |
| 10691-20-20 | 1-5/8-12 | -20 | 2.98 | 76 | 1-13/16 | 46 | 1-11/16 | 2 |

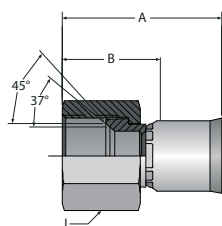
Construction: Brass nipple, steel nut and shell.

Add "B" for Brass nipple, nut and shell.

Add S for Steel nipple, nut and shell.

Add "C" for Stainless Steel.

NOTE: Sizes -4, -5, -8 and -10 incorporate a dual seat.

B
TubingC
Coiled Air Hose
& FittingsD
TransportationE
Fittings
Series 91F
Tooling, Equipment
& AccessoriesG
General Technical**10691NRD SAE (JIC) 37° Swivel**

| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | J Hex |
|-----------------|-------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 10691N-4-4-RD | 7/16-20 | -4 | 1.34 | 34 | 13/16 | 21 | 9/16 |
| 10691N-5-5-RD | 1/2-20 | -5 | 1.51 | 38 | 7/8 | 22 | 5/8 |
| 10691N-6-6-RD | 9/16-18 | -6 | 1.60 | 41 | 15/16 | 24 | 11/16 |
| 10691N-8-8-RD | 3/4-16 | -8 | 1.79 | 45 | 1-1/16 | 27 | 7/8 |
| 10691N-10-10-RD | 7/8-14 | -10 | 1.91 | 49 | 1-3/16 | 30 | 1 |
| 10691N-12-12-RD | 1-1/16-12 | -12 | 2.09 | 58 | 1-5/16 | 33 | 1-1/4 |
| 10691N-16-16-RD | 1-5/16-12 | -16 | 2.27 | 58 | 1-5/16 | 33 | 1-1/2 |

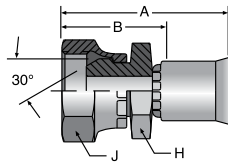
Construction: Brass nipple, steel nut and shell.

Add "B" for Brass nipple, nut and shell.

Add "C" for Stainless Steel.

NOTE: Sizes -4, -5, -8 and -10 incorporate a dual seat.

10791N Female Pipe Swivel



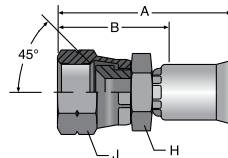
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|--------|-------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 10791N-4-4 | 1/4-18 | -4 | 1.50 | 38 | 15/16 | 24 | 9/16 | 11/16 |
| 10791N-6-6 | 3/8-18 | -6 | 1.67 | 42 | 1 | 25 | 5/8 | 7/8 |
| 10791N-8-8 | 1/2-14 | -8 | 1.83 | 46 | 1-1/8 | 29 | 3/4 | 1 |
| 10791N-10-10 | 3/4-14 | -12 | 2.09 | 53 | 1-5/16 | 33 | 1 | 1-1/4 |
| 10791N-12-12 | 1-1/11-1/2 | -12 | 2.26 | 57 | 1-5/16 | 33 | 1-3/16 | 1-3/8 |

Construction: Brass nipple, steel nut and shell.

Add "B" for Brass nipple, nut and shell.

Add "C" for Stainless Steel.

10891N SAE 45° Swivel



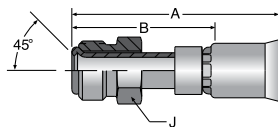
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|-------|-------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 10891N-6-6 | 5/8-18 | -6 | 1.69 | 43 | 1-1/16 | 27 | 5/8 | 3/4 |
| 10891N-12-12 | 1-1/16-14 | -12 | 2.12 | 54 | 1-5/16 | 33 | 1 | 1-1/4 |

Construction: Brass nipple, steel nut and shell.

Add S for Steel nipple, nut and shell.

Add "C" for Stainless Steel.

12891N Male Inverted Swivel–Straight

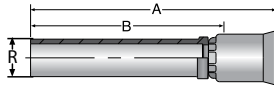


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|--------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 12891N-4-4 | 7/16-24 | -4 | 2.09 | 53 | 1-1/2 | 38 | 7/16 |
| 12891N-5-5 | 1/2-20 | -5 | 2.15 | 55 | 1-9/16 | 40 | 1/2 |
| 12891N-5-6 | 1/2-20 | -6 | 2.23 | 57 | 1-9/16 | 40 | 1/2 |
| 12891N-6-6 | 5/8-18 | -6 | 2.23 | 57 | 1-9/16 | 40 | 5/8 |
| 12891N-8-8 | 3/4-18 | -8 | 2.31 | 59 | 1-5/8 | 41 | 3/4 |
| 12891N-10-10 | 7/8-18 | -10 | 2.43 | 58 | 1-3/4 | 44 | 7/8 |
| 12891N-12-12 | 1-1/16-16 | -12 | 2.50 | 64 | 1-11/16 | 43 | 1-1/16 |

Construction: Steel nipple, tube, nut and shell.

Add "C" for Stainless Steel.

13491N Straight Tube



| Part Number | Hose Size | Diameter R | A | | Cutoff Allow. B | |
|--------------|-----------|------------|------|----|-----------------|----|
| # | | | | | | |
| | | inch | inch | mm | inch | mm |
| 13491N-8-8 | -8 | 1/2 | 2.80 | 71 | 2-1/8 | 54 |
| 13491N-8-10 | -10 | 1/2 | 2.81 | 71 | 2-1/8 | 54 |
| 13491N-10-10 | -10 | 5/8 | 2.96 | 75 | 2-1/4 | 58 |
| 13491N-12-12 | -12 | 3/4 | 3.37 | 86 | 2-9/16 | 65 |

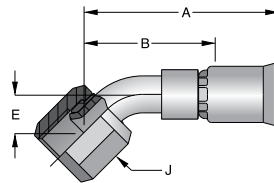
Construction: Brass nipple, steel shell.

Add "B" for Brass nipple and shell.

Add "C" for Stainless Steel.

NOTE: The 16T91N fitting includes 13491N with the 60HAB sleeve and 61HAB nut.

13791N JIC 37° Swivel 45° Elbow



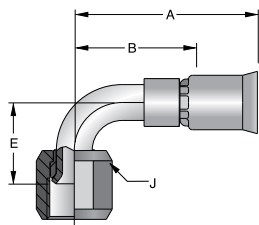
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 13791N-4-4 | 7/16-20 | -4 | 1.74 | 44 | 1-3/16 | 30 | 0.33 | 8 | 9/16 |
| 13791N-5-5 | 1/2-20 | -5 | 1.87 | 47 | 1-1/4 | 32 | 0.36 | 9 | 5/8 |
| 13791N-6-6 | 9/16-18 | -6 | 1.94 | 49 | 1-5/16 | 33 | 0.43 | 11 | 11/16 |
| 13791N-8-8 | 3/4-16 | -8 | 2.28 | 58 | 1-9/16 | 37 | 0.55 | 14 | 7/8 |
| 13791N-10-10 | 7/8-14 | -10 | 2.42 | 61 | 1-11/16 | 43 | 0.64 | 43 | 1 |
| 13791N-12-12 | 1-1/16-12 | -12 | 2.83 | 58 | 2-1/16 | 52 | 0.78 | 20 | 1-1/4 |
| 13791N-16-16 | 1-5/16-12 | -16 | 3.18 | 81 | 2-1/4 | 57 | 0.89 | 23 | 1-1/2 |
| 13791-20-20 | 1-5/8-12 | -20 | 3.67 | 93 | 2-9/16 | 65 | 1.10 | 28 | 2 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

Non Standard. See page ii for information on non-standard products.

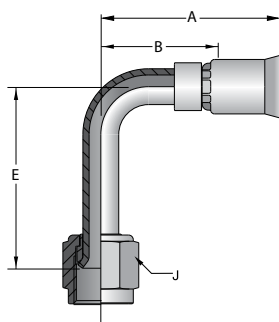
13991N JIC 37° Swivel 90° Elbow Short Drop



| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|----|-------|
| | | | inch | mm | inch | mm | inch | mm | inch |
| # | | | | | | | | | |
| 13991N-4-4 | 7/16-20 | -4 | 1.62 | 41 | 1-1/16 | 37 | 0.68 | 17 | 9/16 |
| 13991N-5-5 | 1/2-20 | -5 | 1.71 | 43 | 1-1/8 | 29 | 0.77 | 20 | 5/8 |
| 13991N-6-6 | 9/16-18 | -6 | 1.91 | 49 | 1-1/4 | 32 | 0.91 | 23 | 11/16 |
| 13991N-8-8 | 3/4-16 | -8 | 2.03 | 52 | 1-5/16 | 33 | 1.09 | 28 | 7/8 |
| 13991N-10-10 | 7/8-14 | -10 | 2.27 | 58 | 1-9/16 | 37 | 1.23 | 43 | 1 |
| 13991N-12-12 | 1-1/16-12 | -12 | 2.75 | 58 | 1-15/16 | 49 | 1.82 | 46 | 1-1/2 |
| 13991N-16-16 | 1-5/16-12 | -16 | 3.15 | 80 | 2-3/16 | 56 | 2.14 | 52 | 1-1/2 |
| 13991-20-20 | 1-5/8-12 | -20 | 3.53 | 90 | 2-7/16 | 62 | 1.18 | 30 | 2 |

Construction: Steel tube, nipple, nut and shell.
Add "C" for Stainless Steel.

14191N JIC 37° Swivel 90° Elbow Long Drop

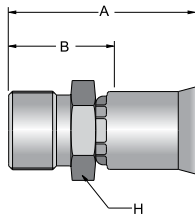


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|-----|-----------------|----|------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | inch |
| # | | | | | | | | | |
| 14191N-4-4 | 7/16-20 | -4 | 1.66 | 42 | 1-1/8 | 29 | 1.80 | 46 | 9/16 |
| 14191N-5-5 | 1/2-20 | -5 | 1.72 | 44 | 1-1/8 | 29 | 1.77 | 45 | 5/8 |
| 14191N-6-6 | 9/16-18 | -6 | 1.93 | 49 | 1-5/16 | 33 | 2.13 | 54 | 11/16 |
| 14191N-8-8 | 3/4-16 | -8 | 2.11 | 54 | 1-3/8 | 35 | 2.43 | 62 | 7/8 |
| 14191N-10-10 | 7/8-14 | -10 | 2.34 | 59 | 1-5/8 | 41 | 2.57 | 65 | 1 |
| 14191N-12-12 | 1-1/16-12 | -12 | 2.63 | 67 | 1-7/8 | 48 | 3.73 | 95 | 1-1/4 |
| 14191N-16-16 | 1-5/16-12 | -16 | 3.15 | 80 | 2-3/16 | 56 | 4.33 | 110 | 1-1/2 |
| 14191-20-20 | 1-5/8-12 | -20 | 4.00 | 102 | 2-15/16 | 75 | 5.28 | 134 | 2 |

Construction: Steel tube, nipple, nut and shell.
Add "C" for Stainless Steel.

A
Hose

16191N Compression Air Brake



| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex |
|--------------|-------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 16191N-8-8 | 11/16-20 | -8 | 1.61 | 41 | 15/16 | 24 | 3/4 |
| 16191N-8-10 | 11/16-20 | -10 | 1.61 | 41 | 15/16 | 24 | 7/8 |
| 16191N-10-10 | 13/16-18 | -10 | 1.82 | 46 | 1-1/8 | 29 | 15/16 |
| 16191N-12-12 | 1-18 | -12 | 1.93 | 49 | 1-1/8 | 29 | 1-1/4 |

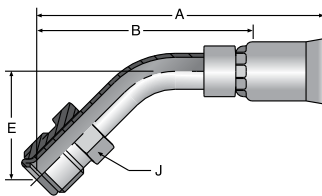
Construction: Brass nipple, steel shell.

Add "B" for Brass nipple and shell.

Add "C" for Stainless Steel.

B
TubingC
Coiled Air Hose
& FittingsD
Transportation

16791N Male Inverted Swivel 45° Elbow



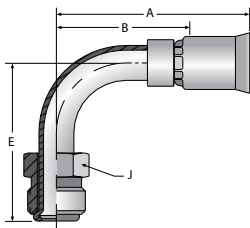
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|----|--------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 16791N-4-4 | 7/16-24 | -4 | 2.05 | 52 | 1-1/2 | 38 | 0.63 | 16 | 7/16 |
| 16791N-5-5 | 1/2-20 | -5 | 2.48 | 63 | 1-7/8 | 48 | 0.71 | 18 | 1/2 |
| 16791N-6-6 | 5/8-18 | -6 | 2.60 | 66 | 1-15/16 | 49 | 0.96 | 24 | 5/8 |
| 16791N-8-8 | 3/4-18 | -8 | 2.85 | 72 | 2-1/8 | 54 | 0.90 | 23 | 3/4 |
| 16791N-10-10 | 7/8-18 | -10 | 3.30 | 84 | 2-5/8 | 67 | 1.02 | 43 | 7/8 |
| 16791N-12-12 | 1-1/16-16 | -12 | 3.64 | 58 | 2-13/16 | 71 | 1.15 | 29 | 1-1/16 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

E
Fittings
Series 91F
Tooling, Equipment
& AccessoriesG
General Technical

16991N Male Inverted Swivel 90° Elbow

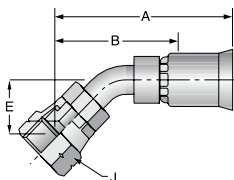


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|----|--------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 16991N-4-4 | 7/16-24 | -4 | 1.72 | 44 | 1-3/16 | 30 | 1.19 | 30 | 7/16 |
| 16991N-5-5 | 1/2-20 | -5 | 1.98 | 50 | 1-3/8 | 35 | 1.65 | 42 | 1/2 |
| 16991N-5-6 | 1/2-20 | -6 | 2.03 | 52 | 1-7/16 | 37 | 1.65 | 42 | 1/2 |
| 16991N-6-6 | 5/8-18 | -6 | 2.08 | 53 | 1-7/16 | 37 | 1.70 | 43 | 5/8 |
| 16991N-8-8 | 3/4-18 | -8 | 2.18 | 55 | 1-1/2 | 38 | 1.87 | 43 | 3/4 |
| 16991N-10-10 | 7/8-18 | -10 | 3.02 | 58 | 2-5/16 | 59 | 2.18 | 55 | 7/8 |
| 16991N-12-12 | 1-1/16-16 | -12 | 3.36 | 85 | 2-9/16 | 64 | 2.51 | 64 | 1-1/16 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

17791N SAE 45° Swivel 45° Elbow

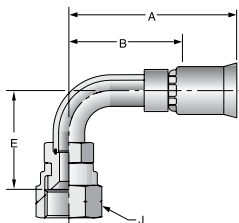


| Part Number | Thread Size | Hose I.D. | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|----|------|-----------------|--------|----|------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| 17791N-6-6 | 5/8-18 | 3/8 | 10 | 2.06 | 52 | 1-5/16 | 33 | 0.39 | 10 |
| 17791N-12-12 | 1-1/16-14 | 3/4 | 19 | 3.07 | 78 | 2-7/16 | 62 | 0.78 | 20 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

17991N SAE 45° Swivel 90° Elbow

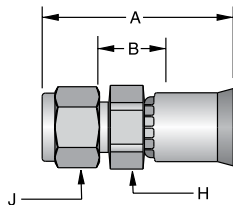


| Part Number | Thread Size | Hose I.D. | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|----|------|-----------------|--------|----|------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| 17991N-6-6 | 5/8-18 | 3/8 | 10 | 2.06 | 52 | 1-5/16 | 49 | 1.19 | 30 |
| 17991N-12-12 | 1-1/16-14 | 3/4 | 19 | 2.92 | 74 | 2-1/8 | 54 | 1.82 | 46 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

1AL91N A-LOK® Compression



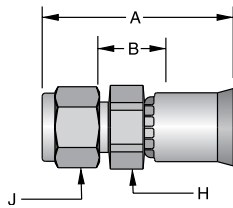
| Part Number | Part Number | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|-----------------|--------------------|-----------|------|----|-----------------|----|-------|-------|
| # | # | | | | | | | |
| w/nut & ferrule | w/o nut & ferrules | | inch | mm | inch | mm | inch | inch |
| 1AL91N-4-4C | 1AL91N-4-4NC | -4 | 1.30 | 33 | 7/16 | 11 | 1/2 | 9/16 |
| 1AL91N-4-5C | 1AL91N-4-5NC | -5 | 1.35 | 34 | 7/16 | 11 | 1/2 | 9/16 |
| 1AL91N-6-6C | 1AL91N-6-6NC | -6 | 1.53 | 39 | 1/2 | 13 | 5/8 | 11/16 |
| 1AL91N-8-8C | 1AL91N-8-8NC | -8 | 1.61 | 41 | 7/16 | 11 | 13/16 | 7/8 |
| 1AL91N-12-12C | 1AL91N-12-12NC | -12 | 1.86 | 47 | 1/2 | 13 | 1-1/8 | 1-1/8 |
| 1AL91N-16-16C | 1AL91N-16-16NC | -16 | 2.11 | 58 | 7/16 | 11 | 1-3/8 | 1-1/2 |

Construction: Stainless steel nipple, nut, ferrules and shell.

Note: Nut part No. is **XNUX-316**;
Front ferrule part No. is **XFFX-316**;
Back ferrule part No. is **XBFX-316**.
X denotes dash size.

Nuts and Ferrules are Manufactured by the Instrumentation Products Division. Refer to Catalog 4230/4233 for Installation Instructions and Replacement Components.

1P691N CPI® Compression (With Nut and Ferrule)



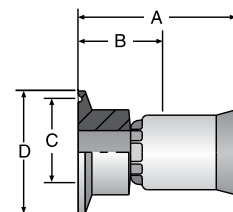
| Part Number | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|------------------|-----------|------|----|-----------------|----|-------|-------|
| # | | | | | | | |
| w/nut & ferrules | | inch | mm | inch | mm | inch | inch |
| 1P691N-4-4C | -4 | 1.30 | 33 | 7/16 | 11 | 1/2 | 9/16 |
| 1P691N-6-6C | -6 | 1.53 | 39 | 1/2 | 13 | 5/8 | 11/16 |
| 1P691N-8-8C | -8 | 1.61 | 41 | 7/16 | 11 | 13/16 | 7/8 |

Construction: Stainless steel nipple and shell.

Note: Nut part No. is **XBZ-SS**;
Ferrule part No. is **XTZ-SS**;
X denotes dash size.

Nuts and Ferrules are Manufactured by the Instrumentation Products Division. Refer to Catalog 4230/4233 for Installation Instructions and Replacement Components.

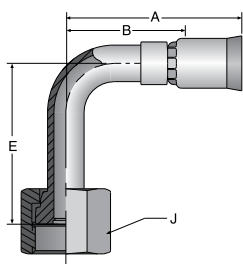
1FN91N Sanitary Flange



| Part Number | Hose Size | A | | Cutoff Allow. B | | C | | Flange Size D | |
|---------------|-----------|------|----|-----------------|----|------|----|---------------|----|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| 1FN91N-16-16C | -16 | 1.96 | 50 | 1-1/16 | 27 | 0.87 | 22 | 1.98 | 50 |

Construction: Stainless steel nipple and shell.

1J191N Female Seal-Lok™ Swivel 90° Elbow Long Drop

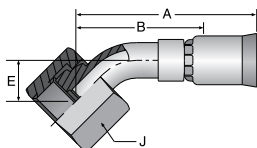


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|-----|-------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 1J191N-4-4 | 9/16-18 | -4 | 1.66 | 42 | 1-1/16 | 27 | 1.80 | 46 | 11/16 |
| 1J191N-4-5 | 9/16-18 | -5 | 1.78 | 45 | 1-1/16 | 27 | 1.80 | 46 | 11/16 |
| 1J191N-6-5 | 11/16-16 | -5 | 1.92 | 49 | 1-3/16 | 30 | 2.13 | 54 | 13/16 |
| 1J191N-6-6 | 11/16-16 | -6 | 1.92 | 49 | 1-3/16 | 30 | 2.13 | 54 | 13/16 |
| 1J191N-8-6 | 13/16-16 | -6 | 2.00 | 51 | 1-9/16 | 40 | 2.51 | 43 | 15/16 |
| 1J191N-8-8 | 13/16-16 | -8 | 2.15 | 58 | 1-7/16 | 37 | 2.51 | 64 | 15/16 |
| 1J191N-10-10 | 1-14 | -10 | 1.25 | 32 | 1-9/16 | 40 | 2.76 | 70 | 1-1/8 |
| 1J191N-12-12 | 1-3/16-12 | -12 | 2.65 | 67 | 1-13/16 | 46 | 3.78 | 96 | 1-3/8 |
| 1J191N-16-16 | 1-7/16-12 | -16 | 3.15 | 80 | 2-1/4 | 57 | 4.50 | 114 | 1-1/2 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

1J791N Female Seal-Lok™ Swivel 45° Elbow

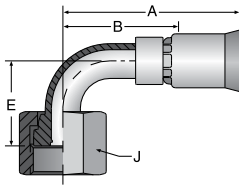


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 1J791N-4-4 | 9/16-18 | -4 | 1.73 | 44 | 1-1/4 | 32 | 0.41 | 10 | 11/16 |
| 1J791N-4-6 | 9/16-18 | -6 | 1.91 | 49 | 1-5/16 | 33 | 0.41 | 10 | 11/16 |
| 1J791N-6-6 | 11/16-16 | -6 | 2.02 | 51 | 1-3/8 | 35 | 0.43 | 11 | 13/16 |
| 1J791N-8-8 | 13/16-16 | -8 | 2.18 | 55 | 1-1/2 | 38 | 0.59 | 15 | 15/16 |
| 1J791N-8-10 | 13/16-16 | -8 | 2.39 | 61 | 1-11/16 | 43 | 0.59 | 15 | 15/16 |
| 1J791N-10-10 | 1-14 | -10 | 2.47 | 63 | 1-3/4 | 44 | 0.59 | 43 | 1-1/8 |
| 1J791N-12-12 | 1-3/16-12 | -12 | 2.74 | 58 | 1-15/16 | 49 | 0.81 | 21 | 1-3/8 |
| 1J791N-16-16 | 1-7/16-12 | -16 | 3.50 | 89 | 2-1/2 | 64 | 0.94 | 24 | 1-5/8 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

1J991N Female Seal-Lok™ Swivel 90° Elbow Short Drop

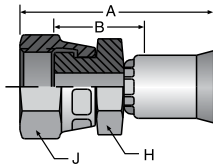


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 1J991N-4-4 | 9/16-18 | -4 | 1.73 | 44 | 1-1/4 | 32 | 0.82 | 21 | 11/16 |
| 1J991N-6-6 | 11/16-16 | -6 | 1.91 | 49 | 1-5/16 | 33 | 0.91 | 23 | 13/16 |
| 1J991N-8-8 | 13/16-16 | -6 | 2.02 | 51 | 1-3/8 | 35 | 1.15 | 29 | 15/16 |
| 1J991N-10-10 | 1-14 | -8 | 2.18 | 55 | 1-1/2 | 38 | 1.27 | 32 | 1-1/8 |
| 1J991N-12-12 | 1-3/16-12 | -8 | 2.39 | 61 | 1-11/16 | 43 | 1.85 | 43 | 1-3/8 |
| 1J991N-16-16 | 1-7/16-12 | -10 | 2.47 | 63 | 1-3/4 | 44 | 2.21 | 56 | 1-5/8 |

Construction: Steel tube, nipple, nut and shell.

Add "C" for Stainless Steel.

1JC91N Female Seal-Lok™ Swivel Straight



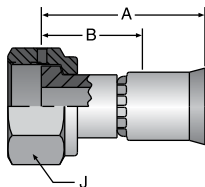
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|---------|-------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 1JC91N-4-4 | 9/16-18 | -4 | 1.46 | 37 | 5/8 | 16 | 9/16 | 11/16 |
| 1JC91N-6-6 | 11/16-16 | -6 | 1.62 | 41 | 11/16 | 17 | 5/8 | 13/16 |
| 1JC91N-8-8 | 13/16-16 | -8 | 1.93 | 49 | 13/16 | 21 | 3/4 | 15/16 |
| 1JC91N-10-10 | 1-14 | -10 | 2.05 | 52 | 7/8 | 22 | 15/16 | 1-1/8 |
| 1JC91N-12-10 | 1-3/16-12 | -10 | 2.05 | 52 | 1-1/4 | 32 | 15/16 | 1-3/8 |
| 1JC91N-12-12 | 1-3/16-12 | -12 | 2.05 | 58 | 1-1/4 | 32 | 15/16 | 1-3/8 |
| 1JC91N-16-16 | 1-7/16-12 | -16 | 2.56 | 65 | 1-1/16 | 27 | 1-3/8 | 1-5/8 |
| 1JC91N-20-16 | 1-11/16-12 | -16 | 2.30 | 58 | 1-3/8 | 35 | 1-5/8 | 1-7/8 |
| 1JC91-20-20 | 1-11/16-12 | -20 | 2.68 | 68 | 1-11/16 | 43 | 1-11/16 | 1-7/8 |

Construction: Steel nipple, nut and shell.

Add "B" for Brass nipple, nut and shell.

Add "C" for Stainless Steel.

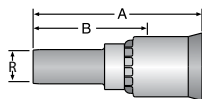
1Q191N Ultra Seal



| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 1Q191N-8-8C | 7/8-20 | -8 | 1.62 | 41 | 15/16 | 24 | 1 |

Construction: Stainless Steel.

1TU91N Universal Tube Stub

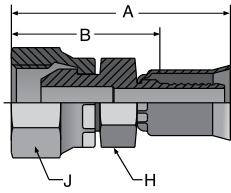


| Part Number | Hose Size | Diameter R | A | | Cutoff Allow. B | |
|---------------|-----------|------------|------|----|-----------------|----|
| # | | | | | | |
| | | inch | inch | mm | inch | mm |
| 1TU91-2-3C | -3 | 1/8 | 1.33 | 34 | 7/8 | 22 |
| 1TU91-3-3C | -3 | 3/16 | 1.33 | 34 | 7/8 | 22 |
| 1TU91N-4-4C | -4 | 1/4 | 1.63 | 41 | 1-1/16 | 27 |
| 1TU91N-4-5C | -5 | 1/4 | 1.70 | 43 | 1-1/16 | 27 |
| 1TU91N-6-6C | -6 | 3/8 | 1.81 | 46 | 1-3/16 | 30 |
| 1TU91N-8-8C | -8 | 1/2 | 2.72 | 58 | 1-7/16 | 37 |
| 1TU91N-8-10C | -10 | 1/2 | 2.14 | 54 | 1-7/16 | 37 |
| 1TU91N-10-10C | -10 | 5/8 | 2.14 | 54 | 1-7/16 | 37 |
| 1TU91N-12-12C | -12 | 3/4 | 2.24 | 57 | 1-7/16 | 37 |
| 1TU91N-16-16C | -16 | 1 | 2.73 | 69 | 1-3/4 | 44 |

Construction: Stainless Steel.

NOTE: Use with A-Lok & CPI nuts, sleeves and adapters. These components are manufactured by Parker's Instrumentation Connectors Division. Refer to catalogs 4230 & 4233 for additional information.

19291N Female BSP Parallel Pipe Swivel Straight (60° Cone)



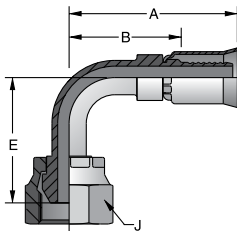
| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|-------|-------|
| # | | | | | | | | |
| | | | inch | mm | inch | mm | inch | inch |
| 19291N-8-8 | PF-1/2-14 | -8 | 1.99 | 51 | 1-5/16 | 33 | 27 | 27 |
| 19291N-12-12 | PF-3/4-14 | -12 | 2.35 | 60 | 1-9/16 | 40 | 36 | 36 |

Construction: Steel nipple, nut and shell.

Add "B" for Brass nipple, nut and shell.

Add "C" for Stainless Steel.

1B291N Female BSP Parallel Pipe Swivel - 90° Elbow (60° Cone)



| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 1B291N-8-8 | PF-1/2-14 | -8 | 2.04 | 52 | 1-3/8 | 35 | 1.57 | 40 | 27 |
| 1B291N-12-12 | PF-3/4-14 | -12 | 2.93 | 74 | 2-1/8 | 54 | 2.54 | 65 | 36 |

Construction: Steel nipple, nut and shell.

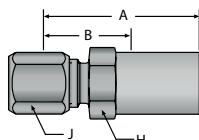
Add "C" for Stainless Steel.

92 Series Visual Index

Hose
ATubing
BCoiled Air Hose
& Fittings
CTransportation
DFittings
Series 92
ETooling, Equipment
& Accessories
FGeneral Technical
G

| | | | | |
|-------------------------------|------------------------|------------------------------------------|----------------------------------------|----------------------------------------|
| 92 Series PERMANENT | 111 Ferrule Fix | 128 Male Inverted Swivel Straight | 167 SAE Male Inverted 45° Elbow | 169 SAE Male Inverted 90° Elbow |
| | E-65 | E-65 | E-66 | E-66 |

11192 Ferrule-Fix (Nut and Sleeve Included)



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 11192-3-3 | 3/8-24 | 3/16 | 5 | 1.37 | 35 | 15/16 | 24 | 5/8 | 7/16 |

Construction: Steel.

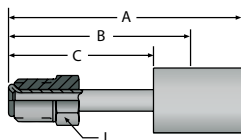
Add "C" for Stainless Steel.

"Ferrul-Fix" affords salvaging of bent tube section of combination tube-hose assemblies and quick, easy repair on the job. See page G-29 for Ferrule-Fix installation instructions.

NOTE: Nut Part Number is 111-size.
Sleeve Part Number is 110-size.

Nuts and Ferrules are Manufactured by the Instrumentation Products Division. Refer to Catalog 4230/4233 for additional information.

12892 SAE Male Inverted Swivel Straight



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | C | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 12892-3-3C | 3/8-24 | 3/16 | 5 | 2.01 | 55 | 1-1/2 | 38 | 1.25 | 32 | 7/16 |

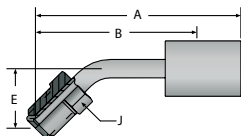
Construction: Stainless Steel.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/ptd

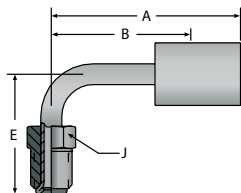


E-65

Hose
A**16792 SAE Male Inverted Swivel 45° Elbow**

| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 16792-3-3C | 3/8-24 | 3/16 | 5 | 2.36 | 60 | 1-15/16 | 50 | 0.62 | 16 | 3/8 |

Construction: Stainless Steel.

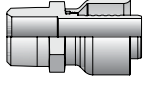
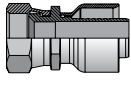
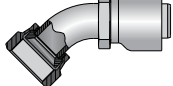

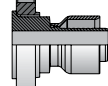
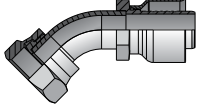
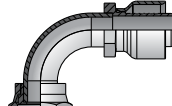
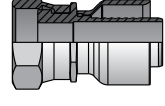
Tubing
BCoiled Air Hose
& Fittings
C**16992 SAE Male Inverted Swivel 90° Elbow**

| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 16992-3-3C | 3/8-24 | 3/16 | 5 | 1.45 | 37 | 1 | 25 | 1.25 | 32 | 3/8 |

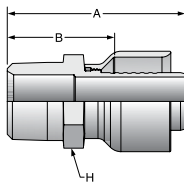
Construction: Stainless Steel.




Transportation
DFittings
Series 92
ETooling, Equipment
& Accessories
FGeneral Technical
G

93N Series Visual Index

| | | | | | |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 93N Series PERMANENT | 101 Male Taper Pipe Rigid  E-67 | 106 Female JIC 37° Swivel  E-67 | 137 Female JIC 37° Swivel 45° Elbow  E-68 | 139 Female JIC 37° Swivel 90° Elbow  E-68 | 14K ANSI B16.5 Flange  E-68 |
| | 1J7 Female Seal-Lok™ 45° Elbow  E-69 | 1J9 Female Seal-Lok™ 90° Elbow  E-69 | 1JC Female Seal-Lok™ Swivel Straight Short  E-69 | | |

10193N Female Taper Pipe Rigid

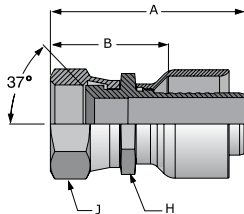






| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|------|-----|-----------------|----|-------------------------------------------------------------------------------------|
| | | inch | mm | inch | mm | inch | mm | inch |
| # |  |  | | | | | |  |
| 10193N-8-8 | 1/2-14 | 1/2 | 13 | 2.09 | 53 | 1-1/2 | 38 | 7/8 |
| 10193N-12-12 | 3/4-14 | 3/4 | 19 | 2.70 | 69 | 1-5/8 | 41 | 1-1/8 |
| 10193N-16-16 | 1-11-1/2 | 1 | 25 | 3.03 | 77 | 1-13/16 | 46 | 1-3/8 |
| 10193N-20-20 | 1-1/4-11-1/2 | 1-1/4 | 32 | 3.20 | 58 | 1-7/8 | 48 | 1-11/16 |
| 10193N-24-24 | 1-1/2-11-1/2 | 1-1/2 | 38 | 3.76 | 96 | 2-1/16 | 52 | 2 |
| 10193N-32-32 | 2-11-1/2 | 2 | 51 | 3.97 | 101 | 2-5/16 | 59 | 2-1/2 |

Construction: Steel nipple, nut and shell.

Add "C" for Stainless Steel.

10693N (JIC) 37° Female Swivel



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|------|-----|-----------------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| # |  |  | | | | | |  |  |
| 10693N-6-6 | 9/16-8 | 3/8 | 10 | 1.69 | 43 | 1-3/32 | 28 | 3/4 | 11/16 |
| 10693N-8-8 | 3/4-16 | 1/2 | 13 | 2.02 | 51 | 1-3/8 | 35 | 7/8 | 7/8 |
| 10693N-10-10 | 7/8-14 | 5/8 | 16 | 2.51 | 64 | 1-11/16 | 43 | 1 | 1 |
| 10693N-12-12 | 1-1/16-12 | 3/4 | 19 | 2.86 | 73 | 1-3/4 | 44 | 1-1/8 | 1-1/4 |
| 10693N-16-16 | 1-5/16-12 | 1 | 25 | 3.11 | 79 | 1-13/16 | 46 | 1-3/8 | 1-1/2 |
| 10693N-20-20 | 1-5/8-12 | 1-1/4 | 32 | 3.28 | 83 | 2 | 51 | 1-3/4 | 2 |
| 10693N-24-24 | 1-7/8-12 | 1-1/2 | 38 | 3.92 | 58 | 2-1/4 | 57 | 2 | 2-1/4 |
| 10693N-32-32 | 2-1/2-12 | 2 | 51 | 4.12 | 105 | 2-7/16 | 62 | 2-1/2 | 2-7/8 |

Construction: Steel nipple, nut and shell.

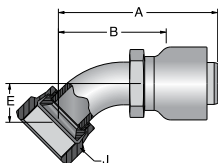
Add "C" for Stainless Steel.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



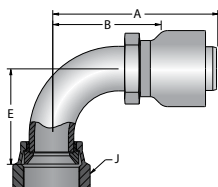
E-67

A
Hose**13793N JIC 37° Swivel 45° Elbow**

| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|-----|-----------------|-----|------|----|-------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 13793N-12-12 | 1-1/16-12 | -12 | 3.37 | 86 | 2-1/4 | 57 | .78 | 20 | 1-1/4 |
| 13793N-16-16 | 1-5/16-12 | -16 | 3.71 | 94 | 2-5/8 | 67 | .90 | 23 | 1-1/2 |
| 13793N-20-20 | 1-5/8-12 | -20 | 4.06 | 103 | 2-3/4 | 70 | 1.18 | 43 | 2 |
| 13793N-24-24 | 1-7/8-12 | -24 | 5.76 | 146 | 4-1/4 | 108 | 1.47 | 37 | 2-1/4 |

Construction: Steel nipple, nut and shell.

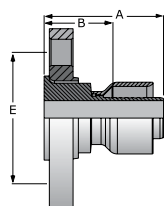
Add "C" for Stainless Steel.

B
TubingC
Coiled Air Hose
& Fittings**13993N JIC 37° Swivel 90° Elbow Short Drop**

| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|------|----|-----------------|-----|------|----|-------|
| # | | | | | | | | | |
| | | | inch | mm | inch | mm | inch | mm | inch |
| 13993N-8-8 | 3/4-16 | -8 | 2.20 | 56 | 1-9/16 | 40 | 1.09 | 28 | 7/8 |
| 13993N-10-10 | 7/8-14 | -10 | 2.41 | 61 | 1-11/16 | 43 | 1.23 | 31 | 1 |
| 13993N-12-12 | 1-1/16-12 | -12 | 3.28 | 83 | 2-3/16 | 56 | 1.82 | 46 | 1-1/4 |
| 13993N-16-16 | 1-5/16-12 | -16 | 3.71 | 94 | 2-1/2 | 64 | 2.14 | 54 | 1-1/2 |
| 13993N-20-20 | 1-5/8-12 | -20 | 3.89 | 99 | 2-9/16 | 65 | 2.57 | 43 | 2 |
| 13993N-24-24 | 1-7/8-12 | -24 | 5.72 | 58 | 4-1/4 | 108 | 3.17 | 81 | 2-1/4 |

Construction: Steel nipple, nut and shell.

Add "C" for Stainless Steel.

D
TransportationE
Fittings Series 93**14K93N ANSI B16.5 Flange**

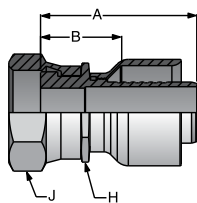
| Part Number | Hose I.D. | | Flange Diameter | | A | | Cutoff Allow. B | | Bolt Spacing E | |
|--------------|-----------|----|-----------------|-----|------|----|-----------------|----|----------------|-----|
| # | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| 14K93N-8-8 | 1/2 | 13 | 3-1/2 | 89 | 2.03 | 52 | 1-3/8 | 35 | 2-3/8 | 60 |
| 14K93N-12-12 | 3/4 | 19 | 3-7/8 | 98 | 2.70 | 69 | 1-3/4 | 44 | 2-3/4 | 70 |
| 14K93N-16-16 | 1 | 25 | 4-1/4 | 108 | 2.84 | 72 | 1-5/8 | 41 | 3-1/8 | 79 |
| 14K93N-20-20 | 1-1/4 | 32 | 4-5/8 | 117 | 2.98 | 76 | 1-5/8 | 41 | 3-1/2 | 89 |
| 14K93N-24-24 | 1-1/2 | 38 | 5 | 127 | 3.45 | 88 | 1-3/4 | 44 | 3-7/8 | 98 |
| 14K93N-32-32 | 2 | 51 | 6 | 152 | 3.62 | 58 | 2 | 51 | 4-3/4 | 121 |

Construction: Steel nipple and shell, stainless steel flange.

NOTE: Also available in PAGE Fittings.

F
Tooling, Equipment
& AccessoriesG
General Technical

1JC93N Seal-Lok™ Swivel Straight Short



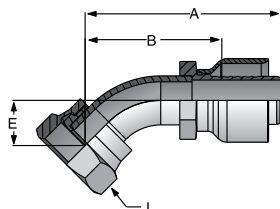
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1JC93N-12-12 | 1-3/16-12 | 3/4 | 19 | 2.30 | 58 | 1-3/8 | 35 | 1-3/8 | 1-3/8 |
| 1JC93N-16-16 | 1-7/16-12 | 1 | 25 | 2.61 | 66 | 1-3/8 | 35 | 1-3/8 | 1-5/8 |
| 1JC93N-20-20 | 1-11/16-12 | 1-1/4 | 32 | 2.65 | 67 | 1-5/16 | 33 | 1-7/8 | 1-7/8 |

Construction: Steel nipple, nut and shell.

Add "C" for Stainless Steel.

NOTE: Also available in PAGE Fittings.

1J793N Seal-Lok™ 45° Elbow



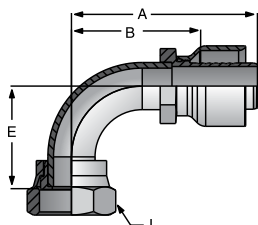
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J793N-20-20 | 1-11/16-12 | 1-1/4 | 32 | 4.25 | 108 | 2-15/16 | 75 | 1.00 | 25 | 1-7/8 |

Construction: Steel nipple, tube, nut and shell.

Add "C" for Stainless Steel.

NOTE: Also available in PAGE Fittings.

1J993N Seal-Lok™ 90° Elbow Short Drop



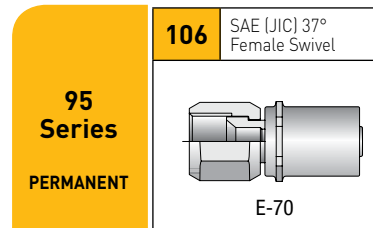
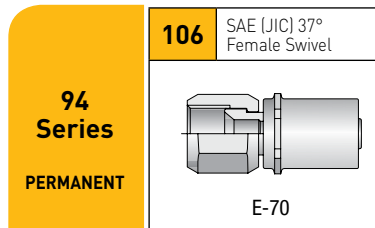
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|--------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J993N-20-20 | 1-11/16-12 | 1-1/4 | 32 | 4.36 | 111 | 3-1/16 | 78 | 2.51 | 64 | 1-7/8 |

Construction: Steel nipple, tube, nut and shell.

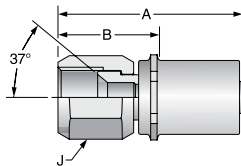
Add "C" for Stainless Steel.

NOTE: Also available in PAGE Fittings.

94/95 Series Visual Index



10694 SAE (JIC) 37° Female Swivel

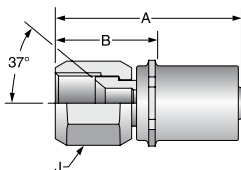


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 10694-6-6 | 9/16-18 | -6 | 1.76 | 45 | 15/16 | 24 | 11/16 |
| 10694-8-8 | 3/4-16 | -8 | 2.09 | 53 | 1-3/16 | 30 | 7/8 |
| 10694-10-10 | 7/8-14 | -10 | 2.30 | 58 | 1-5/16 | 33 | 1 |
| 10694-12-12 | 1-1/16-12 | -12 | 2.45 | 62 | 1-5/16 | 33 | 1-1/4 |
| 10694-16-16 | 1-5/16-12 | -16 | 2.72 | 69 | 1-7/16 | 37 | 1-1/2 |

Construction: Steel nipple, nut and shell.

Add "C" for Stainless Steel.

10695 SAE (JIC) 37° Female Swivel

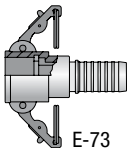
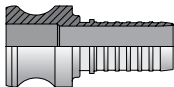
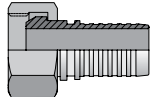
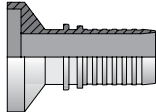
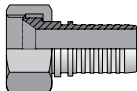
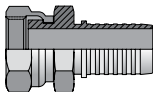
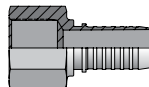
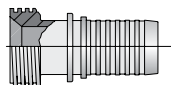
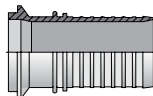
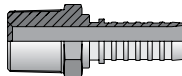
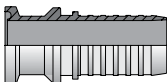
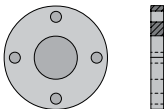
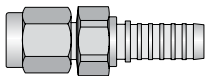
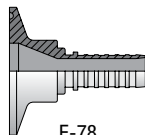
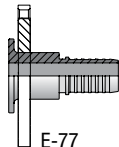
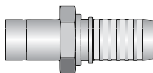


| Part Number | Thread Size | Hose Size | A | | Cutoff Allow. B | | J Hex |
|-------------|-------------|-----------|------|----|-----------------|----|-------|
| # | | | | | | | |
| | | | inch | mm | inch | mm | inch |
| 10695-4-4 | 7/16-20 | -4 | 1.76 | 45 | 15/16 | 24 | 11/16 |
| 10695-6-6 | 9/16-18 | -6 | 2.09 | 53 | 1-3/16 | 30 | 7/8 |
| 10695-8-8 | 3/4-16 | -8 | 2.30 | 58 | 1-5/16 | 33 | 1 |
| 10695-12-12 | 1-1/16-12 | -12 | 2.45 | 62 | 1-5/16 | 33 | 1-1/4 |
| 10695-16-16 | 1-5/16-12 | -16 | 2.72 | 69 | 1-7/16 | 37 | 1-1/2 |

Construction: Steel nipple, nut and shell.

Add "C" for Stainless Steel.

PAGE Fittings Visual Index

| | | | | | |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <div>PAGE Fittings</div> <div>PERMANENT</div> | <div>CL-S</div> <div>Female Cam & Groove</div> | <div>E-S</div> <div>Male Cam & Groove</div> | <div>FBS-S</div> <div>Female Sanitary Bevel Seat</div> | <div>FIL-S</div> <div>Female I-Line® Sanitary</div> | <div>FJX-S</div> <div>Female JIC 37° Swivel</div> |
| |  <div>E-73</div> |  <div>E-73</div> |  <div>E-73</div> |  <div>E-74</div> |  <div>E-76</div> |
| | <div>FORFS-S</div> <div>Female Seal-Lok™ Swivel Short</div> | <div>FP-S</div> <div>Female NPTF Pipe Rigid</div> | <div>MBS-S</div> <div>Male Sanitary Bevel Seat</div> | <div>MIL-S</div> <div>Male I-Line® Sanitary</div> | <div>MP-S</div> <div>Male NPTF Pipe Rigid</div> |
| |  <div>E-76</div> |  <div>E-75</div> |  <div>E-74</div> |  <div>E-74</div> |  <div>E-75</div> |
| | <div>MSAN-S</div> <div>Mini Sanitary Flange</div> | <div>PF</div> <div>ANSI Flange</div> | <div>PLCF-S</div> <div>Female A-Lok® Compression</div> | <div>SAN-S</div> <div>Sanitary Flange & Step Downs</div> | <div>SFR-S</div> <div>Flange Retainer</div> |
| |  <div>E-78</div> |  <div>E-77</div> |  <div>E-76</div> |  <div>E-78</div> |  <div>E-77</div> |
| <div>TUBE-S</div> <div>A-Lok® Male Stand pipe-Rigid "V" Notch</div> | | | | | |
|  <div>E-77</div> | | | | | |

NOTE:

The **PAGE** fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed.

Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.

PAGE Fitting Collars - Size & Style

| PAGE COLLARS | Hose | Collar # Size | 04 | 06 | 08 | 12 | 16 | 20 | 24 | 32 | 40 | 48 | 64 |
|-----------------|--------------|------------------|-------|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| | STW STB | ST300 | ST300 | ST300 | ST300 | ST300 | ST300 | ST300 | ST300 | | | | |
| | SCW SCB | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 | | | |
| | PCW PCB | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 | | | |
| | SCWV SCBV | SC300 | | | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 | SC300 |
| | PCWV PCBV | PC300 | | | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 | PC300 |
| | SBFW SBFB | SBF300 | | SBF300 | SBF300 | SBF300 | SBF300 | | SBF300 | | | | |
| | RCTW RCTB | RC300 | | | RC300 | RC300 | RC300 | RC300 | RC300 | RC300 | RC300 | RC300 | RC300 |

By Size

Inserts & Collars Sold Separately

Examples:

If you need a Female JIC Swivel Fitting for a 08-SCW Hose (1/2" Convolute), place an order for (1) 08-08 FJX-S and (1) 08-SC300.

If you need a Male Pipe Fitting for a 12-RCTW Hose, place an order for (1) 12-12 MP-S and (1) 12-RC300.

By Style

| Size | ST300 | SC300 | PC300 | SBF300 | RC300 |
|--------|-------------------------|---------------------------------------|---------------------------------------|---------------------------|---------------------------|
| | For use with STW/STB | For use with SCW/SCB, SCWV/SCBV | For use with PCW/PCB, PCWV/PCBV | For use with SBFW/SBFB | For use with RCTW/RCTB |
| 1/4" | 04-ST300 | 04-SC300 | 04-PC300 | — | — |
| 3/8" | 06-ST300 | 06-SC300 | 06-PC300 | 06-SBF300 | — |
| 1/2" | 08-ST300 | 08-SC300 | 08-PC300 | 08-SBF300 | 08-RC300 |
| 3/4" | 12-ST300 | 12-SC300 | 12-PC300 | 12-SBF300 | 12-RC300 |
| 1" | 16-ST300 | 16-SC300 | 16-PC300 | 16-SBF300 | 16-RC300 |
| 1-1/4" | 20Z-ST300 | 20-SC300 | 20-PC300 | — | 20-RC300 |
| 1-1/2" | 24Z-ST300 | 24-SC300 | 24-PC300 | 24-SBF300 | 24-RC300 |
| 2" | — | 32-SC300 | 32-PC300 | — | 32-RC300 |
| 3" | — | 48-SC300 | 48-PC300 | — | 48-RC300 |
| 4" | — | 64-SC300 | 64-PC300 | — | 64-RC300 |

Construction: Stainless Steel.

Note: also available in carbon steel "CS".

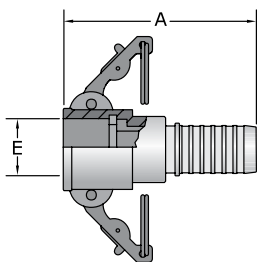
NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed. Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

CL-S Female Cam & Groove

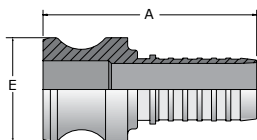


| Part Number | Hose I.D. | | A | | E | |
|-------------|-----------|-----|------|-----|------|-----|
| # | | | | | | |
| | inch | mm | inch | mm | inch | mm |
| 16-16CL-S | 1 | 25 | 2.64 | 67 | 1.44 | 37 |
| 20-20CL-S | 1-1/4 | 32 | 3.00 | 76 | 1.78 | 45 |
| 24-24CL-S | 1-1/2 | 38 | 3.39 | 86 | 2.10 | 53 |
| 32-32CL-S | 2 | 51 | 3.85 | 98 | 2.48 | 63 |
| 48-48CL-S | 3 | 76 | 5.25 | 133 | 3.60 | 91 |
| 64-64CL-S | 4 | 102 | 7.00 | 178 | 4.70 | 119 |

Construction: Stainless Steel.

Note: Also available as encapsulated female cam under part number TEC-S and TECL-S.

