



## CAT 4900

Parflex Ultra High Pressure Thermoplastic Hose,  
Fittings and Accessories 2018



ENGINEERING YOUR SUCCESS.

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# Welcome to The Parflex Division



Manistowoc, WI  
Fort Worth, TX  
Stafford, TX  
Monterrey, MX  
Ravenna, OH  
Randleman, NC

## 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, instrumentation tubing, harnesses and accessories.

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

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

# How to Use This Catalog

## **Table of Contents**

For quick, easy listing of topics covered by section, reference the Table of Contents on page 3-4.

## **Information by Part Number**

See the Part Number Index in each chapter.

## **Information by Pressure**

Reference the Pressure Selection Chart found at the beginning of the hose section in the catalog.

## **Information by Market**

Reference the market information section, beginning on page 8.

## **The Parker Part Numbering System**

The part numbering system for hose begins on page A-8. Fitting nomenclature is on page B-4.

## **International Symbols**

An explanation of the symbols and their meaning used in the product tables can be found on page 5.

# Table of Contents

## A Hose

|                                      |                                |
|--------------------------------------|--------------------------------|
| Why Thermoplastic?.....A-4           | Hose Nomenclature.....A-8      |
| <b>polyflex</b> Hose Safety .....A-6 | Hose Selection Charts.....A-12 |
| How to Read the Hose Section.....A-7 | Hoses by Series .....A-18      |

## B Fittings

|  |                                   |
|--|-----------------------------------|
| Hose Fitting Nomenclature.....B-4        | Hose Fittings by Series .....B-10 |
| Hose Fitting Configuration Chart.....B-6 | PolyflexLok .....B-74             |
| How to Read the Fitting Section .....B-9 |                                   |

## C Adapters and Valves

|   |                                   |
|---|-----------------------------------|
| Part Number Nomenclature.....C-4          | NPT.....C-26                      |
| Type M.....C-7                            | JIC .....C-43                     |
| 20,000 psi - Medium Pressure .....C-11    | Valves —Medium Pressure .....C-47 |
| 30,000/60,000 psi High Pressure .....C-21 | Valves —High Pressure.....C-50    |

## D Quick Couplings

|  |  |
|--|--|
| Quick Coupling Part Number Nomenclature.....D-3                          |  |
| Rogan Series—30,000 psi Maximum Working Pressure.....D-5                 |  |
| C Series Hydraulic Couplers—29,800 psi Maximum Working Pressure.....D-12 |  |

## E Accessories

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Heavy Duty Abrasion Cover .....E-3 | Support Grips.....E-4               |
| Heavy Duty Abrasion                | Dies .....E-5                       |
| Cover Sleeves .....E-3             | Warning Tags.....E-5                |
| Spring Guards .....E-3             | Pressure Containment Shield.....E-4 |
| Bend Restrictors.....E-3           | Anti-Gall Lubricant.....E-5         |
| Containment Grips .....E-4         |                                     |

continued on next page



# Table of Contents



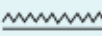
## F General Technical




|  |      |
|--|------|
| Chemical Resistance Table, Typical Waterblast and General Hydraulics .....   | F-10 |
| Chemical Resistance Table, Offshore Hoses .....  | F-26 |
| Engineering Manual (PFDE-ES28): Recommended Practices for Handling, Maintenance and Inspection of Large Bore Hoses and Assemblies Used in Oil & Gas Applications ..... | F-19 |
| Engineering Manual (PFDE-ES29): Technical Matrix for Parker <b>polyflex</b> Offshore Hoses .....   | F-14 |
| Gas Permeability of Plastics.....  | F-8  |
| Hose Dash Sizes .....  | F-4  |
| Hose Installation Tips .....   | F-5  |
| Pressure Drop - Determination of Pressure Drop in the Line .....   | F-7  |
| Recommended Tightening Procedures.....   | F-9  |
| Selection of Hose Diameter from Flow Rate and Velocity.....  | F-6  |
| Selection, Installation and Maintenance of <b>polyflex</b> Hose and Hose Assemblies.....   | F-3  |

|                         |      |
|-------------------------|------|
| Safety Guide.....       | F-32 |
| Offer of Sale.....      | F-39 |
| Part Number Index ..... | F-41 |

# Symbols

| Symbol  | Meaning                    |
|---|----------------------------|
| #   | Part Number                |
|  | Hose Inner Diameter (I.D.) |
|  | Hose Outer Diameter (O.D.) |

| Symbol  | Meaning             |
|---|---------------------|
|  | Working Pressure    |
|  | Minimum Bend Radius |
|  | Thread Size         |

| Symbol  | Meaning  |
|---|----------|
|  | Hex Size |
|  | Diameter |
|  | Weight   |

## ICON Identification Key

Hose markets/applications are identified using the following icons:



Oilfield Service



Waterblast



Hydraulic

# Selecting the Right Hose

## Choosing Your Hose

Before selecting hoses from Catalog 4900, it will be easier if you familiarize yourself with the basics of high pressure thermoplastic hoses. If you review the symbols on page 5 and the hose and fitting part number explanations in Sections A and B, respectively, you will have a foundation for selecting your hose. Also, the Hose Selection Charts (located at the beginning of Section A) will help pinpoint the hose you require. You can use the catalog to identify individual hoses by:

- Brief general description
- Specific size with corresponding working pressure
- Market application
- Core tube material
- Reinforcement/type of construction
- Cover material

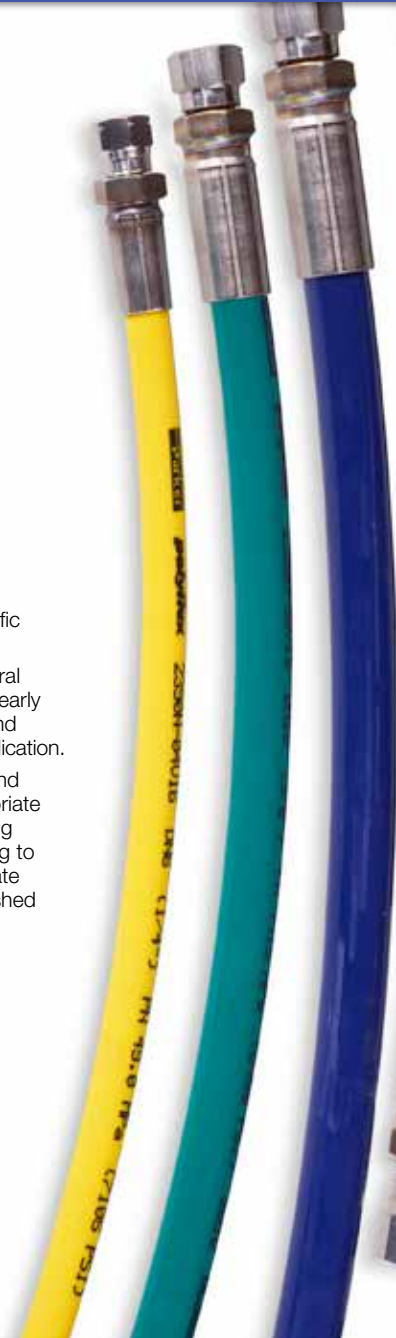
For fittings, refer to the visual indexes in Section B.

## General Construction

Construction standards may vary between specific thermoplastic hoses.

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.

Hoses are engineered and manufactured to appropriate burst pressure to working pressure ratios according to application. Never operate a hose beyond its published working pressure.







## “STAMPED”

### Size

The appropriate inside and outside diameters and length of the hose should be determined

### Temperature

The ambient and/or maximum temperature of the material being conveyed

### Application

External conditions including abrasion, climate, heat, flexing, crushing, kinking, and degrees of bending

### Media

The composition of the substance being conveyed and chemical compatibility with the hose inner core and, if applicable, the outer cover

### Pressure

The maximum pressure of the system, including pressure spikes

### Ends

The appropriate end connection and attachment method for the application

### Delivery

Testing, quality, packaging, and delivery requirements



# Waterblast / Water Jetting



Parker Parflex provides the best ultra high pressure hoses and fittings to fill the needs of the market segments that utilize water blast and water jetting technologies.

Parflex provides the power generation and refining markets with small diameter, low volumetric expansion hoses for tight routing applications, such as high pressure heat exchanger tube cleaning in petro-chemical and power plants.

**polyflex** hoses are also ideal for construction applications such as hydrodemolition, industrial cleaning and surface preparation.

**polyflex** hoses are also used in industries where water cutting is utilized — cutting through everything from chicken,

in the food processing industry, to more industrial mediums like glass and concrete.

**polyflex** hoses are the highest quality ultra high pressure thermoplastic hoses on the market. The new TOUGHJACKET™ design is sleeker and more durable than a PVC covered hose. See additional features on next page.

The water jetting icon above indicates hoses that are suitable for these applications. A visual index of these hoses is on pages 10-11.

## Applications

- Heat exchanger tube cleaning
- Water jet cutting: metal, concrete, glass, ceramics, plastics/rubber, stone
- Surface preparation
- Deburring
- Pavement Maintenance
- Tank cleaning
- Boiler cleaning
- Paint removal
- Cooling towers
- Hydrodemolition systems
- Sewer jetting
- Ship cleaning
- Rubber removal from airport runways
- Ultra high pressure food pasteurization
- Ultra high pressure water jet surgery



## Markets

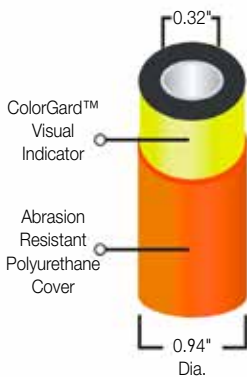
- Industrial Cleaning
- Power Generation
- Chemical Refining
- Machine Tools
- Highway Maintenance
- Construction
- Marine
- Food Processing



# TOUGHJACKET™

**Built in abrasion resistance** eliminates the need for an additional PVC sleeve and lightens the hose by up to 16%.

TOUGHJACKET™ Hose





Traditional Water Blast  
Hose with PVC Cover








# Waterblast / Water Jetting






## Visual Index of Waterblast / Water Jetting Hoses


|                    |   |   |   |                    |
|--------------------|---|---|---|--------------------|
| <b>2200 Series</b> | <b>2240D</b>  | High pressure service for tube cleaning applications such as heat exchangers / Flexible lance | <b>2248D</b>  | Tube cleaning hose |
|                    | <br>A-22 |   | <br>A-22 |                    |



|                    |   |   |   |   |
|--------------------|---|---|---|---|
| <b>2300 Series</b> | <b>2380N-...W</b>   | Construction and shipbuilding industries / General industrial cleaning applications | <b>2388N-...W</b>   | Construction and shipbuilding industries / General industrial cleaning applications |
|                    | <br>A-26 |   | <br>A-30 |   |


|                    |   |  |   |   |   |  |
|--------------------|---|--|---|---|---|--|
| <b>2400 Series</b> | <b>2440D</b>  | High pressure heat exchanger tube cleaning | <b>2440N</b>  | Construction and shipbuilding industries / General industrial cleaning applications | <b>2448D</b>  | High pressure heat exchanger tube cleaning |
|                    | <br>A-34 |  | <br>A-36 |   | <br>A-34 |  |

|                    |   |   |
|--------------------|---|---|
| <b>2500 Series</b> | <b>2580N</b>  | General industrial cleaning in construction and shipbuilding industries / Hydrodemolition |
|                    | <br>A-40 |   |

|                    |   |   |   |   |
|--------------------|---|---|---|---|
| <b>2600 Series</b> | <b>2640D</b>  | Construction and shipbuilding industries / General industrial cleaning applications | <b>2640N</b><br><b>2648N</b>  | Construction and shipbuilding industries / General industrial cleaning applications |
|                    |  <p>A-42</p> |   |  <p>A-44</p> |   |

|                    |   |  |
|--------------------|---|--|
| <b>2700 Series</b> | <b>2740D</b><br><b>2748D</b><br><b>2749D</b>  | Tight routing applications, such as high pressure heat exchanger tube cleaning |
|                    |  <p>A-46</p> |  |

|                    |   |   |   |   |
|--------------------|---|---|---|---|
| <b>2800 Series</b> | <b>2840D</b><br><b>2848D</b>  | Water jet cutting equipment with water only or with abrasive additives / Hydroforming | <b>2849D</b>  | Water jet cutting equipment with water only or with abrasive additives / Hydroforming |
|                    |  <p>A-48</p> |   |  <p>A-50</p> |   |

|  |   |
|--|---|
|  <p><b>TOUGH JACKET</b><sup>TM</sup></p> <p>Available</p> | <p>2440N-08</p> <p>2740D-03</p> <p>2740D-05</p> <p>2840D-03</p> <p>2840D-05</p> <p>2849D-05</p> |
|--|---|



The Parflex and Polyflex divisions of Parker Hannifin have been supplying a wide range of thermoplastic hose products to the oil and gas market for over 30 years.

With production plants in both the USA and Europe, supported by Parker's global sales and distribution network, customers can benefit from local service and the supply of quality parts wherever they are situated.

**polyflex** hoses can be used in a wide variety of Oil & Gas applications, both onshore and offshore, and are available with seawater resistant cover materials.

The Oil & Gas icon above indicates hoses with applications in the Oil & Gas industry, such as, umbilical and jumper hoses, BOP and hotline hoses, hydraulic control and testing hoses and large bore hoses for well servicing.

A visual index of Oil & Gas hoses can be found on pages 14-15.

## Applications

- Umbilical Hose
- BOP Stack Hose
- Oilfield Well Service
  - Cementing
  - Chemical injection
  - Well intervention
- Gas transfer
- High volume flow rate pumping offshore
- Wireline / Grease injection
- Pressure testing
- Snubbing and hydraulic workover systems
- Nitrogen pumping
- Perforating
- Well equalization lines



## Markets


- Onshore Drilling
- Offshore Drilling
- Offshore Production







## Visual Index of Oil & Gas Hoses






|                    |   |  |
|--------------------|---|--|
| <b>2000 Series</b> | <b>2022N</b>  | Long-length hose and hose umbilicals / Oilfield pressure control devices / Offshore oil applications |
|                    | <br>A-20 |  |

|                    |   |                                   |   |                       |   |   |
|--------------------|---|-----------------------------------|---|-----------------------|---|---|
| <b>2300 Series</b> | <b>2380N</b>  | Long-length subsea umbilical hose | <b>2388N</b>  | Grease injection hose | <b>2390N</b>  | Subsea hydraulic controls/Long-length hot line hose / BOP stack control lines |
|                    | <br>A-28 |                                   | <br>A-30 |                       | <br>A-32 |   |

|                    |   |                                   |   |                                   |
|--------------------|---|-----------------------------------|---|-----------------------------------|
| <b>2400 Series</b> | <b>2440N</b>  | Long-length subsea umbilical hose | <b>2448N</b>  | Long-length subsea umbilical hose |
|                    | <br>A-38 |                                   | <br>A-38 |                                   |

|                    |   |                                    |
|--------------------|---|------------------------------------|
| <b>2600 Series</b> | <b>2640N</b>  | Ultra high pressure umbilical hose |
|                    | <br>A-44 |                                    |

|                                 |   |                     |
|---------------------------------|---|---------------------|
| <b>HP Series (See pg. A-56)</b> | <b>HP</b>   | High Pressure Tools |
|                                 |  |                     |

|                |   |                                   |   |                                   |   |                                   |
|----------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|
| <b>ChemJec</b> | <b>2440M</b>  | Long-length subsea umbilical hose | <b>2448M</b>  | Long-length subsea umbilical hose | <b>2640M</b>  | Long-length subsea umbilical hose |
|                | <br>A-68 |                                   | <br>A-68 |                                   | <br>A-68 |                                   |



**Black  
Eagle /  
Golden  
Eagle**

|   |   |   |   |
|---|---|---|---|
| <b>2240N-48V80</b>  | Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation | <b>2440N-48V80</b>  | Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation |
|    |   |    |   |
| A-62  |   | A-62  |   |
| <b>2448N-32V80</b>  | Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation | <b>2580N-32V80</b>  | Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation |
|    |   |    |   |
| A-60  |   | A-60  |   |
| <b>2640N-24V80</b>  | Water and gas injection hose / Acidizing / Mud circulation                  | <b>2640N-48V80</b>  | Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation |
|    |   |    |   |
| A-58  |   | A-62  |   |
| <b>2648N-32V80</b>  | Water and gas injection hose / Acidizing / Mud circulation                  | <b>2240N-32V10</b><br><b>2248N-32V10</b>  | Cementing Hose  |
|    |   |    |   |
| A-60  |   | A-64  |   |
| <b>2580M-32V88</b>  | Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation | <b>2640M-24V88</b>  | Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation |
|  |   |  |   |
| A-66  |   | A-66  |   |

|                   |   |  |
|-------------------|---|--|
| <b>HCR Series</b> | <b>HCR</b>  | Offshore oil field exploration and production applications |
|                   |  |  |
| A-52              |   |  |

|                 |   |  |
|-----------------|---|--|
| <b>Sea Wolf</b> | <b>57CR</b>   | Offshore oil field exploration and production applications |
|                 |  |  |
| A-54            |   |  |

# Hydraulic



Parflex also offers a number of hoses for high pressure hydraulic applications.

**polyflex** hoses can be used to power hydraulic tools, such as torque wrenches and bolt tensioners. They are also used on rescue equipment such as the Jaws of Life and similar tools.

Hoses can be easily bonded to create twin-line and multi-line assemblies.

Other suitable hydraulic applications include test rigs and pressure testing equipment.

The hydraulic icon above indicates hoses that are suitable for hydraulic applications. A visual index of these hoses can be found on pages 18-19.

## Applications

- Rescue tools (i.e. Jaws of Life)
- Torque wrenches
- Bolt tensioners
- Pressure testing
- Power Units
- Hydraulic Jacks





## Markets




- Rescue Tools
- Hydraulic Tools
- Automotive
- Airports & Military Bases
- Engineering & Test Facilities
- Manufacturers using Hydraulic Presses
- Hydraulic Service/Repair Facilities
- Construction Equipment








## Visual Index of Hydraulic Hoses

|                    |   |  |   |   |
|--------------------|---|--|---|---|
| <b>2000 Series</b> | <b>2020N</b>  | Mini-hydraulic and gas applications/<br>Measuring and diagnostic systems | <b>2022N<br/>10K</b>  | High pressure hydraulics,<br>pneumatics and lubricating<br>oils / High pressure tools /<br>Jacks / Test apparatus |
|                    | <br>A-18 |  | <br>A-20 |   |

|                    |   |  |   |                                      |
|--------------------|---|--|---|--------------------------------------|
| <b>2300 Series</b> | <b>2380N</b>  | Hydraulic controls / Test systems<br>with synthetic and phosphate ester<br>fluids (e.g. Skydrol) | <b>2388N</b>  | Hydraulic Jacks / Bolt<br>tensioning |
|                    | <br>A-28 |  | <br>A-30 |                                      |
|                    | <b>2390N</b>  | Pressure testing / Portable hydraulic<br>tools / Offshore hydraulic systems                      | <br>A-32 |                                      |

|                    |   |  |
|--------------------|---|--|
| <b>2400 Series</b> | <b>2440N<br/>2448N</b>  | For use with petroleum or synthetic<br>hydraulic fluids, gas applications and<br>compressors |
|                    | <br>A-38 |  |

|                   |   |  |
|-------------------|---|--|
| <b>HCR Series</b> | <b>HCR</b>  | Offshore oil field exploration;<br>subsea hydraulics |
|                   |  <p>A-52</p> |  |

|                  |   |  |   |  |
|------------------|---|--|---|--|
| <b>HP Series</b> | <b>HP</b>   | High pressure hydraulic, pneumatic and lubricating oils / High pressure tools / Rigging jacks / Test apparatus / Oilfield pressure control devices | <b>HP8</b>  | High pressure hydraulic, pneumatic and lubricating oils / High pressure tools / Rigging jacks / Test apparatus / Oilfield pressure control devices / Aerial lift equipment |
|                  |  <p>A-56</p> |  |  <p>A-56</p> |  |



# Hose

High Pressure and  
Ultra High Pressure  
Thermoplastic



# Table of Contents

## Introduction

|  |      |
|--|------|
| Why <b>polyflex</b> Thermoplastic Hose?.....                 | A-4  |
| <b>polyflex</b> Hose Safety.....                             | A-6  |
| How to Read the Hose Section.....                            | A-7  |
| Hose Part Numbers - Nomenclature.....                        | A-8  |
| Hose Assembly Part Numbers - Nomenclature.....               | A-10 |
| Hose Selection - by Working Pressure - Waterblast Hoses..... | A-12 |
| Hose Selection - by Working Pressure - Hydraulic Hoses.....  | A-14 |
| Hose Selection - by Working Pressure - O&G Hoses.....        | A-16 |

## **polyflex** Thermoplastic Hose

|                              |      |
|------------------------------|------|
| 2000 Series.....             | A-18 |
| 2020N.....                   | A-18 |
| 2022N.....                   | A-20 |
| 2200 Series.....             | A-22 |
| 2240D/2248D.....             | A-22 |
| 2300 Series.....             | A-26 |
| 2380N - Waterblast Hose..... | A-26 |
| 2380N.....                   | A-28 |
| 2388N.....                   | A-30 |
| 2388N - Waterblast Hose..... | A-30 |
| 2390N.....                   | A-32 |
| 2400 Series.....             | A-34 |
| 2440D/2448D.....             | A-34 |
| 2440N - Waterblast Hose..... | A-36 |
| 2440N/2448N.....             | A-38 |
| 2500 Series.....             | A-40 |
| 2580N.....                   | A-40 |
| 2600 Series.....             | A-42 |
| 2640D.....                   | A-42 |
| 2640N/2648N.....             | A-44 |
| 2700 Series.....             | A-46 |
| 2740D/2748D/2749D.....       | A-46 |
| 2800 Series.....             | A-48 |



## ***polyflex*** Thermoplastic Hose (continued)

|                           |      |
|---------------------------|------|
| 2800 Series .....         | A-48 |
| 2840D/2848D .....         | A-48 |
| 2849D .....               | A-50 |
| 57CR Series .....         | A-54 |
| HCR Series .....          | A-52 |
| HP Series .....           | A-56 |
| HP/HP8 .....              | A-56 |
| <b>Black Eagle</b> .....  | A-58 |
| 1-1/2" Black Eagle .....  | A-58 |
| 2" Black Eagle .....      | A-60 |
| 3" Black Eagle .....      | A-62 |
| Black Eagle Light .....   | A-64 |
| <b>Golden Eagle</b> ..... | A-66 |
| <b>ChemJec</b> .....      | A-68 |

Fittings

**B**

Adapters & Valves

**C**

Quick Couplings

**D**

Accessories

**E**

General Technical

**F**

# Why Thermoplastic?

## Easy and Quick Installation

- ◆ Very small sizes starting with inner diameters of 2 mm (DN2 or -012). Typical disadvantages that come with using oversized hoses, such as extensive costs, waste of space, extensive weight, and complicated installation, can be avoided.
- ◆ Lightweight by design – possible weight reduction of more than 50% when compared to conventional hydraulic hoses.
- ◆ Very small outer diameters due to compact design.
- ◆ Small bend radii to save installation space.
- ◆ Long, continuous hose lengths up to 4000 meters help minimize scrap due to unusable cut-off pieces and often render connection joints unnecessary.
- ◆ Wide range of colors for easy identification of hose function and to harmonize the appearance of machine and hose.
- ◆ Easy cutting and processing, especially with textile fiber reinforced hose types.

## Outstanding Performance

- ◆ Very high working pressures up to 58,000 psi (4,000 bar).
- ◆ Reduced pressure loss due to smooth core tubes.
- ◆ Electrically conductive hoses according to SAE J517.
- ◆ Volumetric expansion according to customers needs.
- ◆ High purity of the extremely smooth core tube reduces the danger of contamination of the hydraulic system caused by deposits in the hose.
- ◆ Excellent abrasion resistance.
- ◆ High collapse pressure.
- ◆ Long shelf life.
- ◆ Individual customer hose bundles.
- ◆ Customer specific hose marking.

## Dedicated Features

- ◆ Outstanding chemical resistance
  - of hose outer cover against environmental effects
  - of hose core tube against media.
- ◆ Long service life due to excellent UV- and ozone-resistance.
- ◆ Seawater-resistant hose materials.
- ◆ Wide temperature range from -40°F (-40°C) up to 212°F (100°C) .
- ◆ Easily bond hoses together into twinline or multiline assemblies to achieve space-saving and compact units.
- ◆ Suitable for industrial gases.



Fittings

B

Adapters &amp; Valves

C

Quick Couplings

D

Accessories

E

General Technical

F

## For Your Safety

The hose assemblies listed in this catalog are all special constructions with the hose having up to eight spiral layers of steel wire. Due to this construction, pressures are achieved which far exceed international standards. These hose types are manufactured and tested according to the **polyflex** standards which have proved to be effective over many years.

**polyflex** hose assemblies are used at considerable working pressures. The critical area of a hose assembly is the connection between flexible hose and rigid fitting (crimping area). Only the use of original **polyflex** components (hose, fittings and tooling) and full compliance with the **polyflex** assembly instructions can guarantee safety and conformity with standards. It is essential that training be given to customers in the hose assembly process in order to make high quality **polyflex** maximum pressure hose assemblies.

For the production and testing of the hose assemblies relevant to the applications, the guidelines and technical regulations, as well as, the protection and hazard prevention rulings must be adhered to.

You, as the manufacturer of **polyflex** hose assemblies, are obliged to mark these hose assemblies according to the regulations and to verify their safety by a final pressure test.

Non-compliance with these rules can lead to the premature failure of the hose assembly and the loss of warranty.



- Treat high pressure hose with extreme caution. **polyflex** hoses are ultra high pressure hoses, not garden hoses, and should be treated like high pressure vessels.
- Always inspect for frayed, damaged or worn spots before using.
- Check the end connections for wear, rust, cracks or other deterioration which could produce a dangerous projectile.
- Know the working pressures and burst pressures of all hoses before using them.
- Always use clean, filtered medium to prolong hose life.
- Always clean, drain and coil hoses after use.
- Use only hoses assembled by an authorized Parker distributor.



- Never fix a hose at the sleeves.
- Never use a hose with cuts or wire showing through the outer cover.
- Never use a hose with bubbles, listers or kinks.
- Don't exceed the bend radius and pressure rating for each hose.
- Don't run over the or crush the hose with vehicles.
- Hoses with corroded or leaking end connections should be avoided.
- Avoid using dirty medium or medium with sulfur compound in it.
- Don't bend the hose over scaffolding or pull heavy equipment with the hose.
- Don't let hose support its own weight off towers or buildings.
- Never use hose without hose arrestors (containment grips).
- Don't expect water jetting or hydraulic hose to last forever.
- Don't change or repair a hose without instructions from the manufacturer.
- Never disconnect a hose under pressure.

# How to Read the Hose Section

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

| Part Number | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |     | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|------|--------------|------|--------------------------|-----|---------------------|-----|--------|------|----------------|
| #           |              |              |      |      |              |      |                          |     |                     |     |        |      |                |
|             |              | DN           | inch | mm   | inch         | mm   | psi                      | bar | inch                | mm  | lbs/ft | kg/m |                |
| 2440N-16V37 | Gray         | 25           | 1    | 25.0 | 1.47         | 37.4 | 8,160                    | 562 | 11.8                | 300 | 1.34   | 2.00 | LX             |

NOTE: The imperial measurements are in black. The metric equivalents appear in blue.

## 1 Part Number

Hose Series Part Number - gives the construction and core tube material of the hose.

## 2 Jacket Color

Color of the hose jacket.

## 3 Inside Diameter

Distance between inner walls of the core tube.

## 4 Outside Diameter

Nominal diameter of the hose.

## 5 Working Pressure

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

Working pressure listed is dependent on application. Water blast applications will typically have a 2.5:1 design factor. Hydraulic and Oil & Gas applications will typically have a 4:1 design factor. Contact Parflex division for detailed hose performance criteria.

## 6 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.

## 7 Weight

Provided in lbs/ft and kg/m.

## 8 Approved Fitting

Approved fitting series for selected hose. Technical information for fittings is provided in Section B.

# Hose Part Numbers

## Hose Part Number Build



**2440N-08V30/12**

**2440**

### 1. Reinforcement I

- 0 = No spiralizing
- 1 = Two open spiralized layers
- 2 = Two closed spiralized layers
- 3 = Two closed spiralized layers two open spiralized layers
- 4 = Four closed spiralized layers
- 5 = Four closed spiralized layers (increased pressure)
- 6 = Six closed spiralized layers
- 7 = Six closed spiralized layers (increased pressure)
- 8 = Eight closed spiralized layers
- 9 = Eight closed spiralized layers (increased pressure)

**2440**

**2440**

### 2. Reinforcement II (If Reinforcement I ≠ 0)

- 1 = Synthetic fiber (not aramid)
- 2 = Aramid fiber
- 3 = Stainless steel wire
- 4 = Steel wire
- 5 = Iron wire
- 6 = Cord strand
- 7 = Steel wire and open spiralized synthetic yarn
- 8 = Steel wire and open spiralized cord strand
- 9 = Other construction)

### 2. Reinforcement II (If Reinforcement I = 0)

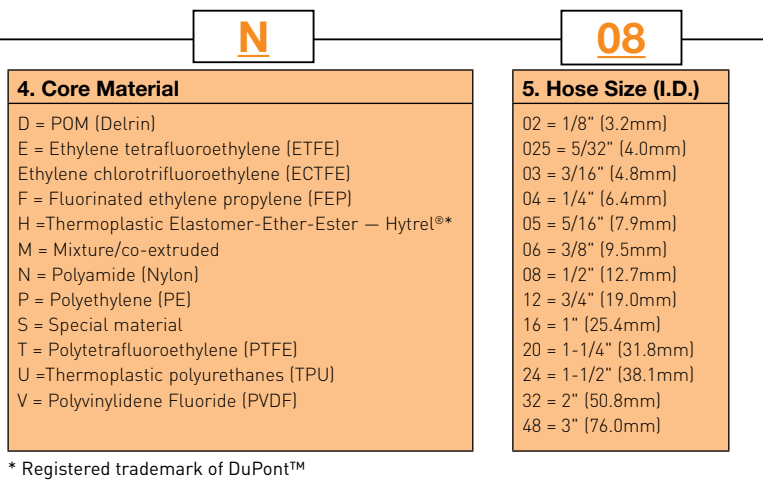
- 0 = No braiding
- 1 = One braid of non-aramid fiber
- 2 = One braid of aramid fiber
- 3 = One braid of stainless steel wire
- 4 = One braid of steel wire
- 5 = One braid of iron wire
- 6 = one braid of iron wire, zinc-plated

### 3. Reinforcement III

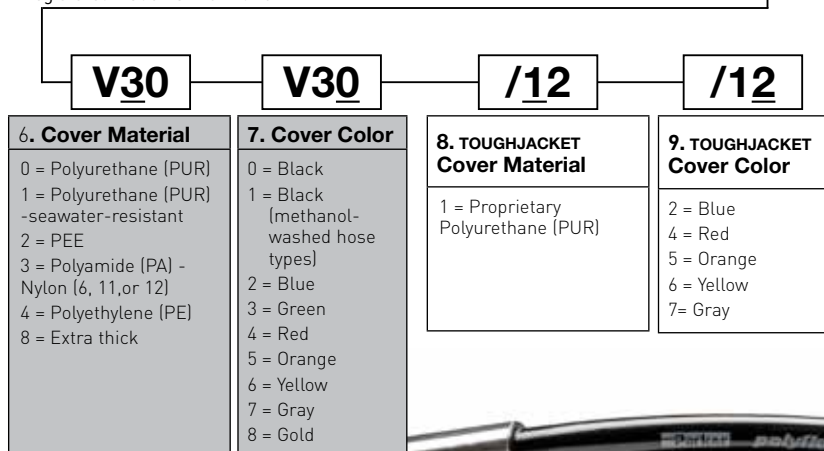
- 0 = No braiding
- 1 = One braid of non-aramid fiber
- 2 = One braid of aramid fiber
- 3 = One braid of stainless steel wire
- 4 = One braid of steel wire
- 5 = One braid of iron wire
- 6 = One braid of iron wire, zinc-plated
- 7 = (open)
- 8 = Different pressure reinforcement

Hose Assembly Part Numbers - Nomenclature—page A-10

Fitting Part Numbers - Nomenclature—page B-4



\* Registered trademark of DuPont™



# Hose Assembly Part Numbers

## *polyflex* Hose Assembly Nomenclature



2390N

06

01

2390N

06

01

### Hose

This series of numbers will indicate the hose base number. See pg. A-8 for detailed hose part number breakdown.

Example:  
2390N - 04V16

### Connection Type

These two digits will indicate the STYLE of connection End 1 and End 2

|       |   |
|-------|---|
| 01    | = NPT - Male                                      |
| 02    | = NPT - Female                                    |
| 06    | = JIC 37° Flare - Female                          |
| 5Y    | = Medium Pressure Female - Swivel                 |
| 6A    | = Code 62   |
| 6Y    | = High Pressure Female - Swivel                   |
| 8K    | = API Hub with Flange                             |
| 92    | = BSP Female - Swivel                             |
| 9G    | = Straight Dual Seal                              |
| AY    | = Type "M" Female - Swivel                        |
| C3/C9 | = METRIC Female - Swivel                          |
| D9    | = BSP Rigid - Male                                |
| HB    | = API Hub   |
| HE    | = 2" Hammer Union, cone w/ Wing Nut, Male         |
| HN    | = Hammer Union, Cone Threaded End w/ Seal, Female |
| HY    | = Waterblast Nozzle - Female                      |
| MB    | = STECKO  |
| TU    | = Tube Stub Fitting                               |
| Y2    | = Medium Pressure - Tube Nipple                   |
| Y4    | = High Pressure - Tube Nipple                     |
| YH    | = Waterblast Nozzle - Male                        |
| YM    | = Waterblast Nozzle - Male Metric                 |



**Hose Part Numbers - Nomenclature**—page A-8

**Fitting Part Numbers - Nomenclature**—page B-4



**06 08 04 C 16 - 600**

**06 08 04**

| Connection Type  |                      |  | Hose Size   |                |      |
|--|----------------------|--|---|----------------|------|
| These two digits will indicate the SIZE of connection - End 1 and End 2. |                      |  | When specifying hose size, indicate the two-digit code. |                |      |
| JIC/Type M   | BSP                  | MP & HP Tube<br>(Sized by nominal tube O.D.) | Hose I.D.   | Hose Dash Size | Code |
| 01 = 1/4" - 28 UNF   | 02 = G 1/8" - 28     | 04 = 1/4" - 28                               | 5/64"   | -012           | 1A   |
| 02 = 5/16" - 24 UNF  | 04 = G 1/4" - 19     | 06 = 3/8" - 24                               | 1/8"  | -02            | 02   |
| 03 = 3/8" - 24 UNF   | 06 = G 3/8" - 19     | 09 = 9/16" - 18                              | 5/32"   | -025           | 2B   |
| 04 = 7/16" - 20 UNF  | 08 = G 1/2" - 14     | 12 = 3/4" - 16                               | 3/16"   | -03            | 03   |
| 05 = 1/2" - 20 UNF   | <b>NPTF</b>          | 16 = 1" - 14                                 | 1/4"  | -04            | 04   |
| 06 = 9/16" - 18 UNF  | 01 = 1/16" - 27      |  | 5/16"   | -05            | 05   |
| 07 = 5/8" - 18 UNF   | 02 = 1/8" - 27       |  | 3/8"  | -06            | 06   |
| 08 = 3/4" - 16 UNF   | 04 = 1/4" - 18       |  | 1/2"  | -08            | 08   |
| 10 = 7/8" - 14 UNF   | 06 = 3/8" - 18       |  | 3/4"  | -12            | 12   |
| 11 = 1" - 12 UNF   | 08 = 1/2" - 14       |  | 1"  | -16            | 16   |
| 12 = 1-1/16" - 12 UNF  | 12 = 3/4" - 14       |  | 1-1/4"  | -20            | 20   |
| 13 = 1-1/8" - 12 UNF   | 16 = 1" - 11-1/2     |  | 1-1/2"  | -24            | 24   |
| 15 = 1-1/4" - 12 UNF   | 20 = 1-1/4" - 11-1/2 |  | 2"  | -32            | 32   |
| 16 = 1-5/16" - 12 UNF  | 24 = 1-1/2" - 11-1/2 |  | 3"  | -48            | 48   |
| 17 = 1-3/8" - 12 UNF   | 32 = 2" - 11-1/2     |  |   |                |      |
| 19 = 1-1/2" - 12 UNF   |                      |  |   |                |      |
| 20 = 1-5/8" - 12 UNF   |                      |  |   |                |      |

**C 16 600**

**Fitting Material**  
This letter indicates the material of the fittings used.  
  
S=Carbon Steel  
C=Stainless Steel

**Hose Variation Number**  
This series of numbers will indicate the hose variation number. See pg. A-8 for detailed hose part number breakdown.  
Example: 2390N-04 V16

**Length**  
Indicate the assembly length in imperial units. This example is 600 inches.

# Hose Selection Chart

| Nominal Size   |      |      |    | Working Pressure psi [bar] |                   |                   |                   |                   |                   |                   |                   |
|----------------|------|------|----|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                |      |      |    | 2240D                      | 2248D             | 2380N-...W        | 2388N-...W        | 2440D             | 2448D             | 2440N             | 2580N             |
| size           | inch | mm   | DN |                            |                   |                   |                   |                   |                   |                   |                   |
| -02            | 1/8  | 3.2  | 3  | 15,950<br>(1,100)          |                   |                   |                   | 30,000<br>(2,070) |                   |                   |                   |
| -025           | 5/32 | 4.0  | 4  | 17,400<br>(1,200)          | 21,750<br>(1,500) |                   |                   | 31,900<br>(2,200) | 43,645<br>(3,010) |                   |                   |
| -03            | 3/16 | 4.8  | 5  | 15,955<br>(1,100)          | 20,300<br>(1,400) |                   |                   | 26,100<br>(1,800) |                   |                   |                   |
| -04            | 1/4  | 6.4  | 6  | 15,950<br>(1,100)          |                   | 15,950<br>(1,100) | 18,560<br>(1,280) | 23,780<br>(1,640) |                   | 20,300<br>(1,400) |                   |
| -05            | 5/16 | 7.9  | 8  | 13,050<br>(900)            |                   | 14,500<br>(1,000) |                   | 21,750<br>(1,500) |                   |                   |                   |
| -06            | 3/8  | 9.5  | 10 |                            |                   |                   |                   |                   | 20,300<br>(1,400) | 23,200<br>(1,600) |                   |
| -08            | 1/2  | 12.7 | 12 |                            |                   | 12,760<br>(880)   | 15,950<br>(1,100) |                   |                   | 20,300<br>(1,400) | 20,300<br>(1,400) |
| -12            | 3/4  | 19.0 | 20 |                            |                   |                   |                   |                   |                   | 14,500<br>(1,000) | 17,400<br>(1,200) |
| -16            | 1    | 25.4 | 25 |                            |                   |                   |                   |                   |                   | 13,050<br>(900)   |                   |
| Fitting Series |      |      |    | TX                         | TX                | KY<br>LX          | KY<br>BS          | LX                | LX                | LX                | BL                |
| Page #         |      |      |    | A-22                       | A-22              | A-26              | A-30              | A-34              | A-34              | A-36              | A-40              |

TOUGHJACKET™ versions rated the same as the base hose design.

# Working Pressure psi/bar- Waterblast 2½:1 Applications

|  | Working Pressure psi [bar] |                  |                  |                   |                   |                   |                    |                   | Nominal Size   |      |      |      |
|--|----------------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|-------------------|----------------|------|------|------|
|  | 2640D                      | 2640N            | 2648N            | 2740D             | 2748D             | 2749D             | 2840D              | 2849D             | DN             | mm   | inch | size |
|  |                            |                  |                  |                   |                   |                   |                    |                   |                | 3    | 3.2  | 1/8  |
|  | 40,600<br>(2,800)          |                  |                  | 43,500<br>(3,000) |                   |                   |                    |                   | 4              | 4.0  | 5/32 | -025 |
|  | 36,230<br>(2,500)          |                  |                  | 40,600<br>(2,800) |                   |                   | *58,000<br>(4,000) |                   | 5              | 4.8  | 3/16 | -03  |
|  |                            |                  |                  |                   |                   |                   |                    |                   | 6              | 6.4  | 1/4  | -04  |
|  |                            |                  |                  | 36,230<br>(2,500) | 40,600<br>(2,800) | 43,645<br>(3,010) | 43,500<br>(3,000)  | 55,000<br>(3,800) | 8              | 7.9  | 5/16 | -05  |
|  |                            |                  |                  |                   |                   |                   |                    |                   | 10             | 9.5  | 3/8  | -06  |
|  |                            | 26,100<br>(1800) |                  |                   |                   |                   | 36,250<br>(2,500)  |                   | 12             | 12.7 | 1/2  | -08  |
|  |                            | 20,300<br>(1400) | 23,200<br>(1600) |                   |                   |                   |                    |                   | 20             | 19.0 | 3/4  | -12  |
|  |                            |                  | 21,750<br>(1500) |                   |                   |                   |                    |                   | 25             | 25.4 | 1    | -16  |
|  | 2X                         | 5X               | JX<br>CX         | 2X                | 2X                | 2X                | 2X<br>WX           | WX                | Fitting Series |      |      |      |
|  | A-42                       | A-44             | A-44             | A-46              | A-46              | A-46              | A-48               | A-50              | Page #         |      |      |      |

\* Not DIN EN 1829-2 qualified. Others are with PFDE fittings.

TOUGHJACKET™ versions rated the same as the base hose design.

# Hose Selection Chart

|                            |          | Working Pressure psi [bar] |                |                 |      |                 |                 |                 |                |
|----------------------------|----------|----------------------------|----------------|-----------------|------|-----------------|-----------------|-----------------|----------------|
| Dimensions<br>→            | size     | -012                       | -02            | -025            | -03  | -04             | -05             | -06             |                |
|                            | inch     | 5/64                       | 1/8            | 5/32            | 3/16 | 1/4             | 5/16            | 3/8             |                |
| Hose Type<br>↓             | mm       | 2                          | 3.2            | 4               | 4.8  | 6.4             | 7.9             | 9.5             |                |
|                            | DN       | 2                          | 3              | 4               | 5    | 6               | 8               | 10              |                |
| Working Pressure psi [bar] | 2020N    | 6,890<br>(475)             | 5,800<br>(400) |                 |      |                 |                 |                 |                |
|                            | 2022N    |                            |                |                 |      | 10,000<br>(690) |                 | 10,000<br>(690) |                |
|                            | 2380N    |                            |                | 10,875<br>(750) |      | 10,150<br>(700) | 9,060<br>(625)  |                 |                |
|                            | 2388N    |                            |                |                 |      | 11,600<br>(800) |                 |                 |                |
|                            | 2390N    |                            |                |                 |      | 7,107<br>(490)  |                 |                 |                |
|                            | 2580N    |                            |                |                 |      |                 |                 |                 |                |
|                            | HP / HP8 |                            |                |                 |      | 10,000<br>(690) | 10,000<br>(690) |                 | 8,000<br>(552) |

# Working Pressure psi/bar - Hydraulic 4:1 Applications

| Working Pressure psi [bar] |                 |                |                |       |      |                 |                    |      |
|----------------------------|-----------------|----------------|----------------|-------|------|-----------------|--------------------|------|
|                            | -08             | -12            | -16            | -20   | size | Dimensions<br>← | Fittings           | Page |
|                            | 1/2             | 3/4            | 1              | 1 1/4 | inch | Hose Type<br>↓  |                    |      |
|                            | 12.7            | 19             | 25.4           | 31.8  | mm   |                 |                    |      |
|                            | 12              | 20             | 25             | 32    | DN   |                 |                    |      |
|                            |                 |                |                |       |      | 2020N           | EX / RX            | A-18 |
|                            | 10,000<br>(690) |                |                |       |      | 2022N           | 8X / 3X / LX       | A-20 |
|                            | 7,500<br>(517)  |                | 5,510<br>(380) |       |      | 2380N           | 8X / LX / E4       | A-28 |
|                            |                 |                |                |       |      | 2388N           | 8X                 | A-30 |
|                            | 6,017<br>(415)  | 5,075<br>(350) | 4,060<br>(280) |       |      | 2390N           | 8X / 9X<br>E3 / E4 | A-32 |
|                            | 10,150<br>(700) |                |                |       |      | 2580N           | BL                 | A-40 |
|                            |                 |                |                |       |      | HP / HP8        | HP                 | A-56 |

# Hose Selection Chart

| Working Pressure psi [bar]  |                |                |                |              |                |              |              |  |
|---|----------------|----------------|----------------|--------------|----------------|--------------|--------------|--|
| Dimensions<br>→   | size           | -04            | -05            | -06          | -08            | -12          | -16          |  |
|   | inch           | 1/4            | 5/16           | 3/8          | 1/2            | 3/4          | 1            |  |
| Hose Type<br>↓  | mm             | 6.4            | 7.9            | 9.5          | 12.7           | 19           | 25.4         |  |
|   | DN             | 6              | 8              | 10           | 12             | 20           | 25           |  |
| <b>High Pressure Aramid Hose</b>                                    |                |                |                |              |                |              |              |  |
| 2022N-...10K  | 10,000 (690)   |                |                | 10,000 (690) | 10,000 (690)   |              |              |  |
| HCR   |                |                |                |              | 5,000 (345)    |              | 5,000 (345)  |  |
| 57CR  |                |                |                |              |                | 5,000 (345)  | 5,000 (345)  |  |
| <b>High Pressure Wire Hose, Polyamide</b>                           |                |                |                |              |                |              |              |  |
| 2380N   |                |                |                |              | 7,500 (517)    |              | 5,510 (380)  |  |
| 2388N   | 11,600 (800)   |                |                |              | 15,950 (1,115) |              |              |  |
| 2390N   | 7,107 (490)    |                |                | 6,450 (445)  | 6,017 (415)    | 5,075 (350)  | 4,060 (280)  |  |
| 2440N   |                |                |                | 12,688 (875) | 11,745 (810)   | 10,000 (690) | 8,120 (560)  |  |
| 2440N-...10K  |                |                |                |              |                |              | 10,000 (690) |  |
| 2448N   | 15,000 (1,035) |                |                |              | 12,688 (875)   |              |              |  |
| 2640N   |                |                |                |              |                | 12,500 (875) |              |  |
| <b>High Pressure Wire Hose, ChemJec</b>                             |                |                |                |              |                |              |              |  |
| 2440M   | 12,500 (875)   | 10,000 (690)   | 10,000 (690)   | 10,000 (690) |                |              |              |  |
| 2448M   | 15,000 (1,035) | 15,000 (1,035) | 15,000 (1,035) |              |                |              |              |  |
| 2640M   |                |                |                |              | 15,000 (1,035) |              |              |  |
| <b>BOP and Hotline Hoses</b>  |                |                |                |              |                |              |              |  |
| 2390N   | 7,107 (490)    |                |                |              | 6,017 (415)    | 5,075 (350)  | 4,060 (280)  |  |
| <b>Large Bore for Well Servicing (Black Eagle and Golden Eagle)</b> |                |                |                |              |                |              |              |  |
| 2240N   |                |                |                |              |                |              |              |  |
| 2248N   |                |                |                |              |                |              |              |  |
| 2440N   |                |                |                |              |                |              |              |  |
| 2448N   |                |                |                |              |                |              |              |  |
| 2580N-32V80   |                |                |                |              |                |              |              |  |
| 2640N   |                |                |                |              |                |              |              |  |
| 2640N-...15K  |                |                |                |              |                |              |              |  |
| 2648N-32V80   |                |                |                |              |                |              |              |  |
| 2580M   |                |                |                |              |                |              |              |  |
| 2640M   |                |                |                |              |                |              |              |  |

# Working Pressure - Oil & Gas 4:1 Applications

| Working Pressure psi [bar] |       |                |                |                |      |              |             |               |
|----------------------------|-------|----------------|----------------|----------------|------|--------------|-------------|---------------|
|                            | -20   | -24            | -32            | -48            | size | Dimensions   | Fittings    | Page          |
|                            | 1 1/4 | 1 1/2          | 2              | 3              | inch | ←            |             |               |
|                            | 31.8  | 38.1           | 50.8           | 76             | mm   | Hose Type    |             |               |
|                            | 32    | 40             | 50             | 78             | DN   | ↓            |             |               |
|                            |       |                |                |                |      | 2022N-...10K | 8X/3X/LX    | A-18          |
|                            |       |                |                |                |      | HCR          | HV          | A-52          |
|                            |       |                |                |                |      | 57CR         | CR          | A-54          |
|                            |       |                |                |                |      | 2380N        | 8X/LX/E4    | A-28          |
|                            |       |                |                |                |      | 2388N        | 8X/BS       | A-30          |
|                            |       |                |                |                |      | 2390N        | 8X/9X/E3/E4 | A-32          |
|                            |       |                |                |                |      | 2440N        | 8X/LX       | A-36          |
|                            |       |                |                |                |      | 2440N-...10K | LX          | A-38          |
|                            |       |                |                |                |      | 2448N        | 8X/LX       | A-38          |
|                            |       |                |                |                |      | 2640N        | 5X          | A-44          |
|                            |       |                |                |                |      | 2440M        | 8X/LX       | A-68          |
|                            |       |                |                |                |      | 2448M        | UX/LX       | A-68          |
|                            |       |                |                |                |      | 2640M        | 5X          | A-68          |
|                            |       |                |                |                |      | 2390N        | 8X/9X/E3/E4 | A-32          |
|                            |       |                | 3,000 (207)    | 5,000 (345)    |      | 2240N        | TX/S6       | A-62,<br>A-64 |
|                            |       |                | 5,000 (345)    |                |      | 2248N        | S6          | A-64          |
|                            |       |                |                | 10,000 (690)   |      | 2440N        | LX          | A-62          |
|                            |       |                | 5,000 (345)    |                |      | 2448N        | 5X          | A-60          |
|                            |       |                | 10,000 (690)   |                |      | 2580N-32V80  | 5X          | A-60          |
|                            |       | 10,000 (690)   |                |                |      | 2640N        | 5X          | A-58          |
|                            |       | 15,000 (1,035) |                | 15,000 (1,035) |      | 2640N-...15K | 5X          | A-58          |
|                            |       |                | 15,000 (1,035) |                |      | 2648N-32V80  | CX          | A-60          |
|                            |       |                | 10,000 (690)   |                |      | 2580M        | 5X          | A-66          |
|                            |       | 10,000 (690)   |                |                |      | 2640M        | 5X          | A-66          |

**A** Hose

Fittings

**B**

Adapters & Valves

**C**

Quick Couplings

**D**

Accessories

**E**

General Technical

**F**

# 2020N- High Pressure Hose



## Features & Applications

- Very small hose I.D.
- Very flexible hose
- High pressure services where very small hose O.D. is required
- Versatile usage in mini-hydraulic and gas applications
- Measuring and diagnostic systems

## Markets

- Hydraulics



| Part Number  | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |      | Weight |      | Fitting Series |        |
|--------------|--------------|--------------|------|--------------|------|--------------------------|-------|---------------------|------|--------|------|----------------|--------|
|              |              | DN           | inch | inch         | mm   | psi                      | bar   | inch                | mm   | lbs/ft | kg/m |                |        |
| #            |              |              |      |              |      |                          |       |                     |      |        |      |                |        |
| 2020N-012R30 | Black        | 2            | 5/64 | 2.0          | 0.20 | 4.9                      | 6,890 | 475                 | 0.79 | 20     | 0.01 | 0.02           | EX     |
| 2020N-02V30  | Black        | 3            | 1/8  | 3.2          | 0.24 | 6.0                      | 5,800 | 400                 | 1.20 | 30     | 0.02 | 0.02           | EX/RX* |

## Construction

Core Tube: Polyamide

Reinforcement: One braided layer of high tensile strength synthetic fiber

Cover: Polyamide, -012 pin-pricked on request

## Options

Colors: ● Black

## Temperature Range

-012 sizes: -40°F to +180°F (-40°C to +82.2°C)

-02 sizes: -40°F to +212°F (-40°C to +100°C) with petroleum or synthetic hydraulic fluids and gases

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- Not for use in airless paint spray or solvent spraying applications. Not a static dissipative hose.
- Hose must be pin-pricked for gas service.
- \*RX Series fittings are field assembled. Contact the division for more information.
- Refer to page F-26, paragraph 5 of "Notes on Chemical Resistance" section for gas applications.



### WARNING


This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# 2020N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br><b>#</b>   | 2020N-012R30  | 2020N-02V30  |
|---|---|--|
| Fitting Part Numbers<br> | 101EX-2-012<br>101EX-4-012<br>106EX-4-012<br>1C9EX-6-012<br>1C9EX-8-012 | 106EX-4-02<br>1C9EX-8-02<br>201RX-2-2C<br>206RX-4-2C<br>2TURX-4-2C<br>601EX-2-2C |

## Accessories

Technical details available in Section E.

| Hose Part   | Accessory Part Numbers                                      |
|-------------|---|
| <b>#</b>    | Bend Restrictor   |
| 2020N-02V30 | MBR003 (w/ reusable fittings)<br>MBR004 (w/ crimp fittings) |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2022N- High Pressure Hose



## Features and Applications

- Flexible and lightweight with excellent pressure capabilities
- Meets or exceeds SAE J517/J343 for less than 50 microamps leakage under 75000 volts per foot\*
- Smooth bore for improved flow rate and low pressure drop
- ISO 13628-5 “Specification for Subsea Production Control Umbilicals”, Section 7.9 Hose construction
- Long-length hose and hose umbilicals requiring lightweight construction
- Oilfield pressure control devices
- Offshore oil applications (control fluids, acidizing, methanol injection, well stimulation)
- High pressure hydraulics, pneumatics and lubricating oils
- High pressure tools and jacks
- Test apparatus

## Markets



- Oil & Gas

| Part Number     | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |        | Minimum Bend Radius |      | Weight |      | Fitting Series |    |
|-----------------|--------------|--------------|------|--------------|------|--------------------------|--------|---------------------|------|--------|------|----------------|----|
|                 |              | DN           | inch | inch         | mm   | psi                      | bar    | inch                | mm   | lbs/ft | kg/m |                |    |
| #               |              |              |      |              |      |                          |        |                     |      |        |      |                |    |
| 2022N-04V91-10K | Black        | 6            | 1/4  | 6.4          | 0.54 | 13.8                     | 10,000 | 690                 | 3.94 | 100    | 0.09 | 0.14           | 8X |
| 2022N-06V91-10K | Black        | 10           | 3/8  | 9.5          | 0.75 | 19.0                     | 10,000 | 690                 | 3.94 | 100    | 0.16 | 0.24           | 3X |
| 2022N-08V91-10K | Black        | 12           | 1/2  | 12.7         | 0.97 | 23.2                     | 10,000 | 690                 | 3.94 | 100    | 0.23 | 0.34           | LX |



- Hydraulics

|              |        |   |     |     |      |      |        |     |      |     |      |      |    |
|--------------|--------|---|-----|-----|------|------|--------|-----|------|-----|------|------|----|
| *2022N-04V15 | Orange | 6 | 1/4 | 6.4 | 0.54 | 13.8 | 10,000 | 690 | 3.94 | 100 | 0.09 | 0.14 | 8X |
| 2022N-04V10  | Black  | 6 | 1/4 | 6.4 | 0.54 | 13.8 | 10,000 | 690 | 3.94 | 100 | 0.09 | 0.14 | 8X |

## Construction

Core Tube:

V1x -Polyamide 11

V91- Polyamide 11, methanol washed

Reinforcement: High tensile aramid fiber

Cover:

V91- Sea water resistant Polyurethane, pin-pricked on request to allow adequate venting of permeable fluids

V1x- Polyurethane, pin-pricking not available on V15

## Temperature Range

V91: -40°C to +55°C [-40°C to 131°F]

V1x: -40°C to +80°C [-40°C to 176°F]

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- Refer to page F-26, paragraph 5 of “Notes on Chemical Resistance” section for gas applications.

## Options

Colors: ● Black

● Orange




### WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2022N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br>#   | 2022N-04V91-10K   | 2022N-06V91-10K   | 2022N-08V91-10K   | 2022N-04V10<br>2022N-04V15  |
|--|---|---|---|---|
| Fitting Part<br>Numbers<br> | 1018X-4-04C<br>1018X-6-04C<br>1068X-4-04C<br>1068X-6-04C<br>1AY8X-6-04C | 1063X-6-06C<br>1C93X-14-06C<br>1C93X-16-06C<br>1923X-8-06C<br>1063X-8-06C | 106LX-8-08C<br>192LX-8-08C<br>1C9LX-16-08C<br>101LX-8-08C | 1018X-4-04<br>1018X-4-04C<br>1018X-6-04<br>1018X-6-04C<br>1068X-4-04<br>1068X-4-04C<br>1068X-6-04<br>1068X-6-04C<br>1AY8X-6-04<br>1AY8X-6-04C |

## Accessories

Technical details available in Section E.

| Hose Part   | Accessory Part Numbers |
|-------------|------------------------|
| #           | Bend Restrictor        |
| 2022N-04V10 | HG2022N-4              |
| 2022N-04V15 | HG2022N-4              |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2240D/2248D- High Pressure Tube Cleaning Hose



## Features and Accessories

- 20% smaller O.D. than existing competitor products
- High pressure service for tube cleaning applications, such as, heat exchanger tube cleaning in the chemical and refining industries
- Flexible lance at working pressures of 13,000 psi and above

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number     | Jacket Color | Nominal I.D. |      |     | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-----------------|--------------|--------------|------|-----|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|                 |              | DN           | inch | mm  | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #               |              |              |      |     |              |      |                          |       |                     |     |        |      |                |
| 2240D-02V33-TC  | Green        | 3            | 1/8  | 3.2 | 0.28         | 7.1  | 15,950                   | 1,100 | 2.36                | 60  | 0.05   | 0.07 | TX             |
| 2240D-025V33-TC | Green        | 4            | 5/32 | 4.0 | 0.30         | 7.7  | 17,400                   | 1,200 | 2.95                | 75  | 0.07   | 0.10 | TX/AX          |
| 2240D-03V33-TC  | Green        | 5            | 3/16 | 4.8 | 0.37         | 9.5  | 15,955                   | 1,100 | 3.74                | 95  | 0.09   | 0.13 | TX             |
| 2240D-04V33-TC  | Green        | 6            | 1/4  | 6.4 | 0.46         | 11.6 | 15,950                   | 1,100 | 4.33                | 110 | 0.13   | 0.20 | TX             |
| 2248D-025V32-TC | Blue         | 4            | 5/32 | 4.0 | 0.31         | 7.9  | 21,750                   | 1,500 | 2.95                | 75  | 0.07   | 0.11 | TX             |
| 2248D-03V32-TC  | Blue         | 5            | 3/16 | 4.8 | 0.37         | 9.5  | 20,300                   | 1,400 | 3.74                | 95  | 0.09   | 0.14 | TX             |
| 2248D-05V33-TC  | Green        | 8            | 5/16 | 7.9 | 0.53         | 13.5 | 15,000                   | 1,034 | 4.72                | 120 | 0.17   | 0.25 | TX             |

## Construction

Core Tube: Polyoxymethylene  
 Reinforcement: Two spiral layers of high tensile steel wire  
 Cover: Polyamide

## Temperature Range

+14°F to +158°F (-10°C to +70°C)

## Options

Colors: Blue  
 Green

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- -TC Tough Cover offers improved abrasion resistance over the standard.




### WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2240D/2248D- Fittings and Accessories

## Fittings

NPT max. working pressure: 15,000 psi. Technical details available in Section B.

| Hose Part #   | 2240D-02V33-TC                                 | 2240D-025V3x-TC                        | 2240D-03V3x-TC                | 2240D-04V3x-TC                               |
|---|--|--|-------------------------------|--|
| Fitting Part Numbers<br> | 101TX-1-02-PL<br>101TX-2-02-PL                 | 601AX-1-2A<br>601AX-2-2A<br>606AX-4-2A | 101TX-2-03-PL<br>101TX-6-03-W | 101TX-4-04-PL                                |
|   | 2240D-05V36-TC                                 | 2248D-025V32-TC                        | 2248D-03V32-TC                | 2248D-05V33-TC                               |
|   | 101TX-4-05-PL<br>101TX-6-05-PL<br>*1AYTX-8-05W | 1AYTX-6-025W<br>1YHTX-4-025-PL         | 1AYTX-6-03W<br>1YHTX-6-03-PL  | 101TX-4-05-PL<br>101TX-6-05-PL<br>1AYTX-8-05 |

\* Contact Parker for special requests of stainless steel.

## Accessories

Technical details available in Section E.

| Hose Part #                  | Accessory Part Numbers |                 | Hose Stop |
|------------------------------|------------------------|-----------------|-----------|
|                              | Containment Grip       | Bend Restrictor |           |
| 2240D-03V3x                  | MCG001SS<br>MCGHS10-15 | N/A             | N/A       |
| 2240D-04V3x                  | MCG001SS<br>MCGHS10-15 | MBR008          | N/A       |
| 2240D-05V36                  | MCG001SS<br>MCGHS10-15 | N/A             | N/A       |
| 2240D-025V3x<br>2248D-025V32 | N/A                    | N/A             | AH-025S   |
| 2240D-03V3x<br>2248D-03V32   | N/A                    | N/A             | AH-03S    |
| 2240D-04V3x                  | N/A                    | N/A             | AH-04S    |
| 2240D-05V36                  | N/A                    | N/A             | AH-05S    |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2245N- High Pressure Hose



## Features and Applications

- High pressure hydraulic and industrial applications
- Excellent chemical resistance due to the polyamide core tube
- High pressure service for general industrial and mobile hydraulic applications, as well as with gases
- Use with a wide variety of fluids due to the polyamide core tube.
- Performance exceeds SAE 100R9.

## Markets

- Hydraulics



| Part Number | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |     | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|------|--------------|------|--------------------------|-----|---------------------|-----|--------|------|----------------|
|             |              | DN           | inch | mm   | inch         | mm   | psi                      | bar | inch                | mm  | lbs/ft | kg/m |                |
| #           |              |              |      |      |              |      |                          |     |                     |     |        |      |                |
| 2245N-04V00 | Black        | 6            | 1/4  | 6.3  | 0.50         | 12.7 | 6,525                    | 450 | 2.76                | 70  | 0.17   | 0.25 | NX             |
| 2245N-08V30 | Black        | 12           | 1/2  | 12.7 | 0.83         | 21.0 | 5,080                    | 350 | 6.50                | 165 | 0.35   | 0.52 | 9X             |
| 2245N-12V30 | Black        | 20           | 3/4  | 19.6 | 1.14         | 28.9 | 4,350                    | 300 | 9.45                | 240 | 0.62   | 0.92 | NX             |
| 2245N-16V30 | Black        | 25           | 1    | 25.4 | 0.99         | 25.2 | 3,988                    | 275 | 11.0                | 280 | 0.77   | 1.15 | NX             |

## Construction

Core Tube: Polyamide  
 Reinforcement: Two spiral layers, and one braided layer of high tensile steel wire

Covers: V0x - Polyurethane  
 V3x - Polyamide

## Temperature Range

-40°F to +212°F (-40°C to +100°C) for petroleum or synthetic hydraulic fluids

## Notes

- Refer to page F-26, paragraph 5 of "Notes on Chemical Resistance" section for gas applications.

## Options

Colors: ● Black




### WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2245N- Fittings

## Fittings

Technical details available in Section B.

| Hose Part #   | 2245N-04V0x  | 2245N-08V3x   | 2245N-12V3x  | 2245N-16V3x  |
|---|--|---|--|--|
| Fitting Part Numbers<br> | 601NX-2-4*<br>601NX-4-4*<br>602NX-4-4*<br>606NX-4-4C<br>606NX-6-4C<br>6AYNX-6-4C | 1069X-8-08<br>1069X-8-08C<br>1C99X-16-08<br>1D29X-16-08 | 101NX-12-12<br>106NX-12-12<br>1D2NX-25-12<br>1U0NX-16-12 | 101NX-16-16<br>106NX-16-16<br>106NX-20-16<br>192NX-20-16 |

\* Prolance

OBSOLETE



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2380N/2380N...W- High Pressure Hose



## Features and Applications

- Low volumetric expansion
- Available in long lengths
- Replaces high pressure, rigid tubing where vibration and routing constraints are issues
- High pressure service in construction and shipbuilding industries
- General industrial cleaning applications

## Certifications

- DIN EN1829-2 compliant, except type -04V66. -04V66 is compatible with phosphate ester fluids and is qualified for use in high pressure hydraulic applications

## Markets

- Waterblast



| Part Number  | Jacket Color | Nominal I.D. |      |     | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |    | Weight |      | Fitting Series |
|--------------|--------------|--------------|------|-----|--------------|------|--------------------------|-------|---------------------|----|--------|------|----------------|
|              |              | DN           | inch | mm  | inch         | mm   | psi                      | bar   | inch                | mm | lbs/ft | kg/m |                |
| #            |              |              |      |     |              |      |                          |       |                     |    |        |      |                |
| 2380N-05V06W | Yellow       | 8            | 5/16 | 7.9 | 0.62         | 15.8 | 14,500                   | 1,000 | 3.54                | 90 | 0.24   | 0.35 | KY             |

## Markets

- Hydraulics



| Part Number | Jacket Color | Nominal I.D. |      |     | Maximum O.D. |      | Maximum Working Pressure |     | Minimum Bend Radius |    | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|-----|--------------|------|--------------------------|-----|---------------------|----|--------|------|----------------|
|             |              | DN           | inch | mm  | inch         | mm   | psi                      | bar | inch                | mm | lbs/ft | kg/m |                |
| #           |              |              |      |     |              |      |                          |     |                     |    |        |      |                |
| 2380N-04V66 | Yellow       | 6            | 1/4  | 6.4 | 0.50         | 12.7 | 13,200                   | 910 | 2.80                | 70 | 0.18   | 0.27 | NX             |

## Construction

Core Tube: Polyamide

Reinforcement: Two closed spiral layers and two open spiral layers of high tensile steel wire

Cover: V0x - Polyurethane  
V66 - Polyamide

## Temperature Range

+14°F to +158°F (-10°C to +70°C)

-04V66: -40°F to +212°F (-40°C to +100°C) in hydraulic applications

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.

## Options

Colors:  Yellow



### WARNING


This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# 2380N/2380N...W- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2380N-05V0xW   | 2380N-04V66   |
|---|--|---|
| Fitting Part Numbers<br> | 101KY-4-05<br>101KY-6-05<br>1AYKY-8-05<br>1Y4KY-9-05 | 601NX-4-4<br>606NX-4-4C<br>606NX-6-4C<br>6AYNX-6-4C |

## Accessories

Technical details available in Section E.

| Hose Part #  | Accessory Part Numbers    |               |              |                        |                 |           |
|--------------|---------------------------|---------------|--------------|------------------------|-----------------|-----------|
|              | Heavy Duty Abrasion Cover | Cover Sleeves | Spring Guard | Containment Grip       | Bend Restrictor | Hose Stop |
| 2380N-04V66  | MHDC010                   | 508-J-500-10  | N/A          | MCG001SS<br>MCGHS10-15 | N/A             | N/A       |
| 2380N-05V0xW | MHDC012                   | 510-A-500-12  | N/A          | MCG001SS<br>MCGHS10-15 | MBR012          | AH-06S    |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2380N- High Pressure Hose

## Features and Applications



- Small diameters available
- Low volumetric expansion
- Available in long lengths and twinline construction
- Replaces high pressure, rigid tubing where vibration and routing constraints are issues
- Used for hydraulic controls and test systems with synthetic fluids
- Portable hydraulic tools
- -16 BOP hose - hydraulic systems - subsea control lines for BOP systems and long-length hot lines

## Markets

- Oil & Gas
- Hydraulics



| Part Number  | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |        | Minimum Bend Radius |       | Weight |      | Fitting Series |    |
|--------------|--------------|--------------|------|--------------|------|--------------------------|--------|---------------------|-------|--------|------|----------------|----|
|              |              | DN           | inch | inch         | mm   | psi                      | bar    | inch                | mm    | lbs/ft | kg/m |                |    |
| #            |              |              |      |              |      |                          |        |                     |       |        |      |                |    |
| 2380N-025V10 | Black        | 4            | 5/32 | 4.0          | 0.38 | 9.7                      | 10,875 | 750                 | 2.17  | 55     | 0.11 | 0.16           | 8X |
| 2380N-04V00* | Black        | 6            | 1/4  | 6.4          | 0.52 | 13.3                     | 10,150 | 700                 | 2.80  | 70     | 0.18 | 0.27           | 8X |
| 2380N-04V02* | Blue         | 6            | 1/4  | 6.4          | 0.52 | 13.3                     | 10,150 | 700                 | 2.80  | 70     | 0.18 | 0.27           | 8X |
| 2380N-04V04* | Red          | 6            | 1/4  | 6.4          | 0.52 | 13.3                     | 10,150 | 700                 | 2.80  | 70     | 0.18 | 0.27           | 8X |
| 2380N-04V06* | Yellow       | 6            | 1/4  | 6.4          | 0.53 | 13.4                     | 10,150 | 700                 | 2.80  | 70     | 0.18 | 0.27           | 8X |
| 2380N-05V00* | Black        | 8            | 5/16 | 7.9          | 0.62 | 15.8                     | 9,060  | 625                 | 3.54  | 90     | 0.24 | 0.35           | LX |
| 2380N-16V12  | Blue         | 25           | 1    | 25.4         | 1.45 | 36.8                     | 5,510  | 380                 | 11.42 | 290    | 1.00 | 1.49           | E4 |
| 2380N-16V13  | Green        | 25           | 1    | 25.4         | 1.45 | 36.8                     | 5,510  | 380                 | 11.42 | 290    | 1.00 | 1.49           | E4 |
| 2380N-16V16  | Yellow       | 25           | 1    | 25.4         | 1.45 | 36.8                     | 5,510  | 380                 | 11.42 | 290    | 1.00 | 1.49           | E4 |

\* Not qualified for subsea applications

## Construction

Core Tube: Polyamide (V00)

Reinforcement: Two closed spiral layers and two open spiral layers of high tensile steel wire

Cover: V0x — Polyurethane  
V1x — Polyurethane

## Options

Colors: Black Blue Green  
 Red Yellow

## Temperature Range

-40°F to +212°F (-40°C to +100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2380N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2380N-04V0x  | 2380N-025V10   | 2380N-05V00  |   |
|---|--|--|--|---|
| Fitting Part Numbers<br> | 1018X-4-04<br>1018X-4-04C<br>1018X-6-04<br>1018X-6-04C<br>1C38X-8-04<br>1D98X-4-04<br>1D98X-4-04C<br>1AY8X-6-04<br>1928X-4-04<br>1928X-4-04C<br>1068X-4-04 | 1068X-4-04C<br>1068X-6-04<br>1068X-6-04C<br>1028X-4-04<br>1028X-4-04C<br>15Y8X-6-04C<br>1C98X-8-04C<br>1MB8X-6-4 | 1018X-2-025<br>1018X-4-025<br>1068X-4-025<br>1068X-4-025C-SUBSEA | 601LX-4-5C<br>601LX-6-5<br>601LX-6-5C<br>6AYLX-8-5C<br>606LX-6-5C<br>606LX-8-5C |
|   | 2380N-16V1x  |  |  |   |
|   | 106E4-16-16C<br>137E4-16-16C-411<br>139E4-16-16C-411<br>19GE4-16-16C<br>19GE4-24-16C   | 19ME4-24-16C<br>19ME4-16-16C<br>19WE4-16-16C<br>19WE4-24-16C   |  |   |

## Accessories

Technical details available in Section E.

| Hose Part #  | Accessory Part Numbers    |               |              |                        |                    |
|--------------|---------------------------|---------------|--------------|------------------------|--------------------|
| #            | Heavy Duty Abrasion Cover | Cover Sleeves | Spring Guard | Containment Grip       | Bend Restrictor    |
| 2380N-025V10 | N/A                       | N/A           | N/A          | N/A                    | MBR008             |
| 2380N-04V0x  | MHDC012                   | 510-A-500-12  | MSG2106      | MCG001SS<br>MCGHS10-15 | MBR010<br>*HG8X-04 |

\*Rigid polymer Ø1-3/16" x 5-1/8" length



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2388N/2388N...W- High Pressure Hose



## Features and Applications

- Up to 35% lighter weight for a 20 meter hose assembly when compared to rubber hose
- High kink resistance
- Waterblast hoses DIN EN1829-2 compliant
- Hoses indicated for waterblast applications intended for construction, ship building and general industrial cleaning
- Particularly well-suited for the removal of dirt, rust and paint from the surface of ship decks, tanks, concrete and asphalt
- Grease injection hose
- High flexibility for hydraulic tools, rescue equipment, straightening benches and clamps

## Markets

- Waterblast
- Hydraulics



## Certifications

- DIN EN1829-2 compliant

| Part Number  | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|--------------|--------------|--------------|------|------|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|              |              | DN           | inch | mm   | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #            |              |              |      |      |              |      |                          |       |                     |     |        |      |                |
| 2388N-04V13W | Green        | 6            | 1/4  | 6.4  | 0.53         | 13.4 | 18,560                   | 1,280 | 1.58                | 40  | 0.20   | 0.30 | KY             |
| 2388N-04V14W | Red          | 6            | 1/4  | 6.4  | 0.53         | 13.4 | 18,560                   | 1,280 | 1.58                | 40  | 0.20   | 0.30 | KY             |
| 2388N-08V12  | Blue         | 12           | 1/2  | 12.7 | 0.91         | 23.1 | 15,950                   | 1,100 | 4.72                | 120 | 0.54   | 0.80 | BS             |
| 2388N-08V13  | Green        | 12           | 1/2  | 12.7 | 0.91         | 23.1 | 15,950                   | 1,100 | 4.72                | 120 | 0.54   | 0.80 | BS             |
| 2388N-08V14  | Red          | 12           | 1/2  | 12.7 | 0.91         | 23.1 | 15,950                   | 1,100 | 4.72                | 120 | 0.54   | 0.80 | BS             |

## Construction

Core Tube: Polyamide

Reinforcement: Two spiral layers and two open spiral layers of high tensile steel wire

Cover: Polyurethane

## Options

Colors: Green Red  
 Blue

## Temperature Range

Waterblast hoses: 14°F to +158°F (-10°C to +70°C)

Hydraulic hose: -40°F to +212°F (-40°C to +100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2388N/2388N...W Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br><b>#</b>   | 2388N-04V1xW  | 2388N-08V1x   |
|---|---|---|
| Fitting Part Numbers<br> | 101KY-4-04<br>101KY-6-04<br>1AYKY-6-04<br>1AYKY-6-04C | 1AYBS-11-08<br>1AYBS-11-08C<br>101BS-8-08<br>101BS-8-08C<br>1C9BS-16-08<br>1C9BS-16-08C |

## Accessories

Technical details available in Section E.

| Hose Part    | Accessory Part Numbers    |               |           |                  |
|--------------|---------------------------|---------------|-----------|------------------|
| <b>#</b>     | Heavy Duty Abrasion Cover | Cover Sleeves | Hose Stop | Containment Grip |
| 2388N-08V1x  | MHDC018                   | 216-200-18    | AH-08S    | MCGHS 30-40      |
| 2388N-04V1xW | MHDC012                   | 510-A-500-12  | NA        | NA               |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2390N- High Pressure Hose



## Features and Applications

- Low dimensional change under pressure resulting in excellent response times
- Smooth bore for low pressure drop
- Meets or exceeds the performance requirements of ISO 13628-5
- Low volumetric expansion hose
- Used for hydraulic systems - subsea control lines for BOP systems and long-length hot lines
- Portable hydraulic tools

## Markets

- Oil & Gas
- Hydraulics



| Part Number | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |     | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|------|--------------|------|--------------------------|-----|---------------------|-----|--------|------|----------------|
|             |              | DN           | inch | mm   | inch         | mm   | psi                      | bar | inch                | mm  | lbs/ft | kg/m |                |
| #           |              |              |      |      |              |      |                          |     |                     |     |        |      |                |
| 2390N-04V00 | Black        | 6            | 1/4  | 6.4  | 0.52         | 13.3 | 7,107                    | 490 | 2.76                | 70  | 0.17   | 0.25 | 8X/9X/E3       |
| 2390N-04V12 | Blue         | 6            | 1/4  | 6.4  | 0.52         | 13.3 | 7,107                    | 490 | 2.76                | 70  | 0.17   | 0.25 | 8X/9X/E3       |
| 2390N-04V16 | Yellow       | 6            | 1/4  | 6.4  | 0.52         | 13.3 | 7,107                    | 490 | 2.76                | 70  | 0.17   | 0.25 | 8X/9X/E3       |
| 2390N-06V13 | Green        | 10           | 3/8  | 9.5  | 0.71         | 18.1 | 6,450                    | 445 | 4.72                | 120 | 0.28   | 0.41 | 9X             |
| 2390N-08V12 | Blue         | 12           | 1/2  | 12.7 | 0.83         | 21.2 | 6,017                    | 415 | 5.91                | 150 | 0.36   | 0.54 | 9X/E3          |
| 2390N-08V13 | Green        | 12           | 1/2  | 12.7 | 0.83         | 21.2 | 6,017                    | 415 | 5.91                | 150 | 0.36   | 0.54 | 9X/E3          |
| 2390N-08V16 | Yellow       | 12           | 1/2  | 12.7 | 0.83         | 21.2 | 6,017                    | 415 | 5.91                | 150 | 0.36   | 0.54 | 9X/E3          |
| 2390N-16V12 | Blue         | 25           | 1    | 25.4 | 1.38         | 35.0 | 4,060                    | 280 | 11.02               | 280 | 0.79   | 1.17 | E4             |
| 2390N-16V13 | Green        | 25           | 1    | 25.4 | 1.38         | 35.0 | 4,060                    | 280 | 11.02               | 280 | 0.79   | 1.17 | E4             |
| 2390N-16V16 | Yellow       | 25           | 1    | 25.4 | 1.38         | 35.0 | 4,060                    | 280 | 11.02               | 280 | 0.79   | 1.17 | E4             |

## Construction

Core Tube: Polyamide

Reinforcement: Two closed spiral layers and two open spiral layers of high tensile steel wire

Cover: V1x - Seawater-resistant Polyurethane  
V00 - Polyurethane

## Temperature Range

-40°F to +212°F (-40°C to +100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.