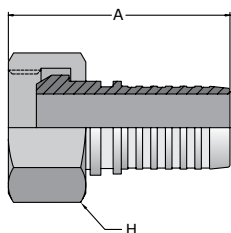
E-S Male Cam & Groove



| Part Number | Hose I.D. | | A | | E | |
|-------------|-----------|-----|------|-----|------|-----|
| # | | | | | | |
| | inch | mm | inch | mm | inch | mm |
| 12-12E-S | 3/4 | 19 | 2.60 | 66 | 1.26 | 32 |
| 16-16E-S | 1 | 25 | 2.91 | 74 | 1.44 | 37 |
| 20-20E-S | 1-1/4 | 32 | 3.64 | 93 | 1.78 | 45 |
| 24-24E-S | 1-1/2 | 38 | 4.03 | 102 | 2.10 | 53 |
| 32-32E-S | 2 | 51 | 4.75 | 121 | 2.48 | 63 |
| 48-48E-S | 3 | 76 | 5.75 | 146 | 3.60 | 91 |
| 64-64E-S | 4 | 102 | 5.88 | 149 | 4.70 | 119 |

Construction: Stainless Steel.

FBS-S Female Sanitary Bevel Seat



| Part Number | Acme Thread | Hose I.D. | | A | |
|-------------|-------------|-----------|-----|------|-----|
| # | | | | | |
| | | inch | mm | inch | mm |
| 16-16FBS-S | 1-1/2-8 | 1 | 25 | 2.74 | 70 |
| 24-24FBS-S | 2-8 | 1-1/2 | 38 | 3.41 | 87 |
| 32-32FBS-S | 2-1/2-8 | 2 | 51 | 3.94 | 100 |
| 40-40FBS-S | 3-8 | 2-1/2 | 64 | 4.37 | 110 |
| 48-48FBS-S | 3-1/2-8 | 3 | 76 | 4.85 | 123 |
| 64-64FBS-S | 4-5/8-6 | 4 | 102 | 5.24 | 133 |

Construction: Stainless Steel.

NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed. Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.

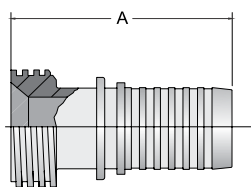
For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



A
Hose

MBS-S Male Sanitary Bevel Seat

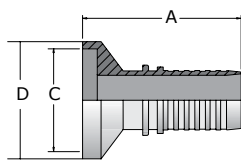


| Part Number | Acme Thread | Hose I.D. | | A | |
|-------------|-------------|-----------|-----|------|-----|
| # | | | | | |
| | inch | inch | mm | inch | mm |
| 16-16MBS-S | 1-1/2-8 | 1 | 25 | 2.74 | 70 |
| 24-24MBS-S | 2-8 | 1-1/2 | 38 | 3.41 | 87 |
| 32-32MBS-S | 2-1/2-8 | 2 | 51 | 3.94 | 100 |
| 40-40MBS-S | 3-8 | 2-1/2 | 64 | 4.37 | 110 |
| 48-48MBS-S | 3-1/2-8 | 3 | 76 | 4.85 | 123 |
| 64-64MBS-S | 4-5/8-6 | 4 | 102 | 5.24 | 133 |

Construction: Stainless Steel.

B
TubingC
Coiled Air Hose
& Fittings

FIL-S Female I-Line® Sanitary

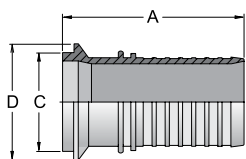


| Part Number | Hose I.D. | | A | | Flange Size C | | D | |
|-------------|-----------|----|------|-----|---------------|----|------|----|
| # | | | | | | | | |
| | inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 16-16FIL-S | 1 | 25 | 2.60 | 66 | 1.25 | 32 | 2.00 | 51 |
| 24-24FIL-S | 1-1/2 | 38 | 3.43 | 87 | 1.76 | 45 | 2.00 | 51 |
| 32-32FIL-S | 2 | 51 | 4.23 | 107 | 2.26 | 57 | 2.64 | 67 |
| 40-40FIL-S | 2-1/2 | 64 | 4.42 | 112 | 2.76 | 70 | 3.31 | 84 |
| 48-48FIL-S | 3 | 76 | 4.84 | 123 | 3.31 | 84 | 3.87 | 98 |

Construction: Stainless Steel.

D
TransportationE
Fittings
Series PAGE

MIL-S Male I-Line® Sanitary



| Part Number | Hose I.D. | | A | | Flange Size C | | D | |
|-------------|-----------|----|------|-----|---------------|----|------|----|
| # | | | | | | | | |
| | inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 16-16MIL-S | 1 | 13 | 2.60 | 66 | 1.25 | 32 | 2.00 | 51 |
| 24-24MIL-S | 1-1/2 | 19 | 3.43 | 87 | 1.76 | 45 | 2.00 | 51 |
| 32-32MIL-S | 2 | 25 | 4.23 | 107 | 2.26 | 57 | 2.64 | 67 |
| 40-40MIL-S | 2-1/2 | 64 | 4.42 | 112 | 2.76 | 70 | 3.31 | 84 |
| 48-48MIL-S | 3 | 76 | 4.84 | 123 | 3.31 | 84 | 3.87 | 98 |

Construction: Stainless Steel.

F
Tooling, Equipment
& Accessories

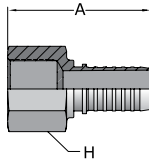
NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed. Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.



For detailed ordering information, please consult price list or contact Parflex® Division.

G
General Technical

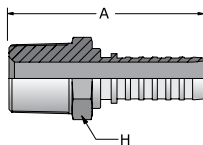
FP-S Female NPTF Pipe-Rigid



| Part Number | Thread Size | Hose I.D. | | A | | H Hex |
|-------------|--------------|-----------|----|------|-----|--------|
| | | inch | mm | inch | mm | inch |
| # | | | | | | |
| 04-04FP-S | 1/4-18 | 1/4 | 6 | 1.63 | 41 | 3/4 |
| 06-06FP-S | 3/8-18 | 3/8 | 10 | 1.73 | 44 | 7/8 |
| 08-08FP-S | 1/2-14 | 1/2 | 13 | 2.25 | 57 | 1-1/16 |
| 12-12FP-S | 3/4-14 | 3/4 | 19 | 2.60 | 66 | 1-5/16 |
| 16-16FP-S | 1-11 1/2 | 1 | 25 | 2.85 | 72 | 1-5/8 |
| 20-20FP-S | 1 1/4-11 1/2 | 1-1/4 | 32 | 3.50 | 89 | 2 |
| 24-24FP-S | 1 1/2-11 1/2 | 1-1/2 | 38 | 3.63 | 92 | 2-3/8 |
| 32-32FP-S | 2-11 1/2 | 2 | 51 | 4.25 | 108 | 2-7/8 |

Construction: Stainless Steel.

MP-S Male NPTF Pipe-Rigid



| Part Number | Thread Size | Hose I.D. | | A | | H Hex |
|-------------|--------------|-----------|-----|------|-----|-------|
| | | inch | mm | inch | mm | inch |
| # | | | | | | |
| 04-04MP-S | 1/4-18 | 1/4 | 6 | 1.63 | 41 | 9/16 |
| 06-06MP-S | 3/8-18 | 3/8 | 10 | 1.76 | 45 | 11/16 |
| 08-08MP-S | 1/2-14 | 1/2 | 13 | 2.34 | 59 | 7/8 |
| 12-12MP-S | 3/4-14 | 3/4 | 19 | 2.59 | 66 | 1-1/8 |
| 16-16MP-S | 1-11 1/2 | 1 | 25 | 3.00 | 76 | 1-3/8 |
| 20-20MP-S | 1 1/4-11 1/2 | 1-1/4 | 32 | 3.39 | 86 | 1-3/4 |
| 24-24MP-S | 1 1/2-11 1/2 | 1-1/2 | 38 | 3.89 | 99 | 2 |
| 32-32MP-S | 2-11 1/2 | 2 | 51 | 4.58 | 116 | 2-1/2 |
| 40-40MP-S | 2-1/2 8 | 2-1/2 | 64 | 5.28 | 134 | 3 |
| 48-48MP-S | 3-8 | 3 | 76 | 5.93 | 151 | 3-3/4 |
| 64-64MP-S | 4-8 | 4 | 102 | 6.82 | 173 | 4-5/8 |

Construction: Stainless Steel.

NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed. Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.

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Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

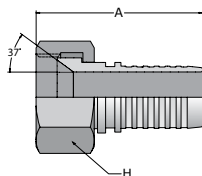


E-75

Hose
ATubing
BCoiled Air Hose
& Fittings
CTransportation
DFittings
Series PAGE
ETooling, Equipment
& Accessories
FGeneral Technical
G

A
Hose

FJX-S Female JIC 37° Swivel

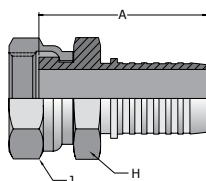


| Part Number | Thread Size | Hose I.D. | | A | | H Hex |
|-------------|-------------|-----------|----|------|-----|-------|
| | | inch | mm | inch | mm | inch |
| # | | | | | | |
| 04-04FJX-S | 7/16-20 | 1/4 | 6 | 1.44 | 37 | 9/16 |
| 06-06FJX-S | 9/16-18 | 3/8 | 10 | 1.65 | 42 | 11/16 |
| 08-08FJX-S | 3/4-16 | 1/2 | 13 | 2.13 | 54 | 7/8 |
| 12-12FJX-S | 1-1/16-12 | 3/4 | 19 | 2.54 | 65 | 1-1/4 |
| 16-16FJX-S | 1-5/16-12 | 1 | 25 | 2.76 | 70 | 1-1/2 |
| 20-20FJX-S | 1-5/8-12 | 1-1/4 | 32 | 3.25 | 83 | 2 |
| 24-24FJX-S | 1-7/8-12 | 1-1/2 | 38 | 3.73 | 95 | 2-1/4 |
| 32-32FJX-S | 2-1/2-12 | 2 | 51 | 4.55 | 116 | 2-7/8 |
| 40-40FJX-S | 3-12 | 2-1/2 | 64 | 4.76 | 121 | 3-3/8 |

Construction: Stainless Steel.

B
TubingC
Coiled Air Hose
& Fittings

FORFS-S Female Seal-Lok® Swivel-Short

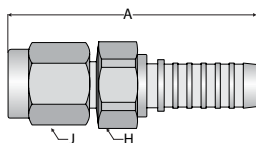


| Part Number | Thread Size | Hose I.D. | | A | | H Hex | J Hex |
|--------------|-------------|-----------|----|------|-----|-------|-------|
| | | inch | mm | inch | mm | inch | inch |
| # | | | | | | | |
| 04-04FORFS-S | 9/16-18 | 1/4 | 6 | 1.50 | 38 | 9/16 | 11/16 |
| 06-06FORFS-S | 11/16-16 | 3/8 | 10 | 1.85 | 47 | 11/16 | 13/16 |
| 08-08FORFS-S | 13/16-16 | 1/2 | 13 | 2.00 | 51 | 13/16 | 15/16 |
| 12-12FORFS-S | 1-3/16-12 | 3/4 | 19 | 2.30 | 58 | 1-1/8 | 1-3/8 |
| 16-16FORFS-S | 1-7/16-12 | 1 | 25 | 2.50 | 64 | 1-3/8 | 1-5/8 |
| 24-24FORFS-S | 2-12 | 1-1/2 | 38 | 3.98 | 101 | 2 | 2-1/4 |

Construction: Stainless Steel.

D
TransportationE
Fittings
Series PAGE

PLCF-S Female A-LOK® Compression (With Nut & Ferrules)



| Part Number | Thread Size | Hose I.D. | | A | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-------|-------|
| | | inch | mm | inch | mm | inch | inch |
| # | | | | | | | |
| 04-04PLCF-S | 7/16-20 | 1/4 | 6 | 1.52 | 39 | 9/16 | 9/16 |
| 06-06PLCF-S | 9/16-20 | 3/8 | 10 | 1.63 | 41 | 11/16 | 11/16 |
| 08-08PLCF-S | 3/4-20 | 1/2 | 13 | 2.05 | 52 | 7/8 | 7/8 |
| 12-12PLCF-S | 1-20 | 3/4 | 19 | 2.30 | 58 | 1-1/8 | 1-1/8 |
| 16-16PLCF-S | 1-5/16-20 | 1 | 25 | 2.57 | 65 | 1-3/8 | 1-1/2 |

Construction: Stainless Steel.

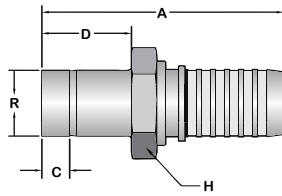
F
Tooling, Equipment
& AccessoriesG
General Technical

NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed. Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.



For detailed ordering information, please consult price list or contact Parflex® Division.

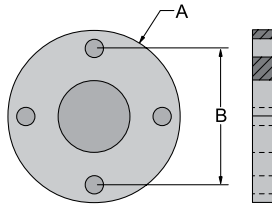
TUBE-S A-LOK® Male Standpipe-Rigid with “V” Notch



| Part Number | Diameter R | | Hose I.D. | | A | | C | | D | | H Hex |
|-------------|------------|----|-----------|----|------|----|------|----|------|----|-------|
| # | | | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 04-04TUBE-S | 1/4 | 6 | 1/4 | 6 | 1.75 | 45 | .18 | 5 | .66 | 17 | 7/16 |
| 06-06TUBE-S | 3/8 | 10 | 3/8 | 10 | 2.06 | 52 | .25 | 6 | .85 | 2 | 5/8 |
| 08-08TUBE-S | 1/2 | 13 | 1/2 | 13 | 2.56 | 65 | .34 | 9 | .97 | 25 | 3/4 |
| 12-12TUBE-S | 3/4 | 19 | 3/4 | 19 | 2.86 | 73 | .40 | 10 | 1.02 | 26 | 1-1/8 |
| 16-16TUBE-S | 1 | 25 | 1 | 25 | 3.34 | 85 | .52 | 13 | 1.30 | 33 | 1-3/8 |
| 20-20TUBE-S | 1-1/4 | 32 | 1-1/4 | 32 | 4.05 | 10 | .50 | 13 | 1.75 | 45 | 1-3/4 |

Construction: Stainless Steel.

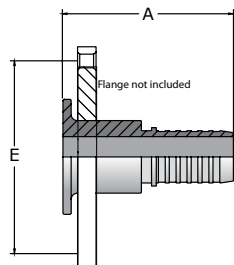
PF ANSI B16.5 Flange



| Carbon Steel (Epoxy Coated) | 316 Stainless Steel | 304 Stainless Steel | Flange Diameter A | | Hose I.D. | | Bolt Spacing B | |
|--------------------------------|------------------------|------------------------|----------------------|-----|--------------|-----|-------------------|-----|
| # | # | # | | | | | | |
| Flange | Flange | Flange | inch | mm | inch | mm | inch | mm |
| 08-PF150 | 08-PF156 | 08-PF154 | 3-1/2 | 89 | 1/2 | 13 | 2-3/8 | 60 |
| 12-PF150 | 12-PF156 | 12-PF154 | 3-7/8 | 98 | 3/4 | 19 | 2-3/4 | 70 |
| 16-PF150 | 16-PF156 | 16-PF154 | 4-1/4 | 108 | 1 | 25 | 3-1/8 | 79 |
| 20-PF150 | 20-PF156 | 20-PF154 | 4-5/8 | 117 | 1-1/4 | 32 | 3-1/2 | 89 |
| 24-PF150 | 24-PF156 | 24-PF154 | 5 | 127 | 1-1/2 | 38 | 3-7/8 | 98 |
| 32-PF150 | 32-PF156 | 32-PF154 | 6 | 152 | 2 | 51 | 4-3/4 | 120 |
| 40-PF150 | 40-PF156 | 40-PF154 | 7 | 178 | 2-1/2 | 64 | 5-1/2 | 140 |
| 48-PF150 | 48-PF156 | 48-PF154 | 7-1/2 | 191 | 3 | 76 | 6 | 152 |
| 64-PF150 | 64-PF156 | 64-PF154 | 9 | 229 | 4 | 102 | 7-3/4 | 197 |

Note: Also available in 300 lb. flange and other materials. Contact Customer Service for options.

SFR-S Flange Retainer

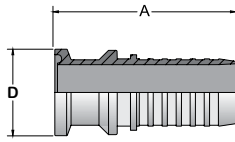


| Part Number | Flange Diameter | | Hose I.D. | | A | | Bolt Spacing E | |
|-------------|--------------------|-----|--------------|-----|------|-----|-------------------|-----|
| # | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm |
| 08-08SFR-S | 3-1/2 | 89 | 1/2 | 13 | 2.30 | 58 | 2-3/8 | 60 |
| 12-12SFR-S | 3-7/8 | 98 | 3/4 | 19 | 2.60 | 66 | 2-3/4 | 70 |
| 16-16SFR-S | 4-1/4 | 108 | 1 | 25 | 3.00 | 76 | 3-1/8 | 79 |
| 20-20SFR-S | 4-5/8 | 117 | 1-1/4 | 32 | 3.25 | 83 | 3-1/2 | 89 |
| 24-24SFR-S | 5 | 127 | 1-1/2 | 38 | 3.65 | 93 | 3-7/8 | 98 |
| 32-32SFR-S | 6 | 152 | 2 | 51 | 4.25 | 108 | 4-3/4 | 120 |
| 40-40SFR-S | 7 | 178 | 2-1/2 | 64 | 5.00 | 127 | 5-1/2 | 140 |
| 48-48SFR-S | 7-1/2 | 191 | 3 | 76 | 5.50 | 140 | 6 | 152 |
| 64-64SFR-S | 9 | 229 | 4 | 102 | 7.00 | 178 | 7-3/4 | 197 |

Construction: Stainless Steel.

NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed. Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.

MSAN-S Mini Sanitary Flange



| Part Number | Hose I.D. | | A | | Flange Size D | |
|-------------|-----------|----|------|----|---------------|----|
| # | | | | | | |
| | inch | mm | inch | mm | inch | mm |
| 04-04MSAN-S | 1/4 | 6 | 1.47 | 37 | .98 | 25 |
| 04-08MSAN-S | 1/4 | 6 | 1.50 | 38 | .98 | 25 |
| 06-06MSAN-S | 3/8 | 10 | 1.53 | 39 | .98 | 25 |
| 06-08MSAN-S | 3/8 | 10 | 1.53 | 39 | .98 | 25 |
| 06-12MSAN-S | 3/8 | 10 | 1.66 | 42 | .98 | 25 |
| 08-08MSAN-S | 1/2 | 13 | 1.90 | 48 | .98 | 25 |
| 08-12MSAN-S | 1/2 | 13 | 1.94 | 49 | .98 | 25 |
| 12-12MSAN-S | 3/4 | 19 | 2.16 | 55 | .98 | 25 |
| 16-16MSAN-S | 1 | 25 | 2.27 | 58 | .98 | 25 |

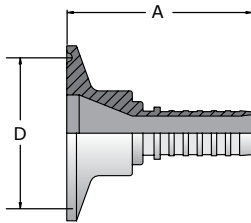
Construction: Stainless Steel.

Meets ASME-BPE-2009.

NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed.

NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed. Length calculations for PAGE hose assemblies are typically made sealing surface to sealing surface per the NAHAD Fluoropolymer Hose Assembly Specification Guidelines unless otherwise requested by customer at time of order.

SAN-S Sanitary Flange & Step-Downs



| Part Number | Hose I.D. | | A | | Flange Size D | |
|-------------|-----------|-----|------|-----|---------------|-------|
| # | | | | | | |
| | inch | mm | inch | mm | inch | mm |
| 08-08SAN-S | 1/2 | 13 | 2.11 | 54 | 1.98 | 50 |
| 08-16SAN-S | 1/2 | 13 | 2.11 | 54 | 1.98 | 50 |
| 08-24SAN-S | 1/2 | 13 | 2.11 | 54 | 1.98 | 50 |
| 12-12SAN-S | 3/4 | 19 | 2.32 | 59 | 1.98 | 50 |
| 16-16SAN-S | 1 | 25 | 2.45 | 62 | 1.98 | 50 |
| 20-20SAN-S | 1-1/2 | 38 | 3.10 | 79 | 1.98 | 50 |
| 06-24SAN-S | 3/8 | 10 | 1.34 | 34 | 1.98 | 50 |
| 12-24SAN-S | 3/4 | 19 | 2.32 | 59 | 1.98 | 50 |
| 16-24SAN-S | 1 | 25 | 2.32 | 59 | 1.98 | 50 |
| 24-24SAN-S | 2 | 51 | 3.67 | 93 | 2.50 | 64 |
| 24-32SAN-S | 1-1/4 | 32 | 3.10 | 80 | 2.50 | 64 |
| 32-40SAN-S | 2 | 51 | 3.74 | 95 | 3.00 | 76 |
| 32-32SAN-S | 2-1/2 | 64 | 4.00 | 102 | 3.00 | 76 |
| 32-40SAN-S | 2 | 51 | 3.74 | 95 | 3.00 | 76 |
| 48-48SAN-S | 3 | 76 | 4.50 | 114 | 3.50 | 89 |
| 40-48SAN-S | 2-1/2 | 64 | 4.09 | 104 | 3.50 | 89 |
| 64-64SAN-S | 4 | 102 | 4.75 | 121 | 4.70 | 119 |
| 48-64SAN-S | 3 | 76 | 4.21 | 107 | 4.70 | 119,4 |

Construction: Stainless Steel.

Meets ASME-BPE-2009.

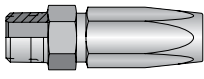
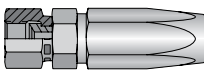
NOTE: The PAGE fitting call-out does not follow traditional Parker fitting nomenclature. The end size and hose size are reversed.



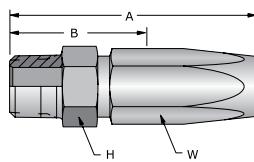
For detailed ordering information, please consult price list or contact Parflex® Division.





Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

BA Series Visual Index

| | | | | |
|-------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|----------------------|
| BA Series FIELD ATTACHABLE | 201 | Male Taper Pipe Rigid | 206 | SAE (JIC) 37° Swivel |
| |  E-79 | |  E-79 | |

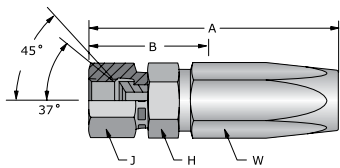
201BA Male Taper Pipe Rigid








| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|------|----|-----------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| # |  |  | | | | | |  |  |
| 201BA-4-4 | 1/4-18 | 1/4 | 6 | 2.43 | 62 | 1-1/4 | 32 | 5/8 | 3/4 |
| 201BA-6-6 | 3/8-18 | 3/8 | 10 | 2.62 | 67 | 1-1/4 | 32 | 3/4 | 7/8 |

Construction: Steel.

206BA Female SAE (JIC) 37° Swivel

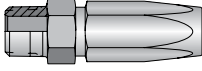
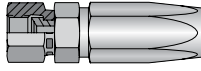
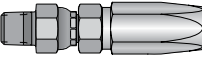


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex | W Hex |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|------|----|-----------------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| | | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| # |  |  | | | | | |  |  |  |
| 206BA-6-4 | 9/16-18 | 1/4 | 6 | 2.62 | 67 | 1-3/8 | 35 | 11/16 | 11/16 | 3/4 |
| 206BA-6-6 | 9/16-18 | 3/8 | 10 | 2.76 | 70 | 1-3/8 | 35 | 3/4 | 3/4 | 7/8 |
| 206BA-8-8 | 3/4-16 | 1/2 | 13 | 3.26 | 83 | 1-11/16 | 43 | 7/8 | 7/8 | 1-1/16 |

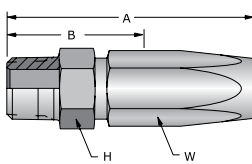
Construction: Steel.

NOTE: Size -8 incorporate a dual seat.

BU Series Visual Index

| | | | |
|-------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| BU Series FIELD ATTACHABLE | 201 Male Taper Pipe Rigid | 206 SAE (JIC) 37° Swivel | 213 Male Taper Pipe Swivel |
| |  E-80 |  E-80 |  E-80 |

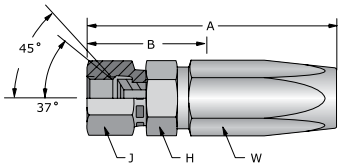
201BU Male Taper Pipe Rigid



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 201BU-2-2 | 1/8-27 | 1/8 | 3 | 1.50 | 38 | 1 | 25 | 7/16 | 7/16 |

Construction: Steel.

206BU Female SAE (JIC) 37° Swivel

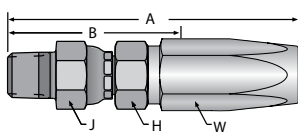


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| 206BU-3-2 | 3/8-24 | 1/8 | 3 | 1.72 | 44 | 1-3/16 | 30 | 1/2 | 9/16 | 7/16 |
| 206BU-4-2 | 7/16-20 | 1/8 | 3 | 1.77 | 45 | 1-3/16 | 30 | 9/16 | 9/16 | 7/16 |
| 206BU-4-3 | 7/16-20 | 1/8 | 3 | 1.89 | 48 | 1-1/16 | 27 | 9/16 | 9/16 | 7/16 |

Construction: Steel.

NOTE: Size -4 incorporate a dual seat.

213BU Male Taper Pipe Swivel

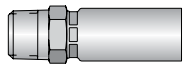
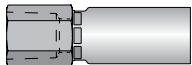
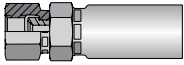
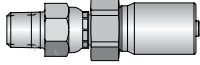
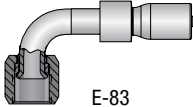
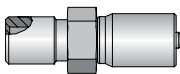
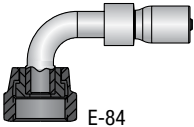
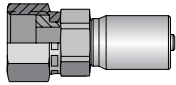
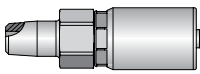


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| 213BU-2-2 | 1/8-27 | 1/8 | 3 | 2.07 | 53 | 1-1/2 | 38 | 1/2 | 1/2 | 7/16 |

Construction: Steel.

WARNING: Fittings allow minor movement to relieve stress on hose but are not recommended for continued or extensive swiveling. Not recommended for use in CNG applications.

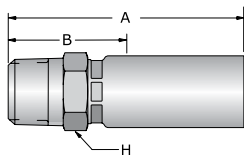
CY Series Visual Index

| | | | | | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| CY Series PERMANENT | 101 Male Taper Pipe Rigid  E-82 | 102 Female Pipe Thread  E-82 | 106 JIC 37° Female Swivel  E-82 | 113 Male Pipe Swivel  E-83 | 139 Female JIC 37° Swivel 90° Elbow  E-83 |
| | 1GK Bulkhead w/Zerk Port Integrated  E-83 | 1J9 Female Seal-Lok™ 90° Elbow  E-84 | 1JC Female Seal-Lok™ Swivel Straight Short  E-84 | 1LM Male Grease  E-84 | |
| | | | | | |

For detailed ordering information, please consult price list or contact Parflex® Division.

A
Hose

101CY Male Taper Pipe Rigid



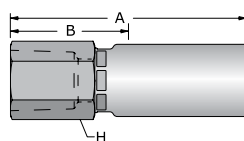
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 101CY-2-2 | 1/8-27 | 1/8 | 3 | 1.31 | 33 | 13/16 | 21 | 7/16 |
| 101CY-2-3 | 1/8-27 | 3/16 | 5 | 1.72 | 44 | 15/16 | 24 | 1/2 |
| 101CY-4-2 | 1/4-18 | 1/8 | 3 | 1.51 | 38 | 1 | 25 | 9/16 |
| 101CY-4-3 | 1/4-18 | 3/16 | 5 | 1.91 | 49 | 1-1/8 | 29 | 9/16 |

Construction: Steel.

Add "C" for Stainless Steel.

B
Tubing

102CY Female Pipe Thread



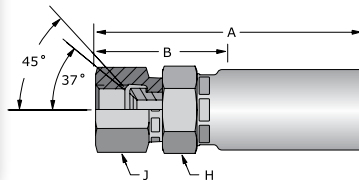
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 102CY-2-3 | 1/8-27 | 3/16 | 5 | 1.97 | 50 | 1-1/16 | 27 | 1/2 |

Construction: Steel.

Add "C" for Stainless Steel.

C
Coiled Air Hose
& FittingsD
Transportation

106CY Female SAE (JIC) 37° Swivel



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|---------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 106CY-2-2 | Flare 5/16-24 | 1/8 | 3 | 1.52 | 39 | 15/16 | 24 | 7/16 | 7/16 |
| 106CY-3-2 | Flare 3/8-24 | 1/8 | 3 | 1.55 | 39 | 1 | 25 | 1/2 | 1/2 |
| 106CY-4-2 | Flare 7/16-20 | 1/8 | 3 | 1.58 | 40 | 1 | 25 | 7/16 | 9/16 |
| 106CY-4-3 | Flare 7/16-20 | 3/16 | 5 | 1.98 | 50 | 1-1/16 | 27 | 9/16 | 9/16 |

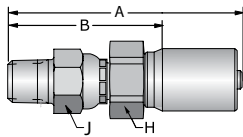
Construction: Steel.

Add "C" for Stainless Steel.

NOTE: Sizes -4 incorporate a dual seat.

E
Fittings
Series CYF
Tooling, Equipment
& AccessoriesG
General Technical

113CY Male Pipe Swivel*



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 113CY-2-2 | 1/8-27 | 1/8 | 3 | 1.89 | 48 | 1-5/16 | 33 | 1/2 | 1/2 |
| 113CY-2-3 | 1/8-27 | 3/16 | 3 | 2.29 | 58 | 1-3/8 | 35 | 1/2 | 1/2 |

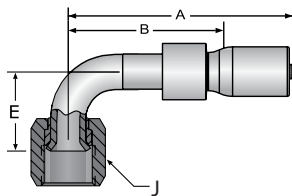
Construction: Steel.

Add "C" for Stainless Steel.

*NOTE: For use with petroleum based fluids.

WARNING: Fittings allow minor movement to relieve stress on hose but are not recommended for continued or extensive swiveling. Not recommended for use in CNG applications.

139CY Female JIC 37° Swivel 90° Elbow Short Drop

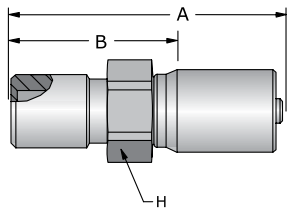


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm |
| 139CY-4-2 | 7/16-20 | 1/8 | 3 | 1.61 | 41 | 1-1/8 | 29 | 0.83 | 21 |
| 139CY-4-3 | 7/16-20 | 3/16 | 5 | 1.90 | 48 | 1 | 25 | 0.83 | 21 |

Construction: Steel.

Add "C" for Stainless Steel.

1GKCY Bulkhead with Integrated Zerk Port



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|----------------|--------------------------------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1GKCY-2-2 | 1/8-27 NPSM Male w/1/4-28 UNF Female | 1/8 | 3 | 1.45 | 37 | 7/8 | 22 | 1/2 |
| 1GKCY-2-3 | 1/8-27 NPSM Male w/1/4-28 UNF Female | 3/16 | 5 | 1.86 | 47 | 15/16 | 24 | 1/2 |
| 1GKCY-2-2-L77* | 1/8-27 NPSM Male w/1/4-28 UNF Female | 1/8 | 3 | 1.71 | 43 | 1-1/4 | 32 | 1/2 |
| 1GK91N-2-4** | 1/8-27 NPSM Male w/1/4-28 UNF Female | 3/16 | 5 | 1.46 | 37 | 15/16 | 24 | 1/2 |

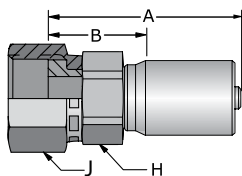
Construction: Steel.

Add "C" for Stainless Steel.

NOTE: *Long bulkhead for use with plates under 3/4" thick. Uses 2GK-NUT, sold separately.
**Use with 919 hoses.

Hose
A

1JCCY Female Seal-Lok™ Swivel Straight Short



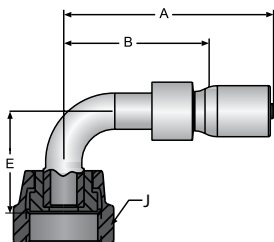
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1JCCY-4-2 | 9/16-18 | 1/8 | 3 | 1.29 | 33 | 3/4 | 19 | 9/16 | 11/16 |

Construction: Steel.

Add "C" for Stainless Steel.

Tubing
BCoiled Air Hose
& Fittings
C

1J9CY Female O-Ring Face Seal Swivel Short Drop



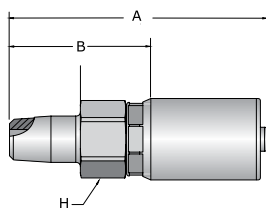
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J9CY-4-2 | 9/16-18 | 1/8 | 3 | 1.81 | 46 | 1-1/4 | 32 | .83 | 21 | 11/16 |

Construction: Steel.

Add "C" for Stainless Steel.

Transportation
DFittings
Series CY
E

1LMCY Male Grease



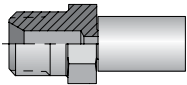
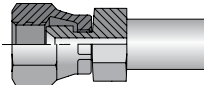
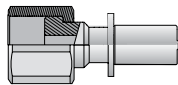
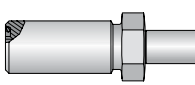
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1LMCY-2-2 | 1/4-28 | 1/8 | 3 | 1.26 | 32 | 11/16 | 17 | 3/8 |

Construction: Steel.

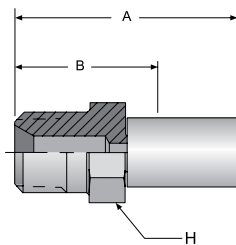
Add "C" for Stainless Steel.




Tooling, Equipment
& Accessories
FGeneral Technical
G

SF Series Visual Index

| | | | | |
|------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| SF Series PERMANENT | 101 Male Taper Pipe Rigid | 106 JIC 37° Swivel | 1JS Female Seal-Lok™ Swivel Long | 1JB Male Seal-Lok™ Bulkhead w/O-Ring |
| |  E-85 |  E-85 |  E-86 |  E-86 |

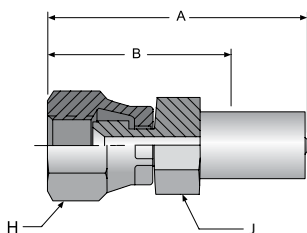
101SF Male Taper Pipe Rigid







| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|----|-----------------|----|-------------------------------------------------------------------------------------|
| | |  |  | | | | |  |
| | | inch | mm | inch | mm | inch | mm | inch |
| 101SF-2-1 | 1/8-27 | .090 | 2.3 | 1.13 | 29 | 3/4 | 19 | 7/16 |

Construction: Steel

106SF JIC 37° Swivel



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|----|-----------------|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| | |  |  | | | | |  |  |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 106SF-2-1 | 5/16-24 | .090 | 2.3 | 1.37 | 35 | 15/16 | 24 | 7/16 | 1/2 |

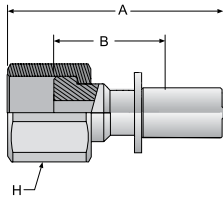
Construction: Steel

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

A
Hose

1JSSF Female Seal-Lok™ Swivel Long

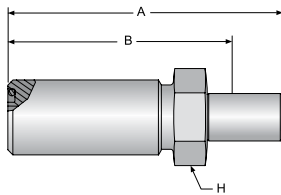


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|-----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1JSSF-4-1 | 9/16-18 | .090 | 2.3 | 1.50 | 88 | 3/4 | 19 | 11/16 |

Construction: Steel

B
TubingC
Coiled Air Hose
& Fittings

1JBSF Male Seal-Lok™ Bulkhead with O-Ring



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|-----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1JBSF-4-1 | 9/16-18 | .090 | 2.3 | 2.06 | 52 | 1-11/16 | 43 | 5/8 |

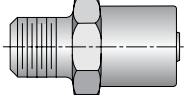
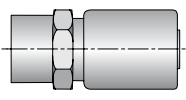
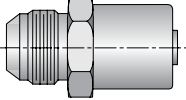
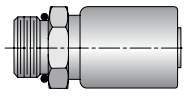
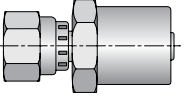
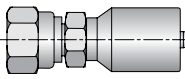
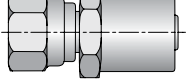
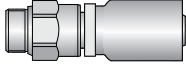
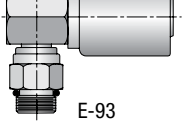
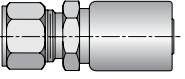
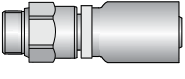
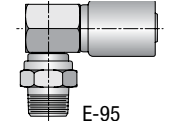
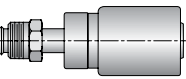
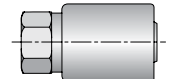
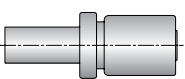
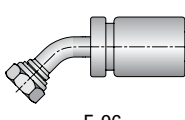
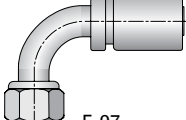

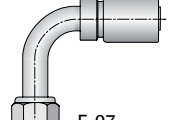
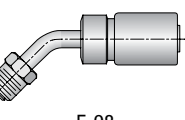
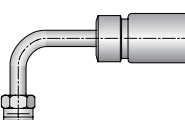
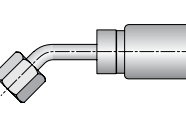
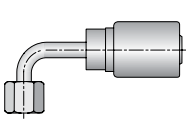
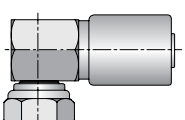
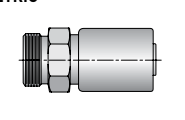

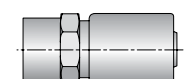
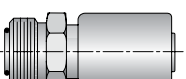
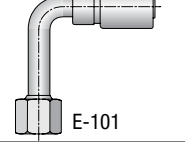
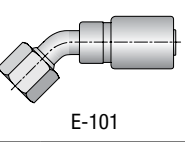
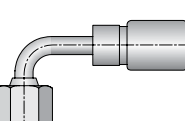
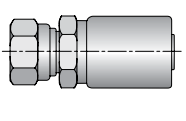
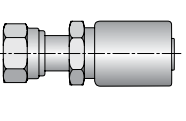
Construction: Steel

NOTE: Bulkhead Locknut sold separately.

WLNL Locknuts are Manufactured by the Tube Fittings Division. Refer to Catalog 4300 for additional information.

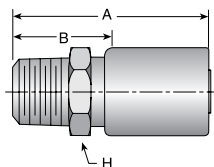
D
TransportationE
Fittings
Series SFF
Tooling, Equipment
& AccessoriesG
General Technical

HY Series Visual Index

| | | | | | |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| HY Series PERMANENT | 101 Male NPTF Pipe Rigid  E-88 | 102 Female NPTF Pipe Rigid  E-89 | 103 Male (JIC) 37°  E-89 | 105 Male SAE Str. Thread Rigid w/o-ring  E-90 | 106 SAE (JIC) 37° Swivel  E-91 |
| | 107 Female NPSM Pipe Swivel (60° cone)  E-92 | 108 Female SAE 45° Swivel  E-92 | 10G Male SAE Str. Thread Swivel w/o-ring  E-93 | 10L Male SAE Str. Thread Swivel 90° Elbow  E-93 | 111 Male Ferulok Flare-less Rigid  E-94 |
| | 113 Male NPTF Pipe Swivel  E-94 | 11L Male NPTF Pipe Swivel 90° Elbow  E-95 | 128 Male Inverted SAE 45° Swivel  E-95 | 129 Male Inverted SAE 90° Swivel  E-96 | 134 Male Standpipe Rigid  E-96 |
| | 137 FM SAE (JIC) 37° Swivel 45° Elbow  E-96 | 139 FM SAE (JIC) 37° Swivel 90° Elbow  E-97 | 13D Male Standpipe Metric S Rigid  E-100 | 141 JIC 37° Swivel 90° Elbow Long  E-97 | 167 SAE Male Inverted 45° Elbow  E-98 |
| | 169 SAE Male Inverted 90° Elbow  E-98 | 177 SAE 45° Swivel 45° Elbow  E-98 | 179 SAE 45° Swivel 90° Elbow  E-99 | 193 Female (JIC) 37° Swivel 90° Elbow BT  E-99 | 1D0 Male Metric L Rigid  E-99 |
| | 1D9 Male BSPP  E-100 | 1GJ Female Grease Connection - SPL  E-100 | 1J0 Male Seal-Lok™ Rigid Str. w/O-Ring  E-103 | 1J1 Seal-Lok™ 90° Elbow Long  E-101 | 1J7 Seal-Lok™ 45° Elbow  E-101 |
| | 1J9 Seal-Lok™ 90° Elbow  E-102 | 1JC Seal-Lok™ Swivel Short  E-102 | 1JS Seal-Lok™ Swivel Long  E-103 | | |

For detailed ordering information, please consult price list or contact Parflex® Division.

101HY Male NPTF Pipe Rigid



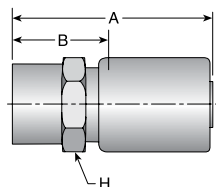
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|--------------|-----------|----|------|----|-----------------|----|--------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 101HY-2-4 | 1/8x27 | 1/4 | 6 | 2.34 | 59 | 1.00 | 25 | 5/8 |
| 101HY-4-4 | 1/4x18 | 1/4 | 6 | 2.53 | 64 | 1.19 | 30 | 9/16 |
| 101HY-4-5 | 1/4x18 | 5/16 | 8 | 2.56 | 65 | 1.22 | 31 | 11/16 |
| 101HY-4-6 | 1/4x18 | 3/8 | 10 | 2.55 | 65 | 1.19 | 30 | 11/16 |
| 101HY-6-4 | 3/8x18 | 1/4 | 6 | 2.53 | 64 | 1.19 | 30 | 3/4 |
| 101HY-6-5 | 3/8x18 | 5/16 | 8 | 2.56 | 65 | 1.22 | 31 | 3/4 |
| 101HY-6-6 | 3/8x18 | 3/8 | 10 | 2.55 | 65 | 1.19 | 30 | 3/4 |
| 101HY-6-8 | 3/8x18 | 1/2 | 13 | 2.72 | 69 | 1.38 | 35 | 7/8 |
| 101HY-8-4 | 1/2x14 | 1/4 | 6 | 2.72 | 69 | 1.38 | 35 | 7/8 |
| 101HY-8-6 | 1/2x14 | 3/8 | 10 | 2.73 | 69 | 1.38 | 35 | 7/8 |
| 101HY-8-7 | 1/2x14 | 13/32 | 10 | 2.73 | 69 | 1.38 | 35 | 7/8 |
| 101HY-8-8 | 1/2x14 | 1/2 | 13 | 2.91 | 74 | 1.41 | 40 | 7/8 |
| 101HY-8-10 | 1/2x14 | 5/8 | 16 | 2.94 | 75 | 1.59 | 40 | 1-1/8 |
| 101HY-8-12 | 1/2x14 | 3/4 | 19 | 3.08 | 78 | 1.50 | 38 | 1-1/4 |
| 101HY-12-8 | 3/4x14 | 1/2 | 13 | 2.91 | 74 | 1.56 | 40 | 1-1/16 |
| 101HY-12-10 | 3/4x14 | 5/8 | 16 | 2.98 | 76 | 1.59 | 40 | 1-1/8 |
| 101HY-12-12 | 3/4x14 | 3/4 | 19 | 3.08 | 78 | 1.50 | 38 | 1-1/4 |
| 101HY-12-16 | 3/4x14 | 1 | 25 | 3.23 | 82 | 1.63 | 41 | 1-3/8 |
| 101HY-16-12 | 1x11-1/2 | 3/4 | 19 | 3.27 | 83 | 1.69 | 43 | 1-3/8 |
| 101HY-16-14 | 1x11-1/2 | 7/8 | 22 | 3.27 | 83 | 1.78 | 43 | 1-3/8 |
| 101HY-16-16 | 1x11-1/2 | 1 | 25 | 3.42 | 87 | 1.81 | 46 | 1-3/8 |
| 101HY-20-20 | 1-1/4x11-1/2 | 1-1/4 | 32 | 3.84 | 98 | 2.00 | 51 | 1-3/4 |

Construction: Steel

Add "C" for Stainless Steel.

NOTE: Stainless steel fittings must be assembled with Karrykrimp 2, Phastkrimp™, Superkrimp or Parkrimp 2. See CrimpSource for more information.

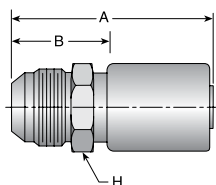
102HY Female NPTF Pipe Rigid



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 102HY-2-4 | 1/8x27 | 1/4 | 6 | 2.34 | 59 | 1.00 | 25 | 5/8 |
| 102HY-4-4 | 1/4x18 | 1/4 | 6 | 2.47 | 63 | 1.13 | 29 | 11/16 |
| 102HY-4-6 | 1/4x18 | 3/8 | 10 | 2.48 | 63 | 1.13 | 29 | 11/16 |
| 102HY-6-4 | 3/8x18 | 1/4 | 6 | 2.47 | 63 | 1.13 | 29 | 7/8 |
| 102HY-6-6 | 3/8x18 | 3/8 | 10 | 2.48 | 63 | 1.13 | 29 | 7/8 |
| 102HY-8-6 | 1/2x14 | 3/8 | 10 | 2.75 | 70 | 1.41 | 36 | 1 |
| 102HY-8-8 | 1/2x14 | 1/2 | 13 | 2.84 | 72 | 1.50 | 38 | 1 |
| 102HY-12-12 | 3/4x14 | 3/4 | 19 | 2.83 | 72 | 1.25 | 32 | 1-1/4 |
| 102HY-16-16 | 1x11-1/2 | 1 | 25 | 3.27 | 83 | 1.66 | 42 | 1-1/2 |

Construction: Steel

103HY Male JIC 37° Rigid



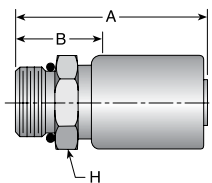
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 103HY-4-4 | 7/16x20 | 1/4 | 6 | 2.52 | 64 | 1.19 | 30 | 5/8 |
| 103HY-5-4 | 1/2x20 | 1/4 | 6 | 2.52 | 64 | 1.19 | 30 | 5/8 |
| 103HY-6-4 | 9/16x18 | 1/4 | 6 | 2.53 | 64 | 1.19 | 30 | 11/16 |
| 103HY-6-5 | 9/16x18 | 5/16 | 8 | 2.56 | 65 | 1.22 | 31 | 11/16 |
| 103HY-6-6 | 9/16x18 | 3/8 | 10 | 2.54 | 65 | 1.19 | 30 | 11/16 |
| 103HY-6-8 | 9/16x18 | 1/2 | 13 | 2.72 | 69 | 1.38 | 35 | 7/8 |
| 103HY-8-6 | 3/4x16 | 3/8 | 10 | 2.64 | 67 | 1.28 | 33 | 13/16 |
| 103HY-8-8 | 3/4x16 | 1/2 | 13 | 2.81 | 71 | 1.47 | 37 | 7/8 |
| 103HY-10-6 | 7/8x14 | 3/8 | 10 | 2.81 | 71 | 1.47 | 37 | 1 |
| 103HY-10-8 | 7/8x14 | 1/2 | 13 | 2.91 | 74 | 1.56 | 40 | 1 |
| 103HY-10-10 | 7/8x14 | 5/8 | 16 | 2.98 | 76 | 1.59 | 40 | 1-1/8 |
| 103HY-10-12 | 7/8x14 | 3/4 | 19 | 3.08 | 78 | 1.50 | 38 | 1-1/4 |
| 103HY-12-8 | 1-1/16x12 | 1/2 | 13 | 3.02 | 77 | 1.66 | 42 | 1-1/8 |
| 103HY-12-10 | 1-1/16x12 | 5/8 | 16 | 3.09 | 78 | 1.72 | 44 | 1-1/8 |
| 103HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.19 | 81 | 1.63 | 41 | 1-1/4 |
| 103HY-14-12 | 1-3/16x12 | 3/4 | 19 | 3.19 | 81 | 1.63 | 41 | 1-1/4 |
| 103HY-16-12 | 1-5/16x12 | 3/4 | 19 | 3.23 | 82 | 1.66 | 42 | 1-3/8 |
| 103HY-16-16 | 1-5/16x12 | 1 | 25 | 3.39 | 86 | 1.78 | 45 | 1-3/8 |
| 103HY-20-16 | 1-5/8x12 | 1 | 25 | 3.44 | 87 | 1.81 | 46 | 1-3/4 |
| 103HY-20-20 | 1-5/8x12 | 1-1/4 | 32 | 3.83 | 97 | 2.00 | 51 | 1-3/4 |

Construction: Steel

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

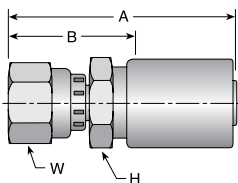
105HY Male SAE Straight Thread Rigid (with O-Ring)



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| | | inch | mm | inch | mm | inch | mm | inch |
| # | | | | | | | | |
| 105HY-4-4 | 7/16x20 | 1/4 | 6 | 2.33 | 59 | 0.97 | 25 | 9/16 |
| 105HY-5-4 | 1/2x20 | 1/4 | 6 | 2.33 | 59 | 0.97 | 25 | 5/8 |
| 105HY-6-4 | 9/16x18 | 1/4 | 6 | 2.42 | 61 | 1.06 | 27 | 11/16 |
| 105HY-6-6 | 9/16x18 | 3/8 | 10 | 2.38 | 60 | 1.03 | 26 | 11/16 |
| 105HY-8-6 | 3/4x16 | 3/8 | 10 | 2.42 | 61 | 1.06 | 27 | 7/8 |
| 105HY-8-8 | 3/4x16 | 1/2 | 13 | 2.59 | 66 | 1.25 | 32 | 7/8 |
| 105HY-10-6 | 7/8x14 | 3/8 | 10 | 2.55 | 65 | 1.19 | 30 | 1 |
| 105HY-10-8 | 7/8x14 | 1/2 | 13 | 2.66 | 68 | 1.31 | 33 | 1 |
| 105HY-10-10 | 7/8x14 | 5/8 | 16 | 2.80 | 71 | 1.41 | 36 | 1-1/8 |
| 105HY-12-8 | 1-1/16x12 | 1/2 | 13 | 2.81 | 71 | 1.47 | 37 | 1-1/4 |
| 105HY-12-10 | 1-1/16x12 | 5/8 | 16 | 2.83 | 72 | 1.44 | 37 | 1-1/4 |
| 105HY-12-12 | 1-1/16x12 | 3/4 | 19 | 2.92 | 74 | 1.34 | 34 | 1-1/4 |
| 105HY-16-12 | 1-5/16x12 | 3/4 | 19 | 2.92 | 74 | 1.34 | 34 | 1-1/2 |
| 105HY-16-16 | 1-5/16x12 | 1 | 25 | 3.08 | 78 | 1.47 | 37 | 1-1/2 |

Construction: Steel

106HY Female JIC 37°Swivel

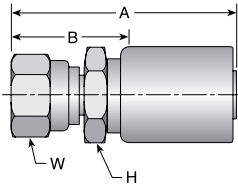


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| # | | | | | | | | | |
| 106HY-3-4 | 3/8x24 | 1/4 | 6 | 2.58 | 66 | 1.22 | 31 | 9/16 | 1/2 |
| 106HY-4-4 | 7/16x20 | 1/4 | 6 | 2.60 | 66 | 1.25 | 32 | 9/16 | 9/16 |
| 106HY-4-6 | 7/16x20 | 3/8 | 10 | 2.67 | 68 | 1.31 | 33 | 3/4 | 9/16 |
| 106HY-5-4 | 1/2x20 | 1/4 | 6 | 2.65 | 67 | 1.31 | 33 | 9/16 | 5/8 |
| 106HY-5-5 | 1/2x20 | 5/16 | 8 | 2.69 | 68 | 1.34 | 34 | 5/8 | 5/8 |
| 106HY-5-6 | 1/2x20 | 3/8 | 10 | 2.73 | 69 | 1.38 | 35 | 3/4 | 5/8 |
| 106HY-6-4 | 9/16x18 | 1/4 | 6 | 2.67 | 68 | 1.31 | 33 | 9/16 | 11/16 |
| 106HY-6-5 | 9/16x18 | 5/16 | 8 | 2.70 | 69 | 1.34 | 34 | 5/8 | 11/16 |
| 106HY-6-6 | 9/16x18 | 3/8 | 10 | 2.69 | 68 | 1.34 | 34 | 11/16 | 11/16 |
| 106HY-8-6 | 3/4x16 | 3/8 | 10 | 2.72 | 69 | 1.38 | 35 | 7/8 | 7/8 |
| 106HY-8-8 | 3/4x16 | 1/2 | 13 | 2.90 | 74 | 1.41 | 40 | 7/8 | 7/8 |
| 106HY-8-10 | 3/4x16 | 5/8 | 16 | 2.98 | 76 | 1.59 | 40 | 1-1/8 | 7/8 |
| 106HY-8-12 | 3/4x16 | 3/4 | 19 | 3.08 | 78 | 1.53 | 39 | 1-1/4 | 7/8 |
| 106HY-10-6 | 7/8x14 | 3/8 | 10 | 2.81 | 71 | 1.47 | 37 | 7/8 | 1 |
| 106HY-10-8 | 7/8x14 | 1/2 | 13 | 2.98 | 76 | 1.63 | 41 | 1 | 1 |
| 106HY-10-10 | 7/8x14 | 5/8 | 16 | 3.06 | 78 | 1.69 | 43 | 1-1/8 | 1 |
| 106HY-10-12 | 7/8x14 | 3/4 | 19 | 3.16 | 80 | 1.59 | 40 | 1-1/4 | 1 |
| 106HY-12-6 | 1-1/16x12 | 3/8 | 10 | 3.00 | 76 | 1.66 | 42 | 1-1/8 | 1-1/4 |
| 106HY-12-8 | 1-1/16x12 | 1/2 | 13 | 3.05 | 77 | 1.69 | 43 | 1-1/8 | 1-1/4 |
| 106HY-12-10 | 1-1/16x12 | 5/8 | 16 | 3.12 | 79 | 1.75 | 44 | 1-1/8 | 1-1/4 |
| 106HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.22 | 82 | 1.66 | 42 | 1-1/4 | 1-1/4 |
| 106HY-12-16 | 1-1/16x12 | 1 | 25 | 3.38 | 86 | 1.75 | 44 | 1-3/8 | 1-1/4 |
| 106HY-14-12 | 1-3/16x12 | 3/4 | 19 | 3.23 | 82 | 1.66 | 42 | 1-1/4 | 1 3/8 |
| 106HY-16-12 | 1-5/16x12 | 3/4 | 19 | 3.30 | 84 | 1.72 | 44 | 1-3/8 | 1-1/2 |
| 106HY-16-14 | 1-5/16x12 | 7/8 | 22 | 3.30 | 84 | 1.72 | 44 | 1-3/8 | 1-1/2 |
| 106HY-16-16 | 1-5/16x12 | 1 | 25 | 3.45 | 88 | 1.84 | 47 | 1-3/8 | 1-1/2 |
| 106HY-16-20 | 1-5/16x12 | 1-1/4 | 32 | 3.84 | 98 | 2.00 | 51 | 1-3/4 | 1-1/2 |
| 106HY-20-16 | 1-5/8x12 | 1 | 25 | 3.70 | 94 | 2.09 | 53 | 1-3/4 | 2 |
| 106HY-20-20 | 1-5/8x12 | 1-1/4 | 32 | 4.09 | 104 | 2.25 | 57 | 2 | 2 |

Construction: Steel

For detailed ordering information, please consult price list or contact Parflex® Division.