## Options

Colors: Blue Yellow  
 Green Black




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2390N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2390N-04Vxx  | 2390N-06V13  | 2390N-08V1x   | 2390N-16V1x   |
|---|--|--|---|---|
| Fitting Part Numbers<br> | 1018X-6-4<br>1D98X-4-4<br>*106E3-4-4C<br>*106E3-6-4C<br>6069X-4-4C<br>6069X-6-4C<br>6AY9X-6-4C<br>*139E3-4-4C<br>*139E3-6-4C<br>*137E3-4-4C<br>*137E3-6-4C | 6019X-6-6<br>6019X-6-6C<br>6019X-8-6<br>6019X-8-6C<br>6AY9X-8-6C | 6019X-8-8<br>6019X-8-8C<br>6069X-8-8C<br>6AY9X-11-8C<br>*106E3-8-8C<br>*19WE3-8-8C<br>*19WE3-16-8C<br>*19ME3-8-8C<br>*19ME3-16-8C<br>*19GE3-8-8C<br>*19GE3-16-8C<br>*106E3-8-8C<br>*139E3-8-8C-411<br>*137E3-8-8C-411 | 6019X-16-16C<br>6069X-16-16C<br>6AY9X-16-16C<br>106E4-16-16C*<br>137E4-16-16C-411C*<br>139E4-16-16C-411C*<br>19GE4-16-16C*<br>19GE4-24-16C*<br>19ME4-16-16C*<br>19ME4-24-16C*<br>19WE4-16-16C*<br>19WE4-24-16C* |

\* Parkrimp II crimping compatible.

## Accessories

Technical details available in Section E.

| Hose Part # | Accessory Part Numbers    |               |                                    |
|-------------|---------------------------|---------------|------------------------------------|
|             | Heavy Duty Abrasion Cover | Cover Sleeves | Containment Grip                   |
| 2390N-04Vxx | MHDC010                   | 508-J-500-10  | MCG001SS                           |
| 2390N-08V1x | MHDC016                   | 216-200-18    | MCG005SS<br>MCGHS20-30             |
| 2390N-12V03 | NA                        | 220-200-22    | MCG002SS<br>MCG005SS<br>MCGHS20-30 |
| 2390N-16V1x | MHDC024                   | 220-200-22    | MCG003SS<br>MCGHS30-40             |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2440D/2448D- Ultra High Pressure Water Jetting Hose



## Features and Applications

- High pressure service for tube cleaning applications such as heat exchangers in the chemical and oil refining industries
- Ultra high pressure waterblast lances for the construction and shipbuilding industries, common industrial cleaning applications, and high pressure tube cleaning in petrochemical and power plants
- Hydrodemolition and removal of accumulated dirt and material from surfaces such as concrete, asphalt and tanks

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number     | Jacket Color | Nominal I.D. |      |     | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-----------------|--------------|--------------|------|-----|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|                 |              | DN           | inch | mm  | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #               |              |              |      |     |              |      |                          |       |                     |     |        |      |                |
| 2440D-02V37-TC  | Gray         | 3            | 1/8  | 3.2 | 0.31         | 7.9  | 30,000                   | 2,070 | 3.94                | 100 | 0.08   | 0.12 | LX             |
| 2440D-025V37-TC | Gray         | 4            | 5/32 | 4.0 | 0.41         | 10.5 | 31,900                   | 2,200 | 3.94                | 100 | 0.14   | 0.21 | LX             |
| 2440D-03V32-TC  | Blue         | 5            | 3/16 | 4.8 | 0.45         | 11.5 | 26,100                   | 1,800 | 5.12                | 130 | 0.19   | 0.28 | LX             |
| 2440D-04V32-TC  | Blue         | 6            | 1/4  | 6.4 | 0.49         | 12.5 | 23,780                   | 1,640 | 6.10                | 155 | 0.22   | 0.33 | LX             |
| 2440D-05V32-TC  | Blue         | 8            | 5/16 | 7.9 | 0.59         | 15.1 | 21,750                   | 1,500 | 6.89                | 175 | 0.30   | 0.44 | LX             |
| 2448D-025V35-TC | Orange       | 4            | 5/32 | 4.0 | 0.39         | 9.9  | 43,645                   | 3,010 | 4.72                | 120 | 0.15   | 0.22 | LX             |

## Construction

**Core Tube:** Polyoxymethylene

**Reinforcement:** Four spiral layers of maximum tensile steel wire

**Cover:** Polyamide

## Options

Colors: Blue  
 Gray  
 Orange

## Temperature Range

+14°F to +158°F (-10°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.



### WARNING


This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# 2440D/2448D- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2440D-02V3x-TC  | 2440D-025V37-TC  | 2440D-03V32-TC  |
|---|---|--|---|
| Fitting Part Numbers<br> | 1AYLX-6-02<br>1Y4LX-4-02<br>6YHLX-4-02-PL   | 6AYLX-6-2AC<br>6HYLX-4-2AC-PL<br>6HYLX-4-2AC-PL-LH<br>6HYLX-6-2AC-PL-LH<br>6Y4LX-4-2AC<br>6Y4LX-6-2AC<br>6YHLX-4-2AC-PL<br>6YHLX-4-2AC-PL-LH | 65YLX-6-3<br>65YLX-6-3C<br>66YLX-4-3<br>66YLX-4-3C<br>6AYLX-6-3<br>6AYLX-6-3C<br>6HYLX-4-3C-PL<br>6HYLX-4-3C-PL-LH<br>6HYLX-6-3C-PL<br>6HYLX-6-3C-PL-LH<br>6Y4LX-9-3C<br>6YHLX-4-3C-PL<br>6YHLX-4-3C-PL-LH<br>6YHLX-6-3C-PL<br>6YHLX-6-3C-PL-LH |
|   | 2440D-04V32-TC  | 2440D-05V32-TC   | 2448D-025V3x-TC   |
|   | 1AYLX-6-04C<br>1Y2LX-6-04<br>6HYLX-6-4C-PL<br>6HYLX-6-4C-PL-LH<br>6YHLX-6-4C-PL<br>6YHLX-6-4C-PL-LH | 6AYLX-8-5C<br>6HYLX-9-5C-PL-LH<br>6Y2LX-12-5C<br>6Y2LX-9-5C<br>6YHLX-9-5C-PL<br>6YHLX-9-5C-PL-LH<br>6Y2HX-9-5C-LONG<br>6Y2HX-9-5C-THD        | 6HYLX-4-2AC-PL<br>6HYLX-4-2AC-PL-LH<br>6YHLX-4-2AC-PL<br>6YHLX-4-2AC-PL-LH<br>6HYLX-6-2AC-PL-LH<br>6AYLX-6-2AC<br>6Y4LX-4-2AC<br>6Y4LX-6-2AC  |

## Accessories

Technical details available in Section E.

| Hose Part #                        | Accessory Part Numbers |                             |                           |               |
|------------------------------------|------------------------|-----------------------------|---------------------------|---------------|
| #                                  | Hose Stop              | Spring Guard & Crimp Sleeve | Heavy Duty Abrasion Cover | Cover Sleeves |
| 2448D-025V35-TC<br>2440D-025V37-TC | AH-04S                 | N/A                         | -                         | -             |
| 2440D-03V32-TC                     | AH-05S                 | MSG060<br>508-J-500-10      | -                         | -             |
| 2440D-04V32-TC                     | AH-05S                 | N/A                         | MHDC010                   | 508-J-500-10  |
| 2440D-05V32-TC                     | AH-06S                 | N/A                         | PVC-BLUE-012              | 510-A-500-12  |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2440N- Ultra High Pressure Waterblast Hose



## Features and Applications

- High pressure, low volumetric expansion hose
- Flexible, chemical-resistant, lightweight alternative to steel pipe and rubber hose
- Ultra high pressure service for the construction and shipbuilding industries and general industrial cleaning applications
- Mainly used in hydrodemolition and to remove different kinds of dirt accumulation, or materials from various surfaces
- Waterjet technology delivery hose

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number    | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |        | Minimum Bend Radius |       | Weight |        | Fitting Series |    |
|----------------|--------------|--------------|------|--------------|------|--------------------------|--------|---------------------|-------|--------|--------|----------------|----|
|                |              | inch         | mm   | inch         | mm   | psi                      | bar    | inch                | mm    | lbs/ft | kg/m   |                |    |
| #              |              |              |      |              |      |                          |        |                     |       |        |        |                |    |
|                |              | DN           | inch | mm           | inch | mm                       | psi    | bar                 | inch  | mm     | lbs/ft | kg/m           |    |
| 2440N-04V32    | Blue         | 6            | 1/4  | 6.4          | 0.51 | 13.0                     | 20,300 | 1,400               | 6.10  | 155    | 0.21   | 0.31           | LX |
| 2440N-06V32    | Blue         | 10           | 3/8  | 9.5          | 0.77 | 19.5                     | 20,300 | 1,400               | 7.48  | 190    | 0.49   | 0.73           | LX |
| 2440N-08V32    | Blue         | 12           | 1/2  | 12.7         | 0.89 | 22.7                     | 20,300 | 1,400               | 7.87  | 200    | 0.63   | 0.94           | LX |
| 2440N-12V36    | Yellow       | 20           | 3/4  | 19.0         | 1.19 | 30.2                     | 14,500 | 1,000               | 9.84  | 250    | 0.98   | 1.46           | LX |
| 2440N-16V36    | Yellow       | 25           | 1    | 25.4         | 1.46 | 37.2                     | 13,050 | 900                 | 11.81 | 300    | 1.34   | 2.00           | LX |
| TOUGHJACKET™   |              |              |      |              |      |                          |        |                     |       |        |        |                |    |
| 2440N-08V30/12 | Blue         | 12           | 1/2  | 12.7         | 1.13 | 28.6                     | 20,300 | 1,400               | 7.90  | 200    | 0.81   | 1.21           | LX |

## Construction

Core Tube: Polyamide

Reinforcement: Four spiral layers of maximum tensile steel wire

Cover: Polyamide

## Options

Colors: Blue  
 Yellow

## Temperature Range

+14°F to +158°F (-10°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.



**TOUGHJACKET**

Built in abrasion resistance eliminates the need for an additional PVC sleeve and lightens the hose by up to 16%.




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2440N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2440N-04V32  | 2440N-06V32  | 2440N-08V3x<br>2440N-08V30/12                           |
|---|--|--|---|
| Fitting Part Numbers<br> | 6AYLX-6-4<br>6AYLX-6-4C<br>6AYLX-6-4C-SD<br>65YLX-6-4<br>65YLX-6-4C<br>6YHLX-6-4C<br>6YHLX-6-4C-LH<br>6HYLX-6-4C-PL<br>6HYLX-6-4C-PL-LH<br>6YHLX-6-4C-PL<br>6YHLX-6-4C-PL-LH | 1Y2LX-9-06C<br>1AYLX-8-06C   | 6AYLX-11-8C<br>6C9LX-16-8C<br>6Y2LX-12-8C<br>6Y2LX-9-8C |
|   | 2440N-12V3x  | 2440N-16V3x  |   |
|   | 601LX-12-12C<br>601LX-16-12C<br>606LX-16-12C<br>6AYLX-16-12C<br>6C9LX-25-12C<br>6Y2LX-16-12C   | 601LX-16-16C<br>606LX-16-16C<br>6AYLX-16-16C<br>6C9LX-30-16C<br>6HELX-16-16-HCL<br>6HNLX-16-16-HCL |   |

## Accessories

Technical details available in Section E.

| Hose Part      | Accessory Part Numbers    |               |                        |                        |
|----------------|---------------------------|---------------|------------------------|------------------------|
| #              | Heavy Duty Abrasion Cover | Cover Sleeves | Spring Guard           | Containment Grip       |
| 2440N-04V32    | PVC-BLUE-012              | 510-A-500-12  | MSG060<br>508-J-500-10 | N/A                    |
| 2440N-06V32    | MHDC016                   | 216-200-18    | N/A                    | N/A                    |
| 2440N-08V3x    | PVC-BLUE-018              | 216-200-18    | N/A                    | MCGHS20-30             |
| 2440N-08V30/12 | N/A                       | *P2529-85AL   | N/A                    | MCG002SS<br>MCGHS20-30 |
| 2440N-12V3x    | MHDC024                   | 220-200-22    | N/A                    | MCG002SS<br>MCGHS30-40 |
| 2440N-16V3x    | MHDC026                   | 520-A-500-26  | MSG4125                | MCG003SS<br>MCGHS30-40 |

\* Cover sleeve required on TOUGHJACKET hose assemblies.



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2440N/2448N- Ultra High Pressure Hose



## Features and Applications

- High pressure, low volumetric expansion hose
- Flexible, chemical-resistant, lightweight alternative to steel pipe and rubber hose
- V91 hoses are used in offshore applications such as, control fluids, acidizing, methanol injection and well stimulation

## Markets

- Oil & Gas
- Hydraulics



## Certifications

- ISO 13628-5 compliant

| Part Number  | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |        | Minimum Bend Radius |       | Weight |        | Fitting Series |    |
|--------------|--------------|--------------|------|--------------|------|--------------------------|--------|---------------------|-------|--------|--------|----------------|----|
|              |              | inch         | mm   | inch         | mm   | psi                      | bar    | inch                | mm    | lbs/ft | kg/m   |                |    |
| #            |              |              |      |              |      |                          |        |                     |       |        |        |                |    |
|              |              | DN           | inch | mm           | inch | mm                       | psi    | bar                 | inch  | mm     | lbs/ft | kg/m           |    |
| 2440N-06V91  | Black        | 10           | 3/8  | 9.5          | 0.77 | 19.5                     | 12,688 | 875                 | 7.48  | 190    | 0.49   | 0.73           | LX |
| 2440N-08V91* | Black        | 12           | 1/2  | 12.7         | 0.89 | 22.7                     | 11,745 | 810                 | 7.87  | 200    | 0.63   | 0.94           | LX |
| 2440N-12V91  | Black        | 20           | 3/4  | 19.0         | 1.19 | 30.2                     | 10,000 | 690                 | 9.84  | 250    | 0.98   | 1.46           | LX |
| 2440N-16V91  | Black        | 25           | 1    | 25.4         | 1.46 | 37.2                     | 8,120  | 560                 | 11.81 | 300    | 1.34   | 2.00           | LX |
| 2448N-04V91  | Black        | 6            | 1/4  | 6.4          | 0.54 | 13.7                     | 15,000 | 1,035               | 5.90  | 150    | 0.26   | 0.38           | 8X |
| 2448N-08V91  | Black        | 12           | 1/2  | 12.7         | 0.89 | 22.7                     | 12,688 | 875                 | 7.87  | 200    | 0.63   | 0.94           | LX |

## Construction

Core Tube: Methanol-washed PA11

Reinforcement: Four spiral layers of maximum tensile steel wire

Cover: PA12

## Options

Colors: ● Black

## Temperature Range

-40°F to +212°F (-40°C to +100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2440N/2448N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2440N-06V91   | 2440N-08V91<br>2448N-08V91   | 2440N-12V91  |
|---|---|--|--|
| Fitting Part Numbers<br> | 1AYLX-8-06C4462<br>106LX-8-06C4462<br>106LX-6-06C4462<br>1Y2LX-9-06C4462<br>1Y2LX-6-06C4462 | 106LX-8-08C<br>101LX-8-08C<br>1C9LX-16-08C<br>1Y2LX-12-08C   | 106LX-16-12C4462<br>1AYLX-16-12C4462<br>1Y2LX-12-12C4462<br>1Y2LX-16-12C4462 |
|   | 2440N-16V91   | 2448N-04V91  |  |
|   | 106LX-16-16C4462<br>1Y2LX-16-16C4462  | 1018X-4-04C<br>1018X-6-04C<br>1068X-4-04C<br>1068X-6-04C<br>1928X-4-04C<br>1AY8X-6-04C<br>1Y28X-6-04C<br>15Y8X-6-04C |  |

## Accessories

Technical details available in Section E.

| Hose Part                  | Accessory Part Numbers    |               |              |                        |
|----------------------------|---------------------------|---------------|--------------|------------------------|
| #                          | Heavy Duty Abrasion Cover | Cover Sleeves | Spring Guard | Containment Grip       |
| 2448N-04V91                | MHDC012                   | 510-A-500-12  | N/A          | MCG001SS<br>MCGHS10-15 |
| 2440N-06V91                | MHDC016                   | 216-200-18    | N/A          | MCGHS15-20             |
| 2440N-08V91<br>2448N-08V91 | N/A                       | N/A           | N/A          | MCGHS20-30             |
| 2440N-12V91                | MHDC024                   | 220-200-22    | N/A          | MCG002SS<br>MCGHS30-40 |
| 2440N-16V91                | MHDC026                   | 520-A-500-26  | MSG4125      | MCG003SS<br>MCGHS30-40 |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2580N- Ultra High Pressure Waterblast Hose



## Features and Applications

- Ultra high pressure service for the construction and shipbuilding industries
- General industrial cleaning applications
- Mainly used in hydrodemolition and to remove different kinds of dirt accumulation, or materials from various surfaces, such as those in tanks, from concrete, asphalt, etc.

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|------|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|             |              | DN           | inch | mm   | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #           |              |              |      |      |              |      |                          |       |                     |     |        |      |                |
| 2580N-06V12 | Blue         | 10           | 3/8  | 9.5  | 0.85         | 21.6 | 23,200                   | 1,600 | 3.74                | 95  | 0.63   | 0.94 | BL             |
| 2580N-08V12 | Blue         | 12           | 1/2  | 12.7 | 0.99         | 25.2 | 20,300                   | 1,400 | 5.91                | 150 | 1.19   | 0.80 | BL             |
| 2580N-12V13 | Green        | 20           | 3/4  | 19.0 | 1.29         | 32.8 | 17,400                   | 1,200 | 6.69                | 170 | 1.18   | 1.76 | BL             |

## Construction

Core Tube: Polyamide

Reinforcement: Four spiral layers and two open spiral layers of high tensile steel wire

Cover: Polyurethane

## Options

Colors: Blue  
 Green

## Temperature Range

+14°F to +158°F (-10°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2580N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br>#  | 2580N-06V12   | 2580N-08V12  | 2580N-12V1x                |
|---|---|--|----------------------------|
| Fitting Part Numbers<br> | 1AYBL-11-06<br>1AYBL-8-06<br>1C9BL-14-06<br>1C9BL-16-06 | 1AYBL-11-08<br>1AYBL-11-08C<br>1C9BL-14-08<br>1C9BL-16-08<br>1C9BL-25-08 | 101BL-12-12<br>1C9BL-25-12 |

## Accessories

Technical details available in Section E.

| Hose Part   | Accessory Part Numbers |
|-------------|------------------------|
| #           | Hose Stop              |
| 2580N-08V12 | AH-08S                 |
| 2580N-12V13 | AH-12S                 |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2640D- Ultra High Pressure Waterblast Hose



## Features and Applications

- Ultra high pressure service for the construction and shipbuilding industries
- General industrial cleaning applications
- Hydrodemolition

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number  | Jacket Color | Nominal I.D. |      |     | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|--------------|--------------|--------------|------|-----|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|              |              | DN           | inch | mm  | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #            |              |              |      |     |              |      |                          |       |                     |     |        |      |                |
| 2640D-025V35 | Orange       | 4            | 5/32 | 4.0 | 0.47         | 12.0 | 40,600                   | 2,800 | 5.51                | 140 | 0.20   | 0.29 | 2X             |
| 2640D-03V37  | Gray         | 5            | 3/16 | 4.8 | 0.51         | 12.9 | 36,230                   | 2,500 | 6.89                | 175 | 0.28   | 0.41 | 2X             |

## Construction

Core Tube: Polyoxymethylene

Reinforcement: Six spiral layers of maximum tensile steel wire

Cover: Polyamide

## Options

Colors:  Orange

 Gray

## Temperature Range

+14°F to +158°F (-10°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.



### WARNING


This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# 2640D- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br><b>#</b>   | 2640D-025V3x   | 2640D-03V3x  |
|---|--|--|
| Fitting Part Numbers<br> | 16Y2X-4-025<br>1AY2X-6-025<br>1AY2X-6-025C<br>1Y42X-4-025<br>1Y42X-4-025C<br>1Y42X-6-025<br>1Y42X-6-025C | 16Y2X-4-03<br>1922X-4-03<br>1AY2X-6-03<br>1AY2X-6-03C<br>1Y42X-4-03<br>1Y42X-4-03C<br>1Y42X-6-03<br>1Y42X-6-03C<br>1Y42X-9-03<br>1Y42X-9-03C |

## Accessories

Technical details available in Section E.

| Hose Part    | Accessory Part Numbers    |               |                        |           |
|--------------|---------------------------|---------------|------------------------|-----------|
| <b>#</b>     | Heavy Duty Abrasion Cover | Cover Sleeves | Containment Grip       | Hose Stop |
| 2640D-025V3x | MHDC010                   | 508-J-500-10  | MCGHS10-15             | NA        |
| 2640D-03V3x  | MHDC012                   | 510-A-500-12  | MCG001SS<br>MCGHS10-15 | AH-05S    |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2640N/2648N- Ultra High Pressure Hose



## Features and Applications

- Ultra high pressure service for the construction and shipbuilding industries
- General industrial cleaning applications
- V91 hoses are used in offshore applications such as, control fluids, acidizing, methanol injection and well stimulation
- V91 hose tested according to ISO 13628-5

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|------|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|             |              | DN           | inch | mm   | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #           |              |              |      |      |              |      |                          |       |                     |     |        |      |                |
| 2640N-08V32 | Blue         | 12           | 1/2  | 12.7 | 0.96         | 24.5 | 26,100                   | 1,800 | 11.42               | 290 | 0.92   | 1.37 | 5X             |
| 2640N-12V32 | Blue         | 20           | 3/4  | 19.0 | 1.30         | 33.0 | 20,300                   | 1,400 | 13.78               | 350 | 1.45   | 2.16 | 5X             |
| 2648N-12V32 | Blue         | 20           | 3/4  | 19.0 | 1.33         | 33.7 | 23,200                   | 1,600 | 13.78               | 350 | 1.53   | 2.28 | JX             |
| 2648N-16V32 | Blue         | 25           | 1    | 25.4 | 1.61         | 40.8 | 21,750                   | 1,500 | 15.75               | 400 | 2.08   | 3.10 | CX             |

## Markets

- Oil & Gas



| Part Number | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |     | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|------|--------------|------|--------------------------|-----|---------------------|-----|--------|------|----------------|
|             |              | DN           | inch | mm   | inch         | mm   | psi                      | bar | inch                | mm  | lbs/ft | kg/m |                |
| #           |              |              |      |      |              |      |                          |     |                     |     |        |      |                |
| 2640N-12V91 | Black        | 20           | 3/4  | 19.0 | 1.31         | 33.2 | 12,500                   | 875 | 13.78               | 350 | 1.45   | 2.16 | 5X             |

## Construction

Core Tube: Polyamide  
V91 - Methanol-washed PA11

Reinforcement: Six spiral layers of maximum tensile steel wire

Cover: V32 - Polyamide  
V91 - Plasticized Nylon 12

## Options

Colors:  Blue  Black

## Temperature Range

Waterblast hoses: -40°F to +212°F (-40°C to +100°C),  
+14°F to +158°F (-10°C to +70°C) for water

O&G hose: -40°F to +212°F (-40°C to +100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2640N/2648N- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2640N-08V32                  | *2640N-12V32                                    | 2640N-12V91                                |
|---|------------------------------|---|--|
| Fitting Part Numbers<br> | 6AY5X-11-8C                  | 6AY5X-16-12C<br>6C95X-25-12C<br>6Y25X-16-12C-SL | 6AY5X-16-12C-INC725<br>6Y25X-16-12C-INC725 |
|   | 2648N-12V32                  | 2648N-16V32                                     |  |
|   | 1AYJX-16-12W<br>1C9JX-25-12W | 1C9CX-30-16W<br>1AYCX-16-16                     |  |

\* Fittings listed are a grade of stainless not qualified with V91 hose. Use only on V32 hose assemblies.

## Accessories

Technical details available in Section E.

| Hose Part # | Accessory Part Numbers    |               |                  |
|-------------|---------------------------|---------------|------------------|
| #           | Heavy Duty Abrasion Cover | Cover Sleeves | Containment Grip |
| 2640N-08V32 | PVC-BLUE-018              | 416-400-16    | MCGHS20-30       |
| 2640N-12V32 | PVC-BLUE-024              | 220-200-22    | MCGHS30-40       |
| 2640N-12V91 | MHDC024                   | 220-200-22    | MCGHS30-40       |
| 2648N-12V32 | MHDC026                   | 520-A-500-26  | MCGHS30-40       |
| 2648N-16V32 | MHDC032                   | 532-500       | MCG003SS         |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2740D / 2748D / 2749D- Ultra High Pressure Waterblast Hose



## Features and Applications

- Small diameter, flexible hoses
- Ideal for tight routing applications
- Replaces high pressure steel tubing where flexibility and long lengths are important to minimize leak points
- Ultra high pressure waterblast lances for the construction and shipbuilding industries, common industrial cleaning applications, and high pressure tube cleaning in petrochemical and power plants
- Hydrodemolition
- Compression forming process (hydroforming) as a manufacturing procedure for truck and automotive industries
- Water Jet Cutting

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number    | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |        | Minimum Bend Radius |      | Weight |        | Fitting Series |      |
|----------------|--------------|--------------|------|--------------|------|--------------------------|--------|---------------------|------|--------|--------|----------------|------|
|                |              | DN           | inch | mm           | inch | mm                       | psi    | bar                 | inch | mm     | lbs/ft |                | kg/m |
| #              |              |              |      |              |      |                          |        |                     |      |        |        |                |      |
| 2740D-025V35   | Orange       | 4            | 5/32 | 4.0          | 0.50 | 12.6                     | 43,500 | 3,000               | 4.72 | 120    | 0.27   | 0.41           | 2X   |
| 2740D-03V35    | Orange       | 5            | 3/16 | 4.8          | 0.52 | 13.3                     | 40,600 | 2,800               | 7.87 | 200    | 0.32   | 0.47           | 2X   |
| 2740D-05V37    | Gray         | 8            | 5/16 | 7.9          | 0.68 | 17.3                     | 36,230 | 2,500               | 7.87 | 200    | 0.54   | 0.80           | 2X   |
| 2748D-05V35    | Orange       | 8            | 5/16 | 7.9          | 0.68 | 17.3                     | 40,600 | 2,800               | 9.05 | 230    | 0.56   | 0.83           | 2X   |
| 2749D-05V35    | Orange       | 8            | 5/16 | 7.9          | 0.68 | 17.3                     | 43,645 | 3,010               | 9.05 | 230    | 0.56   | 0.83           | 2X   |
| TOUGHJACKET™   |              |              |      |              |      |                          |        |                     |      |        |        |                |      |
| 2740D-03V34/15 | Orange       | 5            | 3/16 | 4.8          | 0.68 | 17.3                     | 40,600 | 2,800               | 7.87 | 200    | 0.39   | 0.58           | 2X   |
| 2740D-05V34/17 | Gray         | 8            | 5/16 | 7.8          | 0.84 | 21.3                     | 36,230 | 2,500               | 7.87 | 200    | 0.63   | 0.94           | 2X   |
| 2748D-05V34/15 | Orange       | 8            | 5/16 | 7.8          | 0.84 | 21.3                     | 40,600 | 2,800               | 9.06 | 230    | 0.63   | 0.94           | 2X   |

## Construction

Core Tube: Polyoxymethylene

Reinforcement: Six spiral layers of maximum tensile steel wire

Cover: Polyamide

## Options

- Colors: Orange  
 Gray

## Temperature Range

+14°F to +158°F (-10°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.



**TOUGHJACKET™**

Built in abrasion resistance eliminates the need for an additional PVC sleeve and lightens the hose by up to 16%.




## WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2740D / 2748D / 2749D- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br><b>#</b>   | 2740D-025V3x   | 2740D-03V3x<br>2740D-03V34/15  | 2740D-05V3x<br>2740D-05V32/17<br>2748D-05V32/15<br>2748D-05V35<br>2749D-05V35                |
|---|--|--|--|
| Fitting Part Numbers<br> | 1AY2X-6-025<br>1AY2X-6-025C<br>1Y42X-4-025<br>1Y42X-4-025C<br>1Y42X-6-025<br>1Y42X-6-025C<br>16Y2X-4-025 | 16Y2X-4-03<br>1922X-4-03<br>1AY2X-6-03<br>1AY2X-6-03C<br>1Y42X-4-03<br>1Y42X-4-03C<br>1Y42X-6-03<br>1Y42X-6-03C<br>1Y42X-9-03<br>1Y42X-9-03C | 1AY2X-10-05-SA<br>1AY2X-8-05-SA<br>1Y42X-6-05<br>1Y42X-9-05<br>1Y42X-9-05C<br>1Y42X-9-05-XLT |

## Accessories

Technical details available in Section E.

| Hose Part<br><b>#</b>                   | 2740D-025V3x | 2740D-03V3x            | 2748D-05V3x<br>2749D-05V3x | 2740D-05V3x            | 2740D-03V34/15 | 2740D-05V32/17 | 2748D-05V32/15 |
|---|--------------|------------------------|----------------------------|------------------------|----------------|----------------|----------------|
| Accessory Part Numbers                  |              |                        |                            |                        |                |                |                |
| Heavy Duty Abrasion Cover               | MHDC010      | PVC-ORANGE-012         | PVC-ORANGE-016             | MHDC016                | N/A            | N/A            | N/A            |
| Cover Sleeves                           | 508-J-500-10 | 510-A-500-12           | 412-400                    | 216-200-18             | * KL-2841-03   | * KL-2841      | * KL-2841      |
| Containment Grip                        | MCGHS10-15   | MCG001SS<br>MCGHS10-15 | MCG001SS<br>MCGHS15-20     | MCG001SS<br>MCGHS15-20 | MCG001SS       | MCGHS20-30     | MCGHS20-30     |
| Bend Stiffener                          | N/A          | M55STIF4<br>M55STIF6   | N/A                        | N/A                    | N/A            | N/A            | N/A            |
| Bend Restrictor                         | N/A          | MBR013-BLK             | N/A                        | N/A                    | N/A            | N/A            | N/A            |
|   | N/A          | 412-400                | N/A                        | N/A                    | N/A            | N/A            | N/A            |
| Pressure Containment Shield and Sleeves | N/A          | MHBS012                | MHBS016                    | MHBS016                | N/A            | N/A            | N/A            |
|   | N/A          | 412-400                | 412-400-16                 | 412-400-16             | N/A            | N/A            | N/A            |
| Hose Stop                               | AH-05S       | AH-05S                 | AH-07S                     | AH-07S                 | N/A            | N/A            | N/A            |

\* Cover sleeve required on TOUGHJACKET hose assemblies.



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2840D/2848D- Ultra High Pressure Waterblast Hose



## Features and Applications

- Ultra high pressure waterblast hose
- Compression forming process (hydroforming)
- Water Jet Cutting

## Markets



- Waterblast

## Certifications

- DIN EN1829-2 compliant except 2840D-03

| Part Number    | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|----------------|--------------|--------------|------|------|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|                |              | DN           | inch | mm   | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #              |              |              |      |      |              |      |                          |       |                     |     |        |      |                |
| 2840D-03V34    | Red          | 5            | 3/16 | 4.8  | 0.59         | 15.0 | 58,000                   | 4,000 | 7.87                | 200 | 0.43   | 0.63 | 2X             |
| 2840D-05V35    | Orange       | 8            | 5/16 | 7.9  | 0.77         | 19.6 | 43,500                   | 3,000 | 9.84                | 250 | 0.72   | 1.07 | 2X             |
| 2840D-08V37    | Gray         | 12           | 1/2  | 12.7 | 1.18         | 29.9 | 36,250                   | 2,500 | 13.78               | 350 | 1.68   | 2.50 | WX             |
| 2848D-08V35    | Orange       | 12           | 1/2  | 13.0 | 1.18         | 29.9 | 43,500                   | 3,000 | 13.78               | 350 | 1.68   | 2.50 | WX             |
| TOUGHJACKET™   |              |              |      |      |              |      |                          |       |                     |     |        |      |                |
| 2840D-03V36/14 | Red          | 5            | 3/16 | 4.8  | 0.75         | 19.1 | 58,000                   | 4,000 | 7.87                | 200 | 0.50   | 0.75 | 2X             |
| 2840D-05V36/15 | Orange       | 8            | 5/16 | 7.9  | 0.93         | 23.6 | 43,500                   | 3,000 | 9.84                | 250 | 0.82   | 1.22 | 2X             |

## Construction

Core Tube: Polyoxymethylene  
 Reinforcement: Eight spiral layers of maximum tensile steel wire  
 Cover: Polyamide

## Options

- Colors:
- Red
  - Orange
  - Gray

## Temperature Range

Temperature Range: +14°F to +158°F (-10°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.



Built in abrasion resistance eliminates the need for an additional PVC sleeve and lightens the hose by up to 16%.




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2840D/2848D- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br><b>#</b>   | 2840D-03V34<br>2840D-03V36/14  | 2840D-05V3x<br>2840D-05V36/15   | 2840D-08V3x<br>2848D-08V3x |
|---|--|---|----------------------------|
| Fitting Part Numbers<br> | 16Y2X-4-03<br>1922X-4-03<br>1AY2X-6-03<br>1AY2X-6-03C<br>1Y42X-4-03<br>1Y42X-4-03C<br>1Y42X-6-03<br>1Y42X-6-03C<br>1Y42X-9-03<br>1Y42X-9-03C | 1AY2X-10-05-SA<br>1AY2X-8-05-SA<br>1Y42X-6-05<br>1Y42X-9-05<br>1Y42X-9-05C<br>1Y42X-9-05-XLT<br>1AY2X-13-05-LB-SA | 6Y4WX-16-8C<br>6YMWX-12-8C |

## Accessories

Technical details available in Section E.

| Hose Part<br><b>#</b>                   | 2840D-03V34          | 2840D-05V3x     | 2840D-08V3x<br>2848D-08V3x | 2840D-03V36/14 | 2840D-05V36/15 |
|---|----------------------|-----------------|----------------------------|----------------|----------------|
| Accessory Part Numbers                  |                      |                 |                            |                |                |
| Heavy Duty Abrasion Cover               | MHDC012              | PVC-OR-AGNE-016 | MHDC024                    | N/A            | N/A            |
| Cover Sleeves                           | 510-A-500-12         | 412-400         | 220-200-22                 | * KL-2841-03   | * KL-2841      |
| Containment Grip                        | MGHS10-15            | MGHS15-20       | N/A                        | MGHS15-20      | MGHS20-30      |
| Bend Stiffener                          | M55STIF4<br>M55STIF6 | N/A             | N/A                        | N/A            | N/A            |
| Bend Restrictor                         | MBR013-BLK           | N/A             | N/A                        | N/A            | N/A            |
|   | HPF-6                | N/A             | N/A                        | N/A            | N/A            |
| Pressure Containment Shield and Sleeves | MHBS012              | MHBS016         | N/A                        | N/A            | N/A            |
|   | 412-400              | 416-400-16      | N/A                        | N/A            | N/A            |
| Hose Stop                               | AH-06S               | AH-07S          | N/A                        | N/A            | N/A            |

\* Cover sleeve required on TOUGHJACKET™ hose assemblies.



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 2849D- Ultra High Pressure Waterblast Hose



## Features and Applications

- Ultra-high pressure service for water jet cutting equipment with water only or with abrasive additives
- Replaces steel pipe where flexibility is important
- Compression forming (hydroforming)

## Markets

- Waterblast



## Certifications

- DIN EN1829-2 compliant

| Part Number    | Jacket Color | Nominal I.D. |      |     | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|----------------|--------------|--------------|------|-----|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|                |              | DN           | inch | mm  | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #              |              |              |      |     |              |      |                          |       |                     |     |        |      |                |
| 2849D-05V34    | Red          | 8            | 5/16 | 7.9 | 0.77         | 19.6 | 55,000                   | 3,800 | 11.02               | 280 | 0.79   | 1.17 | WX             |
| TOUGHJACKET™   |              |              |      |     |              |      |                          |       |                     |     |        |      |                |
| 2849D-05V36/14 | Red          | 8            | 5/16 | 7.9 | 0.93         | 23.6 | 55,000                   | 3,800 | 11.02               | 280 | 0.82   | 1.22 | WX             |

## Construction

Core Tube: Polyoxymethylene

Reinforcement: Eight spiral layers of maximum tensile steel wire

Cover: Polyamide

## Options

Colors:  Red

## Temperature Range

Temperature Range: +14°F to +158°F (-10°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.



Built in abrasion resistance eliminates the need for an additional PVC sleeve and lightens the hose by up to 16%.



### WARNING


This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# 2849D- Fittings and Accessories

## Fittings

Technical details available in Section B.

|  |  |
|--|--|
| Hose Part<br><b>#</b>  | 2849D-05V34<br>2849D-05V36/14                    |
| Fitting Part<br>Numbers<br> | 6YMWX-6-5C-55<br>6Y4WX-9-5C-55<br>6AYWX-10-5C-55 |

## Accessories

Technical details available in Section E.

| Hose Part      | Accessory Part Numbers    |               |                  |   |            |           |
|----------------|---------------------------|---------------|------------------|---|------------|-----------|
|                | Heavy Duty Abrasion Cover | Cover Sleeves | Containment Grip | Pressure Containment Shield and Sleeves |            | Hose Stop |
| 2849D-05V3X    | MHDC016                   | 216-200-18    | MCGHS15-20       | MHBS016                                 | 416-400-16 | AH-07S    |
| 2849D-05V36/14 | N/A                       | *KL-2841      | MCGHS20-30       | N/A                                     | N/A        | N/A       |

\* Cover sleeve required on TOUGHJACKET hose assemblies.



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# HCR High Collapse Resistant Hose



## Features and Applications

- Collapse resistant to 10,000 ft seawater at 1.5 design factor
- Flexible 316L stainless steel interlocking carcass
- Available in long continuous lengths
- Seamless polyamide 11 core tube
- Abrasion and seawater resistant polyurethane cover
- Compact bend radius
- Subsea Hydraulics
- BOP Stack
- Well Stimulation
- Hydraulic Flying Leads

## Markets

- Oil & Gas



| Part Number | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |      | Weight |        | Minimum Collapse Pressure |       | Collapse Pressure Rating per ISO 13628-5 <sup>1,2</sup> |       | Fitting Series |     |
|-------------|--------------|--------------|------|--------------|------|--------------------------|-------|---------------------|------|--------|--------|---------------------------|-------|---|-------|----------------|-----|
|             |              | DN           | inch | mm           | inch | mm                       | psi   | bar                 | inch | mm     | lbs/ft | kg/m                      | psi   | bar   | psi   |                | bar |
| #           |              |              |      |              |      |                          |       |                     |      |        |        |                           |       |   |       |                |     |
| HCRV-8      | Black        | 8            | 1/2  | 12.7         | 1.04 | 26.4                     | 5,000 | 34.5                | 4.0  | 102    | 0.45   | 0.67                      | 6,600 | 456   | 4,400 | 303            | HV  |
| HCRV-16     | Black        | 16           | 1    | 25.4         | 1.83 | 46.4                     | 5,000 | 34.5                | 11.8 | 300    | 1.44   | 2.15                      | 6,600 | 456   | 4,400 | 303            | HV  |

## Construction

Carcass: 316L SS

Core tube: Polyamide 11

Reinforcement: Aramid Fiber Braid

Cover: Polyurethane

## Options

- Colors:
- Black (standard)
  - Blue
  - Yellow
  - Green

## Temperature Range

-40°F to +131°F (-40°C to +55°C)

## Minimum Burst Pressure

Min. Burst Pressure is 4x Max. Working Pressure

## Fittings

HV Series – constructed of 316 stainless steel

## Notes

- 1.5 design factor for collapse pressure per API 17E
- Contact the Parflex Division for installation depths greater than 10,000 ft.




### WARNING

This product can expose you to chemicals including Dichloromethane (Methylene chloride), which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# HCR - Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br><b>#</b>  | HCRV-8                   | HCRV-16                      |
|--|--------------------------|------------------------------|
| Fitting Part<br>Numbers<br> | 106HV-8-8C<br>19GHV-8-8C | 106HV-16-16C<br>19GHV-16-16C |

## Accessories

Technical details available in Section E.



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 57CR “Sea Wolf” - High Collapse Resistant Hose



## Features and Applications

- Ultra-high abrasion resistant
- Suitable for marine (salt water) environment
- ISO 13628-5 “Specification for Subsea Production Control Umbilicals”, Section 7.9 Hose construction
- Smooth bore for improved flow rate and low pressure drop
- Ideal solution for subsea hydraulic lines that are not under constant system pressure
- Hose is not recommended for high pressure pneumatic service applications

## Markets

- Oil & Gas



| Part Number | Jacket Color | Nominal I.D. |     | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |       | Weight |      | Fitting Series |    |
|-------------|--------------|--------------|-----|--------------|------|--------------------------|-------|---------------------|-------|--------|------|----------------|----|
|             |              | inch         | mm  | inch         | mm   | psi                      | bar   | inch                | mm    | lbs/ft | kg/m |                |    |
| #           |              |              |     |              |      |                          |       |                     |       |        |      |                |    |
| 57CR-8-BLU  | Blue         | 12           | 1/2 | 12.7         | 1.18 | 30                       | 5,000 | 34.5                | 6.25  | 159    | 0.63 | 0.94           | CR |
| 57CR-8-YEL  | Yellow       | 12           | 1/2 | 12.7         | 1.18 | 30                       | 5,000 | 34.5                | 6.25  | 159    | 0.63 | 0.94           | CR |
| 57CR-16-BLU | Blue         | 25           | 1   | 25.4         | 2    | 50.8                     | 5,000 | 34.5                | 10.75 | 273    | 1.46 | 2.17           | CR |
| 57CR-16-YEL | Yellow       | 25           | 1   | 25.4         | 2    | 50.8                     | 5,000 | 34.5                | 10.75 | 273    | 1.46 | 2.17           | CR |

## Construction

Core Tube: Polyamide with stainless steel helix support

Reinforcement: High tensile strength aramid fiber

Cover: Polyurethane

## Options

Colors: Blue  
 Yellow

## Temperature Range

-40°F to +140°F (-40°C to +60°C) for petroleum, synthetic hydraulic oils, water and water-based hydraulic fluid

## Minimum Burst Pressure

Min. Burst Pressure is 4x Max. Working Pressure

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.




### WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 57CR “Sea Wolf” - Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 57CR-8   | 57CR-16  |
|---|--|--|
| Fitting Part Numbers<br> | 606CR-8-8C<br>66ACR-16-8C-SUBSEA*<br>66ACR-16-8C-SUBSEA-90*<br>66ACR-8-8C-SUBSEA*<br>66ACR-8-8C-SUBSEA-90* | 606CR-16-16C<br>66ACR-16-16C-SUBSEA*<br>66ACR-16-16C-SUBSEA-90*<br>66ACR-24-16C-SUBSEA*<br>66ACR-24-16C-SUBSEA-90* |

\*6A code on CR Series fittings are dual seal connections

## Accessories

Technical details available in Section E.



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# HP- High Pressure Hose

## HP8- High Pressure Non-Conductive Hose



### Features and Applications

- Meets or exceeds SAE J517 for less than 50 microamps leakage under 75000 volts per foot\*
- Specially formulated thermoplastic elastomer core tube
- For use in high pressure hydraulic and pneumatic applications and can be used with lubricating oils
- Non-conductive version (HP8) used in aerial lift equipment
- High pressure tools
- Rigging jacks
- Test apparatus
- Oilfield pressure control devices
- Offshore oil applications

### Markets

- Oil & Gas
- Hydraulics



| Part Number | Jacket Color | Nominal I.D. |      |     | Maximum O.D. |      | Maximum Working Pressure |     | Minimum Bend Radius |    | Weight |      | Fitting Series |
|-------------|--------------|--------------|------|-----|--------------|------|--------------------------|-----|---------------------|----|--------|------|----------------|
|             |              | DN           | inch | mm  | inch         | mm   | psi                      | bar | inch                | mm | lbs/ft | kg/m |                |
| #           |              |              |      |     |              |      |                          |     |                     |    |        |      |                |
| HP-3        | Blue         | 5            | 3/16 | 4.8 | 0.51         | 13.0 | 10,000                   | 690 | 1.50                | 38 | 0.09   | 0.13 | HP*            |
| HP-4        | Blue         | 6            | 1/4  | 6.4 | 0.58         | 14.7 | 10,000                   | 690 | 2.50                | 64 | 0.11   | 0.16 | HP*            |
| HP-6        | Blue         | 10           | 3/8  | 9.5 | 0.73         | 18.5 | 8,000                    | 552 | 3.00                | 76 | 0.16   | 0.23 | HP*            |
| HP8-3*      | Orange       | 5            | 3/16 | 4.8 | 0.51         | 13.0 | 10,000                   | 690 | 1.50                | 38 | 0.09   | 0.13 | HP*            |
| HP8-4*      | Orange       | 6            | 1/4  | 6.4 | 0.58         | 14.7 | 10,000                   | 690 | 2.50                | 64 | 0.11   | 0.16 | HP*            |
| HP8-6*      | Orange       | 10           | 3/8  | 9.5 | 0.73         | 18.5 | 8,000                    | 552 | 3.00                | 76 | 0.16   | 0.23 | HP*            |

Minimum hose assembly lengths: 30 in.

### Construction

Core Tube: Specially formulated thermoplastic elastomer

Reinforcement: High tensile strength aramid fiber

Cover: HP- perforated elastomeric cover  
HP8- non-perforated elastomeric cover

### Options

Colors: Blue  
 Orange

### Temperature Range

-40°F to +150°F (-40°C to +66°C) for petroleum, synthetic or water-based hydraulic fluids, pneumatic and gas service, and with some solvents and chemicals

### Notes

- HP8 is not qualified for pneumatic gas service applications
- Not recommended for water blast applications or for use in static discharge applications (i.e., airless paint spray)
- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly
- HP/HP8 hose must be assembled at the factory or by a Parflex approved facility




#### WARNING

This product can expose you to chemicals including Nickel Compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# HP / HP8- Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | HP-3                                | HP-4   | HP-6                   | HP8-3                               | HP8-4   | HP8-6                  |
|---|-------------------------------------|--|------------------------|-------------------------------------|---|------------------------|
| Fitting Part Numbers<br> | 101HP-4-3<br>101HP-6-3<br>106HP-4-3 | 101HP-4-4<br>101HP-6-4<br>106HP-4-4<br>106HP-6-4 | 101HP-6-6<br>106HP-6-6 | 101HP-4-3<br>101HP-6-3<br>106HP-4-3 | 101HP-4-3<br>101HP-4-4<br>101HP-6-4<br>106HP-4-4<br>106HP-6-4 | 101HP-6-6<br>106HP-6-6 |

## Required Accessories

Technical details available in Section E.

| Hose Part # | Accessory Part Numbers       |
|-------------|------------------------------|
|             | High Pressure Guard Kit      |
| HP-3        | HPG3-12K<br>HPG3-23K         |
| HP-4        | HPG4-12K<br>HPG4-23K         |
| HP-6        | HPG6-12K<br>HPG6-23K         |
| HP8-3       | HPG3-12K-ORG<br>HPG3-23K-ORG |
| HP8-4       | HPG4-12K-ORG<br>HPG4-23K-ORG |
| HP8-6       | HPG6-12K-ORG<br>HPG6-23K-ORG |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle - 1-1/2" Oilfield Service Hose



## Features and Applications

- Up to 30% weight reduction in comparison to R13 rubber hoses - more than 70% in comparison to flexible pipe
- Lower bend radius when compared to composite hose
- Compact design - smaller O.D. than flexible pipe
- ColorGard™, an extra thick dual color Polyurethane sheath\*
- Long continuous lengths up to 1,000m without splicing (depending on hose type)
- Inner core has superior chemical resistance
- For oilfield services such as: cementing, water and gas injection hose, acidizing, mud circulation

## Markets

- Oil & Gas



| Part Number     | Jacket Color | Nominal I.D. |       | Maximum O.D. |      | Maximum Working Pressure |        | Minimum Bend Radius |       | Weight |      | Fitting Series |    |
|-----------------|--------------|--------------|-------|--------------|------|--------------------------|--------|---------------------|-------|--------|------|----------------|----|
|                 |              | DN           | inch  | inch         | mm   | psi                      | bar    | inch                | mm    | lbs/ft | kg/m |                |    |
| #               |              |              |       |              |      |                          |        |                     |       |        |      |                |    |
| 2640N-24V80     | Black        | 40           | 1-1/2 | 38.1         | 2.78 | 70.5                     | 10,000 | 690                 | 19.69 | 500    | 4.84 | 7.20           | 5X |
| 2640N-24V80-15K | Black        | 40           | 1-1/2 | 38.1         | 2.60 | 66.0                     | 15,000 | 1,035               | 19.69 | 500    | 4.37 | 6.50           | 5X |

## Construction

Core Tube: Polyamide 11, methanol washed

Reinforcement: 6 layers of high tensile steel wire

Cover: Extra thick dual layer polyurethane

## Options

Colors: ● Black w/ ColorGard™ red inner sheath

## Temperature Range

-40°F to +158°F (-40°C to +70°C),

15K hose can be used intermittently at +212°F (+100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- \* Polyflex ColorGard™ extra thick, dual color cover significantly reduces the risk of exposing the reinforcing wires. If the outer black cover has been abraded to the point that the "early warning" red inner cover can be seen, the hose needs to be changed out.



### WARNING


This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# Black Eagle - Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2640N-24V80   | 2640N-24V80-15K                                |
|---|---|--|
| Fitting Part Numbers<br> | 1HE5X-32-24C4462-TC<br>1HN5X-32-24C4462-TC<br>18K5X-33-24-17DSV-10K-TC<br>1HB5X-33-24C4462-10K-TC | 1HE5X-32-24C4462-KOP2<br>1HN5X-32-24C4462-KOP2 |

Other hub end fitting designs available.

## Accessories

Technical details available in Section E.

| Hose Part #     | Accessory Part Numbers |             |
|-----------------|------------------------|-------------|
|                 | Containment Grip       | Heat Shrink |
| 2640N-24V80     | MCGHS3295-SS           | HDT4500-48A |
| 2640N-24V80-15K | HS-24C-2640N           | HDT4500-48A |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle - 2" Oilfield Service Hose



## Features

- Up to 30% weight reduction in comparison to R13 rubber hoses - more than 70% in comparison to flexible pipe
- Lower bend radius when compared to composite hose
- Compact design - smaller O.D. than flexible pipe
- ColorGard™, an extra thick dual color Polyurethane sheath\*
- Long continuous lengths up to 1,000m without splicing (depending on hose type)
- Inner core has superior chemical resistance
- \*DNV Type Approval P 14038 according to API 7K and API 17J with BL Fittings
- For oilfield services such as: cementing, water and gas injection hose, acidizing, mud circulation

## Markets

- Oil & Gas



| Part Number  | Jacket Color | Nominal I.D. |      | Maximum O.D. |      | Maximum Working Pressure |        | Minimum Bend Radius |    | Weight |      | Fitting Series |    |
|--------------|--------------|--------------|------|--------------|------|--------------------------|--------|---------------------|----|--------|------|----------------|----|
|              |              | DN           | inch | inch         | mm   | psi                      | bar    | inch                | mm | lbs/ft | kg/m |                |    |
| #            |              |              |      |              |      |                          |        |                     |    |        |      |                |    |
| 2448N-32V80* | Black        | 50           | 2    | 50.8         | 3.17 | 80.5                     | 5,000  | 345                 | 20 | 508    | 5.71 | 8.50           | 5X |
| 2580N-32V80* | Black        | 50           | 2    | 50.8         | 3.33 | 84.5                     | 10,000 | 690                 | 32 | 813    | 6.32 | 9.40           | 5X |
| 2648N-32V80  | Black        | 50           | 2    | 50.8         | 3.39 | 86.0                     | 15,000 | 1,035               | 31 | 787    | 8.13 | 12.10          | CX |

## Construction

Core Tube: Polyamide 11, methanol washed

Reinforcement:

2448N – 4 spiral layers of high tensile steel wire

2580N – 4 spiral layers and 2 open spiral layers high tensile steel wire

2648N – 6 spiral layers of high tensile steel wire

Cover: Extra thick dual layer polyurethane

## Options

Colors: ● Black w/ ColorGard™ red inner sheath

## Temperature Range

-40°F to +158°F (-40°C to +70°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- \* Polyflex ColorGard™ extra thick, dual color cover significantly reduces the risk of exposing the reinforcing wires. If the outer black cover has been abraded to the point that the “early warning” red inner cover can be seen, the hose needs to be changed out.




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle - Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2448N-32V80  | 2580N-32V80  | 2648N-32V80                     |
|---|--|--|---------------------------------|
| Fitting Part Numbers<br> | 66A5X-32-32TC3964<br>68K5X-33-32-17DSV3964-5K<br>68K5X-41-32-17DSV3964-5K<br>6HB5X-33-32-TC3964-5K<br>6HB5X-41-32-TC3964-5K<br>6HE5X-32-32-FLATTC<br>6HE5X-32-32-SEGTC<br>6HN5X-32-32-TC | 68K5X-33-32-17DSV3964-10K<br>6HB5X-33-32-TC3964-10K<br>6HE5X-32-32-FLATTC<br>6HE5X-32-32-SEGTC<br>6HN5X-32-32-TC | 1HECX-32-32-FLAT<br>1HNCX-32-32 |

Other hub end fitting designs available.

## Accessories

Technical details available in Section E.

| Hose Part # | Accessory Part Numbers |             |
|-------------|------------------------|-------------|
| #           | Containment Grip       | Heat Shrink |
| 2448N-32V80 | MCGHS3295-SS           | HDT4500-48A |
| 2580N-32V80 | MCGHS3295-SS           | HDT4500-48A |
| 2648N-32V80 | MCGHS3295-SS           | HDT4500-48A |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle - 3" Oilfield Service Hose



## Features

- Up to 30% weight reduction in comparison to R13 rubber hoses – more than 70% in comparison to flexible pipe
- Lower bend radius when compared to composite hose
- Compact design – smaller O.D. than flexible pipe
- Colorard™, an extra thick dual color Polyurethane sheath\*
- Long continuous lengths up to 1,000m without splicing (depending on hose type)
- Inner core has superior chemical resistance
- DNV Type Approval P 14038 according to API 7K and API 17J
- For oilfield services such as: cementing, water and gas injection hose, acidizing, mud circulation

## Markets

- Oil & Gas



| Part Number              | Jacket Color | Nominal I.D. |      |      | Maximum O.D. |       | Maximum Working Pressure |       | Minimum Bend Radius |      | Weight |       | Fitting Series |
|--------------------------|--------------|--------------|------|------|--------------|-------|--------------------------|-------|---------------------|------|--------|-------|----------------|
|                          |              | DN           | inch | mm   | inch         | mm    | psi                      | bar   | inch                | mm   | lbs/ft | kg/m  |                |
| #                        |              |              |      |      |              |       |                          |       |                     |      |        |       |                |
| 2240N-48V80 <sup>1</sup> | Black        | 78           | 3    | 76.0 | 4.49         | 114.0 | 5,000                    | 345   | 39.93               | 1000 | 7.73   | 11.50 | TX             |
| 2440N-48V80 <sup>2</sup> | Black        | 78           | 3    | 76.0 | 4.80         | 122.0 | 10,000                   | 690   | 43.31               | 1100 | 12.57  | 18.70 | LX             |
| 2640N-48V80 <sup>2</sup> | Black        | 78           | 3    | 76.0 | 4.49         | 130.5 | 15,000                   | 1,035 | 47.30               | 1200 | 18.48  | 27.50 | 5X             |

## Construction

Core Tube: Polyamide 11, methanol washed

Reinforcement:

2240N – 2 spiral layers of high tensile steel wire

2440N – 4 spiral layers high tensile steel wire

2640N – 6 spiral layers of high tensile steel wire

Cover: Extra thick dual layer polyurethane

## Options

Colors: ● Black w/ ColorGard™ red inner sheath

## Temperature Range

-40°F to +158°F (-40°C to +70°C), 2240N and 2440N can be used intermittently at +212°F (+100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- \* Polyflex ColorGard™ extra thick, dual color cover significantly reduces the risk of exposing the reinforcing wires. If the outer black cover has been abraded to the point that the “early warning” red inner cover can be seen, the hose needs to be changed out.




### WARNING

<sup>1</sup>This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. <sup>2</sup>This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle - Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part #   | 2240N-48V80                                    | 2440N-48V80                                    | 2640N-48V80                                    |
|---|--|--|--|
| Fitting Part Numbers<br> | 1HETX-48-48<br>1HETX-48-48-FLAT<br>1HNTX-48-48 | 1HELX-48-48<br>1HELX-48-48-FLAT<br>1HNLX-48-48 | 1HE5X-48-48<br>1HE5X-48-48-FLAT<br>1HN5X-48-48 |

## Accessories

Technical details available in Section E.



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle Light - Cementing Hose



## Features

- Abrasive applications, such as cementing
- Significantly higher abrasion resistance than common elastomer materials — longer service life and less contamination in cement slurry
- Easy visualization of core tube erosion— more efficient product inspection and reduced unscheduled downtime
- Lighter weight and smaller O.D. than common 4-layer constructions - faster and easier deployment

## Markets

- Oil & Gas



| Part Number | Jacket Color | Nominal I.D. |    | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |       | Weight |      | Fitting Series |     |
|-------------|--------------|--------------|----|--------------|------|--------------------------|-------|---------------------|-------|--------|------|----------------|-----|
|             |              | inch         | mm | inch         | mm   | psi                      | bar   | inch                | mm    | lbs/ft | kg/m |                |     |
| #           |              |              |    |              |      |                          |       |                     |       |        |      |                |     |
| 2240N-32V10 | Black        | 50           | 2  | 50.8         | 2.70 | 68.5                     | 3,000 | 207                 | 19.69 | 500    | 2.96 | 4.40           | S6* |
| 2248N-32V10 | Black        | 50           | 2  | 50.8         | 2.70 | 68.5                     | 5,000 | 345                 | 19.69 | 500    | 2.96 | 4.40           | S6* |

## Construction

Core Tube: Polyamide 11, two-layer core tube

Reinforcement: Two closed spiral layers of high tensile steel wire

Cover: Polyurethane

## Options

Colors: ● Black

## Temperature Range°

-40°F to +212°F (-40°C to +100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- \* Fittings are not for use subsea. For subsea applications, see traditional **Black Eagle** product series.




### WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle Light - Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br><b>#</b>   | 2240N-32V10  | 2448N-32V10  |
|---|--|--|
| Fitting Part Numbers<br><br> | Offshore*:<br>1HES6-32-32-FLAT-SC<br>1HNS6-32-32-SC<br><br>Onshore:<br>1HES6-32-32-FLAT<br>1HNS6-32-32 | Offshore*:<br>1HES6-32-32-FLAT-SC<br>1HNS6-32-32-SC<br><br>Onshore:<br>1HES6-32-32-FLAT<br>1HNS6-32-32 |

\*Fittings are not for use subsea. For subsea applications, see traditional **Black Eagle** product series.

## Accessories

Technical details available in Section E.



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Golden Eagle - Chemical Injection and Acidizing Hose



## Features and Applications

- ColorGard™, an extra thick dual color polyurethane sheath\*
- Long continuous lengths up to 1,000m without splicing (depending on hose type)
- Inner core has superior chemical resistance
- Compact design – smaller O.D. than flexible pipe
- Up to 30% weight reduction in comparison to R13 rubber hoses – more than 70% in comparison to flexible pipe
- Lower bend radius when compared to composite hose
- Water and chemical injection hose
- Acidizing
- Not recommended for gas applications

## Markets



- Oil & Gas

| Part Number | Jacket Color | Nominal I.D. |       |      | Maximum O.D. |      | Maximum Working Pressure |     | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|-------|------|--------------|------|--------------------------|-----|---------------------|-----|--------|------|----------------|
|             |              | DN           | inch  | mm   | inch         | mm   | psi                      | bar | inch                | mm  | lbs/ft | kg/m |                |
| #           |              |              |       |      |              |      |                          |     |                     |     |        |      |                |
| 2640M-24V88 | Gold         | 40           | 1-1/2 | 38.1 | 2.78         | 70.5 | 10,000                   | 690 | 19.69               | 500 | 4.84   | 7.20 | 5X             |
| 2580M-32V88 | Gold         | 50           | 2     | 50.8 | 3.33         | 84.5 | 10,000                   | 690 | 31.50               | 800 | 6.32   | 9.40 | 5X             |

## Construction

Core Tube: Polyamide 11, methanol washed

Reinforcement:

2640M – 6 spiral layers of high tensile steel wire

2580M – 4 spiral layers and two open spiral layers of high tensile steel wire

Cover: Extra thick dual layer polyurethane

## Options

Colors: Gold w/ ColorGard™ red inner sheath

## Temperature Range

-40°F to +158°F (-40°C to +70°C);

2640M short term up to +212°F (+100°C)

## Notes

- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.
- \* Polyflex ColorGard™ extra thick, dual color cover significantly reduces the risk of exposing the reinforcing wires. If the outer black cover has been abraded to the point that the “early warning” red inner cover can be seen, the hose needs to be changed out.



### WARNING


This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# Golden Eagle - Fittings and Accessories

## Fittings

Technical details available in Section B.

| Hose Part<br>#  | 2640M-24V88                                    | 2580M-32V88  |
|---|--|--|
| Fitting Part Numbers<br> | 1HE5X-32-24C4462-FLATTC<br>1HN5X-32-24C4462-TC | 68K5X-33-32-17DSV3964-10K<br>6HB5X-33-32-TC3964-10K<br>6HE5X-32-32-FLATTC<br>6HE5X-32-32-SEGTC<br>6HN5X-32-32-TC |

Other hub end fitting designs available.

## Accessories

Technical details available in Section E.



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# ChemJec - Long-length Umbilical Hose



## Features

- Excellent chemical resistance
- Medium pressure, high temperature, low volumetric expansion hose
- Withstands high pressure cycles with no signs of stress cracking
- Meets or exceeds the performance requirements of ISO 13628-5
- Long-length subsea umbilical hose
- Not recommended for gas applications

## Markets

- Oil & Gas



| Part Number | Jacket Color | Nominal I.D. |       |      | Maximum O.D. |      | Maximum Working Pressure |       | Minimum Bend Radius |     | Weight |      | Fitting Series |
|-------------|--------------|--------------|-------|------|--------------|------|--------------------------|-------|---------------------|-----|--------|------|----------------|
|             |              | DN           | inch  | mm   | inch         | mm   | psi                      | bar   | inch                | mm  | lbs/ft | kg/m |                |
| #           |              |              |       |      |              |      |                          |       |                     |     |        |      |                |
| 2440M-04V38 | Gold         | 6            | 1/4   | 6.4  | 0.52         | 13.1 | 12,500                   | 875   | 5.90                | 150 | 0.21   | 0.31 | 8X             |
| 2440M-05V38 | Gold         | 8            | 5/16  | 7.9  | 0.64         | 16.2 | 10,000                   | 690   | 6.88                | 175 | 0.33   | 0.49 | LX             |
| 2440M-06V38 | Gold         | 10           | 3/8   | 9.5  | 0.77         | 19.5 | 10,000                   | 690   | 7.48                | 190 | 0.49   | 0.73 | LX             |
| 2440M-08V38 | Gold         | 12           | 1/2   | 12.7 | 0.89         | 22.7 | 10,000                   | 690   | 7.87                | 200 | 0.63   | 0.94 | LX             |
| 2448M-04V38 | Gold         | 6            | 1/4   | 6.4  | 0.54         | 13.7 | 15,000                   | 1,035 | 9.06                | 230 | 0.26   | 0.38 | UX             |
| 2448M-05V38 | Gold         | 8            | 5/16  | 7.9  | 0.64         | 16.3 | 15,000                   | 1,035 | 9.06                | 230 | 0.35   | 0.52 | LX             |
| 2448M-06V38 | Gold         | 10           | 13/32 | 10.2 | 0.79         | 20.1 | 15,000                   | 1,035 | 7.87                | 200 | 0.56   | 0.83 | UX             |
| 2640M-08V38 | Gold         | 12           | 1/2   | 12.7 | 0.97         | 24.7 | 15,000                   | 1,035 | 11.42               | 290 | 0.90   | 1.34 | 5X             |

## Construction

Core Tube: Proprietary specification, based on fluoropolymer technology

### Reinforcement:

2440M / 2448M – 4 closed spiral layers of high tensile steel wire  
2640M – 6 closed spiral layers of high tensile steel wire

Cover: Polyamide 12

## Temperature Range

-40°F to +212°F (-40°C to +100°C)

## Notes

- Not recommended for gas applications
- Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.

## Options

Colors: Gold




### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Fittings

Technical details available in Section B.

| Hose Part #   | 2440M-04V38  | 2440M-05V38  | 2440M-06V38   |
|---|--|--|---|
| Fitting Part Numbers<br> | 1018X-4-04C<br>1018X-6-04C<br>1028X-4-04C<br>1068X-4-04C<br>1068X-6-04C<br>1AY8X-6-04C | 6AYLX-8-5C-M-SUBSEA<br>106LX-6-05C<br>1AYLX-8-05C                      | 6AYLX-8-6C-SUBSEA<br>106LX-6-06C-M-SUBSEA<br>106LX-8-06C-M-SUBSEA |
|   | 2440M-08V38  | 2448M-04V38  | 2448M-05V38   |
|   | 106LX-8-08C-M-SUBSEA<br>1Y2LX-12-08C-M-SUBSEA  | 101UX-6-04C<br>1AYUX-6-04C<br>1Y2UX-6-04C                              | 6AYLX-8-5C-M-SUBSEA   |
|   | 2448M-06V38  | 2640M-08V38  |   |
|   | 1AYUX-8-06C<br>1Y2UX-9-06C   | 1AY5X-11-08C-M-SUBSEA<br>1Y25X-12-08C-M-SUBSEA<br>1Y25X-9-08C-M-SUBSEA |   |

## Accessories

Technical details available in Section E.