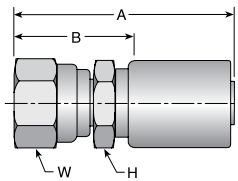
107HY Female NPSM Pipe Swivel (60° Cone)



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 107HY-4-4 | 1/4x18 | 1/4 | 6 | 2.66 | 68 | 1.31 | 33 | 9/16 | 11/16 |
| 107HY-6-4 | 3/8x18 | 1/4 | 6 | 2.72 | 69 | 1.38 | 35 | 3/4 | 7/8 |
| 107HY-6-6 | 3/8x18 | 3/8 | 10 | 2.55 | 65 | 1.19 | 30 | 3/4 | 7/8 |
| 107HY-8-8 | 1/2x14 | 1/2 | 13 | 2.91 | 74 | 1.56 | 40 | 1 | 1 |
| 107HY-12-8 | 3/4x14 | 1/2 | 13 | 3.05 | 77 | 1.69 | 43 | 1-1/4 | 1-1/4 |
| 107HY-12-12 | 3/4x14 | 3/4 | 19 | 3.22 | 82 | 1.66 | 42 | 1-1/4 | 1-1/4 |
| 107HY-16-16 | 1x11-1/2 | 1 | 25 | 3.39 | 86 | 1.78 | 45 | 1-3/8 | 1-1/2 |

Construction: Steel

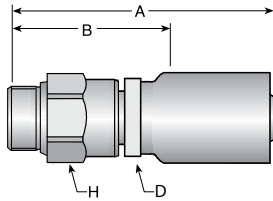
108HY Female SAE 45° Swivel



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 108HY-4-4 | 7/16x20 | 1/4 | 6 | 2.60 | 66 | 1.26 | 32 | 9/16 | 9/16 |
| 108HY-5-4 | 1/2x20 | 1/4 | 6 | 2.66 | 68 | 1.31 | 33 | 9/16 | 5/8 |
| 108HY-5-5 | 1/2x20 | 5/16 | 8 | 2.68 | 68 | 1.34 | 34 | 5/8 | 5/8 |
| 108HY-6-4 | 5/8x18 | 1/4 | 6 | 2.73 | 69 | 1.38 | 35 | 11/16 | 3/4 |
| 108HY-6-5 | 5/8x18 | 5/16 | 8 | 2.76 | 70 | 1.41 | 36 | 5/8 | 3/4 |
| 108HY-6-6 | 5/8x18 | 3/8 | 10 | 2.75 | 70 | 1.41 | 36 | 11/16 | 3/4 |
| 108HY-8-6 | 3/4x16 | 3/8 | 10 | 2.73 | 69 | 1.38 | 35 | 13/16 | 7/8 |
| 108HY-8-8 | 3/4x16 | 1/2 | 13 | 2.90 | 74 | 1.56 | 40 | 7/8 | 7/8 |
| 108HY-8-12 | 3/4x16 | 3/4 | 19 | 3.17 | 81 | 1.59 | 40 | 1-1/4 | 7/8 |
| 108HY-10-8 | 7/8x14 | 1/2 | 13 | 2.98 | 76 | 1.63 | 41 | 1 | 1 |
| 108HY-10-10 | 7/8x14 | 5/8 | 16 | 3.06 | 78 | 1.69 | 43 | 1-1/8 | 1 |
| 108HY-12-10 | 1-1/16x12 | 5/8 | 16 | 3.33 | 85 | 1.94 | 49 | 1-1/8 | 1-1/4 |
| 108HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.41 | 87 | 1.84 | 47 | 1-1/4 | 1-1/4 |

Construction: Steel

10GHY Male SAE Straight Thread Swivel (with O-Ring)

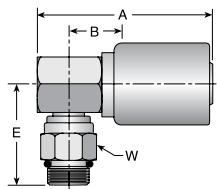


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | D |
|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 10GHY-4-4* | 7/16x20 | 1/4 | 6 | 3.21 | 82 | 1.94 | 49 | 5/8 | 1/2 |
| 10GHY-5-4* | 1/2x20 | 1/4 | 6 | 3.60 | 91 | 2.33 | 59 | 3/4 | 5/8 |
| 10GHY-6-4 | 9/16x18 | 1/4 | 6 | 3.16 | 80 | 1.81 | 46 | 11/16 | 5/8 |
| 10GHY-6-6 | 9/16x18 | 3/8 | 10 | 3.14 | 80 | 1.78 | 45 | 11/16 | 11/16 |
| 10GHY-6-8* | 9/16x18 | 3/8 | 10 | 3.80 | 97 | 2.51 | 64 | 3/4 | 7/8 |
| 10GHY-8-6 | 3/4x16 | 3/8 | 10 | 3.24 | 82 | 1.88 | 48 | 7/8 | 13/16 |
| 10GHY-8-8 | 3/4x16 | 1/2 | 13 | 3.36 | 85 | 2.00 | 51 | 7/8 | 7/8 |
| 10GHY-10-8 | 7/8x14 | 1/2 | 13 | 3.44 | 87 | 2.09 | 53 | 1 | 1 |
| 10GHY-12-8 | 1-1/16x12 | 1/2 | 13 | 3.66 | 93 | 2.31 | 59 | 1-1/4 | 1-1/4 |
| 10GHY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.89 | 99 | 2.31 | 59 | 1-1/4 | 1-1/4 |
| 10GHY-16-16 | 1-5/16x12 | 1 | 25 | 3.95 | 100 | 2.34 | 59 | 1-1/2 | 1-3/8 |

Construction: Steel

NOTE: *Fittings "D" dimension is round rather than hex. Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on extensive or continuous swiveling.

10LHY Male SAE Straight Thread Swivel 90° Elbow (with O-Ring)

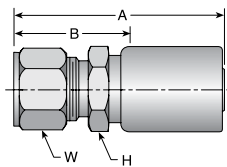


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 10LHY-4-4 | 7/16x20 | 1/4 | 6 | 2.31 | 59 | 0.97 | 25 | 1.63 | 41 | 11/16 |
| 10LHY-6-4 | 9/16x18 | 1/4 | 6 | 2.31 | 59 | 0.97 | 25 | 1.66 | 42 | 7/8 |
| 10LHY-6-6 | 9/16x18 | 3/8 | 10 | 2.33 | 59 | 0.97 | 25 | 1.66 | 42 | 11/16 |
| 10LHY-8-4 | 3/4x16 | 1/4 | 6 | 2.31 | 59 | 0.94 | 24 | 1.75 | 44 | 7/8 |
| 10LHY-8-6 | 3/4x16 | 3/8 | 10 | 2.33 | 59 | 0.97 | 25 | 1.73 | 44 | 7/8 |
| 10LHY-8-8 | 3/4x16 | 1/2 | 13 | 3.00 | 76 | 1.09 | 28 | 1.80 | 46 | 7/8 |
| 10LHY-10-8 | 7/8x14 | 1/2 | 13 | 3.00 | 76 | 1.09 | 28 | 1.88 | 48 | 1 |
| 10LHY-12-12 | 1-1/16x12 | 3/4 | 19 | 2.77 | 70 | 1.19 | 30 | 2.23 | 57 | 1-1/4 |

Construction: Steel

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

111HY Male Ferulok Flareless Rigid (24° Cone w/Nut and Ferrule)

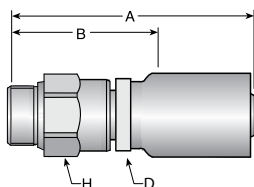


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 111HY-4-4 | 7/16x20 | 1/4 | 6 | 2.42 | 61 | 1.06 | 27 | 9/16 | 9/16 |
| 111HY-4-6 | 7/16x20 | 3/8 | 10 | 2.44 | 62 | 1.09 | 28 | 3/4 | 9/16 |
| 111HY-5-6 | 1/2x20 | 3/8 | 10 | 2.44 | 62 | 1.09 | 28 | 3/4 | 5/8 |
| 111HY-6-4 | 9/16x18 | 1/4 | 6 | 2.44 | 62 | 1.09 | 28 | 5/8 | 11/16 |
| 111HY-6-6 | 9/16x18 | 3/8 | 10 | 2.45 | 62 | 1.09 | 28 | 11/16 | 11/16 |
| 111HY-8-6 | 3/4x16 | 3/8 | 10 | 2.61 | 66 | 1.25 | 32 | 7/8 | 7/8 |
| 111HY-8-8 | 3/4x16 | 1/2 | 13 | 2.72 | 69 | 1.38 | 35 | 7/8 | 7/8 |
| 111HY-10-8 | 7/8x14 | 1/2 | 13 | 2.78 | 71 | 1.44 | 37 | 1 | 1 |
| 111HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.02 | 77 | 1.44 | 37 | 1-1/4 | 1-1/4 |

Construction: Steel

NOTE: The Parker Ferrule-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on the job repairs. See page G-29 for Ferrule-Fix installation instructions.

113HY Male NPTF Pipe Swivel



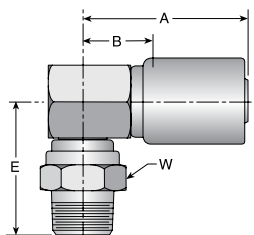
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | D |
|--------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 113HY-2-4 | 1/8x27 | 1/4 | 6 | 3.61 | 92 | 2.34 | 59 | 5/8 | 9/16 |
| 113HY-4-4 | 1/4x18 | 1/4 | 6 | 3.35 | 85 | 2.08 | 53 | 5/8 | 1/2 |
| 113HY-4-6 | 1/4x18 | 3/8 | 10 | 3.36 | 85 | 2.08 | 53 | 5/8 | 11/16 |
| 113HY-6-4 | 3/8x18 | 1/4 | 6 | 3.46 | 89 | 2.19 | 56 | 3/4 | 5/8 |
| 113HY-6-6 | 3/8x18 | 3/8 | 10 | 3.47 | 89 | 2.19 | 56 | 3/4 | 11/16 |
| 113HY-6-8 | 3/8x18 | 1/2 | 13 | 3.63 | 92 | 2.34 | 59 | 3/4 | 7/8 |
| 113HY-8-4 | 1/2x14 | 3/8 | 10 | 3.66 | 93 | 2.39 | 61 | 7/8 | 13/16 |
| 113HY-8-6 | 1/2x14 | 3/8 | 10 | 3.68 | 93 | 2.40 | 61 | 7/8 | 13/16 |
| 113HY-8-8 | 1/2x14 | 1/2 | 13 | 3.80 | 97 | 2.51 | 64 | 7/8 | 7/8 |
| 113HY-12-12* | 3/4x14 | 3/4 | 25 | 3.95 | 100 | 2.38 | 60 | 1-1/4 | 1-1/4 |
| 113HY-16-16* | 1x11-1/2 | 1 | 25 | 4.23 | 107 | 2.63 | 67 | 1-1/2 | 1-1/2 |

Construction: Steel

NOTE: * Fittings "D" dimension is a hex rather than round.

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous swiveling. See Hose Products Catalog 4400 for pressure limitations.

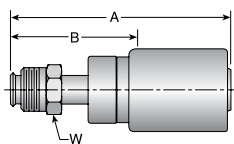
11LHY Male NPTF Pipe Swivel 90° Elbow



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 11LHY-2-4 | 1/8x27 | 1/4 | 6 | 2.31 | 59 | 0.97 | 25 | 1.50 | 38 | 5/8 |
| 11LHY-4-4 | 1/4x18 | 1/4 | 6 | 2.31 | 59 | 0.97 | 25 | 1.69 | 43 | 11/16 |
| 11LHY-4-6 | 1/4x18 | 3/8 | 10 | 2.33 | 59 | 0.97 | 25 | 1.69 | 43 | 11/16 |
| 11LHY-6-4 | 3/8x18 | 1/4 | 6 | 2.31 | 59 | 0.97 | 25 | 1.63 | 41 | 11/16 |
| 11LHY-6-6 | 3/8x8 | 3/8 | 10 | 2.33 | 59 | 0.97 | 25 | 1.63 | 41 | 11/16 |
| 11LHY-8-6 | 1/2x14 | 3/8 | 10 | 2.73 | 69 | 0.97 | 25 | 1.88 | 48 | 7/8 |
| 11LHY-8-8 | 1/2x14 | 1/2 | 13 | 3.00 | 76 | 1.09 | 28 | 1.93 | 49 | 7/8 |

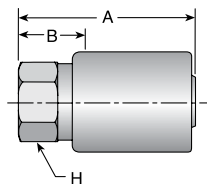
Construction: Steel

128HY Male Inverted SAE 45° Swivel



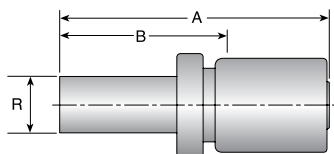
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 128HY-3-4 | 3/8x24 | 1/4 | 6 | 3.09 | 78 | 1.75 | 44 | 3/8 |
| 128HY-4-4 | 7/16x24 | 1/4 | 6 | 3.28 | 83 | 1.94 | 49 | 7/16 |
| 128HY-5-4 | 1/2x20 | 1/4 | 6 | 3.34 | 85 | 2.00 | 51 | 1/2 |
| 128HY-5-6 | 1/2x20 | 3/8 | 10 | 3.17 | 81 | 1.81 | 46 | 1/2 |
| 128HY-6-5 | 5/8x18 | 5/16 | 8 | 3.75 | 95 | 2.41 | 61 | 5/8 |
| 128HY-6-6 | 5/8x18 | 3/8 | 10 | 3.73 | 95 | 2.38 | 60 | 5/8 |
| 128HY-7-6 | 11/16x18 | 3/8 | 10 | 3.73 | 95 | 2.38 | 60 | 11/16 |
| 128HY-8-6 | 3/4x18 | 3/8 | 10 | 3.42 | 87 | 2.06 | 52 | 3/4 |
| 128HY-8-8 | 3/4x18 | 1/2 | 13 | 3.66 | 93 | 2.31 | 59 | 3/4 |

Construction: Steel

A
Hose**129HY Female Inverted SAE 45° Rigid**

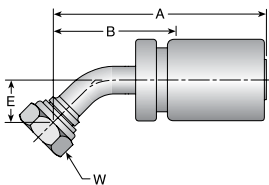
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 129HY-5-4 | 1/2x20 | 1/4 | 6 | 2.25 | 57 | 0.91 | 23 | 5/8 |
| 129HY-6-6 | 5/8x18 | 3/8 | 10 | 2.25 | 57 | 0.91 | 23 | 7/8 |

Construction: Steel

B
Tubing**134HY Male Standpipe Rigid (Inch Size Tube O.D.)**

| Part Number | Diameter R | | Hose I.D. | | A | | Cutoff Allow. B | |
|-------------|------------|----|-----------|----|------|----|-----------------|----|
| # | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm |
| 134HY-6-6 | 3/8 | 10 | 3/8 | 10 | 3.17 | 81 | 1.81 | 46 |
| 134HY-8-6 | 1/2 | 13 | 3/8 | 10 | 3.33 | 85 | 1.97 | 50 |
| 134HY-12-12 | 3/4 | 19 | 3/4 | 19 | 3.89 | 99 | 2.31 | 59 |

Construction: Steel

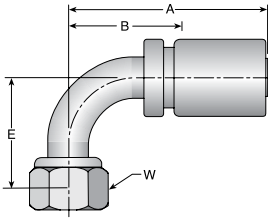
C
Coiled Air Hose
& FittingsD
Transportation**137HY Female JIC 37° Swivel 45° Elbow Short Drop**

| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 137HY-4-4 | 7/16x20 | 1/4 | 6 | 2.59 | 66 | 1.32 | 34 | 0.39 | 10 | 9/16 |
| 137HY-5-4 | 1/2x20 | 1/4 | 6 | 3.27 | 83 | 1.91 | 49 | 0.36 | 9 | 5/8 |
| 137HY-6-4 | 9/16x18 | 1/4 | 6 | 2.70 | 69 | 1.43 | 36 | 0.43 | 10 | 3/4 |
| 137HY-6-5 | 9/16x18 | 5/16 | 8 | 3.34 | 85 | 2.00 | 51 | 0.39 | 11 | 11/16 |
| 137HY-6-6 | 9/16x18 | 3/8 | 10 | 2.72 | 69 | 1.44 | 37 | 0.43 | 11 | 11/16 |
| 137HY-8-6 | 3/4x16 | 3/8 | 10 | 2.88 | 73 | 1.60 | 41 | 0.58 | 15 | 7/8 |
| 137HY-8-8 | 3/4x16 | 1/2 | 13 | 3.10 | 79 | 1.81 | 46 | 0.59 | 15 | 7/8 |
| 137HY-10-8 | 7/8x14 | 1/2 | 13 | 3.20 | 81 | 1.91 | 49 | 0.63 | 16 | 1 |
| 137HY-10-10 | 7/8x14 | 5/8 | 16 | 3.29 | 84 | 1.93 | 49 | 0.63 | 16 | 1 |
| 137HY-12-10 | 1-1/16x12 | 5/8 | 16 | 3.94 | 100 | 2.56 | 65 | 0.77 | 20 | 1-1/8 |
| 137HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.82 | 97 | 2.29 | 58 | 0.83 | 21 | 1-1/4 |
| 137HY-16-12 | 1-5/16x12 | 3/4 | 19 | 4.35 | 110 | 2.78 | 71 | 0.89 | 23 | 1-1/2 |
| 137HY-16-16 | 1-5/16x12 | 1 | 25 | 4.31 | 109 | 2.69 | 68 | 0.89 | 23 | 1-1/2 |

Construction: Steel

E
Fittings
Series HYF
Tooling, Equipment
& AccessoriesG
General Technical

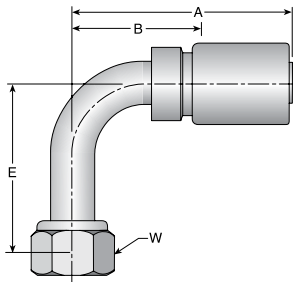
139HY Female JIC 37° Swivel 90° Elbow Short Drop



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 139HY-4-4 | 7/16x20 | 1/4 | 6 | 2.40 | 61 | 1.13 | 29 | 0.83 | 21 | 9/16 |
| 139HY-5-4 | 1/2x20 | 1/4 | 6 | 2.50 | 64 | 1.23 | 31 | 0.83 | 21 | 5/8 |
| 139HY-6-4 | 9/16x18 | 1/4 | 6 | 2.65 | 67 | 1.38 | 35 | 0.91 | 23 | 11/16 |
| 139HY-6-5 | 9/16x18 | 5/16 | 8 | 3.25 | 83 | 1.91 | 49 | 0.86 | 22 | 11/16 |
| 139HY-6-6 | 9/16x18 | 3/8 | 10 | 2.57 | 65 | 1.29 | 33 | 0.91 | 23 | 11/16 |
| 139HY-6-8 | 9/16x18 | 1/2 | 13 | 3.41 | 87 | 2.06 | 52 | 0.86 | 22 | 11/16 |
| 139HY-8-6 | 3/4x16 | 3/8 | 10 | 2.64 | 67 | 1.37 | 35 | 1.14 | 29 | 7/8 |
| 139HY-8-8 | 3/4x16 | 1/2 | 13 | 2.85 | 72 | 1.56 | 40 | 1.14 | 29 | 7/8 |
| 139HY-10-8 | 7/8x14 | 1/2 | 13 | 3.01 | 76 | 1.72 | 44 | 1.26 | 32 | 1 |
| 139HY-10-10 | 7/8x14 | 5/8 | 16 | 3.09 | 78 | 1.73 | 44 | 1.26 | 32 | 1 |
| 139HY-10-12 | 7/8x14 | 3/4 | 19 | 3.25 | 83 | 1.69 | 43 | 1.23 | 31 | 1 |
| 139HY-12-8 | 1-1/16x12 | 1/2 | 13 | 3.61 | 92 | 2.25 | 57 | 1.83 | 46 | 1-1/4 |
| 139HY-12-10 | 1-1/16x12 | 5/8 | 16 | 3.61 | 92 | 2.25 | 57 | 1.89 | 48 | 1-1/4 |
| 139HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.68 | 93 | 2.15 | 55 | 1.89 | 48 | 1-1/4 |
| 139HY-16-12 | 1-5/16x12 | 3/4 | 19 | 4.33 | 110 | 2.78 | 71 | 2.14 | 54 | 1-1/2 |
| 139HY-16-16 | 1-5/16x12 | 1 | 25 | 4.31 | 109 | 2.69 | 68 | 2.31 | 59 | 1-1/2 |

Construction: Steel

141HY Female JIC 37° Swivel 90° Elbow Long Drop



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|-----|-------|
| # | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 141HY-4-4 | 7/16x20 | 1/4 | 6 | 2.68 | 68 | 1.41 | 36 | 1.81 | 46 | 9/16 |
| 141HY-5-4 | 1/2x20 | 1/4 | 6 | 3.16 | 80 | 1.81 | 46 | 1.77 | 45 | 5/8 |
| 141HY-6-4 | 9/16x18 | 1/4 | 6 | 2.89 | 73 | 1.62 | 41 | 2.13 | 54 | 11/16 |
| 141HY-6-6 | 9/16x18 | 3/8 | 10 | 2.76 | 70 | 1.49 | 39 | 2.13 | 54 | 11/16 |
| 141HY-8-6 | 3/4x16 | 3/8 | 10 | 2.85 | 72 | 1.58 | 40 | 2.52 | 64 | 7/8 |
| 141HY-8-8 | 3/4x16 | 1/2 | 13 | 2.89 | 73 | 1.60 | 41 | 2.52 | 64 | 7/8 |
| 141HY-10-8 | 7/8x14 | 1/2 | 13 | 3.01 | 76 | 1.72 | 44 | 2.76 | 70 | 1 |
| 141HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.59 | 91 | 2.03 | 52 | 3.73 | 95 | 1-1/4 |
| 141HY-16-16 | 1-5/16x12 | 1 | 25 | 4.56 | 116 | 2.94 | 75 | 4.33 | 110 | 1-1/2 |

Construction: Steel

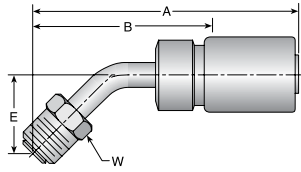
For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

E-97

Hose
ATubing
BCoiled Air Hose
& Fittings
CTransportation
DFittings
Series HY
ETooling, Equipment
& Accessories
FGeneral Technical
G

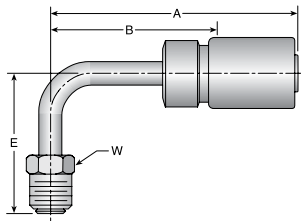
167HY Male Inverted SAE 45° Swivel 45° Elbow



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 167HY-4-4 | 7/16x24 | 1/4 | 6 | 3.31 | 84 | 1.97 | 50 | 0.78 | 20 | 7/16 |
| 167HY-5-4 | 1/2x20 | 1/4 | 6 | 3.55 | 90 | 2.19 | 56 | 0.88 | 22 | 1/2 |
| 167HY-5-6 | 1/2x20 | 3/8 | 10 | 3.38 | 86 | 2.03 | 52 | 0.88 | 22 | 1/2 |
| 167HY-6-6 | 5/8x18 | 3/8 | 10 | 4.16 | 106 | 2.81 | 71 | 0.94 | 24 | 5/8 |
| 167HY-8-8 | 3/4x18 | 1/2 | 13 | 4.22 | 107 | 2.88 | 73 | 1.06 | 27 | 3/4 |

Construction: Steel

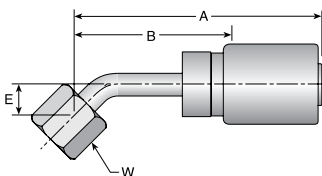
169HY Male Inverted SAE 45° Swivel 90° Elbow



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 169HY-3-4 | 3/8x24 | 1/4 | 6 | 3.09 | 78 | 1.75 | 44 | 1.38 | 35 | 3/8 |
| 169HY-4-4 | 7/16x24 | 1/4 | 6 | 3.28 | 83 | 1.94 | 49 | 1.47 | 37 | 7/16 |
| 169HY-4-6 | 7/16x24 | 3/8 | 10 | 3.11 | 79 | 1.75 | 44 | 1.47 | 37 | 7/16 |
| 169HY-5-4 | 1/2x20 | 1/4 | 6 | 3.52 | 89 | 2.16 | 55 | 1.66 | 42 | 1/2 |
| 169HY-5-6 | 1/2x20 | 3/8 | 10 | 3.34 | 85 | 2.00 | 51 | 1.66 | 42 | 1/2 |
| 169HY-6-5 | 5/8x18 | 5/16 | 8 | 4.05 | 103 | 2.69 | 68 | 1.69 | 43 | 5/8 |
| 169HY-6-6 | 5/8x18 | 3/8 | 10 | 4.03 | 102 | 2.69 | 68 | 1.69 | 43 | 5/8 |
| 169HY-7-6 | 11/16x18 | 3/8 | 10 | 4.16 | 106 | 2.81 | 71 | 1.69 | 43 | 11/16 |
| 169HY-8-8 | 3/4x18 | 1/2 | 13 | 4.09 | 104 | 2.75 | 70 | 1.88 | 48 | 3/4 |

Construction: Steel

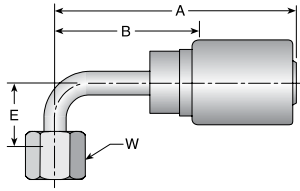
177HY Female SAE 45° Swivel 45° Elbow



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 177HY-6-6 | 5/8x18 | 3/8 | 10 | 3.33 | 85 | 1.97 | 50 | 0.39 | 10 | 3/4 |
| 177HY-12-12 | 1-1/16x14 | 3/4 | 19 | 4.03 | 102 | 2.44 | 62 | 0.77 | 20 | 1-1/4 |

Construction: Steel

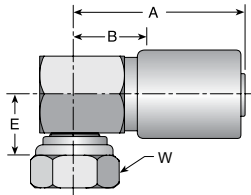
179HY Female SAE 45° Swivel 90° Elbow



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 179HY-6-5 | 5/8x18 | 5/16 | 8 | 3.25 | 83 | 1.91 | 49 | 0.86 | 22 | 3/4 |
| 179HY-6-6 | 5/8x18 | 3/8 | 10 | 3.23 | 82 | 1.88 | 48 | 0.86 | 22 | 3/4 |
| 179HY-12-12 | 1-1/16x14 | 3/4 | 19 | 3.98 | 101 | 2.39 | 61 | 1.83 | 46 | 1-1/4 |

Construction: Steel

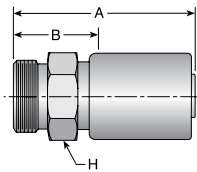
193HY Female JIC 37° Swivel 90° Elbow (Block Type)



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 193HY-6-6 | 9/16x18 | 3/8 | 10 | 2.33 | 59 | 0.97 | 25 | 0.78 | 20 | 11/16 |
| 193HY-8-6 | 3/4x16 | 3/8 | 10 | 2.33 | 59 | 0.97 | 25 | 0.82 | 21 | 7/8 |
| 193HY-8-8 | 3/4x16 | 1/2 | 13 | 3.00 | 76 | 1.09 | 28 | 0.85 | 22 | 7/8 |
| 193HY-12-12 | 1-1/16x12 | 3/4 | 19 | 3.33 | 85 | 1.19 | 30 | 0.99 | 25 | 1-1/4 |

Construction: Steel

1D0HY Male Metric L Rigid (24° Cone) ISO 8434-1

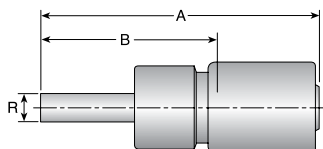


| Part Number | Thread Size | | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|---------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | | |
| | mm | | inch | mm | inch | mm | inch | mm | inch |
| 1D0HY-6-4 | 6 | M12x1.5 | 1/4 | 6 | 2.36 | 60 | 1.00 | 25 | 14 |
| 1D0HY-8-4 | 8 | M14x1.5 | 1/4 | 6 | 2.36 | 60 | 1.00 | 25 | 17 |
| 1D0HY-10-4 | 10 | M16x1.5 | 1/4 | 6 | 2.40 | 61 | 1.03 | 26 | 19 |
| 1D0HY-10-6 | 10 | M16x1.5 | 3/8 | 10 | 2.42 | 61 | 1.06 | 27 | 19 |
| 1D0HY-12-6 | 12 | M18x1.5 | 3/8 | 10 | 2.42 | 61 | 1.06 | 27 | 22 |
| 1D0HY-15-6 | 15 | M22x1.5 | 3/8 | 10 | 2.52 | 64 | 1.16 | 29 | 24 |
| 1D0HY-15-8 | 15 | M22x1.5 | 1/2 | 13 | 2.63 | 67 | 1.28 | 33 | 24 |
| 1D0HY-18-10 | 18 | M26x1.5 | 5/8 | 16 | 2.71 | 69 | 1.31 | 33 | 27 |

Construction: Steel

A
Hose

13DHY Male Standpipe Metric S Rigid ISO 8434-1

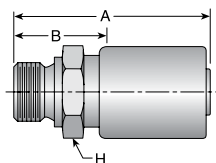


| Part Number | Diameter R | | Hose I.D. | | A | | Cutoff Allow. B | |
|-------------|------------|------|-----------|----|------|-----|-----------------|----|
| # | | | | | | | | |
| | mm | inch | inch | mm | inch | mm | inch | mm |
| 13DHY-16-8 | 16 | 0.63 | 1/2 | 13 | 3.53 | 90 | 2.16 | 55 |
| 13DHY-30-16 | 30 | 1.18 | 1 | 25 | 4.15 | 105 | 2.53 | 64 |

Construction: Steel

B
TubingC
Coiled Air Hose
& Fittings

1D9HY Male BSP Parallel Pipe Rigid (60° Cone) ISO 228-1



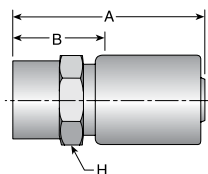
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|--------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1D9HY-4-4 | 1/4x19 | 1/4 | 6 | 2.40 | 61 | 1.03 | 26 | 13/16 |
| 1D9HY-6-6 | 3/8x19 | 3/8 | 10 | 2.55 | 65 | 1.19 | 30 | 7/8 |
| 1D9HY-8-6 | 1/2x14 | 3/8 | 10 | 2.65 | 67 | 1.28 | 33 | 1-1/16 |
| 1D9HY-8-8 | 1/2x14 | 1/2 | 13 | 2.83 | 72 | 1.47 | 37 | 1-1/16 |

Construction: Steel

NOTE: When used in a port, a bonded seal must be used.

D
TransportationE
Fittings
Series HY

1GJHY Female Grease Connection -SPL- PTF Taper Thread Rigid 1/2 x 27

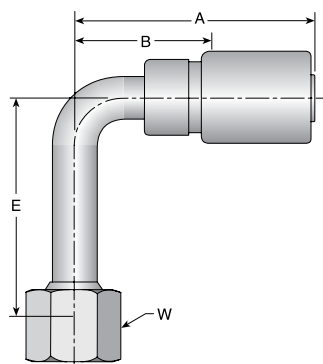


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch |
| 1GJHY-8-4 | 1/2x27 | 1/4 | 6 | 2.41 | 61 | 1.06 | 27 | 3/4 |

Construction: Steel

F
Tooling, Equipment
& AccessoriesG
General Technical

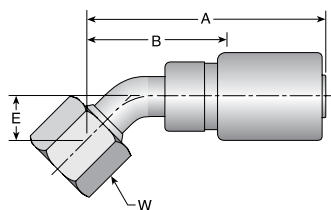
1J1HY Female Seal-Lok™ Swivel 90° Elbow Long Drop ISO 12151-1 - SWEL90



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|-----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J1HY-4-4 | 9/16x18 | 1/4 | 6 | 2.68 | 68 | 1.41 | 36 | 1.81 | 46 | 11/16 |
| 1J1HY-6-4 | 11/16x16 | 1/4 | 6 | 2.89 | 73 | 1.62 | 41 | 2.13 | 54 | 13/16 |
| 1J1HY-6-6 | 11/16x16 | 3/8 | 10 | 2.76 | 70 | 1.49 | 38 | 2.13 | 54 | 13/16 |
| 1J1HY-8-6 | 13/16x16 | 3/8 | 10 | 2.85 | 72 | 1.58 | 40 | 2.52 | 64 | 15/16 |
| 1J1HY-8-8 | 13/16x16 | 1/2 | 13 | 2.94 | 75 | 1.65 | 42 | 2.52 | 64 | 15/16 |
| 1J1HY-10-8 | 1x14 | 1/2 | 13 | 3.01 | 76 | 1.72 | 44 | 2.76 | 70 | 1-1/8 |
| 1J1HY-10-10 | 1x14 | 5/8 | 16 | 3.42 | 87 | 2.03 | 52 | 2.76 | 70 | 1-1/8 |
| 1J1HY-12-12 | 1-3/16x12 | 3/4 | 19 | 3.68 | 93 | 2.15 | 55 | 3.78 | 96 | 1-3/8 |
| 1J1HY-16-16 | 1-7/16x12 | 1 | 25 | 4.45 | 113 | 2.84 | 72 | 4.50 | 114 | 1-5/8 |

Construction: Steel

1J7HY Female Seal-Lok™ Swivel 45° Elbow ISO 12151-1 - SWE45



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J7HY-4-4 | 9/16x18 | 1/4 | 6 | 2.59 | 66 | 1.32 | 34 | 0.39 | 10 | 11/16 |
| 1J7HY-6-4 | 11/16x16 | 1/4 | 6 | 2.70 | 69 | 1.43 | 36 | 0.43 | 11 | 13/16 |
| 1J7HY-6-6 | 11/16x16 | 3/8 | 10 | 2.72 | 69 | 1.44 | 37 | 0.43 | 11 | 13/16 |
| 1J7HY-6-8 | 11/16x16 | 1/2 | 13 | 3.41 | 87 | 2.06 | 52 | 0.44 | 11 | 13/16 |
| 1J7HY-8-4 | 13/16x16 | 1/4 | 6 | 2.95 | 75 | 1.68 | 43 | 0.59 | 15 | 15/16 |
| 1J7HY-8-6 | 13/16x16 | 3/8 | 10 | 2.89 | 73 | 1.62 | 41 | 0.59 | 15 | 15/16 |
| 1J7HY-8-8 | 13/16x16 | 1/2 | 13 | 3.10 | 79 | 1.81 | 46 | 0.59 | 15 | 15/16 |
| 1J7HY-10-8 | 1x14 | 1/2 | 13 | 3.20 | 81 | 1.91 | 49 | 0.63 | 16 | 1-1/8 |
| 1J7HY-10-10 | 1x14 | 5/8 | 16 | 3.29 | 84 | 1.93 | 49 | 0.63 | 16 | 1-1/8 |
| 1J7HY-10-12 | 1x14 | 3/4 | 19 | 3.69 | 94 | 2.13 | 54 | 0.69 | 18 | 1-1/8 |
| 1J7HY-12-10 | 1-3/16x12 | 5/8 | 16 | 3.74 | 104 | 2.38 | 60 | 0.83 | 21 | 1-3/8 |
| 1J7HY-12-12 | 1-3/16x12 | 3/4 | 19 | 3.82 | 97 | 2.29 | 58 | 0.83 | 21 | 1-3/8 |
| 1J7HY-16-12 | 1-7/16x12 | 3/4 | 19 | 4.39 | 112 | 2.84 | 72 | 0.97 | 25 | 1-5/8 |
| 1J7HY-16-16 | 1-7/16x12 | 1 | 25 | 4.55 | 116 | 2.94 | 75 | 0.97 | 25 | 1-5/8 |

Construction: Steel

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

E-101

A Hose

B Tubing

C Coiled Air Hose & Fittings

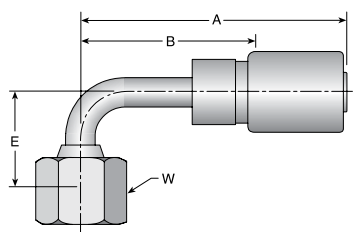
D Transportation

E Fittings Series HY

F Tooling, Equipment & Accessories

G General Technical

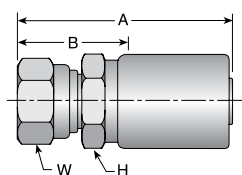
1J9HY Female Seal-Lok™ Swivel 90° Elbow Short Drop ISO 12151-1 - SWES90



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | E | | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|------|----|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 1J9HY-4-4 | 9/16x18 | 1/4 | 6 | 2.40 | 61 | 1.13 | 29 | 0.83 | 21 | 11/16 |
| 1J9HY-4-6 | 9/16x18 | 3/8 | 10 | 3.08 | 78 | 1.72 | 44 | 0.83 | 21 | 11/16 |
| 1J9HY-6-4 | 11/16x16 | 1/4 | 6 | 2.65 | 67 | 1.38 | 35 | 0.91 | 23 | 13/16 |
| 1J9HY-6-5 | 11/16x16 | 5/16 | 8 | 3/14 | 80 | 1.72 | 44 | 0.91 | 23 | 13/16 |
| 1J9HY-6-6 | 11/16x16 | 3/8 | 10 | 2.57 | 65 | 1.29 | 33 | 0.91 | 23 | 13/16 |
| 1J9HY-6-8 | 11/16x16 | 1/2 | 13 | 2.77 | 70 | 1.48 | 38 | 0.91 | 23 | 13/16 |
| 1J9HY-8-6 | 13/16x16 | 3/8 | 10 | 2.64 | 67 | 1.37 | 35 | 1.14 | 29 | 15/16 |
| 1J9HY-8-8 | 13/16x16 | 1/2 | 13 | 2.85 | 72 | 1.56 | 40 | 1.14 | 29 | 15/16 |
| 1J9HY-10-8 | 1x14 | 1/2 | 13 | 3.01 | 76 | 1.72 | 44 | 1.26 | 32 | 1-1/8 |
| 1J9HY-10-10 | 1x14 | 5/8 | 16 | 3.09 | 78 | 1.73 | 44 | 1.26 | 32 | 1-1/8 |
| 1J9HY-10-12 | 1x14 | 3/4 | 19 | 3.52 | 89 | 1.97 | 50 | 1.33 | 34 | 1-1/8 |
| 1J9HY-12-8 | 1-3/16x12 | 1/2 | 13 | 3.84 | 98 | 2.39 | 61 | 1.89 | 48 | 1-3/8 |
| 1J9HY-12-10 | 1-3/16x12 | 5/8 | 16 | 3.61 | 92 | 2.25 | 57 | 1.89 | 48 | 1-3/8 |
| 1J9HY-12-12 | 1-3/16x12 | 3/4 | 19 | 3.68 | 93 | 2.15 | 55 | 1.89 | 48 | 1-3/8 |
| 1J9HY-16-12 | 1-7/16x12 | 3/4 | 19 | 4.27 | 108 | 2.69 | 68 | 2.25 | 57 | 1-5/8 |
| 1J9HY-16-16 | 1-7/16x12 | 1 | 25 | 4.45 | 113 | 2.84 | 72 | 2.25 | 57 | 1-5/8 |
| 1J9HY-20-16 | 1-11/16x12 | 1 | 25 | 4.77 | 121 | 3.16 | 80 | 2.51 | 64 | 1-7/8 |

Construction: Steel

1JCHY Female Seal-Lok™ Swivel Short ISO 12151-1 - SWSA

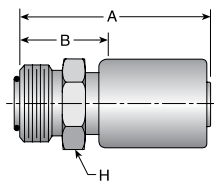


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1JCHY-4-4 | 9/16x18 | 1/4 | 6 | 2.61 | 66 | 0.94 | 24 | 9/16 | 11/16 |
| 1JCHY-6-6 | 11/16x16 | 3/8 | 10 | 2.69 | 68 | 0.94 | 24 | 11/16 | 13/16 |
| 1JCHY-8-8 | 13/16x16 | 1/2 | 13 | 2.91 | 74 | 1.13 | 29 | 7/8 | 15/16 |
| 1JCHY-12-12 | 1-3/16x12 | 3/4 | 19 | 3.31 | 84 | 1.13 | 29 | 1-1/4 | 1-3/8 |

Construction: Steel

1JOHY Male Seal-Lok™ Rigid (with O-Ring)

ISO 1215-1 - S

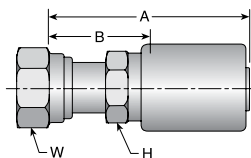


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|
| | | inch | mm | inch | mm | inch | mm | inch |
| # | | | | | | | | |
| 1JOHY-4-4 | 9/16x18 | 1/4 | 6 | 2.36 | 60 | 1.00 | 25 | 5/8 |
| 1JOHY-6-6 | 11/16x16 | 3/8 | 10 | 2.49 | 63 | 1.13 | 29 | 3/4 |
| 1JOHY-8-8 | 13/16x16 | 1/2 | 13 | 2.69 | 68 | 1.34 | 34 | 7/8 |
| 1JOHY-12-8 | 1-3/16x12 | 1/2 | 13 | 2.91 | 74 | 1.56 | 40 | 1-1/4 |

Construction: Steel

1JSHY Female Seal-Lok™ Swivel Long

ISO 12151-1 - SWSB



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | W Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| # | | | | | | | | | |
| 1JSHY-4-4 | 9/16x18 | 1/4 | 6 | 2.59 | 66 | 1.25 | 32 | 9/16 | 11/16 |
| 1JSHY-6-4 | 11/16x16 | 1/4 | 6 | 2.67 | 68 | 1.31 | 33 | 5/8 | 13/16 |
| 1JSHY-6-5 | 11/16x16 | 5/16 | 8 | 2.70 | 69 | 1.34 | 34 | 5/8 | 13/16 |
| 1JSHY-6-6 | 11/16x16 | 3/8 | 10 | 2.75 | 70 | 1.34 | 34 | 11/16 | 13/16 |
| 1JSHY-8-6 | 13/16x16 | 3/8 | 10 | 2.84 | 72 | 1.50 | 38 | 7/8 | 15/16 |
| 1JSHY-8-8 | 13/16x16 | 1/2 | 13 | 2.95 | 75 | 1.59 | 40 | 7/8 | 15/16 |
| 1JSHY-10-8 | 1x14 | 1/2 | 13 | 3.16 | 80 | 1.81 | 46 | 15/16 | 1-1/8 |
| 1JSHY-10-10 | 1x14 | 5/8 | 16 | 3.17 | 81 | 1.78 | 45 | 1-1/8 | 1-1/8 |
| 1JSHY-10-12 | 1x14 | 3/4 | 19 | 3.27 | 83 | 1.69 | 43 | 1-1/4 | 1-1/8 |
| 1JSHY-12-10 | 1-3/16x12 | 5/8 | 16 | 3.20 | 81 | 1.81 | 46 | 1-1/8 | 1-3/8 |
| 1JSHY-12-12 | 1-3/16x12 | 3/4 | 19 | 3.30 | 84 | 1.72 | 44 | 1-1/4 | 1-3/8 |
| 1JSHY-16-12 | 1-7/16x12 | 3/4 | 19 | 3.44 | 87 | 1.88 | 48 | 1-3/8 | 1-5/8 |
| 1JSHY-16-16 | 1-7/16x12 | 1 | 25 | 3.59 | 91 | 1.97 | 50 | 1-3/8 | 1-5/8 |
| 1JSHY-20-16 | 1-11/16x12 | 1 | 25 | 3.47 | 88 | 1.75 | 59 | 1-5/8 | 1-7/8 |
| 1JSHY-20-20 | 1-11/16x12 | 1-1/4 | 32 | 3.98 | 101 | 2.16 | 55 | 1-3/4 | 1-7/8 |

Construction: Steel

For detailed ordering information, please consult price list or contact Parflex® Division.

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LV Series Visual Index

LV Series

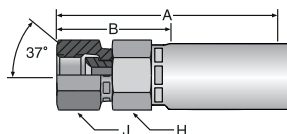
PERMANENT

106 SAE (JIC) 37° Swivel



E-104

106LV SAE (JIC) 37° Swivel

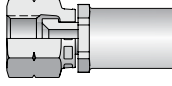
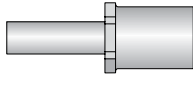
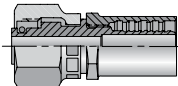


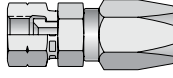
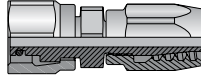
| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|-----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 106LV-4-3 | 7/16-20 | 3/16 | 6 | 1.93 | 49 | 15/16 | 24 | 9/16 | 9/16 |
| 106LV-12-12 | 1-1/16-12 | 3/4 | 19 | 4.12 | 105 | 1-13/16 | 46 | 1-1/8 | 1-1/4 |
| 106LV-16-16 | 1-5/16-12 | 1 | 25 | 4.81 | 122 | 1-13/16 | 46 | 1-3/8 | 1-1/2 |

Construction: Steel nipple, nut and shell.

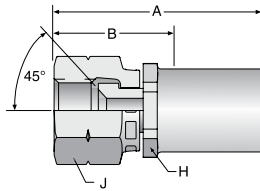
Add "C" for Stainless Steel.

MS Series Visual Index

| | | | |
|---------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| MS Series FIELD ATTACHABLE | 108 SAE 45° Swivel | 134 Straight Tube | 1TF Marine Tube Connector |
| |  E-105 |  E-105 |  E-106 |

| | | |
|---------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| MS Series FIELD ATTACHABLE | 208 SAE 45° Swivel | 2TF Marine Tube Connector |
| |  E-106 |  E-106 |

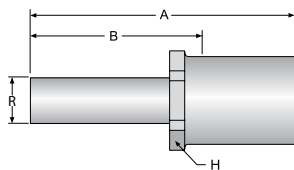
108MS Permanent SAE 45° Swivel (Brass)



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | H Hex | J Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 108MS-6-5B | 5/8-18 | 5/16 | 8 | 1.72 | 44 | 1-1/8 | 29 | 5/8 | 13/16 |
| 108MS-6-6B | 5/8-18 | 3/8 | 10 | 1.82 | 46 | 1-1/16 | 27 | 3/4 | 13/16 |

Construction: Brass.

134MS Permanent Straight Tube (Brass)



| Part Number | Diameter R | | Hose I.D. | | A | | Cutoff Allow. B | | H Hex |
|-------------|------------|----|-----------|----|------|----|-----------------|----|-------|
| # | | | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 134MS-6-5B | 3/8 | 10 | 5/16 | 8 | 2.00 | 51 | 1-3/8 | 35 | 5/8 |
| 134MS-6-6B | 3/8 | 10 | 3/8 | 10 | 2.08 | 53 | 1-3/8 | 35 | 3/4 |

Construction: Brass.

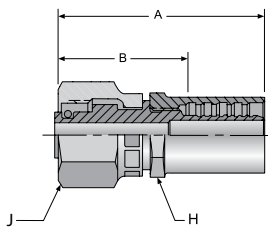
For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

E-105

Hose
ATubing
BCoiled Air Hose
& Fittings
CTransportation
DFittings
Series MS
ETooling, Equipment
& Accessories
FGeneral Technical
G

1TFMS Permanent Marine Tube Connector (Brass)

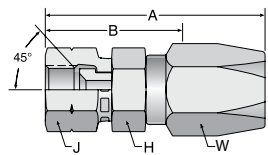


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | J Hex | H Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|
| # | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch |
| 1TFMS-6-5B | 9/16-24 | 5/16 | 8 | 1.70 | 43 | 1 1/16 | 27 | 3/4 | 5/8 |

Construction: Brass.

NOTE: Connector Mates are Manufactured by the Fluid Systems Connection Division. Refer to Catalog 3501E for Ordering, Installation Instructions and Replacement Components.

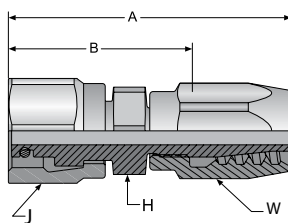
208MS Field-Attachable SAE 45° Swivel (Brass)



| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | J Hex | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| 208MS-6-5B | 5/8-18 | 5/16 | 8 | 2.06 | 52 | 1 5/16 | 33 | 13/16 | 5/8 | 13/16 |
| 208MS-6-6B | 5/8-18 | 3/8 | 10 | 2.37 | 60 | 1 7/16 | 37 | 13/16 | 5/8 | 13/16 |

Construction: Brass.

2TFMS Field-Attachable Marine Tube Connector (Brass)


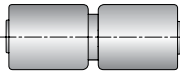


| Part Number | Thread Size | Hose I.D. | | A | | Cutoff Allow. B | | J Hex | H Hex | W Hex |
|-------------|-------------|-----------|----|------|----|-----------------|----|-------|-------|-------|
| # | | | | | | | | | | |
| | | inch | mm | inch | mm | inch | mm | inch | inch | inch |
| 2TFMS-6-5B | 9/16-24 | 5/16 | 8 | 2.02 | 51 | 1 5/16 | 33 | 3/4 | 5/8 | 3/4 |

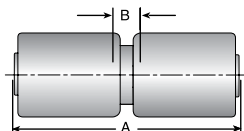
Construction: Brass.

NOTE: Connector Mates are Manufactured by the Fluid Systems Connection Division. Refer to Catalog 3501E for more information.

SQ Series Visual Index

| | | |
|-------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| SQ Series PERMANENT | 101 Male Taper Pipe Rigid | 1HU SQ Mender |
| |  E-107 |  E-107 |

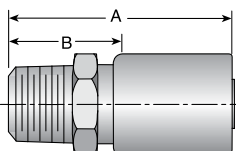
1HUSQ Mender



| Part Number | | Hose I.D. | | A | | Cutoff Allow. B | |
|-------------|-------------|-----------|----|------|-----|-----------------|----|
| # | | ⊙ | | | | | |
| Hose | | inch | mm | inch | mm | inch | mm |
| S410 | 1HUSQ-10-10 | 5/8 | 16 | 3.90 | 100 | 5/16 | 8 |
| S612 | 1HUSQ-12-12 | 3/4 | 19 | 3.70 | 94 | 9/16 | 14 |
| S616 | 1HUSQ-16-16 | 1 | 25 | 3.99 | 101 | 9/16 | 14 |
| S620 | 1HUSQ-20-20 | 1-1/4 | 32 | 4.53 | 115 | 9/16 | 14 |
| S912 | 1HUSQ-12-12 | 3/4 | 19 | 3.70 | 94 | 9/16 | 14 |
| S916 | 1HUSQ-16-16 | 1 | 25 | 3.99 | 101 | 9/16 | 14 |

Construction: Steel
NOTE: See pg. G-41 for swage die selection.

101SQ Male Taper Pipe Rigid



| Part Number | | Hose I.D. | | A | | Cutoff Allow. B | |
|-------------|-------------|-----------|----|------|----|-----------------|----|
| # | | ⊙ | | | | | |
| Hose | | inch | mm | inch | mm | inch | mm |
| S612 | 101SQ-12-12 | 3/4 | 19 | 3.08 | 78 | 1-1/2 | 38 |
| S616 | 101SQ-16-16 | 1 | 25 | 3.42 | 87 | 1-13/16 | 46 |
| S620 | 101SQ-20-20 | 1-1/4 | 32 | 3.84 | 98 | 2 | 51 |
| S912 | 101SQ-12-12 | 3/4 | 19 | 3.08 | 78 | 1-1/2 | 38 |
| S916 | 101SQ-16-16 | 1 | 25 | 3.42 | 87 | 1-13/16 | 46 |

Construction: Steel
NOTE: See pg. G-41 for swage die selection.

[illegible]

Tooling Equipment & Accessories



MiniKrimp™

Karrykrimp

Parkrimp

PHastkrimp™

Superkrimp

Pumps

Accessories



Table of Contents

Crimpers

| | |
|--------------------|------|
| Karrykrimp | F-12 |
| Karrykrimp 2 | F-12 |
| MiniKrimp™ | F-6 |
| Parkrimp 1 | F-12 |
| Parkrimp 2 | F-13 |
| PHastkrimp™ | F-13 |
| Superkrimp | F-13 |

Pumps

| | |
|--------------------------------|-------------|
| Air Over Hydraulic Pumps | F-14 : F-15 |
| Electric Pumps | F-15 |
| Hand Pumps | F-14 |

| | |
|--------------------------------------------------------------------|------|
| Conversion Kits - Hydraulic Press, Gates, Weatherhead | F-16 |
|--------------------------------------------------------------------|------|

Sewer Hose Swager & Swage Tooling

| | |
|-------------------------------|------|
| SQ-101-SW Swager/Mender | F-17 |
|-------------------------------|------|

Accessories


| | |
|---------------------------|-------------|
| Cut-off Tools | F-18 : F-19 |
| Dies (Parkrimp) | F-20 |
| Die Racks | F-20 |
| Hose Guards/Sleeves | F-21 : F-26 |
| Vise Blocks | F-17 |



Technical


| | |
|-----------------------------------------------|-------------|
| Minikrimp Assembly Detail | F-10 : F-11 |
| Spring/Armor/PVC Guard Selection Tables | F-24 : F-25 |



Tooling, Equipment & Accessories Visual Index








| MiniKrimp™ | 94C-001-PFD | 94C-002-PFD | Hose Stand 94C-MKS |
|------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| |  F-6 |  F-7 |  F-9 |

| Karrykrimp | Karrykrimp 82C-061L-PFD | Karrykrimp 2 85C-061L-PFD |
|------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| |  F-12 |  F12 |

| Parkrimp | Parkrimp 1 80C-061-PFD | Parkrimp 2 83C-081-PFD |
|----------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| |  F-12 |  F-13 |

| PHastkrimp™ | PHastkrimp 89C-061-PFD |
|-------------|---------------------------------------------------------------------------------------------|
| |  F-13 |

| Superkrimp | Superkrimp 88C-082-PFD |
|------------|-----------------------------------------------------------------------------------------------|
| |  F-13 |

| Pumps | Hand Pump 015301 | Hand Pump 82C-0HP-PFD | Hand Pump 85C-0HP-PFD | Air/Hydraulic Pump 025399 | Air/Hydraulic Pump 82C-0AP |
|-------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| |  F-14 |  F-14 |  F-14 |  F-14 |  F-15 |
| | Electric Pump 82C-0EP-PFD | Electric Pump 85C-0EP-PFD | | | |
| |  F-15 |  F-15 | | | |

For detailed ordering information, please consult price list or contact Parflex® Division.

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F-3

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings



D
Transportation






E
Fittings

F
Tooling, Equipment
& Accessories

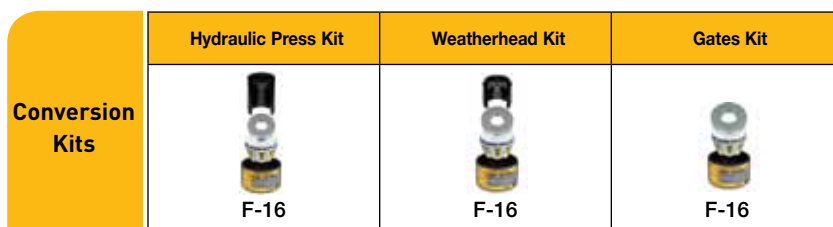
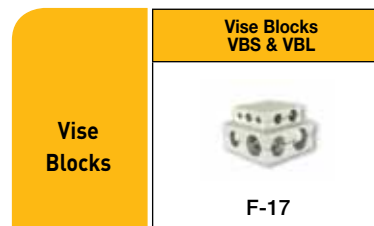
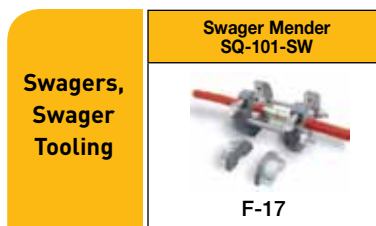
G
General Technical

Tooling, Equipment & Accessories Visual Index

| Parkrimp Dies | Dies | Die Storage Racks |
|---------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| |  F20 |  F-20 |

| Cutoff Tools | Hose Cutoff Machine 332T-115V | Karrykut H631075 | Hose Cutoff Tool 316-PFD | Push-Lok Cut-Off 885140 | Hose Cutter HTC |
|--------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| |  F-18 |  F-18 |  F-19 |  F-19 |  F-19 |
| | Hose Cutter TH11-1 | Plastic Tube Cutter PTC | | | |
| |  F-19 |  F-19 | | | |

| Hose Guards & Sleeves | AG Flat Steel Armor | AS Partek Sleeve | CNG CNGG Guard Kit | FS Fire Sleeve | HBR Bend Restrictor |
|-----------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| |  F-22 |  F-23* |  F-21 |  F-23* |  F-21 |
| | MG External Anti-Kink Casing | PSG and SSG Pre-Made Spring | PSG Parker Spiral Guard | PV Clear Vinyl | SG Steel Spring Guard |
| |  F-23 |  F-22 |  F-26 |  F-21 |  F-22 |
| | 2613 Internal Flat Spring | 2625 External Round Spring | 2740 External Flat Spring | 2799 Internal Round Spring | |
| |  F-23* |  F-23* |  F-23* |  F-23* | * Items on page F-23 are for PTFE hose. |



| Additional Accessories Available | | |
|--------------------------------------|------------------------|--------------------------------------------------------------------|
| Components, Accessories | Division | Contact Information |
| Tube Fitting Adaptors | Tube Fitting Division | Phone: (614) 279-7070 Fax: (614) 279-7685 www.parker.com/tfd |
| Seal-Lok™ O-Rings | | |
| Hose Protective Sleeving | Hose Products Division | Phone: (440) 943-5700 Fax: (440) 943-3129 www.parker.com/hpd |
| Hose Clamps | | |
| Flange Kits (Code 61, 62, DIN & ISO) | | |
| Protection Shields | | |

For detailed ordering information, please consult price list or contact Parflex® Division.

MiniKrimp™ Crimping Machines



Hand Pump Model

Part No. 94C-001-PFD

The Parker Hannifin MiniKrimp is the best portable crimper on the market. By utilizing a one-piece, high-strength cast aluminum frame, the MiniKrimp is light, robust and highly corrosion resistant.

Features

- Lightweight, portable, compact all-in-one unit
- Unit with pump weighs only 42 pounds
- 10,000 psi and 30+ tons of force
- No gauges to set - exclusive Parkalign™ feature positions the fitting correctly every time
- Removable pusher design for easy die change
- Hand pump easily removed for use with jumper hose for bench-mounted units (Part No.- 015309)
- No additional power source required for operation
- Capable of crimping a majority of thermoplastic, rubber, PTFE and specialty hoses up to 3/4" I.D.

Specifications

| | |
|------------------------------|------------------------------------|
| Approximate Size (with Pump) | 6" Deep, 13" Wide, 15" High |
| Weight (w/o die set) | 42 lbs with hand pump |
| Rating | 30 tons force @ 10,000 psi maximum |
| Full Cycle Time | Approximately 30 seconds |

Standard Equipment (Model 94C-001-PFD)

| Part Description | Individual Part Number |
|-------------------------------------|------------------------|
| MiniKrimp Portable Crimping Machine | 94C-080-PFD |
| Hand Pump | 015301 |
| Die Ring – Color Coded Silver | 82C-R01-PFD |

Operating Parameters

Reference Crimpsource™ online or appropriate catalog (4660 or 4400) of the Parker division that supplies the hose for detailed crimp specifications as exceptions do occur based on the particular hose type, size, and fitting material.

www.parker.com/crimpsource



For detailed ordering information, please consult price list or contact Parflex® Division.

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Air Over Hydraulic Model

Part No. 94C-002-PFD

- The Parker Hannifin MiniKrimp is the best portable crimper on the market. By utilizing a one-piece, high-strength cast aluminum frame, the MiniKrimp is light, robust and highly corrosion resistant.

Features

- Lightweight, portable, compact all-in-one unit
- Unit with pump weighs only 45 pounds
- 10,000 psi and 30+ tons of force
- No gauges to set - exclusive Parkalign™ feature positions the fitting correctly every time
- Removable pusher design for easy die change
- Air pump utilizes a rugged activation and release lever for greater durability
- Can operate with as little as 60 psi air pressure (60-100 psi, 9 CFM recommended)
- Capable of crimping a majority of thermoplastic, rubber, PTFE and specialty hoses up to 3/4" I.D.

| Specifications | |
|------------------------------|------------------------------------|
| Approximate Size (with Pump) | 6" Deep, 12" Wide, 15" High |
| Weight | 45 lbs. with air/hydraulic pump |
| Rating | 30 tons force @ 10,000 psi maximum |
| Full Cycle Time | approximately 30 seconds |

| Standard Equipment (Model 94C-002-PFD) | |
|--------------------------------------------------------|-------------|
| Part Description | Part Number |
| MiniKrimp Portable Crimping Machine | 94C-080-PFD |
| Air-Over-Hydraulic Pump (includes tubing and adaptors) | 025399 |
| Die Ring – Color Coded Silver | 82C-R01-PFD |

Operating Parameters

Reference Crimpsource™ online or appropriate catalog (4660 or 4400) of the Parker division that supplies the hose for detailed crimp specifications as exceptions do occur based on the particular hose type, size, and fitting material.

www.parker.com/crimpsource

For detailed ordering information, please consult price list or contact Parflex® Division.

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MiniKrimp™ Crimping Machine Accessories



Upright Vise Mount

Part No. 015307

- Machined and bent from 1/4" thick 1018 steel
- Mount connects to the bottom of the MiniKrimp using four 3/8-16 bolts (not included)
- Once connected, MiniKrimp can be clamped into a vise for operation



Table Mount

Part No. 015306

- Machined and bent from 1/4" thick 1018 steel
- Mount connects to the bottom of the MiniKrimp using four 3/8-16 bolts (not included)
- MiniKrimp can then be mounted to a table using the four 3/8" clearance holes on the other side of the plate (bolts not included)



High Pressure Hose Assembly

Part No. 015309

- Parker 10,000 psi, 1/4" I.D. hose with 3/8" female JIC connections on both ends (PN HP0606060604-72")
- Hose is 6' long
- Hose is used when a flexible connection is required between the MiniKrimp and a hydraulic pressure source



Replacement Connector

Part No. 015308

- Replacement stainless-steel bent tube rigid connector
- For use with 94C-001-PFD (MiniKrimp Hand Pump Model)



Replacement Connector

Part No. 025349

- Replacement stainless-steel bent tube rigid connector
- For use with 94C-002-PFD (MiniKrimp Air Over Hydraulic Model)

Note: The hydraulic connectors shown on this page are designed exclusively for use with the MiniKrimp. No other connectors are approved for use with the MiniKrimp without expressed written consent from Parker Parflex Division's technical support. Any worn connectors should be replaced immediately.



High Pressure Hose Assembly

Part No. 045234

- Parker 10,000 psi, 1/4" I.D. hose with quick coupler
- Hose is designed to be used when mounting a hand pump to the 94C-MKS MiniKrimp stand's base

ie: HP Hose Assembly with applicable quick connects
PN HP0101040604-36 (12" guard)



Folding Stand

Part No. 94C-MKS

(See pictures below for configuration examples)

- Lightweight folding stand designed exclusively for the MiniKrimp portable crimper (works for all versions)
- Fold up design is easy to store
- Mounting hardware and safety instructions are included
- Patented design



MiniKrimp™
with Hand Pump

Hand Pump
MiniKrimp™

Air Over Hydraulic
MiniKrimp™

Air Over Hydraulic
MiniKrimp™ and
Folding Stand

For detailed ordering information, please consult price list or contact Parflex® Division.

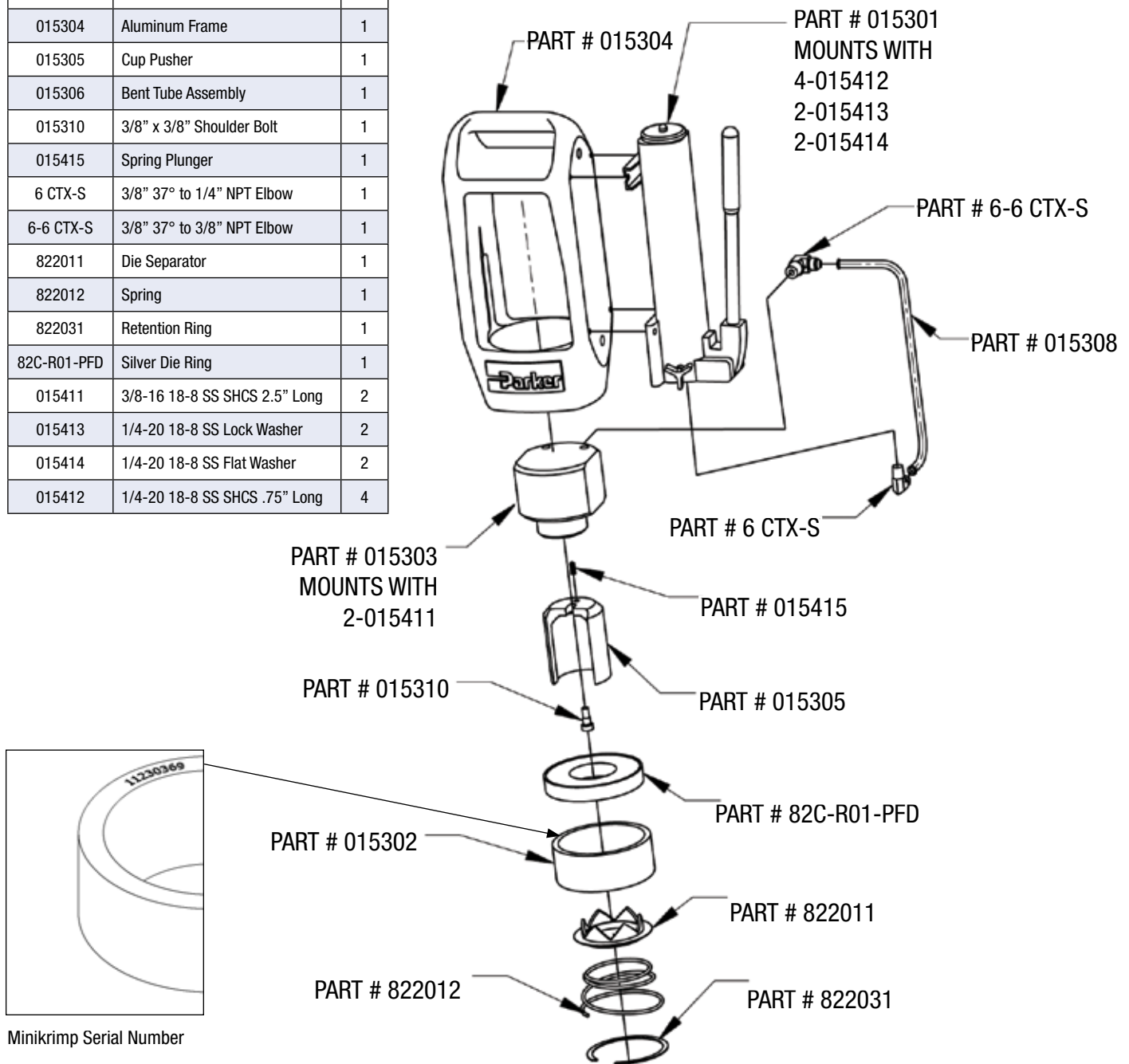
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Assembly Detail & Parts List

MiniKrimp™ Hand Pump Model

| Part No. | Description | Qty. |
|-------------|--------------------------------|------|
| 015301 | 2 Speed Light Weight Hand Pump | 1 |
| 015302 | Hardened Steel Sleeve | 1 |
| 015303 | Custom Cylinder | 1 |
| 015304 | Aluminum Frame | 1 |
| 015305 | Cup Pusher | 1 |
| 015306 | Bent Tube Assembly | 1 |
| 015310 | 3/8" x 3/8" Shoulder Bolt | 1 |
| 015415 | Spring Plunger | 1 |
| 6 CTX-S | 3/8" 37° to 1/4" NPT Elbow | 1 |
| 6-6 CTX-S | 3/8" 37° to 3/8" NPT Elbow | 1 |
| 822011 | Die Separator | 1 |
| 822012 | Spring | 1 |
| 822031 | Retention Ring | 1 |
| 82C-R01-PFD | Silver Die Ring | 1 |
| 015411 | 3/8-16 18-8 SS SHCS 2.5" Long | 2 |
| 015413 | 1/4-20 18-8 SS Lock Washer | 2 |
| 015414 | 1/4-20 18-8 SS Flat Washer | 2 |
| 015412 | 1/4-20 18-8 SS SHCS .75" Long | 4 |



MiniKrimp™ Air Over Hydraulic Model

A
Hose

B
Tubing

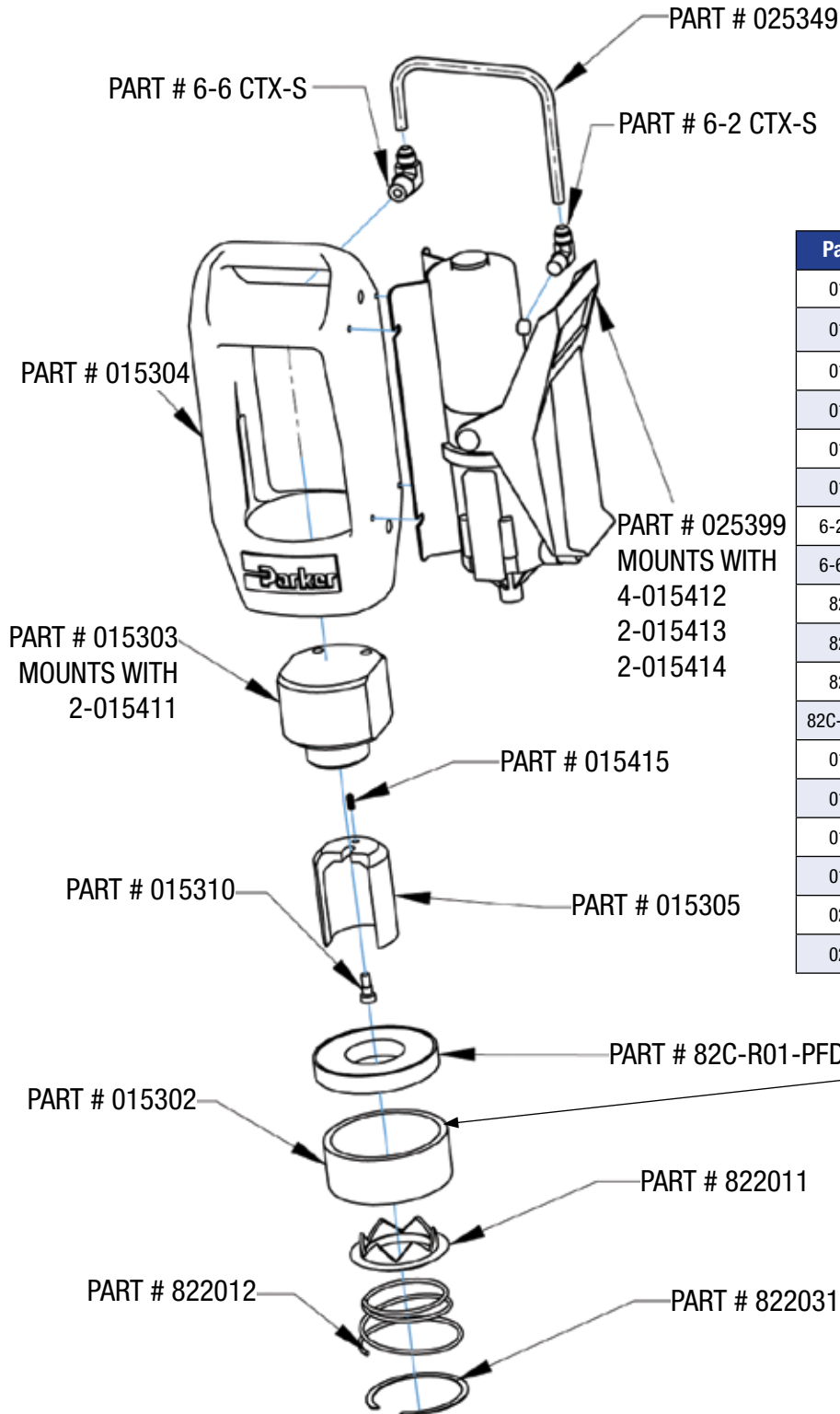
C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical



| Part No. | Description | Qty. |
|-------------|-------------------------------|------|
| 015302 | Hardened Steel Sleeve | 1 |
| 015303 | Custom Cylinder | 1 |
| 015304 | Aluminum Frame | 1 |
| 015305 | Cup Pusher | 1 |
| 015310 | 3/8" x 3/8" Shoulder Bolt | 1 |
| 015415 | Spring Plunger | 1 |
| 6-2 CTX-S | 3/8" 37° to 1/8" NPT Elbow | 1 |
| 6-6 CTX-S | 3/8" 37° to 3/8" NPT Elbow | 1 |
| 822011 | Die Separator | 1 |
| 822012 | Spring | 1 |
| 822031 | Retention Ring | 1 |
| 82C-R01-PFD | Silver Die Ring | 1 |
| 015411 | 3/8-16 18-8 SS SHCS 2.5" Long | 2 |
| 015413 | 1/4-20 18-8 SS Lock Washer | 2 |
| 015414 | 1/4-20 18-8 SS Flat Washer | 2 |
| 015412 | 1/4-20 18-8 SS SHCS .75" Long | 4 |
| 025349 | Bent Tube Assembly | 1 |
| 025399 | Air Powered Pump | 1 |



Minikrimp Serial Number

For detailed ordering information, please consult price list or contact Parflex® Division.

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Karrykrimp, Karrykrimp 2, Parkrimp 1

Karrykrimp



Karrykrimp, with crimping capability for SAE 100R1, 100R2, 100R7, 100R8 and 100R14 hose, gives you true field-crimping capability. Utilizing Parker's patented unitized dies (the same as Parkrimp 1 and 2), this lightweight machine is easily carried to the job site for quick, easy field assemblies – when downtime is critical. The Karrykrimp unit puts hose assembly fabrication where you need and want it, on the spot.

Part Number

82C-061L-PFD.....Karrykrimp, two-piece stand, silver die ring, black die ring, connection hose with coupling, no dies, no pump

82C-R01-PFDKarrykrimp silver die ring

Features

- Crimps most hoses up to 1-1/4" I.D. (Check Crimpsource™ for details)
- Rating: 30 ton force @ 10,000 psi maximum
- Full Cycle Time: 30 seconds with electric pump
- Portable
- Approved for use with SAE 100R1, 100R2, 100R7, 100R8 and 100R14 hose
- Also available in bench mounted construction (82C-KKB-PFD)

Karrykrimp 2



Karrykrimp 2 is portable, compact and ruggedly built. Model 85C-061L-PFD includes crimping machine, collapsible stand, die rings, and connection hose with quick coupling. Select the power unit that meets your needs.

Part Number

85C-061L-PFD.....Karrykrimp 2, two-piece stand, silver die ring, black die ring, connection hose with coupling, no dies, no pump

85C-R01-PFD.....Karrykrimp 2 silver die ring

Features

- Crimps most hoses 1/4" up to 1-1/4" I.D. (Check Crimpsource™ for details)
- Rating: 60 ton force @ 10,000 psi maximum
- Full Cycle Time: 20 seconds with electric pump
- Collapsible stand
- Portable
- Also available in bench mounted construction (85C-KKB-PFD)

Parkrimp 1



Parkrimp 1 offers hose assembly capability for SAE 100R1, 100R2, 100R7, 100R8 and 100R14 hose. Its patented design provides you with the ability to crimp straight – as well as bent tube hose ends; a full power return cycle allows quick, easy size and hose type changes, while the die pusher automatically moves out of the way for easy die insertion: Bench mounted at a 20° angle lets you load and unload hydraulic assemblies as easily as possible. Parkrimp 1 gives you the ease and flexibility to manufacture hydraulic hose assemblies you require – and in less than ten seconds.

Part Number

80C-061-PFD.....Parkrimp 1 crimper, silver die ring, black die ring, no dies

80C-R01-PFD.....Parkrimp 1 silver die ring

Features

- Crimps most hoses up to 1-1/4" I.D. (Check Crimpsource™ for details)
- Rating: 30 ton force @ 3,000 psi maximum
- Full Cycle Time: 20 seconds
- Crimps straight or bent tube hose ends
- Full power return cycle
- Approved for use with SAE 100R1, 100R2, 100R7, 100R8 and 100R14 hose



For detailed ordering information, please consult price list or contact Parflex® Division.

Parkrimp 2, Superkrimp, PHastkrimp



PHastkrimp

PHastkrimp is a fast, benchmounted crimper for braided and multispiral hoses.

Part No.

89C-061-PFD..... Parkrimp 2 head assembly, Parkrimp 2 stand assembly with 230/460 volt 3 phase power unit wired for 230 volt, adaptor bowl, spacer ring, no dies

Features

- Crimps most hoses up to 2" I.D. (Check Crimpsource™ for details)
- Rating: 60 ton force @ 4,200 psi maximum
- Full Cycle Time: 6 seconds



Parkrimp 2

Parkrimp 2's advanced design - with capacity to handle 100R1 through 100R14 hose types, coupled with straight or bent tube ends - is the industry's leading edge in the manufacture of hydraulic hose assemblies. Unparalleled in its design, Parkrimp 2 needs no special adjustments or gauge settings. Simply insert the unitized or split die train for the appropriate size - and with push button ease you have factory-quality assemblies in just seconds.

Part No.

83C-081-PFD..... Parkrimp 2 head assembly, Parkrimp 2 stand assembly with 230/460 volt 3 phase power unit wired for 230 volt, adaptor bowl, spacer ring, no dies.

Features

- Crimps hoses up to 2" I.D.
- Rating: 125 ton force @ 5,000 psi maximum
- Full Cycle Time: 30 sec. w/o adaptor bowl, 20 sec. with adaptor bowl
- Approved for use with SAE 100R1, 100R2, 100R7, 100R8 and 100R14 hose
- Crimps straight or bent tube hose ends
- Push button, easy operation



Superkrimp

Superkrimp can handle all Parflex thermoplastic and PTFE hose assemblies up through 2" I.D. Its design - with capacity to handle 100R7, 100R8, and 100R14 hose types, coupled with straight or bent tube ends - is the industry's leading edge in the manufacture of hose assemblies. Unparalleled in its design, Superkrimp needs no special adjustments or gauge settings. Simply insert the unitized or split die train for the appropriate size, and with push-button ease you have factory quality assemblies in just seconds.

Part Number

88C-082-PFD..... Superkrimp, 230/240-volt single phase power unit wired for 230 volts, adaptor bowl, spacer ring, spacer plate, no dies. Order appropriate dies from the crimp die selection chart in the General Technical Section, pgs. G-30 : G-41.

Features

- Crimps thermoplastic or fluoropolymer hose up to 2" I.D.
- Rating: 70 ton force @ 5,000 psi maximum
- Full Cycle Time: 20 sec. w/o adaptor bowl, 15 sec. with adaptor bowl
- Bench-top design
- Push button, easy operation
- Stainless steel crimping
- Push button ease
- Approved for use with 100R7, 100R8 and 100R14 hose

Parflex Hand Pumps



Hand Pump Part No. 015301

For use with MiniKrimp Hand Pump Model
Easy-to-use hand pump delivers 10,000 psi

Length.....13-3/8"
Width3-1/4"
Height3-5/8"
Port Size..... 1/4" NPTF
Weight..... 4.7 lbs.
Hydraulic Fluid.....Enerpac Oil only



Hand Pump Part No. 82C-0HP-PFD

For use with Karrykrimp, Karrykrimp 2 & MiniKrimp
Attach with hose. Easy-to-use hand pump delivers 10,000 psi

Length.....23"
Width4"
Height5"
Port Size..... 3/8" NPTF
Weight..... 9 lbs.
Hydraulic Fluid.....Enerpac Oil only



Hand Pump Part No. 85C-0HP-PFD

For use with Karrykrimp, Karrykrimp 2 & MiniKrimp
Attach with hose. Easy-to-use hand pump delivers 10,000 psi

Length.....28-15/16"
Width13"
Height11"
Port Size..... 3/8" NPTF
Weight..... 61 lbs.
Hydraulic Fluid.....Enerpac Oil only



Air/Hydraulic Pump Part No. 025399

For use with MiniKrimp Air-over-Hydraulic Model
Lightweight pump operates with 60 - 100 psi shop air pressure

Length.....13"
Width4-1/2"
Height5"
Intake Port Size..... 1/4" NPTF
Output Port Size 1/8" NPTF
Weight..... 12 lbs.
Hydraulic Fluid.....Enerpac Oil only

All pumps are supplied to Parker by ENERPAC. For repair or warranty work to any of the cylinders or pumps, contact your nearest ENERPAC Service Center. For the ENERPAC Service Center nearest you, call 1-800-558-0530 or visit the ENERPAC web site at www.Enerpac.com.



For detailed ordering information, please consult price list or contact Parflex® Division.



Air/Hydraulic Pump

Part No. 82C-0AP-PFD

For use with MiniKrimp, Karrykrimp and Karrykrimp 2
Lightweight, operates with 80-150 psi shop air
Pump delivers 10,000 psi

Length.....15"
Width.....6"
Height.....6"
Port Size..... 1/4" NPTF
Weight..... 14 lbs.
Hydraulic Fluid.....Enerpac Oil only



Electric Pump

Part No. 82C-0EP-PFD

For use with MiniKrimp, Karrykrimp and Karrykrimp 2
Lightweight. Pump delivers 10,000 psi

Length.....13"
Width.....13"
Height.....15"
Port Size..... 3/8" NPTF
Weight..... 31 lbs.
Hydraulic Fluid.....Enerpac Oil only
115 volt, 1 phase, 50/60 Hz, 9 amp



Electric Pump

Part No. 85C-0EP-PFD

Heavy duty pump delivers 1,000 psi at a faster cycle time

Length.....19"
Width.....11"
Height.....17"
Port Size..... 3/8" NPTF
Weight..... 59 lbs.
Hydraulic Fluid.....Enerpac Oil only
115 volt, 1 phase, 50/60 Hz, 20 amp

All pumps are supplied to Parker by ENERPAC. For repair or warranty work to any of the cylinders or pumps, contact your nearest ENERPAC Service Center. For the ENERPAC Service Center nearest you, call 1-800-558-0530 or visit the ENERPAC web site at www.Enerpac.com.

For detailed ordering information, please consult price list or contact Parflex® Division.

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F-15

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Conversion Kits



Hydraulic Press Kit

| Specifications | |
|----------------------------------------------|--------------------------------------------------------------------------------|
| Required height from press base to press ram | 10" |
| Required width of bowl diameter | 5" |
| Bowl Rating | 30 tons force maximum |
| Minimum required press capacity | Hose size 1/4" - 1/2" - 20 ton press Hose size 5/8" - 1-1/4" - 30 ton press |

| Part Description | Individual Part Number |
|------------------|------------------------|
| Bowl Assembly | 8PC-030-PFD |
| Pusher | 8PC-00P-PFD |
| Silver Die Ring | 81C-R01-PFD |

Each component for press kit must be ordered separately.



Weatherhead Conversion Kit

Convert Weatherhead T-400 crimper to utilize Parker Parkimp No-Skive fittings.

| Part Description | Individual Part Number |
|------------------|------------------------|
| Bowl Assembly | 8PC-030-PFD |
| Pusher | 8WC-00P-PFD |
| Silver Die Ring | 81C-R01-PFD |

Each component for press kit must be ordered separately.



Gates Conversion Kit

Convert Gates 701, 703 and 707 bottom loading crimpers to utilize Parker Parkimp No-Skive fittings.

| Part Description | Individual Part Number |
|------------------|------------------------|
| Bowl Assembly | 8PC-030-PFD |
| Silver Die Ring | 81C-R01-PFD |

Each component for press kit must be ordered separately.

Swagers



SQ-101-SW Swager/Mender

- Used for field assembly or repair on Predator S6 and S9 hoses

Vise Blocks



Vise Blocks for Parflex Hose

- For Hose Sizes**
Part Number
 -3, -4, -5,- 6, and -8; 3/16", 1/4", 5/16",
 3/8" and 1/2" I. D.....VBS
 -12 and -16; 3/4" and 1" I. D. VBL

A
Hose

B
Tubing

C
Coiled Air Hose & Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment & Accessories

G
General Technical



Cutoff Tools



Hose Cutoff Machine Part No. 332T-115V-PFD

- Recommended for PTFE Hose
- Power unit for quick, easy cutting of cotton or rubber-covered fabric braid or wire reinforced hose
- Equipped with 1-1/2 HP, 3650 RPM, 115/230V single phase electric motor wired for 115V
- Belt-driven cutting wheel of high-speed steel, hardened and ground for smooth, dust-free, long-lasting service
- Moving parts shielded by guards
- Includes a smooth cutting blade (8" with 5/8" arbor size)

Model 332T-115V will cut:

- Two wire braid, 1-1/4" I.D. maximum
- One wire braid, 2" I.D. maximum
- Four spiral, 1-1/4" I.D. maximum

| Replacement Blades | Part Number |
|--------------------------------------------------|-------------|
| Smooth Cutting (8" with 5/8" arbor size)..... | 580661 |
| Scalloped Cutting | 24398 |



Karrykut Part No. 631075-PFD

- Portable power saw
- Clean cutoff of rubber or cotton covered, wire or fabric reinforced hose -4 through -32
- Hardened steel blade powered
- 110V (13 amp) universal AC-DC motor
- Hand grip, trigger control
- Unique clamp which spreads hose as it is cut to prevent binding of blade

| Description | Part Number |
|------------------------------------------------------|-------------|
| Universal Clamp Attachment* | 631076 |
| Replacement Blade (8" with 5/8" arbor size)..... | 580661 |
| Replacement Power Saw (less clamp and Blade)..... | 631140 |

*May be used with any portable power saw unit having a 5/8" arbor, 8" blade capacity



Hose Cutoff Tool

Part No. 316-PFD

- Cuts hose up to 1" O.D.
- Small
- Easy to use
- Manually operated unit for quick cutting of Parflex hoses (not recommended for wire reinforced)



Push-Lok Cut-Off & Assembly Tool

Part No. 881540-PFD

- Combines hose cutter and toggle action press
- Cuts and assembles Parker 83FR in sizes 1/4" through 3/4" I.D.



Hose & Tubing Cutter

Part No. HTC

- Special V-block design with easy adjustable blade ensures a straight, clean cut
- Minimal flattening of hose/tubing during cutting - Straight, square cut enhances fitting retention
- Cuts up to 1" O.D. hose or tubing (Non-wire reinforced thermoplastic hose and tubing and rubber hose and tubing)
- Replacement blades: HTC-RB



Hose Cut-Off Tool

Part No. TH11-1-PFD

- Designed for quick, easy cutting of textile reinforced hose
- Squarely cuts fiber reinforced hoses in sizes 1/4" through 3/4" I.D.



Plastic Tube Cutter

Part No. PTC

- Razor-edged tube cutter
- Closes automatically, assuring clean and square cuts
- May be used with most plastic tubing up to 5/8" I.D.

| Description | Part Number |
|-------------------------|-------------|
| Replacement Blades..... | PTC-001-RB |

Parflex Parkrimp Dies



Parkrimp dies, specifically engineered for thermoplastic and fluoropolymer hose:

- Linked die segments
- Pre-matched and assembled
- Fitting size color coded

| Color Code | |
|------------|-------|
| Size | Color |
| -1.5 | GR |
| -2 | BR |
| -3 | GR |
| -4 | R |
| -5 | P |

| Color Code | |
|------------|-------|
| Size | Color |
| -6 | Y |
| -8 | BL |
| -10 | O |
| -12 | G |
| -16 | B |

| Color Code | |
|------------|-------|
| Size | Color |
| -20 | W |
| -24 | R |
| -32 | G |

| Parkrimp Approved Silver Die Rings | |
|------------------------------------|--------------|
| Machine | Approved Die |
| Parkrimp 2 and Superkrimp | NA* |
| Parkrimp 1 | 80C-R01-PFD |
| Karrykrimp and MiniKrimp | 82C-R01-PFD |
| Karrykrimp 2 and PHastkrimp | 85C-R01-PFD |

*No additional silver die rings required.

Note:

- 1) Parflex dies have been designed for use with the silver die ring. Silver die rings are to be used with all Parflex hoses unless otherwise specified.
- 2) See Die Selection and Crimp Specification Charts in the General Technical Section of this catalog (pgs. G-30 : G-41) for proper die selection and crimp specifications.
- 3) Visit Crimpsource™ Online at www.parker.com/crimpsource for the latest and most up to date crimping information such as dies and crimp specifications for all your favorite Parflex hoses.

Die Racks



Die Storage Rack

Part No. 80C-0DR-PFD/83C-0DR-PFD

- Holds small and large Parkrimp dies
- Can be bolted together to a work bench

| Description | Part No. |
|----------------------|-------------|
| Storage 3 small dies | 80C-0DR-PFD |
| Storage 2 large dies | 83C-0DR-PFD |



Swivel Die Rack

Part No. 80C-SDR-XXXX-PFD

- Holds up to 30 Parkrimp dies
- Powder coated, heavy duty steel construction
- Consist of base unit and up to 5 circular holders
- Floor or bench mounted

| Description | Part No. |
|--------------------------------------|------------------|
| Swivel Die Rack and Small Die Holder | 80C-SDR-SM-PFD |
| Swivel Die Rack and Large Die Holder | 80C-SDR-LG-PFD |
| Swivel Die Rack Base | 80C-SDR-BASE-PFD |



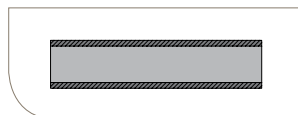
For detailed ordering information, please consult price list or contact Parflex® Division.

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Hose Guards

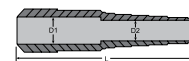
Parker hose guards prolong the life of hoses that are exposed to rugged operating conditions. In addition to protecting the hose from abrasion and cutting, they limit the bending radius which prevents kinking.


PV - Clear Vinyl Hose Guard



| Part Number | Guard I.D. | | Standard Length | |
|-------------|------------|----|-----------------|------|
| # | ⊙ | | | |
| | inch | mm | feet | mtr. |
| PV97-1 | 0.44 | 11 | 100 | 30.5 |
| PV139-1 | 0.56 | 14 | 100 | 30.5 |
| PV1611-1 | 0.68 | 17 | 100 | 30.5 |
| PV2014-1 | 0.87 | 22 | 50 | 15.2 |
| PV2420-1 | 1.25 | 32 | 50 | 15.2 |
| PV3224-1 | 1.50 | 38 | 50 | 15.2 |

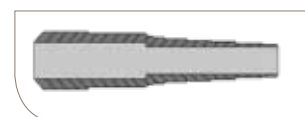
HBR - Hose Bend Restrictor (Black Elastomer)



| Part Number | Hose Size | L | | D1 | | D2 | | |
|-------------|-----------------------------------------------------------------------------------|----|------|-----|------|----|------|----|
| # |  | | | | | | | |
| | inch | mm | inch | mm | inch | mm | inch | mm |
| HBR-4 | 1/4 | 6 | 5 | 127 | .600 | 15 | .500 | 13 |
| HBR-6 | 3/8 | 10 | 6 | 152 | .640 | 16 | .625 | 16 |

Parker reserves the right to change dimensions and performance parameters without notice.

5CNG/CNGLT - Black Vinyl CNG Hose Guard



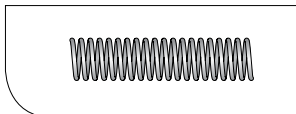
| Hose Part Number | Hose Guard Part Number |
|------------------|------------------------|
| # | # |
| 5CNG/CNGLT-3 | CNKG5-3 |
| 5CNG/CNGLT-4 | CNKG5-4 |
| 5CNG/CNGLT-6 | HBR-6 |
| 5CNG/CNGLT-8 | CNKG5-8 |
| 5CNG/CNGLT-12 | CNKG5-12 |
| 5CNG/CNGLT-16 | CNKG5-16 |

- Use with Parflex CNG hose
- Contact Parflex Division for information on Hose Guard Kits.

Metallic Spring Guards

Use Spring Guards for protection from abrasion and extreme physical abuse.

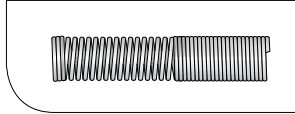
SSG & PSG - Pre-made Spring Guards (Plated, hard-drawn steel wire)



Standard

| Part Number | Guard I.D. | | Standard Length | |
|-------------|------------|----|-----------------|-----|
| # | ⊙ | | | |
| | inch | mm | inch | mm |
| 55SSG-3 | 0.44 | 11 | 5 | 127 |
| 55SSG-4 | 0.55 | 14 | 5 | 127 |
| 55SSG-5 | 0.61 | 15 | 5 | 127 |
| 55SSG-6 | 0.68 | 17 | 5 | 127 |
| 55SSG-8 | 0.83 | 21 | 5 | 127 |
| 55SSG-12 | 1.09 | 28 | 7 | 178 |

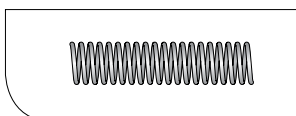
Special configurations available upon request.
Contact factory.