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# Fittings

Permanent / Crimp Fittings  
Field Attachable / Reusable  
Polyflex-Lok



# Table of Contents

## Introduction

|  |     |
|--|-----|
| End Fitting Nomenclature.....          | B-4 |
| Fitting Configuration Chart.....       | B-6 |
| How to Read the Fittings Section ..... | B-9 |

## Fittings by Series

|                   |      |
|-------------------|------|
| 2X Series .....   | B-10 |
| 3X Series .....   | B-12 |
| 5X Series .....   | B-14 |
| 8X Series .....   | B-16 |
| 9X Series.....    | B-24 |
| AX Series .....   | B-26 |
| BL Series .....   | B-27 |
| BS Series.....    | B-29 |
| CR Series.....    | B-31 |
| CX Series.....    | B-33 |
| E3/E4 Series..... | B-34 |
| EX Series .....   | B-37 |
| HP Series.....    | B-39 |
| HV Series.....    | B-40 |
| HX Series.....    | B-41 |
| JX Series .....   | B-42 |
| KY Series.....    | B-43 |
| LX Series .....   | B-45 |
| NX Series.....    | B-57 |

# Table of Contents

Hose  
A

**Fittings**  
B

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

General Technical  
F

## Fittings by Series (cont.)

|                           |      |
|---------------------------|------|
| RX Series.....            | B-60 |
| TX Series .....           | B-61 |
| UX Series.....            | B-64 |
| WX Series.....            | B-65 |
| Black Eagle Fittings..... | B-67 |

## Polyflex-Lok

|                              |      |
|------------------------------|------|
| Polyflex-Lok Components..... | B-74 |
|------------------------------|------|

# Fitting Part Number Nomenclature



**6Y4LX-9-3C**

**6**

### 1. Design Type

- 1 = German-designed end fitting
- 6 = US-designed end fitting
- 2 = Reusable style end fittings

**Y4**

**LX**

### 2. Connection Type

|         |   |   |
|---------|---|---|
| 01      | = | NPT - Male  |
| 02      | = | NPT - Female                                      |
| 06      | = | JIC 37° Flare - Female                            |
| 5Y      | = | Medium Pressure Female - Swivel                   |
| 6A      | = | Code 62   |
| 6Y      | = | High Pressure Female - Swivel                     |
| 8K      | = | API Hub with Flange                               |
| 92      | = | BSP Female - Swivel                               |
| 9G      | = | Straight Dual Seal                                |
| AY      | = | Type "M" Female - Swivel                          |
| C3 / C9 | = | METRIC Female - Swivel                            |
| D9      | = | BSP Rigid - Male                                  |
| HB      | = | API Hub   |
| HE      | = | 2" Hammer Union, Cone w/ Wing Nut - Male          |
| HN      | = | 2" Hammer Union, Cone Threaded End w/Seal- Female |
| HY      | = | Waterblast Nozzle - Female                        |
| MB      | = | STECKO  |
| TU      | = | Tube Stub Fitting                                 |
| Y2      | = | Medium Pressure - Tube Nipple                     |
| Y4      | = | High Pressure - Tube Nipple                       |
| YH      | = | Waterblast Nozzle - Male                          |
| YM      | = | Waterblast Nozzle - Male Metric                   |

### 3. Fitting Series Designation

For a complete list, see index, page B-2 ie. LX

Hose  
A

Fittings  
B

Adapters & Valves  
C

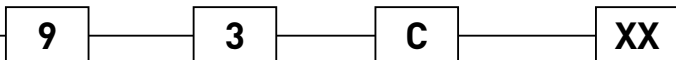
Quick Couplings  
D

Accessories  
E

General Technical  
F



# Fitting Part Number Nomenclature



| 4. Connection Type   |
|--|
| These two digits will indicate the SIZE of connection – End 1 and End 2. |
| <b>JIC/Type M</b>  |
| 01 = 1/4" -28 UNF  |
| 02 = 5/16" - 24 UNF  |
| 03 = 3/8" -24 UNF  |
| 04 = 7/16" - 20 UNF  |
| 05 = 1/2" - 20 UNF   |
| 06 = 9/16"-18 UNF  |
| 07 = 5/8" - 18 UNF   |
| 08 = 3/4"-16 UNF   |
| 10 = 7/8" - 14 UNF   |
| 11 = 1" - 12 UNF   |
| 12 = 1-1/16" - 12 UNF  |
| 13 = 1-1/8" - 12 UNF   |
| 15 = 1-1/4" - 12 UNF   |
| 16 = 1-5/16" - 12 UNF  |
| 17 = 1-3/8" - 12 UNF   |
| 19 = 1-1/2" - 12 UNF   |
| 20 = 1-5/8" - 12 UNF   |
| <b>BSP</b>   |
| 02 = G 1/8" - 28   |
| 04 = G 1/4" - 19   |
| 06 = G 3/8" - 19   |
| 08 = G 1/2" - 14   |
| <b>NPTF</b>  |
| 01 = 1/16" - 27  |
| 02 = 1/8" - 27   |
| 04 = 1/4" - 18   |
| 06 = 3/8" - 18   |
| 08 = 1/2" - 14   |
| 12 = 3/4" - 14   |
| 16 = 1" - 11-1/2   |
| 20 = 1-1/4" -11-1/2  |
| 24 = 1-1/2" -11-1/2  |
| 32 = 2" - 11-1/2   |
| <b>MP &amp; HP Tube</b>  |
| [Sized by nominal tube O.D.]   |
| 04 = 1/4" - 28   |
| 06 = 3/8" - 24   |
| 09 = 9/16"-18  |
| 12 = 3/4" - 16   |
| 16 = 1" - 14   |

| 5. Hose Size |
|--------------|
| 1/8" -02     |
| 5/32" -02A   |
| 3/16" -03    |
| 1/4" -04     |
| 5/16" -05    |
| 3/8" -06     |
| 1/2" -08     |
| 3/4" -12     |
| 1" -16       |
| 2" -32       |

| 6. Fitting Material                                      |
|--|
| C = Stainless steel                                      |
| Blank = Carbon steel                                     |
| Any other materials will be noted in the Fitting section |

| Specialty Codes          |
|--------------------------|
| -PL = Prolance           |
| -LH = Left Hand          |
| -W = Waterblast          |
| -411 = Non std drop      |
| -4662 = Duplex steel     |
| -55 = Specific psi       |
| -HCL = 4340 steel        |
| -SA = SAE hex            |
| -SD = Nitronic 50        |
| -SL = Short nipple       |
| -XLT = Extra long nipple |

**Hose Part Numbers - Nomenclature**—page A-8

**Hose Assembly Part Numbers - Nomenclature**—page A-10

# Fitting Designation Descriptions

Hose  
A

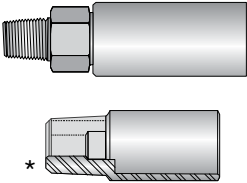

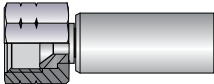
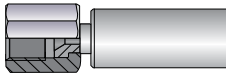
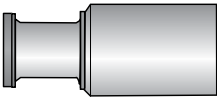
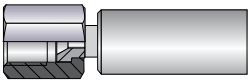
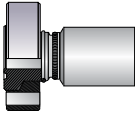
Fittings  
B

Adapters & Valves  
C

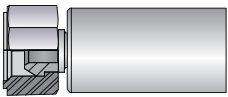
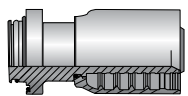
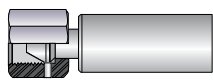
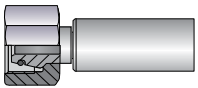
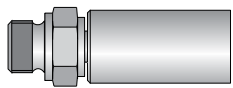
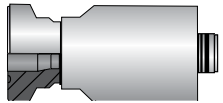
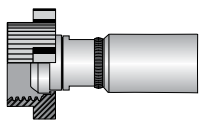
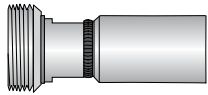
Quick Couplings  
D

Accessories  
E

General Technical  
F

| Fitting   | Fitting Description   | Fitting Designation |
|---|---|---------------------|
|    | <p><b>National Pipe Tapered (NPT) - Male</b><br/>* Prolance</p> | 01                  |
|    | <p><b>National Pipe Tapered (NPT) - Female</b></p>              | 02                  |
|    | <p><b>JIC 37° Flare - Female</b></p>                            | 06                  |
|    | <p><b>Medium Pressure Female - Swivel</b></p>                   | 5Y                  |
|  | <p><b>Code 62</b></p>   | 6A                  |
|  | <p><b>High Pressure Female Swivel</b></p>                       | 6Y                  |
|  | <p><b>API Hub with Flange</b></p>                               | 8K                  |

# Fitting Designation Descriptions

| Fitting   | Fitting Description                                     | Fitting Designation |
|---|---|---------------------|
|    | BSP Female - Swivel                                     | 92                  |
|    | Straight Dual Seal                                      | 9G                  |
|    | Type "M" Female - Swivel                                | AY                  |
|    | Metric Female - Swivel                                  | C3 or C9            |
|    | BSP Rigid - Male  | D9                  |
|  | API Hub   | HB                  |
|  | Hammer Union (Male)<br>Cone with Wing Nut               | HE                  |
|  | Hammer Union (Female)<br>Cone Threaded End with<br>Seal | HN                  |

Hose  
A

**Fittings**  
B

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

General Technical  
F

# Fitting Designation Descriptions

Hose  
A

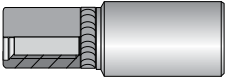

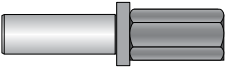
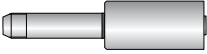
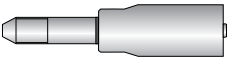

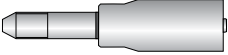
Fittings  
B

Adapters & Valves  
C

Quick Couplings  
D




Accessories  
E

General Technical  
F

| Fitting   | Fitting Description                    | Fitting Designation |
|---|--|---------------------|
|    | <b>Waterblast Nozzle - Female</b>      | <b>HY</b>           |
|    | <b>Stecko - Male</b>                   | <b>MB</b>           |
|    | <b>Tube Stub Fitting</b>               | <b>TU</b>           |
|    | <b>Medium Pressure Tube Nipple</b>     | <b>Y2</b>           |
|    | <b>High Pressure Tube Nipple</b>       | <b>Y4</b>           |
|  | <b>Waterblast Nozzle - Male</b>        | <b>YH</b>           |
|  | <b>Waterblast Nozzle - Male Metric</b> | <b>YM</b>           |

# How to Read the Fittings Section

- 1
- 2
- 3
- 4
- 5
- 6

| Part Number | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | Hex   |    | Max. Working Pressure |   |
|-------------|---|------------------|----|--------------------|----|---|----|-----------------------|---|
|             |   | inch             | mm | inch               | mm | inch  | mm | psi                   | bar   |
| #           |  |                  |    |                    |    |  |    |                       |  |
| 6AYHX-6-3C  | 9/16"-18  | 3.20             | 81 | 1.40               | 36 | 0.68  | 17 | 40,600                | 2,800   |

## 1. Part Number

The fitting part number gives the connection type and size of the fitting, as well as, the hose series and hose size the fitting is intended for (see part number breakdown on pg. B-4).

## 2. Thread Size

UNF threads will contain a number indicating the nominal diameter of the thread, followed by the pitch measured in threads per inch. Any other thread form will be identified in the thread size measurement (i.e. NPT, BSP, Metric, etc.).

## 3. Overall Fitting Length

This measurement indicates the total length of fitting from end to end.

## 4. Cutoff Allowance

End fitting dimension from the seating surface to the fitting hose stop. This dimension added to the length of the cut hose will yield the over-all length(OAL) of the hose assembly.

## 5. Hex Size

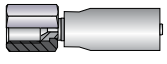


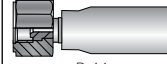
This is the dimension of the hex across opposing flats.

## 6. Maximum Working Pressure

Maximum pressure at which the fitting should be operated. Most fittings are rated for the full working pressure of the hose. Fittings with maximum pressures that differ from the hose working pressure will be called out.

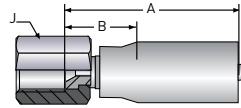
**Note:** The working pressure of a hose assembly is dependent upon the lowest rated component of that assembly. For example, if a hose is rated to 40K psi, but the fittings are rated to 15K psi, the working pressure of that assembly is 15K psi.

# 2X Series Fittings

|                                |   |   |   |   |      |                              |      |                      |
|--------------------------------|---|---|---|---|------|------------------------------|------|----------------------|
| 2X Series<br>Crimp<br>Fittings | 6Y  | High Pressure<br>Female Swivel  | AY  | Type "M"<br>Female Swivel   | Y4   | High Pressure<br>Tube Nipple | 92   | BSP Female<br>Swivel |
|                                |  |  |  |  | B-10 | B-10                         | B-11 | B-11                 |

## 16Y2X- High Pressure Female Swivel

Material: Nipple - Very high strength stainless steel  
Shell - Zinc-plated high strength carbon steel

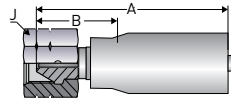


| Part Number | Nominal I.D. |      |      |      | Thread Size | A Overall Length |      | B Cutoff Allowance |      | J Hex |      | Maximum Working Pressure* |     |
|-------------|--------------|------|------|------|-------------|------------------|------|--------------------|------|-------|------|---------------------------|-----|
|             | #            | DN   | Size | inch |             | mm               | inch | mm                 | inch | mm    | inch | mm                        | psi |
| 16Y2X-4-025 | 4            | -025 | 5/32 | 4.0  | 9/16"-18    | 2.99             | 76   | 0.90               | 23   | 0.875 | 22   | —                         | —   |
| 16Y2X-4-03  | 5            | -03  | 3/16 | 4.8  | 9/16"-18    | 2.99             | 76   | 0.90               | 23   | 0.875 | 22   | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1AY2X- Type "M" Female Swivel

Material: Nipple - Very high strength stainless steel  
Shell - Zinc-plated high strength carbon steel  
C - Stainless steel



| Part Number       | Nominal I.D. |      |      |      | Thread Size | A Overall Length |      | B Cutoff Allowance |      | J Hex |      | Maximum Working Pressure* |     |
|-------------------|--------------|------|------|------|-------------|------------------|------|--------------------|------|-------|------|---------------------------|-----|
|                   | #            | DN   | Size | inch |             | mm               | inch | mm                 | inch | mm    | inch | mm                        | psi |
| 1AY2X-6-025       | 4            | -025 | 5/32 | 4.0  | 9/16"-18    | 2.40             | 61   | 0.94               | 24   | 0.875 | 22   | —                         | —   |
| 1AY2X-6-025C      | 4            | -025 | 5/32 | 4.0  | 9/16"-18    | 2.40             | 61   | 0.94               | 24   | 0.875 | 22   | —                         | —   |
| 1AY2X-6-03        | 5            | -03  | 3/16 | 4.8  | 9/16"-18    | 3.58             | 91   | 1.50               | 38   | 0.875 | 22   | —                         | —   |
| 1AY2X-6-03C       | 5            | -03  | 3/16 | 4.8  | 9/16"-18    | 3.58             | 91   | 1.50               | 38   | 0.875 | 22   | —                         | —   |
| 1AY2X-8-05-SA     | 8            | -05  | 5/16 | 7.9  | 3/4"-16     | 3.58             | 91   | 1.50               | 38   | 1.000 | 25   | —                         | —   |
| 1AY2X-10-05-SA    | 8            | -05  | 5/16 | 7.9  | 7/8"-14     | 3.58             | 91   | 1.50               | 38   | 1.250 | 32   | —                         | —   |
| 1AY2X-13-05-LB-SA | 8            | -05  | 5/16 | 7.9  | 1-1/8"-12   | 3.58             | 91   | 1.50               | 38   | 1.375 | 5    | —                         | —   |

\*Fitting is rated to the full working pressure of the hose



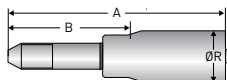
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 2X Series Fittings

### 1Y42X- High Pressure Tube Nipple

Material: Nipple - Very high strength stainless steel  
Shell - Zinc-plated high strength carbon steel  
C - Stainless steel

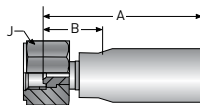


| Part Number    | Nominal I.D. |      |      |     | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | R Diameter |      | Maximum Working Pressure* |     |
|----------------|--------------|------|------|-----|---------------|------------------|-----|--------------------|----|------------|------|---------------------------|-----|
|                | DN           | Size | inch | mm  |               | inch             | mm  | inch               | mm | inch       | mm   | psi                       | bar |
| #              | ⊙            |      |      |     | ⚡             |                  |     |                    |    | ∅          |      | ↻                         |     |
| 1Y42X-4-025    | 4            | -025 | 5/32 | 4.0 | 1/4" - 28 LH  | 3.50             | 88  | 1.97               | 50 | 0.615      | 16   | —                         | —   |
| 1Y42X-4-025C   | 4            | -025 | 5/32 | 4.0 | 1/4" - 28 LH  | 3.50             | 88  | 1.97               | 50 | 0.615      | 16   | —                         | —   |
| 1Y42X-6-025    | 4            | -025 | 5/32 | 4.0 | 3/8" - 24 LH  | 3.90             | 98  | 2.17               | 55 | 0.615      | 16   | —                         | —   |
| 1Y42X-6-025C   | 4            | -025 | 5/32 | 4.0 | 3/8" - 24 LH  | 3.90             | 98  | 2.17               | 55 | 0.615      | 16   | —                         | —   |
| 1Y42X-4-03     | 5            | -03  | 3/16 | 4.8 | 1/4" - 28 LH  | 4.60             | 116 | 2.48               | 63 | 0.732      | 18.6 | —                         | —   |
| 1Y42X-4-03C    | 5            | -03  | 3/16 | 4.8 | 1/4" - 28 LH  | 4.60             | 116 | 2.48               | 63 | 0.732      | 18.6 | —                         | —   |
| 1Y42X-6-03     | 5            | -03  | 3/16 | 4.8 | 3/8" - 24 LH  | 4.60             | 116 | 2.28               | 58 | 0.750      | 19   | —                         | —   |
| 1Y42X-6-03C    | 5            | -03  | 3/16 | 4.8 | 3/8" - 24 LH  | 4.60             | 116 | 2.28               | 58 | 0.750      | 19   | —                         | —   |
| 1Y42X-9-03     | 5            | -03  | 3/16 | 4.8 | 9/16" - 18 LH | 4.60             | 116 | 2.48               | 63 | 0.750      | 19   | —                         | —   |
| 1Y42X-9-03C    | 5            | -03  | 3/16 | 4.8 | 9/16" - 18 LH | 4.60             | 116 | 2.48               | 63 | 0.750      | 19   | —                         | —   |
| 1Y42X-6-05     | 8            | -05  | 5/16 | 7.9 | 3/8" - 24 LH  | 4.60             | 116 | 2.48               | 63 | 0.905      | 23   | —                         | —   |
| 1Y42X-9-05     | 8            | -05  | 5/16 | 7.9 | 9/16" - 18 LH | 4.90             | 125 | 2.48               | 63 | 0.905      | 23   | —                         | —   |
| 1Y42X-9-05C    | 8            | -05  | 5/16 | 7.9 | 9/16" - 18 LH | 4.90             | 125 | 2.48               | 63 | 0.905      | 23   | —                         | —   |
| 1Y42X-9-05-XLT | 8            | -05  | 5/16 | 7.9 | 9/16" - 18 LH | 5.39             | 137 | 3.39               | 86 | 0.905      | 23   | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

### 1922X- BSP Female Swivel

Material: Nipple - Very high strength stainless steel  
Shell - Zinc-plated high strength carbon steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #           | ⊙            |      |      |     | ⚡           |                  |    |                    |    | ⬡     |    | ↻                         |     |
| 1922X-4-03  | 5            | -03  | 3/16 | 4.8 | G 1/4" - 19 | 3.11             | 79 | 1.02               | 26 | 0.875 | 22 | —                         | —   |

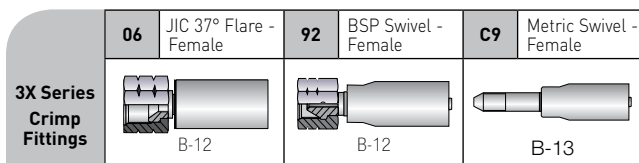
\* Fitting is rated to the full working pressure of the hose



#### WARNING

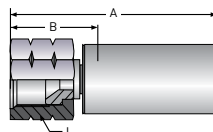
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 3X Series Fittings



## 1063X- JIC 37° Female Flare

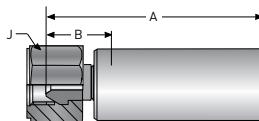
Material: Nipple - Stainless steel  
Shell - Stainless steel  
Nut - Stainless steel



| Part Number | Nominal I.D. |     |      |      | Thread Size | A Overall Length |      | B Cutoff Allowance |      | J Hex |      | Maximum Working Pressure* |     |
|-------------|--------------|-----|------|------|-------------|------------------|------|--------------------|------|-------|------|---------------------------|-----|
|             | #            | DN  | Size | inch |             | mm               | inch | mm                 | inch | mm    | inch | mm                        | psi |
| 1063X-6-06C | 10           | -06 | 3/8  | 9.5  | 9/16" - 18  | 2.72             | 69   | 1.30               | 33   | 0.870 | 22   | 10,000                    | 690 |
| 1063X-8-06C | 10           | -06 | 3/8  | 9.5  | 3/4" - 16   | 2.85             | 73   | 1.28               | 33   | 1.000 | 24   | 10,000                    | 690 |

## 1923X- BSP Female Swivel

Material: Nipple - Stainless steel  
Shell - Stainless steel  
Nut - Stainless steel



| Part Number | Nominal I.D. |     |      |      | Thread Size | A Overall Length |      | B Cutoff Allowance |      | J Hex |      | Maximum Working Pressure* |     |
|-------------|--------------|-----|------|------|-------------|------------------|------|--------------------|------|-------|------|---------------------------|-----|
|             | #            | DN  | Size | inch |             | mm               | inch | mm                 | inch | mm    | inch | mm                        | psi |
| 1923X-8-06C | 10           | -06 | 3/8  | 9.5  | G 1/2" - 14 | 2.60             | 66   | 0.87               | 22   | 1.180 | 30   | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



### WARNING

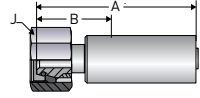
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# 3X Series Fittings

## 1C93X- Metric Swivel - Female

Material: Nipple - Stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number  | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    |      |    | B Cutoff Allowance |    |     |     | J Hex |  | Maximum Working Pressure* |  |
|--------------|--------------|------|------|-----|-------------|------------------|----|------|----|--------------------|----|-----|-----|-------|--|---------------------------|--|
|              | DN           | Size | inch | mm  |             | inch             | mm | inch | mm | inch               | mm | psi | bar |       |  |                           |  |
| #            |              |      |      |     |             |                  |    |      |    |                    |    |     |     |       |  |                           |  |
| 1C93X-14-06C | 10           | -06  | 3/8  | 9.5 | M 22 x 1.5  | 2.95             | 75 | 1.20 | 30 | 1.180              | 30 | —   | —   |       |  |                           |  |
| 1C93X-16-06C | 10           | -06  | 3/8  | 9.5 | M 24 x 1.5  | 3.50             | 88 | 1.35 | 34 | 1.180              | 30 | —   | —   |       |  |                           |  |

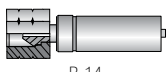
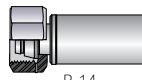
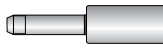
\* Fitting is rated to the full working pressure of the hose



### WARNING

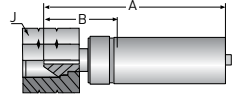
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# 5X Series Fittings

|                          |   |                        |   |                      |   |                             |
|--------------------------|---|------------------------|---|----------------------|---|-----------------------------|
| 5X Series Crimp Fittings | AY  | Type "M" Female Swivel | C9  | Metric Female Swivel | Y2  | Medium Pressure Tube Nipple |
|                          | <br>B-14 |                        | <br>B-14 |                      | <br>B-15 |                             |

## 6AY5X- Type "M" Female Swivel

Material: Nipple - Very high strength stainless steel  
SD / SUBSEA - High strength corrosion-resistant stainless steel  
Shell and Nut - Stainless steel

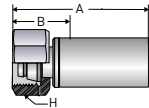






| Part Number           | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | J Hex   |    | Maximum Working Pressure*   |     |
|-----------------------|---|------|------|------|---|------------------|-----|--------------------|----|---|----|---|-----|
| #                     |  |      |      |      |  |                  |     |                    |    |  |    |  |     |
|                       | DN  | Size | inch | mm   |   | inch             | mm  | inch               | mm | inch  | mm | psi   | bar |
| 6AY5X-11-8C           | 12  | -08  | 1/2  | 12.7 | 1" - 12   | 4.25             | 108 | 1.72               | 44 | 1.250   | 32 | —   | —   |
| 6AY5X-16-12C          | 20  | -12  | 3/4  | 19   | 1-5/16" - 12  | 4.26             | 108 | 1.52               | 39 | 1.500   | 38 | —   | —   |
| 6AY5X-16-12C-INC725   | 20  | -12  | 3/4  | 19   | 1-5/16" - 12  | 4                | 102 | 1.25               | 32 | 1.500   | 38 | —   | —   |
| 6AY5X-11-8C-SUBSEA    | 12  | -08  | 1/2  | 12.7 | 1" - 12   | 4.22             | 107 | 1.98               | 50 | 1.250   | 32 | —   | —   |
| 1AY5X-11-08C-M-SUBSEA | 12  | -08  | 1/2  | 12.7 | 1"-12   | 4.42             | 112 | 1.87               | 47 | 1.250   | 32 | —   | —   |

\* Fitting is rated to the full working pressure of the hose

## 6C95X- Metric Female Swivel

Material: Nipple - Very high strength stainless steel  
Shell - Stainless steel  
Nut - Carbon steel, zinc-plated



| Part Number  | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure*   |     |
|--------------|---|------|------|------|---|------------------|-----|--------------------|----|---|----|---|-----|
| #            |  |      |      |      |  |                  |     |                    |    |  |    |  |     |
|              | DN  | Size | inch | mm   |   | inch             | mm  | inch               | mm | inch  | mm | psi   | bar |
| 6C95X-25-12C | 20  | -12  | 3/4  | 19.0 | M 36 x 2  | 4.37             | 111 | 1.60               | 41 | 1.810   | 46 | —   | —   |

\* Fitting is rated to the full working pressure of the hose



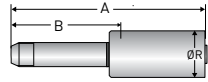
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 5X Series Fittings

## 1Y25X/6Y25X- Medium Pressure Tube Nipple

Material: Nipple - Very high strength stainless steel  
 SUBSEA - High strength corrosion resistant stainless steel  
 Shell - Stainless steel



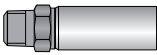
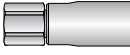
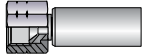

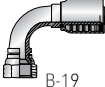
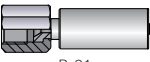

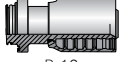
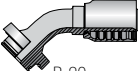
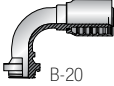

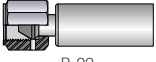
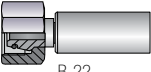
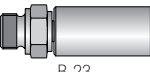
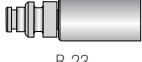
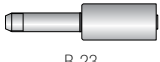
| Part Number           | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |     | R Diameter |    | Maximum Working Pressure |       |
|-----------------------|--------------|------|------|------|-------------|------------------|-----|--------------------|-----|------------|----|--------------------------|-------|
|                       | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm  | inch       | mm | psi                      | bar   |
| #                     |              |      |      |      |             |                  |     |                    |     |            |    |                          |       |
| 6AY5X-16-12C-INC725   | 20           | -12  | 3/4  | 19.0 | 1"-14 LH    | 7.17             | 182 | 5.07               | 129 | 1.500      | 38 | 20,000                   | 1,380 |
| 6Y25X-16-12C-SL       | 20           | -12  | 3/4  | 19.0 | 1"-14 LH    | 4.83             | 123 | 2.73               | 69  | 1.690      | 43 | 20,000                   | 1,380 |
| 1Y25X-9-08C-M-SUBSEA  | 12           | -08  | 1/2  | 12.7 | 9/16"-18 LH | 6.69             | 174 | 4.31               | 109 | 1.339      | 34 | 20,000                   | 1,380 |
| 1Y25X-12-08C-M-SUBSEA | 12           | -08  | 1/2  | 12.7 | 3/4"-16 LH  | 7.25             | 184 | 4.70               | 119 | 1.339      | 34 | 20,000                   | 1,380 |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 8X Series Fittings

|   |   |   |   |   |
|---|---|---|---|---|
| 2X Series<br>Crimp<br>Fittings  | <b>01</b> NPT Male  | <b>02</b> NPT - Female  | <b>06</b> JIC 37° Flare - Female  | <b>37</b> 45° JIC Subsea  |
|   | <br>B-16 | <br>B-17 | <br>B-18       | <br>B-19 |
|   | <b>39</b> 90° JIC Subsea  | <b>5Y</b> Med. Pressure Swivel - Female   | <b>92</b> BSP Female Swivel   | <b>9G</b> Straight Dual Seal Subsea   |
|   | <br>B-19 | <br>B-21 | <br>B-20       | <br>B-19 |
|   | <b>9M</b> 45° Dual Seal Subsea  | <b>9W</b> 90° Dual Seal Subsea  | <b>AY</b> Type M Swivel - Female  | <b>C3</b> Metric Swivel - Female  |
|   | <br>B-20 | <br>B-20 | <br>B-21, B-22 | <br>B-22 |
| <b>C9</b> Metric Swivel - Female  | <b>D9</b> BSP Rigid - Male  | <b>MB</b> Stecko  | <b>Y2</b> Med. Pressure - Male  |   |
| <br>B-22 | <br>B-23 | <br>B-23 | <br>B-23       |   |

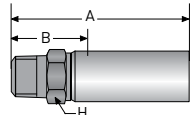
## 6018X- NPT Male





Material: Nipple - Very high strength stainless steel

- A - Carbon steel
- AC - Stainless steel

Shell - Very high strength stainless steel

- A - Carbon steel
- AC - Stainless steel



| Part Number | Nominal I.D.  |   |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex   |   | Maximum Working Pressure |       |
|-------------|---|---|------|------|-------------|------------------|----|--------------------|----|---|---|--------------------------|-------|
|             | DN  | Size  | inch | mm   |             | inch             | mm | inch               | mm | inch  | mm  | psi                      | bar   |
| #           |  |  |      |      |             |                  |    |                    |    |  |  |                          |       |
| 6018X-2-2A  | 4   | -025 5/32   | 4.0  | 4.0  | 1/8" - 27   | 1.86             | 47 | 0.76               | 19 | 0.630   | 16  | 15,000                   | 1,030 |
| 6018X-2-2AC | 4   | -025 5/32   | 4.0  | 4.0  | 1/8" - 27   | 2.18             | 55 | 1.80               | 46 | 0.500   | 13  | 15,000                   | 1,030 |
| 6018X-4-2AC | 4   | -025 5/32   | 4.0  | 4.0  | 1/4" - 18   | 2.44             | 62 | 1.35               | 34 | 0.620   | 16  | 15,000                   | 1,030 |
| 6018X-6-4   | 6   | -04 1/4   | 6.4  | 6.4  | 3/8" - 18   | 2.80             | 71 | 1.50               | 38 | 0.750   | 19  | 15,000                   | 1,030 |
| 6018X-8-8C  | 12  | -08 1/2   | 12.7 | 12.7 | 1/2" - 14   | 3.46             | 88 | 1.67               | 42 | 1.000   | 25  | 15,000                   | 1,030 |



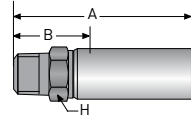
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 8X Series Fittings

## 1018X- NPT Male

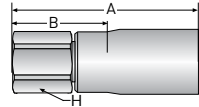
Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |       |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-------|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar   |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                          |       |
| 1018X-4-04  | 6            | -04  | 1/4  | 6.4 | 1/4" - 18   | 2.54             | 65 | 1.30               | 33 | 0.560 | 14 | 15,000                   | 1,030 |
| 1018X-4-04C | 6            | -04  | 1/4  | 6.4 | 1/4" - 18   | 2.54             | 65 | 1.30               | 33 | 0.560 | 14 | 15,000                   | 1,030 |
| 1018X-6-04  | 6            | -04  | 1/4  | 6.4 | 3/8" - 18   | 2.64             | 67 | 1.38               | 35 | 0.750 | 19 | 15,000                   | 1,030 |
| 1018X-6-04C | 6            | -04  | 1/4  | 6.4 | 3/8" - 18   | 2.64             | 67 | 1.38               | 35 | 0.750 | 19 | 15,000                   | 1,030 |

## 1028X- NPT Female

Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |       |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-------|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar   |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                          |       |
| 1028X-4-04  | 6            | -04  | 1/4  | 6.4 | 1/4" - 18   | 2.72             | 69 | 1.18               | 30 | 0.750 | 19 | 15,000                   | 1,030 |
| 1028X-4-04C | 6            | -04  | 1/4  | 6.4 | 1/4" - 18   | 2.72             | 69 | 1.18               | 30 | 0.750 | 19 | 15,000                   | 1,030 |



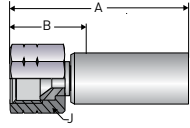
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 8X Series Fittings

## 6068X- JIC 37° Female Flare

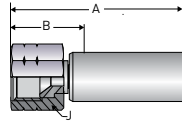
Material: Nipple - Stainless steel  
Shell - Stainless steel  
Nut - Stainless steel



| Part Number | Nominal I.D. |      |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure |     |
|-------------|--------------|------|------|------|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-----|
|             | DN           | Size | inch | mm   |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar |
| #           |              |      |      |      |             |                  |    |                    |    |       |    |                          |     |
| 6068X-4-2AC | 4            | -025 | 5/32 | 4.0  | 7/16" - 20  | 2.17             | 55 | 1.05               | 27 | 0.560 | 14 | 10,000                   | 690 |
| 6068X-4-04C | 12           | -08  | 1/2  | 12.7 | 3/4" - 1    | 3.10             | 79 | 1.30               | 33 | 0.870 | 22 | 10,000                   | 690 |

## 1068X- JIC 37° Female Flare

Material: Nipple - Carbon steel, zinc-plated  
C - Stainless steel  
SUBSEA - High strength stainless steel  
Shell / Nut - Carbon steel, zinc-plated  
C / SUBSEA - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |     |
|---------------------|--------------|------|------|------|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-----|
|                     | DN           | Size | inch | mm   |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar |
| #                   |              |      |      |      |             |                  |    |                    |    |       |    |                          |     |
| 1068X-4-025C-SUBSEA | 4            | -025 | 5/32 | 4.0  | 7/16" - 20  | 2.37             | 60 | 1.15               | 29 | 0.625 | 16 | 10,000                   | 690 |
| 1068X-4-04          | 6            | -04  | 1/4  | 6.4  | 7/16" - 18  | 2.24             | 57 | 1.02               | 26 | 0.750 | 19 | 10,000                   | 690 |
| 1068X-4-04C         | 6            | -04  | 1/4  | 6.4  | 7/16" - 20  | 2.24             | 57 | 1.02               | 26 | 0.750 | 19 | 10,000                   | 690 |
| 1068X-6-04          | 6            | -04  | 1/4  | 6.4  | 9/16"-18    | 2.17             | 55 | 0.94               | 24 | 0.750 | 19 | 10,000                   | 690 |
| 1068X-6-04C         | 6            | -04  | 1/4  | 6.4  | 9/16"-18    | 2.17             | 55 | 0.94               | 24 | 0.750 | 19 | 10,000                   | 690 |
| 1068X-16-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 1-5/16"-12  | 3.80             | 97 | 1.70               | 44 | 1.610 | 41 | 5,000                    | 345 |



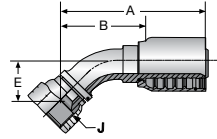
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 8X Series Fittings

## 1378X- JIC 45°

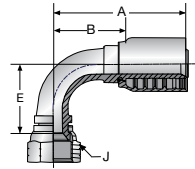
Material: Nipple - High strength stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |      | E    |      | J Hex |    | Maximum Working Pressure |     |
|---------------------|--------------|------|------|------|-------------|------------------|-----|--------------------|------|------|------|-------|----|--------------------------|-----|
|                     | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm   | inch | mm   | inch  | mm | psi                      | bar |
| #                   |              |      |      |      |             |                  |     |                    |      |      |      |       |    |                          |     |
| 1378X-16-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 1-5/16"-12  | 5.00             | 127 | 2.91               | 74.0 | 1.23 | 31.3 | 1.61  | 41 | 5,000                    | 345 |

## 1398X- JIC 90°

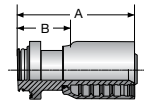
Material: Nipple - High strength stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |      | E    |      | J Hex |    | Maximum Working Pressure |     |
|---------------------|--------------|------|------|------|-------------|------------------|-----|--------------------|------|------|------|-------|----|--------------------------|-----|
|                     | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm   | inch | mm   | inch  | mm | psi                      | bar |
| #                   |              |      |      |      |             |                  |     |                    |      |      |      |       |    |                          |     |
| 1398X-16-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 1-5/16"-12  | 4.65             | 118 | 2.56               | 65.0 | 2.62 | 65.0 | 1.61  | 41 | 5,000                    | 345 |

## 19G8X- Straight Dual Seal

Material: Nipple - High strength stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |      | Maximum Working Pressure |     |
|---------------------|--------------|------|------|------|-------------|------------------|-----|--------------------|------|--------------------------|-----|
|                     | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm   | psi                      | bar |
| #                   |              |      |      |      |             |                  |     |                    |      |                          |     |
| 19G8X-16-16C-SUBSEA | 25           | -16  | 1    | 25.4 | —           | 3.812            | 97  | 1.726              | 43.8 | 5,000                    | 690 |
| 19G8X-24-16C-SUBSEA | 25           | -16  | 1    | 25.4 | —           | 4.062            | 103 | 1.976              | 50.2 | 5,000                    | 690 |



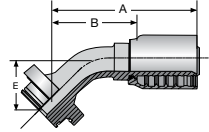
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 8X Series Fittings

## 19M8X- Dual Seal 45°

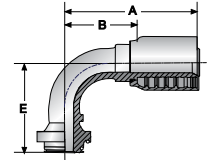
Material: Nipple - High strength stainless steel  
Shell - Stainless steel  
Nut - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Flange Diameter |      | A Overall Length |       | B Cutoff Allowance |      | E     |      | Maximum Working Pressure |     |
|---------------------|--------------|------|------|------|-----------------|------|------------------|-------|--------------------|------|-------|------|--------------------------|-----|
|                     | DN           | Size | inch | mm   | inch            | mm   | inch             | mm    | inch               | mm   | inch  | mm   | psi                      | bar |
| #                   |              |      |      |      |                 |      |                  |       |                    |      |       |      |                          |     |
| 19M8X-16-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 1.88            | 47.6 | 5.30             | 134.5 | 3.21               | 81.5 | 1.525 | 38.7 | 5,000                    | 345 |
| 19M8X-24-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 2.5             | 63.5 | 5.47             | 139   | 3.39               | 86.0 | 1.702 | 43.2 | 5,000                    | 345 |

## 19W8X- Dual Seal 90°

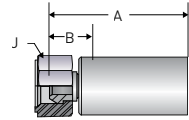
Material: Nipple - High strength stainless steel  
Shell - Stainless steel  
Nut - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Flange Diameter |      | A Overall Length |     | B Cutoff Allowance |      | E     |      | Maximum Working Pressure |     |
|---------------------|--------------|------|------|------|-----------------|------|------------------|-----|--------------------|------|-------|------|--------------------------|-----|
|                     | DN           | Size | inch | mm   | inch            | mm   | inch             | mm  | inch               | mm   | inch  | mm   | psi                      | bar |
| #                   |              |      |      |      |                 |      |                  |     |                    |      |       |      |                          |     |
| 19W8X-16-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 1.88            | 47.6 | 4.65             | 118 | 2.56               | 65.0 | 1.525 | 38.7 | 5,000                    | 345 |
| 19W8X-24-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 2.5             | 63.5 | 4.65             | 118 | 2.56               | 65.0 | 3.382 | 85.9 | 5,000                    | 345 |

## 1928X- BSP Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated  
Nut - Carbon steel, zinc-plated  
Suffix "C" - All components stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm |                           |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                           |
| 1928X-4-04  | 6            | -04  | 1/4  | 6.4 | G 1/4" - 19 | 2.20             | 56 | 0.98               | 25 | 0.750 | 19 | —                         |
| 1928X-4-04C | 6            | -04  | 1/4  | 6.4 | G 1/4" - 19 | 2.20             | 56 | 0.98               | 25 | 0.750 | 19 | —                         |

\* Fitting is rated to the full working pressure of the hose

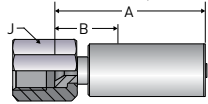
**WARNING**  
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# 8X Series Fittings

## 65Y8X/15Y8X- Medium Pressure Swivel - Female

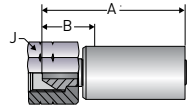
Material: Nipple - Carbon steel  
 Shell - Carbon steel, zinc-plated  
 Nut - Stainless steel  
 Suffix "C" - All components stainless steel



| Part Number | Nominal I.D. |     |      |      | Thread Size | A Overall Length |      | B Cutoff Allowance |      | J Hex |      | Maximum Working Pressure |       |
|-------------|--------------|-----|------|------|-------------|------------------|------|--------------------|------|-------|------|--------------------------|-------|
|             | #            | DN  | Size | inch |             | mm               | inch | mm                 | inch | mm    | inch | mm                       | psi   |
| 65Y8X-6-4   | 6            | -04 | 1/4  | 6.4  | 9/16"-18    | 2.78             | 71   | 1.55               | 39   | 0.750 | 19   | 20,000                   | 1,380 |
| 15Y8X-6-04C | 6            | -04 | 1/4  | 6.4  | 9/16"-18    | 2.24             | 57   | .937               | 24   | 0.750 | 19   | 20,000                   | 1,380 |

## 6AY8X- Type "M" Swivel - Female

Material: Nipple - High strength steel  
 AC - Stainless steel  
 C - High strength stainless steel  
 Shell - Carbon steel, zinc-plated  
 AC - Stainless steel  
 C - Stainless steel  
 Nut - High strength steel  
 AC - Stainless steel  
 C - Stainless steel



| Part Number | Nominal I.D. |     |      |      | Thread Size | A Overall Length |      | B Cutoff Allowance |      | J Hex |      | Maximum Working Pressure* |     |
|-------------|--------------|-----|------|------|-------------|------------------|------|--------------------|------|-------|------|---------------------------|-----|
|             | #            | DN  | Size | inch |             | mm               | inch | mm                 | inch | mm    | inch | mm                        | psi |
| 6AY8X-6-2AC | 3            | -02 | 1/8  | 3.2  | 9/16"-18    | 2.32             | 59   | 1.24               | 31   | 0.680 | 17   | —                         | —   |
| 6AY8X-6-4   | 6            | -04 | 1/4  | 6.4  | 9/16"-18    | 2.54             | 65   | 1.30               | 33   | 0.750 | 19   | —                         | —   |
| 6AY8X-8-5C  | 8            | -05 | 5/16 | 7.9  | 3/4" - 16   | 2.95             | 75   | 1.25               | 32   | 1.000 | 25   | —                         | —   |
| 6AY8X-11-8C | 12           | -08 | 1/2  | 12.7 | 1" - 12     | 3.27             | 83   | 1.49               | 38   | 1.250 | 32   | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



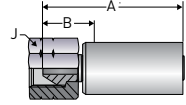
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 8X Series Fittings

## 1A Y8X- Type "M" Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated stainless steel

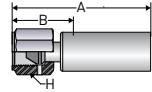


| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                           |     |
| 1AY8X-6-04  | 6            | -04  | 1/4  | 6.4 | 9/16"-18    | 2.68             | 68 | 1.38               | 35 | 0.670 | 17 | -                         | -   |
| 1AY8X-6-04C | 6            | -04  | 1/4  | 6.4 | 9/16"-18    | 2.68             | 68 | 1.38               | 35 | 0.670 | 17 | -                         | -   |

\* Fitting is rated to the full working pressure of the hose

## 1C38X- Metric Swivel - Female

Material: Nipple - High strength steel  
 Shell - Carbon steel, zinc-plated  
 Nut - Carbon steel

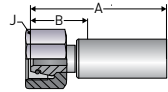


| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                           |     |
| 1C38X-8-04  | 6            | -04  | 1/4  | 6.4 | M 14 x 1.5  | 2.45             | 62 | 1.20               | 30 | 0.750 | 19 | -                         | -   |

\* Fitting is rated to the full working pressure of the hose

## 1C98X- Metric Swivel - Female

Material: Nipple - High strength steel  
 Shell - Carbon steel, zinc-plated  
 Nut - Carbon steel



| Part Number  | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|              | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #            |              |      |      |     |             |                  |    |                    |    |       |    |                           |     |
| 1C98X-8-04C  | 6            | -04  | 1/4  | 6.4 | M 16 x 1.5  | 2.32             | 59 | 1.06               | 27 | 0.750 | 19 | -                         | -   |
| 1C98X-10-04C | 6            | -04  | 1/4  | 6.4 | M 18 x 1.5  | 2.20             | 56 | 1.30               | 33 | 0.866 | 22 | -                         | -   |

\* Fitting is rated to the full working pressure of the hose



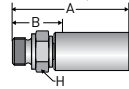
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# 8X Series Fittings

## 1D98X- BSP Rigid - Male

Material: Nipple - High strength steel  
Shell - Carbon steel, zinc-plated

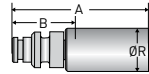


| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                           |     |
| 1D98X-4-4   | 6            | -04  | 1/4  | 6.4 | 1/4" BSPP   | 2.65             | 67 | 1.39               | 35 | 0.750 | 19 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1MB8X- Stecko - Male

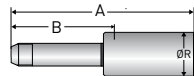
Material: Nipple - High strength steel  
Shell - Carbon steel, zinc-plated



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|------------|----|--------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch       | mm | psi                      | bar |
| #           |              |      |      |     |             |                  |    |                    |    |            |    |                          |     |
| 1MB8X-6-4   | 6            | -04  | 1/4  | 6.4 | —           | 2.85             | 72 | 1.58               | 40 | 0.860      | 22 | 10,000                   | 690 |

## 1Y28X- Medium Pressure - Male

Material: Nipple - Stainless steel  
Shell - Stainless steel



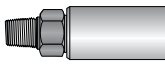
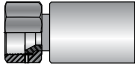
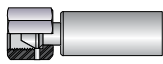
| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |     | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |       |
|-------------|--------------|------|------|-----|-------------|------------------|-----|--------------------|----|------------|----|--------------------------|-------|
|             | DN           | Size | inch | mm  |             | inch             | mm  | inch               | mm | inch       | mm | psi                      | bar   |
| #           |              |      |      |     |             |                  |     |                    |    |            |    |                          |       |
| 1Y28X-6-04C | 6            | -04  | 1/4  | 6.4 | 3/8"-24 LH  | 4.29             | 109 | 2.20               | 56 | 0.860      | 22 | 20,000                   | 1,380 |



### WARNING

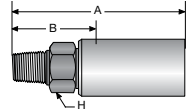
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# 9X Series Fittings

|                          |   |   |   |
|--------------------------|---|---|---|
| 9X Series Crimp Fittings | <b>01</b> NPT - Male  | <b>06</b> JIC 37° Flare - Female  | <b>AY</b> Type "M" Swivel - Female  |
|                          | <br>B-24 | <br>B-25 | <br>B-25 |

## 6019X- NPT Male

**Material:** Nipple - High strength steel  
 C - Stainless steel  
 Shell - Carbon steel  
 C - Stainless steel



| Part Number  | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|--------------|---|------|------|------|---|------------------|-----|--------------------|----|---|----|---|-------|
|              | DN  | Size | inch | mm   |   | inch             | mm  | inch               | mm | inch  | mm | psi   | bar   |
| <b>#</b>     |  |      |      |      |  |                  |     |                    |    |  |    |  |       |
| 6019X-6-6    | 10  | -06  | 3/8  | 9.5  | 3/8" - 18   | 2.95             | 75  | 1.35               | 34 | 0.750   | 19 | 15,000  | 1,030 |
| 6019X-6-6C   | 10  | -06  | 3/8  | 9.5  | 3/8" - 18   | 2.95             | 75  | 1.35               | 34 | 0.750   | 19 | 15,000  | 1,030 |
| 6019X-8-6    | 10  | -06  | 3/8  | 9.5  | 1/2" - 14   | 3.16             | 80  | 1.56               | 40 | 0.870   | 22 | 15,000  | 1,030 |
| 6019X-8-6C   | 10  | -06  | 3/8  | 9.5  | 1/2" - 14   | 3.16             | 80  | 1.56               | 40 | 0.870   | 22 | 15,000  | 1,030 |
| 6019X-8-8    | 12  | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.35             | 85  | 1.43               | 36 | 0.870   | 22 | 15,000  | 1,030 |
| 6019X-8-8C   | 12  | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.37             | 86  | 1.68               | 43 | 1.000   | 25 | 15,000  | 1,030 |
| 6019X-16-16C | 25  | -16  | 1    | 25.4 | 1" - 11 1/2   | 4.38             | 111 | 2.25               | 57 | 1.380   | 35 | 10,000  | 690   |



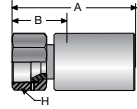
**WARNING**

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# 9X Series Fittings

## 6069X- JIC 37° Female Flare

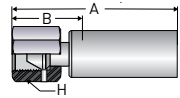
Material: Nipple - High strength stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size  | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |     |
|--------------|--------------|------|------|------|--------------|------------------|----|--------------------|----|-------|----|--------------------------|-----|
|              | DN           | Size | inch | mm   |              | inch             | mm | inch               | mm | inch  | mm | psi                      | bar |
| #            |              |      |      |      |              |                  |    |                    |    |       |    |                          |     |
| 6069X-4-4C   | 6            | -04  | 1/4  | 6.4  | 7/16" - 20   | 2.24             | 57 | 0.98               | 25 | 0.630 | 16 | 10,000                   | 690 |
| 6069X-6-4C   | 6            | -04  | 1/4  | 6.4  | 9/16"-18     | 2.36             | 60 | 1.10               | 28 | 0.680 | 17 | 10,000                   | 690 |
| 6069X-8-6C   | 10           | -06  | 3/8  | 9.5  | 3/4" - 16    | 2.79             | 71 | 1.19               | 30 | 1.000 | 25 | 10,000                   | 690 |
| 6069X-8-8C   | 12           | -08  | 1/2  | 12.7 | 3/4" - 16    | 3.00             | 76 | 1.30               | 33 | 0.870 | 22 | 10,000                   | 690 |
| 6069X-16-16C | 25           | -16  | 1    | 25.4 | 1-5/16" - 12 | 3.79             | 96 | 1.65               | 42 | 1.500 | 38 | 10,000                   | 690 |

## 6AY9X- Type "M" Swivel - Female

Material: Nipple - High strength stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size  | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|------|--------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|              | DN           | Size | inch | mm   |              | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #            |              |      |      |      |              |                  |    |                    |    |       |    |                           |     |
| 6AY9X-6-4C   | 6            | -04  | 1/4  | 6.4  | 9/16"-18     | 2.36             | 60 | 1.10               | 28 | 0.680 | 17 | —                         | —   |
| 6AY9X-8-6C   | 10           | -06  | 3/8  | 9.5  | 3/4" - 16    | 2.79             | 71 | 1.19               | 30 | 1.000 | 25 | —                         | —   |
| 6AY9X-11-8C  | 12           | -08  | 1/2  | 12.7 | 1" - 12      | 3.20             | 81 | 1.50               | 38 | 1.250 | 32 | —                         | —   |
| 6AY9X-16-16C | 25           | -16  | 1    | 25.4 | 1-5/16" - 12 | 3.79             | 96 | 1.65               | 42 | 1.500 | 38 | —                         | —   |

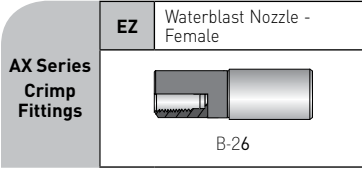
\* Fitting is rated to the full working pressure of the hose



### WARNING

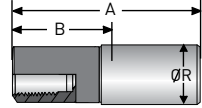
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# AX Series Fittings



## 6EZAX- Waterblast Nozzle - Female

Material: Nipple - Carbon steel  
Shell - Carbon steel



| Part Number | Nominal I.D. |      |      |     | Thread Size  | A Overall Length |    | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|--------------|------------------|----|--------------------|----|------------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |              | inch             | mm | inch               | mm | inch       | mm | psi                       | bar |
| #           |              |      |      |     |              |                  |    |                    |    |            |    |                           |     |
| 6EZAX-5-2A  | 3            | -02  | 1/8  | 3.2 | 1/4" - 28 LH | 3.5              | 88 | 1.97               | 50 | 0.615      | 16 | -                         | -   |

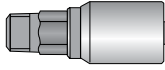
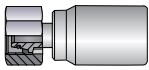
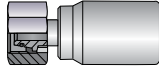
\* Fitting is rated to the full working pressure of the hose



**WARNING**

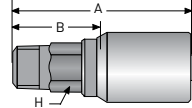
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# BL Series Fittings

|                                |   |            |   |                          |   |                        |
|--------------------------------|---|------------|---|--------------------------|---|------------------------|
| BL Series<br>Crimp<br>Fittings | <b>01</b>   | NPT - Male | <b>AY</b>   | Type "M" Swivel - Female | <b>C9</b>   | Metric Swivel - Female |
|                                |  |            |  |                          |  |                        |
|                                | B-27  |            | B-28  |                          | B-28  |                        |

## 101BL- NPT Male

Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|-------------|---|------|------|------|---|------------------|----|--------------------|----|---|----|---|-------|
|             | DN  | Size | inch | mm   |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar   |
| <b>#</b>    |  |      |      |      |  |                  |    |                    |    |  |    |  |       |
| 101BL-6-06  | 10  | -06  | 3/8  | 9.5  | 3/8" - 18   | 3.15             | 80 | 1.38               | 35 | 0.870   | 22 | 15,000  | 1,030 |
| 101BL-8-08  | 12  | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.54             | 90 | 1.77               | 45 | 0.870   | 22 | 15,000  | 1,030 |
| 101BL-8-08C | 12  | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.54             | 90 | 1.77               | 45 | 0.870   | 22 | 15,000  | 1,030 |
| 101BL-12-12 | 20  | -12  | 3/4  | 19.0 | 3/4" - 14   | 3.86             | 98 | 1.77               | 45 | 1.180   | 30 | 10,000  | 690   |



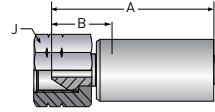
### WARNING

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# BL Series Fittings

## 1AYBL- Type "M" Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel  
 Nut - Carbon steel, zinc-plated  
 C - Stainless steel

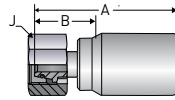


| Part Number  | Nominal I.D. |      |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|------|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|              | #            |      |      |      |             |                  |    |                    |    |       |    |                           |     |
|              | DN           | Size | inch | mm   |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| 1AYBL-11-06  | 10           | -06  | 3/8  | 9.5  | 1" - 12     | 3.03             | 77 | 1.24               | 31 | 1.250 | 32 | —                         | —   |
| 1AYBL-11-08  | 12           | -08  | 1/2  | 12.7 | 1" - 12     | 3.03             | 77 | 1.24               | 31 | 1.250 | 32 | —                         | —   |
| 1AYBL-11-08C | 12           | -08  | 1/2  | 12.7 | 1" - 12     | 3.03             | 77 | 1.24               | 31 | 1.250 | 32 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1C9BL- Metric Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
 Shell - Carbon steel, zinc-plated



| Part Number | Nominal I.D. |      |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|------|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|             | #            |      |      |      |             |                  |    |                    |    |       |    |                           |     |
|             | DN           | Size | inch | mm   |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| 1C9BL-14-06 | 10           | -06  | 3/8  | 9.5  | M 22 x 1.5  | 3.15             | 80 | 1.43               | 36 | 1.180 | 30 | —                         | —   |
| 1C9BL-16-06 | 10           | -06  | 3/8  | 9.5  | M 24 x 1.5  | 3.31             | 84 | 1.43               | 36 | 1.180 | 30 | —                         | —   |
| 1C9BL-14-08 | 12           | -08  | 1/2  | 12.7 | M 22 x 1.5  | 3.15             | 80 | 1.43               | 36 | 1.060 | 27 | —                         | —   |
| 1C9BL-16-08 | 12           | -08  | 1/2  | 12.7 | M 24 x 1.5  | 3.15             | 80 | 1.43               | 36 | 1.180 | 30 | —                         | —   |
| 1C9BL-25-12 | 20           | -12  | 3/4  | 19.0 | M 36 x 2.0  | 3.82             | 97 | 1.75               | 44 | 1.810 | 46 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

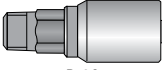
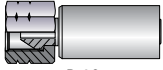
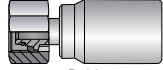


### WARNING

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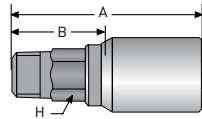






# BS Series Fittings

|                                |   |            |   |                          |   |                        |
|--------------------------------|---|------------|---|--------------------------|---|------------------------|
| BS Series<br>Crimp<br>Fittings | <b>01</b>   | NPT - Male | <b>AY</b>   | Type "M" Swivel - Female | <b>C9</b>   | Metric Swivel - Female |
|                                |  |            |  |                          |  |                        |
|                                | B-29  |            | B-29  |                          | B-30  |                        |

## 101BS- NPT Male

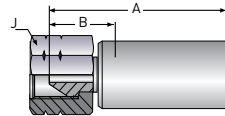
Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel







| Part Number | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|-------------|---|------|------|------|---|------------------|----|--------------------|----|---|----|---|-------|
|             | DN  | Size | inch | mm   |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar   |
| <b>#</b>    |  |      |      |      |  |                  |    |                    |    |  |    |  |       |
| 101BS-8-08  | 12  | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.66             | 93 | 1.56               | 40 | 0.870   | 22 | 15,000  | 1,030 |
| 101BS-8-08C | 12  | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.66             | 93 | 1.56               | 40 | 0.870   | 22 | 15,000  | 1,030 |

## 1AYBS- Type "M" Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number  | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | J Hex   |    | Maximum Working Pressure*   |     |
|--------------|---|------|------|------|---|------------------|----|--------------------|----|---|----|---|-----|
|              | DN  | Size | inch | mm   |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar |
| <b>#</b>     |  |      |      |      |  |                  |    |                    |    |  |    |  |     |
| 1AYBS-11-08  | 12  | -08  | 1/2  | 12.7 | 1" - 12   | 3.03             | 77 | 1.24               | 31 | 1.250   | 32 | —   | —   |
| 1AYBS-11-08C | 12  | -08  | 1/2  | 12.7 | 1" - 12   | 3.03             | 77 | 1.24               | 31 | 1.250   | 32 | —   | —   |

\* Fitting is rated to the full working pressure of the hose



### WARNING

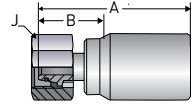
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).





A Hose  
 B Fittings  
 C Adapters & Valves  
 D Quick Couplings  
 E Accessories  
 F General Technical

# BS Series Fittings

## 1C9BS- Metric Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
 Shell - Carbon steel, zinc-plated  
 Nut - Carbon steel, zinc-plated



| Part Number | Nominal I.D. |   |      |      | Thread Size | A Overall Length  |      | B Cutoff Allowance |      | J Hex   |       | Maximum Working Pressure*   |     |     |
|-------------|--------------|---|------|------|-------------|---|------|--------------------|------|---|-------|---|-----|-----|
|             | #            |  |      |      |             |  |      |                    |      |  |       |  |     |     |
|             | DN           | Size  | inch | mm   |             |   | inch | mm                 | inch | mm  | inch  | mm  | psi | bar |
| 1C9BS-16-08 | 12           | -08   | 1/2  | 12.7 | M 24 x 1.5  |   | 3.50 | 89                 | 1.43 | 36  | 1.180 | 30  | —   | —   |

\* Fitting is rated to the full working pressure of the hose



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

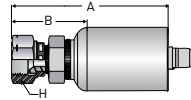
# CR Series Fittings

|                                |    |                        |    |                    |       |               |
|--------------------------------|----|------------------------|----|--------------------|-------|---------------|
| CR Series<br>Crimp<br>Fittings | 06 | JIC 37° Flare - Female | 6A | Dual Seal Straight | 6A-90 | 90° Dual Seat |
|                                |    |                        |    |                    |       |               |
|                                |    | B-31                   |    | B-31               |       | B-32          |

\* 6A code in all CR Series fittings refers to Dual Seal Connection, straights and 90°s

## 606CR- JIC 37° Female Flare

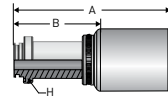
Material: Nipple - Stainless steel  
Shell - Stainless steel  
Nut - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size  | A Overall Length |     | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |     |
|--------------|--------------|------|------|------|--------------|------------------|-----|--------------------|----|-------|----|--------------------------|-----|
|              | DN           | Size | inch | mm   |              | inch             | mm  | inch               | mm | inch  | mm | psi                      | bar |
| #            |              |      |      |      |              |                  |     |                    |    |       |    |                          |     |
| 606CR-8-8C   | 12           | -08  | 1/2  | 12.7 | 3/4" - 16    | 3.88             | 98  | 2.13               | 54 | 1.000 | 25 | 10,000                   | 690 |
| 606CR-16-16C | 25           | -16  | 1    | 25.4 | 1 5/16" - 12 | 5.00             | 127 | 2.75               | 70 | 1.625 | 41 | 10,000                   | 690 |

## 66ACR- Straight Dual Seal

Material: Nipple - Stainless steel  
Shell - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Flange Size | A Overall Length |     | B Cutoff Allowance |     | H Hex |    | Maximum Working Pressure |     |
|---------------------|--------------|------|------|------|-------------|------------------|-----|--------------------|-----|-------|----|--------------------------|-----|
|                     | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm  | inch  | mm | psi                      | bar |
| #                   |              |      |      |      |             |                  |     |                    |     |       |    |                          |     |
| 66ACR-8-8C-SUBSEA   | 12           | -08  | 1/2  | 12.7 | 1/2         | 4.80             | 122 | 2.65               | 67  | 1.250 | 32 | 5,000                    | 340 |
| 66ACR-16-8C-SUBSEA  | 12           | -08  | 1/2  | 12.7 | 1           | 5.39             | 137 | 4.01               | 102 | 1.875 | 48 | 5,000                    | 340 |
| 66ACR-16-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 1           | 6.30             | 160 | 3.43               | 87  | 1.875 | 48 | 5,000                    | 340 |
| 66ACR-24-16C-SUBSEA | 25           | -16  | 1    | 25.4 | 1-1/2       | 5.30             | 135 | 2.43               | 62  | 2.500 | 64 | 5,000                    | 340 |



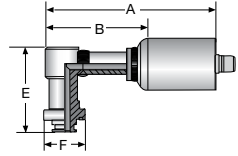
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# CR Series Fittings

## 66ACR-x-90- 90° Dual Seal

Material: Nipple - Stainless steel  
Shell - Stainless steel



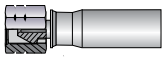
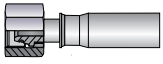
| Part Number            | Nominal I.D. |      | Flange Size |      | A Overall Length |      | B Cutoff Allowance |      | F    |       | E    |      | Maximum Working Pressure |       |     |
|------------------------|--------------|------|-------------|------|------------------|------|--------------------|------|------|-------|------|------|--------------------------|-------|-----|
|                        | DN           | Size | inch        | mm   | inch             | mm   | inch               | mm   | inch | mm    | inch | mm   | psi                      | bar   |     |
| #                      |              |      |             |      |                  |      |                    |      |      |       |      |      |                          |       |     |
| 66ACR-8-8C-SUBSEA-90   | 12           | -08  | 1/2         | 12.7 | 1/2              | 5.01 | 127                | 2.95 | 75   | 1.250 | 32   | 2.50 | 64                       | 5,000 | 340 |
| 66ACR-16-8C-SUBSEA-90  | 12           | -08  | 1/2         | 12.7 | 1                | 5.94 | 151                | 3.79 | 96   | 1.875 | 48   | 3.35 | 85                       | 5,000 | 340 |
| 66ACR-16-16C-SUBSEA-90 | 25           | -16  | 1           | 25.4 | 1                | 6.84 | 174                | 3.96 | 101  | 1.875 | 48   | 3.35 | 85                       | 5,000 | 340 |
| 66ACR-24-16C-SUBSEA-90 | 25           | -16  | 1           | 25.4 | 1-1/2            | 6.90 | 175                | 4.03 | 102  | 2.500 | 64   | 3.82 | 97                       | 5,000 | 340 |



**WARNING**

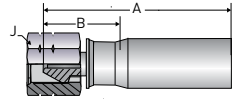
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).





# CX Series Fittings

|                                |   |                          |   |                        |
|--------------------------------|---|--------------------------|---|------------------------|
| CX Series<br>Crimp<br>Fittings | AY  | Type "M" Swivel - Female | C9  | Metric Swivel - Female |
|                                |  |                          |  |                        |
|                                |   | B-33                     |   | B-33                   |

## 1AYCX- Type "M" Swivel - Female

Material: Nipple - High Strength Stainless steel  
 Shell - Carbon steel, zinc plated  
 Nut - Carbon steel, zinc plated

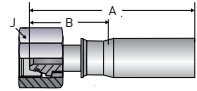






| Part Number  | Nominal I.D.  |      |      |      | Thread Size   |  | A Overall Length |     | B Cutoff Allowance |    | J Hex   |    | Maximum Working Pressure*   |     |
|--------------|---|------|------|------|---|--|------------------|-----|--------------------|----|---|----|---|-----|
|              | DN  | Size | inch | mm   |   |  | inch             | mm  | inch               | mm | inch  | mm | psi   | bar |
| #            |  |      |      |      |  |  |                  |     |                    |    |  |    |  |     |
| 1AYCX-16-16W | 25  | -16  | 1    | 25.4 | 1-5/16" - 12  |  | 5.75             | 146 | 2.84               | 72 | 1.61  | 41 | -   | -   |

\* Fitting is rated to the full working pressure of the hose

## 1C9CX- Metric Swivel - Female

Material: Nipple - High Strength Stainless steel  
 Shell - High Strength Carbon steel, zinc plated  
 Nut - High Strength Carbon steel, zinc plated



| Part Number  | Nominal I.D.  |      |      |      | Thread Size   |  | A Overall Length |     | B Cutoff Allowance |    | J Hex   |    | Maximum Working Pressure*   |     |
|--------------|---|------|------|------|---|--|------------------|-----|--------------------|----|---|----|---|-----|
|              | DN  | Size | inch | mm   |   |  | inch             | mm  | inch               | mm | inch  | mm | psi   | bar |
| #            |  |      |      |      |  |  |                  |     |                    |    |  |    |  |     |
| 1C9CX-30-16W | 25  | -16  | 1    | 25.4 | M42 x 2   |  | 4.76             | 121 | 2.17               | 55 | 2.17  | 55 | -   | -   |

\* Fitting is rated to the full working pressure of the hose

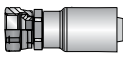
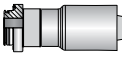


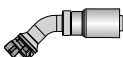



### WARNING

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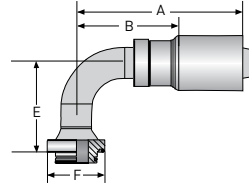
# E3/E4 Series\* Subsea Fittings



U.S. Patent No. 10,132,434

|                              |   |   |  |   |
|------------------------------|---|---|--|---|
| E3/E4 Series Subsea Fittings | 06 Straight JIC   | 9G Straight Dual Seal   | 9M 45° Dual Seal   | 9W 90° Dual Seal  |
|                              | <br>B-36 | <br>B-35 | <br>B-34                    | <br>B-34 |
|                              | 37 45° JIC  | 39 90° JIC  | *Patent Pending - Patented single piece bent tube design that reduces leak points and increases reliability. |   |
|                              | <br>B-36 | <br>B-35 |  |   |

## 19WE3/19WE4 - 90° Dual Seal

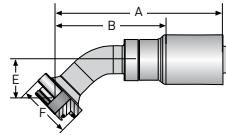
Material: Nipple - Stainless steel  
Shell - Stainless steel





| Part Number  | Nominal I.D.  |      | Flange Size | A Overall Length |       | B Cutoff Allowance |     | F    |    | E    |    | Maximum Working Pressure  |     |       |     |
|--------------|---|------|-------------|------------------|-------|--------------------|-----|------|----|------|----|---|-----|-------|-----|
|              | DN  | Size |             | inch             | mm    | inch               | mm  | inch | mm | inch | mm | psi   | bar |       |     |
| #            |  |      |             |                  |       |                    |     |      |    |      |    |  |     |       |     |
| 19WE3-8-8C   | 12  | -08  | 1/2         | 12.7             | 1/2   | 4.11               | 104 | 2.44 | 62 | 1.25 | 32 | 2.11  | 54  | 5,000 | 340 |
| 19WE3-16-8C  | 12  | -08  | 1/2         | 12.7             | 1     | 4.11               | 104 | 2.44 | 62 | 1.88 | 48 | 2.17  | 55  | 5,000 | 340 |
| 19WE4-16-16C | 25  | -16  | 1           | 25.4             | 1     | 5.45               | 138 | 3.13 | 80 | 1.88 | 48 | 3.27  | 83  | 5,000 | 340 |
| 19WE4-24-16C | 25  | -16  | 1           | 25.4             | 1-1/2 | 5.88               | 149 | 3.38 | 86 | 2.50 | 64 | 3.52  | 89  | 5,000 | 340 |

## 19ME3/19ME4 - 45° Dual Seal

Material: Nipple - Stainless steel  
Shell - Stainless steel



| Part Number  | Nominal I.D.  |      | Flange Size | A Overall Length |       | B Cutoff Allowance |     | F    |     | E    |    | Maximum Working Pressure  |     |       |     |
|--------------|---|------|-------------|------------------|-------|--------------------|-----|------|-----|------|----|---|-----|-------|-----|
|              | DN  | Size |             | inch             | mm    | inch               | mm  | inch | mm  | inch | mm | psi   | bar |       |     |
| #            |  |      |             |                  |       |                    |     |      |     |      |    |  |     |       |     |
| 19ME3-8-8C   | 12  | -08  | 1/2         | 12.7             | 1/2   | 4.49               | 114 | 2.68 | 68  | 1.25 | 32 | 0.87  | 22  | 5,000 | 340 |
| 19ME3-16-8C  | 12  | -08  | 1/2         | 12.7             | 1     | 4.53               | 115 | 2.68 | 68  | 1.88 | 48 | 0.92  | 23  | 5,000 | 340 |
| 19ME4-16-16C | 25  | -16  | 1           | 25.4             | 1     | 6.24               | 158 | 3.88 | 99  | 1.88 | 48 | 1.42  | 36  | 5,000 | 340 |
| 19ME4-24-16C | 25  | -16  | 1           | 25.4             | 1-1/2 | 6.32               | 161 | 3.93 | 100 | 2.50 | 64 | 1.86  | 47  | 5,000 | 340 |



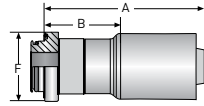
**WARNING**

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# E3/E4 Series\* Subsea Fittings

## 19GE3/19GE4 - Straight Dual Seal

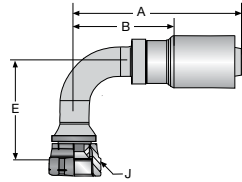
Material: Nipple - Stainless steel  
Shell - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Flange Size | A Overall Length |     | B Cutoff Allowance |    | F    |    | Maximum Working Pressure |     |
|--------------|--------------|------|------|------|-------------|------------------|-----|--------------------|----|------|----|--------------------------|-----|
|              | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm | inch | mm | psi                      | bar |
| #            |              |      |      |      |             |                  |     |                    |    |      |    |                          |     |
| 19GE3-8-8C   | 12           | -08  | 1/2  | 12.7 | 1/2         | 3.26             | 83  | 1.56               | 40 | 1.25 | 32 | 5,000                    | 340 |
| 19GE3-16-8C  | 12           | -08  | 1/2  | 12.7 | 1           | 3.26             | 83  | 1.56               | 40 | 1.25 | 32 | 5,000                    | 340 |
| 19GE4-16-16C | 25           | -16  | 1    | 25.4 | 1           | 4.35             | 110 | 2.00               | 51 | 1.88 | 48 | 5,000                    | 340 |
| 19GE4-24-16C | 25           | -16  | 1    | 25.4 | 1-1/2       | 4.48             | 114 | 2.13               | 54 | 2.50 | 64 | 5,000                    | 340 |

## 139E3/139E4 - 90° JIC

Material: Nipple - Stainless steel  
Shell - Stainless steel  
Nut - Stainless steel



| Part Number      | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |    | J Hex |    | E    |    | Maximum Working Pressure |     |
|------------------|--------------|------|------|------|-------------|------------------|-----|--------------------|----|-------|----|------|----|--------------------------|-----|
|                  | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm | inch  | mm | inch | mm | psi                      | bar |
| #                |              |      |      |      |             |                  |     |                    |    |       |    |      |    |                          |     |
| 139E3-4-4C       | 6            | -04  | 1/4  | 6.4  | 7/16"x20    | 2.41             | 61  | 1.38               | 35 | 5/8   | 16 | 0.83 | 21 | 5,000                    | 340 |
| 139E3-6-4C       | 6            | -04  | 1/4  | 6.4  | 9/16"x18    | 2.41             | 61  | 1.38               | 35 | 3/4   | 19 | 0.91 | 23 | 5,000                    | 340 |
| 139E3-8-8C-411   | 12           | -08  | 1/2  | 12.7 | 3/4"x 6     | 4.11             | 104 | 2.44               | 62 | 15/16 | 24 | 2.11 | 54 | 5,000                    | 340 |
| 139E4-16-16C-411 | 25           | -16  | 1    | 25.4 | 1-5/16"x12  | 5.69             | 145 | 3.32               | 84 | 1-5/8 | 41 | 3.27 | 83 | 5,000                    | 340 |

\*Patented single piece bent tube design that reduces leak points and increases reliability.



### WARNING

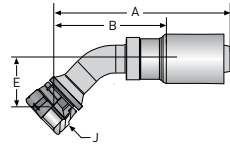
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# E3/E4 Series\* Subsea Fittings

U.S. Patent No. 10,132,434

## 137E3/137E4 - 45° JIC

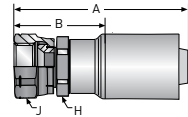
Material: Nipple - Stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number      | Nominal I.D. |      | Thread Size |      | A Overall Length |      | B Cutoff Allowance |      | J Hex |       | E  |      | Maximum Working Pressure |       |     |
|------------------|--------------|------|-------------|------|------------------|------|--------------------|------|-------|-------|----|------|--------------------------|-------|-----|
|                  | DN           | Size | inch        | mm   | inch             | inch | mm                 | inch | mm    | inch  | mm | inch | mm                       | psi   | bar |
| #                |              |      |             |      |                  |      |                    |      |       |       |    |      |                          |       |     |
| 137E3-4-4C       | 6            | -04  | 1/4         | 6.4  | 7/16" x 20       | 2.51 | 64                 | 1.50 | 38    | 5/8   | 16 | 0.39 | 10                       | 5,000 | 340 |
| 137E3-6-4C       | 6            | -04  | 1/4         | 6.4  | 9/16" x 18       | 2.70 | 69                 | 1.68 | 43    | 3/4   | 19 | 0.43 | 11                       | 5,000 | 340 |
| 137E3-8-8C-411   | 12           | -08  | 1/2         | 12.7 | 3/4" x 16        | 4.75 | 121                | 3.06 | 78    | 15/16 | 24 | 1.14 | 29                       | 5,000 | 340 |
| 137E4-16-16C-411 | 25           | -16  | 1           | 25.4 | 1-5/16" x 12     | 6.50 | 165                | 4.13 | 105   | 1-5/8 | 41 | 1.69 | 43                       | 5,000 | 340 |

## 106E3/106E4 - Straight JIC

Material: Nipple - Stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number  | Nominal I.D. |      | Thread Size |      | A Overall Length |      | B Cutoff Allowance |      | J Hex |       | H Hex |       | Maximum Working Pressure |       |     |
|--------------|--------------|------|-------------|------|------------------|------|--------------------|------|-------|-------|-------|-------|--------------------------|-------|-----|
|              | DN           | Size | inch        | mm   | inch             | inch | mm                 | inch | mm    | inch  | mm    | inch  | mm                       | psi   | bar |
| #            |              |      |             |      |                  |      |                    |      |       |       |       |       |                          |       |     |
| 106E3-4-4C   | 6            | -04  | 1/4         | 6.4  | 7/16" x 20       | 2.46 | 62                 | 1.44 | 37    | 5/8   | 16    | 5/8   | 16                       | 5,000 | 340 |
| 106E3-6-4C   | 6            | -04  | 1/4         | 6.4  | 9/16" x 18       | 2.55 | 65                 | 1.50 | 38    | 3/4   | 19    | 5/8   | 16                       | 5,000 | 340 |
| 106E3-8-8C   | 12           | -08  | 1/2         | 12.7 | 3/4" x 16        | 3.55 | 90                 | 1.88 | 48    | 1     | 25    | 15/16 | 24                       | 5,000 | 340 |
| 106E4-16-16C | 25           | -16  | 1           | 25.4 | 1-5/16" x 12     | 4.76 | 121                | 2.38 | 60    | 1-5/8 | 41    | 1-1/2 | 41                       | 5,000 | 340 |

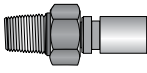
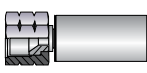
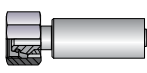
\*Patented single piece bent tube design that reduces leak points and increases reliability.