For CNG Hose (Stainless Steel)

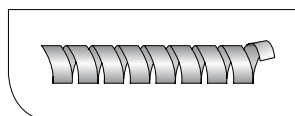
| Part Number | Guard I.D. | | Standard Length | |
|-------------|------------|----|-----------------|-----|
| # | ⊙ | | | |
| | inch | mm | inch | mm |
| 3PSG-3 | 0.46 | 12 | 5.30 | 135 |
| 5PSG-4 | 0.63 | 16 | 6.25 | 159 |
| 5PSG-6 | 0.78 | 20 | 6.50 | 165 |
| 5PSG-8 | 0.90 | 23 | 6.50 | 165 |

SG - Steel Spring Guards (Plated, hard-drawn steel wire)



| Part Number | Guard I.D. | | Standard Length | |
|-------------|------------|----|-----------------|------|
| # | ⊙ | | | |
| | inch | mm | feet | mtr. |
| 55SG-3 | 0.47 | 12 | 25 | 7.6 |
| 55SG-4 | 0.55 | 14 | 25 | 7.6 |
| 55SG-5 | 0.61 | 16 | 25 | 7.6 |
| 55SG-6 | 0.67 | 17 | 25 | 7.6 |
| 55SG-8 | 0.83 | 21 | 25 | 7.6 |
| 55SG-12 | 1.09 | 28 | 10 | 3 |
| 55SG-16 | 1.35 | 34 | 10 | 3 |
| 58SG-12 | 1.18 | 30 | 10 | 3 |
| 58SG-16 | 1.51 | 38 | 10 | 3 |

AG - Flat Steel Armor Guards



| Part Number | Guard I.D. | | Standard Length | |
|-------------|------------|----|-----------------|-----|
| # | ⊙ | | | |
| | inch | mm | inch | mm |
| 55AG-3 | 0.47 | 12 | 25 | 7.6 |
| 55AG-4 | 0.55 | 14 | 25 | 7.6 |
| 55AG-5 | 0.61 | 16 | 25 | 7.6 |
| 55AG-6 | 0.67 | 17 | 25 | 7.6 |
| 55AG-8 | 0.83 | 21 | 25 | 7.6 |
| 55AG-12 | 1.09 | 28 | 10 | 3 |
| 55AG-16 | 1.35 | 34 | 10 | 3 |
| 58AG-12 | 1.18 | 30 | 10 | 3 |
| 58AG-16 | 1.51 | 38 | 10 | 3 |

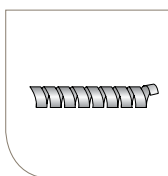
Guards for PTFE Hoses



AS



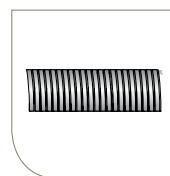
2625, 2799



2740, 2613



FS



MG



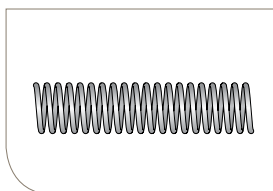
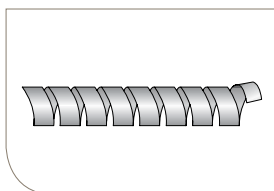
PV

| Hose | | Max. O.D. | Partek Sleeve | External Round Spring | Internal Round Spring | External Flat Spring | Internal Flat Spring | Fire Sleeve | External Anti-Kink Casing | Clear Vinyl Sleeve |
|---------|-----|--------------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------|---------------------------------|--------------------------|
| 919/929 | -3 | 0.25 | - | 2625-10 | - | 2740-10 | - | - | - | PV75-1 |
| | -4 | 0.32 | - | 2625-11 | - | 2740-11 | - | FS-F-5 | MG-038-015C | PV86-1 |
| | -5 | 0.40 | - | 2625-14 | - | 2740-14 | - | FS-F-7 | MG-044-015C | PV97-1 |
| | -6 | 0.46 | AS-Y-11/AS-B-11 | 2625-15 | - | 2740-16 | - | FS-F-8 | MG-050-015C | PV108-1 |
| | -8 | 0.56 | AS-Y-11/AS-B-11 | 2625-19 | - | 2740-19 | 2613-13CR | FS-F-10 | MG-062-015C | PV1310-1 |
| | -10 | 0.66 | AS-Y-13/AS-B-13 | 2625-22 | - | 2740-22 | 2613-16CR | FS-F-12 | MG-075-015C | PV1411-1 |
| | -12 | 0.79 | AS-Y-15/AS-B-15 | 2625-26 | - | 2740-26 | 2613-20CR | FS-F-14 | MG-081-015C | PV1814-1 |
| | -16 | 1.05 | AS-Y-17/AS-B-17 | 2625-34 | - | 2740-34 | 2613-28CR | FS-F-20 | MG-112-015C* | PV2218-1 |
| | -20 | 1.32 | AS-Y-22/AS-B-22 | 2625-44 | - | 2740-44 | 2613-37CR | FS-F-24 | MG-144-015C | - |
| 936 | -4 | 0.56 | AS-Y-11/AS-B-11 | 2625-20 | - | 2740-20 | - | FS-F-11 | - | - |
| | -6 | 0.69 | AS-Y-13/AS-B-13 | 2625-24 | - | 2740-24 | - | FS-F-14 | - | - |
| | -8 | 0.86 | AS-Y-15/AS-B-15 | 2625-29 | - | 2740-31 | - | FS-F-16 | - | - |
| | -10 | 0.96 | AS-Y-17/AS-B-17 | 2625-35 | - | 2740-35 | - | FS-F-18 | - | - |
| | -12 | 1.12 | AS-Y-19/AS-B-19 | 2625-38 | - | 2740-38 | - | FS-F-20 | - | - |
| | -16 | 1.43 | AS-Y-27/AS-B-27 | 2625-50 | 2799-16CR | 2740-50 | - | FS-F-24 | - | - |
| | -20 | 1.80 | AS-Y-35/AS-B-35 | 2625-70 | 2799-20CR | 2740-60 | - | FS-F-32 | - | - |
| | -24 | 2.05 | AS-Y-37/AS-B-37 | 2625-72 | 2799-24CR | 2740-70 | - | FS-F-38 | - | - |
| | -32 | 2.60 | AS-Y-45/AS-B-45 | 2625-87 | 2799-32CR | 2740-83 | - | FS-F-48 | - | - |
| 939 | -4 | 0.48 | AS-Y-11/AS-B-11 | 2625-16 | - | 2740-18 | - | FS-F-10 | - | - |
| | -6 | 0.59 | AS-Y-13/AS-B-13 | 2625-20 | - | 2740-20 | - | FS-F-11 | - | - |
| | -8 | 0.75 | AS-Y-15/AS-B-15 | 2625-25 | - | 2740-25 | - | FS-F-14 | - | - |
| | -10 | 0.88 | AS-Y-17/AS-B-17 | 2625-29 | - | 2740-30 | - | FS-F-16 | - | - |
| | -12 | 1.09 | AS-Y-19/AS-B-19 | 2625-36 | - | 2740-36 | - | FS-F-20 | - | - |
| | -16 | 1.33 | AS-Y-27/AS-B-27 | 2625-44 | 2799-16CR | 2740-44 | - | FS-F-24 | - | - |
| | -20 | 1.75 | AS-Y-35/AS-B-35 | 2625-58 | 2799-20CR | 2740-58 | - | FS-F-32 | - | - |
| | -24 | 2.05 | AS-Y-39/AS-B-39 | 2625-67 | 2799-24CR | 2740-70 | - | FS-F-38 | - | - |
| | -32 | 2.56 | AS-Y-47/AS-B-47 | 2625-83 | 2799-32CR | 2740-83 | - | FS-F-48 | - | - |
| 943 | -6 | 0.49 | AS-Y-11/AS-B-11 | 2625-17 | - | 2740-18 | - | FS-F-10 | - | - |
| | -8 | 0.62 | AS-Y-13/AS-B-13 | 2625-21 | - | 2740-21 | 2613-13CR | FS-F-11 | - | - |
| | -10 | 0.73 | AS-Y-15/AS-B-15 | 2625-24 | - | 2740-23 | 2613-16CR | FS-F-14 | - | - |
| | -12 | 0.99 | AS-Y-17/AS-B-17 | 2625-33 | - | 2740-35 | 2613-20CR | FS-F-18 | - | - |
| | -16 | 1.39 | AS-Y-27/AS-B-27 | 2625-45 | - | 2740-46 | 2613-28CR | FS-F-24 | - | - |

NOTE: *MG-112-015C to be used on 919-16 only.
Partek sleeves come in yellow and black.
All internal guards are fabricated from 300 series stainless steel.
All external guards are plated steel.

For detailed ordering information, please consult price list or contact Parflex® Division.

Spring Guards & Armor Guards



| Hose Style | Armor Guards/Spring Guards | | | | | | | | |
|----------------|----------------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| | 55AG-3 55SG-3 | 55AG-4 55SG-4 | 55AG-5 55SG-5 | 55AG-6 55SG-6 | 55AG-8 55SG-8 | 55AG-12 55SG-12 | 55AG-16 55SG-16 | 58AG-12 58SG-12 | 58AG-16 58SG-16 |
| 510A/510C/518C | -2, -3 | -4 | -5 | -6 | -8 | | | -12 | |
| 515H | -3, -4 | -5 | -6 | | -8 | | | | |
| 520N/528N | -3 | -4 | -5 | -6 | -8 | -10 | | | |
| 526BA | -3 | -4 | | -6 | | | | | |
| 527BA | -3 | -4 | | | | | | | |
| 53DM | -3 | -4 | -5 | -6 | -8 | -10 | | -12 | |
| 538DM | -3 | -4 | -5 | -6 | -8 | -10 | | | |
| 540N | -2, -3 | -4 | -5 | -6 | -8 | -12 | | | |
| 540P | | -4 | | -6 | -8 | -12 | | | |
| 548N | | | | -6 | | | | | |
| 55LT | -2, -3 | -4 | -5 | -6 | -8 | -12 | | | |
| 560 | -3 | -4 | -5 | -6 | -8 | -10 | | -12 | |
| 563 | | -4 | | -6 | -8 | | | | |
| 56DH/568DH | 1.5, -2 | | | | | | | | |
| 575X | -3 | -4 | | -6 | -8 | | | -12 | -16 |
| 580N/588N | | | | -4 | -6 | -8, -10 | | -12 | -16 |
| H580N | | | | | | | | | -16 |
| 590 | -3 | -4 | | -6 | -8 | -10 | | -12 | -16 |
| 593 | | | | | | | | -12 | -16 |
| 83FR | | -4 | | -6 | -8 | -12 | | | |
| 1035A | | -4 | | -6 | | | | | |
| 1035HT | -3 | -4 | | -6 | | | | | |
| B9 | -3 | -4 | -5 | -6 | -8 | -10 | | | |
| D6 | | | -4 | | -6 | -8, -10 | -12 | | -16 |
| H6 | | -4 | -5 | -6 | -8 | -10 | | -12 | |
| R6 | | | -4 | | -6 | -8 | 10, -12 | | -16 |
| HFS | | -4 | -5 | -6 | -8 | -12 | -16 | | |
| HFS2 | | | -4 | | -6, -8 | -10 | | -12 | -16 |
| HJK | | | -4 | | | | | | |
| HTB | | | | -4 | -6 | -8, -10 | -12 | | -16 |
| M8 | | | | | -6 | -8, -10 | | | |
| XDH | -4 | | | -6 | -8 | | | | |

PVC Guards



| Hose Style | PVC Guards | | | | | | |
|----------------|------------|---------|----------|----------|----------|----------|----------|
| | PV97-1 | PV139-1 | PV1611-1 | PV2014-1 | PV2218-1 | PV2420-1 | PV3224-1 |
| 510A/510C/518C | -2 | -3, -4 | -5, -6 | -8 | -12 | | |
| 515H | -3 | -4, -5 | -6 | -8 | | | |
| 520N/528N | | -3, -4 | -5, -6 | -8 | -10 | | |
| 526BA | | -3, -4 | -6 | | | | |
| 527BA | | -3, -4 | | | -8 | | |
| 53DM | | -3, -4 | -5 | -6 | -8 | | |
| 538DM | | -3, -4 | -5 | -6 | -8 | | |
| 540N | -2 | -3, -4 | -5, -6 | -8 | -12 | | |
| 540P | | -4 | | -6 | -8 | -12 | |
| 548N | | | | -6 | | | |
| 55LT | -2 | -3, -4 | -5, -6 | -8 | -12 | | |
| 560 | | -3, -4 | -5, -6 | -8 | -10 | -12 | |
| 563 | | -4 | -6 | -8 | | | |
| 573X | -3 | | | | | | -16 |
| 575X | | -4 | -6 | -8 | | -12 | |
| 580N/588N | | | -4 | -6 | -8, -10 | -12 | -16 |
| 590 | | -3, -4 | -6 | -8 | -10 | -12 | -16 |
| 593 | | | | | | -12 | -16 |
| 83FR | | -4 | -6 | -8 | | -12 | |
| 1035A | | -4 | -6 | | | | |
| 1035HT | | -3, -4 | -6 | | | | |
| B9 | | 3, -4 | -5, -6 | -8 | -10 | | |
| CNG | | -3, -4 | | -6 | -8, -10 | -12 | -16 |
| D6 | | -4 | -6 | -8 | -10 | -12 | -16 |
| H6 | | -4 | -5, -6 | -8 | -10 | -12 | |
| R6 | | -4 | -6 | -8 | -10 | -12 | |
| HFS | | -4 | -5, -6 | -8 | -12 | | -16 |
| HFS2 | | | -4 | -6, -8 | -10 | -12 | -16 |
| HJK | | | -4 | | | | |
| HLB | -2, -3 | | | | | | |
| HTB | | | -4 | -6 | -8, -10 | -12 | -16 |
| M8 | | | | -6 | -8, -10 | | |
| MSH | | -5 | -6 | | | | |
| MSXL | | -5 | | | | | |
| PTH | | -3 | | | | | |
| XDH | | -4 | -6 | -8 | | | |

For detailed ordering information, please consult price list or contact Parflex® Division.

PSG – Parker Spiral Guard



Features

- High-strength and resilient, Spiral Guard protects hose and cable with superior anti-crush performance
- Exceptionally smooth facing and rounded edges prevent Spiral Guard from getting caught on rough surfaces
- Easy installation and routing
- Low friction interior minimizes wear on hose
- For bundling, organizing and protecting hose and cable, Parflex Spiral Guard is the superior solution for mining operations - In fact, it delivers more advantages than cut pipe or sleeving at a competitive price or less
- Spiral Guard is available in:
 - An MSHA/FRAS approved version for underground mining
 - A standard version (with yellow stripe) for surface applications not requiring fire-resistant, anti-static properties

Applications



- Mining
- Automotive
- Mobile Equipment

| Part Number | Hose O.D. Range | | Package Qty. | | 1-Wire Braid Size | | 2-Wire Braid Size | | Multi-Spiral Size | | Weight | |
|-------------------------|-----------------|------------|--------------|------|-------------------|----------|-------------------|----------|-------------------|----------|----------|----------|
| # | | | | | | | | | | | | |
| | mm | inch | mtr. | feet | inch | mm | inch | mm | inch | mm | lbs./ft. | kg./mtr. |
| PSG 12 | 10 – 13 | .394-.512 | 20 | 65.6 | - | | - | | - | | .034 | .015 |
| PSG 16 FRAS or PSG 16 | 12 – 17 | .472-.669 | 20 | 65.6 | 1/4 | 6 | 1/4 | 6 | - | | .040 | .018 |
| PSG 20 FRAS or PSG 20 | 16 – 22 | .630-.866 | 20 | 65.6 | 3/8 | 10 | 1/4 3/8 | 6 10 | 3/8 | 10 | .060 | .027 |
| PSG 25 FRAS or PSG 25 | 22 – 28 | .866-1.10 | 20 | 65.6 | 1/2 5/8 | 13 16 | 1/2 5/8 | 13 16 | 1/2 5/8 | 13 16 | .101 | .046 |
| PSG 32 FRAS or PSG 32 | 27 – 33 | 1.06-1.30 | 20 | 65.6 | 3/4 | 19 | 5/8 3/4 | 16 19 | 5/8 3/4 | 16 19 | .151 | .068 |
| PSG 40 FRAS or PSG 40 | 33 – 42 | 1.30-1.65 | 20 | 65.6 | 1 | 25 | 1 | 25 | 1 | 25 | .235 | .107 |
| PSG 50 FRAS or PSG 50 | 42 – 55 | 1.65-2.17 | 20 | 65.6 | 1-1/4 1-1/2 | 32 38 | 1-1/4 | 32 | 1-1/4 | 32 | .268 | .122 |
| PSG 63 FRAS or PSG 63 | 52 – 65 | 2.05-2.56 | 20 | 65.6 | 2 | 51 | 1-1/2 | 38 | 1-1/2 | 38 | .402 | .182 |
| PSG 75 FRAS or PSG 75 | 65 – 80 | 2.56-3.15 | 10 | 32.8 | - | | 2 | 51 | 2 | 51 | .637 | .289 |
| PSG 90 FRAS or PSG 90 | 80 – 150 | 3.15-5.91 | 10 | 32.8 | - | | - | | - | | .771 | .350 |
| PSG 110 FRAS or PSG 110 | 150 – above | 5.91-above | 10 | 32.8 | - | | - | | - | | 1.00 | .454 |



For detailed ordering information, please consult price list or contact Parflex® Division.

General Technical

Hose Assembly Instructions

Hose Selection, Installation
& Maintenance

Die Selection & Crimp Charts

Materials

Government Agency
& Specifications

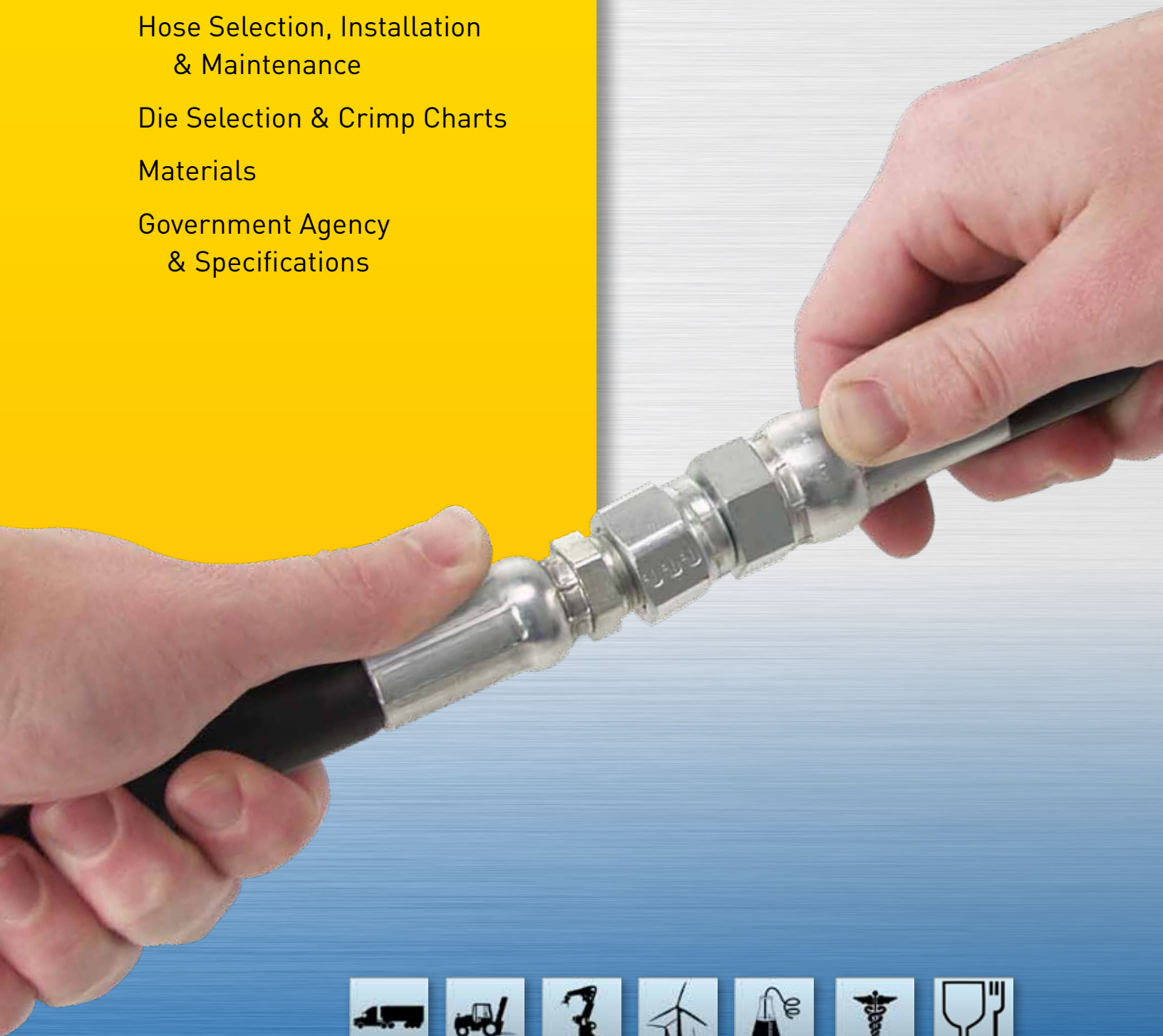


Table of Contents

Hose Selection, Installation & Maintenance

| | |
|---------------------------------------------|-----|
| Intro | G-3 |
| Selection of Hose Diameter..... | G-4 |
| Calculation of Hose Length..... | G-5 |
| Volumetric Expansion of Hose | G-6 |
| Hose Permeation Data (510/510A)..... | G-8 |
| Selection, Installation & Maintenance | G-9 |

Hose Assembly & Crimping

| | |
|-------------------------------------------------------------|-------------|
| Permanent Crimp Assembly Instructions..... | G-10 : G-12 |
| MiniKrimp™ Fitting Assembly Procedures..... | G-13 : G-15 |
| Field Attachable Fitting Series Assembly Instructions | G-16 : G-17 |
| PTFE Permanent Crimp Assembly Instructions | G-18 : G-20 |
| PTFE Field Attachable Assembly Instructions | G-21 : G-23 |
| Sewer Hose SQ-Swage Assembly Instructions | G-24 : G-26 |
| Twin/Multi-Line Separation..... | G-27 : G-28 |
| Ferrul-Fix Installation Instructions | G-29 |

Technical Data

| | |
|--------------------------------------------------------------|-------------|
| Die Selection/Crimp/Swage | G-30 : G-41 |
| Karrykrimp | G-36 : G-38 |
| Karrykrimp 2 | G-33 : G-35 |
| Minikrimp™ | G-39 : G-40 |
| Parkrimp 1 | G-36 : G-38 |
| Parkrimp 2 | G-30 : G-32 |
| PHASTkrimp | G-33 : G-35 |
| Superkrimp | G-30 : G-32 |
| Die Selection & Swage Specification Chart (Sewer Hose) | G-41 |
| Hose Fitting Insertion Values..... | G-42 |
| Hose Fitting Thread Guide | G-43 |
| Media to Fitting & Seal Compatibility Guide | G-44 |
| Metal Tube & Fitting Material Compatibility Guide | G-46 |
| O-Ring Material Selection Guide..... | G-48 |

| | |
|------------------------------------------------------------|-------------|
| Metals Corrosion Scale | G-49 |
| Materials to Parflex Part Number | G-50 |
| Media to Hose Material Compatibility Guide | G-51 : G-54 |
| Media to Plastic Tubing Material Compatibility Guide | G-55 : G-57 |
| Metric Conversion Chart | G-58 |

Other

| | |
|-----------------------------------------|-------------|
| Government Agency & Specifications..... | G-59 |
| Parker Safety Guide | G-60 : G-63 |
| ENERPAC Warranty..... | G-64 |
| Offer of Sale | G-65 |
| Part Number Index | i |
| Key Word Index | v |

General Technical Introduction

Hose Assembly Tutorial

Crimping

- **Steps for crimping** are clearly marked with sequences showing product distinctions between products lines.
 - Crimping section as well as universal preparations for all hoses appear first.
 - Field attachable assemblies appear next.

Twin/Multi-Line Hose

- Review **twin/multi-line hose separation**, pg. G-27 if applicable – this will give you information before proceeding to the assembly pages – Not following this procedure may cause permanent damage to hoses.

*The Hose Products Division Parkrimp 1 is used as an example in this section for illustration and instruction purposes. The PARKRIMP crimping system is the same for all standard Parker portable or bench style crimpers.

Please note: You must become familiar with your own specific crimper to determine its operational features. Please review thoroughly and understand your operator's manual included with your machine. Never use a crimper beyond its recommended published capacities. Crimp specifications can be found in this catalog and on line by accessing Crimp Source. www.parker.com/crimpsource

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

For detailed ordering information, please consult price list or contact Parflex® Division.



Selection of Hose Diameter

From Flow Rate and Velocity

The Fluid Velocity Nomogram gives the velocity of a liquid as a function of flow rate and inside diameter of the fluid line. The commonly recommended maximum velocities for hydraulic oil systems at 200°F or less are indicated for guidance.

Example: At 10 gpm, what is the minimum size within the recommended velocity range for a hydraulic pressure line?

The dashed line drawn from the 10 gpm mark on the left hand line to the maximum velocity of 20 fps intersects the middle line at .438" (7/16" I. D. hose or tubing). For a hose application, use 1/2" I. D., the nearest common standard size.

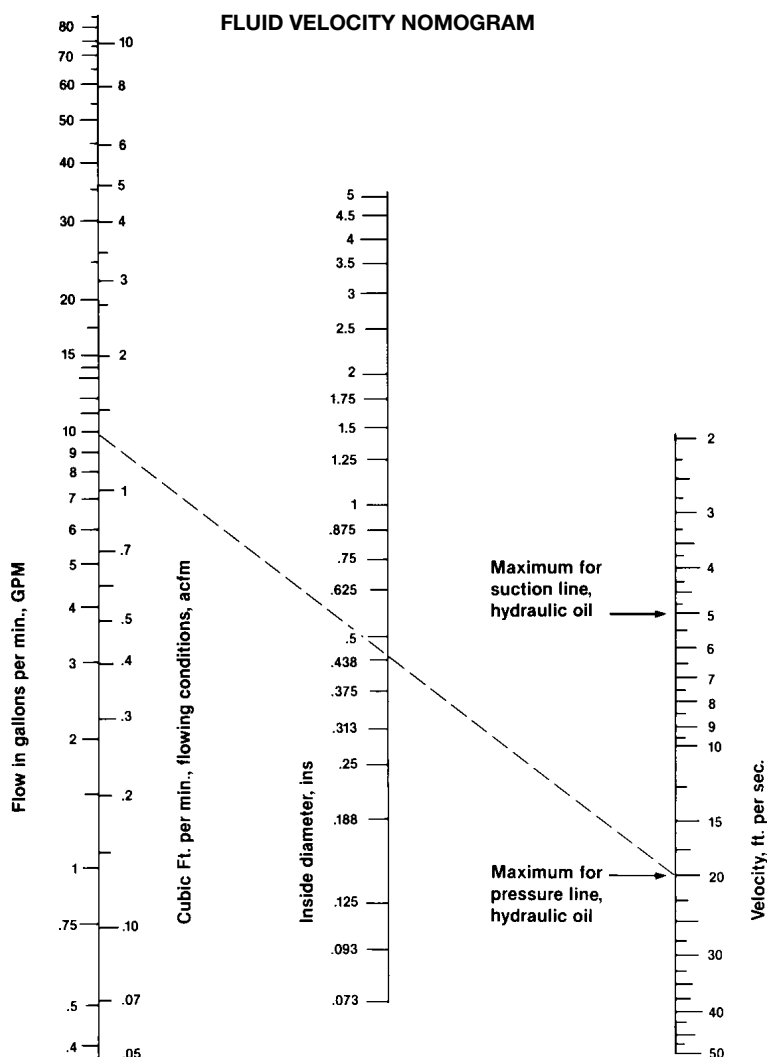
This chart is based on the following formulas:

$$v_{fps} = \frac{.321Q}{\frac{pd^2}{4}}$$

Q = gal per min
d = hose or tube I. D. (inch)

$$\text{cu. ft./min.} = .1337 Q$$

The cu. ft. per min. value is the actual volume flow rate under flowing conditions. For air, standard cfm of free air = 7.81 actual cfm when the inlet air is at 100 PSIG, 68°F.



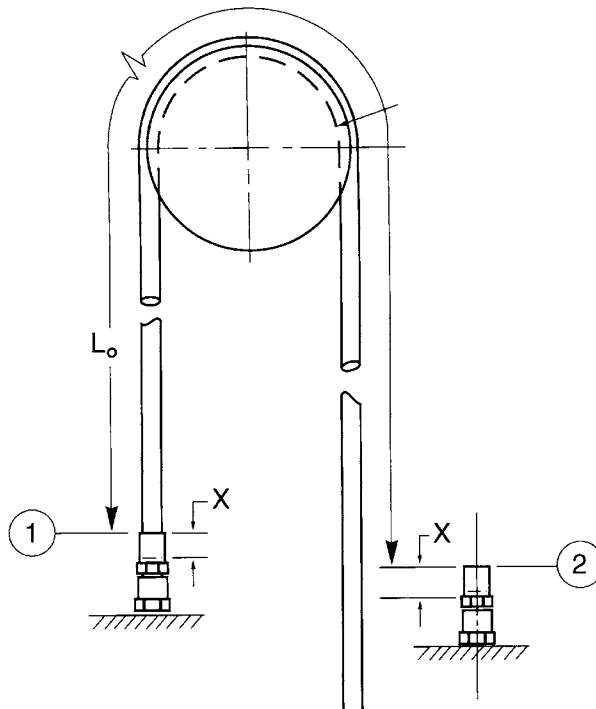
For detailed ordering information, please consult price list or contact Parflex® Division.

Calculation of Hose Length

For Over-the-Sheave Applications

The exact cutoff length for an optimum over-the-sheave assembly depends on the particular mechanical arrangement of the machine. A method for finding an approximate starting point is as follows:

1. Assemble hose with one coupling as shown in diagram.
2. Measure hose length from point 1 to point 2 with hose taut (.985 accounts for 1.56 stretch).
 $LO = \text{length}$
3. Calculation of insert allowance (x) may be found from the coupling dimension tabulations in the fittings section or from direct measurement on the coupling. A 1.5% stretch allowance is provided in this formula.
4. Calculate hose cutoff or free length LF:
 $LF = 0.985 LO + 2x$
Where LF includes coupling, insert allowance on both ends.
5. Couple the remaining hose end, check crimp, and assemble on the machine.



For detailed ordering information, please consult price list or contact Parflex® Division.

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G-5

Volumetric Expansion of Hose

Volumetric Expansion of Parker Hoses

Hydraulic hoses expand under pressure. On some applications, customers can use the differences in expansion between hoses to tune systems for better performance or even noise reduction. Parflex has tested a select list of hoses and determined the rate of expansion in cubic centimeters per foot of hose (cc/ft).

To calculate the volumetric expansion of a hose, substitute the desired pressure into the "X" values in the appropriate equation. For other hoses, please contact the division.

| Hose Part Number | Volumetric Expansion at Maximum Working Pressure | | Equation for Volumetric Expansion |
|------------------|--------------------------------------------------|---------|-----------------------------------|
| | (psi) | (cc/ft) | Y=(cc/ft) X=(psi) |
| 510C-3/518C-3 | 3250 | 2.33 | Y=0.0007X+0.0581 |
| 510C-4/518C-4 | 3000 | 2.71 | Y=0.0009X+0.0059 |
| 510C-5/518C-5 | 2500 | 3.41 | Y=0.0013X+0.1647 |
| 510C-6/518C-6 | 2250 | 4.32 | Y=0.0019X+0.0471 |
| 510C-8/518C-8 | 2250 | 7.36 | Y=0.0032X+0.1637 |
| 510C-12/518C-12 | 1250 | 8.99 | Y = 0.00745x - 0.29910 |
| 510C-16/518C-16 | 1000 | 15.33 | Y = 0.01573x - 0.44928 |
| 520N-3/528N-3 | 5000 | 1.13 | Y = 0.0002x + 0.1621 |
| 520N-4/528N-4 | 5000 | 2.05 | Y = 0.00031x + 0.47589 |
| 520N-5/528N-5 | 4500 | 2.63 | Y = 0.00048x + 0.48415 |
| 520N-6/528N-6 | 4000 | 2.87 | Y = 0.00053x + 0.75151 |
| 520N-8/528N-8 | 3500 | 3.64 | Y = 0.00086x + 0.64994 |
| 520N-10/528N-10 | 2750 | 4.25 | Y = 0.001x + 1.505 |
| 53DM-3/538DM-3 | 3000 | 1.36 | Y = 0.00039x + 0.13035 |
| 53DM-4/538DM-4 | 3000 | 1.90 | Y = 0.00062x + 0.02373 |
| 53DM-5/538DM-5 | 3000 | 2.78 | Y = 0.0009x + 0.0403 |
| 53DM-6/538DM-6 | 3000 | 3.19 | Y = 0.0010x + 0.0647 |
| 53DM-8/538DM-8 | 3000 | 4.68 | Y = 0.0016x + 0.0384 |
| 53DM-10/538DM-10 | 3000 | 9.82 | Y = 0.0033x - 0.2254 |
| 540N-2/548N-2 | 3000 | 1.11 | Y = 0.00036x + 0.04607 |
| 540N-3/548N-3 | 3000 | 1.75 | Y = 0.00057x + 0.03059 |
| 540N-4/548N-4 | 2750 | 2.33 | Y = 0.00079x + 0.14354 |
| 540N-5/548N-5 | 2500 | 3.46 | Y = 0.00124x + 0.31870 |
| 540N-6/548N-6 | 2250 | 4.06 | Y = 0.00174x + 0.15045 |
| 540N-8/548N-8 | 2000 | 6.05 | Y = 0.0030x + 0.0928 |
| 540N-12/548N-12 | 1250 | 10.26 | Y = 0.0081x - 0.2671 |
| 560-3 | 3500 | 0.575 | Y = 0.00017x + 0.00875 |
| 560-4 | 3250 | 0.757 | Y = 0.0002x + 0.1172 |
| 560-5 | 3000 | 0.729 | Y = 0.00021x + 0.09887 |
| 560-6 | 2750 | 1.33 | Y = 0.0004x + 0.1918 |
| 560-8 | 2500 | 1.98 | Y = 0.0007x + 0.2093 |
| 560-10 | 2000 | 3.04 | Y = 0.0012x + 0.5704 |
| 560-12 | 1750 | 3.07 | Y = 0.0015x + 0.4449 |

Continued on next page

Volumetric Expansion of Hose (cont.)

| Hose Part Number | Volumetric Expansion at Maximum Working Pressure | | Equation for Volumetric Expansion |
|------------------|--------------------------------------------------|---------|-----------------------------------|
| | (psi) | (cc/ft) | $Y=(cc/ft) \quad X=(psi)$ |
| 575X-3 | 5000 | 1.69 | $Y = 0.0003x + 0.2119$ |
| 575X-4 | 5000 | 2.05 | $Y = 0.0003x + 0.5601$ |
| 575X-6 | 5000 | 2.71 | $Y = 0.0004x + 0.8412$ |
| 575X-8 | 5000 | 4.59 | $Y = 0.00064x + 1.41795$ |
| 575X-12 | 5000 | 12.52 | $Y = 0.00192x + 2.92038$ |
| 575X-16 | 5000 | 16.81 | $Y = 0.0028x + 2.9560$ |
| 590-3 | 5000 | 0.646 | $Y = 0.00013x + 0.01692$ |
| 590-4 | 5000 | 0.888 | $Y = 0.00016x + 0.09821$ |
| 590-6 | 4000 | 1.87 | $Y = 0.00038x + 0.32317$ |
| 590-8 | 3500 | 2.17 | $Y = 0.00049x + 0.43765$ |
| 590-10 | 3000 | 3.69 | $Y = 0.00095x + 0.82449$ |
| 590-12 | 2500 | 4.20 | $Y = 0.0013x + 0.8216$ |
| 590-16 | 2000 | 6.21 | $Y = 0.0026x + 1.0558$ |
| D604 | 3000 | 1.80 | $Y = 0.00044x + 0.51607$ |
| D606 | 3000 | 2.00 | $Y = 0.0006x + 0.2892$ |
| D608 | 3000 | 2.88 | $Y = 0.00057x + 1.20744$ |
| D610 | 3000 | 2.08 | $Y = 0.00061x + 0.23127$ |
| D612 | 3000 | 5.53 | $Y = 0.00142x + 1.21743$ |
| D616 | 3000 | 7.33 | $Y = 0.00205x + 1.24905$ |
| H604 | 3000 | 1.80 | $Y = 0.00044x + 0.51607$ |
| H605 | 3000 | 1.35 | $Y = 0.00036x + 0.26536$ |
| H606 | 3000 | 2.00 | $Y = 0.0006x + 0.2892$ |
| H608 | 3000 | 2.88 | $Y = 0.00057x + 1.20744$ |
| H610 | 3000 | 2.08 | $Y = 0.00061x + 0.23127$ |
| H612 | 3000 | 5.53 | $Y = 0.00142x + 1.21743$ |

The actual volumetric expansion achieved is influenced by multiple variables including fluid properties, hose routing and application temperature. The volumetric expansion calculation is only a general guideline and must be verified by actual testing in the end-use application. No performance warranty in design is expressed or implied by this calculation. Parker recommends that the user review and understand all the precautions listed in the Parker Safety Guide for Selecting and Using Hose, Fittings and Accessories, bulletin BUL. 4400-b.1.

Hose Permeation Data (510A)

Permeation Rate at 120°F (Pound per Linear Hose Foot per Year)

| Hose Size | R12 | R22 | R507 | R404A | R502 | R134A |
|-----------|-----|------|------|-------|------|-------|
| -2 | - | .28 | - | - | .03 | - |
| -3 | - | .30 | .08 | .07 | - | - |
| -4 | - | .71 | .15 | .10 | - | - |
| -6 | - | 1.11 | - | - | .87 | - |

Permeation Rate at 212°F (Pound per Linear Hose Foot per Year)

| Hose Size | R12 | R22 | R507 | R404A | R502 | R134A |
|-----------|-----|------|------|-------|------|-------|
| -2 | - | - | - | - | - | - |
| -3 | - | 1.25 | - | - | - | - |
| -4 | .08 | 2.32 | - | - | - | .07 |
| -6 | - | - | - | - | - | - |

Notes:

1. Data is for comparison only. Actual results may vary due to differences in application temperature and pressure.
2. Data is collected in highly controlled tests per UL1963.
3. Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories, Section 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.



| |
|-------------------------------------------|
| A Hose |
| B Tubing |
| C Coiled Air Hose & Fittings |
| D Transportation |
| E Fittings |
| F Tooling, Equipment & Accessories |
| G General Technical |

Hose Assembly and Crimping

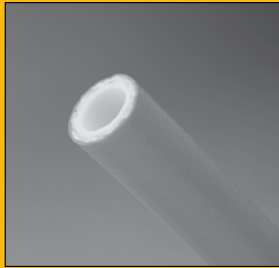
Permanent Crimp

Series 54, 55, 58, 58H, 92, CY, HY, LV, MS, SF

CAUTION: There are several different sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. **See Table of Contents for listing.**

1

Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Verify fitting series corresponds to the selected hose. Visually inspect fitting(s) for a through-hole, threads and damage.

2

Assembly Prep



Insertion Depth – Shown is a 55 series fitting. See Hose Fitting Insertion Values, pg. G-42 for insertion depths of fitting series that do not incorporate an insertion depth. Mark hose end with proper insertion depth line.



Lubrication (as required) – Using an SAE 20 weight lubricating oil, lightly lubricate inside of hose end.

Warning

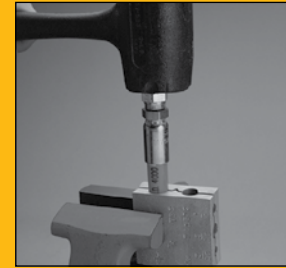
Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service, lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.

3

Assembly



Assemble hose – Push hose into fitting all the way to depth insertion mark. (If fitting does not readily slide onto hose, perform the next step.)



Using Parker VBS or VBL (vise blocks) and a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark.

Hose Assembly and Crimping

Permanent Crimp (cont.)

Series 43, 54, 55, 58, 58H, 92, CY, HY, LV, MS, SF

4

Die Selection



Select proper Parkrimp die set. (Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)

6

Die & Spacer Ring



Crimp Die – Place die set into bowl.

7

Crimp



Assemble hose – Insert hose and fitting from bottom of crimper and up through die set. Position fitting so bottom of fitting skirt rests on die step (PARKALIGN® feature).

5

Lubricate Bowl

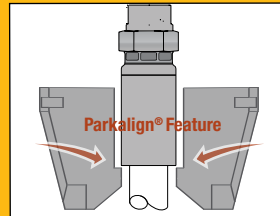


Grease frequently using a premium, quality, lithium-base grease. Apply a thin layer of grease on bowl of crimper base plate.



Die Ring – Place applicable die ring on top of die. Position ring so it is centered on die.

(Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)



While holding hose and fitting in position on the step, crimp fitting onto hose until die ring contacts base plate.

Warning

Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

Note

Pump on crimper must not exceed the rated pressure of the crimper being used. Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Hose Assembly and Crimping

Permanent Crimp (cont.)

Series 54, 55, 58, 58H, 92, CY, HY, LV, MS, SF

8

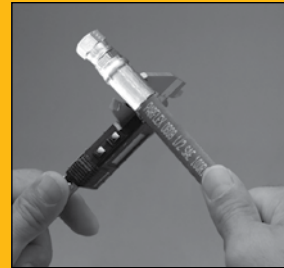
Measure & Inspect



Measure and verify hose assembly length.



Inspect insertion depth mark at fitting ends. Insertion mark must be visible but not exceed 1/8" from end of crimped fitting shell.



Measure crimp diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify crimp diameter is within tolerances.

(Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)

MiniKrimp™ Fitting Assembly Procedures

CAUTION: There are several different sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1

Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Verify fitting series corresponds to the selected hose. Visually inspect fitting(s) for a through-hole, threads and damage.

2

Assembly Prep



Insertion Depth – Mark hose end with proper insertion depth line. See Hose Fitting Insertion Values, pg. G-42 for insertion depths of fitting series that do not incorporate an insertion depth.



Lubrication (as required) – Using an SAE 20 weight lubricating oil, lightly lubricate inside of hose end.

Warning

Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.

3

Assembly



Assemble hose – Push hose into fitting all the way to depth insertion mark. (If fitting does not readily slide onto hose, perform the next step.)



Using Parker VBS or VBL (vise blocks) and a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark.

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

E Fittings

F Tooling, Equipment & Accessories

G General Technical

For detailed ordering information, please consult price list or contact Parflex® Division.

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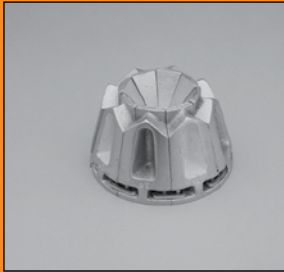
G-13

MiniKrimp™ Fitting Assembly Procedures

(cont.)

4

Die Selection



Select proper Parkrimp die set. (Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)

5

Lubricate Bowl

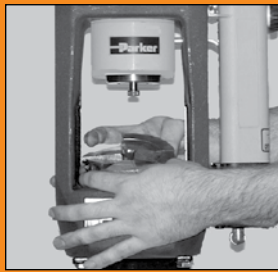


Remove pusher from shoulder bolt.

Using a premium, quality, lithium-base grease, apply a thin layer of grease on bowl of crimper base plate.

6

Die & Spacer Ring



Crimp Die – Place die set into bowl.



Die Ring – Place applicable die ring on top of die. Position ring so it is centered on die.

(Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)



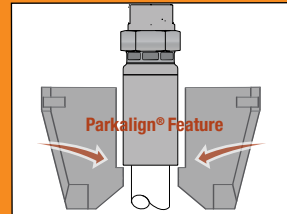
Replace pusher onto shoulder bolt.

7

Crimp



Assemble hose – Insert hose and fitting from bottom of crimper and up through die set. Position fitting so bottom of fitting skirt rests on the step (PARKALIGN® feature).



While holding hose and fitting in position on die step, crimp fitting onto hose until die ring contacts base plate.

Warning

Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

Note

Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

MiniKrimp™ Fitting Assembly Procedures

(cont.)

8

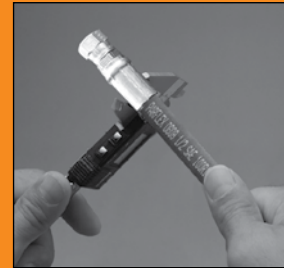
Measure & Inspect



Measure and verify hose assembly length.



Inspect insertion depth mark at fitting ends. Insertion mark must be visible but not exceed 1/8" from end of crimped fitting shell.



Measure crimp diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify crimp diameter is within tolerances.

(Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-15

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

E Fittings

F Tooling, Equipment & Accessories

G General Technical

Hose Assembly & Crimping

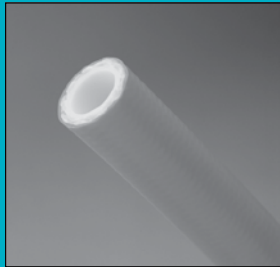
Field Attachable

Series 51, BU & MS (Do not use these fittings on oxygen service lines)

CAUTION: There are several different sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1

Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



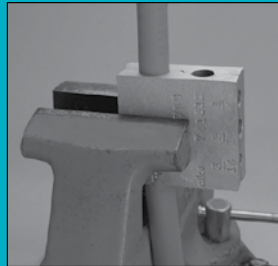
Fittings – Inspect socket for damaged or missing threads. Do not use if conditions exist.



Inspect nipple for a through-hole, damaged or missing threads and improperly crimped nut (if applicable). Do not use if these conditions exist.

2

Assembly



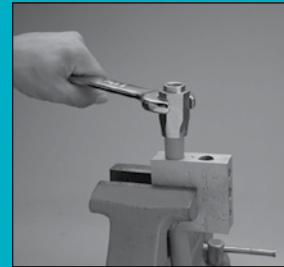
Using the Parker VBS or VBL vise block, place hose in proper hole of the vise block and then clamp in a bench vise. Ensure enough hose extends from the vise block to install socket.

Caution

Ensure hose is installed in correct size hole of vise block. Clamping hose in a smaller hole will crush hose.

3

Assembly



Using a wrench, screw socket onto hose counterclockwise until it bottoms. Ensure end of hose is against inside shoulder. Back off socket 1/4 turn clockwise.

Socket should be firm when tightened but not difficult to turn. If socket is difficult to install, apply lubricant that is compatible with the hose material. Do not use a lubricant with MS series.

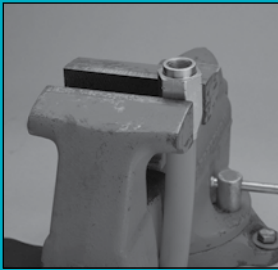
Hose Assembly & Crimping

Field Attachable (cont.)

Series 51, BU & MS (Do not use these fittings on oxygen service lines)

4

Assembly



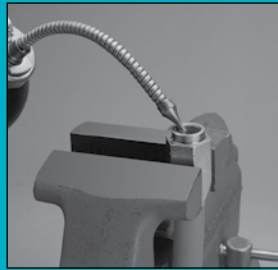
Place hex portion of socket into vise and tighten vise. Ensure socket extends past vise jaws enough to allow for installation of nipple.

Caution

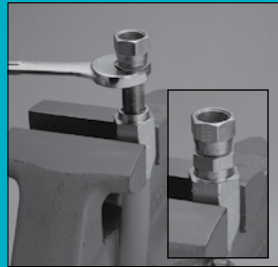
When tightening socket in vise, do not over tighten vise jaws. Over tightening vise jaws will distort internal threads of socket and hamper installation of nipple.

5

Assembly



Using an SAE 20 weight lubricating oil, generously lubricate nipple and socket, threads and hose I.D.



Using a wrench on the nipple hex, screw nipple into socket clockwise until nipple bottoms against socket shoulder.

Caution

Nipple should be firm when tightened but not difficult to turn. If nipple is difficult to install, check hose for proper lubrication. Re-apply lubricating oil as necessary. Installation of nipple without proper lubrication will damage core tube.

6

Inspection



Measure and verify hose assembly length.

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-17

Hose Assembly & Crimping

PTFE Permanent Crimp

Series 91, 91N & 93N

CAUTION: There are several different sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. **See Table of Contents for listing.**

1

Cut



Using a power hose cutoff saw, cut hose squarely.

Note

PTFE Hose should be taped prior to cutting. Hose should be cut at center point of taped section.

2

Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Verify fitting series corresponds to the selected hose. Visually inspect fitting(s) for a through-hole, threads and damage.

3

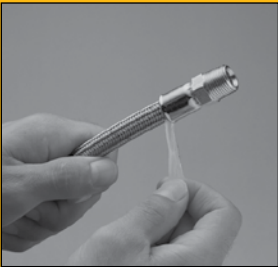
Assembly Prep



Insertion Depth – Mark hose end with proper insertion depth line. See Hose Fitting Insertion Values, pg. G-42 for insertion depths of fitting series that do not incorporate an insertion depth. For jacketed PTFE hoses, use a sharp knife and light pressure to cut back the cover at least the length of the insertion depth of the fitting.

Warning

Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service, lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.



Assemble hose – Push fitting onto hose slightly and then remove tape. Continue pushing fitting onto hose until fitting reaches depth insertion mark.

Hose Assembly & Crimping

PTFE Permanent Crimp (cont.)

Series 91, 91N & 93N

4

Die Selection



Select proper Parkrimp die set. (Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)

6

Die & Spacer Ring



Crimp Die – Place die set into bowl.



Die Ring – Place applicable die ring on top of die. Position ring so it is centered on die.

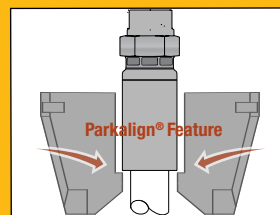
(Parflex hoses utilize silver die ring with the exception of HTB hose. Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)

7

Crimp



Assemble hose – Insert hose and fitting from bottom of crimper and up through die set. Position fitting so bottom of fitting skirt rests on die step (PARKALIGN® feature).



While holding hose and fitting in position on die step, crimp fitting onto hose until die ring contacts base plate.

Warning

Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

Note

Pump on crimper must not exceed the rated pressure of the crimper being used. 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.

5

Lubricate Bowl



Using a premium, quality, lithium-base grease, apply a thin layer of grease on bowl of crimper base plate.

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-19

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

E Fittings

F Tooling, Equipment & Accessories

G General Technical

Hose Assembly & Crimping

PTFE Permanent Crimp (cont.)

Series 91, 91N & 93N

8

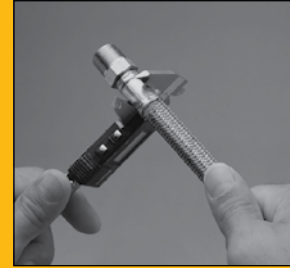
Measure & Inspect



Measure and verify hose assembly length.



Inspect insertion depth mark at fitting ends. Insertion mark must be visible but not exceed 1/8" from end of crimped fitting shell.



Measure crimp diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify crimp diameter is within tolerances.

(Reference Crimp Die Selection Charts - pgs. G-30 : G-41 or Crimpsource online at www.parker.com/crimpsource)

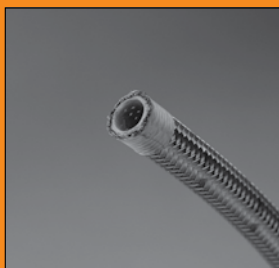
Hose Assembly & Crimping

PTFE Field Attachable Series 90

CAUTION: There are several different sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. [See Table of Contents for listing.](#)

1

Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Inspect each component for possible damage. In addition, inspect socket and nipple for a through-hole and threads.

2

Assembly



Slide two sockets over end of hose with bottom of sockets back to back. Position sockets at each end of hose.

Note

When installing sockets on hose, check hose ends to determine if wire braid “necks down” (bends inward). If one end “necks down” use this end to slide sockets onto hose.

3

Assembly



Mount nipple hex in vise. Ensure nipple end extends beyond vise jaws sufficiently to allow installation of hose.



Push hose bore onto nipple to size tube and to aid in separating braid before assembling ferrule onto hose.

Once completed, remove hose from nipple.

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-21

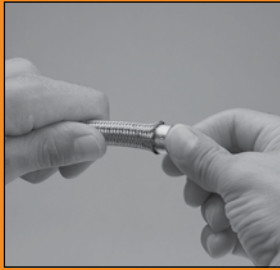
Hose Assembly & Crimping

PTFE Field Attachable (cont.)

Series 90

4

Assembly



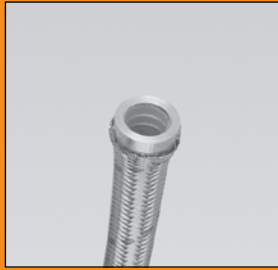
By hand, push sleeve over end of PTFE core tube and under wire braid.



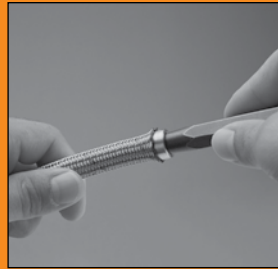
To complete positioning of sleeve, push hose end with sleeve against a solid flat surface.

5

Assembly



Verify tube butts against inside shoulder of ferrule.



Using a tapered punch, push punch into end of sleeve and tube to set sleeve barbs into tube.

6

Assembly



Using SAE 20 weight oil, lubricate nipple and socket threads. For stainless steel fittings use Parker ThreadMate™ or a molybdenum type lubricant.

Warning

Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.



Assemble hose – Using a twisting motion, push hose over nipple until hose is seated against nipple chamfer.

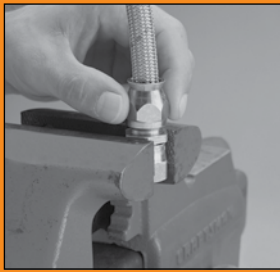
Hose Assembly & Crimping

PTFE Field Attachable (cont.)

Series 90

7

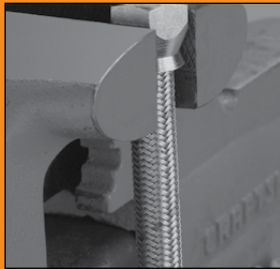
Assembly



Push socket forward and hand-start threading of socket to nipple.

Caution

When tightening socket in vise, do not over tighten vise jaws. Over tightening vise jaws will distort internal threads of socket.



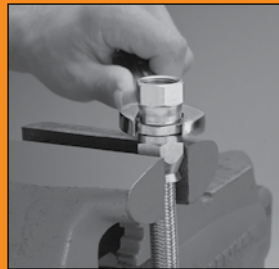
Remove assembly from vise and reposition with socket in vise jaws. Ensure socket extends beyond vise jaws far enough to allow nipple to be completely tightened.

8

Assembly



Wrench tighten nipple hex until clearance between hex and socket hex is 1/32" or less.



Tighten further to align corners of nipple and socket hexes if necessary.

9

Measure & Inspect



Measure and verify hose assembly length.

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-23

SQ-Swage Instructions

Sewer Hose

CAUTION: There are several different sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. **See Table of Contents for listing.**

1

Inspection



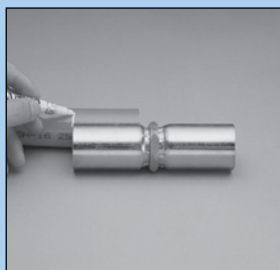
Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Visually inspect fitting for properly crimped shells, internal barbs, a through-hole and damage.

2

Assembly



Insertion Depth – Mark hose end with proper insertion depth line.



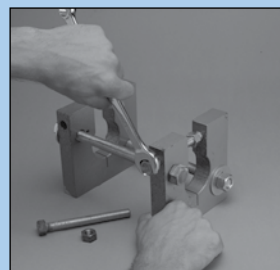
Lubricate – Using an SAE 20 weight oil, lightly lubricate inside of both hose ends.



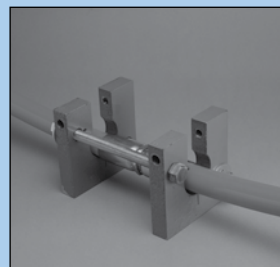
Assemble hose – Push each hose end into fitting to the depth insertion mark.

3

Assembly



Remove both die securing bolts and nuts.

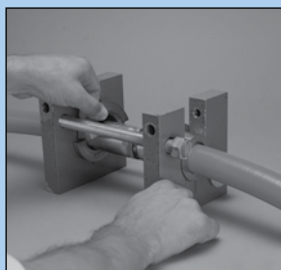


Place hose and fitting assembly into position on swager.

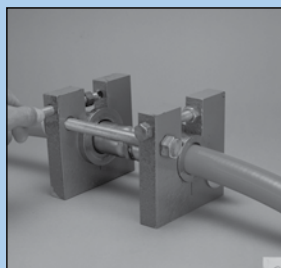
SQ-Swage Instructions (cont.)

4

Assembly



Insert both die halves around hose in each end of swager.



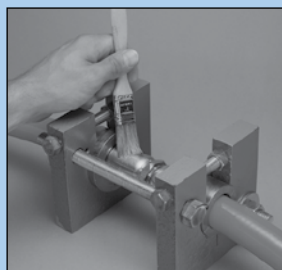
Install both die securing bolts with nuts positioned in opening of swager plates. Tighten die securing bolts 1/4 turn past finger tight.

Caution

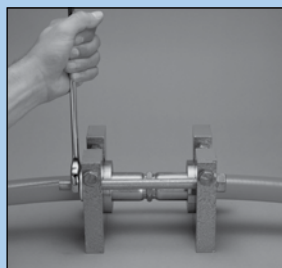
When swaging stainless steel fittings, lubricate through-hole of dies with ThreadMate™. Failure to do so may result in damage to fittings.

5

Assembly



Lubricate – Using an SAE 20 weight oil, lightly lubricate inside of both hose ends.



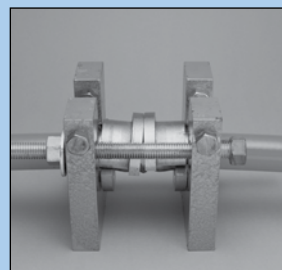
Assemble hose – Align swager plates in parallel and tighten nuts on swaging bolts uniformly until dies touch.

Caution

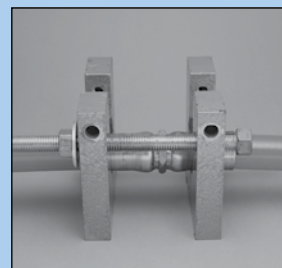
Ensure swager plates remain in parallel when tightening swager bolts. Failure to do so will result in an improperly swaged fitting.

6

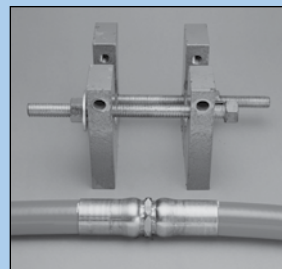
Assembly



Loosen swaging bolts to release pressure on dies.



Remove die securing bolts and nuts. Then remove dies.



Assemble hose – Remove completed hose assembly.

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

E Fittings

F Tooling, Equipment & Accessories

G General Technical

For detailed ordering information, please consult price list or contact Parflex® Division.

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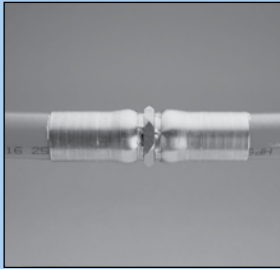


G-25

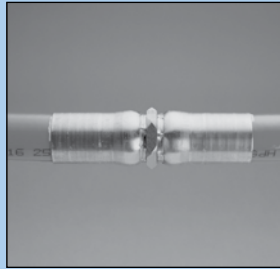
SQ-Swage Instructions (cont.)

7

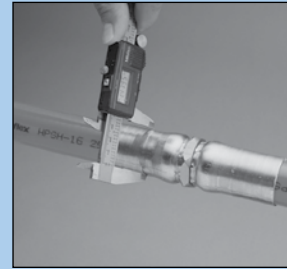
Measure & Inspect



Measure and verify hose assembly length.



Inspect insertion depth mark at fitting ends. Insertion mark must be visible but not exceed 1/8" from end of crimped fitting shell.



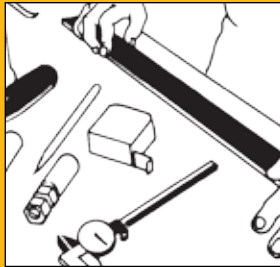
Measure swage diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify swage diameter is within tolerances.

(Reference Swage Specification & Tool Selection Chart on pg. G-41 for proper swage diameters.)

Twin/Multi-Line Separation

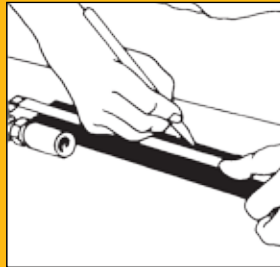
Factory-built assemblies are available using twin/multi-line hoses. When field-built assemblies are preferred, the following steps must be taken.

1



Set-Up – Position twinned or multi-line hose assembly so that it lies flat on work surface without tendency to twist or turn.

2



Measure hose to length – Measure and mark the length that the hoses are to be separated (commonly referred to as Split-back Length).

3



Lubricate – Lightly lubricate the web area between the hoses. Distribute the lubricant uniformly along the web of the assembly to be separated. Any lightweight oil will suffice (SAE 10 or 20). The function of the oil is to reduce the friction of the knife blade so that it naturally seeks the center of the valley formed by the hoses. This eliminates the need for the operator to steer the knife.

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-27

Twin/Multi-Line Separation (cont.)

4

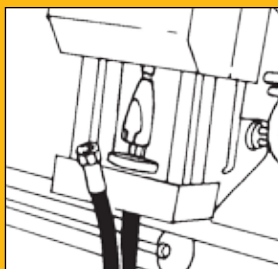


Cut Hose to Length – Press the multi-line hose assembly firmly and flat against the work surface with your free hand so that it does not move. Using a sharp utility knife, carefully draw the knife toward you with constant light to moderate pressure, and a smooth stroke. Multiple strokes will be necessary to separate the hoses.

Note

It is important that the knife blade be perpendicular to the hose during this procedure so that the blade cuts only the center line of the 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 (See Figure 1). If the separation length is greater than that which can be accomplished with one continuous, smooth stroke, then the procedure should be repeated over shorter distances always cutting toward the free end of the hoses.

5



Measure Separation – It is suggested that the separation length be sufficiently long so that the swaging or crimping operation can be accomplished without risk of kinking the hoses or tearing the web which could result in exposure of the hose reinforcement (See Figure 2).

6



Apply Tape – At the option of the assembler, as dictated by the installation, a nylon lashing strap or tape may be applied at the termination of the separated length to provide protection against tearing of the web or hose covers.

INCORRECT HANDLING

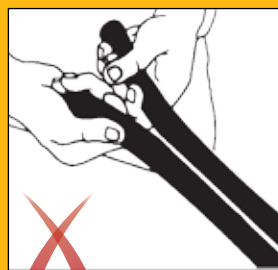


Figure 1 – Extreme care must be taken to avoid cutting through the cover of the hoses and thereby exposing the hose reinforcement. If this occurs, the hose assembly must be discarded.

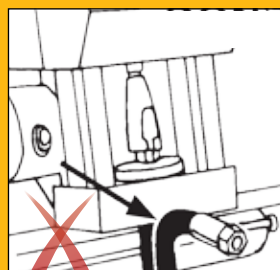


Figure 2 – The separation length must allow for the swaging or crimping operation without damaging the hose.

Ferrul-Fix Installation Instructions

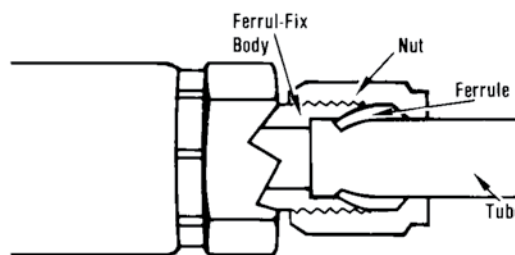
Fast, on-the-job repair for ruptured bent tube hose assemblies and power steering lines.

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, since equipment dealers are unable to stock all of the many odd tube configurations.

Parker Ferrul-Fix hose end fitting now makes it possible to salvage the bent tube section of the original assembly for replacement. Most importantly, it gets you back into operation FAST!

Features

- Gets you back in operation fast – No costly delays while replacement assemblies are rushed from the factory.
- Lets you reuse expensive bent tube ends – You can replace the hose at a fraction of the cost of complete assembly.
- Eliminates need for emergency brazing or welding in the field – Ferrul-Fix can be assembled without special tools or equipment.
- 3-Piece Design – Body, nut, 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 disassembled, an important safety feature. Self-centering action assures an even bite around circumference of tube.
- Parkerized Finish – Ferrul-Fix fittings have the Parkerized black finish, providing built-in torque in make-up.



Assembly

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).

Ferrule-Fix is Manufactured by the Tube Fittings Division. Refer to Catalog 4300 for Ferulok® instructions.

Die Selection & Crimp Specification Charts

Superkrimp and Parkrimp 2

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | | | |
|--------------------------------------|-----------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|-----|
| | | Hose Dash Size | | | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
| Die | 54 Series | | | | 80C-544F | | 80C-546F | | | | | | | |
| 515H | | | | | 0.480 0.490 | | 0.620 0.630 | | | | | | | |
| Die | 55 Series | | | | 80C-P04 | | 80C-P06 | | | | | | | |
| 1035A 1035HT | | | | | 0.560 0.580 | | 0.675 0.695 | | | | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | | | | | |
| 510A | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | | | |
| 510C 518C | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | 80C-P10 | | | | | |
| 520N 528N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | 0.950 0.970 | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | | | | | | | |
| 526BA | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | | | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | | | | | | | | |
| 527BA | | | | 0.480 0.500 | 0.560 0.580 | | | | | | | | | |
| Die | | | | 80C-P03 | 80C-P0550 | | 80C-P0705 | 80C-P0870 | | | | | | |
| 53DM 538DM | | | | 0.480 0.500 | 0.540 0.560 | | 0.695 0.715 | 0.860 0.880 | | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | | | | |
| 540N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08 | | 80C-P12 | | | | |
| 540P | | | | | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | | | |
| 55LT | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08J | 80C-P10 | | | | | |
| 560 | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.815 0.835 | 0.950 0.970 | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08 | | | | | | |
| 575X | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08J | | | | | | |
| 590 | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | | | | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08J | | 80C-P12 | | | | |
| 83FR | | | | | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | 1.100 1.120 | | | | |
| Die | | | | | 80C-P04J | 80C-P0625 | 80C-P0705 | 80C-P0845 | 80C-P10H | | | | | |
| B9 | | | | | 0.535 0.555 | 0.615 0.635 | 0.695 0.715 | 0.835 0.855 | 1.000 1.020 | | | | | |
| Die | | | | | | | | 80C-P08 | | | | | | |
| S5 | | | | | | | | 0.840 0.860 | | | | | | |
| Die | 57 Series | | 80C-P02H | | | | | | | | | | | |
| 510A 510C 518C 540N 55LT | | | 0.396 0.410 | | | | | | | | | | | |

(Cont.) Refer to notes on pg. G-32 at end of Superkrimp and Parkrimp 2 charts.



For detailed ordering information, please consult price list or contact Parflex® Division.

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Die Selection & Crimp Specification Charts

Superkrimp and Parkrimp 2

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | | | |
|---------------|-----------|--------------------------------------|----|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|-----|
| | | Hose Dash Size | | | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
| Die | 58 Series | | | | | | | | 80C-P10H | | | | | |
| 510C 518C | | | | | | | | | 1.000 1.020 | | | | | |
| Die | | | | | | 80C-P05R | 80C-P0715 | 80C-P0885 | 80C-P1045 | | | | | |
| 53DM 538DM | | | | | | 0.650 0.670 | 0.705 0.725 | 0.875 0.895 | 1.035 1.055 | | | | | |
| Die | | | | | | | | | 80C-P10H | | | | | |
| 55LT | | | | | | | | | 1.000 1.020 | | | | | |
| Die | | | | | | | | | | 80C-P12H | | | | |
| 560 | | | | | | | | | | 1.150 1.170 | | | | |
| Die | | | | | 80C-P04H | | 80C-P06H | 80C-P08H | 80C-P10H | 80C-P12H | 80C-P16H | | | |
| 580N 588N | | | | | 0.668 0.688 | | 0.785 0.805 | 0.900 0.920 | 1.000 1.020 | 1.150 1.170 | 1.475 1.495 | | | |
| Die | | | | | | | | | 80C-P10H | 80C-P12H | 80C-P16J | | | |
| 590 | | | | | | | | | 1.000 1.020 | 1.150 1.170 | 1.450 1.470 | | | |
| Die | | | | | | | 80C-P0715 | 80C-P08 | 80C-P1015 | | | | | |
| D6 | | | | | | | 0.705 0.725 | 0.840 0.860 | 1.005 1.025 | | | | | |
| Die | | | | | | | 80C-P0705 | 80C-P08J | | | | | | |
| H6 | | | | | | | 0.695 0.715 | 0.815 0.835 | | | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08J | | | | | | |
| HFS | | | | | | | 0.715 0.735 | 0.815 0.835 | | | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08 | | | | | | |
| HFS2 | | | | | | | 0.715 0.735 | 0.840 0.860 | | | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08J | | | | | | |
| HR1C | | | | | | | 0.715 0.735 | 0.815 0.835 | | | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08 | | | | | | |
| HR2C | | | | | | | 0.715 0.735 | 0.840 0.860 | | | | | | |
| Die | | | | | | | 80C-P0730 | 80C-P08 | | | | | | |
| R6 | | | | | | | 0.720 0.740 | 0.840 0.860 | | | | | | |
| Die | | | | | | | | 80C-P08H | | | | | | |
| S4 | | | | | | | | 0.900 0.920 | | | | | | |
| Die | | | | | | | | | 80C-P10S | | | | | |
| S5 | | | | | | | | | 1.060 1.080 | | | | | |
| Die | | | | | | | | | | 80C-P12H | 80C-P16J | | | |
| S6 S9 | | | | | | | | | | 1.150 1.170 | 1.450 1.470 | | | |
| Die | | | | | | | | 80C-P08J | | | | | | |
| SLH | | | | | | | | 0.815 0.835 | | | | | | |

(Cont.) Refer to notes on pg. G-32 at end of Superkrimp and Parkrimp 2 charts.

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-31

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

Die Selection & Crimp Specification Charts

Superkrimp and Parkrimp 2 (cont.)

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | | | |
|---------------|------------------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Hose Dash Size | | | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
| Die | 58H Series | | | | | | | | | 83C-P1258H | | | | |
| 53DM 538DM | | | | | | | | | | 1.200 1.220 | | | | |
| Die | | | | | | | | | | 83C-P1258H | 83C-P1658H | | | |
| 575X | | | | | | | | | | 1.200 1.220 | 1.605 1.625 | | | |
| Die | | | | | | | | | | | 83C-P1658H | | | |
| H580N | | | | | | | | | | | 1.605 1.625 | | | |
| Die | 71 Series ³ | | | | | | | | | | | | 83C-D24 | |
| S6 | | | | | | | | | | | | | 2.290 2.310 | |
| Die | 91 Series | | | 80C-T03 | | | | | | | | 80C-T20 | | |
| 919 | | | | 0.295 0.305 | | | | | | | | 1.415 1.435 | | |
| Die | 91N Series | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16N | | | |
| 919 | | | | | 0.335 0.355 | 0.385 0.405 | 0.470 0.490 | 0.565 0.585 | 0.665 0.685 | 0.790 0.810 | 1.045 1.065 | | | |
| 919B | | | | | | | | | | | | | | |
| Die | | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16N | | | |
| 929 | | | | | 0.335 0.355 | 0.385 0.405 | 0.470 0.490 | 0.565 0.585 | 0.665 0.685 | 0.790 0.810 | 1.100 1.120 | | | |
| 929B | | | | | | | | | | | | | | |
| Die | | | | | 80C-T04J | 80C-T05J | 80C-T06J | 80C-T08J | 80C-T10J | 80C-T12J | 80C-T16J | | | |
| 929BJ | | | | | 0.335 0.355 | 0.385 0.405 | 0.470 0.490 | 0.565 0.585 | 0.665 0.685 | 0.790 0.810 | 1.100 1.120 | | | |
| Die | | | | | 80C-T04J | 80C-T05J | 80C-T06J | 80C-T08J | 80C-T10J | 80C-T12J | 80C-T16J | | | |
| 919J 919U | | | | | 0.335 0.355 | 0.385 0.405 | 0.470 0.490 | 0.565 0.585 | 0.665 0.685 | 0.790 0.810 | 1.045 1.065 | | | |
| Die | 92 Series | | | 80C-T05 | | | | | | | | | | |
| PTH | | | | 0.450 0.470 | | | | | | | | | | |
| Die | 93N Series | | | | | | | 83C-T08 | 83C-T10 | 83C-T12 | 83C-T16 | 83C-T20 | 83C-T24 | 83C-T32 |
| 939 | | | | | | | | 0.750 0.770 | 0.910 0.930 | 1.090 1.110 | 1.295 1.315 | 1.580 1.600 | 1.845 1.865 | 2.410 2.430 |
| 939B | | | | | | | | | | | | | | |
| Die | CY Series | | 80C-P0368 | | | | | | | | | | | |
| 56DH 568DH | | | 0.361 0.375 | | | | | | | | | | | |
| Die | | | 80C-P0368 | 80C-P0505 | | | | | | | | | | |
| HLB | | | 0.361 0.375 | 0.495 0.515 | | | | | | | | | | |
| Die | LV Series | | | | | | | | | 80C-P12L | 83C-P16L | | | |
| 593 | | | | | | | | | | 1.150 1.170 | 1.450 1.470 | | | |
| Die | MS Series | | | | | 80C-M05 | 80C-M06 | | | | | | | |
| MSH | | | | | | 0.535 0.555 | 0.640 0.660 | | | | | | | |
| Die | | | | | | 80C-M05 | | | | | | | | |
| MSXL | | | | | | 0.535 0.555 | | | | | | | | |
| Die | SF Series | 80C-T03 | | | | | | | | | | | | |
| 56DH 568DH | | 0.295 0.315 | | | | | | | | | | | | |

Notes:

1. The Silver Split Die Ring (Part # 83C-R02) is used for all crimping operations listed in the table
2. Crimp values applicable for steel, brass & stainless Parflex fittings
3. The 83C-OCB Adapter Bowl is required for all 80C-dies and also for the 83C-T08, 83C-T10, 83C-T12, 83C-T16
4. Refer to www.parker.com/crimpsource for updates, assembly instructions and other crimping options

Die Selection & Crimp Specification Charts

Karrykrimp 2 and Phastkrimp

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | |
|-----------------|-----------|--------------------------------------|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|
| | | Hose Dash Size | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 |
| Die | 54 Series | | | | 80C-544F | | 80C-546F | | | | | |
| 515H | | | | | 0.480 0.490 | | 0.620 0.630 | | | | | |
| Die | 55 Series | | | | 80C-P04 | | 80C-P06 | | | | | |
| 1035A 1035HT | | | | | 0.560 0.580 | | 0.675 0.695 | | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | | | |
| 510A | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | |
| 510C 518C | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | 80C-P10 | | | |
| 520N 528N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | 0.950 0.970 | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | | | | | |
| 526BA | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | | | | | | |
| 527BA | | | | 0.480 0.500 | 0.560 0.580 | | | | | | | |
| Die | | | | 80C-P03 | 80C-P0550 | | 80C-P0705 | 80C-P0870 | | | | |
| 53DM 538DM | | | | 0.480 0.500 | 0.540 0.560 | | 0.695 0.715 | 0.860 0.880 | | | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | | |
| 540N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08 | | 80C-P12 | | |
| 540P | | | | | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | |
| 55LT | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08J | 80C-P10 | | | |
| 560 | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.815 0.835 | 0.950 0.970 | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08 | | | | |
| 575X | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08J | | | | |
| 590 | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08J | | 80C-P12 | | |
| 83FR | | | | | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | 1.100 1.120 | | |
| Die | | | | | 80C-P04J | 80C-P0625 | 80C-P0705 | 80C-P0845 | 80C-P10H | | | |
| B9 | | | | | 0.535 0.555 | 0.615 0.635 | 0.695 0.715 | 0.835 0.855 | 1.000 1.020 | | | |
| Die | | | | | | | | 80C-P08 | | | | |
| S5 | | | | | | | | 0.840 0.860 | | | | |

(Cont.) Refer to notes on pg. G-35 at end of Karrykrimp 2 and Phastkrimp charts.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



G-33

A Hose

B Tubing

C Coiled Air Hose & Fittings

D Transportation

E Fittings

F Tooling, Equipment & Accessories

G General Technical

Die Selection & Crimp Specification Charts

Karrykrimp 2 and Phastkrimp (cont.)

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | |
|-------|-----------|--------------------------------------|----------|---------|----------|----------|-----------|-----------|-----------|----------|----------|---------|
| | | Hose Dash Size | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 |
| Die | 57 Series | | 80C-P02H | | | | | | | | | |
| 510A | | | | | | | | | | | | |
| 510C | | | 0.396 | | | | | | | | | |
| 518C | | | 0.410 | | | | | | | | | |
| 540N | | | | | | | | | | | | |
| 55LT | | | | | | | | | | | | |
| Die | 58 Series | | | | | | | | 80C-P10H | | | |
| 510C | | | | | | | | | 1.000 | | | |
| 518C | | | | | | | | | 1.020 | | | |
| Die | | | | | | 80C-P05R | 80C-P0715 | 80C-P0885 | 80C-P1045 | | | |
| 53DM | | | | | | 0.650 | 0.705 | 0.875 | 1.035 | | | |
| 538DM | | | | | | 0.670 | 0.725 | 0.895 | 1.055 | | | |
| Die | | | | | | | | | 80C-P10H | | | |
| 55LT | | | | | | | | | 1.000 | | | |
| | | | | | | | | | 1.020 | | | |
| Die | | | | | | | | | | 80C-P12H | | |
| 560 | | | | | | | | | | 1.150 | | |
| | | | | | | | | | | 1.170 | | |
| Die | | | | | 80C-P04H | | 80C-P06H | 80C-P08H | 80C-P10H | 80C-P12H | 80C-P16H | |
| 580N | | | | | 0.668 | | 0.785 | 0.900 | 1.000 | 1.150 | 1.475 | |
| 588N | | | | | 0.688 | | 0.805 | 0.920 | 1.020 | 1.170 | 1.495 | |
| Die | | | | | | | | | 80C-P10H | 80C-P12H | 80C-P16J | |
| 590 | | | | | | | | | 1.000 | 1.150 | 1.450 | |
| | | | | | | | | | 1.020 | 1.170 | 1.470 | |
| Die | | | | | | | 80C-P0715 | 80C-P08 | 80C-P1015 | | | |
| D6 | | | | | | | 0.705 | 0.840 | 1.005 | | | |
| | | | | | | | 0.725 | 0.860 | 1.025 | | | |
| Die | | | | | | | 80C-P0705 | 80C-P08J | | | | |
| H6 | | | | | | | 0.695 | 0.815 | | | | |
| | | | | | | | 0.715 | 0.835 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08J | | | | |
| HFS | | | | | | | 0.715 | 0.815 | | | | |
| | | | | | | | 0.735 | 0.835 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08 | | | | |
| HFS2 | | | | | | | 0.715 | 0.840 | | | | |
| | | | | | | | 0.735 | 0.860 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08J | | | | |
| HR1C | | | | | | | 0.715 | 0.815 | | | | |
| | | | | | | | 0.735 | 0.835 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08 | | | | |
| HR2C | | | | | | | 0.715 | 0.840 | | | | |
| | | | | | | | 0.735 | 0.860 | | | | |
| Die | | | | | | | 80C-P0730 | 80C-P08 | | | | |
| R6 | | | | | | | 0.720 | 0.840 | | | | |
| | | | | | | | 0.740 | 0.860 | | | | |
| Die | | | | | | | | 80C-P08H | | | | |
| S4 | | | | | | | | 0.900 | | | | |
| | | | | | | | | 0.920 | | | | |
| Die | | | | | | | | | 80C-P10S | | | |
| S5 | | | | | | | | | 1.060 | | | |
| | | | | | | | | | 1.080 | | | |
| Die | | | | | | | | | | 80C-P12H | 80C-P16J | |
| S6 | | | | | | | | | | 1.150 | 1.450 | |
| S9 | | | | | | | | | | 1.170 | 1.470 | |
| Die | | | | | | | | 80C-P08J | | | | |
| SLH | | | | | | | | 0.815 | | | | |
| | | | | | | | | 0.835 | | | | |
| Die | 91 Series | | | 80C-T03 | | | | | | | | 80C-T20 |
| 919 | | | | 0.295 | | | | | | | | 1.415 |
| | | | | 0.305 | | | | | | | | 1.435 |

(Cont.) Refer to notes on pg. G-35 at end of Karrykrimp 2 and Phastkrimp charts.

Die Selection & Crimp Specification Charts

Karrykrimp 2 and Phastkrimp (cont.)

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | |
|-------|------------|--------------------------------------|----------------|----------------|----------|----------------|----------------|----------|----------|----------|-----------|-----|
| | | Hose Dash Size | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 |
| Die | 91N Series | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16N | |
| 919 | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.045 | |
| 919B | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.065 | |
| Die | | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16H | |
| 929 | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.100 | |
| 929B | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.120 | |
| Die | | | | | 80C-T04J | 80C-T05J | 80C-T06J | 80C-T08J | 80C-T10J | 80C-T12J | 80C-T16HJ | |
| 929BJ | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.100 | |
| | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.120 | |
| Die | 92 Series | | | 80C-T05 | | | | | | | | |
| PTH | | | | 0.450 0.470 | | | | | | | | |
| Die | 93N Series | | | | | | | 83C-T08 | 83C-T10 | 83C-T12 | 83C-T16 | |
| 939 | | | | | | | | 0.750 | 0.910 | 1.090 | 1.295 | |
| 939B | | | | | | | | 0.770 | 0.930 | 1.110 | 1.315 | |
| Die | CY Series | | 80C-P0368 | | | | | | | | | |
| 56DH | | | 0.361 | | | | | | | | | |
| 568DH | | | 0.375 | | | | | | | | | |
| Die | | | 80C-P0368 | 80C-P0505 | | | | | | | | |
| HLB | | | 0.361 0.375 | 0.495 0.515 | | | | | | | | |
| Die | MS Series | | | | | 80C-M05 | 80C-M06 | | | | | |
| MSH | | | | | | 0.535 0.555 | 0.640 0.660 | | | | | |
| Die | | | | | | 80C-M05 | | | | | | |
| MSXL | | | | | | 0.535 0.555 | | | | | | |
| Die | SF Series | 80C-T03 | | | | | | | | | | |
| 56DH | | 0.295 | | | | | | | | | | |
| 568DH | | 0.315 | | | | | | | | | | |

Notes:

1. The Silver Spacer Ring (Part # 85C-R01) is required for all crimping operations listed in the table unless otherwise noted
2. Crimp values applicable for steel, brass & stainless Parflex fittings except 93N stainless steel fittings in sizes -12 & -16. These require the Superkrimp or Parkrimp 2 machines
3. Refer to www.parker.com/crimpsource for updates, assembly instructions and other crimping options

For detailed ordering information, please consult price list or contact Parflex® Division.

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Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

Die Selection & Crimp Specification Charts

Karrykrimp and Parkrimp 1

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | |
|--------------------------------------|-----------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|
| | | Hose Dash Size | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 |
| Die | 54 Series | | | | 80C-544F | | 80C-546F | | | | | |
| 515H | | | | | 0.480 0.490 | | 0.620 0.630 | | | | | |
| Die | 55 Series | | | | 80C-P04 | | 80C-P06 | | | | | |
| 1035A 1035HT | | | | | 0.560 0.580 | | 0.675 0.695 | | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | | | |
| 510A | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | |
| 510C 518C | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | 80C-P10 | | | |
| 520N 528N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | 0.950 0.970 | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | | | | | |
| 526BA | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | | | | | | |
| 527BA | | | | 0.480 0.500 | 0.560 0.580 | | | | | | | |
| Die | | | | 80C-P03 | 80C-P0550 | | 80C-P0705 | 80C-P0870 | | | | |
| 53DM 538DM | | | | 0.480 0.500 | 0.540 0.560 | | 0.695 0.715 | 0.860 0.880 | | | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | | |
| 540N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08 | | 80C-P12 | | |
| 540P | | | | | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | |
| 55LT | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08J | 80C-P10 | | | |
| 560 | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.815 0.835 | 0.950 0.970 | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08 | | | | |
| 575X | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08J | | | | |
| 590 | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08J | | 80C-P12 | | |
| 83FR | | | | | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | 1.100 1.120 | | |
| Die | | | | | 80C-P04J | 80C-P0625 | 80C-P0705 | 80C-P0845 | 80C-P10H | | | |
| B9 | | | | | 0.535 0.555 | 0.615 0.635 | 0.695 0.715 | 0.835 0.855 | 1.000 1.020 | | | |
| Die | | | | | | | | 80C-P08 | | | | |
| S5 | | | | | | | | 0.840 0.860 | | | | |
| Die | 57 Series | | 80C-P02H | | | | | | | | | |
| 510A 510C 518C 540N 55LT | | | 0.396 0.410 | | | | | | | | | |

(Cont.) Refer to notes on pg. G-38 at end of Karrykrimp and Parkrimp 1 charts.

Die Selection & Crimp Specification Charts

Karrykrimp and Parkrimp 1 (cont.)

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | |
|---------------|-----------|--------------------------------------|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|
| | | Hose Dash Size | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 |
| Die | 58 Series | | | | | | | | 80C-P10H | | | |
| 510C 518C | | | | | | | | | 1.000 1.020 | | | |
| Die | | | | | | 80C-P05R | 80C-P0715 | 80C-P0885 | 80C-P1045 | | | |
| 53DM 538DM | | | | | | 0.650 0.670 | 0.705 0.725 | 0.875 0.895 | 1.035 1.055 | | | |
| Die | | | | | | | | | 80C-P10H | | | |
| 55LT | | | | | | | | | 1.000 1.020 | | | |
| Die | | | | | | | | | | 80C-P12H | | |
| 560 | | | | | | | | | | 1.150 1.170 | | |
| Die | | | | | 80C-P04H | | 80C-P06H | 80C-P08H | 80C-P10H | | | |
| 580N 588N | | | | | 0.668 0.688 | | 0.785 0.805 | 0.900 0.920 | 1.000 1.020 | | | |
| Die | | | | | | | | | 80C-P10H | | | |
| 590 | | | | | | | | | 1.000 1.020 | | | |
| Die | | | | | | | 80C-P0715 | 80C-P08 | 80C-P1015 | | | |
| D6 | | | | | | | 0.705 0.725 | 0.840 0.860 | 1.005 1.025 | | | |
| Die | | | | | | | 80C-P0705 | 80C-P08J | | | | |
| H6 | | | | | | | 0.695 0.715 | 0.815 0.835 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08J | | | | |
| HFS | | | | | | | 0.715 0.735 | 0.815 0.835 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08 | | | | |
| HFS2 | | | | | | | 0.715 0.735 | 0.840 0.860 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08J | | | | |
| HR1C | | | | | | | 0.715 0.735 | 0.815 0.835 | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08 | | | | |
| HR2C | | | | | | | 0.715 0.735 | 0.840 0.860 | | | | |
| Die | | | | | | | 80C-P0730 | 80C-P08 | | | | |
| R6 | | | | | | | 0.720 0.740 | 0.840 0.860 | | | | |
| Die | | | | | | | | 80C-P08H | | | | |
| S4 | | | | | | | | 0.900 0.920 | | | | |
| Die | | | | | | | | | 80C-P10S | | | |
| S5 | | | | | | | | | 1.060 1.080 | | | |
| Die | | | | | | | | 80C-P08J | | | | |
| SLH | | | | | | | | 0.815 0.835 | | | | |
| Die | 91 Series | | | 80C-T03 | | | | | | | | 80C-T20 |
| 919 | | | | 0.295 0.305 | | | | | | | | 1.415 1.435 |

(Cont.) Refer to notes on pg. G-38 at end of Karrykrimp 1 and Parkrimp 1 charts.

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-37

Die Selection & Crimp Specification Charts

Karrykrimp and Parkrimp 1 (cont.)

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | |
|-------|------------|--------------------------------------|----------------|----------------|----------|----------------|----------------|----------------|----------------|----------------|-----------|-----|
| | | Hose Dash Size | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 |
| Die | 91N Series | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16N | |
| 919 | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.045 | |
| 919B | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.065 | |
| Die | | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16H | |
| 929 | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.100 | |
| 929B | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.120 | |
| Die | | | | | 80C-T04J | 80C-T05J | 80C-T06J | 80C-T08J | 80C-T10J | 80C-T12J | 80C-T16HJ | |
| 929BJ | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.100 | |
| | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.120 | |
| Die | | | | | 80C-T04J | 80C-T05J | 80C-T06J | 80C-T08J | 80C-T10J | 80C-T12J | 80C-T16J | |
| 919J | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.045 | |
| 919U | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.065 | |
| Die | 92 Series | | | 80C-T05 | | | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | | |
| PTH | | | | 0.450 0.470 | | | 0.470 0.490 | 0.565 0.585 | 0.665 0.685 | 0.790 0.810 | | |
| Die | 93N Series | | | | | | | 83C-T08 | 83C-T10 | 83C-T12 | | |
| 939 | | | | | | | | 0.750 | 0.910 | 1.090 | | |
| 939B | | | | | | | | 0.770 | 0.930 | 1.110 | | |
| Die | CY Series | | 80C-P0368 | | | | | | | | | |
| 56DH | | | 0.361 | | | | | | | | | |
| 568DH | | | 0.375 | | | | | | | | | |
| Die | | | 80C-P0368 | 80C-P0505 | | | | | | | | |
| HLB | | | 0.361 0.375 | 0.495 0.515 | | | | | | | | |
| Die | MS Series | | | | | 80C-M05 | 80C-M06 | | | | | |
| MSH | | | | | | 0.535 0.555 | 0.640 0.660 | | | | | |
| Die | | | | | | 80C-M05 | | | | | | |
| MSXL | | | | | | 0.535 0.555 | | | | | | |
| Die | SF Series | 80C-T03 | | | | | | | | | | |
| 56DH | | 0.295 | | | | | | | | | | |
| 568DH | | 0.315 | | | | | | | | | | |

Notes:

1. The Silver Spacer Ring (Part # 82C-R01) is required for all crimping operations listed unless noted
2. Crimp values applicable for steel, brass & stainless Parflex fittings
3. Refer to www.parker.com/crimpsource for updates, assembly instructions and other crimping options



For detailed ordering information, please consult price list or contact Parflex® Division.

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Die Selection & Crimp Specification Charts

Minikrimp™

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | |
|--------------------------------------|-----------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|
| | | Hose Dash Size | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 |
| Die | 54 Series | | | | 80C-544F | | 80C-546F | | | | | |
| 515H | | | | | 0.480 0.490 | | 0.620 0.630 | | | | | |
| Die | 55 Series | | | | 80C-P04 | | 80C-P06 | | | | | |
| 1035A 1035HT | | | | | 0.560 0.580 | | 0.675 0.695 | | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | | | |
| 510A | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | | | |
| Die | | | | 80C-P03 | 80C-P04J | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | |
| 510C 518C | | | | 0.480 0.500 | 0.535 0.555 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | 80C-P10 | | | |
| 520N 528N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | 0.950 0.970 | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | | | | | |
| 526BA | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | | | | | | |
| 527BA | | | | 0.480 0.500 | 0.560 0.580 | | | | | | | |
| Die | | | | 80C-P03 | 80C-P0550 | | 80C-P0705 | 80C-P0870 | | | | |
| 53DM 538DM | | | | 0.480 0.500 | 0.540 0.560 | | 0.695 0.715 | 0.860 0.880 | | | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | | |
| 540N | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08 | | 80C-P12 | | |
| 540P | | | | | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08 | | 80C-P12 | 80C-P16 | |
| 55LT | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.840 0.860 | | 1.100 1.120 | 1.345 1.365 | |
| Die | | | | 80C-P03 | 80C-P04 | 80C-P05 | 80C-P06 | 80C-P08J | 80C-P10 | | | |
| 560 | | | | 0.480 0.500 | 0.560 0.580 | 0.620 0.640 | 0.675 0.695 | 0.815 0.835 | 0.950 0.970 | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08 | | | | |
| 575X | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.840 0.860 | | | | |
| Die | | | | 80C-P03 | 80C-P04 | | 80C-P06 | 80C-P08J | | | | |
| 590 | | | | 0.480 0.500 | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | | | |
| Die | | | | | 80C-P04 | | 80C-P06 | 80C-P08J | | 80C-P12 | | |
| 83FR | | | | | 0.560 0.580 | | 0.675 0.695 | 0.815 0.835 | | 1.100 1.120 | | |
| Die | | | | | 80C-P04J | 80C-P0625 | 80C-P0705 | 80C-P0845 | 80C-P10H | | | |
| B9 | | | | | 0.535 0.555 | 0.615 0.635 | 0.695 0.715 | 0.835 0.855 | 1.000 1.020 | | | |
| Die | | | | | | | | 80C-P08 | | | | |
| S5 | | | | | | | | 0.840 0.860 | | | | |
| Die | 57 Series | | 80C-P02H | | | | | | | | | |
| 510A 510C 518C 540N 55LT | | | 0.396 0.410 | | | | | | | | | |

(Cont.) Refer to notes on pg. G-40 at end of Minikrimp charts.

For detailed ordering information, please consult price list or contact Parflex® Division.

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Die Selection & Crimp Specification Charts

Minikrimp (cont.)

| Hose | Fittings | Die Selection and Crimping Diameters | | | | | | | | | | | |
|-------|------------|--------------------------------------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|----------|-----|---------|
| | | Hose Dash Size | | | | | | | | | | | |
| | | -1.5 | -2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | |
| Die | 58 Series | | | | | | | | 80C-P10H | | | | |
| 510C | | | | | | | | | 1.000 | | | | |
| 518C | | | | | | | | | 1.020 | | | | |
| Die | | | | | | 80C-P05R | 80C-P0715 | 80C-P0885 | 80C-P1045 | | | | |
| 53DM | | | | | | 0.650 | 0.705 | 0.875 | 1.035 | | | | |
| 538DM | | | | | | 0.670 | 0.725 | 0.895 | 1.055 | | | | |
| Die | | | | | | | | | 80C-P10H | | | | |
| 55LT | | | | | | | | | 1.000 | | | | |
| | | | | | | | | | 1.020 | | | | |
| Die | | | | | | | | | | 80C-P12H | | | |
| 560 | | | | | | | | | | 1.150 | | | |
| | | | | | | | | | | 1.170 | | | |
| Die | | | | | 80C-P04H | | 80C-P06H | 80C-P08H | 80C-P10H | | | | |
| 580N | | | | | 0.668 | | 0.785 | 0.900 | 1.000 | | | | |
| 588N | | | | | 0.688 | | 0.805 | 0.920 | 1.020 | | | | |
| Die | | | | | | | | | 80C-P10H | | | | |
| 590 | | | | | | | | | 1.000 | | | | |
| | | | | | | | | | 1.020 | | | | |
| Die | | | | | | | 80C-P0715 | 80C-P08 | | | | | |
| D6 | | | | | | | 0.705 | 0.840 | | | | | |
| | | | | | | | 0.725 | 0.860 | | | | | |
| Die | | | | | | | 80C-P0705 | 80C-P08J | | | | | |
| H6 | | | | | | | 0.695 | 0.815 | | | | | |
| | | | | | | | 0.715 | 0.835 | | | | | |
| Die | | | | | | | 80C-P0725 | 80C-P08J | | | | | |
| HFS | | | | | | | 0.720 | 0.815 | | | | | |
| | | | | | | | 0.740 | 0.835 | | | | | |
| Die | 91 Series | | | 80C-T03 | | | | | | | | | 80C-T20 |
| 919 | | | | 0.295 | | | | | | | | | 1.415 |
| | | | | 0.305 | | | | | | | | | 1.435 |
| Die | 91N Series | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16N | | |
| 919 | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.045 | | |
| 919B | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.065 | | |
| Die | | | | | 80C-T04N | 80C-T05N | 80C-T06N | 80C-T08N | 80C-T10N | 80C-T12N | 80C-T16N | | |
| 929 | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.100 | | |
| 929B | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.120 | | |
| Die | | | | | 80C-T04J | 80C-T05J | 80C-T06J | 80C-T08J | 80C-T10J | 80C-T12J | 80C-T16J | | |
| 929BJ | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.100 | | |
| | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.120 | | |
| Die | | | | | 80C-T04J | 80C-T05J | 80C-T06J | 80C-T08J | 80C-T10J | 80C-T12J | 80C-T16J | | |
| 919J | | | | | 0.335 | 0.385 | 0.470 | 0.565 | 0.665 | 0.790 | 1.045 | | |
| 919U | | | | | 0.355 | 0.405 | 0.490 | 0.585 | 0.685 | 0.810 | 1.065 | | |
| Die | 92 Series | | | 80C-T05 | | | | | | | | | |
| PTH | | | | 0.450 | | | | | | | | | |
| | | | | 0.470 | | | | | | | | | |
| Die | 93N Series | | | | 80C-P04 | | | 83C-T08 | | | | | |
| 939 | | | | | 0.560 | | | 0.750 | | | | | |
| 939B | | | | | 0.580 | | | 0.770 | | | | | |
| Die | CY Series | | 80C-P0368 | | | | | | | | | | |
| 56DH | | | 0.361 | | | | | | | | | | |
| 568DH | | | 0.375 | | | | | | | | | | |
| Die | HLB | | 80C-P0368 | 80C-P0505 | | | | | | | | | |
| | | | 0.361 | 0.495 | | | | | | | | | |
| HLB | | | 0.375 | 0.515 | | | | | | | | | |
| Die | MS Series | | | | | 80C-M05 | 80C-M06 | | | | | | |
| MSH | | | | | | 0.535 | 0.640 | | | | | | |
| | | | | | | 0.555 | 0.660 | | | | | | |
| Die | | | | | | 80C-M05 | | | | | | | |
| MSXL | | | | | | 0.535 | | | | | | | |
| | | | | | | 0.555 | | | | | | | |
| Die | SF Series | 80C-T03 | | | | | | | | | | | |
| 56DH | | 0.295 | | | | | | | | | | | |
| 568DH | | 0.315 | | | | | | | | | | | |

Notes:

1. The Silver Spacer Ring (Part # 82C-R01-PFD) is required for all crimping operations listed unless noted
2. Crimp values applicable for steel, brass & stainless Parflex fittings
3. Refer to www.parker.com/crimpsource for updates, assembly instructions and other crimping options



For detailed ordering information, please consult price list or contact Parflex® Division.

Die Selection & Swage Specification Chart

Sewer Hose

| SWAGE DATA FOR SEWER CLEANING HOSE (SQ-101-SW SWAGE MACHINE ONLY) | | | | | | | | |
|-------------------------------------------------------------------|-----------|-------------|----------------|------------|----------------|----------------|---------------------|--------------|
| Hose Type | Hose I.D. | Male Pipe | | | Mender/Splicer | | Swage O.D. +/-0.015 | Swage Length |
| | inch | Fitting P/N | Die P/N | Pusher P/N | Fitting P/N | Die P/N | inch | inch |
| S408 | 1/2 | - | - | - | 1HU58-8-8 | SQ-101-08S4S | 0.910 | 0.750 |
| S410 | 5/8 | - | - | - | 1HUSQ-10-10 | SQ-101-10S4S5S | 1.060 | 1.065 |
| S508 | 1/2 | - | - | - | 1HU55-8-8 | SQ-101-08S5S | 0.850 | 0.750 |
| S612 | 3/4 | 101SQ-12-12 | SQ-101-12S6/S9 | SQ-101-12P | 1HUSQ-12-12 | SQ-101-12S6/S9 | 1.172 | 1.109 |
| S616 | 1 | 101SQ-16-16 | SQ-101-16S6 | SQ-101-16P | 1HUSQ-16-16 | SQ-101-16S6 | 1.445 | 1.156 |
| S620 | 1-1/4 | 101SQ-20-20 | SQ-101-20S6 | SQ-101-20P | 1HUSQ-20-20 | SQ-101-20S6 | 1.850 | 1.625 |
| S624 | 1-1/2 | - | - | - | - | - | - | - |
| S912 | 3/4 | 101SQ-12-12 | SQ-101-12S6/S9 | SQ-101-12P | 1HUSQ-12-12 | SQ-101-12S6/S9 | 1.172 | 1.109 |
| S916 | 1 | 101SQ-16-16 | SQ-101-16S9 | SQ-101-16P | 1HUSQ-16-16 | SQ-101-16S9 | 1.488 | 1.156 |

Comments:

1. Two dies required when swaging a mender/splicer fitting. A pusher is not required when swaging a mender/splicer fitting.
2. One die and one pusher required when swaging a male pipe fitting.
3. End fittings cannot be swaged on S4 series hose. Only mender/splicers can be swaged.
4. End fittings cannot be swaged on S5 series hose. Only mender/splicers can be swaged.
5. Fittings cannot be swaged on SLH series hose.
6. Fittings cannot be swaged on S624 hose.

The information covered in the Swage Specification & Tool Selection Chart pertains to steel, stainless and brass hose fittings. Swage diameter roundness shall not vary by more than .010". Swage diameters are measured in the center to the crimp area. Parflex Division reserves the right to alter swage specifications.