**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

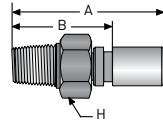






# EX Series Fittings

|                                |   |   |   |
|--------------------------------|---|---|---|
| EX Series<br>Crimp<br>Fittings | <b>01</b> NPT - Male  | <b>06</b> JIC 37° Flare - Female  | <b>C9</b> Metric Swivel - Female  |
|                                | <br>B-37 | <br>B-37 | <br>B-38 |

## 101EX/601EX- NPT Male

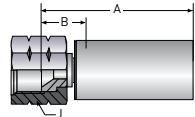
Material: Nipple - Carbon steel, zinc-plated  
C - Stainless steel  
Shell - Carbon steel, zinc-plated  
C - Stainless steel







| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-------|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar   |
| <b>#</b>    |  |      |      |     |  |                  |    |                    |    |  |    |  |       |
| 101EX-4-012 | 2   | -012 | 5/64 | 2   | 1/4" - 18   | 1.54             | 39 | 1.10               | 28 | 0.560   | 14 | 15,000  | 1,030 |
| 101EX-2-012 | 2   | -012 | 5/64 | 2   | 1/8" - 27   | 1.37             | 35 | 0.93               | 24 | 0.44  | 11 | 15,000  | 1,030 |
| 601EX-2-2C  | 3   | -02  | 1/8  | 3.2 | 1/8" - 27   | 1.33             | 34 | .93                | 24 | 0.44  | 11 | 15,000  | 1,030 |

## 106EX- JIC 37° Female Flare

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated  
Nut - Carbon steel, zinc-plated



| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | J Hex   |    | Maximum Working Pressure  |     |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-----|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar |
| <b>#</b>    |  |      |      |     |  |                  |    |                    |    |  |    |  |     |
| 106EX-4-012 | 2   | -012 | 5/64 | 2   | 7/16" - 20  | 1.00             | 25 | 0.55               | 14 | 0.670   | 17 | 10,000  | 690 |
| 106EX-4-02  | 3   | -02  | 1/8  | 3.2 | 7/16" - 20  | .945             | 24 | 0.55               | 14 | 0.670   | 17 | 10,000  | 690 |



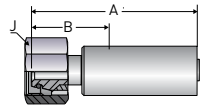
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# EX Series Fittings

## 1C9EX- Metric Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
 Shell - Carbon steel, zinc-plated  
 Nut - Carbon steel, zinc-plated



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                          |     |
| 1C9EX-8-012 | 2            | -012 | 5/64 | 2   | M 16 x 1.5  | 1.50             | 37 | 1.14               | 29 | 0.750 | 19 | —                        | —   |
| 1C9EX-6-012 | 2            | -012 | 5/64 | 2   | M 14 x 1.5  | 1.30             | 32 | 0.83               | 21 | 0.670 | 17 | —                        | —   |
| 1C9EX-8-02  | 3            | -02  | 1/8  | 3.2 | M 16 x 1.5  | 1.30             | 32 | 0.87               | 22 | 0.750 | 19 | —                        | —   |

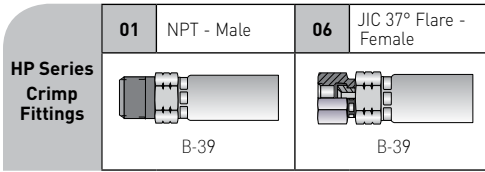
\* Fitting is rated to the full working pressure of the hose



**WARNING**

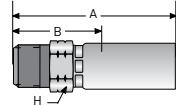
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# HP Series Fittings



## 101HP- NPT Male

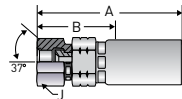
Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |       |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-------|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar   |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                          |       |
| 101HP-4-3   | 5            | -03  | 3/16 | 4.8 | 1/4" - 18   | 2.12             | 54 | 1.38               | 35 | 0.690 | 17 | 15,000                   | 1,030 |
| 101HP-6-3   | 5            | -03  | 3/16 | 4.8 | 3/8" - 18   | 2.22             | 56 | 1.50               | 38 | 0.750 | 19 | 15,000                   | 1,030 |
| 101HP-4-4   | 6            | -04  | 1/4  | 6.4 | 1/4" - 18   | 2.28             | 58 | 1.38               | 35 | 0.690 | 17 | 15,000                   | 1,030 |
| 101HP-6-4   | 6            | -04  | 1/4  | 6.4 | 3/8" - 18   | 2.38             | 60 | 1.38               | 35 | 0.750 | 19 | 15,000                   | 1,030 |
| 101HP-6-4C  | 6            | -04  | 1/4  | 6.4 | 3/8" - 18   | 2.38             | 60 | 1.38               | 35 | 0.750 | 19 | 15,000                   | 1,030 |
| 101HP-6-6   | 10           | -06  | 3/8  | 9.5 | 3/8" - 18   | 2.70             | 69 | 1.50               | 38 | 0.750 | 19 | 15,000                   | 1,030 |
| 101HP-8-6   | 10           | -06  | 3/8  | 9.5 | 1/2" - 14   | 2.96             | 75 | 1.75               | 44 | 0.940 | 24 | 15,000                   | 1,030 |

## 106HP- JIC 37° Female Flare

Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



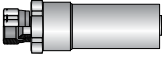
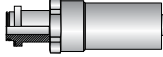
| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                          |     |
| 106HP-4-3   | 5            | -03  | 3/16 | 4.8 | 7/16" - 20  | 2.20             | 56 | 1.44               | 37 | 0.630 | 16 | 10,000                   | 690 |
| 106HP-4-4   | 6            | -04  | 1/4  | 6.4 | 7/16" - 20  | 2.49             | 63 | 1.56               | 40 | 0.630 | 16 | 10,000                   | 690 |
| 106HP-6-4   | 6            | -04  | 1/4  | 6.4 | 9/16" - 18  | 2.59             | 66 | 1.69               | 43 | 0.750 | 19 | 10,000                   | 690 |
| 106HP-6-6   | 10           | -06  | 3/8  | 9.5 | 9/16" - 18  | 2.91             | 74 | 1.63               | 41 | 0.750 | 19 | 10,000                   | 690 |



### WARNING

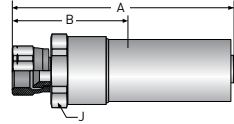
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).





# HV Series Fittings

|                          |   |                        |   |                    |
|--------------------------|---|------------------------|---|--------------------|
| HV Series Crimp Fittings | 06  | JIC 37° Flare - Female | 9G  | Straight Dual Seal |
|                          | <br>B-40 |                        | <br>B-40 |                    |

## 106HV - JIC 37° Female Flare

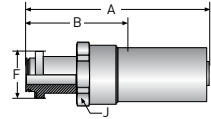
Material: 316 Stainless Steel







| Part Number  | Nominal I.D.  |      |      |      | Thread Size   |  | A Overall Length |     | B Cutoff Allowance |    | J Hex   |    | Maximum Working Pressure  |     |
|--------------|---|------|------|------|---|--|------------------|-----|--------------------|----|---|----|---|-----|
|              | DN  | Size | inch | mm   | inch mm   |  | inch             | mm  | inch               | mm | inch  | mm | psi   | bar |
| #            |  |      |      |      |  |  |                  |     |                    |    |  |    |  |     |
| 106HV-8-8C   | 12  | -08  | 1/2  | 12.7 | 9/16"-18 LH   |  | 4.25             | 108 | 2.0                | 51 | 1-3/8   | 35 | 5,000   | 345 |
| 106HV-16-16C | 25  | -16  | 1    | 25.4 | 9/16"-18 LH   |  | 6.55             | 166 | 3.5                | 89 | 2-3/8   | 60 | 5,000   | 345 |

## 19GHV - Straight Dual Seal

Material: 316 Stainless Steel



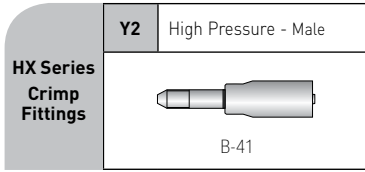
| Part Number  | Nominal I.D.  |      |      |      | Flange Size |  | A Overall Length |     | B Cutoff Allowance |     | F Flange Diameter   |    | J Hex   |    | Maximum Working Pressure  |     |
|--------------|---|------|------|------|-------------|--|------------------|-----|--------------------|-----|---|----|---|----|---|-----|
|              | DN  | Size | inch | mm   | inch mm     |  | inch             | mm  | inch               | mm  | inch  | mm | inch  | mm | psi   | bar |
| #            |  |      |      |      |             |  |                  |     |                    |     |  |    |  |    |  |     |
| 19GHV-8-8C   | 12  | -08  | 1/2  | 12.7 | 1/2         |  | 5.37             | 136 | 3.15               | 80  | 1.25  | 32 | 1-3/8   | 35 | 5,000   | 345 |
| 19GHV-16-16C | 25  | -16  | 1    | 25.4 | 1           |  | 7.95             | 202 | 4.90               | 124 | 1.88  | 48 | 2-3/8   | 60 | 5,000   | 345 |



**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

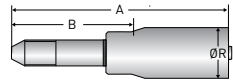
# HX Series Fittings







## 6Y2HX- High Pressure Male

only qualified with 2440D-05V32

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated



| Part Number     | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | R Diameter  |    | Maximum Working Pressure  |       |
|-----------------|---|------|------|-----|---|------------------|-----|--------------------|----|---|----|---|-------|
|                 | DN  | Size | inch | mm  |   | inch             | mm  | inch               | mm | inch  | mm | psi   | bar   |
| <b>#</b>        |  |      |      |     |  |                  |     |                    |    |  |    |  |       |
| 6Y2HX-9-5C-THD  | 8   | -05  | 5/16 | 7.9 | 9/16"-18 LH   | 3.83             | 97  | 2.13               | 54 | .95   | 24 | 20,000  | 1,380 |
| 6Y2HX-9-5C-LONG | 8   | -05  | 5/16 | 7.9 | 9/16"-18 LH   | 4.53             | 115 | 2.83               | 72 | .95   | 24 | 20,000  | 1,380 |

Note: -THD: Extra long thread

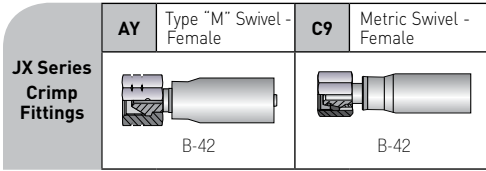
-LONG: Extra long tube



### WARNING

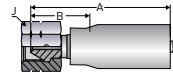
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# JX Series Fittings



## 1AYJX - Type "M" Swivel - Female

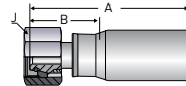
Material: Nipple - Stainless steel  
Shell - Carbon steel, zinc-plated



| Part Number  | Nominal I.D. |      |      |      | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure |      |
|--------------|--------------|------|------|------|---------------|------------------|----|--------------------|----|-------|----|--------------------------|------|
|              | DN           | Size | inch | mm   |               | inch             | mm | inch               | mm | inch  | mm | psi                      | bar  |
| <b>#</b>     |              |      |      |      |               |                  |    |                    |    |       |    |                          |      |
| 1AYJX-16-12W | 20           | -12  | 3/4  | 19.0 | 1" 5/16-12UNF | 3.54             | 90 | 1.22               | 31 | 1.61  | 41 | 23,200                   | 1600 |

## 1C9JX- Metric Swivel - Female

Material: Nipple - Stainless steel  
Shell - Carbon steel, zinc-plated



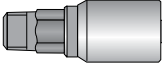
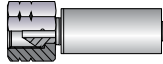
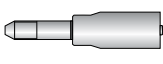
| Part Number  | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure |      |
|--------------|--------------|------|------|------|-------------|------------------|-----|--------------------|----|-------|----|--------------------------|------|
|              | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm | inch  | mm | psi                      | bar  |
| <b>#</b>     |              |      |      |      |             |                  |     |                    |    |       |    |                          |      |
| 1C9JX-25-12W | 20           | -12  | 3/4  | 19.0 | M36x2       | 4.25             | 108 | 1.93               | 49 | 1.81  | 46 | 23,200                   | 1600 |



**WARNING**

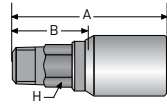
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).





# KY Series Fittings

|                                |   |   |   |
|--------------------------------|---|---|---|
| KY Series<br>Crimp<br>Fittings | <b>01</b> NPT - Male  | <b>AY</b> Type "M" Swivel - Female  | <b>Y4</b> High Pressure - Male  |
|                                | <br>B-43 | <br>B-43 | <br>B-44 |

## 101KY- NPT Male

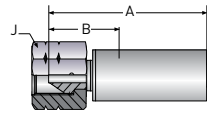
Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated







| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-------|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar   |
| <b>#</b>    |  |      |      |     |  |                  |    |                    |    |  |    |  |       |
| 101KY-4-04  | 6   | -04  | 1/4  | 6.4 | 1/4" - 18   | 2.22             | 56 | 1.14               | 29 | 0.390   | 10 | 15,000  | 1,030 |
| 101KY-4-05  | 8   | -05  | 5/16 | 7.9 | 1/4" - 18   | 2.70             | 69 | 1.42               | 36 | 0.511   | 13 | 15,000  | 1,030 |
| 101KY-6-04  | 6   | -04  | 1/4  | 6.4 | 3/8" - 18   | 2.64             | 67 | 1.38               | 35 | 0.670   | 17 | 15,000  | 1,030 |

## 1AYKY- Type "M" Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated  
Nut - Carbon steel, zinc-plated



| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | J   |    | Maximum Working Pressure  |     |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-----|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar |
| <b>#</b>    |  |      |      |     |  |                  |    |                    |    |  |    |  |     |
| 1AYKY-6-04  | 6   | -04  | 1/4  | 6.4 | 9/16"-18  | 2.28             | 58 | 0.98               | 25 | 0.748   | 19 | -   | -   |
| 1AYKY-8-05  | 8   | -05  | 5/16 | 7.9 | 3/4" - 16   | 2.64             | 67 | 1.22               | 31 | 1.063   | 27 | -   | -   |



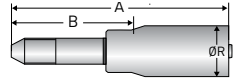
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# KY Series Fittings

## 1Y4KY- High Pressure - Male

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|------------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch       | mm | psi                       | bar |
| #           |              |      |      |     |             |                  |    |                    |    |            |    |                           |     |
| 1Y4KY-9-05  | 8            | -05  | 5/16 | 7.9 | 9/16"-18    | 3.90             | 99 | 2.60               | 66 | 0.787      | 20 | -                         | -   |

\* Fitting is rated to the full working pressure of the hose

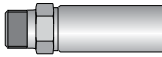



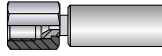





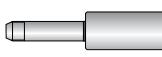
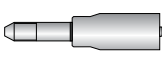
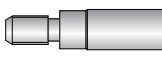


**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

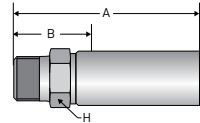


# LX Series Fittings

|   |   |   |   |   |
|---|---|---|---|---|
| LX Series<br>Crimp<br>Fittings  | <b>01</b> NPT - Male  | <b>06</b> JIC 37° Flare - Female  | <b>92</b> BSP Swivel - Female   | <b>5Y</b> Med. Pressure Swivel - Female   |
|   | <br>B-45, B-46 | <br>B-46, B-47 | <br>B-48       | <br>B-48 |
|   | <b>6Y</b> High Pressure Swivel - Female   | <b>AY</b> Type "M" Swivel - Female  | <b>C9</b> Metric Swivel - Female  | <b>HE</b> Hammer Union - Male Cone  |
|   | <br>B-48       | <br>B-49, B-50 | <br>B-51       | <br>B-52 |
|   | <b>HN</b> Hammer Union - Female Cone  | <b>HY</b> Waterblast Nozzle - Female  | <b>Y2</b> Med. Pressure - Male  | <b>Y4</b> High Pressure - Male  |
| <br>B-52 | <br>B-53       | <br>B-53, B-54 | <br>B-54, B-55 |   |
| <b>YH</b> Waterblast Nozzle - Male  | <br>B-55, B-56 |   |   |   |

## 101LX- NPT Male

Material: Nipple - Carbon steel, zinc-plated C - Stainless steel  
 Shell - Carbon steel, zinc-plated C - Stainless steel  
 Nut - Carbon steel, zinc-plated C / SUBSEA - Stainless steel



| Part Number | Nominal I.D. |      | Thread Size |      | A Overall Length |      | B Cutoff Allowance |      | H Hex |       | Maximum Working Pressure |        |       |
|-------------|--------------|------|-------------|------|------------------|------|--------------------|------|-------|-------|--------------------------|--------|-------|
| #           | DN           | Size | inch        | mm   | inch             | mm   | inch               | mm   | inch  | mm    | psi                      | bar    |       |
| 101LX-4-04  | 6            | -04  | 1/4         | 6.4  | 1/4"-18          | 3.15 | 80                 | 1.42 | 36    | 0.560 | 14                       | 15,000 | 1,030 |
| 101LX-6-04  | 6            | -04  | 1/4         | 6.4  | 3/8"-18          | 3.15 | 80                 | 1.42 | 36    | 0.750 | 19                       | 15,000 | 1,030 |
| 101LX-8-08  | 12           | -08  | 1/2         | 12.7 | 1/2"-14          | 3.58 | 91                 | 1.46 | 37    | 0.87  | 22                       | 15,000 | 1,030 |
| 101LX-8-08C | 12           | -08  | 1/2         | 12.7 | 1/2"-14          | 3.58 | 91                 | 1.46 | 37    | 0.87  | 22                       | 15,000 | 1,030 |



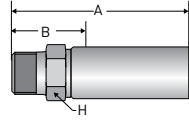
### WARNING

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# LX Series Fittings

## 601LX- NPT Male

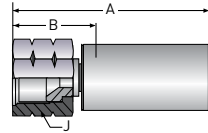
Material: Nipple - High strength steel  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |       |
|--------------|--------------|------|------|------|-------------|------------------|-----|--------------------|----|-------|----|--------------------------|-------|
|              | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm | inch  | mm | psi                      | bar   |
| #            |              |      |      |      |             |                  |     |                    |    |       |    |                          |       |
| 601LX-4-3    | 5            | -03  | 3/16 | 4.8  | 1/4" - 18   | 2.86             | 73  | 1.30               | 33 | 0.560 | 14 | 15,000                   | 1,030 |
| 601LX-4-5    | 8            | -05  | 5/16 | 7.9  | 1/4" - 18   | 2.78             | 71  | 1.18               | 30 | 0.630 | 16 | 15,000                   | 1,030 |
| 601LX-4-5C   | 8            | -05  | 5/16 | 7.9  | 1/4" - 18   | 2.78             | 71  | 1.18               | 30 | 0.630 | 16 | 15,000                   | 1,030 |
| 601LX-6-5    | 8            | -05  | 5/16 | 7.9  | 3/8" - 18   | 3.96             | 75  | 1.37               | 35 | 0.750 | 19 | 15,000                   | 1,030 |
| 601LX-6-5C   | 8            | -05  | 5/16 | 7.9  | 3/8" - 18   | 3.96             | 75  | 1.37               | 35 | 0.750 | 19 | 15,000                   | 1,030 |
| 601LX-8-8    | 12           | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.75             | 95  | 1.70               | 43 | 1.130 | 29 | 15,000                   | 1,030 |
| 601LX-8-8C   | 12           | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.75             | 95  | 1.70               | 43 | 1.130 | 29 | 15,000                   | 1,030 |
| 601LX-12-12C | 20           | -12  | 3/4  | 19.0 | 3/4" - 14   | 4.75             | 121 | 2.10               | 53 | 1.380 | 35 | 10,000                   | 690   |
| 601LX-16-12C | 20           | -12  | 3/4  | 19.0 | 1" - 11 1/2 | 4.90             | 124 | 2.25               | 57 | 1.380 | 35 | 10,000                   | 690   |
| 601LX-16-16C | 25           | -16  | 1    | 25.4 | 1" - 11 1/2 | 5.00             | 125 | 2.50               | 64 | 1.380 | 35 | 10,000                   | 690   |

## 606LX- JIC 37° Female Flare

Material: Nipple - High strength stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size  | A Overall Length |     | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure |     |
|--------------|--------------|------|------|------|--------------|------------------|-----|--------------------|----|-------|----|--------------------------|-----|
|              | DN           | Size | inch | mm   |              | inch             | mm  | inch               | mm | inch  | mm | psi                      | bar |
| #            |              |      |      |      |              |                  |     |                    |    |       |    |                          |     |
| 606LX-6-5C   | 8            | -05  | 5/16 | 7.9  | 9/16"-18     | 2.70             | 69  | 1.10               | 28 | 0.75  | 19 | 10,000                   | 690 |
| 606LX-8-5C   | 8            | -05  | 5/16 | 7.9  | 3/4" - 16    | 2.82             | 72  | 1.22               | 31 | 1.00  | 25 | 10,000                   | 690 |
| 606LX-8-8C   | 12           | -08  | 1/2  | 12.7 | 3/4" - 16    | 3.80             | 96  | 1.75               | 44 | 1.063 | 27 | 10,000                   | 690 |
| 606LX-16-12C | 20           | -12  | 3/4  | 19.0 | 1-5/16" - 12 | 4.29             | 109 | 1.68               | 43 | 1.50  | 38 | 10,000                   | 690 |
| 606LX-16-16C | 25           | -16  | 1    | 25.4 | 1-5/16" - 12 | 3.79             | 96  | 1.65               | 42 | 1.50  | 38 | 10,000                   | 690 |



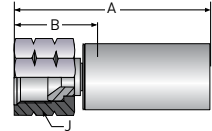
**WARNING**

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# LX Series Fittings

## 106LX- JIC 37° Female Flare

Material: Nipple - Carbon steel, zinc-plated C - Stainless steel  
 Shell - Carbon steel, zinc-plated C - Stainless steel  
 Nut - Carbon steel, zinc-plated C / SUBSEA - Stainless steel



| Part Number          | Nominal I.D. |      |      |      | Thread Size   |      | A Overall Length |      | B Cutoff Allowance |      | J Hex |        | Maximum Working Pressure |     |
|----------------------|--------------|------|------|------|---------------|------|------------------|------|--------------------|------|-------|--------|--------------------------|-----|
|                      | DN           | Size | inch | mm   |               |      | inch             | mm   | inch               | mm   | inch  | mm     | psi                      | bar |
| #                    |              |      |      |      |               |      |                  |      |                    |      |       |        |                          |     |
| 106LX-6-04C          | 6            | -04  | 1/4  | 6.4  | 9/16"-18      | 3.03 | 77               | 1.26 | 32                 | 0.75 | 19    | 10,000 | 690                      |     |
| 106LX-6-05C          | 8            | -05  | 5/16 | 7.9  | 9/16"-18      | 3.07 | 78               | 1.30 | 33                 | 0.75 | 19    | 10,000 | 690                      |     |
| 106LX-6-06C          | 10           | -06  | 3/8  | 9.5  | 9/16"-18      | 3.00 | 76               | 1.26 | 32                 | 0.87 | 22    | 10,000 | 690                      |     |
| 106LX-8-08           | 12           | -08  | 1/2  | 12.7 | 3/4"-16       | 2.52 | 64               | 0.83 | 21                 | 1.06 | 27    | 10,000 | 690                      |     |
| 106LX-8-08C          | 12           | -08  | 1/2  | 12.7 | 3/4"-16       | 2.52 | 64               | 0.83 | 21                 | 1.06 | 27    | 10,000 | 690                      |     |
| 106LX-6-06C-M-SUBSEA | 10           | -06  | 3/8  | 9.5  | 9/16"-18      | 2.32 | 59               | 0.71 | 18                 | 0.87 | 22    | 10,000 | 690                      |     |
| 106LX-8-06C-M-SUBSEA | 10           | -06  | 3/8  | 9.5  | 3/4"-16       | 2.32 | 59               | 0.75 | 19                 | 0.94 | 24    | 10,000 | 690                      |     |
| 106LX-8-08C-M-SUBSEA | 12           | -08  | 1/2  | 12.7 | 3/4"-16       | 2.52 | 64               | 0.83 | 21                 | 1.06 | 27    | 10,000 | 690                      |     |
| 106LX-16-12C4462     | 20           | -12  | 3/4  | 19.0 | 1-5/16"-12UNF | 3.99 | 99               | 1.69 | 43                 | 1.61 | 41    | 10,000 | 690                      |     |
| 106LX-16-16C4462     | 25           | -16  | 1    | 25.4 | 1-5/16"-12    | 3.03 | 77               | 1.00 | 25                 | 1.61 | 41    | 5,000  | 350                      |     |



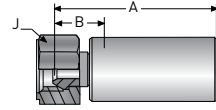
### WARNING

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# LX Series Fittings

## 192LX- BSP Swivel - Female

Material: Nipple - Stainless steel  
Shell - Stainless steel  
Nut - Stainless steel

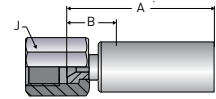


| Part Number | Nominal I.D. |      |      |      | Thread Size      | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|------|------------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|             | DN           | Size | inch | mm   |                  | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #           |              |      |      |      |                  |                  |    |                    |    |       |    |                           |     |
| 192LX-8-08C | 12           | -08  | 1/2  | 12.7 | G 1/2" - 14 BSPP | 2.95             | 75 | 0.82               | 21 | 1.18  | 30 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 65YLX- Medium Pressure Female Swivel

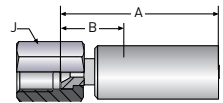
Material: Nipple - High strength steel  
C - High strength stainless steel  
Shell - Carbon steel, zinc-plated  
Nut - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure |       |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-------|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar   |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                          |       |
| 65YLX-6-3   | 5            | -03  | 3/16 | 4.8 | 9/16"-18    | 3.08             | 78 | 1.53               | 39 | 0.75  | 19 | 20,000                   | 1,380 |
| 65YLX-6-3C  | 5            | -03  | 3/16 | 4.8 | 9/16"-18    | 3.20             | 81 | 1.67               | 42 | 0.75  | 19 | 20,000                   | 1,380 |
| 65YLX-6-4   | 6            | -04  | 1/4  | 6.4 | 9/16"-18    | 2.84             | 72 | 1.54               | 39 | 0.75  | 19 | 20,000                   | 1,380 |
| 65YLX-6-4C  | 6            | -04  | 1/4  | 6.4 | 9/16"-18    | 2.84             | 72 | 1.54               | 39 | 0.75  | 19 | 20,000                   | 1,380 |

## 66YLX- High Pressure Female Swivel

Material: Nipple - High strength steel  
C - High strength stainless steel  
Shell - Carbon steel, zinc-plated  
Nut - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                           |     |
| 66YLX-4-3   | 5            | -03  | 3/16 | 4.8 | 9/16"-18    | 2.80             | 71 | 1.28               | 33 | 0.75  | 19 | —                         | —   |
| 66YLX-4-3C  | 5            | -03  | 3/16 | 4.8 | 9/16"-18    | 2.93             | 74 | 1.42               | 36 | 0.68  | 17 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



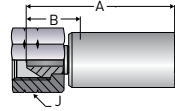
**WARNING**

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# LX Series Fittings

## 1AYLX- Type "M" Swivel - Female

- Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel  
 Nut - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|------|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|              | DN           | Size | inch | mm   |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #            |              |      |      |      |             |                  |    |                    |    |       |    |                           |     |
| 1AYLX-6-02   | 3            | -02  | 1/8  | 3.2  | 9/16"-18    | 1.89             | 48 | 1.02               | 26 | 0.87  | 22 | —                         | —   |
| 1AYLX-6-04   | 6            | -04  | 1/4  | 6.4  | 9/16"-18    | 2.40             | 61 | 1.13               | 29 | 0.87  | 22 | —                         | —   |
| 1AYLX-6-04C  | 6            | -04  | 1/4  | 6.4  | 9/16"-18    | 2.40             | 61 | 1.13               | 29 | 0.87  | 22 | —                         | —   |
| 1AYLX-8-05C  | 8            | -05  | 5/16 | 7.9  | 3/4" - 16   | 2.76             | 70 | 1.22               | 31 | 1.06  | 27 | —                         | —   |
| 1AYLX-11-08  | 12           | -08  | 1/2  | 12.7 | 1" - 12     | 3.19             | 81 | 1.06               | 27 | 1.26  | 32 | —                         | —   |
| 1AYLX-11-08C | 12           | -08  | 1/2  | 12.7 | 1" - 12     | 3.19             | 81 | 1.06               | 27 | 1.26  | 32 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



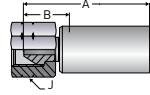
### WARNING

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# LX Series Fittings

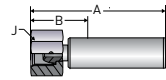
## 6AYLX - Type "M" Swivel - Female

Material: Nipple - High strength steel  
 C - High strength stainless steel  
 SD / HCL / SUBSEA - High strength, corrosion-resistant stainless steel  
 Shell - Carbon steel, zinc-plated  
 C / SD / HCL / SUBSEA - Stainless steel  
 Nut - Stainless steel



| Part Number         | Nominal I.D. |      |      |      | Thread Size  | A Overall Length |      | B Cutoff Allowance |      | J Hex |      | Maximum Working Pressure* |     |
|---------------------|--------------|------|------|------|--------------|------------------|------|--------------------|------|-------|------|---------------------------|-----|
|                     | #            | DN   | Size | inch |              | mm               | inch | mm                 | inch | mm    | inch | mm                        | psi |
| 6AYLX-6-2AC         | 4            | -025 | 5/32 | 4.0  | 9/16"-18     | 2.51             | 64   | 1.28               | 33   | 0.68  | 17   | —                         | —   |
| 6AYLX-6-3           | 5            | -03  | 3/16 | 4.8  | 9/16"-18     | 2.80             | 71   | 1.28               | 33   | 0.75  | 19   | —                         | —   |
| 6AYLX-6-3C          | 5            | -03  | 3/16 | 4.8  | 9/16"-18     | 2.93             | 74   | 1.42               | 36   | 0.68  | 17   | —                         | —   |
| 6AYLX-6-4           | 6            | -04  | 1/4  | 6.4  | 9/16"-18     | 2.69             | 68   | 1.39               | 35   | 0.68  | 17   | —                         | —   |
| 6AYLX-6-4C          | 6            | -04  | 1/4  | 6.4  | 9/16"-18     | 2.69             | 68   | 1.39               | 35   | 0.68  | 17   | —                         | —   |
| 6AYLX-8-6C          | 10           | -06  | 3/8  | 9.5  | 3/4"-16      | 2.95             | 75   | 1.25               | 32   | 1.00  | 25   | —                         | —   |
| 6AYLX-11-8C         | 12           | -08  | 1/2  | 12.7 | 1" - 12      | 3.53             | 90   | 1.50               | 38   | 1.25  | 32   | —                         | —   |
| 6AYLX-11-8C-SD      | 12           | -08  | 1/2  | 12.7 | 1" - 12      | 3.53             | 90   | 1.50               | 38   | 1.25  | 32   | —                         | —   |
| 6AYLX-16-12C        | 20           | -12  | 3/4  | 19.0 | 1-5/16" - 12 | 4.15             | 105  | 1.52               | 39   | 1.50  | 38   | —                         | —   |
| 6AYLX-16-12C-SD     | 20           | -12  | 3/4  | 19.0 | 1-5/16" - 12 | 4.29             | 109  | 1.64               | 42   | 1.50  | 38   | —                         | —   |
| 6AYLX-16-16C        | 25           | -16  | 1    | 25.4 | 1-5/16" - 12 | 5.45             | 139  | 2.04               | 52   | 1.50  | 38   | —                         | —   |
| 6AYLX-16-16C-SD     | 25           | -16  | 1    | 25.4 | 1-5/16" - 12 | 5.45             | 139  | 2.04               | 52   | 1.50  | 38   | —                         | —   |
| 6AYLX-16-16-HCL     | 25           | -16  | 1    | 25.4 | 1-5/16" - 12 | 5.45             | 139  | 2.04               | 52   | 1.50  | 38   | —                         | —   |
| 6AYLX-8-5C-M-SUBSEA | 8            | -05  | 5/16 | 7.9  | 3/4"-16      | 3.65             | 93   | 1.76               | 45   | 0.88  | 22   | —                         | —   |
| 6AYLX-8-6C-M-SUBSEA | 10           | -06  | 3/8  | 9.5  | 3/4"-16      | 3.23             | 82   | 1.45               | 37   | 1.00  | 25   | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



## Type "M" Swivel - Female (Ball Nose)

|            | DN | Size | inch | mm  |           | inch | mm | inch | mm | inch | mm | psi | bar |
|------------|----|------|------|-----|-----------|------|----|------|----|------|----|-----|-----|
| 6AYLX-8-5C | 8  | -05  | 5/16 | 7.9 | 3/4" - 16 | 2.82 | 72 | 1.22 | 31 | 1.00 | 25 | —   | —   |

\* Fitting is rated to the full working pressure of the hose



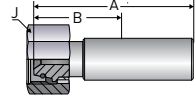
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# LX Series Fittings

## 6C9LX- Metric Swivel - Female

Material: Nipple - High strength stainless steel  
 Shell - Stainless steel  
 Nut - Carbon steel, zinc-plated

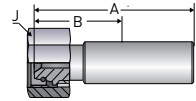


| Part Number  | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|------|-------------|------------------|-----|--------------------|----|-------|----|---------------------------|-----|
|              | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm | inch  | mm | psi                       | bar |
| #            |              |      |      |      |             |                  |     |                    |    |       |    |                           |     |
| 6C9LX-16-8C  | 12           | -08  | 1/2  | 12.7 | M 24 x 1.5  | 3.48             | 88  | 1.44               | 37 | 1.26  | 32 | —                         | —   |
| 6C9LX-25-12C | 20           | -12  | 3/4  | 19.0 | M 36 x 2    | 4.26             | 108 | 1.58               | 40 | 1.81  | 46 | —                         | —   |
| 6C9LX-30-16C | 25           | -16  | 1    | 25.4 | M 42 x 2    | 4.65             | 118 | 2.05               | 52 | 1.97  | 50 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1C9LX- Metric Swivel - Female

Material: Nipple - Stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | J Hex |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|------|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|              | DN           | Size | inch | mm   |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #            |              |      |      |      |             |                  |    |                    |    |       |    |                           |     |
| 1C9LX-16-08C | 12           | -08  | 1/2  | 12.7 | M 24 x 1.5  | 3.46             | 88 | 1.34               | 34 | 1.26  | 32 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



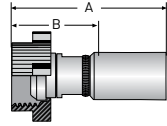
### WARNING

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# LX Series Fittings

## 6HELX- Hammer Union (Male) Cone w/ Wing Nut

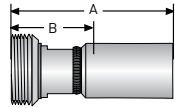
Material: Nipple - High strength steel  
 Shell - Stainless steel  
 Nut - Carbon steel



| Part Number     | Nominal I.D. |      |      |      | Thread Size      | A Overall Length |     | B Cutoff Allowance |    | Maximum Working Pressure |       |
|-----------------|--------------|------|------|------|------------------|------------------|-----|--------------------|----|--------------------------|-------|
|                 | DN           | Size | inch | mm   |                  | inch             | mm  | inch               | mm | psi                      | bar   |
| #               |              |      |      |      |                  |                  |     |                    |    |                          |       |
| 6HELX-16-16-HCL | 25           | -16  | 1    | 25.4 | 2-5/16"-3.5 ACME | 6.00             | 153 | 3.63               | 92 | 15,000                   | 1,030 |

## 6HNLX- Hammer Union (Female) Cone Threaded End w/ Seal

Material: Nipple - High strength steel  
 Shell - Stainless steel



| Part Number     | Nominal I.D. |      |      |      | Thread Size      | A Overall Length |     | B Cutoff Allowance |    | Maximum Working Pressure |       |
|-----------------|--------------|------|------|------|------------------|------------------|-----|--------------------|----|--------------------------|-------|
|                 | DN           | Size | inch | mm   |                  | inch             | mm  | inch               | mm | psi                      | bar   |
| #               |              |      |      |      |                  |                  |     |                    |    |                          |       |
| 6HNLX-16-16-HCL | 25           | -16  | 1    | 25.4 | 2-5/16"-2.5 ACME | 6.00             | 153 | 3.63               | 92 | 15,000                   | 1,030 |



**WARNING**

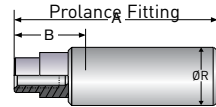
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# LX Series Fittings

## 6HYLX- Waterblast Nozzle - Female

Material: Nipple - High strength stainless steel  
Shell - Stainless steel

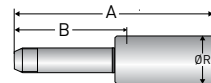


| Part Number       | Nominal I.D. |      |      |     | Thread Size     | A Overall Length |    | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |     |
|-------------------|--------------|------|------|-----|-----------------|------------------|----|--------------------|----|------------|----|--------------------------|-----|
|                   | DN           | Size | inch | mm  |                 | inch             | mm | inch               | mm | inch       | mm | psi                      | bar |
| #                 |              |      |      |     |                 |                  |    |                    |    |            |    |                          |     |
| 6HYLX-4-2AC-PL    | 4            | -025 | 5/32 | 4.0 | 1/4"-28 UNF     | 2.01             | 51 | 0.75               | 19 | 0.35       | 9  | —                        | —   |
| 6HYLX-4-2AC-PL-LH | 4            | -025 | 5/32 | 4.0 | 1/4"-28 UNF LH  | 2.01             | 51 | 0.75               | 19 | 0.35       | 9  | —                        | —   |
| 6HYLX-6-2AC-PL-LH | 4            | -025 | 5/32 | 4.0 | 3/8"-24 UNF LH  | 1.93             | 49 | 0.83               | 21 | 0.43       | 11 | —                        | —   |
| 6HYLX-4-3C-PL     | 5            | -03  | 3/16 | 4.8 | 1/4"-28 UNF     | 2.05             | 52 | 0.75               | 19 | 0.35       | 9  | —                        | —   |
| 6HYLX-4-3C-PL-LH  | 5            | -03  | 3/16 | 4.8 | 1/4"-28 UNF LH  | 2.05             | 52 | 0.75               | 19 | 0.35       | 9  | —                        | —   |
| 6HYLX-6-3C-PL     | 5            | -03  | 3/16 | 4.8 | 3/8"-24 UNF     | 2.20             | 56 | 0.91               | 23 | 0.43       | 11 | —                        | —   |
| 6HYLX-6-3C-PL-LH  | 5            | -03  | 3/16 | 4.8 | 3/8"-24 UNF LH  | 2.20             | 56 | 0.91               | 23 | 0.43       | 11 | —                        | —   |
| 6HYLX-6-4C-PL     | 5            | -04  | 1/4  | 6.4 | 3/8"-24 UNF     | 2.28             | 58 | 0.98               | 25 | 0.43       | 11 | —                        | —   |
| 6HYLX-6-4C-PL-LH  | 5            | -04  | 1/4  | 6.4 | 3/8"-24 UNF LF  | 2.28             | 58 | 0.98               | 25 | 0.43       | 11 | —                        | —   |
| 6HYLX-9-5C-PL     | 8            | -05  | 5/16 | 7.9 | 9/16"-18 UNF    | 2.83             | 72 | 1.10               | 28 | 0.67       | 17 | —                        | —   |
| 6HYLX-9-5C-PL-LH  | 8            | -05  | 5/16 | 7.9 | 9/16"-18 UNF LH | 2.83             | 72 | 1.10               | 28 | 0.67       | 17 | —                        | —   |

Note: \*Fitting is rated to the full working pressure of the hose

## 6Y2LX- Medium Pressure - Male

Material: Nipple - High strength stainless steel  
Shell - Stainless steel



| Part Number  | Nominal I.D. |      |      |      | Thread Size  | A Overall Length |     | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |       |
|--------------|--------------|------|------|------|--------------|------------------|-----|--------------------|----|------------|----|--------------------------|-------|
|              | DN           | Size | inch | mm   |              | inch             | mm  | inch               | mm | inch       | mm | psi                      | bar   |
| #            |              |      |      |      |              |                  |     |                    |    |            |    |                          |       |
| 6Y2LX-9-5C   | 8            | -05  | 5/16 | 7.9  | 9/16"-18 LH  | 2.60             | 66  | 0.88               | 22 | 0.82       | 21 | 20,000                   | 1,380 |
| 6Y2LX-12-5C  | 8            | -05  | 5/16 | 7.9  | 3/4"-16 LH   | 3.74             | 95  | 2.05               | 52 | 0.95       | 24 | 20,000                   | 1,380 |
| 6Y2LX-9-6C   | 10           | -06  | 3/8  | 9.5  | 9/16"-18 LH  | 3.80             | 97  | 2.04               | 52 | 1.22       | 31 | 20,000                   | 1,380 |
| 6Y2LX-9-8C   | 12           | -08  | 1/2  | 12.7 | 9/16"-18 LH  | 4.20             | 107 | 2.20               | 56 | 1.13       | 29 | 20,000                   | 1,380 |
| 6Y2LX-12-8C  | 12           | -08  | 1/2  | 12.7 | 3/4"-16 LH   | 4.13             | 105 | 2.08               | 53 | 1.13       | 29 | 20,000                   | 1,380 |
| 6Y2LX-16-12C | 20           | -12  | 3/4  | 19.0 | 1"-14 UNF LH | 5.39             | 137 | 2.75               | 70 | 1.56       | 40 | 20,000                   | 1,380 |



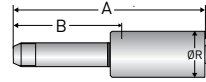
### WARNING

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# LX Series Fittings

## 1Y2LX- Medium Pressure - Male

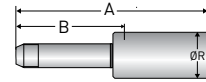
Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 SUBSEA - High strength stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number           | Nominal I.D. |      |      |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |     | R Diameter |    | Maximum Working Pressure |       |
|-----------------------|--------------|------|------|------|---------------|------------------|-----|--------------------|-----|------------|----|--------------------------|-------|
|                       | DN           | Size | inch | mm   |               | inch             | mm  | inch               | mm  | inch       | mm | psi                      | bar   |
| #                     |              |      |      |      |               |                  |     |                    |     |            |    |                          |       |
| 1Y2LX-6-04            | 6            | -04  | 1/4  | 6.4  | 3/8" - 24 LH  | 4.72             | 120 | 2.56               | 65  | 0.67       | 17 | 20,000                   | 1,380 |
| 1Y2LX-9-08C           | 12           | -08  | 1/2  | 12.7 | 9/16" - 18 LH | 4.33             | 110 | 2.36               | 60  | 1.22       | 31 | 20,000                   | 1,380 |
| 1Y2LX-12-08C          | 12           | -08  | 1/2  | 12.7 | 3/4 - 16 LH   | 6.22             | 158 | 4.09               | 104 | 1.22       | 31 | 20,000                   | 1,380 |
| 1Y2LX-12-08C-M-SUBSEA | 12           | -08  | 1/2  | 12.7 | 3/4 - 16 LH   | 7.25             | 184 | 4.70               | 119 | 1.30       | 33 | 20,000                   | 1,380 |
| 1Y2LX-16-16C4462      | 25           | -16  | 1    | 25.4 | 1" - 14 LH    | 7.13             | 181 | 5.00               | 127 | 1.06       | 27 | 20,000                   | 1,380 |

## 6Y4LX- High Pressure - Male

Material: Nipple - High strength stainless steel  
 Shell - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |     |
|-------------|--------------|------|------|-----|---------------|------------------|-----|--------------------|----|------------|----|--------------------------|-----|
|             | DN           | Size | inch | mm  |               | inch             | mm  | inch               | mm | inch       | mm | psi                      | bar |
| #           |              |      |      |     |               |                  |     |                    |    |            |    |                          |     |
| 6Y4LX-4-2AC | 4            | -025 | 5/32 | 4.0 | 1/4" - 28 LH  | 2.96             | 75  | 1.71               | 43 | 0.63       | 16 | —                        | —   |
| 6Y4LX-6-2AC | 4            | -025 | 5/32 | 4.0 | 3/8" - 24 LH  | 3.40             | 86  | 2.16               | 55 | 0.63       | 16 | —                        | —   |
| 6Y4LX-9-3C  | 5            | -03  | 3/16 | 4.8 | 9/16" - 18 LH | 4.20             | 107 | 2.70               | 69 | 0.67       | 17 | —                        | —   |



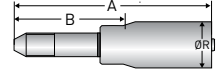
**WARNING**

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# LX Series Fittings

## 1Y4LX- High Pressure - Male

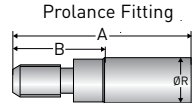
Material: Nipple - Carbon steel, zinc-plated  
 C - Stainless steel  
 Shell - Carbon steel, zinc-plated  
 C - Stainless steel



| Part Number | Nominal I.D. |      |      |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |     |
|-------------|--------------|------|------|------|---------------|------------------|-----|--------------------|----|------------|----|--------------------------|-----|
|             | DN           | Size | inch | mm   |               | inch             | mm  | inch               | mm | inch       | mm | psi                      | bar |
| #           |              |      |      |      |               |                  |     |                    |    |            |    |                          |     |
| 1Y4LX-4-02  | 3            | -2   | 1/8  | 3.2  | 1/4" - 28 LH  | 2.47             | 63  | 1.57               | 40 | 0.43       | 11 | —                        | —   |
| 1Y4LX-9-08C | 12           | -8   | 1/2  | 12.7 | 9/16" - 18 LH | 4.88             | 124 | 2.75               | 70 | 1.38       | 35 | —                        | —   |

## 6YHLX- Waterblast Nozzle - Male

Material: Nipple - High strength stainless steel  
 Shell - Stainless steel



| Part Number       | Nominal I.D. |      |      |     | Thread Size       | A Overall Length |    | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure* |     |
|-------------------|--------------|------|------|-----|-------------------|------------------|----|--------------------|----|------------|----|---------------------------|-----|
|                   | DN           | Size | inch | mm  |                   | inch             | mm | inch               | mm | inch       | mm | psi                       | bar |
| #                 |              |      |      |     |                   |                  |    |                    |    |            |    |                           |     |
| 6YHLX-4-2AC-PL    | 4            | -025 | 5/32 | 4   | 1/4" - 28 UNF     | 2.28             | 58 | 1.02               | 26 | 0.50       | 13 | —                         | —   |
| 6YHLX-4-2AC-PL-LH | 4            | -025 | 5/32 | 4   | 1/4" - 28 UNF LH  | 2.28             | 58 | 1.02               | 26 | 0.50       | 13 | —                         | —   |
| 6YHLX-4-3C-PL     | 5            | -03  | 3/16 | 4.8 | 1/4" - 28 UNF     | 2.44             | 62 | 1.14               | 29 | 0.60       | 15 | —                         | —   |
| 6YHLX-4-3C-PL-LH  | 5            | -03  | 3/16 | 4.8 | 1/4" - 28 UNF LH  | 2.44             | 62 | 1.14               | 29 | 0.60       | 15 | —                         | —   |
| 6YHLX-6-3C-PL     | 5            | -03  | 3/16 | 4.8 | 3/8" - 24 UNF     | 2.56             | 65 | 1.26               | 32 | 0.60       | 15 | —                         | —   |
| 6YHLX-6-3C-PL-LH  | 5            | -03  | 3/16 | 4.8 | 3/8" - 24 UNF LH  | 2.56             | 65 | 1.26               | 32 | 0.60       | 15 | —                         | —   |
| 6YHLX-6-4C-PL     | 6            | -04  | 1/4  | 6.4 | 3/8" - 24 UNF     | 2.60             | 66 | 1.42               | 36 | 0.67       | 17 | —                         | —   |
| 6YHLX-6-4C-PL-LH  | 6            | -04  | 1/4  | 6.4 | 3/8" - 24 UNF LH  | 2.60             | 66 | 1.42               | 36 | 0.67       | 17 | —                         | —   |
| 6YHLX-9-5C-PL     | 8            | -05  | 5/16 | 7.9 | 9/16" - 18 UNF    | 3.15             | 80 | 1.42               | 36 | 0.80       | 20 | —                         | —   |
| 6YHLX-9-5C-PL-LH  | 8            | -05  | 5/16 | 7.9 | 9/16" - 18 UNF LH | 3.15             | 80 | 1.42               | 36 | 0.80       | 20 | —                         | —   |

Note: \*Fitting is rated to the full working pressure of the hose



### WARNING

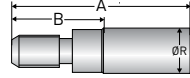
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# LX Series Fittings

## 1YHLX- Waterblast Nozzle - Male

Material: Nipple - High strength stainless steel  
Shell - Carbon steel, zinc-plated

SC - Nipple - Carbon steel, zinc plated  
Shell - Stainless steel



| Part Number  | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|------------|----|---------------------------|-----|
|              | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch       | mm | psi                       | bar |
| #            |              |      |      |     |             |                  |    |                    |    |            |    |                           |     |
| 1YHLX-9-06SC | 10           | -6   | 3/8  | 9.5 | 9/16"-18 LH | 3.126            | 79 | 1.34               | 34 | 1.06       | 27 | -                         | -   |

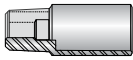
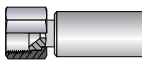
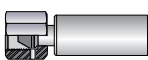
Note: \*Fitting is rated to the full working pressure of the hose



**WARNING**

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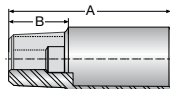
# NX Series Fittings





|                                |   |                         |   |                           |   |                             |
|--------------------------------|---|-------------------------|---|---------------------------|---|-----------------------------|
| NX Series<br>Crimp<br>Fittings | 01  | *NPT - Male<br>Prolance | 06  | JIC 37° Flare -<br>Female | AY  | Type "M" Swivel<br>- Female |
|                                |  |                         |  |                           |  |                             |
|                                | B-57  |                         | B-58  |                           | B-59  |                             |

## 601NX- NPT Male

Material: Nipple - Carbon steel  
C - Stainless steel  
Shell - Carbon steel  
C - Stainless steel

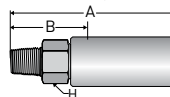
\* Prolance Fitting







| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-------|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar   |
| #           |  |      |      |     |  |                  |    |                    |    |  |    |  |       |
| 601NX-2-4*  | 6   | -04  | 1/4  | 6.4 | 1/8" - 27   | 1.44             | 37 | 0.50               | 13 | NA  | NA | 15,000  | 1,030 |
| 601NX-4-4*  | 6   | -04  | 1/4  | 6.4 | 1/4" - 18   | 1.56             | 40 | 1.35               | 34 | NA  | NA | 15,000  | 1,030 |

## 101NX- NPT Male

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated



| Part Number | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|-------------|---|------|------|------|---|------------------|----|--------------------|----|---|----|---|-------|
|             | DN  | Size | inch | mm   |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar   |
| #           |  |      |      |      |  |                  |    |                    |    |  |    |  |       |
| 101NX-4-04  | 6   | -04  | 1/4  | 6.4  | 1/4" - 18   | 2.57             | 65 | 1.35               | 34 | 0.63  | 16 | 15,000  | 1,030 |
| 101NX-6-06  | 10  | -06  | 3/8  | 9.5  | 3/8" - 18   | 2.79             | 71 | 1.20               | 30 | 0.87  | 22 | 15,000  | 1,030 |
| 101NX-8-08  | 12  | -08  | 1/2  | 12.7 | 1/2" - 14   | 3.11             | 79 | 1.46               | 37 | 0.87  | 22 | 15,000  | 1,030 |
| 101NX-12-12 | 20  | -12  | 3/4  | 19.0 | 3/4" - 14   | 3.66             | 93 | 1.57               | 40 | 1.06  | 27 | 10,000  | 690   |



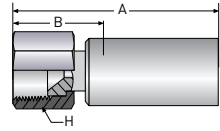
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# NX Series Fittings

## 606NX- JIC 37° Female Flare

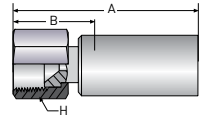
Material: Nipple - Stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-----|
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar |
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                          |     |
| 606NX-4-4C  | 6            | -04  | 1/4  | 6.4 | 7/16" - 20  | 2.23             | 57 | 0.99               | 25 | 0.63  | 16 | 10,000                   | 690 |
| 606NX-6-4C  | 6            | -04  | 1/4  | 6.4 | 9/16" - 18  | 2.36             | 60 | 1.11               | 28 | 0.68  | 17 | 10,000                   | 690 |

## 106NX- JIC 37° Female Flare

Material: Nipple - Carbon steel, zinc-plated  
 Shell - Carbon steel, zinc-plated  
 Nut - Carbon steel, zinc-plated



| Part Number | Nominal I.D. |      |       |      | Thread Size  | A Overall Length |     | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |     |
|-------------|--------------|------|-------|------|--------------|------------------|-----|--------------------|----|-------|----|--------------------------|-----|
|             | DN           | Size | inch  | mm   |              | inch             | mm  | inch               | mm | inch  | mm | psi                      | bar |
| #           |              |      |       |      |              |                  |     |                    |    |       |    |                          |     |
| 106NX-4-04  | 6            | -04  | 1/4   | 6.4  | 7/16" - 20   | 2.56             | 65  | 1.37               | 35 | 0.75  | 19 | 10,000                   | 690 |
| 106NX-6-04  | 6            | -04  | 1/4   | 6.4  | 9/16" - 18   | 2.56             | 65  | 1.32               | 34 | 0.75  | 19 | 10,000                   | 690 |
| 106NX-6-06  | 10           | -06  | 3/8   | 9.5  | 9/16" - 18   | 2.56             | 65  | 1.32               | 34 | 0.75  | 19 | 10,000                   | 690 |
| 106NX-8-06  | 10           | -06  | 3/8   | 9.5  | 3/4" - 16    | 2.82             | 72  | 1.23               | 31 | 0.95  | 24 | 10,000                   | 690 |
| 106NX-8-08  | 12           | -08  | 1/2   | 12.7 | 3/4" - 16    | 2.52             | 64  | 0.83               | 21 | 1.06  | 27 | 10,000                   | 690 |
| 106NX-12-12 | 20           | -12  | 3/4   | 19.0 | 1-1/16" - 12 | 3.78             | 96  | 1.69               | 43 | 1.42  | 36 | 5,000                    | 345 |
| 106NX-16-12 | 20           | -12  | 3/4   | 19.0 | 1-5/16" - 12 | 3.66             | 93  | 1.57               | 40 | 1.61  | 41 | 4,000                    | 275 |
| 106NX-16-16 | 25           | -16  | 1     | 25.4 | 1-5/16" - 12 | 3.84             | 98  | 1.67               | 43 | 1.61  | 41 | 4,000                    | 275 |
| 106NX-20-20 | 32           | -20  | 1-1/4 | 31.8 | 1-5/8" - 12  | 4.09             | 104 | 1.73               | 44 | 1.97  | 50 | 4,000                    | 275 |



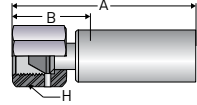
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# NX Series Fittings

## 6AYNX- Type "M" Swivel - Female

Material: Nipple - Stainless steel  
 Shell - Stainless steel  
 Nut - Stainless steel



| Part Number | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
| #           |              |      |      |     |             |                  |    |                    |    |       |    |                           |     |
|             | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| 6AYNX-6-4C  | 6            | -04  | 1/4  | 6.4 | 9/16"-18    | 2.36             | 60 | 1.11               | 28 | 0.68  | 17 | —                         | —   |

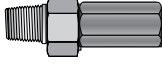
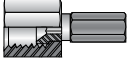
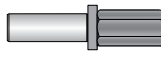
\* Fitting is rated to the full working pressure of the hose



### WARNING

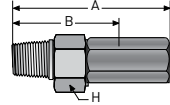
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# RX Series Field Attachable Fittings

|           |   |            |   |                        |   |                   |
|-----------|---|------------|---|------------------------|---|-------------------|
| RX Series | 01  | NPT - Male | 06  | JIC 37° Flare - Female | TU  | Tube Stub Fitting |
|           |  |            |  |                        |  |                   |
|           | B-60  |            | B-60  |                        | B-60  |                   |

## 201RX- NPT Male

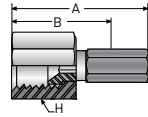
Material: Nipple - Stainless steel  
Shell - Stainless steel







| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |       |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-------|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar   |
| #           |  |      |      |     |  |                  |    |                    |    |  |    |  |       |
| 201RX-2-2C  | 3   | -02  | 1/8  | 3.2 | 1/8" - 27   | 1.54             | 39 | 1.10               | 28 | 0.44  | 11 | 15,000  | 1,030 |

## 206RX- JIC 37° Female Flare

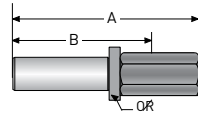
Material: Nipple - Stainless steel  
Shell - Stainless steel







| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | H Hex   |    | Maximum Working Pressure  |     |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-----|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar |
| #           |  |      |      |     |  |                  |    |                    |    |  |    |  |     |
| 206RX-4-2C  | 3   | -02  | 1/8  | 3.2 | 7/16" - 20  | 1.56             | 40 | 1.10               | 28 | 0.56  | 14 | 10,000  | 690 |

## 2TURX- Tube Stub

Material: Nipple - Stainless steel  
Shell - Stainless steel



| Part Number | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | R Diameter  |    | Maximum Working Pressure*   |     |
|-------------|---|------|------|-----|---|------------------|----|--------------------|----|---|----|---|-----|
|             | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | inch  | mm | psi   | bar |
| #           |  |      |      |     |  |                  |    |                    |    |  |    |  |     |
| 2TURX-4-2C  | 3   | -02  | 1/8  | 3.2 | 1/4" TUBE   | 1.65             | 42 | 1.20               | 30 | 0.38  | 10 | -   | -   |

\* Fitting is rated to the full working pressure of the hose

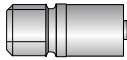
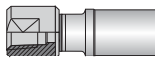
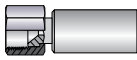
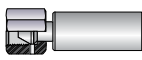
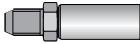


### WARNING

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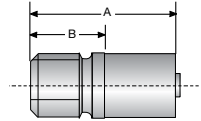





# TX Series Fittings

|                                |   |   |   |   |
|--------------------------------|---|---|---|---|
| TX Series<br>Crimp<br>Fittings | <b>01</b> NPT - Male  | <b>02</b> NPT - Female  | <b>06</b> JIC 37° Flare - Female  | <b>AY</b> Type "M" Swivel - Female  |
|                                | <br>B-61 | <br>B-62 | <br>B-62 | <br>B-63 |
|                                | <b>YH</b> Waterblast Nozzle - Male  |   |   |   |
|                                | <br>B-63 |   |   |   |

## 101TX- NPT Male

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated



| Part Number    | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |    | B Cutoff Allowance |    | Maximum Working Pressure  |       |
|----------------|---|------|------|-----|---|------------------|----|--------------------|----|---|-------|
|                | DN  | Size | inch | mm  |   | inch             | mm | inch               | mm | psi   | bar   |
| <b>#</b>       |  |      |      |     |  |                  |    |                    |    |  |       |
| 101TX-1-02-PL  | 3   | -02  | 1/8  | 3.2 | 1/16"-27  | 0.95             | 24 | 0.41               | 10 | 15,000  | 1,030 |
| 101TX-2-02-PL  | 3   | -02  | 1/8  | 3.2 | 1/8"-27   | 0.95             | 24 | .041               | 10 | 15,000  | 1,030 |
| 101TX-1-025-PL | 4   | -025 | 5/32 | 4.0 | 1/16"-27  | 1.04             | 27 | 0.43               | 11 | 15,000  | 1,030 |
| 101TX-2-025-PL | 4   | -025 | 5/32 | 4.0 | 1/8" - 27   | 1.04             | 27 | 0.43               | 11 | 15,000  | 1,030 |
| 101TX-2-03-PL  | 5   | -03  | 3/16 | 4.8 | 1/8" - 27   | 1.04             | 27 | 0.45               | 12 | 15,000  | 1,030 |
| 101TX-4-03-PL  | 5   | -03  | 3/16 | 4.8 | 1/4" - 18   | 1.22             | 31 | 0.63               | 16 | 15,000  | 1,030 |
| 101TX-2-04-PL  | 6   | -04  | 1/4  | 6.4 | 1/8" - 27   | 1.14             | 29 | 0.47               | 12 | 15,000  | 1,030 |
| 101TX-4-04-PL  | 6   | -04  | 1/4  | 6.4 | 1/4" - 18   | 1.30             | 33 | 0.63               | 16 | 15,000  | 1,030 |
| 101TX-4-05-PL  | 8   | -05  | 5/16 | 7.9 | 1/4" - 18   | 1.42             | 36 | 0.55               | 14 | 15,000  | 1,030 |
| 101TX-6-05-PL  | 8   | -05  | 5/16 | 7.9 | 3/8" - 18   | 1.48             | 38 | 0.62               | 16 | 15,000  | 1,030 |



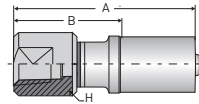
### WARNING

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# TX Series Fittings

## 102TX- NPT Female

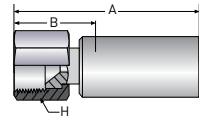
Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated



| Part Number   | Nominal I.D. |      |      |      | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Wrench Flats |    | Maximum Working Pressure |       |
|---------------|--------------|------|------|------|-------------|------------------|----|--------------------|----|----------------|----|--------------------------|-------|
|               | DN           | Size | inch | mm   |             | inch             | mm | inch               | mm | inch           | mm | psi                      | bar   |
| #             |              |      |      |      |             |                  |    |                    |    |                |    |                          |       |
| 102TX-4-04-PL | 6            | -04  | 1/4  | 6.40 | 1/4" - 18   | 1.77             | 45 | 1.10               | 28 | 0.47           | 12 | 15,000                   | 1,030 |

## 106TX- JIC 37° Female Flare

Material: Nipple - Carbon steel, zinc-plated  
Shell - Carbon steel, zinc-plated  
Nut - Carbon steel, zinc-plated



| Part Number  | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |     |
|--------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|--------------------------|-----|
|              | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                      | bar |
| #            |              |      |      |     |             |                  |    |                    |    |       |    |                          |     |
| 106TX-4-025W | 4            | -025 | 5/32 | 4.0 | 7/16" - 20  | 1.73             | 44 | 0.83               | 21 | 0.68  | 17 | 10,000                   | 690 |
| 106TX-4-03W  | 5            | -03  | 3/16 | 4.8 | 7/16" - 20  | 2.64             | 67 | 1.58               | 40 | 0.75  | 19 | 10,000                   | 690 |
| 106TX-4-04W  | 6            | -04  | 1/4  | 6.4 | 7/16" - 20  | 2.64             | 67 | 1.58               | 40 | 0.75  | 19 | 10,000                   | 690 |
| 106TX-6-04W  | 6            | -04  | 1/4  | 6.4 | 9/16" - 18  | 2.09             | 53 | 1.02               | 26 | 0.75  | 19 | 10,000                   | 690 |



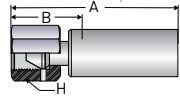
### WARNING

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# TX Series Fittings

## 1AYTX- Type "M" Swivel - Female

Material: Nipple - Carbon steel, zinc-plated  
 Shell - Carbon steel, zinc-plated  
 Nut - Carbon steel, zinc-plated

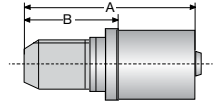


| Part Number  | Nominal I.D. |      |      |     | Thread Size | A Overall Length |    | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure* |     |
|--------------|--------------|------|------|-----|-------------|------------------|----|--------------------|----|-------|----|---------------------------|-----|
|              | DN           | Size | inch | mm  |             | inch             | mm | inch               | mm | inch  | mm | psi                       | bar |
| #            |              |      |      |     |             |                  |    |                    |    |       |    |                           |     |
| 1AYTX-6-025W | 4            | -025 | 5/32 | 4.0 | 9/16"-18    | 1.77             | 45 | 0.91               | 23 | 0.75  | 19 | —                         | —   |
| 1AYTX-6-03W  | 5            | -03  | 3/16 | 4.8 | 9/16"-18    | 1.97             | 50 | 0.91               | 23 | 0.75  | 19 | —                         | —   |
| 1AYTX-6-04W  | 6            | -04  | 1/4  | 6.4 | 9/16"-18    | 2.05             | 52 | 0.99               | 25 | 0.75  | 19 | —                         | —   |
| 1AYTX-8-05W  | 8            | -05  | 5/16 | 7.9 | 3/4"-16     | 2.52             | 64 | 1.18               | 30 | 1.06  | 27 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1YHTX- Waterblast Nozzle - Male

Material: Nipple - Carbon steel, zinc-plated  
 Shell - Carbon steel, zinc-plated



| Part Number       | Nominal I.D. |      |      |     | Thread Size  | A Overall Length |    | B Cutoff Allowance |    | H Wrench Flats |    | Maximum Working Pressure* |     |
|-------------------|--------------|------|------|-----|--------------|------------------|----|--------------------|----|----------------|----|---------------------------|-----|
|                   | DN           | Size | inch | mm  |              | inch             | mm | inch               | mm | inch           | mm | psi                       | bar |
| #                 |              |      |      |     |              |                  |    |                    |    |                |    |                           |     |
| 1YHTX-4-025-PL    | 4            | -025 | 5/32 | 4.0 | 1/4" - 28    | 1.56             | 40 | 0.95               | 24 | 0.32           | 8  | —                         | —   |
| 1YHTX-4-025-PL-LH | 4            | -025 | 5/32 | 4.0 | 1/4" - 28 LH | 1.56             | 40 | 0.95               | 24 | 0.32           | 8  | —                         | —   |
| 1YHTX-6-03-PL     | 5            | -03  | 3/16 | 4.8 | 3/8" - 24    | 1.34             | 34 | 0.74               | 19 | 0.35           | 9  | —                         | —   |
| 1YHTX-6-05W-LH    | 8            | -05  | 3/16 | 7.9 | 3/8" - 24 LH | 2.56             | 65 | 1.30               | 33 | 0.51           | 13 | —                         | —   |
| 1YHTX-6-03-PL-LH  | 5            | -03  | 3/16 | 4.8 | 3/8" - 24 LH | 1.34             | 34 | 0.74               | 19 | 0.35           | 9  | —                         | —   |

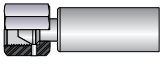

\* Fitting is rated to the full working pressure of the hose



### WARNING

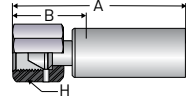
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# UX Series Fittings

|                          |   |                          |   |                        |
|--------------------------|---|--------------------------|---|------------------------|
| UX Series Crimp Fittings | AY  | Type "M" Swivel - Female | Y2  | Medium Pressure - Male |
|                          | <br>B-64 |                          | <br>B-64 |                        |

## 1AYUX- Type "M" Swivel - Female

Material: Nipple - Stainless steel  
Shell - Stainless steel

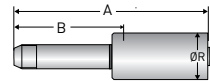


| Part Number | Nominal I.D. |      |      |     | Thread Size |  | A Overall Length |     | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure* |     |
|-------------|--------------|------|------|-----|-------------|--|------------------|-----|--------------------|----|-------|----|---------------------------|-----|
|             | DN           | Size | inch | mm  |             |  | inch             | mm  | inch               | mm | inch  | mm | psi                       | bar |
| #           |              |      |      |     |             |  |                  |     |                    |    |       |    |                           |     |
| 1AYUX-6-04C | 6            | -04  | 1/4  | 6.4 | 9/16"-18    |  | 3.66             | 93  | 1.38               | 35 | 0.75  | 19 | —                         | —   |
| 1AYUX-8-06C | 10           | -06  | 3/8  | 9.5 | 3/4"-16     |  | 3.94             | 100 | 1.39               | 35 | 1.06  | 27 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1Y2UX- Medium Pressure - Male

Material: Nipple - Stainless steel  
Shell - Stainless steel



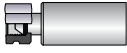


| Part Number | Nominal I.D. |      |      |     | Thread Size  |  | A Overall Length |     | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |       |
|-------------|--------------|------|------|-----|--------------|--|------------------|-----|--------------------|----|------------|----|--------------------------|-------|
|             | DN           | Size | inch | mm  |              |  | inch             | mm  | inch               | mm | inch       | mm | psi                      | bar   |
| #           |              |      |      |     |              |  |                  |     |                    |    |            |    |                          |       |
| 1Y2UX-6-04C | 6            | -04  | 1/4  | 6.4 | 3/8" - 24 LH |  | 4.29             | 109 | 2.20               | 56 | 0.71       | 18 | 20,000                   | 1,380 |
| 1Y2UX-9-06C | 10           | -06  | 3/8  | 9.5 | 9/16"-18 LH  |  | 4.84             | 123 | 2.24               | 57 | 1.10       | 28 | 20,000                   | 1,380 |



**WARNING**

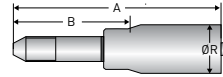
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).





# WX Series Fittings

|   |   |                          |   |                      |   |                             |
|---|---|--------------------------|---|----------------------|---|-----------------------------|
| <b>WX Series<br/>Crimp<br/>Fittings</b> | <b>AY</b>   | Type "M" Swivel - Female | <b>Y4</b>   | High Pressure - Male | <b>YM</b>   | Metric High Pressure - Male |
|   |  |                          |  |                      |  |                             |
|   | B-66  |                          | B-65  |                      | B-66  |                             |

## 6Y4WX- High Pressure - Male

Material: Nipple - Stainless steel  
Shell - Stainless steel

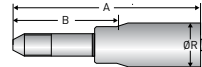






| Part Number | Nominal I.D.  |      |      |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | R Diameter  |    | Maximum Working Pressure*   |     |
|-------------|---|------|------|------|---|------------------|-----|--------------------|----|---|----|---|-----|
|             | DN  | Size | inch | mm   |   | inch             | mm  | inch               | mm | inch  | mm | psi   | bar |
| <b>#</b>    |  |      |      |      |  |                  |     |                    |    |  |    |  |     |
| 6Y4WX-16-8C | 25  | -16  | 1    | 25.4 | 1"-14 LH  | 5.4              | 138 | 3.2                | 80 | 1.34  | 34 | —   | —   |

\* Fitting is rated to the full working pressure of the hose

## 6Y4WX-x-55 - High Pressure - Male

Material: Nipple - Stainless steel  
Shell - Stainless steel



| Part Number   | Nominal I.D.  |      |      |     | Thread Size   | A Overall Length |     | B Cutoff Allowance |    | R Diameter  |    | Maximum Working Pressure  |       |
|---------------|---|------|------|-----|---|------------------|-----|--------------------|----|---|----|---|-------|
|               | DN  | Size | inch | mm  |   | inch             | mm  | inch               | mm | inch  | mm | psi   | bar   |
| <b>#</b>      |  |      |      |     |  |                  |     |                    |    |  |    |  |       |
| 6Y4WX-9-5C-55 | 8   | -05  | 5/16 | 7.9 | 9/16"-18 LH   | 5.13             | 130 | 2.47               | 63 | 1.10  | 28 | 55,000  | 3,793 |



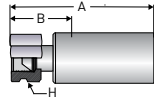
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# WX Series Fittings

## 6AYWX-x-55 - High Pressure - Male

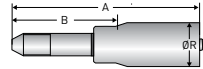
Material: Nipple - Stainless steel  
Shell - Stainless steel



| Part Number    | Nominal I.D. |      |      |     | Thread Size | A Overall Length |     | B Cutoff Allowance |    | H Hex |    | Maximum Working Pressure |       |
|----------------|--------------|------|------|-----|-------------|------------------|-----|--------------------|----|-------|----|--------------------------|-------|
| #              |              |      |      |     |             |                  |     |                    |    |       |    |                          |       |
|                | DN           | Size | inch | mm  |             | inch             | mm  | inch               | mm | inch  | mm | psi                      | bar   |
| 6AYWX-10-5C-55 | 8            | -05  | 5/16 | 7.9 | 7/8" - 14   | 4.43             | 113 | 1.77               | 45 | 1.25  | 32 | 55,000                   | 3,793 |

## 6YMWX - High Pressure Male Metric

Material: Nipple - Stainless steel  
Shell - Stainless steel



| Part Number   | Nominal I.D. |      |      |      | Thread Size | A Overall Length |     | B Cutoff Allowance |    | R Diameter |    | Maximum Working Pressure |       |
|---------------|--------------|------|------|------|-------------|------------------|-----|--------------------|----|------------|----|--------------------------|-------|
| #             |              |      |      |      |             |                  |     |                    |    |            |    |                          |       |
|               | DN           | Size | inch | mm   |             | inch             | mm  | inch               | mm | inch       | mm | psi                      | bar   |
| 6YMWX-6-5C-55 | 8            | -05  | 5/16 | 7.9  | M14x1.5-LH  | 4.72             | 120 | 2.20               | 56 | .985       | 25 | 55,000                   | 3,793 |
| 6YMWX-12-8C*  | 12           | -08  | 1/2  | 12.7 | M20x1.5-LH  | 5.43             | 138 | 3.15               | 80 | 1.345      | 34 | —                        | —     |

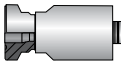
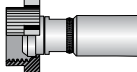

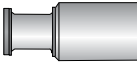
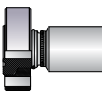
\* Fitting is rated to the full working pressure of the hose



**WARNING**

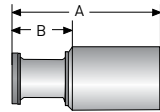
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle Fittings

|   |   |                   |   |                                      |   |   |   |                |
|---|---|-------------------|---|--------------------------------------|---|---|---|----------------|
| <b>Black Eagle Crimp Fittings</b>   | <b>HB</b>   | Hub Flange        | <b>HE</b>   | Hammer Union (Male) Cone w/ Wing Nut | <b>HN</b>   | Hammer Union (Female) Cone Threaded End w/ Seal | <b>6A</b>   | Code 62 Flange |
|   |  |                   |  |                                      |  |   |  |                |
|   | B-68  |                   | B-69, B-70  |                                      | B-71, B-72, B-73  |   | B-67  |                |
| <b>8K</b>   |   | API Hub w/ Flange |   |                                      |   |   |   |                |
|  |   | B-68              |   |                                      |   |   |   |                |

## 66A5X- Code 62 Flange

Material: Nipple - High strength stainless steel  
Shell - Stainless steel



| Part Number        | Nominal I.D. |      |      |      | A Overall Length |     | B Cutoff Allowance |     | D Diameter |    | Maximum Working Pressure |     |
|--------------------|--------------|------|------|------|------------------|-----|--------------------|-----|------------|----|--------------------------|-----|
|                    | DN           | Size | inch | mm   | inch             | mm  | inch               | mm  | inch       | mm | psi                      | bar |
| <b>#</b>           |              |      |      |      |                  |     |                    |     |            |    |                          |     |
| 66A5X-32-32-TC3964 | 50           | -32  | 2    | 50.8 | 9.75             | 248 | 4.39               | 111 | 3.13       | 79 | 5,000                    | 340 |



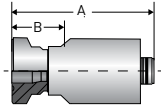
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle Fittings

## 6HB5X- API Clamping Hub

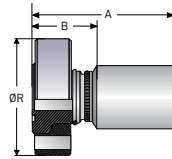
Material: Nipple - High strength stainless steel  
Shell - Stainless steel



| Part Number            | Nominal I.D. |      |       |      | API Size              | A Overall Length |     | B Cutoff Allowance |     | Seal |       | Maximum Working Pressure |     |
|------------------------|--------------|------|-------|------|-----------------------|------------------|-----|--------------------|-----|------|-------|--------------------------|-----|
|                        | DN           | Size | inch  | mm   |                       | inch             | mm  | inch               | mm  | inch | mm    | psi                      | bar |
| #                      |              |      |       |      |                       |                  |     |                    |     |      |       |                          |     |
| 6HB5X-32-24-TC-10K     | 40           | -24  | 1-1/2 | 38.1 | 2-1/16"<br>10,000 psi | 10.01            | 254 | 4.61               | 117 | —    | BX152 | 10,000                   | 680 |
| 6HB5X-32-24-TC-10K-FLG | 40           | -24  | 1-1/2 | 38.1 | 2-1/16"<br>10,000 psi | 10.01            | 254 | 4.61               | 117 | —    | BX152 | 10,000                   | 680 |
| 6HB5X-33-32-TC3964-5K  | 50           | -32  | 2     | 50.8 | 2-1/16"<br>5,000 psi  | 10.18            | 259 | 4.68               | 119 | —    | BX152 | 5,000                    | 340 |
| 6HB5X-33-32-TC3964-10K | 50           | -32  | 2     | 50.8 | 2-1/16"<br>10,000 psi | 10.70            | 272 | 5.30               | 135 | —    | BX152 | 10,000                   | 680 |
| 6HB5X-41-32-TC3964-5K  | 50           | -32  | 2     | 50.8 | 2-9/16"<br>5,000 psi  | 10.18            | 259 | 4.68               | 119 | —    | BX153 | 5,000                    | 340 |

## 68K5X- API Flange Hub

Material: Nipple - High strength stainless steel  
Shell - Stainless steel



| Part Number               | Nominal I.D. |      |      |      | API Size              | A Overall Length |     | B Cutoff Allowance |     | Seal |       | Maximum Working Pressure |     |
|---------------------------|--------------|------|------|------|-----------------------|------------------|-----|--------------------|-----|------|-------|--------------------------|-----|
|                           | DN           | Size | inch | mm   |                       | inch             | mm  | inch               | mm  | inch | mm    | psi                      | bar |
| #                         |              |      |      |      |                       |                  |     |                    |     |      |       |                          |     |
| 68K5X-33-32-17DSV3964-5K  | 50           | -32  | 2    | 50.8 | 2-1/16"<br>5,000 psi  | 10.18            | 259 | 4.68               | 119 | 8.50 | BX152 | 5,000                    | 340 |
| 68K5X-33-32-17DSV3964-10K | 50           | -32  | 2    | 50.8 | 2-1/16"<br>10,000 psi | 10.70            | 272 | 5.30               | 135 | 7.88 | BX152 | 10,000                   | 680 |
| 68K5X-41-32-17DSV3964-5K  | 50           | -32  | 2    | 50.8 | 2-9/16"<br>5,000 psi  | 10.18            | 259 | 4.68               | 119 | 9.62 | BX153 | 5,000                    | 340 |



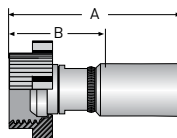
### WARNING

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## 6HE5X- Hammer Union (Male) Cone w/ Wing Nut

Material: Nipple - Carbon steel, zinc-plated  
Shell - Stainless steel  
Nut - Carbon steel

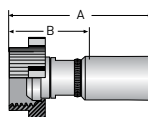


| Part Number        | Nominal I.D. |      |       |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|--------------------|--------------|------|-------|------|---------------|------------------|-----|--------------------|-----|---------------------------|-----|
|                    | DN           | Size | inch  | mm   |               | inch             | mm  | inch               | mm  | psi                       | bar |
| #                  |              |      |       |      |               |                  |     |                    |     |                           |     |
| 6HE5X-32-24-FLATTC | 40           | -24  | 1-1/2 | 38.1 | 4-1/8"-3 ACME | 9.13             | 232 | 4.25               | 108 | —                         | —   |
| 6HE5X-32-32-FLATTC | 50           | -32  | 2     | 50.8 | 4-1/8"-3 ACME | 11.50            | 292 | 6.10               | 155 | —                         | —   |
| 6HE5X-32-32-SEGTC  | 50           | -32  | 2     | 50.8 | 4-1/8"-3 ACME | 11.73            | 298 | 6.34               | 161 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1HE5X- Hammer Union (Male) Cone w/ Wing Nut

Material: Nipple - High strength steel  
COSK - High strength stainless steel  
Shell - High strength stainless steel  
Nut - Carbon steel



| Part Number             | Nominal I.D. |      |      |      | Thread Size   | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|-------------------------|--------------|------|------|------|---------------|------------------|-----|--------------------|-----|---------------------------|-----|
|                         | DN           | Size | inch | mm   |               | inch             | mm  | inch               | mm  | psi                       | bar |
| #                       |              |      |      |      |               |                  |     |                    |     |                           |     |
| 1HE5X-32-24COSK-FLAT    | 50           | -32  | 2    | 50.8 | 4-1/8"-3 ACME | 8.37             | 213 | 4.64               | 118 | —                         | —   |
| 1HE5X-32-24C4462-KOP2   | 50           | -32  | 2    | 50.8 | 4-1/8"-3 ACME | 9.13             | 232 | 4.25               | 108 | —                         | —   |
| 1HE5X-32-24C4462-FLATTC | 50           | -32  | 2    | 50.8 | 4-1/8"-3 ACME | 9.13             | 232 | 4.25               | 108 | —                         | —   |
| 1HE5X-48-48             | 78           | -48  | 3    | 76.0 | 4-1/8"-3 ACME | 15.55            | 395 | 7.24               | 184 | —                         | —   |
| 1HE5X-48-48-FLAT        | 78           | -48  | 3    | 76.0 | 4-1/8"-3 ACME | 15.55            | 395 | 7.22               | 183 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



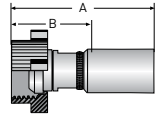
### WARNING

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# Black Eagle Fittings

## 1HECX- Hammer Union (Male) Cone w/ Wing Nut

Material: Nipple - High strength steel  
Shell - High strength stainless steel

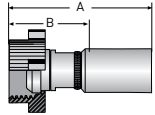


| Part Number      | Nominal I.D. |      |      |      | Thread Size     | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|------------------|--------------|------|------|------|-----------------|------------------|-----|--------------------|-----|---------------------------|-----|
|                  | DN           | Size | inch | mm   |                 | inch             | mm  | inch               | mm  | psi                       | bar |
| #                |              |      |      |      |                 |                  |     |                    |     |                           |     |
| 1HECX-32-32-FLAT | 50           | -32  | 2    | 50.8 | 4-1/8" - 3 ACME | 11.74            | 298 | 5.21               | 132 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1HELX- Hammer Union (Male) Cone w/ Wing Nut

Material: Nipple - High strength steel  
Shell - High strength stainless steel  
Nut - Carbon steel

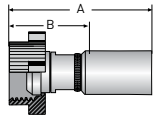


| Part Number      | Nominal I.D. |      |      |      | Thread Size         | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|------------------|--------------|------|------|------|---------------------|------------------|-----|--------------------|-----|---------------------------|-----|
|                  | DN           | Size | inch | mm   |                     | inch             | mm  | inch               | mm  | psi                       | bar |
| #                |              |      |      |      |                     |                  |     |                    |     |                           |     |
| 1HELX-48-48      | 78           | -48  | 3    | 76.0 | 5-3/8" - 3-1/2 ACME | 15.55            | 395 | 7.52               | 191 | —                         | —   |
| 1HELX-48-48-FLAT | 78           | -48  | 3    | 76.0 | 5-3/8" - 3-1/2 ACME | 15.55            | 395 | 7.24               | 184 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1HES6- Hammer Union (Male) Cone w/ Wing Nut

Material: Nipple - High strength steel  
Shell - High strength stainless steel  
Nut - Carbon steel



| Part Number         | Nominal I.D. |      |      |      | Thread Size     | A Overall Length |     | B Cutoff Allowance |    | Maximum Working Pressure* |     |
|---------------------|--------------|------|------|------|-----------------|------------------|-----|--------------------|----|---------------------------|-----|
|                     | DN           | Size | inch | mm   |                 | inch             | mm  | inch               | mm | psi                       | bar |
| #                   |              |      |      |      |                 |                  |     |                    |    |                           |     |
| 1HES6-32-32-FLAT    | 50           | -32  | 2    | 50.8 | 4-1/8" - 3 ACME | 6.69             | 170 | 2.99               | 76 | —                         | —   |
| 1HES6-32-32-FLAT-SC | 50           | -32  | 2    | 50.8 | 4-1/8" - 3 ACME | 6.69             | 170 | 2.99               | 76 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



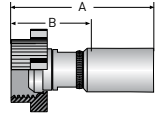
### WARNING

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# Black Eagle Fittings

## 1HETX- Hammer Union (Male) Cone w/ Wing Nut

Material: Nipple - High strength steel  
Shell - High strength stainless steel  
Nut - Carbon steel

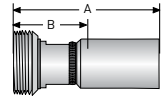


| Part Number      | Nominal I.D. |      |      |      | Thread Size       | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|------------------|--------------|------|------|------|-------------------|------------------|-----|--------------------|-----|---------------------------|-----|
|                  | DN           | Size | inch | mm   |                   | inch             | mm  | inch               | mm  | psi                       | bar |
| #                |              |      |      |      |                   |                  |     |                    |     |                           |     |
| 1HETX-48-48      | 78           | -48  | 3    | 76.0 | 5-3/8"-3 1/2 ACME | 13.39            | 340 | 6.85               | 174 | —                         | —   |
| 1HETX-48-48-FLAT | 78           | -48  | 3    | 76.0 | 5-3/8"-3 1/2 ACME | 13.39            | 340 | 6.85               | 174 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 6HN5X- Hammer Union (Female) Cone Threaded End w/ Seal

Material: Nipple - High strength steel  
Shell - Stainless steel



| Part Number    | Nominal I.D. |      |       |      | Thread Size     | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|----------------|--------------|------|-------|------|-----------------|------------------|-----|--------------------|-----|---------------------------|-----|
|                | DN           | Size | inch  | mm   |                 | inch             | mm  | inch               | mm  | psi                       | bar |
| #              |              |      |       |      |                 |                  |     |                    |     |                           |     |
| 6HN5X-32-24-TC | 40           | -24  | 1-1/2 | 38.1 | 4-1/8" - 3 ACME | 10.71            | 272 | 5.79               | 147 | —                         | —   |
| 6HN5X-32-32-TC | 50           | -32  | 2     | 50.8 | 4-1/8" - 3 ACME | 9.56             | 243 | 4.18               | 106 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



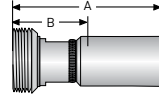
### WARNING

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# Black Eagle Fittings

## 1HN5X- Hammer Union (Female) Cone Threaded End w/ Seal

Material: Nipple - High strength steel  
Shell - High strength stainless steel

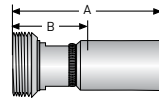


| Part Number           | Nominal I.D. |     |       |      | Thread Size       | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|-----------------------|--------------|-----|-------|------|-------------------|------------------|-----|--------------------|-----|---------------------------|-----|
|                       | #            |     |       |      |                   | inch mm          |     | inch mm            |     | psi                       | bar |
| 1HN5X-32-24C4462-KOP2 | 40           | -24 | 1-1/2 | 38.1 | 4-1/8"- 3 ACME    | 9.65             | 245 | 4.25               | 108 | —                         | —   |
| 1HN5X-32-24C4462-TC   | 40           | -24 | 1-1/2 | 38.1 | 4-1/8"- 3 ACME    | 9.65             | 245 | 4.25               | 108 | —                         | —   |
| 1HN5X-48-48           | 78           | -48 | 3     | 76.0 | 5-3/8"-3-1/2 ACME | 15.95            | 405 | 7.64               | 194 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1HNLX- Hammer Union (Female) Cone Threaded End w/ Seal

Material: Nipple - High strength steel  
Shell - High strength stainless steel

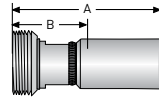


| Part Number | Nominal I.D. |     |   |      | Thread Size       | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|-------------|--------------|-----|---|------|-------------------|------------------|-----|--------------------|-----|---------------------------|-----|
|             | #            |     |   |      |                   | inch mm          |     | inch mm            |     | psi                       | bar |
| 1HNLX-48-48 | 78           | -48 | 3 | 76.0 | 5-3/8"-3-1/2 ACME | 15.95            | 405 | 7.64               | 194 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1HNS6- Hammer Union (Female) Cone Threaded End w/ Seal

Material: Nipple - High strength steel  
Shell - High strength stainless steel



| Part Number    | Nominal I.D. |     |   |      | Thread Size    | A Overall Length |     | B Cutoff Allowance |    | Maximum Working Pressure* |     |
|----------------|--------------|-----|---|------|----------------|------------------|-----|--------------------|----|---------------------------|-----|
|                | #            |     |   |      |                | inch mm          |     | inch mm            |    | psi                       | bar |
| 1HNS6-32-32    | 50           | -32 | 2 | 50.8 | 4-1/8"- 3 ACME | 6.69             | 170 | 2.99               | 76 | —                         | —   |
| 1HNS6-32-32-SC | 50           | -32 | 2 | 50.8 | 4-1/8"- 3 ACME | 6.69             | 170 | 2.99               | 76 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose



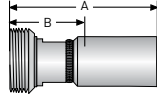
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Black Eagle Fittings

## 1HNTX- Hammer Union (Female) Cone Threaded End w/ Seal

Material: Nipple - High strength steel  
Shell - High strength stainless steel

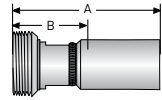


| Part Number | Nominal I.D. |      |      |      | Thread Size         | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|-------------|--------------|------|------|------|---------------------|------------------|-----|--------------------|-----|---------------------------|-----|
|             | DN           | Size | inch | mm   |                     | inch             | mm  | inch               | mm  | psi                       | bar |
| #           |              |      |      |      |                     |                  |     |                    |     |                           |     |
| 1HNTX-48-48 | 78           | -48  | 3    | 76.0 | 5-3/8" - 3 1/2 ACME | 13.78            | 350 | 7.24               | 184 | —                         | —   |

\* Fitting is rated to the full working pressure of the hose

## 1HNCX- Hammer Union (Female) Cone Threaded End w/ Seal

Material: Nipple - High strength steel  
Shell - High strength stainless steel



| Part Number | Nominal I.D. |      |      |      | Thread Size     | A Overall Length |     | B Cutoff Allowance |     | Maximum Working Pressure* |     |
|-------------|--------------|------|------|------|-----------------|------------------|-----|--------------------|-----|---------------------------|-----|
|             | DN           | Size | inch | mm   |                 | inch             | mm  | inch               | mm  | psi                       | bar |
| #           |              |      |      |      |                 |                  |     |                    |     |                           |     |
| 1HNCX-32-32 | 50           | -32  | 2    | 50.8 | 4-1/8" - 3 ACME | 11.2             | 284 | 4.65               | 118 | —                         | —   |

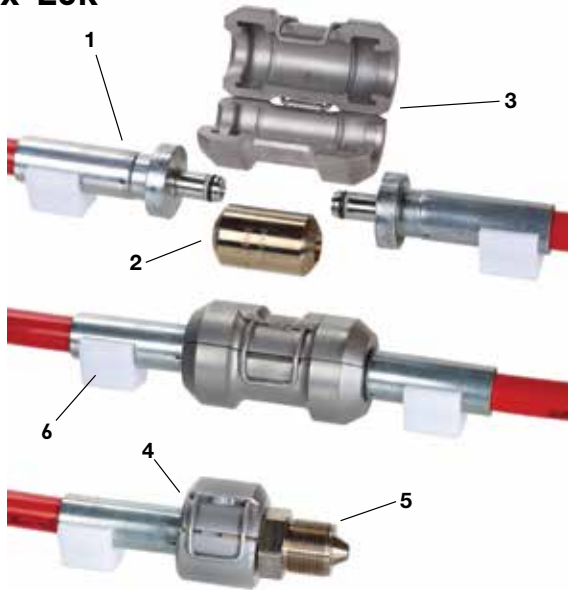
\* Fitting is rated to the full working pressure of the hose



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Polyflex-Lok



| Ref | Part Number    | Description   |
|-----|----------------|---|
| 1   | 1TM2X-8-03-HPK | Fitting for DN 5 hoses including caps                     |
|     | 1TM2X-8-05-HPK | Fitting for DN 8 hoses including caps                     |
|     | 1TMKY-8-05-HPK | Fitting for DN 8 hoses including caps                     |
|     | 1TMBL-9-08-HPK | Fitting for DN 12 hoses including caps                    |
|     | 1TMBS-9-08-HPK | Fitting for DN 12 hoses including caps                    |
| 2   | TFTF-8-8       | Hose connector bushing - DN 5 and DN 8                    |
|     | TFTF-8-9       | Hose connector bushing - connection DN 5 or DN 8 to DN 12 |
|     | TFTF-9-9       | Hose connector bushing for DN 12                          |
| 3   | HPK-HS-8       | Hose connector  |
| 4   | HPK-HSP-8      | Pump/gun connector  |
| 5   | Y6TF-6-8       | Adapter 3/4 - 16UNF to DN 5 or DN 8                       |
|     | Y6TF-9-8       | Adapter 1-1/8 - 12UNF to DN 5 or DN 8                     |
| 6   | TMCAP-8        | Cap DN 5 or DN 8  |
|     | TMCAP-9        | Cap DN 12   |

## Polyflex-Lok Pressure Rating for Size -03 / DN5: 46,400 psi

| Size | DN  | Hose Types                                   |
|------|-----|--|
| -03  | DN5 | 2640D-03Vxx<br>2740D-03Vxx<br>2740D-03Vxx/xx |

## Polyflex-Lok Pressure Rating for Size -05 / DN8: 46,400 psi

| Size | DN  | Hose Types  |
|------|-----|---|
| -05  | DN8 | 2380N-05VxxW<br>2640D-05Vxx<br>2740D-05Vxx<br>2740D-05Vxx/xx<br>2748D-05Vxx<br>2748D-05Vxx/xx<br>2840D-05Vxx/xx |

## Polyflex-Lok Pressure Rating for Size -08 / DN12: 36,250 psi

| Size | DN   | Hose Types                                |
|------|------|---|
| -08  | DN12 | 2388N-08Vxx<br>2580N-08Vxx<br>2840D-08Vxx |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# Adapters & Valves

Type "M" Adapters  
Medium Pressure  
Adapters  
High Pressure Adapters  
NPT Adapters  
JIC Adapters  
Medium Pressure Valves  
High Pressure Valves



# Table of Contents

## Introduction

|                           |     |
|---------------------------|-----|
| Adapter Nomenclature..... | C-4 |
|---------------------------|-----|

## Adapters

|  |             |
|--|-------------|
| <b>Type M</b> .....                            | <b>C-7</b>  |
| YAYA .....                                     | C-8         |
| YAY6.....                                      | C-8         |
| YAY5.....                                      | C-9         |
| YAD9 .....                                     | C-9         |
| Plugs, Caps and Torpedos .....                 | C-10        |
| <b>20,000 psi – Medium Pressure</b> .....      | <b>C-11</b> |
| 5YY5 .....                                     | C-12        |
| Y5Y5 .....                                     | C-13        |
| 6YY5 .....                                     | C-14        |
| 5YY6 .....                                     | C-15        |
| Y5Y6 .....                                     | C-16        |
| Y5D9 .....                                     | C-16        |
| 5Y5Y .....                                     | C-17        |
| 5Y6Y .....                                     | C-18        |
| L5Y .....                                      | C-18        |
| T5Y .....                                      | C-19        |
| X5Y .....                                      | C-19        |
| Y2N .....                                      | C-19        |
| Y2C .....                                      | C-20        |
| Plugs .....                                    | C-20        |
| Caps.....                                      | C-20        |
| Nipples.....                                   | C-20        |
| <b>30,000/60,000 psi – High Pressure</b> ..... | <b>C-21</b> |
| 6YY6.....                                      | C-21        |
| Y6Y6.....                                      | C-22        |
| X6Y6.....                                      | C-22        |
| 6Y6Y.....                                      | C-22        |
| Y6D9 .....                                     | C-23        |
| L6Y .....                                      | C-23        |
| T6Y.....                                       | C-23        |
| X6Y .....                                      | C-24        |
| Y4N .....                                      | C-24        |
| Y4C .....                                      | C-24        |
| Plugs .....                                    | C-24        |
| Caps.....                                      | C-25        |
| Locking Anti-Vibration Nut and Collar .....    | C-25        |
| Nipples.....                                   | C-25        |
| <b>NPT</b> .....                               | <b>C-26</b> |
| K0101.....                                     | C-27        |
| K0201.....                                     | C-28        |
| K0202.....                                     | C-29        |



# Table of Contents

Hose  
A

## Adapters (Continued)

### NPT (continued)

|            |      |
|------------|------|
| YA02.....  | C-29 |
| YA01.....  | C-30 |
| 5Y01.....  | C-31 |
| 02Y5.....  | C-32 |
| Y501.....  | C-33 |
| 5Y02.....  | C-34 |
| 6Y02.....  | C-35 |
| 6Y01.....  | C-36 |
| Y601.....  | C-37 |
| 02Y6.....  | C-38 |
| K0203..... | C-39 |
| 01D9.....  | C-39 |
| 02D9.....  | C-40 |
| KL02.....  | C-40 |
| KT02.....  | C-41 |
| KX02.....  | C-41 |
| Caps.....  | C-42 |
| Plugs..... | C-42 |

### JIC..... C-43

|            |      |
|------------|------|
| K0303..... | C-44 |
| K0306..... | C-44 |
| K0606..... | C-44 |
| YA03.....  | C-45 |
| Y503.....  | C-45 |
| Y603.....  | C-46 |
| Caps.....  | C-46 |
| Plugs..... | C-46 |

## Valves

### 20,000 psi — Medium Pressure..... C-47

|            |      |
|------------|------|
| AV5Y.....  | C-48 |
| SV5Y.....  | C-48 |
| TV25Y..... | C-49 |
| TV15Y..... | C-49 |
| CV5Y.....  | C-49 |

### 30,000/60,000 psi — High Pressure..... C-50

|            |      |
|------------|------|
| SV6Y.....  | C-50 |
| AV6Y.....  | C-50 |
| TV26Y..... | C-51 |
| TV16Y..... | C-51 |
| CV6Y.....  | C-52 |

DISCONTINUED

Fittings  
B

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

General Technical  
F

# Adapter Nomenclature

## Adapter Part Numbers

Most adapter part number structures will follow the below examples.

### Example: YA01-11-8C

**YA**01-11-8C – **Connection Type #1** (YA = Male Type M)  
**YA01**-11-8C – **Connection Type #2** (01 = Male NPT)  
**YA01-11**-8C – **Connection Size #1** (11 = 1"-12 thread size for the Type M connection)  
**YA01-11-8**C – **Connection Size #2** (8 = 1/2"-14 thread size for the NPT connection)  
**YA01-11-8C** – **Material** (316 Stainless Steel)

### Example: 15K0101-4-4C

**15K**0101-4-4C – **Pressure Rating** (15K = 15,000 psi)  
**15K01**01-4-4C – **Connection Type #1** (01 = Male NPT)  
**15K0101**-4-4C – **Connection Type #2** (01 = Male NPT)  
**15K0101-4**-4C – **Connection Size #1** (4 = 1/4" -18)  
**15K0101-4-4**C – **Connection Size #2** (4 = 1/4" -18)  
**15K0101-4-4C** – **Material** (316 Stainless Steel)

| Connection Type Designations-The choice of connection type may limit the working pressure of the adapter (i.e., a High Pressure to Type M adapter will be limited to Type M pressures). |                                     |          |                                  |    |                     |
|---|-------------------------------------|----------|----------------------------------|----|---------------------|
| YA  | Male, Type M                        | Y6       | Male, High Pressure              | 03 | Male JIC            |
| Y5  | Male, Medium Pressure               | 6Y       | Female, High Pressure            | X6 | Low Angle Face Seal |
| 5Y  | Female, Medium Pressure             | Y4       | Male, High Pressure, Tube Type   | D9 | Male BSP            |
| Y2  | Male, Medium Pressure, Torpedo Type | 01<br>02 | Male NPT Pipe<br>Female NPT Pipe |    |                     |

| Connection Tube / Thread Size |           |                 |               |                      |               |                 |        |
|-------------------------------|-----------|-----------------|---------------|----------------------|---------------|-----------------|--------|
| NPT Connections               |           | JIC Connections |               | Type "M" Connections |               | BSP Connections |        |
| -01                           | 1/16"-27  | -04             | 7/16"-20 UNF  | -06                  | 9/16"-18 UNF  | -02             | G 1/8" |
| -02                           | 1/8"-27   | -06             | 9/16"-18 UNF  | -08                  | 3/4"-16 UNF   | -04             | G 1/4" |
| -04                           | 1/4"-18   | -08             | 3/4"-16 UNF   | -10                  | 7/8"-14 UNF   | -06             | G 3/8" |
| -06                           | 3/8"-18   | -10             | 7/8"-14 UNF   | -12                  | 1"-12 UNF     | -08             | G 1/2" |
| -08                           | 1/2"-14   | -12             | 1-1/16"-12 UN | -16                  | 1-5/16"-12 UN |                 |        |
| -12                           | 3/4"-16   | -16             | 1-5/16"-12 UN |                      |               |                 |        |
| -16                           | 1"-11-1/2 |                 |               |                      |               |                 |        |

| Medium and High Pressure Port Sizes |              |               |             |               |
|-------------------------------------|--------------|---------------|-------------|---------------|
| -04                                 | -06          | -09           | -12         | -16           |
| 1/4"                                | 3/8          | 9/16          | 3/4         | 1             |
| Medium Pressure                     |              |               |             |               |
| 7/16"-20 UNF                        | 9/16"-18 UNF | 13/16"-16 UN  | 3/4"-14 NPS | 1-3/8"-12 UNF |
| High Pressure                       |              |               |             |               |
| 9/16"-18 UNF                        | 3/4"-16 UNF  | 1-1/8"-12 UNF |             |               |

# Adapter Nomenclature

Hose  
A

## Connection Accessory Part Numbers — Crosses, Elbows and Tees

Connection accessories include crosses, elbows and tees. Part numbers for these accessories will always begin with a one-letter code (X, L or T) designating the accessory type, followed by a two-digit code representing the connection type. The connection size and material make up the end of the part number.

### Example: L-6Y-9C

**L-6Y-9C** – **Accessory Type** (L = Elbow)  
**L-6Y-9C** – **Connection Type** (6Y = Female high pressure connection)  
**L-6Y-9C** – **Connection Size** (9 = 1-1/8"-12 UNF thread size)  
**L-6Y-9C** – **Material** (316 Stainless Steel)

Fittings  
B

| Accessory Type |                        |
|----------------|------------------------|
| X              | Code given for Crosses |
| L              | Code given for Elbows  |
| T              | Code given for Tees    |

| Connection Type |                        |
|-----------------|------------------------|
| 02              | Female NPT             |
| 5Y              | Female Medium Pressure |
| 6Y              | Female High Pressure   |

| NPT - Connection Tube / Thread Size |         |         |         |         |         |           |
|-------------------------------------|---------|---------|---------|---------|---------|-----------|
| -01                                 | -02     | -04     | -06     | -08     | -12     | -16       |
| 1/8"                                | 1/8"    | 1/4"    | 3/8     | 1/2     | 3/4     | 1         |
| 1/16"-27                            | 1/8"-27 | 1/4"-18 | 3/8"-18 | 1/2"-14 | 3/4"-14 | 1"-11-1/2 |

| Medium & High Pressure - Connection Tube / Thread Size |              |               |             |               |
|--|--------------|---------------|-------------|---------------|
| -04  | -06          | -09           | -12         | -16           |
| 1/4"   | 3/8          | 9/16          | 3/4         | 1             |
| Medium Pressure  |              |               |             |               |
| 7/16"-20 UNF   | 9/16"-18 UNF | 13/16"-16 UN  | 3/4"-14 NPS | 1-3/8"-12 UNF |
| High Pressure  |              |               |             |               |
| 9/16"-18 UNF   | 3/4"-16 UNF  | 1-1/8"-12 UNF |             |               |

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

General Technical  
F

# Adapter Nomenclature

## Connection Accessory Part Numbers — Gland Nuts and Collars

Gland nuts and collars are simple in their make-up. Unlike crosses, elbows and tees, the gland nut and collar part numbers begin with the connection type followed by a one-letter code identifying the part as a gland nut or collar. The connection size and material codes make up the end of the part number.

### Example: Y4N-6C

**Y4N-6C** – **Connection Type** (Y4 = High Pressure)

**Y4N-6C** – **Accessory Type** (N = Gland Nut)

**Y4N-6C** – **Connection Size** (06 = 3/8")

**Y4N-6C** – **Material** (316 Stainless Steel)

| Connection Type |                            | Accessory Type |            |
|-----------------|----------------------------|----------------|------------|
| Y2              | Medium Pressure Connection | N              | Gland Nuts |
| Y4              | High Pressure Connection   | C              | Collars    |

| Medium and High Pressure Port Sizes |              |               |             |               |
|-------------------------------------|--------------|---------------|-------------|---------------|
| -04                                 | -06          | -09           | -12         | -16           |
| 1/4"                                | 3/8          | 9/16          | 3/4         | 1             |
| Medium Pressure                     |              |               |             |               |
| 7/16"-20 UNF                        | 9/16"-18 UNF | 13/16"-16 UN  | 3/4"-14 NPS | 1-3/8"-12 UNF |
| High Pressure                       |              |               |             |               |
| 9/16"-18 UNF                        | 3/4"-16 UNF  | 1-1/8"-12 UNF |             |               |

## Connection Accessory Part Numbers — Threaded Tube Nipples

### Example: Y406-0800C

**Y406-0800C** – **Connection Type** (Y4 = High Pressure)

**Y406-0800C** – **Tube Size** (06 = 3/8")

**Y406-0800C** – **Tube Length** (0800 = 8" length)

**Y406-0800C** – **Material** (316 Stainless Steel)

| Connection Type |                 |
|-----------------|-----------------|
| Y2              | Medium Pressure |
| Y4              | High Pressure   |

| Tube Size |       |
|-----------|-------|
| 04        | 1/4"  |
| 06        | 3/8"  |
| 09        | 9/16" |

| Tube Length                                 |               |
|---|---------------|
| 0300  | 3" in length  |
| 0400  | 4" in length  |
| 0600  | 6" in length  |
| 0800  | 8" in length  |
| 1000  | 10" in length |
| Length = distance between tips of each cone |               |

# Type "M" Adapters



The Type "M" adapters have a 60° female cone. Each Type "M" adapter is **rated for the full working pressure of the hose.**

## Thread Sizes:

- 06 9/16"-18 UNF
- 08 3/4"-16 UNF
- 10 7/8"-14 UNF
- 11 1"-12 UNF
- 16 1-5/16"-12 UN

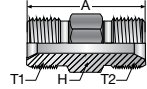


### WARNING

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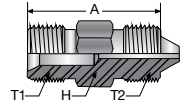
# Type "M" Adapters

## YAYA — Male Type "M" x Male Type "M"



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| YAYA-6-6C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.38             | 35.05 | 0.63  | 16.00 | 60,000                   | 4,140 |
| YAYA-8-6C   | 3/4"-16 UNF    | 9/16"-18 UNF   | 1.63             | 41.40 | 0.75  | 19.05 | 30,000                   | 2,070 |
| YAYA-8-8C   | 3/4"-16 UNF    | 3/4"-16 UNF    | 1.75             | 44.45 | 0.75  | 19.05 | 30,000                   | 2,070 |
| YAYA-10-6C  | 7/8"-14 UNF    | 9/16"-18 UNF   | 1.88             | 47.75 | 1.00  | 25.40 | 60,000                   | 4,140 |
| YAYA-10-10C | 7/8"-14 UNF    | 7/8"-14 UNF    | 2.00             | 50.80 | 1.00  | 25.40 | 50,000                   | 3,445 |
| YAYA-11-8C  | 1"-12 UNF      | 3/4"-16 UNF    | 1.88             | 47.75 | 1.00  | 25.40 | 30,000                   | 2,070 |
| YAYA-11-10C | 1"-12 UNF      | 7/8" 14 UNF    | 1.98             | 50.29 | 1.00  | 25.40 | 30,000                   | 2,070 |
| YAYA-11-11C | 1"-12 UNF      | 1"-12 UNF      | 1.88             | 47.75 | 1.00  | 25.40 | 30,000                   | 2,070 |
| YAYA-16-11C | 1-5/16"-12 UN  | 1"-12 UNF      | 2.13             | 54.10 | 1.38  | 35.05 | 20,000                   | 1,380 |
| YAYA-16-16C | 1-5/16"-12 UN  | 1-5/16"-12 UN  | 2.13             | 54.10 | 1.38  | 35.05 | 20,000                   | 1,380 |

## YAY6 — Male Type "M" x Male High Pressure



| Part Number | T1 Thread Size | T2 Thread Size | Nominal Tube Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|-------------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                |                   | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                   |                  |       |       |       |                          |       |
| YAY6-6-4C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1/4" HP           | 1.53             | 38.86 | 0.63  | 16.00 | 60,000                   | 4,140 |
| YAY6-6-6C   | 9/16"-18 UNF   | 3/4"-16 UNF    | 3/8" HP           | 1.75             | 44.45 | 0.75  | 19.05 | 60,000                   | 4,140 |
| YAY6-6-9C   | 9/16"-18 UNF   | 1-1/8"-12 UNF  | 9/16" HP          | 2.00             | 50.80 | 1.13  | 28.70 | 60,000                   | 4,140 |
| YAY6-8-6C   | 3/4"-16 UNF    | 3/4"-16 UNF    | 3/8" HP           | 2.00             | 50.80 | 0.75  | 19.05 | 30,000                   | 2,070 |
| YAY6-8-9C   | 3/4"-16 UNF    | 1-1/8"-12 UNF  | 9/16" HP          | 2.25             | 57.15 | 1.13  | 28.70 | 30,000                   | 2,070 |
| YAY6-10-6C  | 7/8"-14 UNF    | 3/4"-16 UNF    | 3/8" HP           | 2.25             | 57.15 | 1.00  | 25.40 | 60,000                   | 4,140 |
| YAY6-10-9C  | 7/8"-14 UNF    | 1-1/8"-12 UNF  | 9/16" HP          | 2.38             | 60.45 | 1.13  | 28.70 | 60,000                   | 4,140 |
| YAY6-11-9C  | 1"-12 UNF      | 1-1/8"-12 UNF  | 9/16" HP          | 2.25             | 57.15 | 1.13  | 28.70 | 30,000                   | 2,070 |

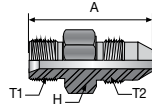


**WARNING**

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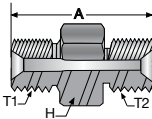
# Type "M" Adapters

## YAY5 — Male Type "M" x Male Medium Pressure



| Part Number | T1 Thread Size | T2 Thread Size | Nominal Tube Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|-------------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                |                   | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                   |                  |       |       |       |                          |       |
| YAY5-6-4C   | 9/16"-18 UNF   | 7/16"-20 UNF   | 1/4" MP           | 1.56             | 39.62 | 0.63  | 16.00 | 20,000                   | 1,380 |
| YAY5-6-6C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 3/8" MP           | 1.63             | 41.40 | 0.63  | 16.00 | 20,000                   | 1,380 |
| YAY5-6-9C   | 9/16"-18 UNF   | 13/16"-16 UN   | 9/16" MP          | 2.00             | 50.80 | 0.88  | 22.35 | 20,000                   | 1,380 |
| YAY5-6-12C  | 9/16"-18 UNF   | 3/4"-14 NPS    | 3/4" MP           | 2.32             | 58.93 | 1.13  | 28.70 | 20,000                   | 1,380 |
| YAY5-8-4C   | 3/4"-16 UNF    | 7/16"-20 UNF   | 1/4" MP           | 1.68             | 42.67 | 0.75  | 19.05 | 20,000                   | 1,380 |
| YAY5-8-6C   | 3/4"-16 UNF    | 9/16"-18 UNF   | 3/8" MP           | 1.88             | 47.75 | 0.75  | 19.05 | 20,000                   | 1,380 |
| YAY5-8-9C   | 3/4"-16 UNF    | 13/16"-16 UN   | 9/16" MP          | 2.20             | 55.88 | 0.88  | 22.35 | 20,000                   | 1,380 |
| YAY5-8-12C  | 3/4"-16 UNF    | 3/4"-14 NPS    | 3/4" MP           | 2.44             | 61.98 | 1.13  | 28.70 | 20,000                   | 1,380 |
| YAY5-11-4C  | 1"-12 UNF      | 7/16"-20 UNF   | 1/4" MP           | 1.94             | 49.28 | 1.00  | 25.40 | 20,000                   | 1,380 |
| YAY5-11-6C  | 1"-12 UNF      | 9/16"-18 UNF   | 3/8" MP           | 2.00             | 50.80 | 1.00  | 25.40 | 20,000                   | 1,380 |
| YAY5-11-9C  | 1"-12 UNF      | 13/16"-16 UN   | 9/16" MP          | 2.25             | 57.15 | 1.00  | 25.40 | 20,000                   | 1,380 |
| YAY5-11-12C | 1"-12 UNF      | 3/4"-14 NPS    | 3/4" MP           | 2.44             | 61.98 | 1.13  | 28.70 | 20,000                   | 1,380 |
| YAY5-16-9C  | 1-5/16"-12 UN  | 13/16"-16 UN   | 9/16" MP          | 2.50             | 63.50 | 1.38  | 35.05 | 20,000                   | 1,380 |
| YAY5-16-12C | 1-5/16"-12 UN  | 3/4"-14 NPS    | 3/4" MP           | 2.70             | 68.58 | 1.38  | 35.05 | 20,000                   | 1,380 |

## YAD9 — Male Type "M" x Male BSP



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| YAD9-6-4C   | 9/16"-18 UNF   | G 1/4"-19      | 1.36             | 34.54 | 0.75  | 19.05 | 30,000                   | 2,070 |
| YAD9-6-6C*  | 9/16"-18 UNF   | G 3/8"-19      | 1.36             | 34.54 | 0.875 | 22.23 | 30,000                   | 2,070 |
| YAD9-6-8C*  | 9/16"-18 UNF   | G 1/2"-14      | 1.54             | 39.12 | 1.00  | 25.40 | 30,000                   | 2,070 |

\*Non-standard part - may require longer lead time






### WARNING

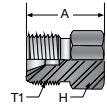
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Hose  
A  
Fittings  
B  
Adapters & Valves  
C  
Quick Couplings  
D  
Accessories  
E  
General Technical  
F




# Type "M" Adapters

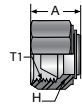
## Plugs

| Part Number | T1 Thread Size  | A Overall Length |       | H Hex   |   | Maximum Working Pressure |       |
|-------------|---|------------------|-------|---|---|--------------------------|-------|
|             |   | inch             | mm    | inch  | mm  | psi                      | bar   |
| #           |  |                  |       |  |  |                          |       |
| YA6C-PLUG   | 9/16"-18 UNF  | 2.07             | 52.58 | 0.75  | 19.05   | 60,000                   | 4,140 |
| YA8C-PLUG   | 3/4"-16 UNF   | 2.13             | 54.10 | 1.00  | 25.40   | 30,000                   | 2,070 |
| YA11C-PLUG  | 1"-12 UNF   | 1.25             | 31.75 | 1.00  | 25.40   | 30,000                   | 2,070 |
| YA16C-PLUG  | 1-5/16"-12 UN   | 2.63             | 66.80 | 1.38  | 35.05   | 20,000                   | 1,380 |







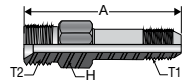
## Caps

| Part Number | T1 Thread Size  | A Overall Length |       | H Hex   |   | Maximum Working Pressure |       |
|-------------|---|------------------|-------|---|---|--------------------------|-------|
|             |   | inch             | mm    | inch  | mm  | psi                      | bar   |
| #           |  |                  |       |  |  |                          |       |
| AY6C-CAP    | 9/16"-18 UNF  | 0.85             | 21.59 | 0.69  | 17.53   | 60,000                   | 4,140 |
| AY8C-CAP    | 3/4"-16 UNF   | 0.91             | 23.11 | 1.00  | 25.40   | 30,000                   | 2,070 |
| AY11C-CAP   | 1"-12 UNF   | 1.31             | 33.27 | 1.25  | 31.75   | 30,000                   | 2,070 |
| AY16C-CAP   | 1-5/16"-12 UN   | 1.20             | 30.48 | 1.50  | 38.10   | 20,000                   | 1,380 |



## Torpedos

| Part Number | T1 Thread Size  | T2 Thread Size  | A Overall Length |       | H Hex   |   | Maximum Working Pressure |       |
|-------------|---|---|------------------|-------|---|---|--------------------------|-------|
|             |   |   | inch             | mm    | inch  | mm  | psi                      | bar   |
| #           |  |  |                  |       |  |  |                          |       |
| YAY1-8-16C  | 3/4"-16 UNF   | 1"-14 LH  | 3.56             | 90.42 | 1.13  | 28.70   | 20,000                   | 1,380 |
| YAY2-8-16C  | 3/4"-16 UNF   | 1"-14 LH  | 3.56             | 90.42 | 1.38  | 35.05   | 20,000                   | 1,380 |
| YAY1-11-16C | 1"-12 UNF   | 1"-14 LH  | 3.56             | 90.42 | 1.13  | 28.70   | 20,000                   | 1,380 |
| YAY2-11-16C | 1"-12 UNF   | 1"-14 LH  | 3.56             | 90.42 | 1.38  | 35.05   | 20,000                   | 1,380 |
| YAY1-16-16C | 1-5/16"-12 UN   | 1"-14 LH  | 3.70             | 93.98 | 1.38  | 35.05   | 20,000                   | 1,380 |
| YAY2-16-16C | 1-5/16"-12 UN   | 1"-14 LH  | 3.70             | 93.98 | 1.38  | 35.05   | 20,000                   | 1,380 |



### WARNING

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# Medium Pressure Adapters



Medium Pressure is a 58/60 degree coned and threaded tubing design. They have a **maximum working pressure rating of 20,000 psi.**

## Advantages:

- An industry standard for use at elevated pressures
- Large orifice allows maximum flow of liquids and gases
- Suitable for repetitive assembly and disassembly

## Thread Sizes - determined by tube OD:

- 04 1/4" O.D. x 0.109" I.D. — 7/16"-20 male thread on gland nut
- 06 3/8" O.D. x 0.19" I.D. — 9/16"-18 male thread on gland nut
- 09 9/16" O.D. x 0.31" I.D. — 13/16"-16 male thread on gland nut
- 12 3/4" O.D. x 0.44" I.D. — 3/4"-National Pipe Straight male on gland nut
- 16 1" O.D. x 0.56" I.D. — 1-3/8"-12 male thread on gland nut

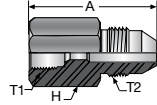


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# Medium Pressure Adapters

## 5YY5 — Female Medium Pressure x Male Medium Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 5YY5-4-6C   | 7/16"-20 UNF   | 9/16"-18 UNF   | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5YY5-4-9C   | 7/16"-20 UNF   | 13/16"-16 UN   | 1.87             | 47.50 | 0.87  | 22.10 | 20,000                   | 1,380 |
| 5YY5-4-12C  | 7/16"-20 UNF   | 3/4"-14 NPS    | 2.00             | 50.80 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 5YY5-4-16C  | 7/16"-20 UNF   | 1-3/8"-12 UNF  | 3.00             | 76.20 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5YY5-6-4C   | 9/16"-18 UNF   | 7/16"-20 UNF   | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5YY5-6-9C   | 9/16"-18 UNF   | 13/16"-16 UN   | 1.87             | 47.50 | 0.87  | 22.10 | 20,000                   | 1,380 |
| 5YY5-6-12C  | 9/16"-18 UNF   | 3/4"-14 NPS    | 2.00             | 50.80 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 5YY5-6-16C* | 9/16"-18 UNF   | 1-3/8"-12 UNF  | 3.12             | 79.25 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5YY5-9-4C   | 13/16"-16 UN   | 7/16"-20 UNF   | 2.12             | 53.85 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5YY5-9-6C   | 13/16"-16 UN   | 9/16"-18 UNF   | 2.12             | 53.85 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5YY5-9-12C  | 13/16"-16 UN   | 3/4"-14 NPS    | 2.50             | 63.50 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 5YY5-9-16C  | 13/16"-16 UN   | 1-3/8"-12 UNF  | 3.37             | 85.60 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5YY5-12-4C* | 3/4"-14 NPS    | 7/16"-20 UNF   | 1.25             | 31.75 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5YY5-12-6C  | 3/4"-14 NPS    | 9/16"-18 UNF   | 2.37             | 60.20 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5YY5-12-9C  | 3/4"-14 NPS    | 13/16"-16 UN   | 2.87             | 72.90 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5YY5-12-16C | 3/4"-14 NPS    | 1-3/8"-12 UNF  | 3.75             | 95.25 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5YY5-16-4C  | 1-3/8"-12 UNF  | 7/16"-20 UNF   | 2.75             | 69.85 | 1.75  | 44.45 | 20,000                   | 1,380 |
| 5YY5-16-6C  | 1-3/8"-12 UNF  | 9/16"-18 UNF   | 2.87             | 72.90 | 1.75  | 44.45 | 20,000                   | 1,380 |
| 5YY5-16-9C  | 1-3/8"-12 UNF  | 13/16"-16 UN   | 3.00             | 76.20 | 1.75  | 44.45 | 20,000                   | 1,380 |
| 5YY5-16-12C | 1-3/8"-12 UNF  | 3/4"-14 NPS    | 3.25             | 82.55 | 1.75  | 44.45 | 20,000                   | 1,380 |

\*Non-standard part - may require longer lead time

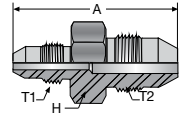


### WARNING

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# Medium Pressure Adapters

## Y5Y5 — Male Medium Pressure x Male Medium Pressure



| Part Number<br># | T1<br>Thread Size | T2<br>Thread Size | A<br>Overall Length |        | H<br>Hex |       | Maximum Working Pressure |       |
|------------------|-------------------|-------------------|---------------------|--------|----------|-------|--------------------------|-------|
|                  |                   |                   | inch                | mm     | inch     | mm    | psi                      | bar   |
| Y5Y5-4-4C        | 7/16"-20 UNF      | 7/16"-20 UNF      | 2.00                | 50.80  | 0.62     | 15.75 | 20,000                   | 1,380 |
| Y5Y5-4-6C        | 7/16"-20 UNF      | 9/16"-18 UNF      | 2.12                | 53.85  | 0.75     | 19.05 | 20,000                   | 1,380 |
| Y5Y5-4-9C        | 7/16"-20 UNF      | 13/16"-16 UN      | 2.18                | 55.37  | 0.875    | 22.23 | 20,000                   | 1,380 |
| Y5Y5-4-12C       | 7/16"-20 UNF      | 3/4"-14 NPS       | 2.50                | 63.50  | 1.12     | 28.45 | 20,000                   | 1,380 |
| Y5Y5-4-16C       | 7/16"-20 UNF      | 1-3/8"-12 UNF     | 3.62                | 91.95  | 1.00     | 25.40 | 20,000                   | 1,380 |
| Y5Y5-6-6C        | 9/16"-18 UNF      | 9/16"-18 UNF      | 2.25                | 57.15  | 0.75     | 19.05 | 20,000                   | 1,380 |
| Y5Y5-6-9C        | 9/16"-18 UNF      | 13/16"-16 UN      | 2.50                | 63.50  | 0.875    | 22.10 | 20,000                   | 1,380 |
| Y5Y5-6-12C       | 9/16"-18 UNF      | 3/4"-14 NPS       | 2.62                | 66.55  | 1.12     | 28.45 | 20,000                   | 1,380 |
| Y5Y5-6-16C       | 9/16"-18 UNF      | 1-3/8"-12 UNF     | 3.75                | 95.25  | 1.00     | 25.40 | 20,000                   | 1,380 |
| Y5Y5-9-9C        | 13/16"-16 UN      | 13/16"-16 UN      | 2.50                | 63.50  | 1.00     | 25.40 | 20,000                   | 1,380 |
| Y5Y5-9-12C       | 13/16"-16 UN      | 3/4"-14 NPS       | 2.87                | 72.90  | 1.12     | 28.45 | 20,000                   | 1,380 |
| Y5Y5-9-16C       | 13/16"-16 UN      | 1-3/8"-12 UNF     | 4.00                | 101.60 | 1.00     | 25.40 | 20,000                   | 1,380 |
| Y5Y5-12-12C      | 3/4"-14 NPS       | 3/4"-14 NPS       | 3.00                | 76.20  | 1.12     | 28.45 | 20,000                   | 1,380 |
| Y5Y5-12-16C      | 3/4"-14 NPS       | 1-3/8"-12 UNF     | 1.25                | 31.75  | 1.12     | 28.45 | 20,000                   | 1,380 |
| Y5Y5-16-16C      | 1-3/8"-12 UNF     | 1-3/8"-12 UNF     | 4.25                | 107.95 | 1.375    | 34.93 | 20,000                   | 1,380 |

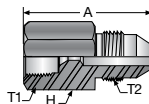


### WARNING

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# Medium Pressure Adapters

## 6YY5 — Female High Pressure x Male Medium Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 6YY5-4-4C   | 9/16"-18 UNF   | 7/16"-20 UNF   | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 6YY5-4-6C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 6YY5-4-9C   | 9/16"-18 UNF   | 13/16"-16 UN   | 1.87             | 47.50 | 0.87  | 22.10 | 20,000                   | 1,380 |
| 6YY5-4-12C* | 9/16"-18 UNF   | 3/4"-14 NPS    | 2.25             | 57.15 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 6YY5-4-16C  | 9/16"-18 UNF   | 1-3/8"-12 UNF  | 3.00             | 76.20 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 6YY5-6-4C   | 3/4"-16 UNF    | 7/16"-20 UNF   | 1.87             | 47.50 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 6YY5-6-6C   | 3/4"-16 UNF    | 9/16"-18 UNF   | 1.87             | 47.50 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 6YY5-6-9C*  | 3/4"-16 UNF    | 13/16"-16 UN   | 2.00             | 50.80 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 6YY5-6-12C  | 3/4"-16 UNF    | 3/4"-14 NPS    | 2.25             | 57.15 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 6YY5-6-16C  | 3/4"-16 UNF    | 1-3/8"-12 UNF  | 3.25             | 82.55 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 6YY5-9-4C   | 1-1/8"-12 UNF  | 7/16"-20 UNF   | 2.12             | 53.85 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 6YY5-9-6C*  | 1-1/8"-12 UNF  | 9/16"-18 UNF   | 2.12             | 53.85 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 6YY5-9-9C   | 1-1/8"-12 UNF  | 13/16"-16 UN   | 2.37             | 60.20 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 6YY5-9-12C  | 1-1/8"-12 UNF  | 3/4"-14 NPS    | 2.50             | 63.50 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 6YY5-9-16C  | 1-1/8"-12 UNF  | 1-3/8"-12 UNF  | 3.62             | 91.95 | 1.37  | 34.80 | 20,000                   | 1,380 |

\*Non-standard part - may require longer lead time



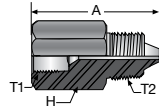
### WARNING

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# Medium Pressure Adapters

## 5YY6 — Female Medium Pressure x Male High Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 5YY6-4-4C   | 7/16"-20 UNF   | 9/16"-18 UNF   | 1.37             | 34.80 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5YY6-4-6C   | 7/16"-20 UNF   | 3/4"-16 UNF    | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5YY6-4-9C   | 7/16"-20 UNF   | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 5YY6-6-4C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5YY6-6-6C   | 9/16"-18 UNF   | 3/4"-16 UNF    | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5YY6-6-9C   | 9/16"-18 UNF   | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 5YY6-9-4C   | 13/16"-16 UN   | 9/16"-18 UNF   | 1.87             | 47.50 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5YY6-9-6C   | 13/16"-16 UN   | 3/4"-16 UNF    | 2.12             | 53.85 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5YY6-9-9C   | 13/16"-16 UN   | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 20,000                   | 1,380 |
| 5YY6-12-4C  | 3/4"-14 NPS    | 9/16"-18 UNF   | 2.50             | 63.50 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5YY6-12-6C  | 3/4"-14 NPS    | 3/4"-16 UNF    | 2.37             | 60.20 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5YY6-12-9C  | 3/4"-14 NPS    | 1-1/8"-12 UNF  | 2.62             | 66.55 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5YY6-16-4C* | 1-3/8"-12 UNF  | 9/16"-18 UNF   | 2.62             | 66.55 | 1.75  | 44.45 | 20,000                   | 1,380 |
| 5YY6-16-6C* | 1-3/8"-12 UNF  | 3/4"-16 UNF    | 2.87             | 72.90 | 1.75  | 44.45 | 20,000                   | 1,380 |
| 5YY6-16-9C  | 1-3/8"-12 UNF  | 1-1/8"-12 UNF  | 3.12             | 79.25 | 1.75  | 44.45 | 20,000                   | 1,380 |

\*Non-standard part - may require longer lead time

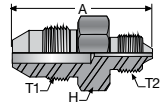


### WARNING

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# Medium Pressure Adapters

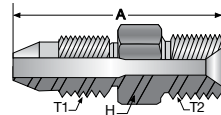
## Y5Y6 — Male Medium Pressure x Male High Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |        | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|--------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm     | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |        |       |       |                          |       |
| Y5Y6-4-4C   | 7/16"-20 UNF   | 9/16"-18 UNF   | 1.73             | 43.94  | 0.63  | 16.00 | 20,000                   | 1,380 |
| Y5Y6-4-6C   | 7/16"-20 UNF   | 3/4"-16 UNF    | 2.10             | 53.34  | 0.75  | 19.05 | 20,000                   | 1,380 |
| Y5Y6-4-9C   | 7/16"-20 UNF   | 1-1/8"-12 UNF  | 2.37             | 60.20  | 1.12  | 28.45 | 20,000                   | 1,380 |
| Y5Y6-6-4C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 2.12             | 53.85  | 0.62  | 15.75 | 20,000                   | 1,380 |
| Y5Y6-6-9C   | 9/16"-18 UNF   | 1-1/8"-12 UNF  | 2.50             | 63.50  | 1.12  | 28.45 | 20,000                   | 1,380 |
| Y5Y6-9-4C   | 13/16"-16 UN   | 9/16"-18 UNF   | 2.25             | 57.15  | 0.87  | 22.10 | 20,000                   | 1,380 |
| Y5Y6-9-6C   | 13/16"-16 UN   | 3/4"-16 UNF    | 2.38             | 60.45  | 0.875 | 22.23 | 20,000                   | 1,380 |
| Y5Y6-9-9C   | 13/16"-16 UN   | 1-1/8"-12 UNF  | 2.62             | 66.55  | 1.12  | 28.45 | 20,000                   | 1,380 |
| Y5Y6-12-4C  | 3/4"-14 NPS    | 9/16"-18 UNF   | 2.62             | 66.55  | 1.12  | 28.45 | 20,000                   | 1,380 |
| Y5Y5-12-6C* | 3/4"-14 NPS    | 3/4"-16 UNF    | 2.75             | 69.85  | 1.12  | 28.45 | 20,000                   | 1,380 |
| Y5Y6-12-9C  | 3/4"-14 NPS    | 1-1/8"-12 UNF  | 3.00             | 76.20  | 1.12  | 28.45 | 20,000                   | 1,380 |
| Y5Y6-16-4C* | 1-3/8"-12 UNF  | 9/16"-18 UNF   | 3.62             | 91.95  | 1.00  | 25.40 | 20,000                   | 1,380 |
| Y5Y6-16-6C* | 1-3/8"-12 UNF  | 3/4"-16 UNF    | 4.00             | 101.60 | 1.00  | 25.40 | 20,000                   | 1,380 |
| Y5Y6-16-9C  | 1-3/8"-12 UNF  | 1-1/8"-12 UNF  | 4.00             | 101.60 | 1.12  | 28.45 | 20,000                   | 1,380 |

\*Non-standard part - may require longer lead time

## Y5D9 — Male Medium Pressure x Male BSP



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| Y5D9-4-4C   | 7/16"-20 UNF   | G1/4-19        | 1.47             | 37.34 | 0.75  | 19.05 | 20,000                   | 1,380 |
| Y5D9-6-4C   | 9/16"-18 UNF   | G1/4-19        | 1.69             | 42.93 | 0.75  | 19.05 | 20,000                   | 1,380 |
| Y5D9-6-6C   | 9/16"-18 UNF   | G3/8-19        | 1.66             | 42.16 | 0.875 | 22.23 | 20,000                   | 1,380 |
| Y5D9-9-6C   | 13/16"-16 UN   | G3/8-19        | 1.88             | 47.75 | 0.875 | 22.23 | 20,000                   | 1,380 |



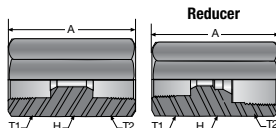
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Medium Pressure Adapters

## 5Y5Y — Female / Female Medium Pressure, Straight Coupling



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 5Y5Y-4-4C   | 7/16"-20 UNF   | 7/16"-20 UNF   | 1.62             | 41.15 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5Y5Y-6-6C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5Y5Y-9-9C   | 13/16"-16 UN   | 13/16"-16 UN   | 2.12             | 53.85 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5Y5Y-12-12C | 3/4"-14 NPS    | 3/4"-14 NPS    | 2.50             | 63.50 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y5Y-16-16C | 1-3/8"-12 UNF  | 1-3/8"-12 UNF  | 3.50             | 88.90 | 1.75  | 44.45 | 20,000                   | 1,380 |

## Reducer Coupling

|             |              |               | inch | mm    | inch | mm    | psi    | bar   |
|-------------|--------------|---------------|------|-------|------|-------|--------|-------|
| 5Y5Y-4-6C   | 7/16"-20 UNF | 9/16"-18 UNF  | 1.75 | 44.45 | 0.75 | 19.05 | 20,000 | 1,380 |
| 5Y5Y-4-9C   | 7/16"-20 UNF | 13/16"-16 UN  | 2.12 | 53.85 | 1.00 | 25.40 | 20,000 | 1,380 |
| 5Y5Y-4-12C* | 7/16"-20 UNF | 3/4"-14 NPS   | 2.50 | 63.50 | 1.37 | 34.80 | 20,000 | 1,380 |
| 5Y5Y-4-16C  | 7/16"-20 UNF | 1-3/8"-12 UNF | 3.50 | 88.90 | 1.75 | 44.45 | 20,000 | 1,380 |
| 5Y5Y-6-9C   | 9/16"-18 UNF | 13/16"-16 UN  | 2.12 | 53.85 | 1.00 | 25.40 | 20,000 | 1,380 |
| 5Y5Y-6-12C  | 9/16"-18 UNF | 3/4"-14 NPS   | 2.50 | 63.50 | 1.37 | 34.80 | 20,000 | 1,380 |
| 5Y5Y-6-16C  | 9/16"-18 UNF | 1-3/8"-12 UNF | 3.50 | 88.90 | 1.75 | 44.45 | 20,000 | 1,380 |
| 5Y5Y-9-12C  | 13/16"-16 UN | 3/4"-14 NPS   | 2.50 | 63.50 | 1.37 | 34.80 | 20,000 | 1,380 |
| 5Y5Y-9-16C  | 13/16"-16 UN | 1-3/8"-12 UNF | 3.50 | 88.90 | 1.75 | 44.45 | 20,000 | 1,380 |
| 5Y5Y-12-16C | 3/4"-14 NPS  | 1-3/8"-12 UNF | 3.50 | 88.90 | 1.75 | 44.45 | 20,000 | 1,380 |

\*Non-standard part - may require longer lead time



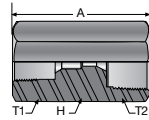
### WARNING

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# Medium Pressure Adapters

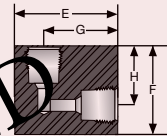
## 5Y6Y — Female Medium Pressure x Female High Pressure Coupling



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 5Y6Y-4-4C   | 7/16" -20 UNF  | 9/16" -18 UNF  | 1.62             | 41.15 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5Y6Y-4-6C   | 7/16" -20 UNF  | 3/4" -16 UNF   | 1.87             | 47.50 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5Y6Y-4-9C*  | 7/16" -20 UNF  | 1-1/8" -12 UNF | 2.37             | 60.20 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-6-4C   | 9/16" -18 UNF  | 9/16" -18 UNF  | 1.75             | 44.45 | 0.75  | 19.05 | 20,000                   | 1,380 |
| 5Y6Y-6-6C   | 9/16" -18 UNF  | 3/4" -16 UNF   | 1.87             | 47.50 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5Y6Y-6-9C   | 9/16" -18 UNF  | 1-1/8" -12 UNF | 2.37             | 60.20 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-9-4C   | 13/16" -16 UN  | 9/16" -18 UNF  | 2.12             | 53.85 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5Y6Y-9-6C   | 13/16" -16 UN  | 3/4" -16 UNF   | 2.37             | 60.20 | 1.00  | 25.40 | 20,000                   | 1,380 |
| 5Y6Y-9-9C   | 13/16" -16 UN  | 1-1/8" -12 UNF | 1.75             | 44.45 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-12-4C  | 3/4" -14 NPS   | 9/16" -18 UNF  | 2.50             | 63.50 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-12-6C* | 3/4" -14 NPS   | 3/4" -16 UNF   | 2.50             | 63.50 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-12-9C  | 3/4" -14 NPS   | 1-1/8" -12 UNF | 2.50             | 63.50 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-16-4C  | 1-3/8" -12 UNF | 9/16" -18 UNF  | 3.50             | 88.90 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-16-6C* | 1-3/8" -12 UNF | 3/4" -16 UNF   | 3.50             | 88.90 | 1.37  | 34.80 | 20,000                   | 1,380 |
| 5Y6Y-16-9C  | 1-3/8" -12 UNF | 1-1/8" -12 UNF | 3.50             | 88.90 | 1.37  | 34.80 | 20,000                   | 1,380 |

\*Non-standard part - may require longer lead time

## L5Y — Medium Pressure Elbow



| Part Number | Thread Size    | Thick-ness | E    |       | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|----------------|------------|------|-------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |                |            | inch | mm    | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |                |            |      |       |      |       |      |       |      |       |                       |       |
| L5Y-4C      | 7/16" -20 UNF  | 0.75       | 1.18 | 29.97 | 1.00 | 25.40 | 0.87 | 22.10 | 0.68 | 17.27 | 20,000                | 1,380 |
| L5Y-6C      | 9/16" -18 UNF  | 0.75       | 1.37 | 34.80 | 1.37 | 34.80 | 1.00 | 25.40 | 1.00 | 25.40 | 20,000                | 1,380 |
| L5Y-9C      | 13/16" -16 UN  | 1.00       | 1.75 | 44.45 | 1.75 | 44.45 | 1.25 | 31.75 | 1.25 | 31.75 | 20,000                | 1,380 |
| L5Y-12C     | 3/4" -14 NPS   | 1.37       | 2.25 | 57.15 | 2.25 | 57.15 | 1.50 | 38.10 | 1.50 | 38.10 | 20,000                | 1,380 |
| L5Y-16C     | 1-3/8" -12 UNF | 1.75       | 3.00 | 76.20 | 3.00 | 76.20 | 2.06 | 52.32 | 2.06 | 52.32 | 20,000                | 1,380 |



**WARNING**

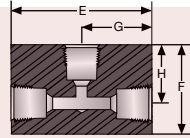
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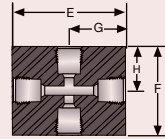
# Medium Pressure Adapters

## T5Y — Medium Pressure Tee



| Part Number | Thread Size   | Thick-ness | E    |        | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|--------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm     | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |        |      |       |      |       |      |       |                       |       |
| T5Y-4C      | 7/16"-20 UNF  | 0.62       | 1.75 | 44.45  | 1.00 | 25.40 | 6.37 | 22.10 | 0.68 | 17.27 | 20,000                | 1,380 |
| T5Y-6C      | 9/16"-18 UNF  | 0.75       | 2.00 | 50.80  | 1.37 | 34.80 | 1.00 | 25.40 | 1.00 | 25.40 | 20,000                | 1,380 |
| T5Y-9C      | 13/16"-16 UN  | 1.00       | 2.50 | 63.50  | 1.75 | 44.45 | 1.25 | 31.75 | 1.25 | 31.75 | 20,000                | 1,380 |
| T5Y-12C     | 3/4"-14 NPS   | 1.37       | 3.00 | 76.20  | 2.25 | 57.15 | 1.50 | 38.10 | 1.50 | 38.10 | 20,000                | 1,380 |
| T5Y-16C     | 1-3/8"-12 UNF | 1.75       | 4.12 | 104.65 | 3.00 | 76.20 | 2.06 | 52.32 | 2.06 | 52.32 | 20,000                | 1,380 |

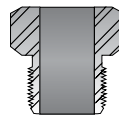
## X5Y — Medium Pressure Cross



| Part Number | Thread Size   | Thick-ness | E    |        | F    |        | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|--------|------|--------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm     | inch | mm     | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |        |      |        |      |       |      |       |                       |       |
| X5Y-4C      | 7/16"-20 UNF  | 0.62       | 1.75 | 44.45  | 1.37 | 34.80  | 0.87 | 22.10 | 0.68 | 17.27 | 20,000                | 1,380 |
| X5Y-6C      | 9/16"-18 UNF  | 0.75       | 2.00 | 50.80  | 2.00 | 50.80  | 1.00 | 25.40 | 1.00 | 25.40 | 20,000                | 1,380 |
| X5Y-9C      | 13/16"-16 UN  | 1.00       | 2.50 | 63.50  | 2.50 | 63.50  | 1.25 | 31.75 | 1.25 | 31.75 | 20,000                | 1,380 |
| X5Y-12C     | 3/4"-14 NPS   | 1.37       | 3.00 | 76.20  | 3.00 | 76.20  | 1.50 | 38.10 | 1.50 | 38.10 | 20,000                | 1,380 |
| X5Y-16C     | 1-3/8"-12 UNF | 1.75       | 4.12 | 104.65 | 4.12 | 104.65 | 2.06 | 52.32 | 2.06 | 52.32 | 20,000                | 1,380 |

## Y2N — Medium Pressure Gland Nut

| Part Number | Thread Size   | Hex Size |       | Maximum Working Pressure |       |
|-------------|---------------|----------|-------|--------------------------|-------|
|             |               | inch     | mm    | psi                      | bar   |
| #           |               |          |       |                          |       |
| Y2N-4C      | 7/16"-20 UNF  | 0.50     | 12.70 | 20,000                   | 1,380 |
| Y2N-6C      | 9/16"-18 UNF  | 0.625    | 15.88 | 20,000                   | 1,380 |
| Y2N-9C      | 13/16"-16 UN  | 0.813    | 20.64 | 20,000                   | 1,380 |
| Y2N-12C     | 3/4"-14 NPS   | 0.75     | 19.05 | 20,000                   | 1,380 |
| Y2N-16C     | 1-3/8"-12 UNF | 1.375    | 34.93 | 20,000                   | 1,380 |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Medium Pressure Adapters

## Y2C Medium Pressure Collar



| Part Number | Thread Size     | Maximum Working Pressure |       |
|-------------|-----------------|--------------------------|-------|
|             |                 | psi                      | bar   |
| #           |                 |                          |       |
| Y2C-4C      | 1/4"-28 UNF LH  | 20,000                   | 1,380 |
| Y2C-6C      | 3/8"-24 UNF LH  | 20,000                   | 1,380 |
| Y2C-9C      | 9/16"-18 UNF LH | 20,000                   | 1,380 |
| Y2C-12C     | 3/4"-16 UNF LH  | 20,000                   | 1,380 |
| Y2C-16C     | 1"-14 UNF LH    | 20,000                   | 1,380 |

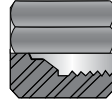
## HBPLM Medium Pressure Plug



| Part Number | Tube Size (O.D.) | Maximum Working Pressure |       |
|-------------|------------------|--------------------------|-------|
|             |                  | psi                      | bar   |
| #           |                  |                          |       |
| HBPLM4-B    | 1/4"             | 20,000                   | 1,380 |
| HBPLM6-B    | 3/8"             | 20,000                   | 1,380 |
| HBPLM9-B    | 9/16"            | 20,000                   | 1,380 |
| HBPLM12-B   | 3/4"             | 20,000                   | 1,380 |
| HBPLM16-B   | 1"               | 20,000                   | 1,380 |

## Medium Pressure Caps

| Part Number | Thread Size   | Overall Length |       | Hex Size |       | Maximum Working Pressure |       |
|-------------|---------------|----------------|-------|----------|-------|--------------------------|-------|
|             |               | inch           | mm    | inch     | mm    | psi                      | bar   |
| #           |               |                |       |          |       |                          |       |
| 5Y4C-CAP    | 7/16"-20 UNF  | 0.95           | 24.13 | 0.625    | 15.88 | 20,000                   | 1,380 |
| 5Y6C-CAP    | 9/16"-18 UNF  | 1.38           | 35.05 | 0.875    | 22.23 | 20,000                   | 1,380 |
| 5Y9C-CAP    | 13/16"-16 UN  | 1.50           | 38.10 | 1.25     | 31.75 | 20,000                   | 1,380 |
| 5Y12C-CAP   | 3/4"-14 NPSM  | 1.85           | 46.99 | 1.375    | 34.93 | 20,000                   | 1,380 |
| 5Y16C-CAP   | 1-3/8"-12 UNF | 2.20           | 55.88 | 1.75     | 44.45 | 20,000                   | 1,380 |



## Y204, Y206, Y209, Y212 and Y216 — Medium Pressure Nipple

| Length | 1/4" O.D.   | 3/8" O.D.  | 9/16" O.D.  | 3/4" O.D.   | 1" O.D.     |
|--------|-------------|------------|-------------|-------------|-------------|
| 2.75"  | Y204-0275C  |            |             |             |             |
| 3"     | Y204-0300C  | Y206-0300C |             |             |             |
| 4"     | Y204-0400C  | Y206-0400C | Y209-0400C  | Y212-0400C  |             |
| 6"     | Y204-0600C  | Y206-0600C | Y209-0600C  | Y212-0600C  | Y216-0600C  |
| 8"     | Y204-0800C  | Y206-0800C | Y209-0800C  | Y212-0800C  | Y216-0800C* |
| 10"    | Y204-1000C* | Y206-1000C | Y209-1000C* | Y212-1000C* | Y216-1000C* |
| 12"    | Y204-1200C  | Y206-1200C | Y209-1200C* | Y212-1200C  | Y216-1200C* |



\*Non-standard part - may require longer lead time



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# High Pressure Adapters



High Pressure is a 58/60 degree coned and threaded tubing design. With small bore sizes, they have a **maximum working pressure rating of 60,000 psi.**

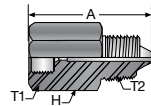
## Advantages:

- An industry standard for use at elevated pressures
- Suitable for repetitive assembly and disassembly

## Thread Sizes - determined by tubing OD:

- 04 1/4" O.D. x 0.08" I.D. — 9/16"-18 male thread on gland nut
- 06 3/8" O.D. x 0.12" I.D. — 3/4"-16 male thread on gland nut
- 09 9/16" O.D. x 0.18" I.D. — 1-1/8"-12 male thread on gland nut

## 6YY6 — Female High Pressure x Male High Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 6YY6-4-6C   | 9/16"-18 UNF   | 3/4"-16 UNF    | 1.75             | 44.45 | 0.75  | 19.05 | 60,000                   | 4,140 |
| 6YY6-4-9C   | 9/16"-18 UNF   | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 60,000                   | 4,140 |
| 6YY6-6-4C   | 3/4"-16 UNF    | 9/16"-18 UNF   | 1.50             | 38.10 | 1.00  | 25.40 | 60,000                   | 4,140 |
| 6YY6-6-9C   | 3/4"-16 UNF    | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 60,000                   | 4,140 |
| 6YY6-9-4C   | 1-1/8"-12 UNF  | 9/16"-18 UNF   | 1.75             | 44.45 | 1.37  | 34.80 | 60,000                   | 4,140 |
| 6YY6-9-6C   | 1-1/8"-12 UNF  | 3/4"-16 UNF    | 1.87             | 47.50 | 1.37  | 34.80 | 60,000                   | 4,140 |
| 6YY6-9-9C   | 1-1/8"-12 UNF  | 1-1/8"-12 UNF  | 2.26             | 57.40 | 1.375 | 34.93 | 60,000                   | 4,140 |

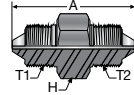


### WARNING

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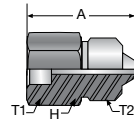
# High Pressure Adapters

## Y6Y6 — Male High Pressure x Male High Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| Y6Y6-4-4C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.68             | 42.67 | 0.62  | 15.75 | 60,000                   | 4,140 |
| Y6Y6-4-6C   | 9/16"-18 UNF   | 3/4"-16 UNF    | 2.06             | 52.32 | 0.75  | 19.05 | 60,000                   | 4,140 |
| Y6Y6-4-9C   | 9/16"-18 UNF   | 1-1/8"-12 UNF  | 2.25             | 57.15 | 1.12  | 28.45 | 60,000                   | 4,140 |
| Y6Y6-6-6C   | 3/4"-16 UNF    | 3/4"-16 UNF    | 2.25             | 57.15 | 0.75  | 19.05 | 60,000                   | 4,140 |
| Y6Y6-6-9C   | 3/4"-16 UNF    | 1-1/8"-12 UNF  | 2.50             | 63.50 | 1.12  | 28.45 | 60,000                   | 4,140 |
| Y6Y6-9-9C   | 1-1/8"-12 UNF  | 1-1/8"-12 UNF  | 2.62             | 66.55 | 1.12  | 28.45 | 60,000                   | 4,140 |

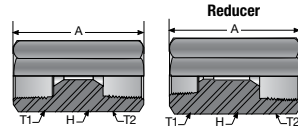
## X6Y6 — Low Angle Face Seal x Male High Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| X6Y6-6-9C*  | 9/16"-18 UNF   | 1-1/8"-12 UNF  | 2.00             | 50.80 | 1.125 | 28.58 | 60,000                   | 4,140 |

\*Non-standard part - may require longer lead time

## 6Y6Y — Female / Female High Pressure, Straight Coupling



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 6Y6Y-4-4C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.75             | 44.45 | 1.00  | 25.40 | 60,000                   | 4,140 |
| 6Y6Y-6-6C   | 3/4"-16 UNF    | 3/4"-16 UNF    | 2.00             | 50.80 | 1.00  | 25.40 | 60,000                   | 4,140 |
| 6Y6Y-9-9C   | 1-1/8"-12 UNF  | 1-1/8"-12 UNF  | 2.37             | 60.20 | 1.37  | 34.80 | 60,000                   | 4,140 |

## Reducer Coupling

|           |              |               | inch | mm    | inch | mm    | psi    | bar   |
|-----------|--------------|---------------|------|-------|------|-------|--------|-------|
| 6Y6Y-4-6C | 9/16"-18 UNF | 3/4"-16 UNF   | 1.62 | 41.15 | 1.00 | 25.40 | 60,000 | 4,140 |
| 6Y6Y-4-9C | 9/16"-18 UNF | 1-1/8"-12 UNF | 1.75 | 44.45 | 1.37 | 34.80 | 60,000 | 4,140 |
| 6Y6Y-6-9C | 3/4"-16 UNF  | 1-1/8"-12 UNF | 2.00 | 50.80 | 1.37 | 34.80 | 60,000 | 4,140 |



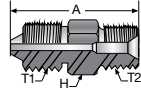
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# High Pressure Adapters

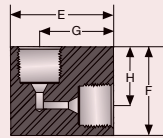
## Y6D9 — Male High Pressure x Male BSP



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |        |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|--------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar    |
| #           |                |                |                  |       |       |       |                          |        |
| Y6D9-4-6C   | 9/16"-18 UNF   | G3/8-19        | 1.57             | 39.88 | 0.875 | 22.23 | 30,000*                  | 2,070* |
| Y6D9-6-6C   | 3/4"-16 UNF    | G3/8-19        | 1.85             | 46.99 | 0.875 | 22.23 | 30,000*                  | 2,070* |

\*BSP connection end lowers working pressure to 30,000psi

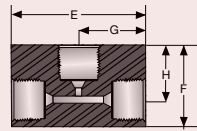
## L6Y — High Pressure Elbow



| Part Number | Thread Size   | Thick-ness | E    |       | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|-------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm    | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |       |      |       |      |       |      |       |                       |       |
| L6Y-4C      | 9/16"-18 UNF  | 1.00       | 1.37 | 34.80 | 1.50 | 38.10 | 0.87 | 22.10 | 1.00 | 25.40 | 60,000                | 4,140 |
| L6Y-6C      | 3/4"-16 UNF   | 1.00       | 1.75 | 44.45 | 1.50 | 38.10 | 1.25 | 31.75 | 1.00 | 25.40 | 60,000                | 4,140 |
| L6Y-9C      | 1-1/8"-12 UNF | 1.50       | 2.62 | 66.55 | 1.87 | 47.50 | 1.12 | 28.45 | 1.12 | 28.45 | 60,000                | 4,140 |

DISCONTINUED

## T6Y — High Pressure Tee



| Part Number | Thread Size   | Thick-ness | E    |       | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|-------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm    | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |       |      |       |      |       |      |       |                       |       |
| T6Y-4C      | 9/16"-18 UNF  | 1.00       | 2.00 | 50.80 | 1.37 | 34.80 | 1.00 | 25.40 | 0.87 | 22.10 | 60,000                | 4,140 |
| T6Y-6C      | 3/4"-16 UNF   | 1.00       | 2.00 | 50.80 | 1.56 | 39.62 | 1.00 | 25.40 | 1.06 | 26.92 | 60,000                | 4,140 |
| T6Y-9C      | 1-1/8"-12 UNF | 1.50       | 2.62 | 66.55 | 2.12 | 53.85 | 1.62 | 41.15 | 1.37 | 34.80 | 60,000                | 4,140 |

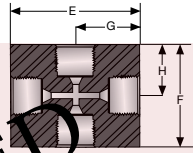


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Hose  
 A  
 Fittings  
 B  
 Adapters & Valves  
 C  
 Quick Couplings  
 D  
 Accessories  
 E  
 General Technical  
 F

# High Pressure Adapters



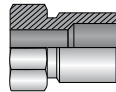
## X6Y — High Pressure Cross

| Part Number | Thread Size   | Thick-ness | E    |       | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|-------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm    | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |       |      |       |      |       |      |       |                       |       |
| X6Y-4C      | 9/16"-18 UNF  | 1.00       | 2.00 | 50.80 | 1.50 | 38.10 | 1.00 | 25.40 | 0.75 | 19.05 | 60,000                | 4,140 |
| X6Y-6C      | 3/4"-16 UNF   | 1.00       | 2.12 | 53.85 | 2.00 | 50.80 | 1.06 | 26.92 | 1.00 | 25.40 | 60,000                | 4,140 |
| X6Y-9C      | 1-1/8"-12 UNF | 1.50       | 2.75 | 69.85 | 2.62 | 66.55 | 1.37 | 34.80 | 1.31 | 33.27 | 60,000                | 4,140 |

DISCONTINUED

## Y4N — High Pressure Gland Nut

| Part Number | Thread Size   | Hex Size |       | Maximum Working Pressure |       |
|-------------|---------------|----------|-------|--------------------------|-------|
|             |               | inch     | mm    | inch                     | mm    |
| #           |               |          |       |                          |       |
| Y4N-4C      | 9/16"-18 UNF  | 0.625    | 15.89 | 60,000                   | 4,140 |
| Y4N-6C      | 3/4"-16 UNF   | 0.813    | 20.64 | 60,000                   | 4,140 |
| Y4N-9C      | 1-1/8"-12 UNF | 1.188    | 30.16 | 60,000                   | 4,140 |

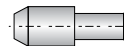


## Y4C High Pressure Collar



| Part Number | Thread Size     | Max. Working Pressure |       |
|-------------|-----------------|-----------------------|-------|
|             |                 | psi                   | bar   |
| #           |                 |                       |       |
| Y4C-4C      | 1/4"-28 UNF LH  | 60,000                | 4,140 |
| Y4C-6C      | 3/8"-24 UNF LH  | 60,000                | 4,140 |
| Y4C-9C      | 9/16"-18 UNF LH | 60,000                | 4,140 |

## HBPHM High Pressure Plug



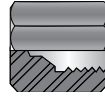
| Part Number | Tube Size (O.D.) | Max. Working Pressure |       |
|-------------|------------------|-----------------------|-------|
| #           |                  | psi                   | bar   |
| HBPHM4-B    | 1/4"             | 60,000                | 4,140 |
| HBPHM6-B    | 3/8"             | 60,000                | 4,140 |
| HBPHM9-B    | 9/16"            | 60,000                | 4,140 |



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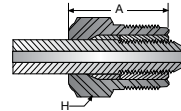
# High Pressure Adapters



## High Pressure Caps

| Part Number | Thread Size | Overall Length |       | Hex Size |       | Maximum Working Pressure |       |
|-------------|-------------|----------------|-------|----------|-------|--------------------------|-------|
|             |             | inch           | mm    | inch     | mm    | inch                     | mm    |
| #           |             |                |       |          |       |                          |       |
| 6Y4C-CAP    | 1/4" HP     | 1.07           | 27.18 | 0.875    | 22.23 | 60,000                   | 4,140 |
| 6Y6C-CAP    | 3/8" HP     | 1.26           | 32.00 | 1.000    | 25.40 | 60,000                   | 4,140 |
| 6Y9C-CAP    | 9/16" HP    | 1.50           | 38.10 | 1.375    | 34.93 | 60,000                   | 4,140 |

## Locking Nut/Collar Anti-Vibration



| Part Number       | Tube Size (O.D.) | Thread Size   | A Length |       | H Hex |       |
|-------------------|------------------|---------------|----------|-------|-------|-------|
|                   |                  |               | inch     | mm    | inch  | mm    |
| #                 |                  |               |          |       |       |       |
| KCGL40-316-ACL40* | 1/4" HP          | 9/16"-18 UNF  | 0.68     | 17.27 | 0.63  | 16.00 |
| KCGL60-316-ACL60  | 3/8" HP          | 3/4"-16 UNF   | 1.06     | 26.92 | 0.68  | 17.27 |
| KCGL90-316-ACL90  | 9/16" HP         | 1-1/8"-12 UNF | 1.56     | 39.62 | 1.68  | 42.67 |

\*Non-standard part - may require longer lead time

## Y404, Y406 and Y409 High Pressure Nipple



| Length | 1/4" O.D.   | 3/8" O.D.  | 9/16" O.D.  |
|--------|-------------|------------|-------------|
| 2.75"  | Y404-0275C  |            |             |
| 3"     | Y404-0300C  | Y406-0300C |             |
| 4"     | Y404-0400C  | Y406-0400C | Y409-0400C  |
| 6"     | Y404-0600C  | Y406-0600C | Y409-0600C  |
| 8"     | Y404-0800C  | Y406-0800C | Y409-0800C  |
| 10"    | Y404-1000C* | Y406-1000C | Y409-1000C* |
| 12"    | Y404-1200C  | Y406-1200C | Y409-1200C* |

\*Non-standard part - may require longer lead time



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# NPT Adapters



**polyflex** offers a broad range of high quality stainless steel high pressure NPT adapters. Sizes ranging from 1/16" to 1/2" are rated up to **15,000 psi**; 3/4" and above are rated to **10,000 psi**.