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-41

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

Hose Fitting Insertion Values

Inch

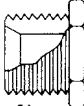
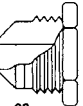


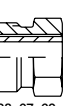

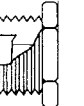

| Hose Dash Size | 51 | 54 | 55/57/58 | 58H | 91N | 92 | 93N | BU | CY | LV/LH | MS Reusable | MS Permanent |
|----------------|---------|-------|----------|---------|-------|------|-------|-------|-------|---------|-------------|--------------|
| -2 | | | 5/8 | | | | | 1/2 | 1/2 | | | |
| -3 | 13/16 | 5/8 | 29/32 | | 7/16 | 9/16 | | 13/16 | 13/16 | 13/16 | | |
| -4 | 15/16 | 3/4 | 1-3/16 | | 1/2 | | | | | | | |
| -5 | 15/16 | 7/8 | 1-3/16 | | 9/16 | | | | | | 11/16 | 11/16 |
| -6 | 1-5/16 | 15/16 | 1-5/16 | | 5/8 | | 7/16 | | | | 15/16 | 3/4 |
| -8 | 1-19/32 | 15/16 | 1-9/16 | | 11/16 | | 7/16 | | | 2-1/8 | | |
| -10 | | | 1-11/16 | | 11/16 | | 3/4 | | | 2-1/4 | | |
| -12 | 1-13/16 | | 1-23/32 | 2-3/16 | 3/4 | | 7/8 | | | 2-3/8 | | |
| -16 | 1-9/16 | | 2-9/32 | 2-15/16 | 15/16 | | 15/16 | | | 2-13/16 | | |
| -20 | | | | | 1 | | 1 | | | | | |
| -24 | | | | | | | 1-1/8 | | | | | |
| -32 | | | | | | | 1-3/8 | | | | | |


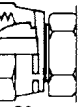

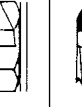

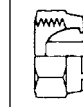
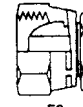
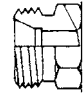
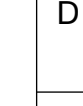
Metric (mm)

| Hose Dash Size | 51 | 54 | 55/57/58 | 58H | 91N | 92 | 93N | BU | CY | LV/LH | MS Reusable | MS Permanent |
|----------------|----|----|----------|-----|-----|----|-----|----|----|-------|-------------|--------------|
| -2 | | | 16 | | | | | 13 | 13 | | | |
| -3 | 21 | 16 | 23 | | 11 | 14 | | 21 | 21 | 21 | | |
| -4 | 24 | 19 | 30 | | 13 | | | | | | | |
| -5 | 24 | 22 | 30 | | 14 | | | | | | 17 | 17 |
| -6 | 33 | 24 | 33 | | 16 | | 11 | | | | 24 | 19 |
| -8 | 40 | 24 | 40 | | 17 | | 11 | | | 54 | | |
| -10 | | | 43 | | 17 | | 19 | | | 57 | | |
| -12 | 46 | | 44 | 56 | 19 | | 22 | | | 60 | | |
| -16 | 40 | | 58 | 75 | 24 | | 24 | | | 71 | | |
| -20 | | | | | 25 | | 25 | | | | | |
| -24 | | | | | | | 29 | | | | | |
| -32 | | | | | | | 35 | | | | | |

Hose Fitting Thread Guide

There are more than one hundred types of threads for fittings. Below are some of the most common thread styles offered by Parflex. The end code in a fitting part number is located directly after the first digit. ie. 10355-8-8

| End Code |  |  |  |  |  |  |  |  |
|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dash Size | NPTF Pipe Thread Size | SAE (JIC) 37° Flare Thread Size | SAE 45° Flare Thread Size | "O" Ring Style Straight Thread Size | SAE Inverted Flare Thread Size | PTT 30° Flare Thread Size | SAE Flareless Thread Size | Seal-Lok™ Thread |
| 2 | 1/8 - 27 | 5/16 - 24 | 5/16 - 24 | 5/16 - 24 | - | - | 5/16 - 24 | - |
| 3 | - | 3/8 - 24 | 3/8 - 24 | 3/8 - 24 | 3/8 - 24 | - | 3/8 - 24 | - |
| 4 | 1/4 - 18 | 7/16 - 20 | 7/16 - 20 | 7/16 - 20 | 7/16 - 18 | - | 7/16 - 20 | 9/16 - 18 |
| 5 | - | 1/2 - 20 | 1/2 - 20 | 1/2 - 20 | 1/2 - 20 | - | 1/2 - 20 | - |
| 6 | 3/8 - 18 | 9/16 - 18 | 5/8 - 18 | 9/16 - 18 | 5/8 - 18 | - | 9/16 - 18 | 11/16 - 16 |
| 8 | 1/2 - 14 | 3/4 - 16 | 3/4 - 16 | 3/4 - 16 | 3/4 - 18 | - | 3/4 - 16 | 13/16 - 16 |
| 10 | - | 7/8 - 14 | 7/8 - 14 | 7/8 - 14 | 7/8 - 18 | - | 7/8 - 14 | 1 - 14 |
| 12 | 3/4 - 14 | 1 1/16 - 12 | 1 1/16 - 14 | 1 1/16 - 12 | 1 1/16 - 16 | - | 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 | - |
| 24 | 1 1/2 - 11 1/2 | 1 7/8 - 12 | - | 1 7/8 - 12 | - | 1 7/8 - 14 | 1 7/8 - 12 | - |
| 32 | 2 - 11 1/2 | 2 1/2 - 12 | - | 2 1/2 - 12 | - | 2 1/2 - 12 | 2 1/2 - 12 | - |

| End Code |  |  |  |  |  |  |  |  |  |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Dash Size | Metric Swivel Female Thread Size | Metric Swivel Female Thread Size | Male Stud Thread Size | Male Stud Thread Size | Male BSPP Thread Size | BSP Swivel Female Thread Size | French Swivel Female Gas Series | French Swivel Female Metric Series | French Male Stud Gas Series |
| 4 | - | - | - | - | 1/4" | 1/4" | - | - | - |
| 6 | M12 x 1,5 | - | M12 x 1,5 | - | 3/8" | 3/8" | - | M12 x 1 | - |
| 8 | M14 x 1,5 | M16 x 1,5 | M14 x 1,5 | M16 x 1,5 | 1/2" | 1/2" | - | M14 x 1,5 | - |
| 10 | M16 x 1,5 | M18 x 1,5 | M16 x 1,5 | M18 x 1,5 | - | 5/8" | - | M16 x 1,5 | - |
| 12 | M18 x 1,5 | M20 x 1,5 | M18 x 1,5 | M20 x 1,5 | 3/4" | 3/4" | - | M18 x 1,5 | - |
| - | - | - | - | - | - | - | M20 x 1,5 | - | M20 x 1,5 |
| 14 | - | M22 x 1,5 | - | M22 x 1,5 | - | - | - | M20 x 1,5 | - |
| 15 | M22 x 1,5 | - | M22 x 1,5 | - | - | - | - | M22 x 1,5 | - |
| 16 | - | M24 x 1,5 | - | M24 x 1,5 | 1" | 1" | - | M24 x 1,5 | - |
| - | - | - | - | - | - | - | M24 x 1,5 | - | M24 x 1,5 |
| 18 | M26 x 1,5 | - | M26 x 1,5 | - | - | - | - | M27 x 1,5 | - |
| 20 | - | M30 x 2 | - | M30 x 2 | - | - | - | M27 x 1,5 | - |
| - | - | - | - | - | - | - | M30 x 1,5 | - | M30 x 1,5 |
| 22 | M30 x 2 | - | M30 x 2 | - | - | - | - | M30 x 1,5 | - |
| 25 | - | M36 x 2 | - | M36 x 2 | - | - | - | M33 x 1,5 | - |
| - | - | - | - | - | - | - | M36 x 1,5 | - | M36 x 1,5 |
| 28 | M36 x 2 | - | M36 x 2 | - | - | - | - | - | - |
| 30 | - | M42 x 2 | - | M42 x 2 | - | - | - | M39 x 1,5 | - |
| 33 | - | - | - | - | - | - | M45 x 1,5 | - | M45 x 1,5 |

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-43

A
Hose

B
Tubing

C
Coiled Air Hose & Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment & Accessories

G
General Technical

Media to Fitting & Seal Compatibility

| Media | Fitting Material | | | Seal Material | | | |
|----------------------------------------|------------------|-------|--------|---------------|--------------------|--------------|----------|
| | Brass | Steel | 316 SS | BUNA-N | Ethylene Propylene | Fluorocarbon | Neoprene |
| Acetylene | NR | F | S | S | S | S | F |
| Air (oil free) @ 190° F | S | F | S | S | S | S | S |
| Air (oil free) @ 300° F | S | F | S | F | F | S | F |
| Air (oil free) @ 400° F | S | F | S | NR | NR | S | NR |
| Alcohol, Ethyl | S | NR | NR | NR | S | NR | S |
| Animal Oils (Lard Oil) | F | F | F | S | F | S | F |
| Aromatic Fuel - 50% | ID | ID | ID | F | NR | S | NR |
| Aromatic Solvents | ID | ID | F | F | ID | S | NR |
| Asphalt | NR | NR | S | F | NR | S | F |
| ASTM Oil #1 | S | S | S | S | NR | S | S |
| ASTM Oil #2 | S | S | S | S | NR | S | F |
| ASTM Oil #3 | S | S | S | S | NR | S | NR |
| ASTM Oil #4 | S | S | S | F | NR | S | NR |
| ATF Oil | S | S | S | S | NR | S | F |
| Automotive Brake Fluid | ID | ID | ID | NR | S | NR | F |
| Benzene | NR | F | NR | NR | NR | S | NR |
| Brine (Sodium Chloride) | NR | NR | S | S | S | S | S |
| Butane | NR | S | S | S | NR | S | S |
| Carbon Dioxide | S | F | S | S | S | S | S |
| Carbon Monoxide | S | S | S | S | S | S | F |
| Chlorine (Dry) | F | F | NR | NR | ID | F | F |
| Compressed Air | S | F | S | S | S | S | S |
| Crude Oil | NR | F | S | F | NR | S | NR |
| Cutting Oil | ID | S | S | S | NR | S | F |
| Diesel Fuel | S | S | S | S | NR | S | NR |
| Ethanol | S | NR | NR | NR | S | NR | S |
| Ethers | S | S | S | NR | F | F | NR |
| Freon 11 | S | ID | ID | F | NR | F | NR |
| Freon 12 | S | S | NR | F | NR | S | S |
| Freon 22 | S | NR | S | NR | NR | NR | S |
| Fuel Oil | NR | S | S | S | NR | S | F |
| Gasoline | S | F | S | S | NR | S | NR |
| Gas, Liquid Propane (LPG) | S | S | S | S | NR | S | F |
| Gas, Natural | F | S | S | S | NR | S | S |
| Helium | S | S | S | S | S | S | S |
| Hydraulic Oil, Petroleum Base | S | S | S | S | NR | S | S |
| Hydraulic Oil, Water Base | ID | S | S | F | S | NR | F |
| Hydrogen Gas | S | S | S | S | S | S | S |
| Jet Fuel | S | S | S | S | NR | S | NR |
| Kerosene | S | S | S | S | NR | S | F |
| Lubricating Oil SAE 10, 20, 30, 40, 50 | S | S | S | S | NR | S | F |



For detailed ordering information, please consult price list or contact Parflex® Division.

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Media to Fitting & Seal Compatibility (cont.)

| Media | Fitting Material | | | Seal Material | | | |
|-----------------------------|------------------|-------|--------|---------------|--------------------|--------------|----------|
| | Brass | Steel | 316 SS | BUNA-N | Ethylene Propylene | Fluorocarbon | Neoprene |
| Methanol | S | S | S | S | S | NR | S |
| MIL-F-8192 (JP-9) | S | S | S | NR | NR | S | NR |
| MIL-H-5606 | S | S | S | S | NR | S | F |
| MIL-H-6083 | S | S | S | S | NR | S | S |
| MIL-H-7083 | S | S | S | S | S | F | F |
| MIL-H-8446 (MLO-8515) | F | S | S | F | NR | S | S |
| Mil-L-2104 & 2104B | S | S | S | S | NR | S | F |
| MIL-L-7808 | NR | F | S | F | NR | S | NR |
| Mineral Oil | S | S | S | S | NR | S | F |
| Nitrogen | S | S | S | S | S | S | S |
| Petrolatum | S | S | S | S | NR | S | F |
| Petroleum Oil (<250° F) | S | S | S | S | NR | S | F |
| Propane | S | S | S | S | NR | S | F |
| R134A | S | S | S | NR | S | NR | NR |
| Sea Water | F | NR | S | S | S | S | F |
| Skydrol 500, Type 2 | NR | S | S | NR | S | NR | NR |
| Skydrol 7000, Type 2 | NR | S | S | NR | S | F | NR |
| Soap Solutions | NR | NR | S | S | S | S | F |
| Steam (<400° F) | F | S | S | NR | S | NR | NR |
| Stoddard Solvent | F | S | S | S | NR | S | F |
| Transmission Fluid (Type A) | S | S | S | S | NR | S | F |
| Trichloroethane | ID | F | S | NR | NR | S | NR |
| Water | S | F | S | S | S | F | F |

Table U4 – Fluid Compatibility Chart

Codes:

S = Satisfactory

F = Fair

NR = Not recommended

ID = Insufficient data

Metal Tube & Fitting Material Compatibility

As a general rule, tube and fitting materials should be the same. If different materials must be considered, the following chart can be used as a general guide. Since operating conditions differ with applications, this chart should be used only as a guide and not a firm recommendation. Before making a final

decision on material combination, it should be sufficiently tested under appropriate conditions to assure suitability for the intended application. For additional material combinations, contact the Tube Fittings Division.

| Tube Material | Specification | Construction | Condition | Maximum Hardness | Temperature Range (7) | Application | Tube Material to Fitting & Material Compatibility | | | | | | | | | | | |
|---------------------------------------------|--------------------------|---------------------------|-------------------------|----------------------|---------------------------------------|--------------------------------------------------------------------|---------------------------------------------------|-----|-----|----------------------------------|-----|-----|----|-------------------------------|----|----|----------------------|--------------------------------|
| | | | | | | | Seal-Lok™ ORFS (SAE J1453) | | | Triple-Lok® 37° Flare (SAE J514) | | | | Ferulok® Flareless (SAE J514) | | | Intru-Lok® Flareless | EO/EO-2 Flareless (ISO 8434-1) |
| | | | | | | | S | SS | B | S | SS | B | M | S | SS | M | B | S SS B, M |
| Carbon Steel C-1010 | SAE J524 (ASTM A179) (8) | Seamless | Fully Annealed | HRB 72 | -65° to 500°F -55° to 260°C | High pressure hydraulics, air, & some specialty chemicals | E | NR | (6) | G | NR | (6) | NR | E | NR | NR | NR | NR |
| | SAE J525 (ASTM A178) (8) | Welded & Drawn | | | | | E | NR | (6) | E | NR | (6) | NR | E | NR | NR | NR | NR |
| | SAE J356 | Welded & Flash Controlled | | | | | G | NR | (6) | NR | NR | (6) | NR | G | NR | NR | NR | NR |
| Carbon Steel C-1021 | SAE J2467 | Welded & Flash Controlled | Fully Annealed | HRB 75 | -65° to 500°F -55° to 260°C | High pressure hydraulics | E | NR | (6) | NR | NR | (6) | NR | E | NR | NR | NR | NR |
| | SAE J2435 | Welded & Drawn | | | | | E | NR | (6) | E | NR | (6) | NR | E | NR | NR | NR | NR |
| Carbon Steel High Strength Low Alloy (HSLA) | SAE 2613 | Welded & Flash Controlled | Sub-critically annealed | HRB 90 | -65° to 500°F -55° to 260°C | High pressure hydraulics | E (10) | NR | (6) | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | SAE J2614 | Welded & Drawn | | | | | E | NR | (6) | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Alloy Steel 4130 | ASTM A519 | Seamless | | | -65° to 500°F -55° to 260°C | High pressure hydraulics | E (4) | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| St 37.4 (Carbon Steel) | DIN 2391 Part 2 (Metric) | Seamless | Fully Annealed | HRB 72 | -65° to 500°F -55° to 260°C | High pressure hydraulics, air, & some specialty chemicals | E | NR | NR | G | NR | NR | NR | NR | NR | NR | NR | E |
| Stainless Steel 304 & 316 | ASTM A213 ASTM A269 | Seamless | Fully Annealed | HRB 90 | -425° to 1200°F -255° to 650°C (3) | High pressure, high temp, or generally corrosive media (1) | (6) | E | (6) | (6) | G | (6) | NR | (6) | E | NR | NR | NR |
| | ASTM A249 ASTM A269 | Welded & Drawn | | | | | (6) | E | (6) | (6) | E | (6) | NR | (6) | E | NR | NR | NR |
| 1.4571 1.4541 Stainless Steel | DIN 17458 Tab 8 (Metric) | Seamless | Fully Annealed | HRB 90 | -425° to 120°F -255° to 650°C (3) | High pressure, high temp, or generally corrosive media (1) | (6) | E | NR | (6) | G | NR | NR | NR | E | NR | NR | E |
| Copper | SAE J528 (ASTM B-75) (8) | Seamless | Soft Annealed Temper 0 | 60 Max. Rockwell 15T | -325° to 400°F -200° to 205°C | Low pressure, low temp, water, oil & air | E | (6) | E | G | (6) | E | NR | G (2) | NR | NR | E | E |
| Aluminum 6061 | ASTM-B210 | Seamless | T6 Temper | HRB 56 | -325° to 400°F -200° to 205°C | Low pressure, low temp, water, oil, air & some specialty chemicals | NR | NR | NR | G | NR | NR | NR | E (2) | NR | NR | (6) | NR |
| | | | O & T4 Temper | HRB 30 | | | E (5) | NR | NR | G | NR | NR | NR | E (2) | NR | NR | (6) | NR |

(Cont.)



For detailed ordering information, please consult price list or contact Parflex® Division.

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Metal Tube & Fitting Material Compatibility (cont.)

| Tube Material | Specification | Construction | Condition | Maximum Hardness | Temperature Range (7) | Application | Tube Material to Fitting & Material Compatibility | | | | | | | | | | | |
|---------------|---------------|---------------------|-------------------------------|------------------|----------------------------------|----------------------------------------------------|---------------------------------------------------|-----|----|----------------------------------|-----|----|----|-------------------------------|-------|-------|----------------------|--------------------------------|
| | | | | | | | Seal-Lok™ ORFS (SAE J1453) | | | Triple-Lok® 37° Flare (SAE J514) | | | | Ferulok® Flareless (SAE J514) | | | Intru-Lok® Flareless | EO/EO-2 Flareless (ISO 8434-1) |
| | | | | | | | S | SS | B | S | SS | B | M | S | SS | M | B | S SS B, M |
| Monel 400 | ASTM-B165 | Seamless | Fully Annealed | HRB 70 | -400° to 800°F -240° to 425°C | Sour gas, marine & gen chemical processing media | NR | (6) | NR | NR | (6) | NR | E | NR | (6) | E | NR | NR |
| Nylon | | Extruded | Flexible & Semi-Rigid | | -60° to 200°F -50° to 95°C | Lube lines, chemical process controls & air | NR | NR | NR | NR | NR | NR | NR | G (2) | G (2) | G (2) | E | G (2), (9) |
| Polyethylene | ASTM D-1248 | Extruded | Instrument Grade | | -80° to 150°F -60° to 65°C | Instrumentation lines | NR | NR | NR | NR | NR | NR | NR | G (2) | G (2) | G (2) | E | G (2), (9) |
| PVC | | Extruded | Instrument & Laboratory Grade | | 0° to 140°F -20° to 60°C | General purpose laboratory use | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | G | NR |
| PTFE | | Extruded & Sintered | | | -65° to 400°F -55° to 205°C | Very high temp, fuel, tube, chemical, pharma, food | NR | NR | NR | NR | NR | NR | NR | G (2) | G (2) | G (2) | G | G (2), (9) |

Table U7 – Tube and Fitting Material Compatibility

Ratings Key:

NR = Not Recommended
F = Fair
G = Good
E = Excellent

Fittings Materials Code:

S = Steel
SS = Stainless Steel
B = Brass
M = Monel

Notes:

- For highly corrosive media or service environment, contact the Tube Fittings Division.
- Requires different assembly procedure. Contact the Tube Fittings Division.
- Low temperature limit for stainless steel Ferulok® fittings is -20°F (-30°C).
- For brazing only. Grade 4130 not recommended with Parflange process.
- For use with Parflange process only. Not recommended with brazing.
- Use depends on specific application. Contact the Tube Fittings Division.
- Applies to tube material.
- Comparable specifications to SAE.
- With metric version of tubing.
- Not tested with Parflange. Contact the Tube Fittings Division.

O-Ring Material Selection

Standard O-rings supplied with Parker tube fittings and adapters are 90 durometer hard nitrile (Buna-N) Parker compound #N0552. These O-rings are well suited for most industrial hydraulic and pneumatic systems. They have high extrusion resistance making them suitable for very high pressure static applications. Optional high temperature fluorocarbon, Parker compound #V0894, is also available for higher temperature specifications.

O-rings for other than normal hydraulic media or higher temperature applications can be selected from the following chart. The chart should be used only as a general guide. Before making final selection for a given application, it is recommended that appropriate tests be conducted to assure compatibility with the fluid, temperature, pressure and other environmental conditions.

For fluids not shown in the chart, please contact the Tube Fittings Division.

| Polymer | Abbreviated Name | Parker Compound No. | Color | SAE J515 Type | Hardness Shore "A" ⁷ | Temperature Range | Recommended For | Not Recommended For |
|-------------------------------------------------|-------------------------|---------------------|-------------------|-----------------|---------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Nitrile-Butadiene | NBR | N0552 | ● B | CH ² | 90 ⁶ | -30° to 250°F | Petroleum base oils and fluids, mineral oils, ethylene glycol base fluids, silicone and di-ester base lubricants, air, water under 150°F, and natural gas. Hydrogen fuel cells. Meets FDA requirements for food products. CNG Applications. | Phosphate ester base hydraulic fluids, automotive brake fluids, strong acids, ozone, freons, ketones, halogenated hydrocarbons, and methanol. |
| | | N0674 | | - | 70 | -30° to 250°F | | |
| | | N0103 | | - | 70 | -65° to 225°F | | |
| Nitrile-Butadiene (Low compression set – N1059) | | N1059 | | CH ² | 90 | -30° to 275°F | | |
| Nitrile-Butadiene | | N0507 | | - | 90 | -65° to 180°F | | |
| | | N0304 | | - | 75 | -65° to 225°F | | |
| | | N0508 | | - | 75 | -35° to 250°F | | |
| | | N0756 | | - | 75 ⁶ | -65° to 275°F | | |
| Ethylene-Propylene | EPDM | E0540 | ● B | CA ³ | 80 | -65° to 275° F | Phosphate ester base hydraulic fluids, hot water, steam to 400°F, silicone oils and greases, dilute acids and alkalis, ketones, alcohols and automotive brake fluids. CO ₂ climate control systems. | Petroleum base oils and di-ester base lubricants. |
| | | E0893 | ● P ¹ | CA ³ | 80 | | | |
| | | E0962 | ● B | - | 90 | | | |
| Neoprene | CR | C0873 | ● B | - | 70 | -45° to 250° F | Refrigerants (freons, ammonia), high aniline point petroleum oils, mild acids and silicate ester lubricants. | Phosphate ester fluids and ketones. |
| | | C0944 | ● R ¹ | - | 70 | | | |
| Fluorocarbon | FKM ⁵ or FPM | V0747 | ● B | - | 75 | -15° to 400° F | Petroleum base oils and fluids, some phosphate ester base fluids, silicone and silicate ester base lubricants, di-ester base lubricants, acids and halogenated hydrocarbons. | Ketones, skydrol fluids, amines (VDMH), anhydrous ammonia, low molecular weight esters and ethers, and hot hydrofluoric or chlorosulfonic acids. |
| | | V0884 | ● BR ¹ | - | 75 | | | |
| | | V0894 | ● BR ¹ | HK ⁴ | 90 ⁶ | | | |
| Silicone | Si | S0604 | ● RU ¹ | - | 70 | -65° to 450° F | Dry heat (air to 400°F) and high aniline point oils. | Most petroleum fluids, ketones, water and steam. |

Table U-6 – O-Ring Selection

*Color Code: B – Black, P – Purple, R – Red, BR – Brown, RU – Rust

Notes:

- These Parker "Chromassure" color assurance O-rings are available from the Parker Hannifin O-Ring Division. They help eliminate assembly errors, reduce warranty costs and liability risks, and assure safety in aftermarket business.
- Formerly SAE Type I.
- Formerly SAE Type II.
- Formerly SAE Type III.
- "FKM" is the ASTM designation for fluorocarbon. Its ISO designation is "FPM".
- Standard compounds available from stock.
- Use 90 durometer hard O-rings for applications with 1500 PSI or higher pressures.



For detailed ordering information, please consult price list or contact Parflex® Division.

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Metals Corrosion Scale

Corrosion of Base Metals in Contact

The susceptibility of different base metals to corrosion while in contact depends upon the difference between the contact potentials or the electromotive voltages of the metals involved. The greater the potential difference is, the greater is the tendency for corrosion. The metal with the higher potential forms the anode and is corroded. The larger the separation distance in the electromotive chart between the two metals in contact, the higher the contact potential and chances for corrosion. For example, zinc and aluminum are very short distance apart in the chart; therefore potential for corrosion when these two metals are in contact is very low. On the other hand, aluminum and passivated 316 stainless steel are far apart; hence, when in contact, the potential for corrosion is very high. Aluminum, being more anodic metal, will corrode in this combination.

As a general guideline, if the metals are half the length of the chart or more apart, the combination should be avoided. Also, it is not a good idea to combine an anodic metal part with thin cross section, such as thin wall tubing, with a cathodic or less anodic metal part of a heavy cross section, such as a fitting.

Example: A thin wall brass tube with steel fitting is a better, although not ideal, combination than a thin wall steel tube with brass fitting.

| Electromotive or Galvanic Series for Metals | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>+ Anodic (least noble) corroded</p> <p>Electric current flows from plus to minus</p> <p>Direction of attack</p> <p>- Cathodic (most noble) protected</p> | <p>Magnesium Magnesium alloys Zinc (Parker steel fittings are zinc plated) Beryllium Aluminum 5052, 3004, 3003, 1100, 6053 Cadmium Aluminum 2117, 2017, 2024 Mild steel (1018), wrought iron, free machining steel (12L14) Low alloy high strength steel, cast iron Chrome iron (active) 430 Stainless (active) 302, 303, 321, 347, 410, 416, stainless steel (active) Ni-resist 316, 317 stainless steel (active) Carpenter 20Cb-3 stainless (active) Aluminum bronze (CA 687) Hastelloy C (active) Inconel 625 (active) Titanium (active) Lead/Tin solder Lead Tin Inconel 600 (active) Nickel (active) 60 Ni-15 Cr (active) 80 Ni-20 Cr (active) Hastelloy B (active) Naval brass (CA 464), Yellow brass (CA 268), Brass (CA360) Red brass (CA 230), Admiralty brass (CA 443) Copper (CA 102) Manganese bronze (CA 675), Tin bronze (CA 903, 905) 410, 416 Stainless (passive) Phosphor bronze (CA 521, 524) Silicon bronze (CA 651, 655) Nickel silver (CA 732, 735, 745, 752, 754, 757, 764, 770, 794) Cupro Ni 90-10 Cupro Ni 80-20 430 Stainless steel (passive) Cupro Ni 70-30 Nickel aluminum bronze (CA 630, 632) Monel 400, K500 Silver solder Nickel (passive) 60 Ni 15 Cr (passive) Inconel 600 (passive) 80 Ni 20 Cr (passive) Chrome iron (passive) 302, 303, 304, 321, 347 stainless steel (passive) 316, 317 stainless steel (passive) (Parker stainless steel fittings are passivated) Carpenter 20 Cb-3 stainless (passive), Incoloy 825 Silver Titanium (passive), Hastelloy C & C276 (passive), Inconel 625 (passive) Graphite Zirconium Gold Platinum</p> |

Table U5 – Electromotive or Galvanic Series for Metals

Materials to Parflex Part Number Guide

Ratings Code:

- G – Good to excellent. Little or no swelling, tensile or surface changes. Preferred choice.
- L – Marginal or conditional. Noticeable effects but not necessarily indicating lack of serviceability. Further testing suggested for specific application. Very long-term effects such as stiffening or potential for crazing should be evaluated.
- P – Poor or unsatisfactory. Not recommended without extensive and realistic testing.
- – Indicates that this was not tested.
- # – For fluoropolymer. Indicates good chemical resistance but potential for excessive permeation.

| MATERIAL CODE FOR HOSE CORE TUBES | |
|----------------------------------------|-----------------------------------|
| H | Copolyester |
| N | Nylon |
| NC | Nylon Co-Polymer |
| O | Polyolefin |
| PFX | Proprietary Elastomer |
| TFE/PFA | Fluoropolymer PTFE/PFA |
| U | Polyurethane |
| MATERIAL CODE FOR HOSE COVERS | |
| EPDM | Copolyester (Rubber) |
| HF | Low Temperature Copolyester |
| PFX | Proprietary Elastomer |
| S | Silicone |
| U | Polyurethane |
| MATERIAL CODE FOR THERMOPLASTIC TUBING | |
| HDPE | High Density Polyethylene |
| N | Flexible Nylon |
| NR | Unplasticized Nylon (semi-rigid) |
| PE | Linear Low Density Polyethylene |
| PEFR | Flame Resistant Polyethylene |
| PP | Polypropylene |
| PV | Flexible Polyvinyl Chloride (PVC) |
| U | Polyurethane |
| MATERIAL CODE FOR FLUOROPOLYMER TUBING | |
| FEP | Fluorinated Ethylene Propylene |
| PFA | Perfluoroalkoxy |
| TFE | Polytetrafluoroethylene |
| PVDF | Polyvinylidene Fluoride |

| PARKER PRODUCT | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| D6, H6, R6, HFS, HFS2, M8, HTB, HJK, 560, 563, 590, 593, 510C, 518C, 515H, 53DM/538DM, 55LT, HLB, S4, S5, S6, S9, SLH, XDH | |
| 520N, 526BA, 527BA, 528N, 540N, 548N, 56DH/568DH, 573X, 575X, 580N, 580N, 588N, 1035HT, 5CNG, MSH, MSXL, PTH | |
| 510, 510A | |
| 540P | |
| 1035A | |
| 919/919B, 919J, 919U, 929/929B, 929BJ, 939/939B, 943B, 944B, 950B, 955B, S30/S30B, S40/S40B, STW/STWB, SCW/SCB, PCW/PCB, SBFB/SBFW, SCWV/SCBV, PCWV/PCBV, SCWV-FS/SCBV-FS, PCWV-FS/PCBV-FS | |
| 83FR, B9 | |
| PARKER PRODUCT | |
| RCTW/RCTB (Contact Engineering for chemical resistance questions) | |
| 55LT, 53DM/538DM | |
| 510C, 518C | |
| SWPV, 919J, 919BJ | |
| All except 55LT, 53DM/538DM, 518C, 1035HT and PTFE hoses | |
| PARKER PRODUCT | |
| HDPE | |
| N | |
| NR | |
| E | |
| PEFR | |
| PP | |
| PV | |
| U, HU | |
| PARKER PRODUCT | |
| 103, 203, HS1.3FEP, HS1.6FEP, | |
| 104, 204 | |
| TFL, TFS, TFT, TFH, 101, 201, TFB, HS2TFS, HS2TFT, HS2TFL, HS2TFI, HS4TFI | |
| 110, 111 | |

Media to Hose Material Compatibility Guide

| Media | H | N | U/HF UFR | PV | NC | O | OC | PFX | HFR | FEP | PTFE/ PFA |
|-------------------------------------|---|---|-------------|----|----|---|----|-----|-----|-----|--------------|
| Acetaldehyde | G | L | L | P | - | L | P | L | G | G | G |
| Acetic Acid Glacial | L | L | L | G | P | G | L | L | L | L | G |
| Acetone | L | G | P | P | G | P | P | P | L | G | G |
| Acetylene | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Air (4) | G | G | G | G | G | G | G | G | G | G | G |
| Ammonium Chloride | G | P | G | G | P | G | G | G | G | L | G |
| Ammonium Hydroxide | L | G | P | L | - | G | G | P | L | G | G |
| Anhydrous Ammonia | P | P | P | P | P | P | P | P | P | 8 | 8 |
| Aniline | P | P | P | P | P | L | P | P | P | G | G |
| Animal Oils (6) | G | G | G | G | G | P | P | G | G | - | G |
| Aromatic Hydrocarbons | L | G | L | P | G | P | - | L | L | - | G |
| Asphalt | G | G | G | G | G | L | L | G | G | L | G |
| Baygon (Insecticide) | L | G | P | - | - | - | - | P | L | - | G |
| Beer | G | G | G | G | - | G | G | G | G | G | G |
| Benzene | L | G | L | P | L | P | P | L | L | G | G |
| Brake Fluid (DOT #3) | - | G | P | P | - | P | P | P | - | - | G |
| Butane (2) (4) | G | G | L | L | P | L | P | L | G | # | # |
| Butter (6) | G | G | G | G | - | G | G | G | G | - | G |
| Calcium Chloride | G | 3 | G | L | 3 | G | G | G | G | G | G |
| Carbon Dioxide (4) | G | G | G | G | G | G | G | G | G | # | # |
| Carbon Monoxide (4) | G | 3 | G | G | 3 | L | - | G | G | # | # |
| Carbon Tetrachloride | L | G | P | L | G | P | P | P | L | G | G |
| Castor Oil | G | L | L | G | L | P | P | L | G | - | G |
| Chlorinated Hydrocarbon Base Fluids | L | G | L | P | - | - | - | L | L | - | G |
| Chlorinated Petroleum Oil | G | G | L | - | L | - | - | L | G | - | - |
| Chlorinated Solvents | P | 3 | P | L | 3 | L | L | P | P | - | G |
| Chlorine, Gaseous, Dry | P | P | P | G | P | L | P | P | P | # | # |
| Chlordane (Insecticide) | L | G | P | - | - | - | - | P | L | - | - |
| Chloroform | P | P | P | P | P | P | P | P | P | G | G |
| Chromic Acid | P | 3 | P | G | P | 3 | L | P | P | L | G |
| Citric Acid Solutions | G | G | L | G | G | G | G | L | G | G | G |
| Crude Petroleum Oil | G | G | G | G | G | P | P | G | G | - | G |
| Cyclohexane (2) | G | G | G | - | - | P | P | G | G | G | G |
| Cygon (Insecticide) | L | G | P | - | - | - | - | P | L | - | - |
| Diazin (Insecticide) | L | - | P | L | - | - | | | | | |
| Diesel Fuel (2) | G | G | G | L | G | P | P | G | G | - | G |
| Diester Oils | L | G | P | P | - | P | P | P | L | - | G |
| Enamels | G | G | G | L | - | L | L | G | G | - | G |
| Ethanol (6) | G | G | L | L | L | G | G | L | G | - | G |
| Ethers | L | G | P | L | G | L | P | P | L | G | G |
| Ethylene Glycol | L | G | L | G | G | G | G | L | G | G | G |
| Ethylene Oxide | G | G | L | P | - | L | L | L | G | # | # |
| Fatty Acids | G | G | 3 | G | G | L | L | 3 | G | G | G |
| Formaldehyde | L | L | P | L | L | G | L | P | L | G | G |
| Formic Acid | P | P | P | G | P | G | G | P | P | G | G |

(Cont.)

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-51

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Media to Hose Material Compatibility Guide (cont.)

| Media | H | N | U/HF UFR | PV | NC | O | OC | PFX | HFR | FEP | TFE |
|-----------------------------------------------|---|---|-------------|----|----|---|----|-----|-----|-----|-----|
| Freon 12 (5) | P | G | L | G | G | L | - | L | P | # | # |
| Freon 22 (5) | P | G | L | G | G | L | - | L | P | # | # |
| Fruit Juices | G | G | G | G | - | G | G | G | G | - | G |
| Fuel Oil (2) | G | G | L | L | G | P | P | L | G | G | G |
| Gas (Oil) (2) | G | G | G | G | G | P | P | G | G | - | G |
| Gas (Natural) (4) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Gasoline (2) | G | G | 3 | P | G | P | P | 3 | G | G | G |
| Glue | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Glycerin | G | G | L | G | G | G | G | L | G | G | G |
| Glycols (to 135°F) | L | G | L | G | G | - | - | L | G | G | G |
| Grease (Petroleum base) | G | G | G | G | G | L | L | G | G | - | G |
| Heptachlor (Insecticide) | L | G | P | L | - | P | P | P | L | - | G |
| Hexane (2) | G | G | G | L | G | P | P | G | G | G | G |
| Houghto Safe-600 Series (Hydraulic fluid) | G | G | L | G | G | G | L | L | G | - | G |
| Houghto Safe-1000 Series (Phosphate esters) | L | G | P | G | G | P | P | P | L | - | G |
| Hydraulic Fluid (Petroleum base) | G | G | G | G | G | L | L | G | G | L | G |
| Hydraulic Fluid (Phosphate ester base) | L | G | L | L | G | P | P | P | L | - | G |
| Hydraulic Fluid (Water glycol base) | G | G | G | L | G | - | - | G | G | - | G |
| Hydraulic Oil (Petroleum base) | G | G | G | G | G | L | P | G | G | L | G |
| Hydrochloric Acid | P | L | P | L | P | L | P | P | P | G | G |
| Hydrofluoric Acid | P | P | P | L | P | L | P | P | P | G | G |
| Hydrogen, Gaseous (2) (4) (5) | G | G | G | G | G | G | G | G | # | # | |
| Hydrolube (Hydraulic fluid/water glycol base) | G | G | L | G | G | G | G | L | G | - | G |
| IRUS 902 (Hydraulic fluid/water-oil emulsion) | G | G | G | G | G | L | P | G | G | - | G |
| Isocyanates (2) | L | L | L | P | - | L | P | L | L | - | G |
| IsoOctane (2) | G | G | G | L | G | L | P | L | G | G | G |
| Isopropyl Alcohol | G | G | L | L | G | G | L | L | G | G | G |
| Kerosene (2) | G | G | L | L | G | L | P | P | G | G | G |
| Ketones | L | G | P | P | G | G | P | P | L | G | G |
| Lacquer Solvents | L | G | P | P | 3 | L | 3 | P | L | L | G |
| Lactic Acid | P | G | P | G | G | G | G | P | P | G | G |
| Lime (Calcium oxide) | G | G | G | G | - | G | G | G | G | G | G |
| Lindol (Hydraulic fluid/phosphate esters) | L | G | P | - | - | - | - | P | L | - | G |
| Linseed Oil | G | G | G | L | G | L | P | G | G | G | G |
| LP - Gas | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Lubricating Oils (Diester base) | L | G | P | - | G | - | - | P | L | - | G |
| Lubricating Oils (Petroleum base) | G | G | G | G | G | L | P | G | G | G | G |
| Malathion (Insecticide) | L | G | P | - | - | - | - | P | L | - | G |
| Magnesium Hydroxide | L | G | L | G | - | G | G | L | L | G | G |
| Magnesium Salts | - | G | G | G | - | G | - | G | - | - | G |
| Mercury | G | G | G | G | G | G | G | G | G | G | G |
| Meropa Oil (Sulphur base) | G | G | - | - | - | - | - | - | - | - | G |
| Methane | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Methanol | G | G | P | P | G | L | P | P | G | - | G |
| Methoxychlor (Insecticide) | L | G | P | - | - | - | - | P | L | - | G |

(Cont.)



For detailed ordering information, please consult price list or contact Parflex® Division.

Media to Hose Material Compatibility Guide (cont.)

| Media | H | N | U/HF UFR | PV | NC | O | OC | PFX | HFR | FEP | TFE |
|------------------------------------------------|---|---|-------------|----|----|---|----|-----|-----|-----|-----|
| Methyl Alcohol (6) | G | G | P | P | G | L | P | P | G | G | G |
| Methylene Chloride | P | L | P | L | P | L | P | P | P | G | G |
| Methyl Ethyl Ketone (MEK) | L | G | P | P | G | G | L | P | L | G | G |
| Methyl Ethyl Ketone Peroxide (MEKP) | - | L | P | - | - | - | - | P | - | - | G |
| Methyl Isobutyl Ketone (MIBK) | L | G | P | P | G | L | P | P | L | G | G |
| Milk (6) | G | G | G | G | - | G | G | G | G | G | G |
| Mineral Oil | G | G | G | G | G | L | P | G | G | G | G |
| Mineral Spirits | P | - | L | P | - | - | - | L | P | - | G |
| Motor Oils | G | G | G | G | G | - | - | G | G | G | G |
| Naphtha | L | G | P | P | G | P | P | P | L | G | G |
| Natural Gas (4) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Nitric Acid | P | P | P | L | P | P | P | P | P | L | G |
| Nitrobenzene | P | G | P | P | G | P | P | P | P | G | G |
| Nitrogen, Gaseous (4) (5) | G | G | G | G | G | G | G | G | G | G | G |
| Nitrous Oxide | - | L | - | G | - | L | - | G | - | # | # |
| Oil (SAE) | G | G | G | G | G | L | L | G | G | - | G |
| Oil of Turpentine | G | G | P | G | G | P | P | P | G | - | G |
| Oleic Acid | G | G | G | L | G | L | L | G | G | G | G |
| OS 45 Type 3 Hydraulic Fluid (Silicate esters) | L | G | L | P | - | P | P | L | L | - | - |
| Oxygen, Gaseous (4) (5) (6) | G | G | G | G | G | G | G | G | G | G | G |
| Ozone | L | P | L | G | P | L | G | P | L | G | G |
| Paint Solvents (Oil base) | L | G | L | P | - | P | P | L | L | - | G |
| Paint (Oil Base) (7) | G | G | G | P | - | L | P | G | G | - | G |
| Pentane (2) | G | G | L | L | - | P | P | L | G | G | G |
| Perchloric Acid | P | P | P | L | P | P | P | P | P | L | G |
| Perchloroethylene | P | P | P | L | P | P | P | P | P | - | G |
| Petroleum Ether | - | 2 | 2 | P | 2 | P | P | 2 | - | 2 | 2 |
| Petroleum Oils | G | G | G | G | G | L | P | G | G | - | G |
| Phenols | P | P | P | L | P | P | P | P | P | - | G |
| Phosphate Esters (above 135°F) | P | G | P | P | - | P | P | P | L | - | G |
| Phosphate Esters (to 135°F) | G | G | P | P | G | P | P | P | G | - | G |
| Polyol Esters | L | G | P | P | - | - | - | P | L | - | G |
| Potassium Hydroxide, 50% | P | P | P | L | - | L | L | P | P | G | G |
| Propane (4) (5) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Propylene Glycol | - | - | G | G | - | G | L | - | - | G | G |
| Pydraul F-9, 150, 160 (to 135°F) | G | G | P | P | G | P | P | P | G | - | G |
| Pydraul 312C, 625 (to 135°F) | P | G | P | P | G | P | P | P | G | - | G |
| Quintolubric 822 Fluid | - | G | G | - | - | - | - | - | - | - | G |
| Salt Water | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | G | G |
| Sevin (Insecticides in water) | G | G | G | - | - | - | - | G | G | - | G |
| Silicone Greases | G | G | G | G | G | - | - | G | G | - | G |
| Silicone Oils | G | G | G | G | G | - | - | G | G | - | G |
| Skydrol 500 & 7000 | L | G | P | P | G | P | P | P | L | G | G |
| Soap Solutions | G | G | G | G | G | G | G | G | G | G | G |

(Cont.)

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-53

Media to Hose Material Compatibility Guide (cont.)

| Media | H | N | U/HF UFR | PV | NC | O | OC | PFX | HFR | FEP | TFE |
|--------------------------------------------|---|---|-------------|----|----|---|----|-----|-----|-----|-----|
| Soda Water | G | G | G | G | G | 3 | 3 | G | G | - | G |
| Sodium Borate | G | G | G | G | G | G | G | G | G | G | G |
| Sodium Carbonate | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Sodium Chloride Solutions | G | G | G | G | 3 | G | - | G | G | G | G |
| Sodium Hydroxide, 50% | L | P | P | L | P | L | L | P | L | G | G |
| Sodium Hypochlorite | L | P | P | L | - | 3 | 3 | P | L | G | G |
| Steam | P | P | P | P | P | P | P | P | P | G | G |
| Stoddard Solvent | P | G | P | L | G | P | P | P | P | G | G |
| Straight Synthetic Oils (Phosphate esters) | L | G | P | P | G | - | - | P | L | - | G |
| Sulfur | G | G | G | G | - | L | G | G | G | G | G |
| Sulfur Dioxide | P | L | L | L | - | P | - | L | P | G | G |
| Sulfur Hexafluoride Gas (4) (5) | G | G | G | G | - | G | - | G | G | - | G |
| Sulphuric Acid | P | P | P | 3 | P | P | P | P | P | - | G |
| Toluene | L | G | L | P | G | P | P | P | L | G | G |
| Toloul | L | G | L | P | G | P | P | P | L | - | G |
| Transmission Fluid | G | G | G | P | G | - | - | G | G | - | G |
| Trichloroethylene | P | L | P | L | G | P | P | P | P | G | G |
| Trisodium Phosphate Solutions | L | G | P | G | G | G | G | P | L | G | G |
| Turpentine | G | G | L | L | G | P | P | P | G | G | G |
| Ucon (Hydraulic fluid-water glycol base) | G | G | L | G | G | - | - | L | G | - | G |
| Varnish | G | G | G | P | G | G | L | G | G | - | G |
| Vinegar (6) | L | G | L | G | G | G | G | L | L | G | G |
| Water (to 135°F) (6) | G | G | G | G | G | G | G | L | G | G | G |
| Water (above 135°F) (6) | P | G | P | L | - | P | P | P | P | L | G |
| Water Glycols (to 135°F) | L | G | L | G | G | L | L | L | G | - | G |
| Water Glycols (above 135°F) | P | G | P | L | - | P | P | P | P | - | G |
| Water in oil Emulsions (to 135°F) | G | G | L | G | G | - | - | L | G | - | G |
| Water in oil Emulsions (above 135°F) | P | G | P | L | - | - | - | P | P | - | G |
| Whiskey, Wines (6) | G | G | L | G | G | G | G | G | G | G | G |
| Wood Oils | G | G | L | G | G | - | - | G | G | - | G |
| Xylene | L | G | P | P | G | P | P | P | L | G | G |
| Zinc Chloride | G | G | G | G | P | G | G | G | G | G | G |

Notes:

1. The Fluid Compatibility Guides are simplified rating tabulations based on immersion tests at 75°F. Higher temperatures tend to reduce ratings. Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin Co., no performance guarantee is expressed or implied. Ratings do not imply compliance with specialized codes such as FDA, NSF, AGA or UL and do not cover possible fluid discoloration, taste or odor effects. For conveying foodstuffs, use FDA sanctioned materials and for potable water, use NSF listed materials. For chemicals not listed, or for advice on particular applications, please consult Product Engineering, Parflex Div., Ravenna, Ohio.

2. Hose applications for these fluids must take into account legal and insurance regulations. This does not imply AGA or UL compliance.

3. Satisfactory at some concentrations and temperatures, unsatisfactory in others.

4. For high pressure gases, the cover should be pinpricked and the pressure must not be released quickly. Chain or restrain the hose to prevent personal injury in the event of damage or failure.

5. Chemical compatibility does not imply low permeation rates. Consult the Parker factory for a suggestion for your specific requirement.

6. Does not imply NSF or FDA compliance.

7. Chemical compatibility does not imply acceptability for use in airless paint spray applications. These applications require a special conductive hose.

8. Fluoropolymers are chemically compatible with Anhydrous Ammonia. However, extreme caution must be used in dealing with Anhydrous Ammonia since it can cause severe injuries such as blindness and/or chemical burns.

Media to Plastic Tubing Material Compatibility Guide

| Media | PE | HDPE | PP | N | NR | PV | U | FRPE | FEP | PFA | TFE |
|-----------------------|----|------|----|---|----|----|---|------|-----|-----|-----|
| Acetone | P | L | G | G | G | P | P | L | G | G | G |
| Acetyl Bromide | L | L | L | P | P | P | - | - | - | - | - |
| Acetyl Chloride | L | L | L | P | P | P | - | - | G | G | G |
| Air | G | G | G | G | G | G | G | G | G | G | G |
| Alcohols | G | G | G | G | G | L | L | G | G | G | G |
| Aluminum Salts | G | G | G | G | G | G | G | G | - | - | - |
| Ammonia | G | G | G | G | G | G | G | L | - | - | - |
| Amyl Acetate | G | G | G | G | G | P | L | - | G | G | G |
| Aniline | L | G | L | P | P | P | P | - | G | G | G |
| Animal Oils (6) | P | L | L | G | G | G | G | - | - | - | G |
| Arsenic Salts | G | G | G | G | G | G | G | G | - | - | - |
| Aromatic Hydrocarbons | P | L | L | G | G | P | L | P | - | - | G |
| Barium Salts | G | G | G | G | G | G | G | G | - | - | - |
| Benzaldehyde | P | L | L | L | L | P | L | P | G | G | G |
| Benzene | P | L | L | G | G | P | L | P | G | G | G |
| Benzyl Alcohol | P | G | L | L | L | G | L | P | G | G | G |
| Bleaching Liquors | G | L | G | L | L | L | L | - | - | - | - |
| Boric Acid Solutions | G | G | G | G | G | G | G | G | G | G | G |
| Bromine | L | L | P | P | P | F | P | - | G | L | G |
| Butane (2) | L | G | G | G | G | L | P | - | # | # | # |
| Butanol | G | G | G | G | G | G | G | G | - | - | - |
| Butyl Acetate | G | G | L | G | G | P | L | G | G | G | G |
| Calcium Hypochlorite | L | L | P | P | L | L | P | L | G | G | G |
| Calcium Salts | G | G | G | G | G | G | G | G | - | - | - |
| Carbon Dioxide | G | G | G | G | G | G | G | G | # | # | # |
| Carbon Disulfide | L | L | L | L | L | P | L | - | # | # | # |
| Carbon Tetrachloride | P | P | L | L | L | L | P | P | G | G | G |
| Caustic Potash | G | G | G | G | G | L | G | - | G | G | G |
| Caustic Soda | G | G | G | G | G | L | G | - | G | L | G |
| Chloracetic Acid | L | G | L | L | L | P | P | - | G | L | G |
| Chlorine (Dry) | L | L | L | P | P | G | P | - | # | # | # |
| Chlorine (Wet) | L | L | L | P | P | G | L | - | G | G | G |
| Chlorobenzene | P | L | L | L | L | P | L | P | G | G | G |
| Chloroform | P | L | P | P | P | P | P | P | G | G | G |
| Chromic Acid | L | L | L | P | P | G | P | - | L | G | G |
| Copper Salts | G | G | G | G | G | G | G | G | - | - | - |
| Cresol | P | L | L | P | P | L | P | P | G | G | G |
| Cyclohexanone | L | L | L | L | L | P | P | - | G | G | G |
| Ethers | L | L | P | G | G | L | P | - | G | G | G |
| Ethyl Acetate | G | G | G | G | G | P | L | - | G | G | G |
| Ethyl Alcohol | G | G | G | L | L | L | G | G | - | - | - |
| Ethylamine | L | G | L | L | L | P | L | - | - | - | - |
| Ethyl Bromide | P | L | L | L | L | P | - | P | - | - | - |
| Ethyl Chloride | P | L | P | L | L | P | - | P | G | G | G |
| Fatty Acids | L | L | L | G | G | L | L | P | G | G | G |

(Cont.)

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-55

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Media to Plastic Tubing Material Compatibility Guide (cont.)

| Media | PE | HDPE | PP | N | NR | PV | U | FRPE | FEP | PFA | TFE |
|---------------------------------|----|------|----|---|----|----|---|------|-----|-----|-----|
| Ferric Salts | G | G | G | G | G | G | G | - | - | - | - |
| Formaldehyde | G | G | G | L | L | L | P | - | G | G | G |
| Formic Acid | G | G | G | P | P | G | P | G | G | G | G |
| Freon | L | L | L | G | G | P | L | - | # | # | # |
| Gasoline (2) | P | G | L | G | G | P | L | P | G | G | G |
| Glucose | G | G | G | G | G | G | G | G | G | G | G |
| Glycerin | G | G | G | G | G | G | L | G | G | G | G |
| Hydriodic Acid | L | G | G | P | P | G | - | - | - | - | - |
| Hydrochloric Acid. (Conc.) | L | G | G | L | L | L | P | - | G | L | G |
| Hydrochloric Acid. (Med. Conc.) | L | G | G | L | L | L | P | - | G | L | G |
| Hydrofluoric Acid | L | L | G | P | P | L | P | - | G | - | G |
| Hydrogen Peroxide (Conc.) | L | G | L | L | L | L | G | - | - | - | - |
| Hydrogen Peroxide (Dil.) | L | G | L | G | G | G | G | - | - | - | - |
| Hydrogen Sulfide | G | G | G | G | G | G | P | - | G | G | G |
| Iodine | L | G | G | G | G | L | L | - | G | G | G |
| Kerosene (2) | L | L | L | G | G | L | L | - | G | G | G |
| Ketones | G | G | G | G | G | P | P | - | G | G | G |
| Lacquer Solvents | L | L | L | G | G | P | - | - | L | G | G |
| Lactic Acid | G | G | G | G | G | G | G | - | G | G | G |
| Lead Acetate | G | G | G | G | G | G | G | - | G | G | G |
| Linseed Oil | L | G | G | G | G | L | G | - | G | G | G |
| Magnesium Salts | G | G | G | G | G | G | G | - | - | - | G |
| Naphtha | L | L | L | G | G | P | L | G | G | G | G |
| Natural Gas | L | L | L | G | G | G | G | - | 2 | 2 | 2 |
| Nickel Salts | G | G | G | G | G | G | G | - | - | - | - |
| Nitric Acid (Conc.) | P | L | P | P | P | L | P | G | L | L | G |
| Nitric Acid (Dil.) | P | G | L | L | L | G | P | P | L | L | G |
| Nitrobenzene | P | L | G | L | L | P | P | P | G | G | G |
| Nitrogen Oxides | L | L | G | L | L | G | - | - | - | - | - |
| Nitrous Acid | L | L | G | L | L | G | L | - | G | G | G |
| Oils (Animal and Mineral) | L | L | L | G | G | L | G | - | G | G | G |
| Oils (Vegetable) | L | L | L | G | G | L | G | - | G | G | G |
| Oxygen (5) (6) | G | G | G | G | G | G | G | G | G | G | G |
| Perchloric Acid | P | G | L | P | P | L | P | P | L | G | G |
| Phenols | P | G | G | P | P | L | P | P | - | - | G |
| Potassium Salts | G | G | G | G | G | G | G | G | - | - | - |
| Pyridine | L | L | L | L | L | P | P | - | G | G | G |
| Silver Nitrate | G | G | G | G | G | G | G | G | G | G | G |
| Soap Solutions | G | G | G | G | G | G | G | G | G | G | G |
| Sodium Salts | G | G | G | G | G | G | G | G | - | - | - |
| Stearic Acid | L | L | L | G | G | P | L | - | G | G | G |
| Sulfur Chloride | L | L | P | L | L | L | - | - | G | G | G |
| Sulfuric Acid (Conc.) | P | G | G | P | P | L | P | P | - | - | - |
| Sulfuric Acid (Dil.) | P | G | G | L | L | G | L | P | - | - | - |
| Sulfurous Acid | P | G | L | L | L | G | L | P | G | G | G |

(Cont.)