## Advantages:

- Used world-wide in OEM and MRO applications
- Compact size make NPT a suitable selection for plumbing in limited or tight space in a compact system

## Thread Sizes:

|     |             |
|-----|-------------|
| -01 | 1/16"-27    |
| -02 | 1/8"-27     |
| -04 | 1/4"-18     |
| -06 | 3/8"-18     |
| -08 | 1/2"-14     |
| -12 | 3/4"-16 UNF |
| -16 | 1"-11-1/2   |



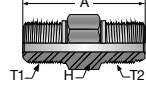
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# NPT Adapters

## K0101— Male NPT x Male NPT



| Part Number    | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|----------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|                |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #              |                |                |                  |       |       |       |                          |       |
| 10K0101-12-12C | 3/4"-14 NPT    | 3/4"-14 NPT    | 2.44             | 61.98 | 1.13  | 28.70 | 10,000                   | 690   |
| 10K0101-16-16C | 1"-11-1/2 NPT  | 1"-11-1/2 NPT  | 2.75             | 69.85 | 1.38  | 35.05 | 10,000                   | 690   |
| 15K0101-1-1C   | 1/16"-27 NPT   | 1/16"-27 NPT   | 1.00             | 25.40 | 0.38  | 9.65  | 15,000                   | 1,030 |
| 15K0101-2-2C   | 1/8"-27 NPT    | 1/8"-27 NPT    | 1.20             | 30.48 | 0.50  | 12.70 | 15,000                   | 1,030 |
| 15K0101-4-4C   | 1/4"-18 NPT    | 1/4"-18 NPT    | 1.44             | 36.58 | 0.63  | 16.00 | 15,000                   | 1,030 |
| 15K0101-6-6C   | 3/8"-18 NPT    | 3/8"-18 NPT    | 1.70             | 43.18 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 15K0101-8-8C   | 1/2"-14 NPT    | 1/2"-14 NPT    | 2.25             | 57.15 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 15K0101-2-1C   | 1/8"-27 NPT    | 1/16"-27 NPT   | 1.13             | 28.70 | 0.50  | 12.70 | 15,000                   | 1,030 |
| 15K0101-2-4C   | 1/8"-27 NPT    | 1/4"-18 NPT    | 1.35             | 34.29 | 0.625 | 15.88 | 15,000                   | 1,030 |
| 15K0101-6-8C   | 3/8"-18 NPT    | 1/2"-14 NPT    | 1.85             | 46.99 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 15K0101-12-6C  | 3/4"-14 NPT    | 3/8"-18 NPT    | 1.95             | 49.53 | 1.125 | 28.58 | 10,000                   | 690   |
| 15K0101-16-6C  | 1"-11-1/2 NPT  | 3/8"-18 NPT    | 2.16             | 54.86 | 1.375 | 34.93 | 10,000                   | 690   |
| 10K0101-12-4C  | 3/4"-14 NPT    | 1/4"-18 NPT    | 2.03             | 51.56 | 1.125 | 28.58 | 10,000                   | 690   |
| 10K0101-16-4C  | 1"-11-1/2 NPT  | 1/4"-18 NPT    | 2.16             | 54.86 | 1.375 | 34.93 | 10,000                   | 690   |
| 10K0101-16-12C | 1"-11-1/2 NPT  | 3/4"-14 NPT    | 2.56             | 65.02 | 1.375 | 34.93 | 10,000                   | 690   |

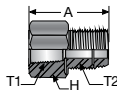


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A Hose  
 B Fittings  
 C Adapters & Valves  
 D Quick Couplings  
 E Accessories  
 F General Technical

# NPT Adapters



## K0201— Female NPT x Male NPT

| Part Number<br># | T1<br>Thread Size | T2<br>Thread Size | A<br>Overall Length |       | H<br>Hex |       | Maximum Working Pressure |       |
|------------------|-------------------|-------------------|---------------------|-------|----------|-------|--------------------------|-------|
|                  |                   |                   | inch                | mm    | inch     | mm    | psi                      | bar   |
| 15K0201-1-8C     | 1/16"-27 NPT      | 1/2"-14 NPT       | 1.25                | 31.75 | 0.87     | 22.10 | 15,000                   | 1,030 |
| 15K0201-2-8C     | 1/8"-27 NPT       | 1/2"-14 NPT       | 1.25                | 31.75 | 0.87     | 22.10 | 15,000                   | 1,030 |
| 15K0201-4-8C     | 1/4"-18 NPT       | 1/2"-14 NPT       | 1.25                | 31.75 | 0.87     | 22.10 | 15,000                   | 1,030 |
| 15K0201-6-8C     | 3/8"-18 NPT       | 1/2"-14 NPT       | 1.63                | 41.40 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 15K0201-1-4C     | 1/16"-27 NPT      | 1/4"-18 NPT       | 1.30                | 33.02 | 0.625    | 15.88 | 15,000                   | 1,030 |
| 15K0201-2-1C     | 1/8"-27 NPT       | 1/16"-27 NPT      | 1.38                | 35.05 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 15K0201-4-1C     | 1/4"-18 NPT       | 1/16"-27 NPT      | 1.56                | 39.62 | 0.875    | 22.23 | 15,000                   | 1,030 |
| 15K0201-4-6C     | 1/4"-18 NPT       | 3/8"-18 NPT       | 1.50                | 38.10 | 0.87     | 22.10 | 15,000                   | 1,030 |
| 15K0201-6-2C     | 3/8"-18 NPT       | 1/8"-27 NPT       | 1.58                | 40.13 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 15K0201-6-6C     | 3/8"-18 NPT       | 3/8"-18 NPT       | 1.78                | 45.21 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 15K0201-8-8C     | 1/2"-14 NP        | 1/2"-14 NPT       | 2.13                | 54.10 | 1.25     | 31.75 | 15,000                   | 1,030 |
| 10K0201-4-12C    | 1/4"-18 NPT       | 3/4"-14 NPT       | 1.63                | 41.40 | 1.125    | 28.58 | 10,000                   | 690   |
| 10K0201-6-12C    | 3/8"-18 NPT       | 3/4"-14 NPT       | 1.60                | 40.64 | 1.125    | 28.58 | 10,000                   | 690   |
| 10K0201-6-16C    | 3/8"-18 NPT       | 1"-11-1/2 NPT     | 1.90                | 48.26 | 1.375    | 34.93 | 10,000                   | 690   |
| 10K0201-12-6C    | 3/4"-14 NPT       | 3/8"-18 NPT       | 2.25                | 57.15 | 1.50     | 38.10 | 10,000                   | 690   |
| 10K0201-12-12C   | 3/4"-14 NPT       | 3/4"-14 NPT       | 2.25                | 57.15 | 1.50     | 38.10 | 10,000                   | 690   |
| 10K0201-12-16C   | 3/4"-14 NPT       | 1"-11-1/2 NPT     | 2.25                | 57.15 | 1.50     | 38.10 | 10,000                   | 690   |
| 10K0201-16-6C    | 1"-11-1/2 NPT     | 3/8"-18 NPT       | 2.35                | 59.69 | 2.00     | 50.80 | 10,000                   | 690   |
| 10K0201-16-8C    | 1"-11-1/2 NPT     | 1/2"-14 NPT       | 2.50                | 63.50 | 2.00     | 50.80 | 10,000                   | 690   |



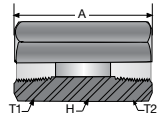
### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

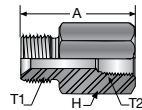
# NPT Adapters

## K0202— Female NPT x Female NPT



| Part Number<br># | T1<br>Thread Size | T2<br>Thread Size | A<br>Overall Length |       | H<br>Hex |       | Maximum<br>Working Pressure |       |
|------------------|-------------------|-------------------|---------------------|-------|----------|-------|-----------------------------|-------|
|                  |                   |                   | inch                | mm    | inch     | mm    | psi                         | bar   |
| 15K0202-2-2C     | 1/8" -27 NPT      | 1/8" -27 NPT      | 1.50                | 38.10 | 0.75     | 19.05 | 15,000                      | 1,030 |
| 15K0202-4-1C     | 1/4" -18 NPT      | 1/16" -27 NPT     | 1.63                | 41.40 | 0.875    | 22.23 | 15,000                      | 1,030 |
| 15K0202-4-4C     | 1/4" -18 NPT      | 1/4" -18 NPT      | 1.75                | 44.45 | 0.87     | 22.10 | 15,000                      | 1,030 |
| 15K0202-6-2C     | 3/8" -18 NPT      | 1/8" -27 NPT      | 1.75                | 44.45 | 1.00     | 25.40 | 15,000                      | 1,030 |
| 15K0202-6-6C     | 3/8" -18 NPT      | 3/8" -18 NPT      | 1.75                | 44.45 | 1.00     | 25.40 | 15,000                      | 1,030 |
| 15K0202-8-1C     | 1/2" -14 NPT      | 1/16" -27 NPT     | 1.75                | 44.45 | 1.25     | 31.75 | 15,000                      | 1,030 |
| 15K0202-8-2C     | 1/2" -14 NPT      | 1/8" -27 NPT      | 1.75                | 44.45 | 1.25     | 31.75 | 15,000                      | 1,030 |
| 15K0202-8-6C     | 1/2" -14 NPT      | 3/8" -18 NPT      | 1.75                | 44.45 | 1.25     | 31.75 | 15,000                      | 1,030 |
| 15K0202-8-8C     | 1/2" -14 NPT      | 1/2" -14 NPT      | 2.13                | 54.10 | 1.25     | 31.75 | 15,000                      | 1,030 |
| 10K0202-12-4C    | 3/4" -14 NPT      | 1/4" -18 NPT      | 2.00                | 50.80 | 1.50     | 38.10 | 10,000                      | 690   |
| 10K0202-12-6C    | 3/4" -14 NPT      | 3/8" -18 NPT      | 2.00                | 50.80 | 1.50     | 38.10 | 10,000                      | 690   |
| 10K0202-12-12C   | 3/4" -14 NPT      | 3/4" -14 NPT      | 2.13                | 54.10 | 1.50     | 38.10 | 10,000                      | 690   |
| 10K0202-12-16C   | 3/4" -14 NPT      | 1" -11-1/2 NPT    | 2.38                | 60.45 | 2.00     | 50.80 | 10,000                      | 690   |
| 10K0202-16-16C   | 1" -11-1/2 NPT    | 1" -11-1/2 NPT    | 2.50                | 63.50 | 2.00     | 50.80 | 10,000                      | 690   |

## YA02 — Male Type "M" x Female NPT



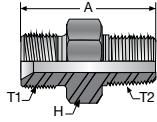
| Part Number<br># | T1<br>Thread Size | T2<br>Thread Size | A<br>Overall Length |       | H<br>Hex |       | Maximum Working<br>Pressure |       |
|------------------|-------------------|-------------------|---------------------|-------|----------|-------|-----------------------------|-------|
|                  |                   |                   | inch                | mm    | inch     | mm    | psi                         | bar   |
| YA02-6-4C        | 9/16" -18 UNF     | 1/4" -18 NPT      | 1.50                | 38.10 | 0.75     | 19.05 | 15,000                      | 1,030 |
| YA02-6-8C        | 9/16" -18 UNF     | 1/2" -14 NPT      | 2.00                | 50.80 | 1.25     | 31.75 | 15,000                      | 1,030 |
| YA02-6-16C       | 9/16" -18 UNF     | 1" -11-1/2 NPT    | 2.38                | 60.45 | 2.00     | 50.80 | 10,000                      | 690   |
| YA02-8-4C        | 3/4" -16 UNF      | 1/4" -18 NPT      | 1.63                | 41.40 | 0.875    | 22.23 | 15,000                      | 1,030 |
| YA02-8-6C        | 3/4" -16 UNF      | 3/8" -18 NPT      | 1.75                | 44.45 | 1.00     | 25.40 | 15,000                      | 1,030 |
| YA02-8-8C        | 3/4" -16 UNF      | 1/2" -14 NPT      | 2.00                | 50.80 | 1.25     | 31.75 | 15,000                      | 1,030 |
| YA02-8-12C       | 3/4" -16 UNF      | 3/4" -14 NPT      | 2.13                | 54.10 | 1.50     | 38.10 | 10,000                      | 690   |
| YA02-11-8C       | 1" -12 UNF        | 1/2" -14 NPT      | 2.50                | 63.50 | 1.00     | 25.40 | 15,000                      | 1,030 |
| YA02-11-12C      | 1" -12 UNF        | 3/4" -14 NPT      | 2.13                | 54.10 | 1.50     | 38.10 | 10,000                      | 690   |
| YA02-16-16C      | 1-5/16" -12 UNF   | 1" -11-1/2 NPT    | 2.38                | 60.45 | 2.00     | 50.80 | 10,000                      | 690   |



### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# NPT Adapters



## YA01 — Male Type “M” x Male NPT

| Part Number | T1 Thread Size | T2 Thread Size    | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|-------------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                   | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                   |                  |       |       |       |                          |       |
| YA01-6-2C   | 9/16"-18 UNF   | 1/8"-27 NPT       | 1.28             | 32.51 | 0.63  | 16.00 | 15,000                   | 1,030 |
| YA01-6-4C   | 9/16"-18 UNF   | 1/4"-18 NPT       | 1.38             | 35.05 | 0.63  | 16.00 | 15,000                   | 1,030 |
| YA01-6-6C   | 9/16"-18 UNF   | 3/8"-18 NPT       | 1.57             | 39.88 | 0.75  | 19.05 | 15,000                   | 1,030 |
| YA01-6-8C   | 9/16"-18 UNF   | 1/2"-14 NPT       | 1.75             | 44.45 | 0.88  | 22.35 | 15,000                   | 1,030 |
| YA01-6-12C  | 9/16"-18 UNF   | 3/4"-14 NPT       | 1.95             | 49.53 | 1.13  | 28.58 | 10,000                   | 690   |
| YA01-6-16C  | 9/16"-18 UNF   | 1"-11-1/2 NPT     | 2.26             | 57.40 | 1.38  | 34.93 | 10,000                   | 690   |
| YA01-8-4C   | 3/4"-16 UNF    | 1/4"-18 NPT       | 1.8              | 45.72 | 0.75  | 19.05 | 15,000                   | 1,030 |
| YA01-8-6C   | 3/4"-16 UNF    | 3/8"-18 NPT       | 1.73             | 43.94 | 0.75  | 19.05 | 15,000                   | 1,030 |
| YA01-8-8C   | 3/4"-16 UNF    | 1/2"-14 NPT       | 1.95             | 49.53 | 0.88  | 22.35 | 15,000                   | 1,030 |
| YA01-8-12C  | 3/4"-16 UNF    | 3/4"-14 NPT       | 2.13             | 54.10 | 1.13  | 28.70 | 10,000                   | 690   |
| YA01-8-16C  | 3/4"-16 UNF    | 1"-11-1/2 NPT     | 2.38             | 60.45 | 1.38  | 35.05 | 10,000                   | 690   |
| YA01-11-6C  | 1"-12 UNF      | 3/8"-18 NPT       | 1.85             | 46.99 | 1.00  | 25.40 | 15,000                   | 1,030 |
| YA01-11-8C  | 1"-12 UNF      | 1/2"-14 NPT       | 2.00             | 50.80 | 1.00  | 25.40 | 15,000                   | 1,030 |
| YA01-11-12C | 1"-12 UNF      | 3/4"-14 NPT       | 2.13             | 54.10 | 1.13  | 28.70 | 10,000                   | 690   |
| YA01-11-16C | 1"-12 UNF      | 1"-11-1/2 NPT     | 2.38             | 60.45 | 1.38  | 35.05 | 10,000                   | 690   |
| YA01-16-8C  | 1-5/16"-12 UN  | 1/2"-14 NPT       | 2.13             | 54.10 | 1.38  | 35.05 | 15,000                   | 1,030 |
| YA01-16-12C | 1-5/16"-12 UN  | 3/4"-14 NPT       | 2.38             | 60.45 | 1.38  | 35.05 | 10,000                   | 690   |
| YA01-16-16C | 1-5/16"-12 UN  | 1"-11-1/2 NPT     | 2.5              | 63.50 | 1.38  | 35.05 | 10,000                   | 690   |
| YA01-16-20C | 1-5/16"-12 UN  | 1-1/4"-11-1/2 NPT | 2.75             | 69.85 | 1.75  | 44.45 | 10,000                   | 690   |
| YA01-16-24C | 1-5/16"-12 UN  | 1-1/2"-11-1/2 NPT | 2.75             | 69.85 | 2.00  | 50.80 | 7,500                    | 520   |
| YA01-16-32C | 1-5/16"-12 UN  | 2"-11-1/2 NPT     | 2.75             | 69.85 | 2.38  | 60.45 | 7,500                    | 520   |

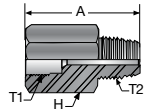


### WARNING

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# NPT Adapters

## 5Y01 — Female Medium Pressure x Male NPT



| Part Number<br># | T1<br>Thread Size | T2<br>Thread Size | A<br>Overall Length |       | H<br>Hex |       | Maximum Working Pressure |       |
|------------------|-------------------|-------------------|---------------------|-------|----------|-------|--------------------------|-------|
|                  |                   |                   | inch                | mm    | inch     | mm    | psi                      | bar   |
| 5Y01-4-2C        | 7/16"-20 UNF      | 1/8"-27 NPT       | 1.43                | 36.32 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y01-4-4C        | 7/16"-20 UNF      | 1/4"-18 NPT       | 1.62                | 41.15 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y01-4-6C        | 7/16"-20 UNF      | 3/8"-18 NPT       | 1.62                | 41.15 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y01-4-8C        | 7/16"-20 UNF      | 1/2"-14 NPT       | 1.75                | 44.45 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y01-4-12C       | 7/16"-20 UNF      | 3/4"-14 NPT       | 1.87                | 47.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-4-16C*      | 7/16"-20 UNF      | 1"-11-1/2 NPT     | 1.87                | 47.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-6-2C*       | 9/16"-18 UNF      | 1/8"-27 NPT       | 1.43                | 36.32 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y01-6-4C        | 9/16"-18 UNF      | 1/4"-18 NPT       | 1.62                | 41.15 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y01-6-6C        | 9/16"-18 UNF      | 3/8"-18 NPT       | 1.62                | 41.15 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y01-6-8C        | 9/16"-18 UNF      | 1/2"-14 NPT       | 1.74                | 44.20 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y01-6-12C       | 9/16"-18 UNF      | 3/4"-14 NPT       | 1.87                | 47.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-6-16C       | 9/16"-18 UNF      | 1"-11-1/2 NPT     | 1.87                | 47.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-9-2C*       | 13/16"-16 UN      | 1/8"-27 NPT       | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y01-9-4C        | 13/16"-16 UN      | 1/4"-18 NPT       | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y01-9-6C        | 13/16"-16 UN      | 3/8"-18 NPT       | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y01-9-8C        | 13/16"-16 UN      | 1/2"-14 NPT       | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y01-9-12C       | 13/16"-16 UN      | 3/4"-14 NPT       | 1.87                | 47.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-9-16C       | 13/16"-16 UN      | 1"-11-1/2 NPT     | 1.87                | 47.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-12-2C*      | 3/4"-14 NPS       | 1/8"-27 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y01-12-4C       | 3/4"-14 NPS       | 1/4"-18 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y01-12-6C*      | 3/4"-14 NPS       | 3/8"-18 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y01-12-8C       | 3/4"-14 NPS       | 1/2"-14 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y01-12-12C      | 3/4"-14 NPS       | 3/4"-14 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-12-16C      | 3/4"-14 NPS       | 1"-11-1/2 NPT     | 2.50                | 63.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y01-16-2C*      | 1-3/8"-12 UNF     | 1/8"-27 NPT       | 2.50                | 63.50 | 1.75     | 34.80 | 15,000                   | 1,030 |
| 5Y01-16-4C       | 1-3/8"-12 UNF     | 1/4"-18 NPT       | 2.50                | 63.50 | 1.75     | 34.80 | 15,000                   | 1,030 |
| 5Y01-16-6C*      | 1-3/8"-12 UNF     | 3/8"-18 NPT       | 2.50                | 63.50 | 1.75     | 34.80 | 15,000                   | 1,030 |
| 5Y01-16-8C       | 1-3/8"-12 UNF     | 1/2"-14 NPT       | 2.50                | 63.50 | 1.75     | 34.80 | 15,000                   | 1,030 |
| 5Y01-16-12C      | 1-3/8"-12 UNF     | 3/4"-14 NPT       | 2.50                | 63.50 | 1.75     | 34.80 | 10,000                   | 690   |
| 5Y01-16-16C      | 1-3/8"-12 UNF     | 1"-11-1/2 NPT     | 2.50                | 63.50 | 1.75     | 34.80 | 10,000                   | 690   |

\*Non-standard part - may require longer lead time



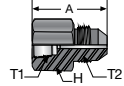
### WARNING

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# NPT Adapters

## 02Y5 — Female NPT x Male Medium Pressure



| Part Number<br># | T1<br>Thread Size | T2<br>Thread Size | A<br>Overall Length |        | H<br>Hex |       | Maximum Working Pressure |       |
|------------------|-------------------|-------------------|---------------------|--------|----------|-------|--------------------------|-------|
|                  |                   |                   | inch                | mm     | inch     | mm    | psi                      | bar   |
| 02Y5-1-9C        | 1/16"-27 NPT      | 13/16"-16 UN      | 2.00                | 50.80  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-2-4C        | 1/8"-27 NPT       | 7/16"-20 UNF      | 1.75                | 44.45  | 0.75     | 19.05 | 15,000                   | 1,030 |
| 02Y5-2-6C        | 1/8"-27 NPT       | 9/16"-18 UNF      | 1.87                | 47.50  | 0.75     | 19.05 | 15,000                   | 1,030 |
| 02Y5-2-9C        | 1/8"-27 NPT       | 13/16"-16 UN      | 1.87                | 47.50  | 0.87     | 22.10 | 15,000                   | 1,030 |
| 02Y5-2-12C       | 1/8"-27 NPT       | 3/4"-14 NPSM      | 2.00                | 50.80  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-2-16C*      | 1/8"-27 NPT       | 1"-14 UNF LH      | 3.00                | 76.20  | 1.00     | 25.40 | 15,000                   | 1,030 |
| 02Y5-4-4C        | 1/4"-18 NPT       | 7/16"-20 UNF      | 1.75                | 44.45  | 0.75     | 19.05 | 15,000                   | 1,030 |
| 02Y5-4-6C        | 1/4"-18 NPT       | 9/16"-18 UNF      | 1.87                | 47.50  | 0.75     | 19.05 | 15,000                   | 1,030 |
| 02Y5-4-9C        | 1/4"-18 NPT       | 13/16"-16 UN      | 1.87                | 47.50  | 0.87     | 22.10 | 15,000                   | 1,030 |
| 02Y5-4-12C       | 1/4"-18 NPT       | 3/4"-14 NPSM      | 2.00                | 50.80  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-4-16C       | 1/4"-18 NPT       | 1"-14 UNF LH      | 3.00                | 76.20  | 1.00     | 25.40 | 15,000                   | 1,030 |
| 02Y5-6-4C        | 3/8"-18 NPT       | 7/16"-20 UNF      | 2.00                | 50.80  | 1.00     | 25.40 | 15,000                   | 1,030 |
| 02Y5-6-6C        | 3/8"-18 NPT       | 9/16"-18 UNF      | 2.12                | 53.85  | 1.00     | 25.40 | 15,000                   | 1,030 |
| 02Y5-6-9C        | 3/8"-18 NPT       | 13/16"-16 UN      | 2.25                | 57.15  | 1.00     | 25.40 | 15,000                   | 1,030 |
| 02Y5-6-12C       | 3/8"-18 NPT       | 3/4"-14 NPSM      | 2.00                | 50.80  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-6-16C       | 3/8"-18 NPT       | 1"-14 UNF LH      | 3.00                | 76.20  | 1.00     | 25.40 | 15,000                   | 1,030 |
| 02Y5-8-4C        | 1/2"-14 NPT       | 7/16"-20 UNF      | 2.12                | 53.85  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-8-6C        | 1/2"-14 NPT       | 9/16"-18 UNF      | 1.25                | 31.75  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-8-9C        | 1/2"-14 NPT       | 13/16"-16 UN      | 2.37                | 60.20  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-8-12C       | 1/2"-14 NPT       | 3/4"-14 NPSM      | 2.50                | 63.50  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-8-16C       | 1/2"-14 NPT       | 1"-14 UNF LH      | 3.75                | 95.25  | 1.12     | 28.45 | 15,000                   | 1,030 |
| 02Y5-12-4C*      | 3/4"-14 NPT       | 7/16"-20 UNF      | 2.37                | 60.20  | 1.37     | 34.80 | 10,000                   | 690   |
| 02Y5-12-6C       | 3/4"-14 NPT       | 9/16"-18 UNF      | 2.50                | 63.50  | 1.37     | 34.80 | 10,000                   | 690   |
| 02Y5-12-9C       | 3/4"-14 NPT       | 13/16"-16 UN      | 2.62                | 66.55  | 1.37     | 34.80 | 10,000                   | 690   |
| 02Y5-12-12C      | 3/4"-14 NPT       | 3/4"-14 NPSM      | 2.75                | 69.85  | 1.50     | 38.10 | 10,000                   | 690   |
| 02Y5-12-16C      | 3/4"-14 NPT       | 1"-14 UNF LH      | 4.12                | 104.65 | 1.50     | 38.10 | 10,000                   | 690   |
| 02Y5-16-6C       | 1-3/8"-12 UNF     | 9/16"-18 UNF      | 2.87                | 72.90  | 1.87     | 47.50 | 10,000                   | 690   |
| 02Y5-16-9C       | 1-3/8"-12 UNF     | 13/16"-16 UN      | 3.00                | 76.20  | 1.87     | 47.50 | 10,000                   | 690   |
| 02Y5-16-12C      | 1-3/8"-12 UNF     | 3/4"-14 NPSM      | 3.00                | 76.20  | 1.87     | 47.50 | 10,000                   | 690   |
| 02Y5-16-16C      | 1-3/8"-12 UNF     | 1"-14 UNF LH      | 4.37                | 111.00 | 1.87     | 47.50 | 10,000                   | 690   |

\*Non-standard part - may require longer lead time



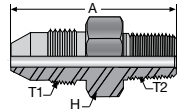
**WARNING**

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# NPT Adapters

## Y501 — Male Medium Pressure x Male NPT



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |        | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|--------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm     | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |        |       |       |                          |       |
| Y501-4-4C   | 7/16"-20 UNF   | 1/4"-18 NPT    | 1.60             | 40.64  | 0.63  | 16.00 | 15,000                   | 1,030 |
| Y501-4-8C   | 7/16"-20 UNF   | 1/2"-14 NPT    | 2.12             | 53.85  | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y501-6-4C   | 9/16"-18 UNF   | 1/4"-18 NPT    | 2.06             | 52.32  | 0.75  | 19.05 | 15,000                   | 1,030 |
| Y501-6-6C   | 9/16"-18 UNF   | 3/8"-18 NPT    | 2.06             | 52.32  | 0.75  | 19.05 | 15,000                   | 1,030 |
| Y501-6-8C   | 9/16"-18 UNF   | 1/2"-14 NPT    | 2.18             | 55.37  | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y501-9-2C*  | 13/16"-16 UN   | 1/8"-27 NPT    | 2.12             | 53.85  | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y501-9-4C   | 13/16"-16 UN   | 1/4"-18 NPT    | 2.25             | 57.15  | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y501-9-6C   | 13/16"-16 UN   | 3/8"-18 NPT    | 2.25             | 57.15  | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y501-9-8C   | 13/16"-16 UN   | 1/2"-14 NPT    | 2.37             | 60.20  | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y501-9-12C  | 13/16"-16 UN   | 3/4"-14 NPT    | 2.62             | 66.55  | 1.12  | 28.45 | 10,000                   | 690   |
| Y501-9-16C  | 13/16"-16 UN   | 1"-11-1/2 NPT  | 2.62             | 66.55  | 1.37  | 34.80 | 10,000                   | 690   |
| Y501-12-2C* | 3/4"-14 NPS    | 1/8"-27 NPT    | 2.37             | 60.20  | 1.12  | 28.45 | 15,000                   | 1,030 |
| Y501-12-4C* | 3/4"-14 NPS    | 1/4"-18 NPT    | 2.50             | 63.50  | 1.12  | 28.45 | 15,000                   | 1,030 |
| Y501-12-6C* | 3/4"-14 NPS    | 3/8"-18 NPT    | 2.50             | 63.50  | 1.12  | 28.45 | 15,000                   | 1,030 |
| Y501-12-8C  | 3/4"-14 NPS    | 1/2"-14 NPT    | 2.62             | 66.55  | 1.12  | 28.45 | 15,000                   | 1,030 |
| Y501-12-12C | 3/4"-14 NPS    | 3/4"-14 NPT    | 2.75             | 69.85  | 1.12  | 28.45 | 10,000                   | 690   |
| Y501-12-16C | 3/4"-14 NPS    | 1"-11-1/2 NPT  | 3.00             | 76.20  | 1.37  | 34.80 | 10,000                   | 690   |
| Y501-16-2C* | 1-3/8"-12 UNF  | 1/8"-27 NPT    | 3.62             | 91.95  | 1.00  | 25.40 | 15,000                   | 1,030 |
| Y501-16-4C  | 1-3/8"-12 UNF  | 1/4"-18 NPT    | 3.75             | 95.25v | 1.00  | 25.40 | 15,000                   | 1,030 |
| Y501-16-6C  | 1-3/8"-12 UNF  | 3/8"-18 NPT    | 3.75             | 95.25  | 1.00  | 25.40 | 15,000                   | 1,030 |
| Y501-16-8C  | 1-3/8"-12 UNF  | 1/2"-14 NPT    | 3.87             | 98.30  | 1.00  | 25.40 | 15,000                   | 1,030 |
| Y501-16-12C | 1-3/8"-12 UNF  | 3/4"-14 NPT    | 3.87             | 98.30  | 1.12  | 28.45 | 10,000                   | 690   |
| Y501-16-16C | 1-3/8"-12 UNF  | 1"-11-1/2 NPT  | 4.00             | 101.60 | 1.37  | 34.80 | 10,000                   | 690   |

\*Non-standard part - may require longer lead time

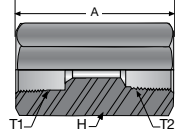


### WARNING

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# NPT Adapters

## 5Y02 — Female Medium Pressure x Female NPT Coupling



| Part Number<br># | T1<br>Thread Size | T2<br>Thread Size | A<br>Overall Length |       | H<br>Hex |       | Maximum Working Pressure |       |
|------------------|-------------------|-------------------|---------------------|-------|----------|-------|--------------------------|-------|
|                  |                   |                   | inch                | mm    | inch     | mm    | psi                      | bar   |
| 5Y02-4-2C        | 7/16"-20 UNF      | 1/8"-27 NPT       | 1.62                | 41.15 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y02-4-4C        | 7/16"-20 UNF      | 1/4"-18 NPT       | 1.62                | 41.15 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y02-4-6C        | 7/16"-20 UNF      | 3/8"-18 NPT       | 2.00                | 50.80 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y02-4-8C        | 7/16"-20 UNF      | 1/2"-14 NPT       | 2.00                | 50.80 | 1.12     | 28.45 | 15,000                   | 1,030 |
| 5Y02-4-12C*      | 7/16"-20 UNF      | 3/4"-14 NPT       | 2.37                | 60.20 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y02-4-16C*      | 7/16"-20 UNF      | 1"-11-1/2 NPT     | 2.62                | 66.55 | 2.00     | 50.80 | 10,000                   | 690   |
| 5Y02-6-2C        | 9/16"-18 UNF      | 1/8"-27 NPT       | 1.75                | 44.45 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y02-6-4C        | 9/16"-18 UNF      | 1/4"-18 NPT       | 1.75                | 44.45 | 0.75     | 19.05 | 15,000                   | 1,030 |
| 5Y02-6-6C        | 9/16"-18 UNF      | 3/8"-18 NPT       | 2.12                | 53.85 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y02-6-8C        | 9/16"-18 UNF      | 1/2"-14 NPT       | 2.12                | 53.85 | 1.12     | 28.45 | 15,000                   | 1,030 |
| 5Y02-6-12C       | 9/16"-18 UNF      | 3/4"-14 NPT       | 2.37                | 60.20 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y02-6-16C*      | 9/16"-18 UNF      | 1"-11-1/2 NPT     | 2.75                | 69.85 | 2.00     | 50.80 | 10,000                   | 690   |
| 5Y02-9-2C*       | 13/16"-16 UN      | 1/8"-27 NPT       | 2.12                | 53.85 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y02-9-4C        | 13/16"-16 UN      | 1/4"-18 NPT       | 2.12                | 53.85 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y02-9-6C        | 13/16"-16 UN      | 3/8"-18 NPT       | 2.12                | 53.85 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 5Y02-9-8C        | 13/16"-16 UN      | 1/2"-14 NPT       | 2.25                | 57.15 | 1.12     | 28.45 | 15,000                   | 1,030 |
| 5Y02-9-12C       | 13/16"-16 UN      | 3/4"-14 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 10,000                   | 690   |
| 5Y02-9-16C*      | 13/16"-16 UN      | 1"-11-1/2 NPT     | 2.87                | 72.90 | 2.00     | 50.80 | 10,000                   | 690   |
| 5Y02-12-2C*      | 3/4"-14 NPS       | 1/8"-27 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y02-12-4C*      | 3/4"-14 NPS       | 1/4"-18 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y02-12-6C*      | 3/4"-14 NPS       | 3/8"-18 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y02-12-8C       | 3/4"-14 NPS       | 1/2"-14 NPT       | 2.50                | 63.50 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 5Y02-12-12C      | 3/4"-14 NPS       | 3/4"-14 NPT       | 2.75                | 69.85 | 1.50     | 38.10 | 10,000                   | 690   |
| 5Y02-12-16C      | 3/4"-14 NPS       | 1"-11-1/2 NPT     | 3.00                | 76.20 | 1.87     | 47.50 | 15,000                   | 1,030 |
| 5Y02-16-2C*      | 1-3/8"-12 UNF     | 1/8"-27 NPT       | 3.00                | 76.20 | 1.75     | 44.45 | 15,000                   | 1,030 |
| 5Y02-16-4C*      | 1-3/8"-12 UNF     | 1/4"-18 NPT       | 3.00                | 76.20 | 1.75     | 44.45 | 15,000                   | 1,030 |
| 5Y02-16-6C*      | 1-3/8"-12 UNF     | 3/8"-18 NPT       | 3.00                | 76.20 | 1.75     | 44.45 | 15,000                   | 1,030 |
| 5Y02-16-8C*      | 1-3/8"-12 UNF     | 1/2"-14 NPT       | 3.00                | 76.20 | 1.75     | 44.45 | 15,000                   | 1,030 |
| 5Y02-16-12C      | 1-3/8"-12 UNF     | 3/4"-14 NPT       | 3.50                | 88.90 | 1.50     | 38.10 | 10,000                   | 690   |
| 5Y02-16-16C      | 1-3/8"-12 UNF     | 1"-11-1/2 NPT     | 3.75                | 95.25 | 1.87     | 47.50 | 10,000                   | 690   |

\*Non-standard part - may require longer lead time



### WARNING

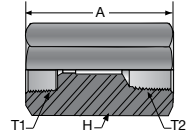
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# NPT Adapters

## 6Y02 — Female High Pressure x Female NPT Coupling



| Part Number<br># | T1<br>Thread Size<br> | T2<br>Thread Size<br> | A<br>Overall Length |       | H<br>Hex |       | Maximum Working Pressure |       |
|------------------|--|--|---------------------|-------|----------|-------|--------------------------|-------|
|                  |  |  | inch                | mm    | inch     | mm    | psi                      | bar   |
| 6Y02-4-2C*       | 9/16"-18 UNF   | 1/8"-27 NPT  | 1.50                | 38.10 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 6Y02-4-4C        | 9/16"-18 UNF   | 1/4"-18 NPT  | 1.50                | 38.10 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 6Y02-4-6C        | 9/16"-18 UNF   | 3/8"-18 NPT  | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 6Y02-4-8C        | 9/16"-18 UNF   | 1/2"-14 NPT  | 1.87                | 47.50 | 1.12     | 28.45 | 15,000                   | 1,030 |
| 6Y02-4-12C       | 9/16"-18 UNF   | 3/4"-14 NPT  | 2.00                | 50.80 | 1.62     | 41.15 | 10,000                   | 690   |
| 6Y02-4-16C*      | 9/16"-18 UNF   | 1"-11-1/2 NPT  | 2.50                | 63.50 | 1.75     | 44.45 | 10,000                   | 690   |
| 6Y02-6-2C        | 3/4"-16 UNF  | 1/8"-27 NPT  | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 6Y02-6-4C        | 3/4"-16 UNF  | 1/4"-18 NPT  | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 6Y02-6-6C        | 3/4"-16 UNF  | 3/8"-18 NPT  | 1.87                | 47.50 | 1.00     | 25.40 | 15,000                   | 1,030 |
| 6Y02-6-8C        | 3/4"-16 UNF  | 1/2"-14 NPT  | 1.87                | 47.50 | 1.12     | 28.45 | 15,000                   | 1,030 |
| 6Y02-6-12C       | 3/4"-16 UNF  | 3/4"-14 NPT  | 2.12                | 53.85 | 1.37     | 34.80 | 10,000                   | 690   |
| 6Y02-6-16C*      | 3/4"-16 UNF  | 1"-11-1/2 NPT  | 2.50                | 63.50 | 1.75     | 44.45 | 10,000                   | 690   |
| 6Y02-9-2C        | 1-1/8"-12 UNF  | 1/8"-27 NPT  | 2.37                | 60.20 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 6Y02-9-4C        | 1-1/8"-12 UNF  | 1/4"-18 NPT  | 2.37                | 60.20 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 6Y02-9-6C        | 1-1/8"-12 UNF  | 3/8"-18 NPT  | 2.37                | 60.20 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 6Y02-9-8C        | 1-1/8"-12 UNF  | 1/2"-14 NPT  | 2.37                | 60.20 | 1.37     | 34.80 | 15,000                   | 1,030 |
| 6Y02-9-12C       | 1-1/8"-12 UNF  | 3/4"-14 NPT  | 2.37                | 60.20 | 1.37     | 34.80 | 10,000                   | 690   |
| 6Y02-9-16C*      | 1-1/8"-12 UNF  | 1"-11-1/2 NPT  | 2.62                | 66.55 | 2.00     | 50.80 | 10,000                   | 690   |

\*Non-standard part - may require longer lead time

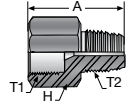


### WARNING

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# NPT Adapters

## 6Y01 — Female High Pressure x Male NPT



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 6Y01-4-2C   | 9/16"-18 UNF   | 1/8"-27 NPT    | 1.25             | 31.75 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 6Y01-4-4C   | 9/16"-18 UNF   | 1/4"-18 NPT    | 1.37             | 34.80 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 6Y01-4-6C   | 9/16"-18 UNF   | 3/8"-18 NPT    | 1.37             | 34.80 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 6Y01-4-8C   | 9/16"-18 UNF   | 1/2"-14 NPT    | 1.75             | 44.45 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 6Y01-4-12C  | 9/16"-18 UNF   | 3/4"-14 NPT    | 1.75             | 44.45 | 1.37  | 34.80 | 10,000                   | 690   |
| 6Y01-4-16C  | 9/16"-18 UNF   | 1"-11-1/2 NPT  | 1.62             | 41.15 | 1.37  | 34.80 | 10,000                   | 690   |
| 6Y01-6-1C   | 3/4"-16 UNF    | 1/16"-27 NPT   | 1.63             | 41.40 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 6Y01-6-2C*  | 3/4"-16 UNF    | 1/8"-27 NPT    | 1.50             | 38.10 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 6Y01-6-4C   | 3/4"-16 UNF    | 1/4"-18 NPT    | 1.62             | 41.15 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 6Y01-6-6C   | 3/4"-16 UNF    | 3/8"-18 NPT    | 1.62             | 41.15 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 6Y01-6-8C   | 3/4"-16 UNF    | 1/2"-14 NPT    | 1.75             | 44.45 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 6Y01-6-12C* | 3/4"-16 UNF    | 3/4"-14 NPT    | 1.87             | 47.50 | 1.37  | 34.80 | 10,000                   | 690   |
| 6Y01-6-16C  | 3/4"-16 UNF    | 1"-11-1/2 NPT  | 1.87             | 47.50 | 1.37  | 34.80 | 10,000                   | 690   |
| 6Y01-9-2C*  | 1-1/8"-12 UNF  | 1/8"-27 NPT    | 1.50             | 38.10 | 1.37  | 34.80 | 15,000                   | 1,030 |
| 6Y01-9-4C   | 1-1/8"-12 UNF  | 1/4"-18 NPT    | 1.62             | 41.15 | 1.27  | 32.26 | 15,000                   | 1,030 |
| 6Y01-9-6C   | 1-1/8"-12 UNF  | 3/8"-18 NPT    | 1.75             | 44.45 | 1.37  | 34.80 | 15,000                   | 1,030 |
| 6Y01-9-8C   | 1-1/8"-12 UNF  | 1/2"-14 NPT    | 1.87             | 47.50 | 1.37  | 34.80 | 15,000                   | 1,030 |
| 6Y01-9-12C  | 1-1/8"-12 UNF  | 3/4"-14 NPT    | 1.87             | 47.50 | 1.37  | 34.80 | 10,000                   | 690   |
| 6Y01-9-16C  | 1-1/8"-12 UNF  | 1"-11-1/2 NPT  | 2.00             | 50.80 | 1.37  | 34.80 | 10,000                   | 690   |

\*Non-standard part - may require longer lead time



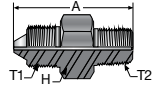
### WARNING

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# NPT Adapters

## Y601 — Male High Pressure x Male NPT



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| Y601-4-2C   | 9/16"-18 UNF   | 1/8"-27 NPT    | 1.87             | 47.50 | 0.62  | 15.75 | 15,000                   | 1,030 |
| Y601-4-4C   | 9/16"-18 UNF   | 1/4"-18 NPT    | 2.06             | 52.32 | 0.75  | 19.05 | 15,000                   | 1,030 |
| Y601-4-6C   | 9/16"-18 UNF   | 3/8"-18 NPT    | 2.00             | 50.80 | 0.75  | 19.05 | 15,000                   | 1,030 |
| Y601-4-8C   | 9/16"-18 UNF   | 1/2"-14 NPT    | 2.12             | 53.85 | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y601-4-12C  | 9/16"-18 UNF   | 3/4"-14 NPT    | 2.25             | 57.15 | 1.12  | 28.45 | 10,000                   | 690   |
| Y601-6-4C   | 3/4"-16 UNF    | 1/4"-18 NPT    | 2.12             | 53.85 | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y601-6-6C   | 3/4"-16 UNF    | 3/8"-18 NPT    | 2.12             | 53.85 | 0.87  | 22.10 | 15,000                   | 1,030 |
| Y601-6-8C   | 3/4"-16 UNF    | 1/2"-14 NPT    | 2.28             | 57.91 | 0.875 | 22.23 | 15,000                   | 1,030 |
| Y601-9-4C   | 1-1/8"-12 UNF  | 1/4"-18 NPT    | 2.37             | 60.20 | 1.12  | 28.45 | 15,000                   | 1,030 |
| Y601-9-6C   | 1-1/8"-12 UNF  | 3/8"-18 NPT    | 2.37             | 60.20 | 1.12  | 28.45 | 15,000                   | 1,030 |
| Y601-9-8C   | 1-1/8"-12 UNF  | 1/2"-14 NPT    | 2.50             | 63.50 | 1.12  | 28.45 | 15,000                   | 1,030 |
| Y601-9-12C  | 1-1/8"-12 UNF  | 3/4"-14 NPT    | 2.62             | 66.55 | 1.12  | 28.45 | 10,000                   | 690   |
| Y601-9-16C  | 1-1/8"-12 UNF  | 1"-11-1/2 NPT  | 2.75             | 69.85 | 1.37  | 34.80 | 10,000                   | 690   |

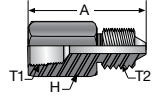


### WARNING

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# NPT Adapters

## 02Y6 — Female NPT x Male High Pressure



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 02Y6-1-6C   | 1/16"-27 NPT   | 3/4"-16 UNF    | 1.75             | 44.45 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 02Y6-2-4C   | 1/8"-27 NPT    | 9/16"-18 UNF   | 1.62             | 41.15 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 02Y6-2-6C   | 1/8"-27 NPT    | 3/4"-16 UNF    | 1.62             | 41.15 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 02Y6-2-9C   | 1/8"-27 NPT    | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 15,000                   | 1,030 |
| 02Y6-4-4C   | 1/4"-18 NPT    | 9/16"-18 UNF   | 1.75             | 44.45 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 02Y6-4-6C   | 1/4"-18 NPT    | 3/4"-16 UNF    | 1.75             | 44.45 | 0.75  | 19.05 | 15,000                   | 1,030 |
| 02Y6-4-9C   | 1/4"-18 NPT    | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 15,000                   | 1,030 |
| 02Y6-6-4C   | 3/8"-18 NPT    | 9/16"-18 UNF   | 1.75             | 44.45 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 02Y6-6-6C   | 3/8"-18 NPT    | 3/4"-16 UNF    | 1.75             | 44.45 | 1.00  | 25.40 | 15,000                   | 1,030 |
| 02Y6-6-9C   | 3/8"-18 NPT    | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 15,000                   | 1,030 |
| 02Y6-8-4C   | 1/2"-14 NPT    | 9/16"-18 UNF   | 2.12             | 53.85 | 1.12  | 28.45 | 15,000                   | 1,030 |
| 02Y6-8-6C   | 1/2"-14 NPT    | 3/4"-16 UNF    | 2.12             | 53.85 | 1.12  | 28.45 | 15,000                   | 1,030 |
| 02Y6-8-9C   | 1/2"-14 NPT    | 1-1/8"-12 UNF  | 2.12             | 53.85 | 1.12  | 28.45 | 15,000                   | 1,030 |
| 02Y6-12-6C  | 3/4"-14 NPT    | 3/4"-16 UNF    | 1.50             | 38.10 | 1.62  | 41.15 | 10,000                   | 690   |
| 02Y6-12-9C  | 3/4"-14 NPT    | 1-1/8"-12 UNF  | 2.25             | 57.15 | 1.37  | 34.80 | 10,000                   | 690   |
| 02Y6-16-9C  | 1"-11-1/2 NPT  | 1-1/8"-12 UNF  | 2.00             | 50.80 | 2.75  | 69.85 | 10,000                   | 690   |

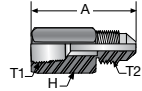


**WARNING**

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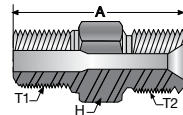
# NPT Adapters

## K0203— Female NPT x Male JIC



| Part Number    | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |     |
|----------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-----|
|                |                |                | inch             | mm    | inch  | mm    | psi                      | bar |
| #              |                |                |                  |       |       |       |                          |     |
| 10K0203-4-6C   | 1/4"-18 NPT    | 9/16"-18 UNF   | 1.68             | 42.67 | 0.875 | 22.23 | 10,000                   | 690 |
| 10K0203-4-8C   | 1/4"-18 NPT    | 3/4"-16 UNF    | 1.79             | 45.47 | 0.875 | 22.23 | 10,000                   | 690 |
| 10K0203-6-4C   | 3/8"-18 NPT    | 7/16"-20 UNF   | 1.76             | 44.70 | 1.00  | 25.40 | 10,000                   | 690 |
| 10K0203-6-6C   | 3/8"-18 NPT    | 9/16"-18 UNF   | 1.68             | 42.67 | 1.00  | 25.40 | 10,000                   | 690 |
| 10K0203-6-8C   | 3/8"-18 NPT    | 3/4"-16 UNF    | 1.88             | 47.75 | 1.00  | 25.40 | 10,000                   | 690 |
| 10K0203-8-4C   | 1/2"-14 NPT    | 7/16"-20 UNF   | 2.05             | 52.07 | 1.25  | 31.75 | 10,000                   | 690 |
| 10K0203-8-6C   | 1/2"-14 NPT    | 9/16"-18 UNF   | 1.93             | 49.02 | 1.25  | 31.75 | 10,000                   | 690 |
| 10K0203-8-8C   | 1/2"-14 NPT    | 3/4"-16 UNF    | 2.04             | 51.82 | 1.25  | 31.75 | 10,000                   | 690 |
| 10K0203-16-16C | 1"-11-1/2 NPT  | 1-5/16"-12 UN  | 2.68             | 68.07 | 2.00  | 50.80 | 10,000                   | 690 |

## 01D9 — Male NPT x Male BSP



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 01D9-4-6C   | 1/4"-18 NPT    | G3/8-19        | 1.52             | 38.60 | 0.875 | 22.23 | 15,000                   | 1,030 |
| 01D9-6-6C   | 3/8"-18 NPT    | G3/8-19        | 1.57             | 39.88 | 0.875 | 22.23 | 15,000                   | 1,030 |
| 01D9-8-6C   | 1/2"-14 NPT    | G3/8-19        | 1.86             | 47.24 | 0.875 | 22.23 | 15,000                   | 1,030 |
| 01D9-8-8C   | 1/2"-14 NPT    | G1/2-14        | 1.98             | 50.29 | 1.000 | 25.40 | 15,000                   | 1,030 |

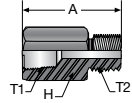


### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# NPT Adapters

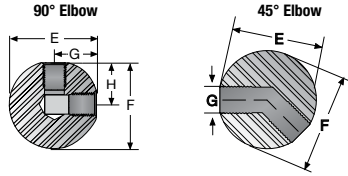
## 02D9 — Female NPT x Male BSP



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |       |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-------|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar   |
| #           |                |                |                  |       |       |       |                          |       |
| 02D9-8-8C   | 1/2"-14 NPT    | G1/2-14        | 2.10             | 53.34 | 1.25  | 31.75 | 15,000                   | 1,030 |

## KL02 — NPT Elbow

### 90° Elbow



| Part Number | Thread Size   | Thick-ness | E    |       | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|-------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm    | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |       |      |       |      |       |      |       |                       |       |
| 10KL02-12C  | 3/4"-14 NPT   | 2.05       | 1.85 | 46.99 | 1.85 | 46.99 | 1.35 | 34.29 | 1.35 | 34.29 | 10,000                | 690   |
| 10KL02-16C  | 1"-11-1/2 NPT | 2.50       | 3.83 | 97.28 | 3.83 | 97.28 | 1.82 | 46.23 | 1.82 | 46.23 | 10,000                | 690   |
| 15KL02-4C   | 1/4"-18 NPT   | 1.15       | 1.70 | 43.18 | 1.70 | 43.18 | 0.80 | 20.32 | 0.80 | 20.32 | 15,000                | 1,030 |
| 15KL02-6C   | 3/8"-18 NPT   | 1.38       | 1.90 | 48.26 | 1.90 | 48.26 | 0.90 | 22.86 | 0.90 | 22.86 | 15,000                | 1,030 |
| 15KL02-8C   | 1/2"-14 NPT   | 1.63       | 2.15 | 54.61 | 2.15 | 54.61 | 1.03 | 26.16 | 1.03 | 26.16 | 15,000                | 1,030 |

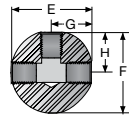
### 45° Elbow

|               |             |      | inch | mm    | inch | mm    | inch | mm    | inch | mm | psi    | bar   |
|---------------|-------------|------|------|-------|------|-------|------|-------|------|----|--------|-------|
| 15KL02-4C-45  | 1/4"-18 NPT | 1.15 | 1.68 | 42.67 | 1.68 | 42.67 | 0.7  | 17.78 | —    | —  | 15,000 | 1,030 |
| 15KL02-6C-45  | 3/8"-18 NPT | 1.38 | 1.89 | 48.01 | 1.89 | 48.01 | 0.91 | 23.11 | —    | —  | 15,000 | 1,030 |
| 15KL02-8C-45  | 1/2"-14 NPT | 1.63 | 2.15 | 54.61 | 2.15 | 54.61 | 0.94 | 23.88 | —    | —  | 15,000 | 1,030 |
| 15KL02-12C-45 | 3/4"-14 NPT | 2.00 | 2.88 | 73.15 | 2.88 | 73.15 | 1.2  | 30.48 | —    | —  | 10,000 | 690   |

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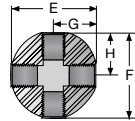
# NPT Adapters

## KT02 — NPT Tee



| Part Number | Thread Size   | Thick-ness | E    |       | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|-------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm    | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |       |      |       |      |       |      |       |                       |       |
| 10KT02-12C  | 3/4"-14 NPT   | 2.05       | 2.70 | 68.58 | 1.85 | 46.99 | 1.35 | 34.29 | 2.05 | 52.07 | 10,000                | 690   |
| 10KT02-16C  | 1"-11-1/2 NPT | 2.50       | 3.63 | 92.20 | 3.83 | 97.28 | 1.82 | 46.23 | 2.5  | 63.50 | 10,000                | 690   |
| 15KT02-4C   | 1/4"-18 NPT   | 1.15       | 1.60 | 40.64 | 1.70 | 43.18 | 0.80 | 20.32 | 1.15 | 29.21 | 15,000                | 1,030 |
| 15KT02-6C   | 3/8"-18 NPT   | 1.38       | 1.80 | 45.72 | 1.90 | 48.26 | 0.90 | 22.86 | 1.38 | 35.05 | 15,000                | 1,030 |
| 15KT02-8C   | 1/2"-14 NPT   | 1.63       | 2.05 | 52.07 | 2.15 | 54.61 | 1.03 | 26.16 | 1.63 | 41.40 | 15,000                | 1,030 |

## KX02 — NPT Cross



| Part Number | Thread Size   | Thick-ness | E    |       | F    |       | G    |       | H    |       | Max. Working Pressure |       |
|-------------|---------------|------------|------|-------|------|-------|------|-------|------|-------|-----------------------|-------|
|             |               |            | inch | mm    | inch | mm    | inch | mm    | inch | mm    | psi                   | bar   |
| #           |               |            |      |       |      |       |      |       |      |       |                       |       |
| 10KX02-12C  | 3/4"-14 NPT   | 2.05       | 2.70 | 68.58 | 2.70 | 68.58 | 1.35 | 34.29 | 1.35 | 34.29 | 10,000                | 690   |
| 10KX02-16C  | 1"-11-1/2 NPT | 2.50       | 3.63 | 92.20 | 3.63 | 92.20 | 1.82 | 46.23 | 1.82 | 46.23 | 10,000                | 690   |
| 15KX02-4C   | 1/4"-18 NPT   | 1.15       | 1.60 | 40.64 | 1.60 | 40.64 | 0.8  | 20.32 | 0.8  | 20.32 | 15,000                | 1,030 |
| 15KX02-6C   | 3/8"-18 NPT   | 1.38       | 1.80 | 45.72 | 1.80 | 45.72 | 0.9  | 22.86 | 0.9  | 22.86 | 15,000                | 1,030 |
| 15KX02-8C   | 1/2"-14 NPT   | 1.63       | 2.05 | 52.07 | 2.05 | 52.07 | 1.03 | 26.16 | 1.03 | 26.16 | 15,000                | 1,030 |






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# NPT Adapters

## NPT Caps


| Part Number   | Thread Size   | Overall Length |       | Hex Size  |       | Max. Working Pressure   |       |
|---------------|---|----------------|-------|---|-------|---|-------|
|               |   | inch           | mm    | inch  | mm    | psi   | bar   |
| #             |  |                |       |  |       |  |       |
| 15K02-2C-CAP  | 1/8"-27 NPT   | 0.90           | 22.86 | 0.75  | 19.05 | 15,000  | 1,030 |
| 15K02-4C-CAP  | 1/4"-18 NPT   | 1.16           | 29.46 | 0.875   | 22.23 | 15,000  | 1,030 |
| 15K02-6C-CAP  | 3/8"-18 NPT   | 1.25           | 31.75 | 1.00  | 25.40 | 15,000  | 1,030 |
| 15K02-8C-CAP  | 1/2"-14 NPT   | 1.43           | 36.32 | 1.25  | 31.75 | 15,000  | 1,030 |
| 15K02-12C-CAP | 3/4"-14 NPT   | 1.5            | 38.10 | 1.50  | 38.10 | 15,000  | 1,030 |



## NPT Plugs

| Part Number | Thread Size   | Overall Length |       | Hex Size  |       | Max. Working Pressure   |       |
|-------------|---|----------------|-------|---|-------|---|-------|
|             |   | inch           | mm    | inch  | mm    | psi   | bar   |
| #           |  |                |       |  |       |  |       |
| 10KP01-12C  | 3/4"-14 NPT   | 1.45           | 36.83 | 1.125   | 28.58 | 10,000  | 690   |
| 10KP01-16C  | 1"-11-1/2 NPT   | 1.81           | 45.97 | 1.375   | 34.93 | 10,000  | 690   |
| 15KP01-1C   | 1/16"-27 NPT  | 0.68           | 17.27 | 0.375   | 9.53  | 15,000  | 1,030 |
| 15KP01-2C   | 1/8"-27 NPT   | 0.75           | 19.05 | 0.50  | 12.70 | 15,000  | 1,030 |



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# JIC Adapters



Parker Parflex offers a wide range of high quality stainless steel high pressure JIC adapters from **10,000 psi to 15,000 psi** operating pressure. Sizes range from 1/4" to 1".

## Advantages:

- All adapters are rated to a minimum operating pressure of 10,000 psi
- Meets SAE J514 configuration on flare end
- Compact envelope size for ease of installation

## Sizes:

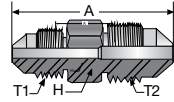
- 04 7/16"-20 UNF
- 06 9/16"-18 UNF
- 08 3/4"-16 UNF
- 10 7/8"-14 UNF
- 12 1-1/16"-12 UN
- 16 1-5/16"-12 UN



## WARNING

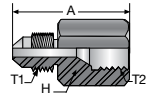
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# JIC Adapters



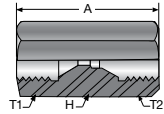
## K0303— Male JIC x Male JIC

| Part Number  | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |     |
|--------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-----|
|              |                |                | inch             | mm    | inch  | mm    | psi                      | bar |
| #            |                |                |                  |       |       |       |                          |     |
| 10K0303-4-4C | 7/16"-20 UNF   | 7/16"-20 UNF   | 1.50             | 38.10 | 0.625 | 15.88 | 10,000                   | 690 |
| 10K0303-4-6C | 7/16"-20 UNF   | 9/16"-18 UNF   | 1.50             | 38.10 | 0.625 | 15.88 | 10,000                   | 690 |
| 10K0303-4-8C | 7/16"-20 UNF   | 3/4"-16 UNF    | 1.72             | 43.69 | 0.875 | 22.23 | 10,000                   | 690 |
| 10K0303-6-8C | 9/16"-18 UNF   | 3/4"-16 UNF    | 1.73             | 43.94 | 0.875 | 22.23 | 10,000                   | 690 |



## K0306— Male JIC x Female JIC

| Part Number  | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |     |
|--------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-----|
|              |                |                | inch             | mm    | inch  | mm    | psi                      | bar |
| #            |                |                |                  |       |       |       |                          |     |
| 10K0306-4-4C | 7/16"-20 UNF   | 7/16"-20 UNF   | 1.43             | 36.32 | 0.75  | 19.05 | 10,000                   | 690 |
| 10K0306-4-6C | 7/16"-20 UNF   | 9/16"-18 UNF   | 1.55             | 39.37 | 0.875 | 22.23 | 10,000                   | 690 |
| 10K0306-4-8C | 7/16"-20 UNF   | 3/4"-16 UNF    | 1.60             | 40.64 | 1.00  | 25.40 | 10,000                   | 690 |
| 10K0306-6-6C | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.55             | 39.37 | 0.875 | 22.23 | 10,000                   | 690 |
| 10K0306-8-6C | 3/4"-16 UNF    | 9/16"-18 UNF   | 1.55             | 39.37 | 0.875 | 22.23 | 10,000                   | 690 |



## K0606— Female JIC x Female JIC

| Part Number  | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |     |
|--------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-----|
|              |                |                | inch             | mm    | inch  | mm    | psi                      | bar |
| #            |                |                |                  |       |       |       |                          |     |
| 10K0606-4-4C | 7/16"-20 UNF   | 7/16"-20 UNF   | 1.35             | 34.29 | 0.75  | 19.05 | 10,000                   | 690 |
| 10K0606-4-6C | 7/16"-20 UNF   | 9/16"-18 UNF   | 1.50             | 38.10 | 0.875 | 22.23 | 10,000                   | 690 |
| 10K0606-6-6C | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.40             | 35.56 | 0.875 | 22.23 | 10,000                   | 690 |

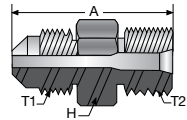


**WARNING**

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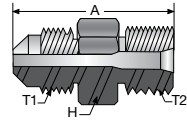
# JIC Adapters

## YA03 — Male Type “M” x Male JIC



| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |     |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-----|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar |
| #           |                |                |                  |       |       |       |                          |     |
| YA03-11-6C  | 1"-12 UNF      | 9/16"-18 UNF   | 1.69             | 42.93 | 1.00  | 34.93 | 10,000                   | 690 |
| YA03-16-8C  | 1-5/16"-12 UN  | 3/4"-16 UNF    | 1.79             | 45.47 | 1.375 | 34.93 | 10,000                   | 690 |
| YA03-16-12C | 1-5/16"-12 UN  | 1-1/16"-12 UN  | 2.00             | 50.80 | 1.375 | 34.93 | 10,000                   | 690 |

## Y503 — Male Medium Pressure x Male JIC



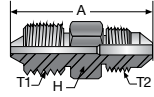
| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |        | H Hex |       | Maximum Working Pressure |     |
|-------------|----------------|----------------|------------------|--------|-------|-------|--------------------------|-----|
|             |                |                | inch             | mm     | inch  | mm    | psi                      | bar |
| #           |                |                |                  |        |       |       |                          |     |
| Y503-4-8C   | 7/16"-20 UNF   | 3/4"-16 UNF    | 1.74             | 44.20  | 0.875 | 22.23 | 10,000                   | 690 |
| Y503-9-10C  | 13/16"-16 UN   | 7/8"-14 UNF    | 2.38             | 60.45  | 1.000 | 25.40 | 10,000                   | 690 |
| Y503-9-12C  | 13/16"-16 UN   | 1-1/16"-12 UN  | 2.47             | 62.74  | 1.125 | 28.58 | 10,000                   | 690 |
| Y503-9-16C  | 13/16"-16 UN   | 1-5/16"-12 UN  | 2.55             | 64.77  | 1.375 | 34.93 | 10,000                   | 690 |
| Y503-12-6C  | 3/4"-14 NPSM   | 9/16"-18 UNF   | 2.25             | 57.15  | 1.125 | 28.58 | 10,000                   | 690 |
| Y503-12-8C  | 3/4"-14 NPSM   | 3/4"-16 UNF    | 2.35             | 59.69  | 1.125 | 28.58 | 10,000                   | 690 |
| Y503-12-12C | 3/4"-14 NPSM   | 1-1/16"-12 UN  | 2.66             | 67.56  | 1.125 | 28.58 | 10,000                   | 690 |
| Y503-16-12C | 1"-14 UNF LH   | 1-1/16"-12 UN  | 4.02             | 102.11 | 1.125 | 28.58 | 10,000                   | 690 |
| Y503-16-16C | 1"-14 UNF LH   | 1-5/16"-12 UN  | 4.07             | 103.38 | 1.375 | 34.93 | 10,000                   | 690 |



### WARNING

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# JIC Adapters

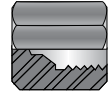


## Y603 — Male High Pressure x Male JIC

| Part Number | T1 Thread Size | T2 Thread Size | A Overall Length |       | H Hex |       | Maximum Working Pressure |     |
|-------------|----------------|----------------|------------------|-------|-------|-------|--------------------------|-----|
|             |                |                | inch             | mm    | inch  | mm    | psi                      | bar |
| #           |                |                |                  |       |       |       |                          |     |
| Y603-4-4C   | 9/16"-18 UNF   | 7/16"-20 UNF   | 1.61             | 40.89 | 0.625 | 15.88 | 10,000                   | 690 |
| Y603-4-6C   | 9/16"-18 UNF   | 9/16"-18 UNF   | 1.61             | 40.89 | 0.625 | 15.88 | 10,000                   | 690 |
| Y603-4-8C   | 9/16"-18 UNF   | 3/4"-16 UNF    | 1.81             | 45.97 | 0.875 | 22.23 | 10,000                   | 690 |
| Y603-6-4C   | 3/4"-16 UNF    | 7/16"-20 UNF   | 1.84             | 46.74 | 0.750 | 19.05 | 10,000                   | 690 |
| Y603-6-6C   | 3/4"-16 UNF    | 9/16"-18 UNF   | 1.94             | 49.28 | 0.750 | 19.05 | 10,000                   | 690 |
| Y603-6-8C   | 3/4"-16 UNF    | 3/4"-16 UNF    | 2.04             | 51.82 | 0.875 | 22.23 | 10,000                   | 690 |
| Y603-9-6C   | 1-1/8"-12 UNF  | 9/16"-18 UNF   | 2.09             | 53.09 | 1.125 | 28.58 | 10,000                   | 690 |
| Y603-9-8C   | 1-1/8"-12 UNF  | 3/4"-16 UNF    | 2.19             | 55.63 | 1.125 | 28.58 | 10,000                   | 690 |

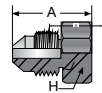
## JIC Caps

| Part Number   | Thread Size   | Overall Length |       | Hex Size |       | Maximum Working Pressure |     |
|---------------|---------------|----------------|-------|----------|-------|--------------------------|-----|
|               |               | inch           | mm    | inch     | mm    | psi                      | bar |
| #             |               |                |       |          |       |                          |     |
| 10K06-4C-CAP  | 7/16"-20 UNF  | 0.83           | 21.08 | 0.75     | 19.05 | 10,000                   | 690 |
| 10K06-6C-CAP  | 9/16"-18 UNF  | 0.93           | 23.62 | 0.875    | 22.23 | 10,000                   | 690 |
| 10K06-8C-CAP  | 3/4"-16 UNF   | 1.04           | 26.42 | 1.00     | 25.40 | 10,000                   | 690 |
| 10K06-10C-CAP | 7/8"-14 UNF   | 1.16           | 29.46 | 1.25     | 31.75 | 10,000                   | 690 |
| 10K06-12C-CAP | 1-1/16"-12 UN | 1.31           | 33.27 | 1.50     | 38.10 | 10,000                   | 690 |



## JIC Plugs

| Part Number | Thread Size   | Overall Length |       | Hex Size |       | Maximum Working Pressure |     |
|-------------|---------------|----------------|-------|----------|-------|--------------------------|-----|
|             |               | inch           | mm    | inch     | mm    | psi                      | bar |
| #           |               |                |       |          |       |                          |     |
| 10KP03-4C   | 7/16"-20 UNF  | 0.81           | 20.57 | 0.5      | 12.70 | 10,000                   | 690 |
| 10KP03-6C   | 9/16"-18 UNF  | 0.85           | 21.59 | 0.625    | 15.88 | 10,000                   | 690 |
| 10KP03-8C   | 3/4"-16 UNF   | 0.95           | 24.13 | 0.812    | 20.62 | 10,000                   | 690 |
| 10KP03-10C  | 7/8"-14 UNF   | 1.11           | 28.19 | 0.937    | 23.80 | 10,000                   | 690 |
| 10KP03-16C  | 1-5/16"-12 UN | 1.34           | 34.04 | 1.375    | 34.93 | 10,000                   | 690 |



### WARNING

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# Valves

Medium Pressure — up to 20K psi

High Pressure — up to 60K psi



Developed to assure safe and easy plumbing through 60,000 psi, these needle valves are engineered to the highest standards of repeatable quality. The medium pressure valves are designed with a compact cone-and-threaded connection which permits the larger bore sizes and increased flow rates common in this pressure class. The high pressure valves also use a cone-and-threaded connection which accommodates the high pressures common in these applications.

Non-rotating tip stems are standard for on-off service and ensure long life of valve seats.

Materials include high tensile Type 316 stainless steel bodies and hardened 17-4PH stainless steel lower section stems.

Standard packing is TFE with optional Viton®, BUNA-N and Grafoil available as non-standard.

Two-way straight valves are standard with five additional patterns available to satisfy a wide variety of requirements.

## Features:

- Non-rotating stem tips
- Packing below stem threads
- Type 316 as high tensile bodies
- Positive gland lock device
- No stem adjustment needed
- Black T-handles are standard; choice of 4 colors available for special order
- Tube sizes:
  - Medium pressure — 1/4" through 1"
  - High pressure — 1/4" through 9/16"

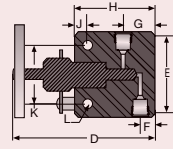


### WARNING

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# Medium Pressure Valves-(20K psi)

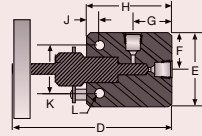


## SV5Y — Two-way Straight Valves

| Part Number  | Connection Size | Orifice | Thick-ness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|--------------|-----------------|---------|------------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #            |                 |         |            | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| SV5Y-4C-20*  | 1/4" MP         | 0.51    | 1.37       | 7.00 | 3.00 | 0.75 | 1.50 | 3.75 | 0.62 | 1.75 | 0.43 | 20,000                | 1,380 |
| SV5Y-6C-20   | 3/8" MP         | 0.68    | 1.75       | 8.42 | 4.12 | 0.87 | 1.81 | 4.62 | 1.12 | 2.50 | 0.56 | 20,000                | 1,380 |
| SV5Y-9C-20   | 9/16" MP        | 0.10    | 0.75       | 4.37 | 2.00 | 0.37 | 0.81 | 2.00 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| SV5Y-12C-20* | 3/4" MP         | 0.20    | 0.75       | 4.37 | 2.00 | 0.37 | 0.81 | 2.00 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| SV5Y-16C-20* | 1" MP           | 0.31    | 1.00       | 6.12 | 2.50 | 0.50 | 1.12 | 2.87 | 0.50 | 1.37 | 0.34 | 20,000                | 1,380 |

\*Non-standard part - may require longer lead time

## AV5Y — Two-way Angle Valves



| Part Number  | Connection Size | Orifice | Thick-ness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|--------------|-----------------|---------|------------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #            |                 |         |            | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| AV5Y-4C-20   | 1/4" MP         | 0.10    | 0.75       | 4.81 | 2.00 | 1.00 | 1.25 | 2.43 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| AV5Y-6C-20   | 3/8" MP         | 0.10    | 0.75       | 4.81 | 2.00 | 1.00 | 1.25 | 2.43 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| AV5Y-9C-20   | 9/16" MP        | 0.51    | 1.00       | 6.62 | 2.50 | 1.25 | 1.62 | 3.37 | 0.50 | 1.37 | 0.34 | 20,000                | 1,380 |
| AV5Y-12C-20  | 3/4" MP         | 0.51    | 1.37       | 7.50 | 3.00 | 1.50 | 2.00 | 4.25 | 0.62 | 1.75 | 0.43 | 20,000                | 1,380 |
| AV5Y-16C-20* | 1" MP           | 0.68    | 1.75       | 9.37 | 4.12 | 2.06 | 2.56 | 5.43 | 1.12 | 2.50 | 0.56 | 20,000                | 1,380 |

\*Non-standard part - may require longer lead time

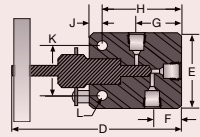


**WARNING**

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# Medium Pressure Valves-(20K psi)

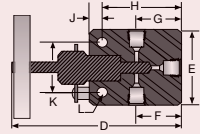
## TV25Y — Three-way Valves, Two Pressure Connections



| Part Number   | Connection Size | Orifice | Thickness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|---------------|-----------------|---------|-----------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #             |                 |         |           | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| TV25Y-4C-20*  | 1/4" MP         | 0.10    | 0.75      | 5.00 | 2.00 | 1.00 | 1.43 | 2.62 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| TV25Y-6C-20*  | 3/8" MP         | 0.20    | 0.75      | 5.00 | 2.00 | 1.00 | 1.43 | 2.62 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| TV25Y-9C-20   | 9/16" MP        | 0.31    | 1.00      | 6.87 | 2.50 | 1.25 | 1.87 | 3.62 | 0.50 | 1.37 | 0.34 | 20,000                | 1,380 |
| TV25Y-12C-20* | 3/4" MP         | 0.51    | 1.37      | 7.87 | 3.00 | 2.62 | 2.37 | 4.67 | 0.62 | 1.75 | 0.43 | 20,000                | 1,380 |
| TV25Y-16C-20* | 1" MP           | 0.68    | 1.75      | 9.75 | 4.12 | 2.12 | 3.06 | 5.87 | 1.12 | 2.50 | 0.56 | 20,000                | 1,380 |

\*Non-standard part - may require longer lead time

## TV15Y — Three-way Valves, One Pressure Connection

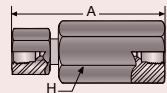


| Part Number   | Connection Size | Orifice | Thickness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|---------------|-----------------|---------|-----------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #             |                 |         |           | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| TV15Y-4C-20*  | 1/4" MP         | 0.10    | 0.75      | 4.81 | 2.00 | 1.25 | 1.25 | 2.43 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| TV15Y-6C-20*  | 3/8" MP         | 0.20    | 0.75      | 4.81 | 2.00 | 1.25 | 1.25 | 2.43 | 0.37 | 1.25 | 0.21 | 20,000                | 1,380 |
| TV15Y-9C-20*  | 9/16" MP        | 0.31    | 1.00      | 6.62 | 2.50 | 1.62 | 1.62 | 3.37 | 0.50 | 1.37 | 0.34 | 20,000                | 1,380 |
| TV15Y-12C-20* | 3/4" MP         | 0.51    | 1.37      | 7.50 | 3.00 | 2.00 | 2.00 | 4.25 | 0.62 | 1.75 | 0.43 | 20,000                | 1,380 |
| TV15Y-16C-20* | 1" MP           | 0.68    | 1.75      | 9.37 | 4.12 | 2.62 | 2.62 | 5.43 | 1.12 | 2.50 | 0.56 | 20,000                | 1,380 |

\*Non-standard part - may require longer lead time

## CV5Y — Medium Pressure Ball Check Valves

| Part Number | Connection Size | A Overall Length |       | Hex Size |       | Max. Working Pressure |       |
|-------------|-----------------|------------------|-------|----------|-------|-----------------------|-------|
| #           |                 | inch             | mm    | inch     | mm    | psi                   | bar   |
| CV5Y-4C-20* | 1/4" MP         | 3.75             | 95.25 | 1.00     | 25.40 | 20,000                | 1,380 |
| CV5Y-6C-20  | 3/8" MP         | 3.75             | 95.25 | 1.00     | 25.40 | 20,000                | 1,380 |
| CV5Y-9C-20  | 9/16" MP        | 0.35             | 8.89  | 1.37     | 34.80 | 20,000                | 1,380 |



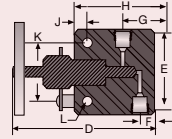
\*Non-standard part - may require longer lead time



### WARNING

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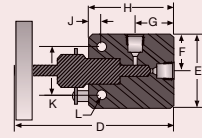
# High Pressure Valves-(30K/60K psi)



## SV6Y — Two-way Straight Valves

| Part Number | Connection Size | Orifice | Thick-ness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|-------------|-----------------|---------|------------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #           |                 |         |            | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| SV6Y-4C-30  | 1/4" HP         | 0.09    | 1.00       | 5.18 | 2.00 | 0.62 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| SV6Y-6C-30  | 3/8" HP         | 0.12    | 1.00       | 5.18 | 2.00 | 0.62 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| SV6Y-9C-30  | 9/16" HP        | 0.12    | 1.50       | 5.62 | 2.62 | 1.00 | 1.43 | 2.87 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| SV6Y-4C-60  | 1/4" HP         | 0.06    | 1.00       | 5.18 | 2.00 | 0.62 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| SV6Y-6C-60  | 3/8" HP         | 0.06    | 1.00       | 5.18 | 2.00 | 0.62 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| SV6Y-9C-60  | 9/16" HP        | 0.06    | 1.50       | 5.62 | 2.62 | 1.00 | 1.43 | 2.87 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |

## AV6Y — Two-way Angle Valves



| Part Number | Connection Size | Orifice | Thick-ness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|-------------|-----------------|---------|------------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #           |                 |         |            | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| AV6Y-4C-30  | 1/4" HP         | 0.09    | 1.00       | 5.18 | 2.00 | 1.00 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| AV6Y-6C-30  | 3/8" HP         | 0.12    | 1.00       | 5.56 | 2.00 | 1.00 | 1.37 | 2.81 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| AV6Y-9C-30  | 9/16" HP        | 0.12    | 1.50       | 5.62 | 2.62 | 1.31 | 1.43 | 2.87 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| AV6Y-4C-60  | 1/4" HP         | 0.06    | 1.00       | 5.18 | 2.00 | 1.00 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| AV6Y-6C-60  | 3/8" HP         | 0.06    | 1.00       | 5.56 | 2.00 | 1.00 | 1.37 | 2.81 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| AV6Y-9C-60* | 9/16" HP        | 0.06    | 1.50       | 5.62 | 2.62 | 1.31 | 1.43 | 2.87 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |

\*Non-standard part - may require longer lead time



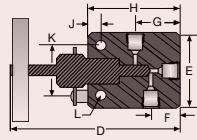
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# High Pressure Valves-(30K/60K psi)

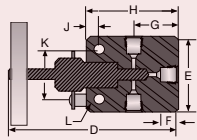
## TV26Y — Three-way Valves, Two Pressure Connections



| Part Number  | Connection Size | Orifice | Thickness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|--------------|-----------------|---------|-----------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #            |                 |         |           | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| TV26Y-4C-30* | 1/4" HP         | 0.09    | 1.00      | 5.18 | 2.00 | 0.62 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| TV26Y-6C-30* | 3/8" HP         | 0.12    | 1.00      | 5.56 | 2.00 | 1.00 | 1.37 | 2.81 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| TV26Y-9C-30* | 9/16" HP        | 0.12    | 1.50      | 6.06 | 2.62 | 1.43 | 1.87 | 3.31 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| TV26Y-4C-60* | 1/4" HP         | 0.06    | 1.00      | 5.18 | 2.00 | 0.62 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| TV26Y-6C-60* | 3/8" HP         | 0.06    | 1.00      | 5.56 | 2.00 | 1.00 | 1.37 | 2.81 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| TV26Y-9C-60* | 9/16" HP        | 0.06    | 1.50      | 6.06 | 2.62 | 1.43 | 1.87 | 2.87 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |

\*Non-standard part - may require longer lead time

## TV16Y — Three-way Valves, One Pressure Connection



| Part Number  | Connection Size | Orifice | Thickness | D    | E    | F    | G    | H    | J    | K    | L    | Max. Working Pressure |       |
|--------------|-----------------|---------|-----------|------|------|------|------|------|------|------|------|-----------------------|-------|
| #            |                 |         |           | inch | inch | inch | inch | inch | inch | inch | inch | psi                   | bar   |
| TV16Y-4C-30* | 1/4" HP         | 0.09    | 1.00      | 5.18 | 2.00 | 1.00 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| TV16Y-6C-30* | 3/8" HP         | 0.12    | 1.00      | 5.56 | 2.00 | 2.00 | 1.43 | 2.81 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| TV16Y-9C-30* | 9/16" HP        | 0.12    | 1.50      | 5.62 | 2.62 | 2.18 | 1.43 | 2.87 | 0.50 | 1.37 | 0.21 | 30,000                | 2,070 |
| TV16Y-4C-60* | 1/4" HP         | 0.06    | 1.00      | 5.18 | 2.00 | 1.00 | 1.00 | 2.43 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| TV16Y-6C-60  | 3/8" HP         | 0.06    | 1.00      | 5.56 | 2.00 | 2.00 | 1.43 | 2.81 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |
| TV16Y-9C-60* | 9/16" HP        | 0.06    | 1.50      | 5.62 | 2.62 | 2.18 | 1.43 | 2.87 | 0.50 | 1.37 | 0.21 | 60,000                | 4,140 |

\*Non-standard part - may require longer lead time

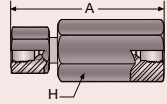


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# High Pressure Valves

## CV6Y— High Pressure Ball Check Valves



| Part Number | Connection Size | A Overall Length |        | H Hex |       | Maximum Working Pressure |       |
|-------------|-----------------|------------------|--------|-------|-------|--------------------------|-------|
|             |                 | inch             | mm     | inch  | mm    | psi                      | bar   |
| #           |                 |                  |        |       |       |                          |       |
| CV6Y-4C-60  | 1/4" HP         | 4.18             | 106.17 | 1.50  | 38.10 | 60,000                   | 4,140 |
| CV6Y-6C-60* | 3/8" HP         | 4.25             | 107.95 | 1.50  | 38.10 | 60,000                   | 4,140 |
| CV6Y-9C-60  | 9/16" HP        | 4.62             | 117.35 | 1.56  | 39.62 | 60,000                   | 4,140 |

\*Non-standard part - may require longer lead time

DISCONTINUED



**WARNING**

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# Quick Couplings

Rogan Series  
C-Series Hydraulic



# Table of Contents

## Introduction

Quick Coupling Nomenclature ..... D-3

## Quick Couplings

**Rogan Series**..... D-5

    HP006 Coupler ..... D-6

    HP006 Nipple without Check Valve..... D-7

    HP006 Nipple with Check Valve ..... D-8

    HP010 Coupler ..... D-9

    HP010 Nipple without Check Valve..... D-10

    HP010 Nipple with Check Valve..... D-11

**C Series** ..... D-12

    115 Coupler ..... D-13

    115 Nipple ..... D-14

    116 Coupler ..... D-15

    116 Nipple ..... C-16

    125 Coupler ..... D-17

    125 Nipple ..... D-17

    Quick Coupling Adapters ..... D-18

# Quick Coupling Nomenclature

## Quick Coupling Part Numbers (Rogan Series)

The part number description given to the Rogan Series (Walther Quick Couplings) is as follows:

### Example: HP006-0-NMC

**HP006**-0-NMC – **Thru Hole Size** (HP006 = .24", or 6mm, nominal thru hole diameter)

HP006-**0**-NMC – **Component Type** (0 = Female coupler with check valve)

HP006-0-**NMC** – **Connection Type** (N = NPT)

HP006-0-N**MC** – **Connection Gender** (M = Male)

HP006-0-NMC – **Connection Size** (C = 3/8" NPT)

| Thru Hole Size |   |
|----------------|---|
| HP006          | .24", or 6mm, nominal thru hole diameter  |
| HP010          | .40", or 10mm, nominal thru hole diameter |

| Component Type |  |
|----------------|--|
| 0              | Female coupler with check valve                |
| 1              | Male nipple w/o check valve (straight through) |
| 2              | Male nipple with check valve                   |

| Thread Form     |                     |                   |        |                 |          |
|-----------------|---------------------|-------------------|--------|-----------------|----------|
| Connection Type |                     | Connection Gender |        | Connection Size |          |
| H               | High Pressure       | M                 | Male   | 4               | 1/4"     |
| L               | Medium Pressure     | F                 | Female | 6               | 3/8"     |
| A               | Type "M"            |                   |        | 9               | 9/16"    |
| N               | NPT                 |                   |        | 12              | 3/4"     |
| X               | Low Angle Face Seal |                   |        | 16              | 1"       |
|                 |                     |                   |        | B               | 1/4" NPT |
|                 |                     |                   |        | C               | 3/8" NPT |
|                 |                     |                   |        | D               | 1/2" NPT |

# Quick Coupling Nomenclature

## Quick Coupling Part Numbers (C Series)

The part number description given to the C Series couplings is as shown below. This description is for couplings only. The part numbers for quick coupling adapters will deviate from this structure.

### Example: C10-116-1202

|  |   |
|--|---|
| <b>C10</b> -116-1202 – <b>Part Type</b>      | [C10 = Coupling Component]                  |
| C10- <b>116</b> -1202 – <b>Series</b>        | [116 = Max. Working Pressure of 21,760 psi] |
| C10-116- <b>1202</b> – <b>Component Type</b> | [1 = Coupler]                               |
| C10-116-1 <b>202</b> – <b>Connection</b>     | [2 = BSP]                                   |
| C10-116-120 <b>2</b> – <b>Gender</b>         | [0 = Female]                                |
| C10-116-1202- <b>2</b> – <b>Size</b>         | [2 = 1/4"]                                  |

| Part Type |                    |
|-----------|--------------------|
| C10       | Coupling component |
| C19       | Adapter            |

| Series |  |
|--------|--|
| 115    | Working pressure of 14,500 psi (100 MPa)                     |
| 116    | Working pressure of 21,760 psi (150 MPa)                     |
| 125    | Working pressure of 29,000 psi (200 MPa)                     |
| 950    | Adapters only - Working pressures up to 43,500 psi (300 MPa) |

| Part Type - Couplings only, not applicable to adapters |                        |
|--|------------------------|
| 1  | Coupler                |
| 6  | Nipple                 |
| 5  | Nipple w/o Check Valve |

| Thread Form - Couplings only, not applicable to adapters |     |                   |                                      |                 |      |
|--|-----|-------------------|--------------------------------------|-----------------|------|
| Connection Type  |     | Connection Gender |                                      | Connection Size |      |
| 2  | BSP | 5                 | Male                                 | 1               | 1/8" |
| 4  | NPT | 0                 | Female                               | 2               | 1/4" |
|  |     | 2                 | Female<br>w/ built-in locking device | 4               | 3/8" |

# Rogan Series Quick Couplings



Rogan series quick couplings are versatile connecting devices that permit easy and rapid joining of hose assemblies to your system. Each coupling is assembled and pressure tested to at least 5,000 psi above its maximum rated working pressure. Couplings with check-valves can withstand the full working pressure in the disconnected condition. The standard seal material is Nitrile, however, Viton, EPDM and FFKM are also available.

| Type  | Max. Working Pressure (psi) | Test Pressure (psi) | Nominal Thru Hole Diameter (in) |
|-------|-----------------------------|---------------------|---------------------------------|
| HP006 | 30,000                      | 35,000              | 0.24                            |
| HP010 | 20,000                      | 25,000              | 0.40                            |

**Note:** The choice of the threaded end form may limit the working pressure and the size of the thru hole in the coupling. Call **polyflex** for additional information.






## WARNING

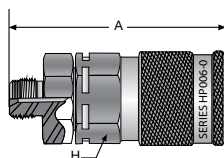
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# Rogan Series Quick Couplings

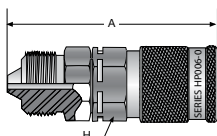
## HP006 Coupler

| Part Number | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|-------------|---|------------------|-------|---|-------|---|-------|
|             |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #           |  |                  |       |  |       |  |       |
| HP006-0-A9  | Type "M" (9/16" - 18)   | 3.30             | 83.82 | 1.19  | 30.23 | 30,000  | 2,070 |
| HP006-0-A12 | Type "M" (3/4" - 16)  | 3.34             | 84.84 | 1.19  | 30.23 | 30,000  | 2,070 |
| HP006-0-HM4 | 1/4" High Pressure Male (9/16" - 18)  | 3.46             | 87.88 | 1.19  | 30.23 | 30,000  | 2,070 |
| HP006-0-HM9 | 9/16" High Pressure Male (1-1/8" - 12)  | 3.70             | 93.98 | 1.19  | 30.23 | 30,000  | 2,070 |
| HP006-0-LM6 | 3/8" Medium Pressure Male (9/16" - 18)  | 3.54             | 89.92 | 1.19  | 30.23 | 20,000  | 1,380 |
| HP006-0-NFB | 1/4" NPT Female   | 3.30             | 83.82 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-0-NFC | 3/8" NPT Female   | 3.30             | 83.82 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-0-NMB | 1/4" NPT Male   | 3.40             | 86.36 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-0-NMC | 3/8" NPT Male   | 3.30             | 83.82 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-0-NMD | 1/2" NPT Male   | 3.45             | 87.63 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-0-X13 | Low Angle Face Seal (9/16" - 18)  | 3.37             | 85.60 | 1.19  | 30.23 | 30,000  | 2,070 |

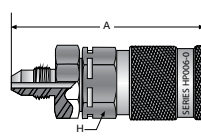
Construction: Alloy steel



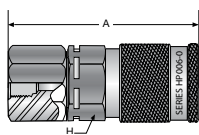
HP006-0-A9  
HP006-0-A12



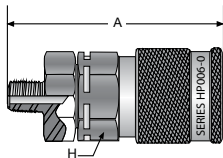
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HP006-0-HM9



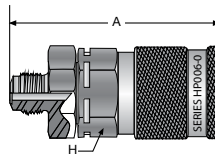
HP006-0-LM6



HP006-0-NFB  
HP006-0-NFC



HP006-0-NMB  
HP006-0-NMC  
HP006-0-NMD



HP006-0-X13






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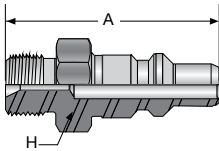


# Rogan Series Quick Couplings

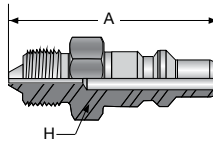
## HP006 Nipple w/o Check Valve

| Part Number | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|-------------|---|------------------|-------|---|-------|---|-------|
|             |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #           |  |                  |       |  |       |  |       |
| HP006-1-A9  | Type "M" (9/16" - 18)   | 1.98             | 50.29 | 0.75  | 19.05 | 30,000  | 2,070 |
| HP006-1-A12 | Type "M" (3/4" - 16)  | 2.16             | 54.86 | 0.87  | 22.10 | 30,000  | 2,070 |
| HP006-1-HM4 | 1/4" High Pressure Male (9/16" - 18)  | 2.25             | 57.15 | 0.75  | 19.05 | 30,000  | 2,070 |
| HP006-1-LM6 | 3/8" Medium Pressure Male (9/16" - 18)  | 2.33             | 59.18 | 0.75  | 19.05 | 20,000  | 1,380 |
| HP006-1-LM9 | 9/16" Medium Pressure Male (13/16" - 16)  | 2.57             | 65.28 | 1.00  | 25.40 | 20,000  | 1,380 |
| HP006-1-NMB | 1/4" NPT Male   | 2.09             | 53.09 | 0.75  | 19.05 | 15,000  | 1,030 |
| HP006-1-NMC | 3/8" NPT Male   | 2.13             | 54.10 | 0.75  | 19.05 | 15,000  | 1,030 |
| HP006-1-NMD | 1/2" NPT Male   | 2.31             | 58.67 | 1.00  | 25.40 | 15,000  | 1,030 |
| HP006-1-X13 | Low Angle Face Seal (9/16" - 18)  | 2.17             | 55.12 | 0.75  | 19.05 | 30,000  | 2,070 |

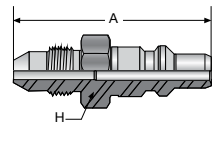
Construction: Alloy steel



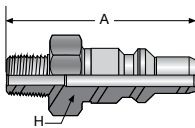
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HP006-1-A12



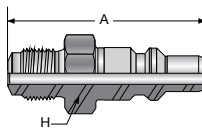
HP006-1-HM4



HP006-1-LM6  
HP006-1-LM9



HP006-1-NMB  
HP006-1-NMC  
HP006-1-NMD



HP006-1-X13






### WARNING

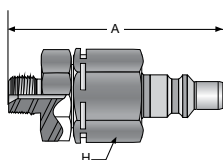
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# Rogan Series Quick Couplings

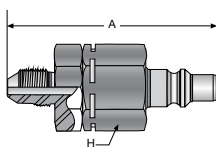
## HP006 Nipple w/ Check Valve

| Part Number | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|-------------|---|------------------|-------|---|-------|---|-------|
|             |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #           |  |                  |       |  |       |  |       |
| HP006-2-A9  | Type "M" [9/16" - 18]   | 3.28             | 83.31 | 1.19  | 30.23 | 30,000  | 2,070 |
| HP006-2-A12 | Type "M" [3/4" - 16]  | 3.30             | 83.82 | 1.19  | 30.23 | 30,000  | 2,070 |
| HP006-2-HM4 | 1/4" High Pressure Male [9/16" - 18]  | 3.45             | 87.63 | 1.19  | 30.23 | 30,000  | 2,070 |
| HP006-2-LM6 | 3/8" Medium Pressure Male [9/16" - 18]  | 3.52             | 89.41 | 1.19  | 30.23 | 20,000  | 1,380 |
| HP006-2-NFB | 1/4" NPT Female   | 3.26             | 82.80 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-2-NFC | 3/8" NPT Female   | 3.25             | 82.55 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-2-NMB | 1/4" NPT Male   | 3.34             | 84.84 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-2-NMC | 3/8" NPT Male   | 3.34             | 84.84 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-2-NMD | 1/2" NPT Male   | 3.43             | 87.12 | 1.19  | 30.23 | 15,000  | 1,030 |
| HP006-2-X13 | Low Angle Face Seal [9/16" - 18]  | 3.35             | 85.09 | 1.19  | 30.23 | 30,000  | 2,070 |

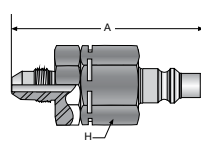
Construction: Alloy steel



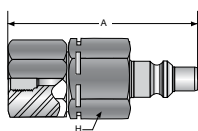
HP006-2-A9  
HP006-2-A12



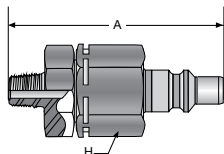
HP006-2-HM4



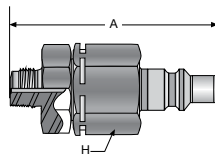
HP006-2-LM6



HP006-2-NFB  
HP006-2-NFC



HP006-2-NMB  
HP006-2-NMC  
HP006-2-NMD



HP006-2-X13






### WARNING

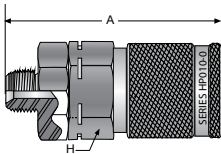
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# Rogan Series Quick Couplings

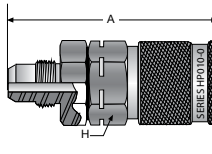
## HP010 Coupler

| Part Number  | Thread Type   | A Overall Length |        | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|--------|---|-------|---|-------|
|              |   | inch             | mm     | inch  | mm    | psi   | bar   |
| #            |  |                  |        |  |       |  |       |
| HP010-0-A12  | Type "M" (3/4" - 16)  | 4.00             | 101.60 | 1.62  | 41.15 | 20,000  | 1,380 |
| HP010-0-A16  | Type "M" (1" - 12)  | 4.10             | 104.14 | 1.62  | 41.15 | 20,000  | 1,380 |
| HP010-0-LM12 | 3/4" Medium Pressure Male (3/4" - 14)   | 4.64             | 117.86 | 1.62  | 41.15 | 20,000  | 1,380 |
| HP010-0-NFD  | 1/2" NPT Female   | 4.27             | 108.46 | 1.62  | 41.15 | 15,000  | 1,030 |
| HP010-0-NMD  | 1/2" NPT Male   | 4.13             | 104.90 | 1.62  | 41.15 | 15,000  | 1,030 |
| HP010-0-X23  | Low Angle Face Seal (3/4" - 16)   | 4.19             | 106.43 | 1.62  | 41.15 | 20,000  | 1,380 |

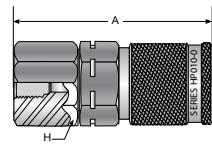
Construction: Alloy steel



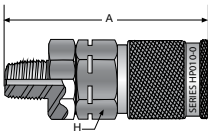
HP010-0-A12  
HP010-0-A16



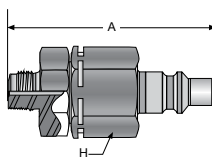
HP010-0-LM12



HP010-0-NFD



HP010-0-NMD



HP010-2-X13






**WARNING**

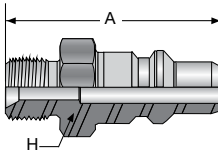
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# Rogan Series Quick Couplings

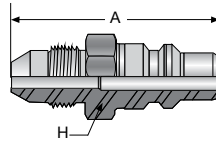
## HP010 Nipple w/o Check Valve

| Part Number  | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|-------|---|-------|---|-------|
|              |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #            |  |                  |       |  |       |  |       |
| HP010-1-A12  | Type "M" (3/4" - 16)  | 2.40             | 60.96 | 1.06  | 26.92 | 20,000  | 1,380 |
| HP010-1-A16  | Type "M" (1" - 12)  | 2.53             | 64.26 | 1.18  | 29.97 | 20,000  | 1,380 |
| HP010-1-LM9  | 9/16" Medium Pressure Male  | 3.12             | 79.25 | 1.18  | 29.97 | 20,000  | 1,380 |
| HP010-1-LM12 | 3/4" Medium Pressure Male   | 2.84             | 72.14 | 1.06  | 26.92 | 20,000  | 1,380 |
| HP010-1-NMD  | 1/2" NPT Male   | 2.52             | 64.01 | 1.06  | 26.92 | 15,000  | 1,030 |
| HP010-1-X23  | Low Angle Face Seal (3/4" - 16)   | 2.58             | 65.53 | 1.06  | 26.92 | 20,000  | 1,380 |

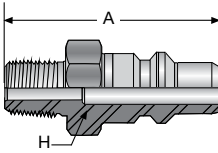
Construction: Alloy steel



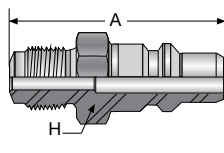
HP010-1-A12  
HP010-1-A16



HP010-1-LM9  
HP010-1-LM12



HP010-1-NMD



HP010-1-X23




**WARNING**

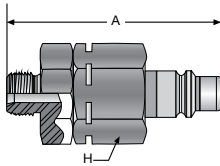
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# Rogan Series Quick Couplings

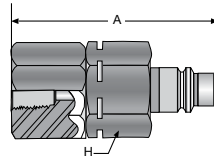
## HP010 Nipple w/ Check Valve

| Part Number<br># | Thread Type<br> | A<br>Overall Length |        | H<br>Hex |       | Maximum Working Pressure |       |
|------------------|--|---------------------|--------|----------|-------|--------------------------|-------|
|                  |  | inch                | mm     | inch     | mm    | psi                      | bar   |
| HP010-2-A12      | Type "M" (3/4" - 16)   | 4.00                | 101.60 | 1.62     | 41.15 | 20,000                   | 1,380 |
| HP010-2-A16      | Type "M" (1" - 12)   | 4.08                | 103.63 | 1.62     | 41.15 | 20,000                   | 1,380 |
| HP010-2-NFD      | 1/2" NPT Female  | 4.14                | 105.16 | 1.62     | 41.15 | 15,000                   | 1,030 |
| HP010-2-NMD      | 1/2" NPT Male  | 4.13                | 104.90 | 1.62     | 41.15 | 15,000                   | 1,030 |
| HP010-2-X23      | Low Angle Face Seal (3/4" - 16)  | 4.18                | 106.17 | 1.62     | 41.15 | 20,000                   | 1,380 |

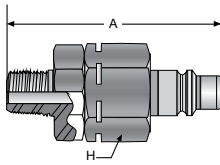
Construction: Alloy steel



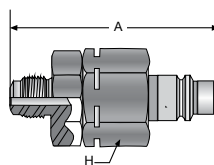
HP010-2-A12  
HP010-2-A16



HP010-2-NFD



HP010-2-NMD



HP010-2-X23



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# C Series Quick Couplings



## Features:

- Working pressures up to 29,000 psi
- Non-drip valving for clean, safe, trouble-free performance and minimal air inclusion
- Built-in safety locking device to prevent accidental disconnect
- Wide range of threaded styles: NPT, BSP and "High Pressure"
- Adapters for ease of connection to high pressure hoses and fixed ports
- Thread sizes from 1/8" to 3/8"
- Protective dust caps are included to prevent damage and fluid contamination in disconnected position
- Rugged design and construction for long life in demanding applications

## Applications:

- Torque Tensioning
- Stud Tensioning
- Rescue
- Bearing Pullers
- Intensifiers
- Hydrostatic Testing
- Pumps
- Jacks
- Spreaders
- Cable Cutters
- Nut Splitters
- Pipe Coupling Swagers
- Presses
- Clamping Fixtures
- Crimpers
- Blow-out Preventors

| Type         | Max. Working Pressure (psi) | Test Pressure (psi) | Nominal Thru Hold Diameter (in) |
|--------------|-----------------------------|---------------------|---------------------------------|
| C Series 115 | 14,500                      | 21,800              | 0.11                            |
| C Series 116 | 21,800                      | 29,200              | 0.11                            |
| C Series 125 | 29,800                      | 36,300              | 0.11                            |

**Note:** The choice of the threaded end form may limit the working pressure and the size of the thru hole in the coupling. Call **polyflex** for additional information.






### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

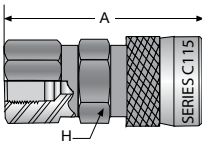
For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# C Series Quick Couplings

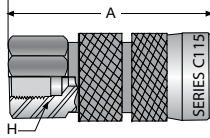
## 115 Coupler

| Part Number  | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|-------|---|-------|---|-------|
|              |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #            |  |                  |       |  |       |  |       |
| C10-115-1202 | 1/4" BSP Female (thru type)   | 2.30             | 58.42 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-1222 | 1/4" BSP Female (with built-in locking device)                                    | 2.30             | 58.42 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-1401 | 1/8" NPT Female   | 2.30             | 58.42 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-1402 | 1/4" NPT Female   | 2.30             | 58.42 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-1404 | 3/8" NPT Female   | 2.38             | 60.45 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-1422 | 1/4" NPT Female (with built-in locking device)                                    | 2.30             | 58.42 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-1452 | 1/4" NPT Male   | 2.45             | 62.23 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-1454 | 3/8" NPT Male   | 2.45             | 62.23 | 0.94  | 23.88 | 14,500  | 1,000 |

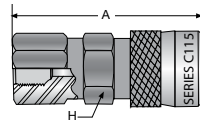
Construction: All exposed components are made of zinc-plated steel.



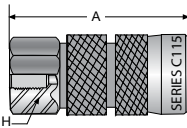
C10-115-1202



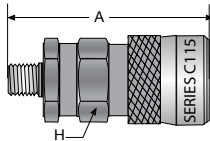
C10-115-1222



C10-115-1401  
C10-115-1402  
C10-115-1404



C10-115-1422



C10-115-1452  
C10-115-1454






**WARNING**

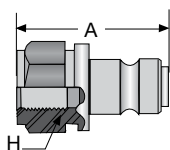
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# C Series Quick Couplings

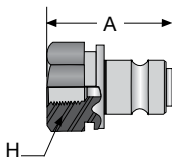
## 115 Nipple

| Part Number  | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|-------|---|-------|---|-------|
|              |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #            |  |                  |       |  |       |  |       |
| C10-115-6202 | 1/4" BSP Female   | 1.47             | 37.34 | 0.87  | 22.10 | 14,500  | 1,000 |
| C10-115-6204 | 3/8" BSP Female   | 1.56             | 39.62 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-6401 | 1/8" NPT Female   | 1.42             | 36.07 | 0.87  | 22.10 | 14,500  | 1,000 |
| C10-115-6402 | 1/4" NPT Female   | 1.42             | 36.07 | 0.87  | 22.10 | 14,500  | 1,000 |
| C10-115-6404 | 3/8" NPT Female   | 1.46             | 37.08 | 0.94  | 23.88 | 14,500  | 1,000 |
| C10-115-6452 | 1/4" NPT Male   | 2.40             | 60.96 | 0.87  | 22.10 | 14,500  | 1,000 |
| C10-115-6454 | 3/8" NPT Male   | 2.55             | 64.77 | 0.94  | 23.88 | 14,500  | 1,000 |

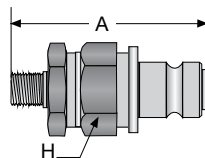
Construction: All exposed components are made of zinc-plated steel.



C10-115-6202  
C10-115-6204



C10-115-6401  
C10-115-6402  
C10-115-6404



C10-115-6452  
C10-115-6454






**WARNING**

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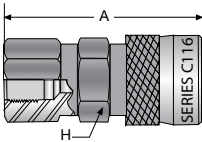


# C Series Quick Couplings

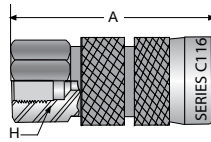
## 116 Coupler

| Part Number  | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|-------|---|-------|---|-------|
|              |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #            |  |                  |       |  |       |  |       |
| C10-116-1202 | 1/4" BSP Female   | 2.30             | 58.42 | 0.94  | 23.88 | 21,750  | 1,500 |
| C10-116-1222 | 1/4" BSP Female (with built-in locking device)                                    | 2.30             | 58.42 | 0.94  | 23.88 | 21,750  | 1,500 |
| C10-116-1402 | 1/4" NPT Female   | 2.30             | 58.42 | 0.94  | 23.88 | 15,000  | 1,035 |
| C10-116-1422 | 1/4" NPT Female (with built-in locking device)                                    | 2.30             | 58.42 | 0.94  | 23.88 | 15,000  | 1,035 |

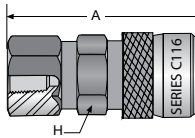
Construction: All exposed components are made of zinc-plated steel.



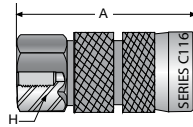
C10-116-1202



C10-116-1222



C10-116-1422



C10-116-1402






### WARNING

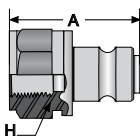
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# C Series Quick Couplings

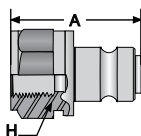
## 116 Nipple

| Part Number  | Thread Type   | A<br>Overall Length |       | H<br>Hex  |   | Maximum Working Pressure |       |
|--------------|---|---------------------|-------|---|---|--------------------------|-------|
|              |   | inch                | mm    | inch  | mm  | psi                      | bar   |
| #            |  |                     |       |  |  |                          |       |
| C10-116-5202 | 1/4" BSP Female (thru type)   | 1.47                | 37.34 | 0.87  | 22.10   | 21,750                   | 1,500 |
| C10-116-6202 | 1/4" BSP Female   | 1.47                | 37.34 | 0.87  | 22.10   | 21,750                   | 1,500 |
| C10-116-6402 | 1/4" NPT Female   | 1.41                | 35.81 | 0.87  | 22.10   | 15,000                   | 1,035 |

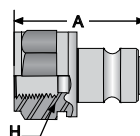
Construction: All exposed components are made of zinc-plated steel.



C10-116-5202



C10-116-6202



C10-116-6402






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

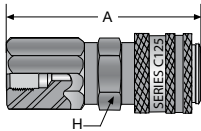
Parker Hannifin Corporation | Parflex Division | Stafford, TX | [parker.com/ptd](http://parker.com/ptd)

# C Series Quick Couplings

## 125 Coupler




| Part Number  | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|-------|---|-------|---|-------|
|              |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #            |  |                  |       |  |       |  |       |
| C10-125-1202 | 1/4" BSP Female   | 2.65             | 67.31 | 0.94  | 23.88 | 29,000  | 2,000 |

Construction: All exposed components are made of zinc-plated steel.

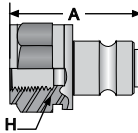
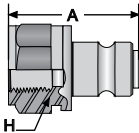


C10-116-5202 Coupler

## 125 Nipple

| Part Number  | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|-------|---|-------|---|-------|
|              |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #            |  |                  |       |  |       |  |       |
| C10-125-5202 | 1/4" BSP Female (thru type)   | 1.50             | 38.10 | 0.87  | 22.10 | 29,000  | 2,000 |
| C10-125-6202 | 1/4" BSP Female   | 1.50             | 38.10 | 0.87  | 22.10 | 29,000  | 2,000 |

Construction: All exposed components are made of zinc-plated steel.



C10-116-5202 Nipple    C10-125-6202 Nipple






**WARNING**

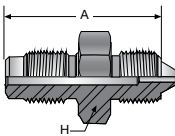
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# C Series Quick Couplings

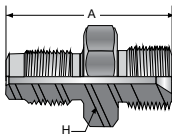
## Quick Coupling Adapters

| Part Number  | Thread Type   | A Overall Length |       | H Hex   |       | Maximum Working Pressure  |       |
|--------------|---|------------------|-------|---|-------|---|-------|
|              |   | inch             | mm    | inch  | mm    | psi   | bar   |
| #            |  |                  |       |  |       |  |       |
| C09-125-1680 | 1/4" BSP 120° external cone x 1/4" HP Male  | 1.72             | 43.69 | 0.67  | 17.02 | 29,000  | 2,000 |
| C19-950-0029 | 1/4" BSP 120° external cone x 9/16" UNF   | 1.48             | 37.59 | 0.67  | 17.02 | 29,000  | 2,000 |
| C19-950-0062 | 1/4" Rubber Metal Seal  | 0.08             | 2.03  | 0.81  | 20.57 | 14,500  | 1,000 |
| C19-950-0064 | 3/8" Rubber Metal Seal  | 0.08             | 2.03  | 0.94  | 23.88 | 14,500  | 1,000 |
| C19-950-1600 | 1/4" BSP 120° external cone Blind Plug  | 1.07             | 27.18 | 0.67  | 17.02 | 29,000  | 2,000 |
| C19-950-1601 | 1/4" BSP x 1/4" BSP 120° external cones   | 1.76             | 44.70 | 0.08  | 2.03  | 29,000  | 2,000 |
| C19-950-1602 | 1/4" BSP 120° external cone x 1/4" BSP 60° internal cone                          | 1.54             | 39.12 | 0.83  | 21.08 | 29,000  | 2,000 |
| C19-950-1622 | 1/4" BSP x 1/4" BSP with 60° internal cone  | 1.25             | 31.75 | 0.83  | 21.08 | 29,000  | 2,000 |
| C19-950-1623 | 1/4" NPT Male x 1/4" BSP with 60° internal cone                                   | 1.27             | 32.26 | 0.83  | 21.08 | 14,500  | 1,000 |
| C19-950-1680 | Porting Block   | 1.8              | 45.72 | N/A   | N/A   | 29,000  | 2,000 |
| HAHM4BM4     | 1/4" BSP with 60° internal cone x 1/4" HP Male                                    | 1.47             | 37.34 | 0.83  | 21.08 | 30,000  | 2,070 |

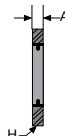
Construction: All C19 part numbers are manufactured with black zinc-plated steel.



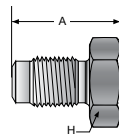
C09-125-1680



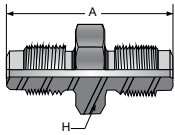
C19-950-0029



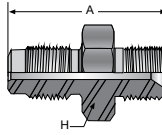
C19-950-0062  
C19-950-0064



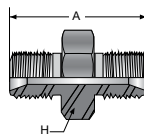
C19-950-1600



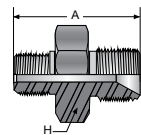
C19-950-1601



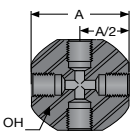
C19-950-1602



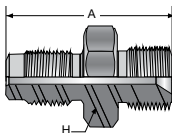
C19-950-1622



C19-950-1623



C19-950-1680



HAHM4BM4



**WARNING**

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# Accessories



Heavy Duty Abrasion  
Covers

Spring Guards

Containment and  
Support Grips

Bend Restrictors

Pressure Containment  
Shields

Anti-Gall Lubricant

Dies



# Table of Contents

## Accessories

|  |     |
|--|-----|
| Anti-Gall Lubricant.....               | E-5 |
| Bend Restrictors.....                  | E-3 |
| Containment Grips .....                | E-4 |
| Dies .....                             | E-5 |
| Heavy Duty Abrasion Cover .....        | E-3 |
| Heavy Duty Abrasion Cover Sleeves..... | E-3 |
| Pressure Containment Shield.....       | E-4 |
| Spring Guards .....                    | E-3 |
| Support Grips.....                     | E-4 |
| Warning Tags.....                      | E-5 |

# Accessories



## Heavy Duty Abrasion Cover and Cover Sleeves

| Part Number    | Size I.D. (inch) | Size O.D. (inch) | Material    | Reinforcement    | Bend Radius (inch) | Weight (lbs/ft) | Cover Sleeves                             | Cover Sleeve Material    |
|----------------|------------------|------------------|-------------|------------------|--------------------|-----------------|---|--------------------------|
| MHDC010        | 5/8              | 0.820            | Clear Vinyl | Fiber Braid      | 3.0                | 0.15            | 508-J-500-10                              | Carbon Steel             |
| MHDC012        | 3/4              | 0.938            | Clear Vinyl | White PVC Helix  | 3.0                | 0.20            | 510-A-500-12                              | Aluminum                 |
| MHDC016        | 1                | 1.250            | Clear Vinyl | White PVC Helix  | 3.0                | 0.27            | 216-200-18                                | Carbon Steel             |
| MHDC018        | 1-1/8            | 1.350            | Clear Vinyl | White PVC Helix  | 3.5                | 0.29            | 216-200-18<br>620-100-18<br>(w/ 2640N-08) | Carbon Steel<br>Aluminum |
| MHDC024        | 1-1/2            | 1.825            | Clear Vinyl | White PVC Helix  | 4.0                | 0.40            | 220-200-22                                | Carbon Steel             |
| MHDC026        | 1-5/8            | 1.905            | Clear Vinyl | White PVC Helix  | 4.0                | 0.52            | 520-A-500-26                              | Aluminum                 |
| PVC-BLUE-012   | 3/4              | 0.938            | Clear Vinyl | Blue PVC Helix   | 3.0                | 0.20            | 510-A-500-12                              | Aluminum                 |
| PVC-BLUE-018   | 1-1/8            | 1.375            | Clear Vinyl | Blue PVC Helix   | 3.0                | 0.29            | 216-200-18                                | Carbon Steel             |
| PVC-BLUE-024   | 1-1/2            | 1.780            | Clear Vinyl | Blue PVC Helix   | 5.0                | 0.40            | 220-200-22                                | Carbon Steel             |
| PVC-ORANGE-012 | 3/4              | 0.938            | Clear Vinyl | Orange PVC Helix | 3.0                | 0.20            | 510-A-500-12                              | Aluminum                 |
| PVC-ORANGE-016 | 1                | 1.250            | Clear Vinyl | Orange PVC Helix | 3.0                | 0.27            | 412-400                                   | Carbon Steel             |

## Spring Guards

| Part Number | Size (I.D.) | Size (O.D.) | Length (in) | Material        | Designated Hose Series |
|-------------|-------------|-------------|-------------|-----------------|------------------------|
| MSG060      | 0.61        | 0.77        | 300.00      | Stainless Steel | 2440N-04               |
| MSG2106     | 0.63        | 0.89        | 7.87        | Carbon Steel    | 2380N-04               |
| MSG4125     | 1.21        | 1.65        | 18.00       | Stainless Steel | 2440N-16               |



## Bend Restrictors

| Part Number | I.D. (inch) | O.D. (inch) | Length (inch) | Material           |
|-------------|-------------|-------------|---------------|--------------------|
| MBR003      | 0.250"      | 0.515"      | 2.33          | Molded Vinyl       |
| MBR004      | 0.250"      | 0.490"      | 2.16          | Molded Vinyl       |
| MBR008      | 0.500"      | 0.800"      | 6.00          | Molded Vinyl       |
| MBR010      | 0.625"      | 0.925"      | 6.00          | Molded Vinyl       |
| MBR012      | 0.770"      | 1.070"      | 6.00          | Molded Vinyl       |
| MBR013-BLK  | 0.845"      | 1.100"      | 9.84          | Molded Rigid Vinyl |



### WARNING

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# Accessories



## Containment Grips

| Part Number  | Loop Size (inch) | Overall Length (inch) | Material         | Breaking Strength (lbs) | Hose Size (O.D.)            | Weight (lbs) |
|--------------|------------------|-----------------------|------------------|-------------------------|-----------------------------|--------------|
| MCG001SS     | 1                | 25.5                  | Stainless Steel  | 2,900                   | 0.38" - 0.69"               | 0.55         |
| MCG002SS     | 2                | 37.5                  | Stainless Steel  | 9,400                   | 1.00" - 1.56"               | 2.20         |
| MCG003SS     | 1.26             | 65                    | Stainless Steel  | 14,400                  | 1.25" - 1.94"               | 6.50         |
| MCGHS10-15   | 0.71             | 26.18                 | Galvanized Steel | 2,293                   | 0.40" - 0.59"               | 0.15         |
| MCGHS15-20   | 0.71             | 27.17                 | Galvanized Steel | 2,900                   | 0.59" - 0.79"               | 0.33         |
| MCGHS20-30   | 0.71             | 26.97                 | Galvanized Steel | 5,463                   | 0.79" - 1.18"               | 0.40         |
| MCGHS30-40   | 0.71             | 27.56                 | Galvanized Steel | 7,891                   | 1.18" - 1.57"               | 0.68         |
| MCGHS40-50   | 0.71             | 28.54                 | Galvanized Steel | 10,791                  | 1.57" - 1.96"               | 1.04         |
| MCGHS50-60   | 0.71             | 33.46                 | Galvanized Steel | 10,791                  | 1.96" - 2.36"               | 1.81         |
| MCGHS3295-SS | 4.50             | 81.50                 | Stainless Steel  | 49,000                  | 1-1/2" and 2" (Black Eagle) | 9.5          |



## Support Grips

| Part Number  | Loop Size (inch) | Overall Length (inch) | Material            | Breaking Strength (lbs) | Hose Size (O.D.) | Weight (lbs) |
|--------------|------------------|-----------------------|---------------------|-------------------------|------------------|--------------|
| MK022-03-038 | 4                | 9                     | Tin - Coated Bronze | 750                     | 0.63" - 0.74"    | 0.50         |
| MK022-03-039 | 4                | 10                    | Tin - Coated Bronze | 950                     | 0.75" - 0.99"    | 0.25         |
| MK022-03-041 | 5                | 12                    | Tin - Coated Bronze | 1,500                   | 1.00" - 1.24"    | 0.35         |
| MK022-03-042 | 5                | 14                    | Tin - Coated Bronze | 1,500                   | 1.25" - 1.49"    | 0.40         |
| MK022-03-043 | 5                | 15                    | Tin - Coated Bronze | 1,500                   | 1.50" - 1.74"    | 0.45         |
| MK022-03-045 | 9                | 19                    | Tin - Coated Bronze | 3,100                   | 2.25" - 2.49"    | 1.25         |

## Pressure Containment Shield



| Part Number | I.D. (inch) | O.D. (inch) | Retaining Sleeve | Stiffener                       | Material | Bend Radius (in) | Weight (lbs/ft) | Designated Hose Series |
|-------------|-------------|-------------|------------------|---------------------------------|----------|------------------|-----------------|------------------------|
| MHBS012     | 0.75        | 1.09        | 412-400          | M55STIF-4, M55STIF-5, M55STIF-6 | Rubber   | 9.5              | 0.42            | 2740D-03 and 2840D-03  |
| MHBS016     | 1.00        | 1.41        | 416-400-16       | N/A                             | Rubber   | 12.0             | 0.63            | 2740D-05 and 2840D-05  |

NOTE: Any assembly sold at a design factor lower than 2.5:1 requires the addition of a pressure containment shield, excluding 2849D.



### WARNING


This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



## Accessories

### Dies



| Part Number          | Description           | Fitting Series  |
|----------------------|-----------------------|---|
| #                    |                       |  |
| 80C-HP3              | Dies for HP3 Fittings | HP  |
| 80C-HP4              | Dies for HP4 Fittings | HP  |
| 80C-HP6              | Dies for HP6 Fittings | HP  |
| 80C-G03              | Dies for HP3 Guards   | N/A   |
| 80C-G04              | Dies for HP4 Guards   | N/A   |
| 80C-G06              | Dies for HP6 Guards   | N/A   |
| 83C-8X16<br>83C-9X16 | 2380N-16              | 8X<br>E4  |
| 83C-9X04             | 2390N-04              | 9X / E3   |
| 80-9X06              | 2390N-06              | 9X  |
| 83C-9X08             | 2390N-08              | 9X / E3   |
| 83C-9X16             | 2390N-16              | 9X / E4   |
| 83C-F08W             | 57CR-08               | CR  |
| 83C-F16W             | 57CR-16               | CR  |

### Warning Tags



| Part Number | Description  |
|-------------|--|
| G214-240    | White - General warning tag should be applied to all hoses |
| G214-245    | Yellow - Warning tag for flex lances                       |

### ThreadMate® Anti-Gall Lubricant



| Part Number   | Description |
|---|-------------|
| #   |             |
| MTM04T  | 4 oz Tube   |
| <p>ThreadMate® is an extreme duty lubricant developed to reduce galling during the assembly of threaded parts:</p> <p>ThreadMate® promotes reliable sealing of pipe threads, even at high pressure, by reducing friction and galling during tightening, resulting in higher contact pressures of the sealing surfaces and better metal-to-metal contact.</p> <p>ThreadMate® reduces the torque needed to make pressure-tight connections and tighten fasteners</p> <p>Shelf life: 2 years from manufacture date</p> |             |



#### WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# General Technical



Recommended  
Practices

Hose Selection,  
Installation, and  
Maintenance

Dash Size Systems  
for Hose and Tubing

Twin/Multi-line  
Separation  
Instructions

Government & Agency  
Approvals

Chemical Resistance  
Charts

Technical Data



# Table of Contents

## Hose Selection, Installation & Maintenance

|  |      |
|--|------|
| Chemical Resistance Table, Typical Waterblast and General Hydraulics .....   | F-10 |
| Chemical Resistance Table, Offshore Hoses .....  | F-26 |
| Engineering Manual (PFDE-ES28): Recommended Practices for Handling, Maintenance and Inspection of Large Bore Hoses and Assemblies Used in Oil & Gas Applications ..... | F-19 |
| Engineering Manual (PFDE-ES29): Technical Matrix for Parker polyflex Offshore Hoses.....   | F-14 |
| Gas Permeability of Plastics.....  | F-8  |
| Hose Dash Sizes .....  | F-4  |
| Hose Installation Tips .....   | F-5  |
| Pressure Drop - Determination of Pressure Drop in the Line .....   | F-7  |
| Recommended Tightening Procedures.....   | F-9  |
| Selection of Hose Diameter from Flow Rate and Velocity.....  | F-6  |
| Selection, Installation and Maintenance of <b>polyflex</b> Hose and Hose Assemblies .....  | F-3  |
| Safety Guide .....   | F-32 |
| Offer of Sale.....   | F-39 |
| Part Number Index.....   | F-41 |

# Selection, Installation & Maintenance of *polyflex* Hose and Hose Assemblies

Hoses and hose assemblies have a finite life span which can be affected by many factors. This recommended practice should be read by designers and users of hose to assist them in the proper selection of hose. These guidelines, while not exhaustive, will assist the user in maintaining hydraulic and pneumatic systems.

## READ THE PARKER SAFETY GUIDE IN ITS ENTIRETY ( F-32)

### PART 1 - How to select hose

- **Pressure** - Maximum operating pressure of the hose must be greater than or equal to the system pressure. Pressure surges or system "spikes" in excess of the maximum operating pressure will shorten hose life and must be avoided.
- **Temperature** - Ambient and fluid temperatures must not exceed the hose/fittings rated design temperature. Attempt to route hose away from or shield hose from high temperature sources.
- **Size** - Adequately size hose and fittings to avoid damaging hose with excessive turbulence, or heat build-up, while maintaining proper flow and pressure. (Refer to fluid velocity nomogram on F-6.)
- **Fluid Compatibility** - Refer to Chemical Resistance Table on F-10 for use of fluids with various materials. If unsure of an application, contact the factory. Additional care must be taken with gaseous applications. (Safety Guide F-32)
- **Environment** - Conditions such as ozone, UV light, harsh chemicals, salt water, and other airborne contaminants can degrade hose and shorten its life.
- **Length** - Hose length changes with pressure. This, along with equipment movement, must be considered in the system design.
- **Proper couplings** - Always follow manufacturers' specifications and do not mix components of different manufacturers.
- **Mechanical loads** - Conditions such as tensile and side loads, vibration, excessive flexing, and twist will reduce hose life. Use swivel fittings and adaptors to avoid hose twisting. Test the hose if the application is potentially problematic or unusual.
- **Electrical conductivity** - Determine if the hose must be non-conductive to prevent electrical current flow or conductive to dissipate static electricity. Choose hose and fittings accordingly. (See Safety Guide for Electrical Conductivity issues.)

### PART 2 - Installation & Maintenance

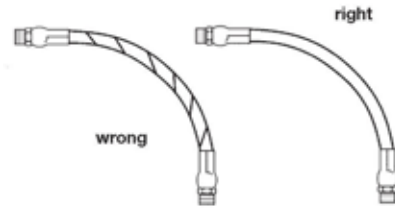
- **Inspect components** - Check hose for cover cracks, blisters, cleanliness, kinks, cracks or core tube obstructions or other defects. Examine fittings for poor threads, obstructions, cracks, rust. Do not use hose or fittings if these problems exist.
- **Assemble per instructions** - Instructions are available for companies, trained and authorized by Polyflex.
- **Do not exceed specified minimum bend radius** - Use stress relievers to prevent sharp bends at the hose and fitting juncture. These can be spring guards or other stress relieving members.
- **Ensure that hose bends rather than twists with equipment motion.**
- **Use a torque wrench or the flats from finger tight method to properly install port connections.**
- **After installation, eliminate air entrapped in system, pressurize to maximum operating pressure, and check for leaks and proper system function.**
- **After installation, periodically (frequency depends on severity of application and potential risk) inspect the system for the following:**
  1. Blistered, degraded, or loose hose covers
  2. Stiff, cracked, or charred hose
  3. Cuts or abrasion of hose — look for exposed reinforcement
  4. Leaks in hose or fittings
  5. Damaged or corroded fittings
  6. Excessive build up of dirt, grease, oils, etc.
  7. Defective or broken accessories (clamping devices, kink guards)
  8. Kinks in hoses
- Upon discovery of any of these items, replace it, repair it, but **DO NOT IGNORE IT!**
- Retest the system after all maintenance procedures.
- Establish replacement schedules based on previous service life, or when failures could result in damage, personal injury, or excessive/unacceptable downtime.

## Hose Dash Sizes

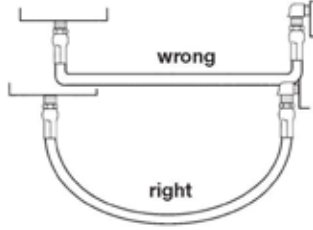
Dash sizes are commonly used to designate hose I.D., plastic tubing and metal tubing O.D. and coupling size. Dash size systems in common use:

| Nominal Hose I.D. or Tubing O.D. |            | Dash number for all <i>polyflex</i> hose | Nominal DN Size |
|----------------------------------|------------|--|-----------------|
| Inch                             | Millimeter |  |                 |
| 3/32                             | 2.0        | -012                                     | 2               |
| 1/8                              | 3.2        | -2                                       | 3               |
| 5/32                             | 4.0        | -025 or 2A                               | 4               |
| 3/16                             | 4.8        | -3                                       | 5               |
| 1/4                              | 6.3        | -4                                       | 6               |
| 5/16                             | 7.9        | -5                                       | 8               |
| 3/8                              | 9.5        | -6                                       | 10              |
| 13/32                            | 10.3       | -6.5                                     | —               |
| 1/2                              | 12.7       | -8                                       | 12              |
| 5/8                              | 15.9       | -10                                      | 16              |
| 3/4                              | 19.1       | -12                                      | 20              |
| 7/8                              | 22.2       | -14                                      | —               |
| 1                                | 25.4       | -16                                      | 25              |
| 1-1/8                            | 28.6       | —  | —               |
| 1-1/4                            | 31.8       | -20                                      | 32              |
| 1-3/8                            | 34.9       | —  | —               |
| 1-1/2                            | 38.1       | -24                                      | 40              |
| 1-13/16                          | 46.0       | —  | —               |
| 2                                | 50.8       | -32                                      | 50              |

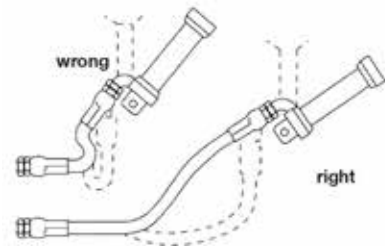
# Hose Installation Tips



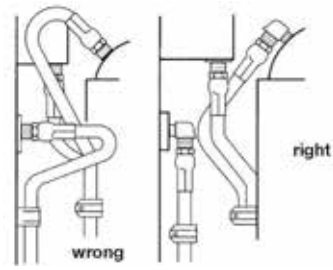
Hose is weakened when installed in twisted position. Also, pressure pulses in twisted hose tend to fatigue wire and loosen fitting connections. Design so that the machine motion produces bending rather than torsion.



Hose should exit coupling in a straight position rather than side loaded. The minimum bend radius must not be exceeded to avoid kinking of hose and flow restriction.

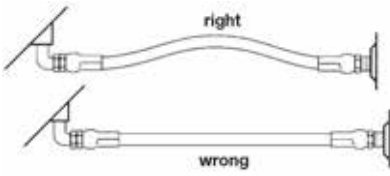


When hose assembly is installed in a flexing applications, remember that metal hose fittings are not part of the flexible portion.

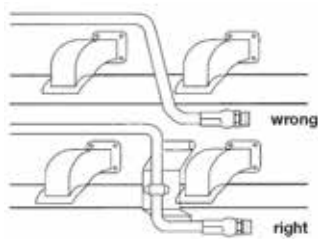


Use elbow or adapters as necessary to eliminate excess hose length and to ensure neater installation and easier maintenance.

Free hose length allowance:



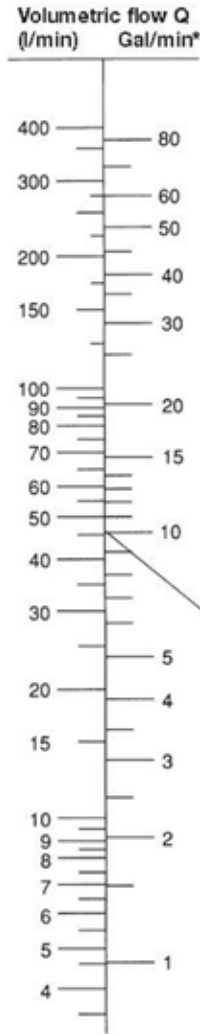
Pressure can change hose in length by as much as  $\pm 2\%$ . This must be considered when cutting hose to appropriate length.



Avoid installing hose assemblies close to heat sources. However, if this should be required, insulate hose.

# Selection of Hose Diameter from Flow Rate and Velocity

Flow capacities of Parker hose at recommended flow velocities  
The chart below is provided as an aid in the determination of the correct hose size.

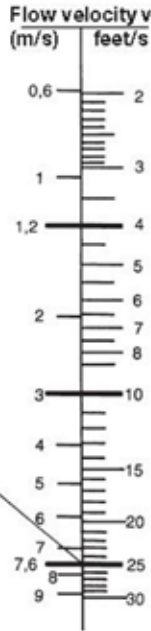


Example:  
At 10 gallons per minute in the left-hand column and 25 feet per second in the right-hand column (the maximum recommended velocity range for pressure lines). Lay a straight line across these two points. The inside diameter shown in the center column is above -6 so we have to use -8 (1/2").

For suction hose, follow the same procedure except use recommended velocity range for suction lines in the right-hand column.

Where: Q = flow in gallons per minute (gal/min & l/min)  
V = velocity in feet per second (f/s & m/s)  
d = hose inside diameter (mm & dash size)

| Hose inner diameter d |            |
|-----------------------|------------|
| mm                    | dash sizes |
| 50,8                  | -32        |
| 38,1                  | -24        |
| 31,8                  | -20        |
| 25,4                  | -16        |
| 19,1                  | -12        |
| 15,9                  | -10        |
| 12,7                  | -8         |
| 9,5                   | -6         |
| 7,9                   | -5         |
| 6,3                   | -4         |
| 4,8                   | -3         |



Recommended maximum velocity for suction lines

Recommended maximum velocity for return lines

Recommended maximum velocity for pressure lines

\*gallons are UK gallons  
Conversion factors:  
gal/min x 4.546 = l/min  
feet/s x 0.3948 = m/s

\*Recommended velocities are according to hydraulic fluids of maximum viscosity 315 S.S.U. at 38°C working at room temperature within 18°C and 68°C



# Pressure Drop - Determination of Pressure Drop in the Line

**Velocity:** 
$$v = .409 \frac{Q}{d^2} = .509 \frac{W}{pd^2} = \frac{q}{.785d^2}$$

**Reynold's Number:** 
$$Re = 124 \frac{dvp}{\mu} = 6.31 \frac{W}{d\mu} = 378 \frac{qp}{d\mu}$$

Pressure Drop, Isothermal, Incompressible Flow (Liquids):

$$\Delta P = .001294 \frac{fL p v^2}{d} = .00000336 \frac{fLW^2}{pd^5} = .0121 \frac{fL q^2}{d^5}$$

Pressure Drop, Isothermal, Compressible, long Lines (Gases and Vapors):

$$\frac{\Delta P}{P_1} = 1 - \sqrt{1 - \frac{fL p_1 v^2}{12 g d P_1}}$$

## Symbols and Units for Listed Formulas

- d** = Inside diameter of hose, inches
- f** = Friction coefficient, dimensionless
- g** = Gravitational constant, 32.2 ft/sec<sup>2</sup>
- P<sub>1</sub>** = Input pressure, psi
- ΔP** = Pressure difference, psi
- q** = Rate of flow at flowing condition, cu. ft/min
- Q** = Rate of flow, gals/min
- Re** = Reynolds number, dimensionless
- v** = Flow velocity, ft/sec
- W** = Rate of flow, lbs/hr
- p** = Weight density of fluid, lbs/cu. ft
- μ** = Absolute (dynamic) viscosity, centipoises

# Gas Permeability of Plastics

## Permeability Coefficient

$$\text{Permeability Coefficient} = \frac{V}{A \times T \times p}$$

Where: V is the volume of gas, in cm<sup>3</sup>, which diffuses through a 1mm thickness  
 A is the area across which the gas diffuses, in m<sup>2</sup>.  
 T is the diffusion time, in days.  
 p is the pressure difference across the plastic, in bar

### Permeability Coefficients per DIN 53380

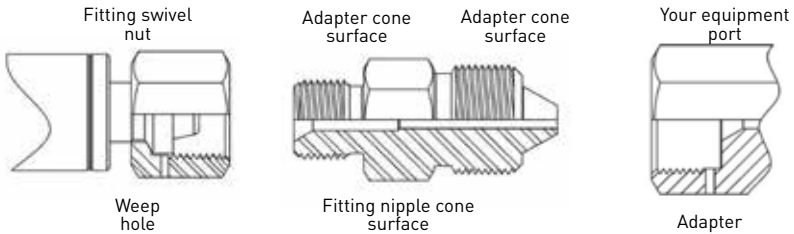
| Material      | Gas            |                |                 |                |       |
|---------------|----------------|----------------|-----------------|----------------|-------|
|               | N <sub>2</sub> | O <sub>2</sub> | CO <sub>2</sub> | H <sub>2</sub> | He    |
| PTFE          | 50             | 150            | 1,500           | —              | 3,500 |
| PVDF          | 3              | 2              | 10              | —              | 60    |
| PA-6 XE 3289  | 1              | 4              | 10              | 100*           | 60*   |
| PA-6 A 28 NZ  | 0.5            | 2              | 5               | 50*            | 30*   |
| PA-12 L 2124  | —              | 30             | 180             | 210            | 160   |
| PA-12 P40 TL  | —              | —              | 105             | —              | —     |
| PA-12 L 25W40 | 8              | 35             | 150             | 1,000*         | 500*  |
| PA-12 L 2140  | —              | 12             | 71              | —              | 130   |
| PA-11 P 40 TL | —              | —              | 55              | 130            | —     |
| PA-11 POTL    | 2              | 20             | 65              | 65             | —     |
| POM H 2320    | 5              | 10             | 130             | 35             | 40    |
| POM 150 SA    | 2              | 4              | 20              | —              | —     |
| PEE 4055      | 150            | —              | 3,000           | —              | 1,400 |
| PEE 5556      | 120            | —              | 1,600           | —              | 900   |
| PEE 7246      | —              | —              | —               | —              | 300   |

\* Calculated value. Diffusion constants based on normal room temperature. Actual behavior may vary considerably because of variations in processing the plastic.

# Recommended Tightening Procedures

| Connection             | Thread Sizes | Tightening Torque |     |
|------------------------|--------------|-------------------|-----|
|                        |              | ft•lb             | N•m |
| <b>High Pressure</b>   |              |                   |     |
| 1/4"                   | 9/16" - 18   | 25                | 34  |
| 3/8"                   | 3/4" - 16    | 50                | 69  |
| 9/16"                  | 1-1/8" - 12  | 75                | 103 |
| <b>Medium Pressure</b> |              |                   |     |
| 1/4"                   | 7/16" - 20   | 20                | 28  |
| 3/8"                   | 9/16" - 18   | 30                | 41  |
| 9/16"                  | 13/16" - 16  | 85                | 117 |
| 3/4"                   | 3/4" NPSM    | 90                | 124 |
| 1"                     | 1-3/8" - 12  | 125               | 173 |

| Connection             | Thread Sizes | Tightening Torque |         |
|------------------------|--------------|-------------------|---------|
|                        |              | ft•lb             | N•m     |
| <b>Type "M" Swivel</b> |              |                   |         |
| A9                     | 9/16" - 18   | 25-30             | 34-41   |
| A12                    | 3/4" - 16    | 40-50             | 55-69   |
| A14                    | 7/8" - 14    | 50-60             | 69-83   |
| A16                    | 1" - 12      | 75-85             | 103-117 |
| A21                    | 1-5/16" - 12 | 100-120           | 138-166 |
| <b>JIC</b>             |              |                   |         |
| 1/4"                   | 7/16" - 20   | 11-12             | 15-16   |
| 3/8"                   | 9/16" - 18   | 18-21             | 25-28   |
| 1/2"                   | 3/4" - 16    | 36-39             | 49-52   |
| 3/4"                   | 1-1/16" - 12 | 80-88             | 109-119 |
| 1"                     | 1-5/16" - 12 | 100-108           | 136-146 |



## Leakage at swivel nut-to-adapter Joint

(Seen by leak at weep hole in swivel nut)

1. Reduce system pressure to zero
2. Unscrew swivel nut and check cone surfaces of adapter and hose insert
3. If hose insert is damaged, return hose to **polyflex** for repair and retest
4. If cone surfaces look good after cleaning, re-tighten swivel nut. Do not exceed 150% of recommended torque.

## Leakage at type "M" adapter-to-port

(Seen by leak at weep hole in pressure port, or leak at threads for NPT adapters.)

1. Reduce system pressure to zero
2. Slacken hose swivel nut
3. Tighten adapter into port
4. Re-tighten swivel nut

Never use the swivel nut to tighten the adapter into the port.