For detailed ordering information, please consult price list or contact Parflex® Division.

Media to Plastic Tubing Material Compatibility Guide (cont.)

| Media | PE | HDPE | PP | N | NR | PV | U | FRPE | FEP | PFA | TFE |
|----------------------|----|------|----|---|----|----|---|------|-----|-----|-----|
| Tannic Acid | G | G | G | G | G | G | P | - | G | G | G |
| Tanning Extracts | G | G | G | G | G | G | P | - | - | - | - |
| Titanium Salts | G | G | G | G | G | G | G | G | - | - | - |
| Toluene | P | L | P | G | G | P | L | P | G | G | G |
| Trichloroacetic Acid | L | L | L | P | P | P | P | - | - | - | - |
| Trichloroethylene | P | L | P | L | L | P | P | P | G | G | G |
| Turpentine | P | P | L | G | G | L | L | - | G | G | G |
| Urea | G | G | G | G | G | G | G | - | G | L | G |
| Uric Acid | G | G | G | G | G | G | G | - | G | G | G |
| Water (6) | G | G | G | G | G | G | G | G | G | G | G |
| Xylene | P | L | P | G | G | P | P | P | G | G | G |
| Zinc Chloride | G | G | G | G | G | G | G | - | G | L | G |

Notes:

- The Fluid Compatibility Guides are simplified rating tabulations based on immersion tests at 75°F. Higher temperatures tend to reduce ratings. Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin Co., no performance guarantee is expressed or implied. Ratings do not imply compliance with specialized codes such as FDA, NSF, AGA or UL and do not cover possible fluid discoloration, taste or odor effects. For conveying foodstuffs use FDA sanctioned materials, and for potable water use NSF listed materials. For chemicals not listed, or for advice on particular applications, please consult Product Engineering, Parflex Div., Ravenna, Ohio.
- Hose applications for these fluids must take into account legal and insurance regulations. This does not imply AGA or UL compliance.
- Satisfactory at some concentrations and temperatures, unsatisfactory in others.
- For high pressure gases, the cover should be pinpricked and the pressure must not be released quickly. Chain or restrain the hose to prevent personal injury in the event of damage or failure.
- Chemical compatibility does not imply low permeation rates. Consult the Parker factory for a suggestion for your specific requirement.
- Does not imply NSF or FDA compliance.
- Chemical compatibility does not imply acceptability for use in airless paint spray applications. These applications require a special conductive hose.
- Fluoropolymers are chemically compatible with Anhydrous Ammonia. However, extreme caution must be used in dealing with Anhydrous Ammonia since it can cause severe injuries such as blindness and/or chemical burns.

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G-57

Hose
A

Tubing
B

Coiled Air Hose
& Fittings
C

Transportation
D

Fittings
E

Tooling, Equipment
& Accessories
F

General Technical
G

Metric Conversion Chart

| English to Metric | | | |
|--------------------------|------------------------------------------------------------|-----------------------------------------------------|----------------------------|
| | To Convert From | To | Multiply By |
| Area | Sq. in. (in ²) | Sq. mm (mm ²) | 645.16 |
| | Sq. in. (in ²) | Sq. cm (cm ²) | 6.4516 |
| | Sq. ft. (ft ²) | Sq. meters (m ²) | 0.0929 |
| Density | Pounds/Cubic foot (lb./ft ³) | Kilograms/Cubic meter (kg/m ³) | 16.02 |
| Energy | British thermal units (Btu) (1 J=Ws=0.2388 cal) | Joules (J) | 1055 |
| Force | Pounds – force (lbf) (1N=0.102 kgf) | Newtons (N) | 4.448 |
| Length | Inches (in) | Milimeters (mm) | 25.4 |
| | Feet (ft) | Meters (m) | 0.3048 |
| | Miles (mi) | Kilometers (km) | 1.609 |
| Mass (Weight) | Ounces (oz.) | Grams (g) | 28.35 |
| | Pounds – mass (lb) | Kilograms (kg) | 0.4536 |
| | Short tons (2000 lb) (tn) | Metric tons (100 kg) (t) | 0.9072 |
| Power | Horsepower (550 ft lb/s) (hp) | Kilowatts (kW) | 0.7457 |
| Pressure | Pounds/square inch (PSI) | Kilograms (f)/square cm (kg(f)/cm ²) | 0.7457 |
| | | Kilopascals (kPa) | 0.0703 |
| | | Bars (100 kPa) | 6.8948 |
| Stress | Pounds/square inch (PSI) (1N/mm ² =1MPa) | megapascals (MPa) | 0.006895 |
| Temperature | Degrees Fahrenheit (°F) | Degrees Celsius (°C) | 5/9 (after subtracting 32) |
| Torque or Bending Moment | Pounds-force-foot (lb-ft) | Newtons-meter (Nm) | 1.3567 |
| | Pounds-force-inch (lb-in) | | 0.113 |
| Velocity | Feet/second (ft/s) | Meters/second (m/s) | 0.3048 |
| Viscosity | Dynamic (centipoise) | Pascal-second (Pas) | .001 |
| | Denematic – foot ² /sec (ft ² /s) | Meter ² /sec (m ² /s) | 0.0929 |
| Volume | Cubic inch (in ³) | Cubic centimeter (cm ³) (milliliter) | 16.3871 |
| | Quarts (qt) | Liters (1000 cm ³) | 0.9464 |
| | Gallons (gal) | Liters | 3.7854 |

| Metric to English | | |
|-----------------------------------------------------|------------------------------------------------------------|-------------------|
| To Convert From | To | Multiply By |
| Sq. mm (mm ²) | Sq. in. (in ²) | 0.00155 |
| Kilograms/Cubic meter (kg/m ³) | Pounds/Cubic foot (lb./ft ³) | 0.0624 |
| Joules (J) | British Thermal Units (Btu) | 0.000947 |
| Newtons (N) | Pounds - force (lbf) | 0.2248 |
| Milimeters (mm) | Inches (in) | 0.03937 |
| Meters (m) | Feet (ft) | 3.281 |
| Kilometers (km) | Miles (mi) | 0.621 |
| Grams (g) | Ounces (oz.) | 0.035 |
| Kilograms (kg) | Pounds - mass (lb) | 2.205 |
| Metric tons (100 kg) (t) | Short tons (2000 lb) (tn) | 1.102 |
| Kilowatts (kW) | Horsepower (550 ft lb/s) (hp) | 1.341 |
| Kilograms (f)/square cm (kg(f)/cm ²) | Pounds/square inch (PSI) | 14.22 |
| | | 0.145 |
| | | 14.503 |
| megapascals (MPa) | Pounds/square inch (PSI) (1N/mm ² =1MPa) | 145.039 |
| Degrees Celsius (°C) | Degrees Fahrenheit (°F) | 9/5 (then add 32) |
| Newtons-meter (Nm) | Pounds-force-foot (lb-ft) | 0.737 |
| | Pounds-force-inch (lb-in) | 8.85 |
| Meters/second (m/s) | Feet/second (ft/s) | 3.2808 |
| Pascal-second (Pas) | Dynamic (centipoise) | 1000 |
| Meter ² /sec (m ² /s) | Denematic - foot ² /sec (ft ² /s) | 10.7643 |
| Cubic centimeter (cm ³) (milliliter) | Cubic inch (in ³) | 0.061 |
| Liters (1000 cm ³) | Quarts (qt) | 1.057 |
| Liters | Gallons (gal) | 0.2642 |

Government & Agency Specifications

| Agency and Specifications | Approved Parflex Products |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flame Resistance: | |
| MSHA | 83FR, D6, HFS, HFS2, HTB, M8, 560, 563, 593, 590 (except -3), 510A (except -4, -5, -6), 510C (except -4), 515H, 520N, 540N, 56DH, 573X-3, 575X, 580N, HLB, HJK |
| UL94V-2 | PEFR |
| UL94HB | NN, NR, NBR (Wall Thickness Above 0.033"), 83FR |
| SAE J1942 | HFS, HFS2, HTB |
| Dry Food Contact: | |
| FDA, CFR21 Part 177 | E, PP, PV, 540P, 919, 919J, 919U, 929, 939, S30, S40, STW, SBFW, SCW, PCW, SCWV, PCWV, SCWV, PCWV-FS, SCWV-FS, RCTW |
| Natural Gas Service: | |
| For Vehicles and Dispensing Systems ANSI IAS NGV4.2 - CSA 12.52 | 5CNG |
| European Safety Standard (TUV) Kraftfahrt-Bundesamt ECE R110 | 5CNG-3, 5CNG-8 (From Parker Polyflex Europe Only) |
| Potable Water, Liquid Foods: | |
| NSF Standard 51* | 540P Hose; E, PP, NT Series Tubing |
| NSF Standard 61* | E Series Tubing |
| Hydraulic Service: | |
| SAE 100R1 | HFS, HFS2, 560 |
| SAE 100R2 | 590, 593, XDH |
| SAE 100R7 | 540N, 548N, 510C, 518C, 55LT, 510A, 540P |
| SAE 100R8 | 520N, 528N, 580N, 588N |
| SAE 100R12 | M8 |
| SAE 100R14 | 919, 919J, 919U, 929 |
| SAE 100R14B | 919B, 929B, 929BJ |
| SAE 100R16 | HFS2, 590, XDH |
| SAE 100R17 | D6, H6, R6, 563, XDH |
| SAE 100R18 | 53DM, 538DM |
| SAE 100R19 | XDH |
| WASTEC WRP05-1996 (check revision) | |
| Waste Equipment Technology Association | S4, S5, S6, S9 |
| Transportation Standards: | |
| SAE J844, FMVSS106 (49CFR571.106) | 1120A, 1120B, BRAKCOIL®, Dollycoil™, Duo-Coil™, SliderCoil™ |
| Electrical, Non-Conductivity: | |
| SAE J517 | 518C, 548N, 528N, 588N, 568DH, 538DM |
| DNV (with approved fittings only) | |
| Det Norske (Norwegian) Veritas Marine Steel Ships, Mobile Offshore and Fixed Offshore Drilling Units | 520N, 580N, 588N, H580N, 518C, 540N, 573X, 575X, 590, 593, 560 |
| Breathing Air Applications: | |
| CGA (Compressed Gas Association)- G-7.1-1997 Grade E Breathing Air | 526BA, 527BA |
| NFPA 1901 | 526BA, 527BA |

*Indicates that products shown have been tested and certified by NSF International to the requirements of NSF Standards 51 and 61. NSF does not express or imply an approval on any product.

For detailed ordering information, please consult price list or contact Parflex® Division.

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G-59

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

Parker Safety Guide

For selecting and using Hose, Tubing, Fittings, and Related Accessories



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

Publication No. 4400-B.1

Revised: August 2007

WARNING: Failure or improper selection or improper use of hose, tubing, assemblies, fittings, quick action couplings 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 power lines.
- 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. SAE J1273 (www.sae.org) and ISO 17165-2 (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, or 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, for telephone numbers of the appropriate technical service department.

2.0 HOSE AND FITTINGS 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). This Hose is labeled "Electrically Conductive for CNG



For detailed ordering information, please consult price list or contact Parflex® Division.

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.

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 FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1 Component Inspection: Prior to assembly, a careful examination of the Hose and Fittings must be performed. All components must be checked for correct style, size, catalog number, and length. The Hose must be examined for cleanliness, obstructions, blisters, cover looseness, kinks, cracks, cuts or any other visible defects. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion or other imperfections. Do NOT use any component that displays any signs of nonconformance.

3.2 Hose and Fitting Assembly: Do not assemble a Parker Fitting on a Parker Hose that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Do not assemble a Parker Fitting on another manufacturer's Hose or a Parker Hose on another manufacturer's Fitting unless (i) the engineering manager or chief engineer of the appropriate Parker division approves the Assembly in writing or that combination is expressly approved in the appropriate Parker literature for the specific Parker product, and (ii) the user verifies the Assembly and the application through analysis and testing. For Parker Hose that does not specify a Parker Fitting, the user is solely responsible for the selection of the proper Fitting and Hose Assembly procedures. See instruction 1.4.

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.

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) 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.

4.6 Hose Inspection and Failure: Hydraulic power is accomplished by utilizing high pressure fluids to transfer energy and do work. Hoses, Fittings and Hose Assemblies all contribute to this by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the Hoses transporting the fluids. From time to time, Hose Assemblies will fail if they are not replaced at proper time intervals. Usually these failures are the result of some form of misapplication, abuse, wear or failure to perform proper maintenance. When Hoses fail, generally the high pressure fluids inside escape in a stream which may or may not be visible to the user. Under no circumstances should the user attempt to locate the leak by “feeling” with their hands or any other part of their body. High pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a Hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the Hose Assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the Hose Assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a Hose Assembly even when pumps or equipment are not operating. Tiny holes in the Hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the Hose Assembly may be examined safely. Once the pressure has been reduced to zero, the Hose Assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a Hose Assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for Hose Assembly replacement information.

Never touch or examine a failed Hose Assembly unless it is obvious that the Hose no longer contains fluid under pressure. The high pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

4.7 Elastomeric seals: Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.

4.8 Refrigerant gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.

4.9 Compressed natural gas (CNG): Parker CNG Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per 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.

ENERPAC Warranty Policy

For those ENERPAC items sold as part of the Parker Parflex Division product offering, the following warranty applies.

ENERPAC products are warranted to be free of defects in materials and workmanship under normal use for as long as they are owned by the original purchaser, subject to the exclusions and limitations described below. This warranty does not cover

ordinary wear and tear, overloading, alterations, (including repairs or attempted repairs by parties other than ENERPAC or its authorized service representatives), improper fluid, use in a manner for which they are not intended or use which is contrary to instructions for the products.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy of repair, replacement or refund is customer's exclusive remedy in the event of breach of this warranty.

SELLER SHALL NOT BE SUBJECT TO AND DISCLAIMS:

THIS WARRANTY IS LIMITED TO NEW PRODUCTS SOLD THROUGH ENERPAC AUTHORIZED DISTRIBUTORS, ORIGINAL EQUIPMENT MANUFACTURERS OR OTHER DESIGNATED CHANNELS OF DISTRIBUTION. NO AGENT, EMPLOYEE, OR OTHER REPRESENTATIVE OF ENERPAC HAS THE AUTHORITY TO IN ANY WAY CHANGE OR AMEND THIS WARRANTY.

(a) ANY OTHER OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY,

Electronic products and components are warranted against defects in material and workmanship for a period of two years from the date of purchase.

(b) ANY OBLIGATIONS WHATSOEVER ARISING FROM TORT CLAIMS (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER THEORIES OR LAW WITH RESPECT TO PRODUCTS SOLD OR SERVICES RENDERED BY SELLER OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO, AND

The following items supplied with ENERPAC products are excluded from this warranty:

Components not manufactured by ENERPAC, including air motors, electric motors, gasoline engines, and diesel engines. Such items are warranted to the extent of the warranty provided by the manufacturers of such items.

(c) ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.

ENERPAC's liability in all cases is limited to, and shall not exceed, the purchase price paid.

If the customer believes a product is defective, the product must be delivered, or shipped freight prepaid, to the nearest ENERPAC Authorized Service Center. The customer should contact ENERPAC to locate and Authorized Service Center in the customer's area.

For the nearest authorized ENERPAC SERVICE CENTER, please call ENERPAC at 1-800-558-0530 or visit the ENERPAC web site at www.Enerpac.com.

Products that do not conform to this warranty will be returned by ground transportation, freight prepaid.



Offer of Sale

The items described in this document and other documents and descriptions provided by Parker Hannifin Corporation, its subsidiaries and its authorized distributors ("Seller") are hereby offered for sale at prices to be established by Seller. 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 item described in its document, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer. All goods or work described will be referred to as "Products".

1. **Terms and Conditions.** Seller's willingness to offer Products, or accept an order for Products, to or from Buyer is expressly conditioned on Buyer's assent to these Terms and Conditions and to the terms and conditions found on-line at www.parker.com/saleterms/. Seller objects to any contrary or additional term or condition of Buyer's order or any other document issued by Buyer.

2. **Price Adjustments; Payments.** Prices stated on the reverse side or preceding pages of this document are valid for 30 days. After 30 days, Seller may change prices to reflect any increase in its costs resulting from state, federal or local legislation, price increases from its suppliers, or any change in the rate, charge, or classification of any carrier. The prices stated on the reverse or preceding pages of this document do not include any sales, use, or other taxes unless so stated specifically. Unless otherwise specified by Seller, all prices are F.O.B. Seller's facility, and payment is due 30 days from the date of invoice. After 30 days, Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. **Delivery Dates; Title and Risk; Shipment.** All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon tender to the carrier at Seller's facility (i.e., when it's on the truck, it's yours). Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's changes in shipping, product specifications or in accordance with Section 13, herein.

4. **Warranty.** Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve months from the date of delivery to Buyer or 2,000 hours of normal use, whichever occurs first. This warranty is made only to Buyer and does not extend to anyone to whom Products are sold after purchased from Seller. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY:** THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

5. **Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon delivery. No claims for

shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 60 days after delivery or, in the case of an alleged breach of warranty, within 30 days after the date within the warranty period on which the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale (other than an action by Seller for any amount due to Seller from Buyer) must be commenced within thirteen months from the date of tender of delivery by Seller or, for a cause of action based upon an alleged breach of warranty, within thirteen months from the date within the warranty period on which the defect is or should have been discovered by Buyer.

6. **LIMITATION OF LIABILITY.** UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

7. **Contingencies.** Seller shall not be liable for any default or delay in performance if caused by circumstances beyond the reasonable control of Seller.

8. **User Responsibility.** The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

9. **Loss to 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 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.

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



G-65

A
Hose

B
Tubing

C
Coiled Air Hose
& Fittings

D
Transportation

E
Fittings

F
Tooling, Equipment
& Accessories

G
General Technical

10. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. 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 Products, 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.

11. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest. Seller shall have a security interest in, and lien upon, any property of Buyer in Seller's possession as security for the payment of any amounts owed to Seller by Buyer.

12. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

13. Cancellations and Changes. Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.

14. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

15. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of the agreement. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.

16. Waiver and Severability. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidity of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

17. Termination. This agreement may be terminated by Seller for any reason and at any time by giving Buyer thirty (30) days written notice of termination. In addition, Seller

may by written notice immediately terminate this agreement for the following: (a) Buyer commits a breach of any provision of this agreement (b) the appointment of a trustee, receiver or custodian for all or any part of Buyer's property (c) the filing of a petition for relief in bankruptcy of the other Party on its own behalf, or by a third party (d) an assignment for the benefit of creditors, or (e) the dissolution or liquidation of the Buyer.

18. Governing Law. This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement. Disputes between the parties shall not be settled by arbitration unless, after a dispute has arisen, both parties expressly agree in writing to arbitrate the dispute.

19. 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 Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("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 a Product sold pursuant to this Agreement infringes 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 a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product 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 Products 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 Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

20. Taxes. Unless otherwise indicated, 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 Products.

21. Equal Opportunity Clause. For the performance of government contracts and where dollar value of the Products exceed \$10,000, the equal employment opportunity clauses in Executive Order 11246, VEVRAA, and 41 C.F.R. §§ 60-1.4(a), 60-741.5(a), and 60-250.4, are hereby incorporated.

01/09

Part Number Index

| Part Number | Page | Part Number | Page | Part Number | Page |
|-----------------|-------------|-----------------|-------------|-------------|-------|
| 015301..... | F-14 | 10693N..... | E-67 | 13957..... | E-39 |
| 015302..... | F-10 | 10694..... | E-70 | 13958..... | E-22 |
| 015303..... | F-10 | 10695..... | E-70 | 13958H..... | E-43 |
| 015304..... | F-10 | 106CY..... | E-82 | 13991N..... | E-57 |
| 015305..... | F-10 | 106HY..... | E-91 | 13993N..... | E-68 |
| 015306..... | F-8, F-10 | 106LV..... | E-104 | 139CY..... | E-83 |
| 015307..... | F-8 | 106SF..... | E-85 | 139HY..... | E-97 |
| 015308..... | F-8, F-10 | 10755..... | E-18 | 13D55..... | E-35 |
| 015309..... | F-8 | 10758..... | E-18 | 13D58..... | E-35 |
| 015310..... | F-10 | 10791N..... | E-55 | 13DHY..... | E-100 |
| 015411..... | F-10 : F-11 | 107HY..... | E-92 | 13E55..... | E-15 |
| 015412..... | F-10 : F-11 | 10855..... | E-18 | 13E58..... | E-15 |
| 015413..... | F-10 : F-11 | 10858..... | E-18 | 14155..... | E-23 |
| 015414..... | F-10 : F-11 | 10891N..... | E-55 | 14158..... | E-23 |
| 015415..... | F-10 : F-11 | 108HY..... | E-92 | 14191N..... | E-57 |
| 025349..... | F-8, F-11 | 108MS..... | E-105 | 141HY..... | E-97 |
| 025399..... | F-11, F-14 | 10GHY..... | E-93 | 14K93N..... | E-68 |
| 045234..... | F-9 | 10LHY..... | E-93 | 15555..... | E-24 |
| 090..... | E-51 | 110-(PVDF)..... | B-82 : B-83 | 15558..... | E-24 |
| 101-(PTFE)..... | B-56 : B-57 | 111-(PVDF)..... | B-84 : B-85 | 16191N..... | E-58 |
| 10155..... | E-13 | 11155..... | E-19 | 16755..... | E-24 |
| 10157..... | E-38 | 11158..... | E-19 | 16758..... | E-24 |
| 10158..... | E-13 | 11192..... | E-65 | 16791N..... | E-58 |
| 10158H..... | E-42 | 111HY..... | E-94 | 16792..... | E-66 |
| 10191N..... | E-53 | 1120-..... | D-4 | 167HY..... | E-98 |
| 10193N..... | E-67 | 11255..... | E-19 | 16955..... | E-25 |
| 101CY..... | E-82 | 11258..... | E-19 | 16958..... | E-25 |
| 101HY..... | E-88 | 11355..... | E-20 | 16991N..... | E-59 |
| 101SF..... | E-85 | 11357..... | E-38 | 16992..... | E-66 |
| 101SQ..... | E-107 | 11358..... | E-20 | 169HY..... | E-98 |
| 10255..... | E-14 | 113CY..... | E-83 | 17791N..... | E-59 |
| 10258..... | E-14 | 113HY..... | E-94 | 177HY..... | E-98 |
| 102CY..... | E-82 | 11D55..... | E-34 | 17991N..... | E-59 |
| 102HY..... | E-89 | 11D58..... | E-34 | 179HY..... | E-99 |
| 103-(FEP)..... | B-70 : B-71 | 11L55..... | E-20 | 19255..... | E-35 |
| 10355..... | E-14 | 11L58..... | E-20 | 19258..... | E-35 |
| 10358..... | E-14 | 11LHY..... | E-95 | 19291N..... | E-64 |
| 1035A..... | A-50 | 12891N..... | E-55 | 193HY..... | E-99 |
| 1035HT..... | A-51 | 12892..... | E-65 | 1AL55..... | E-29 |
| 10391N..... | E-53 | 128HY..... | E-95 | 1AL58..... | E-29 |
| 103HY..... | E-89 | 129HY..... | E-96 | 1AL91N..... | E-60 |
| 104-(PFA)..... | B-78 : B-79 | 1320..... | D-5 | 1B155..... | E-36 |
| 10455..... | E-15 | 13491N..... | E-56 | 1B158..... | E-36 |
| 10458..... | E-15 | 134HY..... | E-96 | 1B255..... | E-36 |
| 10555..... | E-16 | 134MS..... | E-105 | 1B258..... | E-36 |
| 10558..... | E-16 | 13755..... | E-21 | 1B291N..... | E-64 |
| 105HY..... | E-90 | 13754..... | E-10 | 1C655..... | E-32 |
| 10654..... | E-9 | 13954..... | E-10 | 1C658..... | E-32 |
| 10655..... | E-17 | 13757..... | E-39 | 1C955..... | E-32 |
| 10657..... | E-38 | 13758..... | E-21 | 1C958..... | E-32 |
| 10658..... | E-17 | 13758H..... | E-42 | 1D055..... | E-33 |
| 10658H..... | E-42 | 13791N..... | E-56 | 1D058..... | E-33 |
| 10691N..... | E-54 | 13793N..... | E-68 | 1D0HY..... | E-99 |
| 10691NRD..... | E-54 | 137HY..... | E-96 | 1D255..... | E-33 |
| | | 13955..... | E-22 | 1D258..... | E-33 |

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd



Part Number Index (cont.)

| Part Number | Page | Part Number | Page | Part Number | Page |
|-------------|-------|------------------------|-------------|-----------------------|-------------|
| 1D955..... | E-34 | 1L955..... | E-23 | 510A..... | A-34 |
| 1D958..... | E-34 | 1L958..... | E-23 | 510C..... | A-35 |
| 1D9HY..... | E-100 | 1LMCY..... | E-84 | 515H..... | A-37 |
| 1FN91N..... | E-60 | 1MU55..... | E-30 | 518C..... | A-36 |
| 1FU55..... | E-30 | 1MU58..... | E-30 | 520N..... | A-38 |
| 1FU58..... | E-30 | 1P691N..... | E-60 | 526BA..... | A-39 |
| 1G155..... | E-31 | 1Q191N..... | E-63 | 528N..... | A-38, A-64 |
| 1G158..... | E-31 | 1TFMS..... | E-106 | 527BA..... | A-40 |
| 1G255..... | E-31 | 1TU55..... | E-28 | 538DM..... | A-41 |
| 1G258..... | E-31 | 1TU58..... | E-28 | 53DM..... | A-41 |
| 1GJHY..... | E-100 | 1TU91N..... | E-63 | 540N..... | A-42 |
| 1GKCY..... | E-83 | 1UT55..... | E-29 | 540P..... | A-43 |
| 1GU55..... | E-30 | 1UT58..... | E-29 | 548N..... | A-64 |
| 1GU58..... | E-30 | 1WU54..... | E-11 | 55LT..... | A-44 |
| 1HUSQ..... | E-107 | 1WW54..... | E-10 | 55AG..... | F-22, F-24 |
| 1J055..... | E-26 | 1WY54..... | E-11 | 55SG..... | F-22, F-24 |
| 1J058..... | E-26 | | | 55SSG..... | F-22 |
| 1J0HY..... | E-103 | 20090..... | E-51 | 5PSG..... | F-22 |
| 1J155..... | E-27 | 201-(Metric FTFE)..... | B-58 : B-59 | 56DH..... | A-45 |
| 1J158..... | E-27 | 20151..... | E-5 | 560..... | A-30 |
| 1J158H..... | E-44 | 20190..... | E-46 | 563..... | A-31 |
| 1J191N..... | E-61 | 201BA..... | E-79 | 568DH..... | A-45 |
| 1J1HY..... | E-101 | 201BU..... | E-80 | 573X..... | A-46 |
| 1J754..... | E-9 | 203-(Metric FEP)..... | B-72 : B-73 | 575X..... | A-47 |
| 1J755..... | E-27 | 20351..... | E-6 | 580661..... | F-18 |
| 1J757..... | E-39 | 204-(Metric PFA)..... | B-80 : B-81 | 580N..... | A-48 |
| 1J758..... | E-27 | 20651..... | E-6 | 588N..... | A-48 |
| 1J758H..... | E-44 | 20690..... | E-46 | 590..... | A-32 |
| 1J791N..... | E-61 | 206BA..... | E-79 | 593..... | A-33 |
| 1J793N..... | E-69 | 206BU..... | E-80 | 5CNG..... | A-53 |
| 1J7HY..... | E-101 | 20851..... | E-7 | 5CNG/CNGLT..... | F-21 |
| 1J954..... | E-9 | 20890..... | E-47 | | |
| 1J955..... | E-28 | 208MS..... | E-106 | 6 CTX-S..... | F-10 |
| 1J957..... | E-40 | 213BU..... | E-80 | 6-2 CTX-S..... | F-11 |
| 1J958..... | E-28 | 22890..... | E-47 | 6-6 CTX-S..... | F-10 : F-11 |
| 1J958H..... | E-44 | 23490..... | E-47 | 60 HAB..... | E-51 |
| 1J991N..... | E-62 | 23790..... | E-48 | 61 HAB..... | E-51 |
| 1J993N..... | E-69 | 23951..... | E-7 | 631075-PFD..... | F-18 |
| 1J9CY..... | E-84 | 23990..... | E-48 | 631076..... | F-18 |
| 1J9HY..... | E-102 | 24398..... | F-18 | 631140..... | F-18 |
| 1JC54..... | E-8 | 2613..... | F-23 | 68NTA..... | D-12 |
| 1JC55..... | E-26 | 2625..... | F-23 | 685RA..... | E-11 |
| 1JC57..... | E-40 | 26190..... | E-49 | | |
| 1JC58..... | E-26 | 26790..... | E-49 | 731512-Blue, Red..... | D-8 |
| 1JC58H..... | E-43 | 26990..... | E-50 | 731513-Blue, Red..... | D-8 |
| 1JC91N..... | E-62 | 2740..... | F-23 | 731516..... | D-8 |
| 1JC93N..... | E-69 | 27790..... | E-50 | 731522..... | D-8 |
| 1JCCY..... | E-84 | 2799..... | F-23 | 731611-Blue, Red..... | D-8 |
| 1JCHY..... | E-102 | 27990..... | E-50 | 731612-Blue, Red..... | D-8 |
| 1JS55..... | E-25 | 2TFMS..... | E-106 | 741526..... | D-8 |
| 1JS58..... | E-25 | | | 741590-Blue, Red..... | D-8 |
| 1JS58H..... | E-43 | 316-PFD..... | F-19 | 751597..... | D-8 |
| 1JBSF..... | E-86 | 332T-115V-PFD..... | F-18 | 751634..... | D-10 |
| 1JSHY..... | E-103 | 3PSG..... | F-22 | 751641..... | D-8 |
| 1JSSF..... | E-86 | | | 751655..... | D-8 |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Part Number Index (cont.)

| Part Number | Page | Part Number | Page | Part Number | Page |
|------------------------|-------------|--------------------------|-------------|-----------------------|-------------|
| 751656-Blk | D-8 | 955B | A-74 | M8..... | A-27 |
| 751657..... | D-11 | A0 | C-8 | MBS-S..... | E-74 |
| 751658-Blue, Red | D-11 | AS-Y | F-23 | MC | C-10 |
| 751659..... | D-11 | AHUF5 | C-17 | MCB | C-18 |
| 751660-Blue, Red | D-11 | AUFS | C-15 | ME | C-10 |
| 801048..... | D-9 | B9 | A-52 | MG | F-23 |
| 801595..... | D-9 | CL-S | E-73 | MIL-S | E-74 |
| 801632..... | D-9 | CNG | A-53 | ML..... | C-11 |
| 80C-061-PFD | F-12 | CNGG..... | F-21 | MLB..... | C-19 |
| 80C-ODR-PFD..... | F-20 | D6 | A-22 | MP-S..... | E-75 |
| 80C-R01-PFD | F-12, F-20 | E/EB | B-8 : B-10 | MSAN-S..... | E-78 |
| 80C-SDR | F-20 | E-S..... | E-73 | MSH | A-55 |
| 811537..... | D-12 | FBS-S..... | E-73 | MSXL..... | A-56 |
| 81C-R01-PFD | F-16 | FC..... | C-11 | N | B-16 : B-19 |
| 822011..... | F-10 : F-11 | FIL-S | E-74 | NB | B-16 : B-19 |
| 822012..... | F-10 : F-11 | FJX-S | E-76 | NBR..... | B-22 : B-23 |
| 822031..... | F-10 : F-11 | FL..... | C-11 | NN | B-16 : B-19 |
| 82C-061L-PFD | F-12 | FN | C-12 | NNR..... | B-22 : B-23 |
| 82C-OAP-PFD..... | F-15 | FORFS-S..... | E-76 | NR | B-22 : B-23 |
| 82C-OEP-PFD | F-15 | FP-S | E-75 | NTNA..... | B-24 : B-25 |
| 82C-OHP-PFD..... | F-14 | FR..... | C-12 | PAT | B-20 : B-21 |
| 82C-KKB-PFD | F-12 | FS..... | C-9 | PC300 | E-72 |
| 82C-R01-PFD | F-12, F-20 | FS-F | F-23 | PCW/PCB | A-80 |
| 83C-081-PFD | F-13 | H580N | A-48 | PCWV/PCBV | A-82 |
| 83C-ODR-PFD | F-20 | H6 | A-23 | PCWV-FS/PCBV-FS | A-84 |
| 83FR..... | A-49 | HBR | F-21 | PEFR..... | B-12 |
| 85C-061L-PFD | F-12 | HDPE | B-14 : B-15 | PF ANSI Flange | E-77 |
| 85C-OHP-PFD | F-14 | HFS | A-24 | PFT..... | D-6 |
| 85C-OEP-PFD | F-15 | HFS2 | A-25 | PLCF-S | E-76 |
| 85C-KKB-PFD | F-12 | HJK | A-29 | PP | B-26 : B-27 |
| 85C-R01-PFD | F-12, F-20 | HLB | A-54 | PPB | B-26 : B-27 |
| 881540-PFD | F-19 | HS1.3FEP | B-74 : B-75 | PSG | F-22 : F-23 |
| 88C-082-PFD | F-13 | HS1.6FEP | B-76 : B-77 | PTC | F-19 |
| 89C-061-PFD | F-13 | HS2TFL..... | B-63 | PTC-001-RB | F-19 |
| 8PC-030-PFD | F-16 | HS2TFL, AWG..... | B-67 | PTH | A-57 |
| 8PC-00P-PFD | F-16 | HS2TFL, Fractional..... | B-62 | PV (guard)..... | F21, F-23 |
| 8WC-00P-PFD | F-16 | HS2TFS, AWG | B-64 | PV (tubing)..... | B-39 : B-41 |
| 919..... | A-65 | HS2TFS, Fractional | B-62 | R6 | A-26 |
| 919B | A-65 | HS2TFT, AWG | B-66 | RC300 | E-72 |
| 919J..... | A-66 | HS2TFT, Fractional | B-62 | RCTW/RCTB..... | A-85 |
| 919U | A-67 | HS4TFI..... | B-68 | S30/S30B | A-75 |
| 929..... | A-68 | HTB | A-28 | S4 | A-58 |
| 929B | A-68 | HTC | F-19 | S40/S40B | A-76 |
| 929BJ..... | A-69 | HTFL..... | D-7 | S5 | A-59 |
| 939..... | A-70 | HU | B-34 : B-35 | S6 | A-60 |
| 939B | A-70 | HUFR..... | B-32 : B-33 | S9 | A-61 |
| 943B | A-71 | HUM | B-36 : B-37 | SAN-S..... | E-78 |
| 944B | A-72 | M8..... | A-27 | SB | C-20 |
| 94C-080-PFD | F-6 : F-7 | MBS-S..... | E-74 | SBF300 | E-72 |
| 94C-001-PFD | F-6 | MC | C-10 | SBFW/SBFB | A-78 |
| 94C-002-PFD | F-7 | MCB | C-18 | SC300 | E-72 |
| 94C-MKS..... | F-9 | ME | C-10 | | |
| 950B | A-73 | MG | F-23 | | |

For detailed ordering information, please consult price list or contact Parflex® Division.



Part Number Index (cont.)

| Part Number | Page | Part Number | Page | Part Number | Page |
|----------------------|-------------|-------------|------|-------------|------|
| SCW/SCB..... | A-79 | | | | |
| SCWV/SCBV..... | A-81 | | | | |
| SCWV-FS/SCBV-FS..... | A-83 | | | | |
| SFR-S..... | E-77 | | | | |
| SG..... | C-13, F-22 | | | | |
| SIL300..... | E-72 | | | | |
| SLH..... | A-62 | | | | |
| SQ-101-sw..... | F-17 | | | | |
| SQ Mender..... | F-17 | | | | |
| ST300..... | E-72 | | | | |
| ST301..... | E-72 | | | | |
| STW/STB..... | A-77 | | | | |
| TFB..... | B-60 : B-61 | | | | |
| TFH, AWG..... | B-52 | | | | |
| TFL, AWG..... | B-55 | | | | |
| TFL, Fractional..... | B-48 | | | | |
| TFS, AWG..... | B-53 | | | | |
| TFS, Fractional..... | B-48 | | | | |
| TFT, AWG..... | B-54 | | | | |
| TFT, Fractional..... | B-48 | | | | |
| TH11-1-PFD..... | F-19 | | | | |
| TS..... | C-13 | | | | |
| TUBE-S..... | E-77 | | | | |
| U..... | B-28 : 29 | | | | |
| UC..... | C-12 | | | | |
| UM..... | B-30 : B-31 | | | | |
| UFS..... | C-16 | | | | |
| VBL..... | F-17 | | | | |
| VBS..... | F-17 | | | | |
| XDH..... | A-63 | | | | |



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Key Word Index

| Keyword | Page | Keyword | Page | Keyword | Page |
|-----------------------------|-------------------------|-----------------------------------------------|--------------------------|---------------------------------------------------|------------------------------|
| 1.3/1 Heat Shrink | B-74 | eXtreme Duty | A-63 | Non-Conductive Hose | A-36, |
| 1.67/1 Heat Shrink | B-76 | Fast Response Hose..... | A-46, A-47 | A-38, A-41, A-45, A-48, A-49, A-51 | |
| 2 : 1 Heat Shrink..... | B-62 : B-67 | Fast-Stor Air Hose..... | C-8 : C-9, C-14 : C-19 | NoMar Fast-Stor Assy | C-14, C-17 |
| 4 : 1 Heat Shrink..... | B-68 | Fast-Stor | | NoMar Fast-Stor Coils..... | C-16 |
| 51 Series | E-5 | Fittings | C-10 : C-14, C-19 | NoMar Fast-Stor Fittings..... | C-18 : C-19 |
| 54 Series | E-8 | FEP Heat Shrink | B-74 : B-77 | Nylon Air Brake Tubing..... | D-4 |
| 55 Series | E-12 | FEP Tubing..... | B-70 : B-73 | Nylon Tubing | B-16 : B-25 |
| 57 Series..... | E-37 | Field Att. Fitting | E-2 | | |
| 58 Series | E-12 | Fifth Wheel Slider..... | D-12 | PAGE Fittings | E-71 : E-78 |
| 58H Series..... | E-41 | Firescreen..... | A-24, A-25 | PAGE-flex SBF | A-78 |
| 90 Series | E-45 | Fire Sleeve..... | F-23 | Parkrimp Dies | F-20 |
| 91N/91 Series..... | E-52 | Flange | E-60, E-68, E-77, E-78 | Parkrimp 1 | F-12 |
| 92 Series | E-65 | Flange Retainer | E-77 | Parkrimp 2..... | F-13 |
| 93N Series..... | E-67 | Flame Resistant | | Partek Sleeve..... | F-23 |
| 94 Series | E-70 | Tubing | B-12, B-42 : B-85 | PFA Tubing..... | B-78 : B-81 |
| 95 Series | E-70 | Flare-Seal Hose | A-83, A-84 | PHastkrimp..... | F-13 |
| Air Brake Tubing | D-4 : D-5 | Flex Tubing | B-82, B-83 | Polyethylene Tubing | B-8 : B-15 |
| Air Hose..... | C-4 : C-21 | Fluoropolymer Tubing..... | B-42 : B-85 | Polypropylene Tubing | B-26 : B-27 |
| A-Lok Fitting | E-29, E-60, E-76 : E-77 | | | Polyurethane Tubing..... | B-28 : B-37 |
| Abrasion King | A-26 | Gates Conversion Kit..... | F-16 | Power Cleaning Hose..... | A-50, A-51 |
| Adapters..... | E-11 | Guards..... | F-21 : F-25 | Predator | A-58 : A-62 |
| Anti-Kink Casing | F-23 | Harnesses..... | D-13 | PTFE Heat Shrink..... | B-62 : B-69 |
| Armor Guard | F-22, F-24 | Heat Shrinkable | | PTFE Hose | A-65 : A-85 |
| AWG Tubing | B-50 : B-55 | Tubing | B-62 : B-69, B-74 : B-77 | PTFE Tubing..... | B-48 : B-59 |
| | | Heavy Wall | | Pumps (Crimpers)..... | F-14 : F-15 |
| BA Series..... | E-79 | Hose | A-68, A-76, A-81, A-82 | Pure Air Tubing | B-20 |
| Bearing | B-60 | High Density Tubing | B-14 | PVDF Tubing | B-82 : B-85 |
| Bend Restrictor | F-21 | High Pressure Hose .A-26:A-29,A-32,A-38:A-40, | | | |
| Brakcoil | D-8 |A-45, A-47, A-48, A-53, A-63, A-71 : A74 | | Quantum Tubing | D-5 |
| Breathing Air Hose | A-39, A-40 | Highjack | A-29 | | |
| BU Series..... | E-80 | Hose Cutter..... | F-18 : F-19 | Rapid Assy Fitting | E-10 : E-11 |
| Bundles | D-13 | Hose Guard..... | F-21 : F-25 | Refrigerant Hose | A-34 |
| | | HY Series..... | E-87 | Replacement Parts (F.A. Fitting) | E-51 |
| Clear Vinyl Hose Guard..... | F-21, F-23 | Hybrid Hose | A-22, A-24 : A-25, | Replacement Parts (Minikrimp)..... | F-8 |
| Clear Vinyl Tubing | B-39 : B-41 |A-27 : A-29 | | Rubber Covered Hose | A-85 |
| Collars | E-72 | Hydraulic Press Kit..... | F-16 | | |
| Crimp Fitting | E-2 | | | SCR Hose..... | D-14 : D-15 |
| Crimpers..... | F-2 | I-Line Fitting | E-74 | Seal-Lok Fittings..... | E-8, E-9, E-25 : E-28, E-39, |
| Conversion Kits..... | F-16 | Instrument Grade Tubing | B-8 : B-11 | ..E-40, E-43, E-44, E-61, E-62, E-69, E-76, E-77, | |
| Convoluted Hose..... | A-70, A-79 : A-84 | Jackline Hose | A-29 |E-84, E-86, E-101 : E-103 | |
| Cut-off Tools | F-18 : F-19 | Karrykrimp..... | F-12 | Sewer Hose | A-58 : A-62 |
| CY Series | E-81 | Karrykrimp 2..... | F-12 | SF Series | E-85 |
| | | Karrykut..... | F-18 | Sleeve | F-23 |
| Die Racks | F-20 | Lateral Cleaning..... | A-58, A-59 | SliderCoil | D-11 |
| Dies..... | F-20 | LV Series..... | E-104 | Spaghetti Tubing | B-50 : B-55 |
| Diesel Fuel Tubing..... | D-6, D-7 | Marine Hose | A-55 : A-57 | Spring, External & Internal | F-23 |
| Duo-Coil | D-9 | Microweld Tubing | B-32 : B-33 | Spring Guard | F-21 : F-26 |
| DollyCoil | D-10 | Minikrimp | F-6, F-7 | SQ Series..... | E-107 |
| Duraflex..... | A-64 | Mounts | F-8 | Super-Flex Tubing | B-84 : B-85 |
| DuraGard | A-49 | MS Series | E-105 | Superbraid..... | C-20 : C-21 |
| Duramax..... | A-41 | | | Superkrimp..... | F-13 |
| E-Z Flex | A-27 | | | Swager | F-17 |
| Electrical Insulation..... | B-43 | | | | |
| Eliminator | A-28 | | | Table Mount..... | F-8 |

For detailed ordering information, please consult price list or contact Parflex® Division.

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Key Word Index (cont.)

| Keyword | Page | Keyword | Page | Keyword | Page |
|----------------------------------------|------|-----------------------------------------|------|-------------|------|
| Technical Data | | TOOLING | | | |
| AIR HOSE | | Crimp Specifications, | | | |
| Air Hose Size Selection | | Superkrimp..... | | G-30 : G-32 | |
| Fast-Stor, Measuring Bulk Hose | | Parkrimp 2..... | | G-30 : G-32 | |
| Fast-Stor, How To Assemble | | Karrykrimp 2..... | | G-33 : G-35 | |
| C-13 | | Phastkrimp | | G-33 : G-35 | |
| FITTINGS | | Karrykrimp..... | | G-36 : G-38 | |
| Standard Fitting Configurations by | | Parkrimp 1..... | | G-36 : G-38 | |
| Connection & End Code | | Minikrimp | | G-39 : G-40 | |
| Ferrul-Fix Installation | | Minikrimp Assembly | | | |
| Fitting Nomenclature..... | | Detail..... | | F-10 : F-11 | |
| Media to Fitting & | | Swage Specification, (Sewer Hose) | | G-41 | |
| Seal Compatibility | | TUBING | | | |
| Metals Corrosion Scale | | Compatibility Chart for Fittings..... | | B-5 | |
| Nomar Fast-Stor Assy Instruction..... | | Fluoropolymer Quick Reference..... | | B-44 | |
| O-Ring Material Selection Guide | | Fluoropolymer Chemical Resistance..... | | B-44 | |
| G-48 | | Fluoropolymer Property Comparison | | B-45 | |
| HOSE | | Fluoropolymer Nomenclature | | B-46 : B-47 | |
| Die Selection /Crimp/Swage | | Media to Plastic Tubing | | | |
| Hose Assembly & Crimping | | Material Guide | | G-55 : G-57 | |
| Hose Assembly Part Number | | Metal Tube & Fitting | | | |
| Hose Construction/Specifications | | Material Guide | | G-46 : G-47 | |
| PSI..... | | Pressure Ranges..... | | B-7 | |
| Hose Construction/Specifications | | Thermoplastic Hose | | A-22 : A-64 | |
| MPa..... | | True-Bore Hose..... | | A-77 | |
| Hose Diameter Selection..... | | Tube Cutter | | F-19 | |
| Hose Fitting Insertion Values | | Ultra-Lite Superbraid | | C-20 : C-21 | |
| Hose Fitting Thread Guide | | Ultrapure Tubing | | B-20 : B-21 | |
| Hose Permeation Data | | Ultraviolet Light Resistant | | | |
| Hose Nomenclature | | Tubing | | B-8 : B-11 | |
| Thermoplastic Hose | | Vise Blocks | | F-17 | |
| Hose Nomenclature | | Vise Mount..... | | F-8 | |
| Parflex PTFE Hose..... | | Vinyl Tubing | | B-39 : B-41 | |
| Hose Nomenclature | | Weatherhead Conversion Kit | | F-16 | |
| Parflex PAGE Hose | | | | | |
| Hose Selection, Inst. & Mtn. | | | | | |
| Hose, Volumetric Expansion | | | | | |
| Media to Hose | | | | | |
| Material Compatibility | | | | | |
| Stamped Form | | | | | |
| Swage Instructions (Sewer Hose) ... | | | | | |
| Twin/Multi-Line Separation | | | | | |
| Understanding Parflex Hose | | | | | |
| A-7 | | | | | |
| OTHER | | | | | |
| Government/Agency Specifications | | | | | |
| Materials to Parflex Part Number..... | | | | | |
| Metric Conversion Chart | | | | | |
| G-58 | | | | | |



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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

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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

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Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

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Advanced actuators
CO₂ 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 & driers
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
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Refuse vehicles
Renewable energy
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Turf equipment

Key Products

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Hydraulic motors & pumps
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Instrumentation

Key Markets

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Biopharmaceuticals
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Marine & shipbuilding
Medical & dental
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Nuclear Power
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Oil & gas
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Pulp & paper
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Key Products

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Process control fittings, valves, regulators & manifold valves



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

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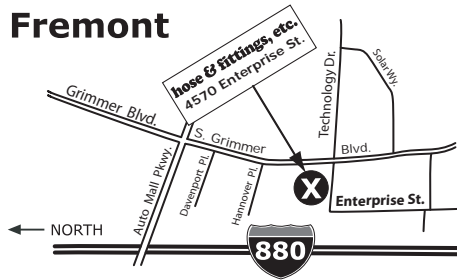
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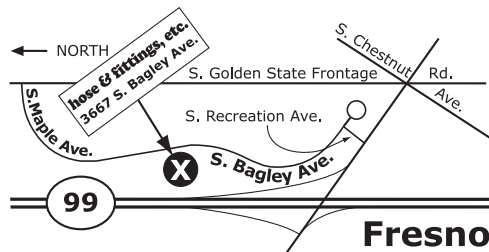
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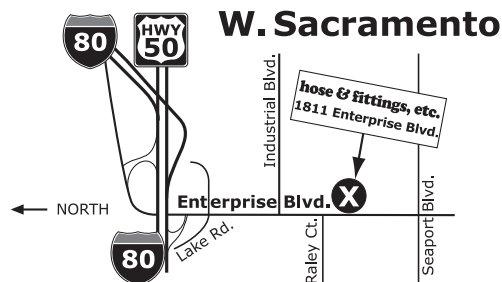
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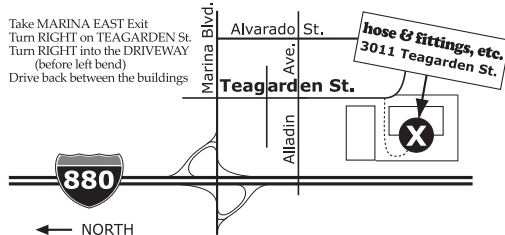


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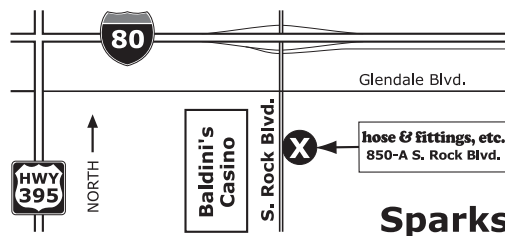


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