# General Chemical Resistance Table

## Typical Waterblast and General Hydraulics

### 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.

### Materials Code for Hose Core Tubes

- N Polyamide
- M Coextruded tube with Fluoropolymer inner liner
- POM Polyoxymethylene

For offshore  
oil and gas hoses,  
see page F-26

### Materials Code for Hose Cover

- N Polyamide
- U/HF Polyurethane

### Notes on the Chemical Resistance Table

- The fluid resistance tables are simplified rating tabulations based on immersion tests at 24°C. Higher temperatures tend to reduce ratings. Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin, no performance guarantee is expressed or implied. The indications do not imply any compliance with standards and regulations and do not refer to possible changes of color, taste or smell. For food and drinking water specially approved materials have to be used. For fluids not listed or for advice on particular applications, please consult Parker Hannifin GmbH, **polyflex** Division in Hüttenfeld, Germany.
- Hose applications for these fluids must take into account legal and insurance regulations. The chemical resistance indicated does not express or imply approval by certain institutions.
- Satisfactory at some concentrations and temperatures, unsatisfactory at others.
- For gas applications, the cover should be pin-pricked and the pressure must not be released quickly. Special safety guard accessories are to be used to prevent damage or personal injury in the event of failure.
- Chemical resistance does not imply low permeation rates. Please consult Parker Hannifin for a recommendation for your specific requirements.
- The indication of chemical resistance does not imply any special food compatibility; it refers only to the chemical resistance of the material.
- Chemical resistance does not imply acceptability for use in airless paintspray applications. These applications require a special, electrically conductive hose. Reference the Safety Guide, 2.1.2

Not all remarks may apply to Oil & Gas products

# General Chemical Resistance Table

## Typical Waterblast and General Hydraulics

| Chemical                            | POM | N | U | M |
|-------------------------------------|-----|---|---|---|
| Acetone                             | L   | G | P | L |
| Acetylene                           | —   | — | — | — |
| Air (4)                             | G   | G | G | G |
| Ammonium Chloride                   | —   | P | G | G |
| Ammonium Hydroxyde                  | —   | G | P | G |
| Anhydrous Ammonia                   | —   | P | P | — |
| Aniline                             | —   | P | P | G |
| Aromatic Hydrocarbons               | —   | G | L | — |
| Asphalt                             | —   | G | G | L |
| Benzene                             | —   | G | L | G |
| Butane (2) (4)                      | —   | G | L | — |
| Calcium Chloride                    | —   | — | G | G |
| Carbon Dioxide (4)                  | —   | G | G | — |
| Carbon Monoxide (4)                 | —   | — | G | — |
| Carbon Tetrachloride                | —   | G | P | G |
| Chlorinated Hydrocarbon Base Fluids | —   | G | L | — |
| Chlorinated Petroleum Oil           | —   | G | L | — |
| Chlorinated Solvents                | —   | — | P | — |
| Chlorine, Gaseous, Dry              | —   | P | P | — |
| Chromic Acid                        | —   | — | P | L |
| Citric Acid Solutions               | —   | G | L | G |
| Crude Petroleum Oil                 | G   | G | G | — |
| Cyclohexan (2)                      | —   | G | G | G |
| Diesel Fuel (2)                     | G   | G | G | — |
| Diester Oils                        | —   | G | P | — |
| Ethanol (6)                         | G   | G | L | — |
| Ethers                              | P   | G | P | G |
| Ethylene Glycol                     | G   | G | L | G |
| Ethylene Oxide                      | —   | G | L | — |
| Fatty Acids                         | —   | G | — | G |
| Formaldehyde                        | —   | L | P | G |
| Formic Acid J                       | —   | P | P | G |
| Fuel Oil (2)                        | G   | G | L | G |
| Gas [Oil] (2)                       | —   | G | G | — |
| Gasoline                            | —   | G | — | G |
| Glycerine                           | —   | G | L | G |
| Glycols (to 135°F)                  | G   | G | L | G |
| Grease (petroleum base)             | G   | G | G | — |

See page F-10 for instructions on using this chart

Hose  
**A**  
 Fittings  
**B**  
 Adapters & Valves  
**C**  
 Quick Couplings  
**D**  
 Accessories  
**E**  
**F** General Technical

# General Chemical Resistance Table

## Typical Waterblast and General Hydraulics

| Chemical                                      | POM | N | U | M |
|---|-----|---|---|---|
| Hexane [2]                                    | —   | G | G | G |
| Hydraulic Fluid (petroleum base)              | G   | G | G | L |
| Hydraulic Fluid (phosphate ester base)        | —   | G | L | — |
| Hydraulic Fluid (water base)                  | —   | G | G | — |
| Hydraulic Oil (petroleum base)                | G   | G | G | L |
| Hydrochloric Acid                             | —   | L | P | G |
| Hydrofluoric Acid                             | —   | P | P | G |
| Hydrolube (hydraulic fluid/water glycol base) | —   | G | L | — |
| IRUS 902 (hydraulic fluid/water-oil emulsion) | —   | G | G | — |
| Isooctane [2]                                 | —   | G | G | G |
| Kerosene [2]                                  | —   | G | L | G |
| Ketones                                       | —   | G | P | G |
| Lime (calcium oxide)                          | —   | G | G | G |
| Lindol (hydraulic fluid/phosphate esters)     | —   | G | P | — |
| LP-Gas  | —   | — | — | — |
| Lubricating Oils (diester base)               | —   | G | P | — |
| Lubricating Oils (petroleum base)             | G   | G | G | G |
| Methane                                       | —   | — | — | — |
| Methanol                                      | —   | G | P | — |
| Methyl Alcohol [6]                            | G   | G | P | G |
| Methyl Ethyl Ketone (MEK)                     | L   | G | P | G |
| Methyl Ethyl Ketone Peroxide (MEKP)           | —   | L | P | — |
| Methyl Isobutyl Ketone (MIBK)                 | —   | G | P | G |
| Methylen Chloride                             | P   | L | P | G |
| Mineral Oil                                   | G   | G | G | G |
| Mineral Spirits                               | —   | — | L | — |
| Motor Oils                                    | —   | G | G | G |
| Naphta  | G   | G | P | G |
| Natural Gas [4]                               | —   | — | — | — |
| Nitric Acid                                   | —   | P | P | L |
| Nitrobenzene                                  | —   | G | P | G |
| Nitrogen, Gaseous [4] [5]                     | —   | G | G | G |
| Nitrous Oxide                                 | —   | L | — | — |
| Oil (SAE)                                     | G   | G | G | — |
| Oxygen, Gaseous [4] [5] [6]                   | —   | G | G | G |
| Pentane [2]                                   | —   | G | L | G |
| Perchloric Acid                               | —   | P | P | L |

See page F-10 for instructions on using this chart

# General Chemical Resistance Table

## Typical Waterblast and General Hydraulics

| Chemical                                   | POM | N | U | M |
|--|-----|---|---|---|
| Petroleum Ether                            | —   | — | — | — |
| Petroleum Oils                             | —   | G | G | — |
| Phenols                                    | —   | P | P | — |
| Phosphate Esters (above 135°F)             | —   | G | P | — |
| Phosphate Esters (to 135°F)                | —   | G | P | — |
| Propane (4) (5)                            | —   | — | — | — |
| Propylen Glycol                            | —   | — | G | G |
| Salt Water                                 | —   | — | — | G |
| Silicone Greases                           | —   | G | G | — |
| Silicone Oils                              | —   | G | G | — |
| Sodium Borate                              | —   | G | G | G |
| Sodium Carbonate                           | —   | — | — | — |
| Sodium Chloride Solutions                  | —   | G | G | G |
| Sodium Hydroxide, 50%                      | —   | P | P | G |
| Sodium Hypochloride                        | —   | P | P | G |
| Steam                                      | —   | P | P | G |
| Straight Synthetic Oils (phosphate esters) | —   | G | P | — |
| Sulphur Dioxide                            | —   | L | L | G |
| Sulphur Hexafluoride Gas (4) (5)           | —   | G | G | — |
| Sulphuric Acid                             | —   | P | P | — |
| Toluol, Toluene                            | G   | G | L | G |
| Trichlorethylene                           | —   | L | P | G |
| Ucon (hydraulic fluid/water glycol base)   | —   | G | L | — |
| Water (above 60°C) (6)                     | G   | G | P | L |
| Water (to 60°C) (6)                        | —   | G | G | G |
| Water Glycols (above 60°C)                 | —   | L | P | — |
| Water Glycols (to 60°C)                    | —   | G | L | — |
| Water in oil Emulsions (above 60°C)        | —   | L | P | — |
| Water in oil Emulsions (to 60°C)           | G   | G | L | — |
| Xylene                                     | G   | G | P | G |
| Zinc Chloride                              | —   | G | G | G |

See page F-10 for instructions on using this chart

Hose  
A  
Fittings  
B  
Adapters & Valves  
C  
Quick Couplings  
D  
Accessories  
E

**F** General Technical

# PFDE-ES28: Technical Matrix for *polyflex* Offshore Hoses

## PARKER ENGINEERING MANUAL Technical Matrix for Parker *polyflex* Offshore Hoses

Parker Publication No. PFDE-ES28, Revised: March 2013

### Scope

This engineering standard contains the main information which is important for the selection of hose for offshore applications.

Guidelines for handling and storage of hose, see PFDE-ES28 on pg F-19.

### Notes

Detailed information is available in the appropriate hose data sheets. They always have precedence.

Most of the hoses have been fully qualified according to ISO 13628-5 for the working pressures stated, some at even higher pressures and temperatures. Contact Parker for detailed information.

Working pressures stated below are based on safety factor 4:1.

Maximum lengths values are approximate ones. Most of them have been proven during the manufacturing process.

Collapse pressures are typical values. Some of them have been measured on straight hoses, some at the hose minimum bend radius. The values measured at the minimum bend radius as per ISO 13628-5 are highlighted in all tables in *italic underlined*.

All values are only valid for hose assemblies, assembled with appropriate Parker fittings acc. to Parker assembly instructions assembled by Parker trained operators.



# PFDE-ES28: Technical Matrix for *polyflex* Offshore Hoses

## 1 Hoses with methanol washed Nylon 11 core tube, multiple layers of steel wire and a Nylon outer jacket

Working temperature for these hoses is (-40°F to +212°F) (-40°C to +100°C).  
For chemical resistances of core tubes, see PFDE-ES28 on pg F-19.

| Hose Part No. | Nominal I.D.                | Nominal O.D. (mm) | Working Pressure |       | Burst Pressure |       | Max. Manufact. Length (m) | Weight in Air (kg/m) | Collapse Pressure (bar) |
|---------------|-----------------------------|-------------------|------------------|-------|----------------|-------|---------------------------|----------------------|-------------------------|
|               |                             |                   | psi              | bar   | psi            | bar   |                           |                      |                         |
| 2380N-04V91   | 6.4 mm<br>1/4"<br>Size -04  | 13.4              | 10,000           | 690   | 40,000         | 2,760 | 3,200                     | 0.27                 | 220                     |
| 2440N-04V91   |                             | 13.1              | 12,500           | 875   | 50,000         | 3,500 | 3,200                     | 0.31                 | 260                     |
| 2448N-04V91   |                             | 13.7              | 15,000           | 1,035 | 60,000         | 4,140 | 3,000                     | 0.38                 | 445                     |
| 2390N-06V91   | 9.5 mm<br>3/8"<br>Size -06  | 18.1              | 6,450            | 445   | 25,800         | 1,780 | 3,200                     | 0.41                 | 150                     |
| 2440N-06V91   |                             | 19.5              | 12,500           | 875   | 50,000         | 3,500 | 3,200                     | 0.73                 | 320                     |
| 2390N-08V91   | 12.7 mm<br>1/2"<br>Size -08 | 21.2              | 6,000            | 415   | 24,000         | 1,660 | 3,500                     | 0.57                 | 85                      |
| 2440N-08V91   |                             | 22.7              | 11,745           | 810   | 46,980         | 3,240 | 3,000                     | 0.94                 | 190                     |
| 2390N-12V91   | 19.1 mm<br>3/4"<br>Size -12 | 29                | 5,000            | 345   | 20,000         | 1,380 | 3,200                     | 0.9                  | 75                      |
| 2440N-12V91*  |                             | 30.2              | 10,000           | 690   | 36,250         | 2,500 | 2,000                     | 1.47                 | 80                      |
| 2640N-12V91   |                             | 33.2              | 12,500           | 875   | 50,000         | 3,500 | 1,800                     | 2.16                 | 120                     |
| 2390N-16V91   | 25.4 mm<br>1"<br>Size -16   | 35                | 4,060            | 280   | 16,240         | 1,120 | 3,200                     | 1.17                 | 39                      |
| 2440N-16V91   |                             | 37.2              | 8,120            | 560   | 32,625         | 2,250 | 2,000                     | 1.9                  | 60                      |

\* Working pressures for these hoses are based on safety factors lower than 4:1.

Hose  
A

Fittings  
B

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

General Technical  
F

# PFDE-ES28: Technical Matrix for *polyflex* Offshore Hoses

## 1.1 Large bore hoses with additional TPU outer jacket, "ColorGard™"

| Hose Part No.                 | Nominal I.D.                  | Nominal O.D. (mm) | Working Pressure |       | Burst Pressure |       | Max. Manufact. Length (m) | Weight in Air (kg/m) | Collapse Pressure (bar) |
|-------------------------------|-------------------------------|-------------------|------------------|-------|----------------|-------|---------------------------|----------------------|-------------------------|
|                               |                               |                   | psi              | bar   | psi            | bar   |                           |                      |                         |
| 2640N-24V80*                  | 38.1 mm<br>1-1/2"<br>Size -24 | 70.5              | 10,000           | 690   | 33,350         | 2,300 | 600                       | 7.2                  | 65                      |
| 2640N-24V80-KOP*              |                               | 70.5              | 15,000           | 1,035 | 33,750         | 2,330 | 600                       | 7.2                  | 65                      |
| 2640N-24V80-KOP2*             |                               | 66                | 15,000           | 1,035 | 33,750         | 2,330 | 600                       | 6.5                  | 65                      |
| 2448N-32V80<br>PHalcon 2      | 50.8 mm<br>2"<br>Size -32     | 80                | 5,000            | 345   | 20,000         | 1,380 | 1,000                     | 8.8                  | 49                      |
| 2580N-32V80*<br>Black Eagle 2 |                               | 84                | 10,000           | 690   | 25,000         | 1,725 | 1,000                     | 9.4                  | 57                      |
| 2240N-48V80*<br>Black Eagle   | 76.2 mm<br>3"<br>Size -48     | 114               | 5,000            | 345   | 12,500         | 862   | 350                       | 11.5                 | 20                      |
| 2440N-48V80*<br>Black Eagle   |                               | 122               | 10,000           | 690   | 25,000         | 1,725 | 300                       | 18.7                 | 40                      |
| 2640N-48V80*<br>Black Eagle   |                               | 130               | 15,000           | 1,035 | 33,750         | 2,330 | 250                       | 27.5                 | 80                      |

\* Working pressures for these hoses are based on safety factors lower than 4:1.

# PFDE-ES28: Technical Matrix for *polyflex* Offshore Hoses

## 2 ChemJec hoses with fluoropolymer core tube, multiple layers of steel wire and a Nylon outer jacket

Working temperature for these hoses is (-40°F to +212°F) (-40°C to +100°C).  
These hoses have an excellent chemical resistance against most of the aggressive chemicals.

| Hose Part No.  | Nominal I.D.                | Nominal O.D. (mm) | Working Pressure |        | Burst Pressure |       | Max. Manufact. Length (m) | Weight in Air (kg/m) | Collapse Pressure (bar) (see Notes on pg F-19) |
|----------------|-----------------------------|-------------------|------------------|--------|----------------|-------|---------------------------|----------------------|--|
|                |                             |                   | psi              | bar    | psi            | bar   |                           |                      |  |
| 2240M-04V38    | 6.4 mm<br>1/4"<br>Size -04  | 11.6              | 6,250            | 430    | 25,000         | 1,725 | 3,500                     | 0.17                 | 105  |
| 2340M-04V38    |                             | 12.5              | 10,000           | 690    | 40,000         | 2,760 | 3,500                     | 0.23                 | 205  |
| 2380M-04V38    |                             | 13.4              | 10,000           | 690    | 40,000         | 2,760 | 3,200                     | 0.27                 | 400  |
| 2440M-04V38    |                             | 13.1              | 12,500           | 875    | 50,000         | 3,500 | 3,200                     | 0.31                 | 295  |
| 2448M-04V38    |                             | 13.7              | 15,000           | 1,035  | 60,000         | 4,140 | 3,000                     | 0.38                 | 378  |
| 2380M-05V38    | 7.9 mm<br>5/16"<br>Size -05 | 15.8              | 8,700            | 600    | 34,800         | 2,400 | 2,000                     | 0.35                 | 167  |
| 2440M-05V38    |                             | 16.15             | 10,000           | 690    | 40,000         | 2,760 | 2,500                     | 0.49                 | 260  |
| 2448M-05V38    |                             | 16.2              | 15,000           | 1,035  | 60,000         | 4,140 | 2,500                     | 0.52                 | 385  |
| 2370M-06V38    | 9.5 mm<br>3/8"<br>Size -06  | 16.5              | 6,250            | 430    | 25,000         | 1,725 | 2,500                     | 0.33                 | 150  |
| 2440M-06V38    |                             | 19.5              | 10,000           | 690    | 50,000         | 3,500 | 3,200                     | 0.73                 | 370  |
| 2448M-06V38    |                             | 20.1              | 15,000           | 1,035  | 60,000         | 4,140 | 3,000                     | 0.83                 | 390  |
| 2440M-08V38    |                             | 22.7              | 10,000           | 690    | 40,000         | 2,760 | 3,000                     | 0.94                 | 252  |
| 2640M-08V38    | 12.7 mm<br>1/2"<br>Size -08 | 24.7              | 15,000           | 1,035  | 60,000         | 4,140 | 2,800                     | 1.34                 | 300  |
| 2390M-12V38    | 19.1 mm<br>3/4"<br>Size -12 | 29.0              | 5,000            | 345    | 20,000         | 1,380 | 3,200                     | 0.9                  | 75   |
| 2440M-12V38*   | 30.2                        | 10,000            | 690              | 36,250 | 2,500          | 2,000 | 1.47                      | 110                  |  |
| 2390M-16V38    | 25.4 mm<br>1"<br>Size -16   | 35.0              | 4,000            | 280    | 16,000         | 1,120 | 3,200                     | 1.19                 | 35   |
| 2440M-16V38-5K | 37.2                        | 5,000             | 345              | 32,625 | 2,250          | 2,000 | 2.05                      | 65                   |  |

\* Working pressures for these hoses are based on safety factors lower than 4:1.

## 2.1 Large bore hoses with additional TPU outer jacket, "ColorGard™"

| Hose Part No.                  | Nominal I.D.                  | Nominal O.D. (mm) | Working Pressure |     | Burst Pressure |       | Max. Manufact. Length (m) | Weight in Air (kg/m) | Collapse Pressure (bar) (see Notes on pg F-24) |
|--------------------------------|-------------------------------|-------------------|------------------|-----|----------------|-------|---------------------------|----------------------|--|
|                                |                               |                   | psi              | bar | psi            | bar   |                           |                      |  |
| 2640M-24V88*                   | 38.1 mm<br>1-1/2"<br>Size -24 | 70.5              | 10,000           | 690 | 33,350         | 2,300 | 600                       | 7.2                  | 65   |
| 2448M-32V88<br>Phalcon 5000 2  | 50.8 mm<br>2"<br>Size -32     | 80.5              | 5,000            | 345 | 20,000         | 1,380 | 600                       | 8.5                  | 49   |
| 2580M-32V80*<br>Golden Eagle 2 |                               | 84.5              | 10,000           | 690 | 25,000         | 1,725 | 600                       | 9.4                  | 65   |

\* Working pressures for these hoses are based on safety factors lower than 4:1.

# PFDE-ES28: Technical Matrix for *polyflex* Offshore Hoses

## 3 SeaWolf® high collapse resistance aramid reinforced hoses with nylon core tube and TPU outer jacket

Working temperature for these hoses is (-40°F to +140°F) (-40°C to +60°C).

For chemical resistances of core tube, see PFDE-ES28 on pg F-19

| Hose Part No. | Nominal I.D.                | Nominal O.D. (mm) | Working Pressure |      | Burst Pressure |       | Max. Manufact. Length (m) | Weight in Air (kg/m) | Collapse Pressure (bar) (see Notes on pg F-24) |
|---------------|-----------------------------|-------------------|------------------|------|----------------|-------|---------------------------|----------------------|--|
|               |                             |                   | psi              | bar  | psi            | bar   |                           |                      |  |
| 57CR-8-BLU    | 12.7 mm<br>1/2"<br>Size -08 | 30                | 5,000            | 34.5 | 20,000         | 1,380 | 200                       | 0.94                 | 230  |
| 57CR-16-BLU   | 25.4 mm<br>1"<br>Size -16   | 51                | 5,000            | 34.5 | 20,000         | 1,380 | 200                       | 2.17                 | 210  |

## 4 Hoses with methanol washed Nylon 11 core tube, multiple aramid yarn braids and a TPU outer jacket

Working temperature for these hoses is (-40°F to +130°F) (-40°C to +55°C).

For chemical resistances of core tubes, see PFDE-ES24.

| Hose Part No.        | Nominal I.D.                | Nominal O.D. (mm) | Working Pressure |      | Burst Pressure |       | Max. Manufact. Length (m) | Weight in Air (kg/m) | Collapse Pressure (bar) (see Notes on pg F-24) |
|----------------------|-----------------------------|-------------------|------------------|------|----------------|-------|---------------------------|----------------------|--|
|                      |                             |                   | psi              | bar  | psi            | bar   |                           |                      |  |
| 2022N-04V91-5K       | 6.4 mm<br>1/4"<br>Size -04  | 12.7              | 5,000            | 34.5 | 20,000         | 1,380 | 2,000                     | 0.12                 | 50   |
| 2022N-04V91-10K-13MM |                             | 12.9              | 10,000           | 69.0 | 40,000         | 2,760 | 3,000                     | 0.12                 | 75   |
| 2022N-04V91-10K      |                             | 13.8              | 10,000           | 69.0 | 40,000         | 2,760 | 2,500                     | 0.14                 | 60   |
| 2022N-06V91-5K       | 9.5 mm<br>3/8"<br>Size -06  | 16.1              | 5,000            | 34.5 | 20,000         | 1,380 | 2,000                     | 0.15                 | 14   |
| 2022N-06V91-10K      |                             | 19.0              | 10,000           | 69.0 | 40,000         | 2,760 | 2,000                     | 0.19                 | 40   |
| 2022N-08V91-5K       | 12.7 mm<br>1/2"<br>Size -08 | 20.8              | 5,000            | 34.5 | 20,000         | 1,380 | 2,000                     | 0.17                 | <10  |
| 2022N-08V91-10K      |                             | 23.2              | 10,000           | 69.0 | 40,000         | 2,760 | 1,500                     | 0.34                 | 19   |

\* Working pressures for these hoses are based on safety factors lower than 4:1.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## PARKER ENGINEERING MANUAL

### Instructions for Handling, Maintenance, Inspection and Repair of *polyflex* "1-3" Large Bore Hoses and Assemblies Used in Oil & Gas Applications

Parker Publication No. PFDE-ES28, Revised: October 2014

#### 1 Scope

This engineering standard is focused mainly on larger bore (1"-3"), long length Parker Polyflex multispiral wire-reinforced hoses used in well service operations. It is also relevant for shorter length hose assembly applications such as chemical injection, stimulation, cementing, flexible and testing lines. It provides information on recommended practices for handling, maintenance, inspection, and repair of hose assemblies.

Deployed as single line hoses or used in bundles, these hoses are available in sizes from 3/16" to 3" inside diameter with working pressures up to 1035 bar / 15,000 psi and continuous lengths greater than 3000 m, depending on size.

Hose can be self-supporting, clamped, supported by a guide wire or strengthened with an additional tensile reinforcement.

Parker Polyflex have certified several specialized testing facilities and their personnel to assemble, inspect, test and repair hose assemblies. Hose management is an essential part of the service they provide.

SAE J1273, ISO 17165-2, API RP 17B and ISO 13628 are excellent documents providing general guidelines for selection, routing, fabrication, installation, replacement, maintenance, and storage of hose and hose assemblies. Together with Parker Polyflex field experience, they provide the basis for the recommendations included in this engineering standard.

#### 2 Hose Features

Parker Polyflex Oil & Gas multispiral wire-reinforced hoses have been used for over 30 years in both onshore and offshore applications. They are proven to be tough, easy to handle, lightweight (compared with alternatives), and offer excellent chemical resistance, integral external collapse, ozone and microbiological resistance.

In extreme, abrasive applications, Polyflex offers an additional extra thick ColorGard™ sheath incorporating a dual color "early warning" safety feature.

##### 2.1 Design Life

Parker Polyflex large bore hoses are designed for prolonged service life. The prerequisite for this design life is that the hoses are used within the operating limits stated in the hose specification sheets. These limits include, but are not limited to, working pressure, number of pressure cycles, temperature range and bending radius.

In order to ensure a long service life, Parker Polyflex incorporates a combination of raw material suppliers testing and data, fatigue testing, and accelerated and specialized testing into the design of the hoses.

Obviously, due to many other factors affecting the service life, it is not possible to predict or guarantee service life of each individual hose assembly.

These factors may include, but are not limited to, mechanical loads (bending, torsion, tensile loads), frequent changes of temperature within the specified range, improper handling and storage, chemical attack, abrasive fluids, hose damage etc.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## 3 Storage

Hoses and hose assemblies should be stored, wherever possible, empty and protected from the elements in a stress free condition either straight, in a coil, or on a drum. The inside diameter of the coil or drum should not be less than two times the minimum bend radius. If a hose assembly has been used with chemicals, it shall be flushed with water before putting it to storage (see also 5.4).

Example: hose with minimum bend radius 800 mm; minimum size of drum core/belly should be  $2 \times 800 \text{ mm} = 1.6 \text{ m}$ .

The fittings should be capped to prevent ingress of dirt or other contamination and any exposed threads protected from damage.

Storage of hoses and hose assemblies should take into account potential exposure to corrosive liquids, rodents, insects, UV light and high temperatures. Storage temperatures should be in the range of hose operating temperatures.

## 4 Handling

### 4.1 Personnel

Only trained personnel shall handle and connect hose assemblies.

Incorrect handling will seriously reduce the lifetime of the hose and could cause dramatic failure. The use of wire rope or chains directly against the outer cover should be avoided, and the routing of the assembly should ensure the hose is never bent below its minimum bend radius or twisted. Special attention should be paid to the area at the back of the fitting.

### 4.2 Spooling and Reeling

When reeling long length hose onto a drum it is essential to minimize the tension on the hose. Proof testing of a "stretched" hose while on the drum can cause premature failure of the hose or damage to the drum.

When operating from a vessel it is recommended that the hose is pressurized during the subsea deployment and retrieving operation. This recommendation is based on the fact that during these operations the hose is always subjected to tensile force, at least due to its own weight. Tensile forces will result in hose elongation and possible deformation.

This is significantly reduced by pressurizing the hose, especially important if it is planned to proof test the hose assembly while coiled on a drum or winch. Deployment and retrieving pressures up to 200 bar had been found to be sufficient but this depends on the hose type and local safety regulations. For recommendations of pressure / load values see Appendix 2.

When re-spooling a long length assembly, the pay-off and take-up drums should be inline and a minimum of 10m apart. Depending on how the hose was delivered or re-spooled, the hose shall be spooled from either the top of the pay-off drum onto the top of the take-up drum or from bottom to bottom. (See Fig. 1 and Fig. 2 on next page.) These recommendations minimize the possibility of inducing twist into the hose.

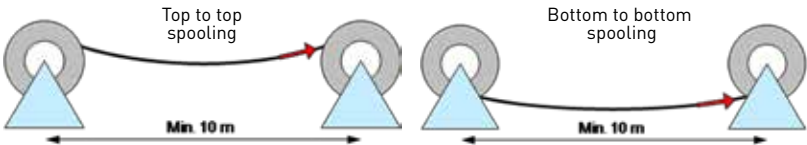
When re-spooling a new hose that has a polyurethane cover, it is recommended to lubricate the hose cover with soapy water or other suitable lubricant so the hose will traverse more easily and position itself correctly onto the take-up drum/winich. See Fig. 1 (next page).

It is also recommended, when deploying the hose through a moon pool or over the side of a vessel, to align the hose routing in the same manner. See Fig. 2 (next page).

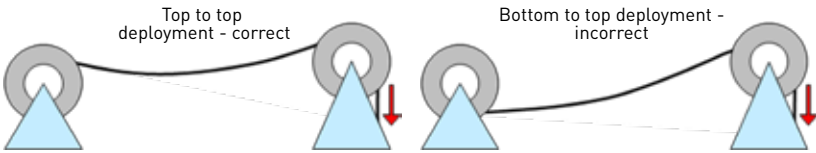
### Note:

When first supplied, the layline printed on the hose is normally straight and visible. Twisting of the layline is an early indication of poor alignment or high tensile loading.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses



**Fig. 1 Hose re-spooling**



**Fig. 2 Hose deployment**

## 5 Possible causes of premature failure, and suggested preventative measures

### 5.1 Bending the hose below the minimum bend radius

This is most likely to occur if the end fitting is not supported during lifting, a support sling wrongly positioned, or the hose being pulled around a tight corner. It is important that hose should not be bent close to the end fittings. The straight section should be at least two times the outside diameter of the hose before it starts to bend.

Bend restrictors, lifting clamps and containment grips are useful accessories that help to reduce this type of handling problem.

### 5.2 Damage of the hose cover

Polyflex ColorGard™ extra thick, dual color cover significantly reduces the risk of exposing the reinforcing wires. If the outer black cover has been abraded to the point that the “early warning” red inner cover can be seen, but the wire reinforcement has not been exposed, the assembly is still fit for use but shall be scheduled for inspection. Alternatively, a repair according to section 8.1.1 may be considered.

If the hose cover is damaged to the extent that the reinforcing wires are exposed, localized corrosion of the wires could occur causing a progressive reduction in burst pressure, and ultimately failure.

If used subsea, a damaged cover will allow water to ingress into the carcass of the hose and could cause the corrosion of the wire reinforcement and/or collapse of the core tube.

It is strongly recommended to immediately remove from service any hose assembly with exposed wires. See also section 8.1.2 for details. A Parker Polyflex specialized testing facility should be contacted and the procedure described in section 7.1 shall be followed.

### 5.3 Kinked, crushed or twisted hose

If a visible distortion of the hose occurred (kinked, crushed, twisted) it will have an impact on the function and lifetime of the hose. Reduction of burst pressure and external collapse pressure could result in a sudden failure of the hose assembly. This distortion can be caused by a high tensile load or other factors.

Maintaining pressure in the hose will significantly reduce the risk of such distortion occurring.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## 5.4 Chemical attack or aging of the core tube

The use of chemicals at differing concentrations and/or temperatures can have a major effect on the life of a hose assembly and may cause dramatic hose failure. It is important to reference the chemical compatibility chart in the appendix of this document and keep the temperatures and concentrations within the specified limits.

### Note:

It is critical that the hose is thoroughly flushed with water after each use.

If the hose is not flushed, the concentration of the fluid that is left in the assembly can increase and cause localised failure of the core tube.

## 5.5 Damage or corrosion of the end fitting

Incorrect handling or insufficient flushing after use could result in damage or corrosion of the end fitting. This will make connection difficult, probably cause leakage, and could result in sudden failure of the connection.

## 5.6 Flow rates

Depending on the abrasive properties of the fluid, high flow rates can result in erosion in the core tube or in the bore of the end fitting.

The maximum recommended flow rate is 15 m/sec, although much higher rates have been used short term with non abrasive fluids.

### Note:

The condition of the core tube and end fittings are checked as part of the full inspection.

## 6 Routine in-field pre-job and post-job maintenance, inspection and testing

### 6.1 Routine in-field pre-job maintenance, inspection and testing

The operator shall visually inspect the hose assembly during every deployment. If any of the following conditions are found the hose shall be removed from service and scheduled for inspection.

- Damage to the outer cover which exposes the reinforcing wires.
- Kinked, crushed, or twisted hose.
- Reduction in the outside diameter of the hose.
- Blistered, soft, degraded, or loose outer cover.
- Cracked, damaged, or badly corroded fittings.

If in doubt, contact the original supplier or a Parker Polyflex specialized testing facility for advice.

Regular in-field pressure testing, (normally required after attaching connectors prior to hose deployment), should be restricted to a test pressure of  $1,1 \times$  actual operating pressure, or the maximum stated working pressure of the hose assembly.

Prior to all pressure testing it must be ensured that all air is purged out of the hose. Failure to do so may result in core tube failure. To control that all air is removed it is sufficient to observe that the fluid flow leaving the hose is steady and constant for minimum of 5 minutes without any air bubbles or pulsations.



# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## 6.2 Routine in-field post-job maintenance, inspection and testing

On completion of each operation both inside and outside hose surfaces should be flushed/cleaned with sufficient clean water to ensure that all chemicals or residues are fully removed from the hose assembly.

The operator shall visually inspect the hose assembly during every recovery. If any of the following conditions are found the assembly shall be removed from service and scheduled for inspection.

- Damage to the outer cover which exposes the reinforcing wires.
- Kinked, crushed, or twisted hose.
- Reduction in the outside diameter of the hose.
- Blistered, soft, degraded, or loose outer cover.
- Cracked, damaged, or badly corroded fittings.

If in doubt, contact the original supplier or a Parker Polyflex specialized testing facility for advice.

## 6.3 Recertification of hose assemblies

Parker Polyflex recommend that all hose assemblies shall be returned to the original supplier or a Parker Polyflex specialized testing facility at least once a year for full inspection/recertification.

The supplier will issue a report detailing the condition of the assembly, and recommend recertification, repair, or replacement.

## 7 Procedure for full inspection

In addition to the standard marking (WP, month and year of production, hose assembly manufacturer and serial number) all hose assemblies will be marked with the recertification date (RECERT. MM/YYYY).

It is the responsibility of the purchaser to track the location of the hose assembly and the responsibility of the supplier to inform the purchaser a month before the hose assembly is due for full inspection/recertification.

Parker Polyflex have trained and certified specialized facilities and their personnel to assemble, inspect, test, repair and recertify hose assemblies.

Hose management is an essential part of the service they provide.

The history of each assembly must be logged showing the results of previous inspections and any repairs.

### 7.1 Customer pre-dispatch procedure before returning a hose assembly for inspection/repair

- The object is to make sure the hose assembly can be safely handled and the condition of the assembly will justify the transportation and inspection costs.
- The chosen inspection facility should be contacted if doubtful about any of the points below.
- Check and record assembly serial number (send information to test facility).
- Assembly must be free of chemical residues inside and outside (could result in refusal to handle returned assembly).
- Report on any findings out of section 6.1
- Method of transport, size and weight, (long length hose assemblies on drums or reels may require special handling equipment such as drums and re-spooling machinery).
- Customer will receive a budget price for inspection based on the information given by the end user.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## 7.2 Full inspection of the returned hose assembly includes the following:

- Safety inspection, condition of assembly as received.
  - Check for chemical residue inside and outside (may require flushing or cleaning).
  - Assembly serial number (check assembly history including previous repairs).
- External inspection
- Internal inspection
- Inspection report

### 7.2.1 External inspection

- Damage to the outer cover (abrasion, incorrect routing)
- Exposed reinforcing wires. (damaged outer cover)
- Kinked, crushed, or twisted hose. (high tensile loading, incorrect routing)
- Reduction in the outside diameter of the hose (high tensile loading with no pressure)
- Blistered, soft, degraded, or loose outer cover. (chemical attack, leaking fitting, permeation or high temperature)
- Cracked, damaged, or badly corroded fittings (chemical attack, poor handling, old hose assembly)
- Damage or wear on fitting threads (poor handling, old hose assembly)
- Condition of containment grips / clamps. (abrasion, frayed wires, distortion)

### 7.2.2 Internal inspection

Internal inspection shall be done with an endoscope.

- Check for damage to bore of fittings, cracks, severe abrasion, corrosion.
- Check condition of core tube at the back of fittings (critical area).
- Scope maximum length of the core tube possible. Recommended minimum is 10 m both sides.

- Hose assemblies shorter than 20 m should be scoped on the complete length.
- Look for uneven surface (sign of wire fatigue, abrasion, chemical attack).

### 7.2.3 Inspection report

The testing facility will advise on the overall condition of the hose and end connections.

Customer will receive detailed report of the findings, including recommended actions:

- repair
- recertification
- scrapping

## 8 Procedure for repair and recertification

### 8.1 Repair

It is recommended, that all repairs are done by certified specialized testing facilities. Some repairs (see examples below) could be done in field. Be sure to maintain safety requirements.

#### 8.1.1 Twisted hose, hose with reduced O.D., flattened hose

A hose with signs of twisting or deformation will need to be unreeled, as straight as possible, from the winch/drum in a safe environment and pressurized to working pressure for at least 1 hour and then pressure released. The hose shall be re-inspected to see if the hose has returned to its "untwisted, undistorted" original shape. If so, the hose should be again pressurized before rewinding back onto the winch/drum. Any sections of hose still misshapen should be cut out of the assembly.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## 8.1.2 Hose with cover damage

- No reinforcement wires exposed.

Temporary solution, the damaged area can be cleaned and protected by wrapping with a strong adhesive “duct / riggers” tape. If abraded to the point where the red ColorGard is visible, the damaged area should be thoroughly cleaned with mild solvent, a thin plastic sheet wrapped around the hose to form a mould. A two pack polyurethane mixture can then be poured into the mould and allowed to set. Remove mould after the polyurethane is set.

- Reinforcement wires exposed.

It is strongly recommended to remove the hose assembly from service immediately. Any ingress of water into hose carcass will initiate corrosion of the reinforcement wire. It is difficult to estimate the rate of corrosion. At best, the hose could function for months, at worst, possibly less than one week. It is also possible that the core tube could have collapsed if the external pressure acting within the carcass is greater than internal pressure within the hose.

In any case, the lifetime of the hose assembly will be significantly reduced, and the hose assembly shall be immediately scheduled for inspection at certified specialized testing facility.

Decision to further use a hose assembly with exposed wire shall be based on a proof pressure test for 1,1× maximum working pressure of the hose assembly. This test shall be conducted prior to every further job.

Repair of such a hose assembly is possible, but it will include cutting out the section of the hose, where the wires have been subjected to water. Obviously, this will require new fittings to be crimped and hose assembly to be proof pressure tested. Procedure for proof pressure testing in this case is specified in the assembly instructions for the appropriate hose type.

After successfully passing pressure test, hose assembly shall be permanently marked with the new recertification date (see section 7).

The testing facility will recommend if the condition of the hose warrants the cost of assembling new fittings, joining the lengths together and proof testing.

## 8.2 Recertification

Recertification shall include full inspection acc. to section 7.2 and a hydrostatic pressure test.

Unless otherwise agreed between customer and test facility, test conditions are:

Test pressure = 1.5× maximum working pressure of hose assembly. Allow for at least 30 minutes stabilization time before starting recording pressure decay.

Pressure hold time = 1 hour

Pressure decrease of maximum 5% is allowed.

After successfully passing pressure test, hose assembly shall be permanently marked with the new recertification date (see section 7).

The maximum number of pressurizations to 1.5× maximum working pressure is limited to 20.

### Note:

The 20 × 1.5 WP pressurizations is likely to be a combination of annual inspections, re-ending damaged fittings, or cutting off damaged hose. Example 1 – undamaged hose and fittings tested once a year give an estimated lifetime of 20 years. Example 2 - after 5 years, – fitting re-ended 4 times, hose damaged 3 times, 5× annual pressurizations at 1.5 x WP (tip, re-ending of both fittings would only require one pressure test) result in the total number of pressurizations at 1.5 × WP of 12.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## Appendix 1: Chemical Resistance Chart

The below chart contains chemical resistance information for Polyamide 11 (Nylon 11) and Fluoropolymer.

These are the most common core tube materials used for Parker Polyflex oil & gas hoses. Please refer to the hose datasheets for more detailed information.

### Rating Codes

|   |                |   |
|---|----------------|---|
| E | Excellent      | Good to excellent. Little or no swelling, tensile or surface change. Preferred choice.  |
| A | Good           | Good to excellent. Little or no swelling, tensile or surface change. Limitations with temperature and type of fluid.  |
| B | Limited        | Marginal or conditional. Noticeable effects but not necessary indicating lack of serviceability. Further testing is suggested for specific application. Very long-term effects. |
| X | Unsatisfactory | Poor or unsatisfactory. Not recommended without extensive and realistic testing.  |
| - |                | Indicates that this was not tested.   |
| * | Swelling       | Increase of volume of material, due to absorption of a solvent.   |

### Material Code for Hose Core Tube

N Polyamide

M Coextruded core tube with Fluoropolymer inner liner

For waterblast and general hydraulic hoses, see page F-10

### Notes on Chemical Resistance Table

The chemical resistance table is a simplified rating tabulation based on immersion tests. Higher temperatures tend to reduce ratings. Since final selection depends on pressure, fluid, ambient temperature and many other factors not known to Parker Hannifin, no performance guarantee is expressed or implied.

The indications do not imply any compliance with standards and regulations and do not refer to possible changes of colour, taste or smell.

Some hose applications must take into account legal and insurance regulations. The chemical resistance indicated does not express or imply approval by certain institutions.

Chemical resistance does not imply low permeation rates.

For gas applications, the cover may be pin-pricked. Pin-pricking reduces the potential of cover blistering due to permeation. However, pin-pricked wire reinforced hoses are not suitable for subsea use. Parker Polyflex wire reinforced hoses may be used without pin-pricking. In this case, time of permanent use with gas should be limited to 30 days. Hoses with ColorGard will not be pin-pricked. No special precautions on decompression rate are required, however, explosive decompression rate (>200 bar/sec) is not recommended. Note that hoses with coextruded core tube with Fluoropolymer inner liner are not recommended for gas applications.

For fluids, not listed or for advice on particular applications, please contact Parker Hannifin, Polyflex Division in Lampertheim, Germany.

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

Hose  
A

| Chemical             | Concentration      | N              |                 |                 |                 |                  | M |
|----------------------|--------------------|----------------|-----------------|-----------------|-----------------|------------------|---|
|                      |                    | 20°C<br>(68°F) | 40°C<br>(104°F) | 60°C<br>(140°F) | 90°C<br>(194°F) | 100°C<br>(212°F) |   |
| Acetaldehyde         |                    | A              | B               | X               | X               | A                |   |
| Acetic Acid          | 5%                 | A              | A               | A               | B               | E                |   |
| Acetic Acid          | 10%                | A              | A               | B               | X               | E                |   |
| Acetic Acid          | 50%                | B              | X               | X               | X               | E                |   |
| Acetic Anhydride     |                    | B              | X               | X               | X               | E                |   |
| Acetone              | Pure               | A              | A               | B               | X               | A                |   |
| Acetylene            |                    | A              | A               | A               | —               | A                |   |
| Air                  |                    | A              | A               | A               | A               | A                |   |
| Aluminium Sulfate    | Saturated Solution | A              | A               | A               | A               | A                |   |
| Ammonia              | Liquid or Gas      | A              | A               | A               | X               | A                |   |
| Ammonium Chloride    |                    | A              | A               | A               | —               | A                |   |
| Ammonium Hydroxide   | Concentrated       | A              | A               | A               | A               | A                |   |
| Ammonium Nitrate     |                    | A              | A               | A               | A               | A                |   |
| Ammonium Sulfate     | Saturated Solution | A              | A               | B               | —               | E                |   |
| Amyl Acetate         |                    | A              | A               | A               | B               | A                |   |
| Aniline              |                    | B*             | X               | X               | X               | E                |   |
| Asphalt              |                    | A              | A               | A               | A               | A                |   |
| Barium Chloride      | Saturated Solution | A              | A               | A               | A               | A                |   |
| Benzaldehyde         |                    | A              | B               | X               | X               | E                |   |
| Benzene              |                    | A              | A*              | B               | X               | E                |   |
| Butane               |                    | A              | A               | A               | A               | A                |   |
| Butyl Alcohol        |                    | A*             | B               | X               | X               | E                |   |
| Calcium Arsenate     |                    | A              | A               | A               | —               | A                |   |
| Calcium Chloride     | Saturated Solution | A              | A               | A               | A               | A                |   |
| Calcium Nitrate      |                    | A              | A               | A               | —               | A                |   |
| Camphor              |                    | A              | —               | —               | —               | A                |   |
| Carbon Dioxide       |                    | A              | A               | A               | A               | A                |   |
| Carbon Monoxide      |                    | A              | A               | A               | A               | A                |   |
| Carbon Disulfide     |                    | A*             | B*              | B               | X               | A                |   |
| Carbon Tetrachloride |                    | X              | X               | X               | X               | A                |   |
| Cement Slurries      |                    | A              | A               | A               | —               | A                |   |
| Chlorinated Solvents |                    | B              | X               | X               | X               | E                |   |
| Chloroform           |                    | B              | X               | X               | X               | E                |   |
| Chromic Acid         |                    | X              | X               | X               | X               | E                |   |
| Citric Acid          | Saturated Solution | A              | A               | B               | X               | E                |   |
| Copper Sulfate       |                    | A              | A               | A               | A               | A                |   |
| Cyclohexane          |                    | A              | A               | A               | B               | A                |   |
| Cyclohexanol         |                    | A              | B               | X               | X               | E                |   |

Fittings  
B

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

**F** General Technical

See page F-26 for instructions on using this chart

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

| Chemical                                  | Concentration | N              |                 |                 |                 | M                |
|---|---------------|----------------|-----------------|-----------------|-----------------|------------------|
|   |               | 20°C<br>(68°F) | 40°C<br>(104°F) | 60°C<br>(140°F) | 90°C<br>(194°F) | 100°C<br>(212°F) |
| Cyclohexanone                             |               | A              | B               | X               | X               | E                |
| Diammonium Phosphate                      |               | A              | A               | B               | —               | E                |
| Dichloroethylene                          |               | B              | X               | X               | X               | E                |
| Diesel                                    |               | A              | A               | A               | A               | A                |
| Diester Oils                              |               | A              | A               | A               | B               | A                |
| Diethanolamine                            | 20%           | A              | A*              | A*              | B               | A                |
| Diethyl Ether                             |               | A              | —               | —               | —               | E                |
| Dioctylphthalate                          |               | A              | A               | A               | B               | A                |
| Ethanol                                   | Pure          | A*             | B               | B               | X               | E                |
| Ethyl Acetate                             |               | A              | A               | A               | —               | A                |
| Ethylene Glycol                           |               | A*             | A*              | B               | X               | E                |
| Ethylene Oxide                            |               | A              | A               | X               | X               | E                |
| Fatty Acid Esters                         |               | A              | A               | A               | A               | A                |
| Formaldehyde                              | Technical     | A              | B               | X               | X               | E                |
| Formic Acid                               | 10%           | X              | X               | X               | X               | E                |
| Furfuryl Alcohol                          |               | A              | A*              | B               | X               | E                |
| Gas [Coal]                                |               | A              | A               | —               | —               | A                |
| Gasoline (High Octane)                    |               | A              | A               | A*              | —               | A                |
| Glucose                                   |               | A              | A               | A               | A               | A                |
| Glycerine                                 | Pure          | A              | A               | B               | X               | E                |
| Glycol                                    |               | A              | A               | B               | X               | A                |
| Heptane                                   |               | A              | A               | A*              | —               | A                |
| Hexane                                    |               | A              | A               | A               | A               | A                |
| Hydrogen                                  |               | A              | A               | A               | A               | A                |
| Hydraulic Fluid<br>(petroleum base)       |               | A              | A               | A               | A               | A                |
| Hydraulic Fluid<br>(phosphate ester base) |               | A              | A               | A               | B               | A                |
| Hydraulic Fluid (water<br>base)           |               | A              | A               | A               | A               | A                |
| Hydrogen Peroxide                         | 20%           | A              | B               | —               | —               | E                |
| Hydrochloric Acid                         | 15%           | A              | B               | X               | X               | E                |
| Hydrochloric Acid                         | 28%           | X              | X               | X               | X               | E                |
| Hydrochloric Acid                         | 37%           | X              | X               | X               | X               | A                |
| Hydrofluoric Acid                         | 3%            | A              | B               | X               | X               | E                |
| Isocyanates                               |               | B              | X               | X               | X               | E                |
| Isooctane                                 |               | A              | A               | A               | A               | A                |
| Isopropyl Alcohol                         |               | A              | B               | X               | X               | E                |
| Kerosene                                  |               | A              | A               | A*              | B               | A                |
| Lactic Acid                               |               | A              | A               | A               | B               | E                |

See page F-26 for instructions on using this chart

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

| Chemical               | Concentration | N              |                 |                 |                 | M                |
|------------------------|---------------|----------------|-----------------|-----------------|-----------------|------------------|
|                        |               | 20°C<br>(68°F) | 40°C<br>(104°F) | 60°C<br>(140°F) | 90°C<br>(194°F) | 100°C<br>(212°F) |
| LP Gas                 |               | A              | A               | A               | A               | E                |
| Magnesium Chloride     | 50%           | A              | A               | A               | A               | A                |
| Mercury                |               | A              | A               | A               | A               | A                |
| Methane                |               | A              | A               | A               | A               | E                |
| Methanol               | Pure          | A              | B               | B*              | X               | E                |
| Methyl-Cellosolve      |               | A              | A               | A               | X               | A                |
| Methyl Acetate         |               | A              | A               | A               | —               | A                |
| Methyl Bromide         |               | A              | X               | X               | X               | E                |
| Methyl Chloride        |               | A              | X               | X               | X               | E                |
| Methyl Sulfate         |               | A              | B               | —               | —               | E                |
| Methyl Ethyl Ketone    |               | A              | A               | B               | X               | —                |
| Methyl Isobutyl Ketone |               | A              | A               | B               | X               | E                |
| Methylene Chloride     |               | X              | X               | X               | X               | A                |
| Monochlorobenzene      |               | B              | X               | X               | X               | A                |
| Naphta                 |               | A              | A               | A               | —               | A                |
| Naphtalene             |               | A              | A               | A               | B               | A                |
| Natural Gas            |               | A              | A               | A               | A               | E                |
| Nitric Acid            |               | X              | X               | X               | X               | A                |
| Nitrobenzene           |               | B              | X               | X               | X               | A                |
| Nitrogen Gas           |               | A              | A               | A               | A               | E                |
| Oil Crude              |               | A              | A               | A               | B               | A                |
| Oils Refined           |               | A              | A               | A               | B               | A                |
| Oleic Acid             |               | A              | A               | A               | B               | A                |
| Oxalic Acid            |               | A              | A               | B               | X               | E                |
| Oxygen Gas             |               | A              | A               | B               | X               | A                |
| Perchloric Acid        |               | B              | X               | X               | X               | B                |
| Perchloroethylene      |               | B              | X               | X               | X               | E                |
| Petroleum Ether        |               | A              | A               | A               | B               | E                |
| Phosphoric Acid        | 50%           | A              | B               | X               | X               | E                |
| Picric Acid            |               | B              | X               | X               | X               | E                |
| Potassium Carbonate    |               | A              | A               | B               | X               | E                |
| Potassium Chloride     |               | A              | A               | B               | X               | E                |
| Potassium Hydroxide    | 50%           | A              | B               | X               | X               | E                |
| Potassium Nitrate      |               | A*             | B*              | X               | X               | E                |
| Potassium Sulfate      |               | A              | A               | A               | A               | A                |
| Propane                |               | A              | A               | A               | A               | A                |
| Propylen Glycol        |               | A              | B               | X               | X               | A                |

See page F-26 for instructions on using this chart

Hose  
A

Fittings  
B

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

General Technical  
F

# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

| Chemical                 | Concentration      | N              |                 |                 |                 | M                |
|--------------------------|--------------------|----------------|-----------------|-----------------|-----------------|------------------|
|                          |                    | 20°C<br>(68°F) | 40°C<br>(104°F) | 60°C<br>(140°F) | 90°C<br>(194°F) | 100°C<br>(212°F) |
| Pydraul F9               |                    | A              | A               | A               | —               | A                |
| Pyridine                 | Pure               | B              | X               | X               | X               | E                |
| Sodium Borate            |                    | A              | A               | A               | —               | A                |
| Sodium Carbonate         | Saturated Solution | A              | A               | B               | X               | E                |
| Sodium Chloride          | Saturated Solution | A              | A               | A               | A               | A                |
| Sodium Hydroxide         | 50%                | A              | B               | X               | X               | E                |
| Sodium Hypochlorite      | Concentrated       | B              | X               | X               | X               | E                |
| Sodium Hypochlorite      | Dilute Commercial  | A              | B               | X               | X               | E                |
| Sodium Sulfide           |                    | A              | A               | B               | —               | E                |
| Stearin                  |                    | A              | B               | B               | —               | E                |
| Stearic Acid             |                    | A              | A               | A               | B               | A                |
| Styrene Monomer          |                    | A              | A*              | —               | —               | E                |
| Sulphur Dioxide          |                    | B              | X               | X               | X               | A                |
| Sulphur Hexafluoride Gas |                    | A              | A               | A               | A               | A                |
| Sulphuric Acid           | 10%                | A              | B               | X               | X               | A                |
| Sulfic Anhydride         |                    | B              | X               | X               | X               | E                |
| Tartaric Acid            |                    | A              | A               | A               | B               | A                |
| Tetraethyl Lead          |                    | A              | —               | —               | —               | E                |
| Tetrahydrofurane         |                    | A              | A               | B               | X               | E                |
| Toluene                  |                    | A              | A*              | B               | B               | E                |
| Trichloroethane          |                    | B              | X               | X               | X               | E                |
| Trichloroethylene        |                    | B              | X               | X               | X               | E                |
| Tricresyl Phosphate      |                    | A              | A               | A               | B               | A                |
| Tributyl Phosphate       |                    | A              | A               | A               | B               | A                |
| Trisodium Phosphate      |                    | A              | A               | A               | A               | A                |
| Triphenyl Phosphate      |                    | A              | A               | B               | —               | A                |
| Turpentine               |                    | A              | A               | B               | —               | A                |
| Urea                     |                    | A              | A               | B               | B               | E                |
| Uric Acid                |                    | A              | A               | A               | B               | A                |
| Vinegar                  |                    | A              | A               | A               | —               | A                |
| Water                    |                    | A              | A               | A               | A               | A                |
| Water Glycols            |                    | A              | A               | A               | B               | A                |
| Water, Sea               |                    | A              | A               | A               | A               | A                |
| Water, Soda              |                    | A              | A               | A               | A               | A                |
| Xylene                   |                    | A              | A*              | B               | B               | E                |
| Zinc Chloride            |                    | A              | A               | B               | X               | E                |

See page F-26 for instructions on using this chart



# PFDE-ES28: Handling, Maintenance and Inspection of *polyflex* Offshore Hoses

## Appendix 2: Data for Tensile Loading and Weights of Polyflex Hoses

Note that all below values of tensile forces include the own weight of the hoses. Pressurized hose can take higher tensile load, it will elongate less. All values below have been confirmed by testing. In all cases the hoses will not elongate more than 10%.

|             |                         |    |               |               |               |
|-------------|-------------------------|----|---------------|---------------|---------------|
| 2448N-32V80 | Pressure [bar]          | 0  | 100 and above |               |               |
|             | Max. tensile force [kN] | 15 | 20            |               |               |
| 2580N-32V80 | Pressure [bar]          | 0  | 100           | 200           | 300 and above |
|             | Max. tensile force [kN] | 25 | 30            | 35            | 40            |
| 2240N-48V80 | Pressure [bar]          | 0  | 100 and above |               |               |
|             | Max. tensile force [kN] | 15 | 20            |               |               |
| 2440N-48V80 | Pressure [bar]          | 0  | 100           | 200 and above |               |
|             | Max. tensile force [kN] | 30 | 40            | 50            |               |
| 2640N-48V80 | Pressure [bar]          | 0  | 100           | 200           | 350 and above |
|             | Max. tensile force [kN] | 30 | 40            | 50            | 100           |

In the table below some figures are put together for information.

|             | Hose I.D. (mm) | Hose O.D. (mm) | Hose weight in air empty (kg/m) | Hose weight in air, full of water (kg/m) | Hose weight in water empty (kg/m) | Hose weight in water full of water (kg/m) |
|-------------|----------------|----------------|---------------------------------|--|-----------------------------------|---|
| 2448N-32V80 | 50.5           | 80.5           | 8.5                             | 10.5                                     | 3.3                               | 5.3                                       |
| 2580N-32V80 | 50.5           | 84.5           | 9.4                             | 11.5                                     | 3.7                               | 5.7                                       |
| 2240N-48V80 | 75.0           | 114.0          | 11.5                            | 16.0                                     | 1.1                               | 5.6                                       |
| 2440N-48V80 | 75.0           | 122.0          | 18.7                            | 23.2                                     | 6.7                               | 11.3                                      |
| 2640N-48V80 | 75.0           | 130.0          | 27.5                            | 32.0                                     | 14.0                              | 18.4                                      |

**1st Example:** No pressure. 300 m length of 2240N-48V80 shall be deployed. Hose weight in water, full of water,  $5,6 \text{ kg/m} \times 300 \text{ m} = 1680 \text{ kg}$ . Max tensile force is 15 kN, therefore a 300m length is too heavy to deploy in these conditions.

**2nd Example:** Pressure 100 bar. 300 m length of 2240N-48V80 shall be deployed. Hose weight in water, full of water,  $5,6 \text{ kg/m} \times 300 \text{ m} = 1680 \text{ kg}$  max. tensile force is 20 kN, so a 300 m length of 2240N-48V80 is OK to deploy when pressurized at 100 bar, and an additional weight of  $2000-1680=320 \text{ kg}$  may be added.

**NOTE:** Appendix 2 chemical charts are located in the on-line brochure "4900-PFDE-ES28", followed by Appendix 3. Choose the link below for immediate access.

TAKE ME TO 4900-PFDE-ES28

# Parker Safety Guide

## Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings, Connectors, Conductors, Valves and Related Accessories



### Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories Publication No. 4400-B.1, Revised: October 2015, Rev A

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

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocutation from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Tube or pipe burst.
- Weld joint fracture.
- 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. No product from any division in Parker Fluid Connectors Group is approved for in-flight aerospace applications. For hoses and fittings used in in-flight aerospace applications, please contact Parker Aerospace Group.

### 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. Metallic tube or pipe are called "tube". All assemblies made with Hose are called "Hose Assemblies". All assemblies made with Tube are called "Tube Assemblies".

All products commonly called "fittings", "couplings" or "adapters" are called "Fittings". Valves are fluid system components that control the passage of fluid. Related accessories are ancillary devices that enhance or monitor performance including crimping, flaring, flanging, presetting, bending, cutting, deburring, swaging machines, sensors, tags, lockout handles, spring guards and associated tooling. This safety guide is a supplement to and is to be used with the specific Parker publications for the specific Hose, Fittings and Related Accessories that are being considered for use. Parker publications are available at [www.parker.com](http://www.parker.com). SAE J1273 ([www.sae.org](http://www.sae.org)) and ISO 17165-2 ([www.ansi.org](http://www.ansi.org)) also provide recommended practices for hydraulic Hose Assemblies, and should be followed.

1.2 Fail-Safe: Hose, Hose Assemblies, Tube, Tube Assemblies and Fittings can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the Hose, Hose Assembly, Tube, Tube 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, Tube and Fitting products. Do not select or use Parker Hose, Tube 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, Tube and Fittings, Parker does not represent or warrant that any particular Hose, Tube 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.
- Following the safety guide for Related Accessories and being trained to operate Related Accessories.
- 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

# Parker Safety Guide

to [www.parker.com](http://www.parker.com), for telephone numbers of the appropriate technical service department.

## 2.0 HOSE, TUBE & 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, Tube and Fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor.

The electrical conductivity or nonconductivity of Hose, Tube 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 s 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, Tube 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 or dense magnetic fields, 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, Tube 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. All hoses that convey fuels must be grounded.

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; CSA 12.52, "Hoses for Natural Gas Vehicles and Dispensing Systems" ([www.ansi.org](http://www.ansi.org)). This Hose is labeled "Electrically Conductive for CNG Use" on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other Hose for CNG applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against CNG permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG Hose is intended for dispenser and vehicle use within the specified temperature range. Parker CNG Hose should not be used in confined spaces or unventilated areas or areas exceeding the specified temperature range. 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; CSA 12.52.

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, Tube and Fitting selection must be made so that the published maximum working pressure of the Hose, Tube and Fittings are equal to or greater than the maximum system pressure. The maximum working pressure of a

Hose  
A  
Fittings  
B  
Adapters & Valves  
C  
Quick Couplings  
D  
Accessories  
E  
General Technical  
F

## Parker Safety Guide

Hose, or Tube Assembly is the lower of the respective published maximum working pressures of the Hose, Tube and the Fittings used. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the Hose, Tube and Fitting. 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, Tube, Fitting and Seals. Temperatures below and above the recommended limit can degrade Hose, Tube, Fittings and Seals to a point where a failure may occur and release fluid. Tube and Fittings performances are normally degraded at elevated temperature. Material compatibility can also change at temperatures outside of the rated range. 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, and Tube Assembly selection must assure compatibility of the Hose tube, cover, reinforcement, Tube, Plating and Seals 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, and Tube that is chemically compatible with a particular fluid must be assembled using Fittings and adapters containing likewise compatible seals. Flange or flare processes can change Tube material properties that may not be compatible with certain requirements such as NACE

**2.6 Permeation:** Permeation (that is, see through the Hose or Seal) will occur from inside the Hose or Fitting to outside when Hose or Fitting 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 or Fitting 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 or Fitting even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the Hose or Tube Assembly. Permeation of moisture from outside the Hose or Fitting to inside the Hose or Fitting will also occur in Hose or Tube 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. The sudden pressure release of highly pressurized gas could also result in Explosive Decompression failure of permeated Seals and Hoses.

**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 should be installed in a manner that allows for ease of inspection and future replacement. Hose because of its relative short life, should not be used in residential and commercial buildings inside of inaccessible walls or floors, unless specifically allowed in the product literature. Always review all product literature for proper installation and routing instructions.

**2.9 Environment:** Care must be taken to insure that the Hose, Tube 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.

# Parker Safety Guide

**2.10 Mechanical Loads:** External forces can significantly reduce Hose, Tube and Fitting 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. Use of proper Hose or Tube clamps may also be required to reduce external mechanical loads. 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. Fittings with damages such as scratches on sealing surfaces and deformation should be replaced.

**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 determining the proper Hose or Tube length of an assembly, be aware of Hose length change due to pressure, Tube length change due to thermal expansion or contraction, and Hose or Tube and machine tolerances and movement must be considered. When routing short hose assemblies, it is recommended that the minimum free hose length is always used. Consult the hose manufacturer for their minimum free hose length recommendations. Hose assemblies should be installed in such a way that any motion or flexing occurs within the same plane.

**2.14 Specifications and Standards:** When selecting Hose, Tube and Fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

**2.15 Hose Cleanliness:** Hose and Tube components may vary in cleanliness levels. Care must be taken to insure that the Hose and Tube 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 or Tube require use of the same type of Hose or Tube as used with petroleum base fluids. Some such fluids require a special Hose, Tube, Fitting and Seal, while a few fluids will not work with any Hose at all. See instructions 2.5 and 1.5. The wrong Hose, Tube, Fitting or Seal 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 and Seals 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 or Seal. Performance of Tube and Fitting subjected to the heat could be degraded.

**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 or Seal 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. Any elastomer seal on fittings shall be removed prior to welding or brazing, any metallic surfaces shall be protected after brazing or welding when necessary. Welding and brazing filler material shall be compatible with the Tube and Fitting that are joined.

**2.19 Atomic Radiation:** Atomic radiation affects all materials used in Hose and Tube assemblies. Since the long-term effects may be unknown, do not expose Hose or Tube assemblies to atomic radiation. Nuclear applications may require special Tube and Fittings.

**2.20 Aerospace Applications:** The only Hose, Tube 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

# Parker Safety Guide

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](http://www.parker.com).

**3.3 Related Accessories:** Do not crimp or swage any Parker Hose or Fitting with anything but the listed swage or crimp machine and dies in accordance with Parker published instructions. Do not crimp or swage another manufacturer's Fitting with a Parker crimp or swage die unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

**3.4 Parts:** Do not use any Parker Fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

**3.5 Field Attachable/Permanent:** Do not reuse any field attachable Hose Fitting that has blown or pulled off a Hose. Do not reuse a Parker permanent Hose Fitting (crimped or swaged) or any part thereof. Complete Hose Assemblies may only be reused after proper inspection under section 4.0. Do not assemble Fittings to any previously used hydraulic Hose that was in service, for use in a fluid power application.

**3.6 Pre-Installation Inspection:** Prior to installation, a careful examination of the Hose Assembly

must be performed. Inspect the Hose Assembly for any damage or defects. DO NOT use any Hose Assembly that displays any signs of nonconformance.

**3.7 Minimum Bend Radius:** Installation of a Hose at less than the minimum listed bend radius may significantly reduce the Hose life. Particular attention must be given to preclude sharp bending at the Hose to Fitting juncture. Any bending during installation at less than the minimum bend radius must be avoided. If any Hose is kinked during installation, the Hose must be discarded.

**3.8 Twist Angle and Orientation:** Hose Assembly installation must be such that relative motion of machine components does not produce twisting.

**3.9 Securement:** In many applications, it may be necessary to restrain, protect, or guide the Hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.

**3.10 Proper Connection of Ports:** Proper physical installation of the Hose Assembly requires a correctly installed port connection insuring that no twist or torque is transferred to the Hose when the Fittings are being tightened or otherwise during use.

**3.11 External Damage:** Proper installation is not complete without insuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

**3.12 System Checkout:** All air entrapment must be eliminated and the system pressurized to the maximum system pressure (at or below the Hose maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

**3.13 Routing:** The Hose Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur. See section 2.4.

**3.14 Ground Fault Equipment Protection Devices (GFEPDs):** 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: ([www.ansi.org](http://www.ansi.org)) standard for heating cables recommends the use of GFEPDs with a nominal 30 milliampere trip level for "piping systems in classified areas, those areas requiring a high degree of mainte-

# Parker Safety Guide

nance, or which may be exposed to physical abuse or corrosive atmospheres”.

## 4.0 TUBE AND FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

**4.1 Component Inspection:** Prior to assembly, a careful examination of the Tube and Fittings must be performed. All components must be checked for correct style, size, material, seal, and length. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion, missing seal or other imperfections. Do NOT use any component that displays any signs of nonconformance.

**4.2 Tube and Fitting Assembly:** Do not assemble a Parker Fitting with a Tube 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. The Tube must meet the requirements specified to the Fitting. The Parker published instructions must be followed for assembling the Fittings to a Tube. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at [www.parker.com](http://www.parker.com).

**4.3 Related Accessories:** Do not preset or flange Parker Fitting components using another manufacturer's equipment or procedures unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Tube, Fitting component and tooling must be checked for correct style, size and material. Operation and maintenance of Related Accessories must be in accordance with the operation manual for the designated Accessory.

**4.4 Securement:** In many applications, it may be necessary to restrain, protect, or guide the Tube to protect it from damage by unnecessary flexing, pressure surges, vibration, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.

**4.5 Proper Connection of Ports:** Proper physical installation of the Tube Assembly requires a correctly installed port connection insuring that no torque is transferred to the Tube when the Fittings are being tightened or otherwise during use.

**4.6 External Damage:** Proper installation is not complete without insuring that tensile loads, side loads, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

**4.7 System Checkout:** All air entrapment must be eliminated and the system pressurized to the maximum system pressure (at or below the Tube Assembly maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potential hazard-

ous areas while testing and using.

**4.8 Routing:** The Tube 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.

## 5.0 HOSE AND FITTING MAINTENANCE AND REPLACEMENT INSTRUCTIONS

**5.1** 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. Certain products require maintenance and inspection per industry requirements. Failure to adhere to these requirements may lead to premature failure. A maintenance program must be established and followed by the user and, at minimum, must include instructions 5.2 through 5.7

**5.2 Visual Inspection Hose/Fitting:** Any of the following conditions require immediate shut down and replacement of the Hose Assembly:

- Fitting slip 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.

**5.3 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.

**5.4 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.

**5.5 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

Hose  
A

Fittings  
B

Adapters & Valves  
C

Quick Couplings  
D

Accessories  
E

General Technical  
F

# Parker Safety Guide

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.

**5.6 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.

**5.7 Elastomeric seals:** Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.

**5.8 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.

**5.9 Compressed natural gas (CNG):** Parker CNG Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per instructions provided on the Hose Assembly tag. The recommended procedure is to pressurize the Hose and check for leaks and to visually inspect the Hose for damage and to perform an electrical resistance test.

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.

## 6.0 HOSE STORAGE

**6.1 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. Unless otherwise specified by the manufacturer or defined by local laws and regulations:

**6.1.1** The shelf life of rubber hose in bulk form or hose made from two or more materials is 28 quarters (7 years) from the date of manufacture, with an extension of 12 quarters (3 years), if stored in accordance with ISO 2230;

**6.1.2** The shelf life of thermoplastic and polytetrafluoroethylene hose is considered to be unlimited;

**6.1.3** Hose assemblies that pass visual inspection and proof test shall not be stored for longer than 2 years.

**6.1.4 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.



# Offer of Sale

**1. Definitions.** As used herein, the following terms have the meanings indicated.

**Buyer:** means any customer receiving a Quote for Products from Seller.

**Goods:** means any tangible part, system or component to be supplied by the Seller.

**Products:** means the Goods, Services and/or Software as described in a Quote provided by the Seller.

**Quote:** means the offer or proposal made by Seller to Buyer for the supply of Products.

**Seller:** means Parker-Hannifin Corporation, including all divisions and businesses thereof.

**Services:** means any services to be supplied by the Seller.

**Software:** means any software related to the Products, whether embedded or separately downloaded.

**Terms:** means the terms and conditions of this Offer of Sale or any newer version of the same as published by Seller electronically at [www.parker.com/salesterms](http://www.parker.com/salesterms).

**2. Terms.** All sales of Products by Seller are contingent upon, and will be governed by, these Terms and, these Terms are incorporated into any Quote provided by Seller to any Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic date interface or other electronic commerce, shall constitute acceptance of these Terms. Seller objects to any contrary or additional terms or conditions of Buyer. Reference in Seller's order acknowledgement to Buyer's purchase order or purchase order number shall in no way constitute an acceptance of any of Buyer's terms of purchase. No modification to these Terms will be binding on Seller unless agreed to in writing and signed by an authorized representative of Seller.

**3. Price; Payment.** The Products set forth in Seller's Quote are offered for sale at the prices indicated in Seller's Quote. Unless otherwise specifically stated in Seller's Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices at any time to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). All sales are contingent upon credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law.

**4. Shipment; Delivery; Title and Risk of Loss.** All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise agreed, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferral of shipment at Buyers' request beyond the respective indicated shipping date 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 acts or omissions.

**5. Warranty.** The warranty related to the Products is as follows: (i) Goods are warranted against defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of use, whichever occurs first; (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the completion of the Services by Seller; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer:

**DISCLAIMER OF WARRANTY:** THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR FAULT-TOLERANT, OR THAT BUYER'S USE THEREOF WILL BE SECURE OR UNINTERRUPTED. BUYER AGREES AND ACKNOWLEDGES THAT UNLESS OTHERWISE AUTHORIZED IN WRITING BY SELLER THE SOFTWARE SHALL NOT BE USED IN CONNECTION WITH HAZARDOUS OR HIGH RISK ACTIVITIES OR ENVIRONMENTS. EXCEPT AS EXPRESSLY STATED HEREIN, ALL PRODUCTS ARE PROVIDED "AS IS".

**6. Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

**7. LIMITATION OF LIABILITY.** IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCT, RE-PERFORM THE SERVICES, OR REFUND THE PURCHASE PRICE PAID WITHIN A REASONABLE PERIOD OF TIME. IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, NON-COMPLETION OF SERVICES, USE, LOSS OF USE OF, OR INABILITY TO USE THE PRODUCTS OR ANY PART THEREOF, LOSS OF DATA, IDENTITY, PRIVACY, OR CONFIDENTIALITY, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS.

**8. Loss to Buyer's Property.** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which are or become Buyer's property, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

**9. Special Tooling.** Special Tooling includes but is not limited to tooling, jigs, fixtures and associated manufacturing equipment acquired or necessary to manufacture Products. A tooling charge may be imposed for any Special Tooling. 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 Special Tooling belonging to Seller that is utilized in the manufacture of the Products, even if such Special Tooling has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property in its sole discretion at any time.

**10. Security Interest.** To secure payment of all sums due, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be 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.

**11. User Responsibility.** The Buyer through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. The

# Offer of Sale

Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and other technical information provided with the Product. If Seller provides Product options based upon data or specifications provided by the Buyer, the Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event the Buyer is not the end-user, Buyer will ensure such end-user complies with this paragraph.

**12. Use of Products, Indemnity by Buyer.** Buyer shall comply with all instructions, guides and specifications provided by Seller with the Products. Unauthorized Uses. If Buyer uses or resells the Products for any uses prohibited in Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such use, resale, or non-compliance is at Buyer's sole risk. Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, intellectual property infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, application, design, specification or other misuse of Products provided by Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, tooling, equipment, plans, drawings, designs or specifications or other information or things furnished by Buyer; (d) damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing or tampering with the Products for any reason; or (e) Buyer's failure to comply with these Terms. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

**13. Cancellations and Changes.** Buyer may not cancel or modify any order 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, at any time, may change Product features, specifications, designs and availability.

**14. Limitation on Assignment.** Buyer may not assign its rights or obligations without the prior written consent of Seller.

**15. Force Majeure.** Seller does not assume the risk and is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control ("Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

**16. Waiver and Severability.** Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of these Terms by legislation or other rule of law shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

**17. Termination.** Seller may terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or one if filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.

**18. Ownership of Software.** Seller retains ownership of all Software supplied to Buyer hereunder. In no event shall Buyer obtain any greater right in and to the Software than a right in the nature of a license limited to the use thereof and subject to compliance with any other terms provided with the Software.

**19. Indemnity for Infringement of Intellectual Property Rights.** Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights ("Intellectual Property Rights") except as provided in this Section. 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 a third party claim that one or more of the Products sold hereunder infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by the Seller to the Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products sold hereunder is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products so as to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer; or (ii) directed to any Products provided hereunder for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products provided hereunder. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for such claims of infringement of Intellectual Property Rights.

**20. Governing Law.** These Terms and the sale and delivery of all Products are 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 the sale and delivery of the Products.

**21. Entire Agreement.** These Terms, along with the terms set forth in the main body of any Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. In the event of a conflict between any term set forth in the main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.

**22. Compliance with Laws.** Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer acknowledges that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Product from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws.

5/2017

# Part Number Index

|                   |      |             |      |                |                  |
|-------------------|------|-------------|------|----------------|------------------|
| 115 Coupler.....  | D-13 | 15KP01..... | C-42 | 1TM2X.....     | B-74             |
| 115 Nipple.....   | D-14 | 15Y8X.....  | B-21 | 1TMBL.....     | B-74             |
| 116 Coupler.....  | D-15 | 16Y2X.....  | B-10 | 1TMBS.....     | B-74             |
| 116 Nipple.....   | D-16 | 1922X.....  | B-11 | 1TMKY.....     | B-74             |
| 125 Coupler.....  | D-17 | 1923X.....  | B-12 | 1Y25X.....     | B-15             |
| 125 Nipple.....   | D-17 | 1928X.....  | B-20 | 1Y28X.....     | B-23             |
| 216.....          | E-3  | 192LX.....  | B-48 | 1Y2LX.....     | B-54             |
| 220.....          | E-3  | 19G8X.....  | B-19 | 1Y2UX.....     | B-64             |
| 412.....          | E-3  | 19GE3.....  | B-35 | 1Y42X.....     | B-11             |
| 508.....          | E-3  | 19GE4.....  | B-35 | 1Y4KY.....     | B-44             |
| 510.....          | E-3  | 19M8X.....  | B-20 | 1Y4LX.....     | B-55             |
| 520.....          | E-3  | 19ME3.....  | B-34 | 1YHLX.....     | B-56             |
| 620.....          | E-3  | 19ME4.....  | B-34 | 1YHTX.....     | B-63             |
| 01D9.....         | C-39 | 19W8X.....  | B-20 | 201RX.....     | B-60             |
| 02D9.....         | C-40 | 19WE3.....  | B-34 | 2020N.....     | A-18             |
| 02Y5.....         | C-32 | 19WE4.....  | B-34 | 2022N.....     | A-20             |
| 02Y6.....         | C-38 | 1AY2X.....  | B-10 | 206RX.....     | B-60             |
| 106E3.....        | B-36 | 1AY5X.....  | B-14 | 2240D.....     | A-22             |
| 137E3.....        | B-36 | 1AY8X.....  | B-22 | 2240N.....     | A-62, A-64       |
| 139E3.....        | B-35 | 1AYBL.....  | B-28 |                |                  |
| 106E4.....        | B-36 | 1AYBS.....  | B-29 | 2248D.....     | A-22             |
| 137E4.....        | B-36 | 1AYCX.....  | B-33 | 2248N.....     | A-64             |
| 139E4.....        | B-35 | 1AYJX.....  | B-42 | 2380N.....     | A-26, A-28       |
| 1018X.....        | B-17 | 1AYKY.....  | B-43 | 2380N...W..... | A-26             |
| 101BL.....        | B-27 | 1AYLX.....  | B-49 | 2388N.....     | A-30             |
| 101BS.....        | B-29 | 1AYTX.....  | B-63 | 2388N...W..... | A-30             |
| 101EX.....        | B-37 | 1AYUX.....  | B-64 | 2390N.....     | A-32             |
| 101HP.....        | B-39 | 1C38X.....  | B-22 | 2440D.....     | A-34             |
| 101KY.....        | B-43 | 1C93X.....  | B-13 | 2440M.....     | A-68             |
| 101LX.....        | B-45 | 1C98X.....  | B-22 | 2440N.....     | A-36, A-38, A-62 |
| 101NX.....        | B-57 | 1C9BL.....  | B-28 | 2448D.....     | A-34             |
| 101TX.....        | B-61 | 1C9BS.....  | B-30 | 2448M.....     | A-68             |
| 1028X.....        | B-17 | 1C9CX.....  | B-33 | 2448N.....     | A-38, A-60       |
| 102TX.....        | B-62 | 1C9EX.....  | B-38 | 2580M.....     | A-66             |
| 1063X.....        | B-12 | 1C9JX.....  | B-42 | 2580N.....     | A-40, A-60       |
| 1068X.....        | B-18 | 1C9LX.....  | B-51 | 2640D.....     | A-42             |
| 106EX.....        | B-37 | 1D98X.....  | B-23 | 2640M.....     | A-66, A-68       |
| 106HP.....        | B-39 | 1HE5X.....  | B-69 | 2640N.....     | A-44, A-58, A-62 |
| 106HV.....        | B-40 | 1HECX.....  | B-70 | 2648N.....     | A-44, A-60       |
| 106LX.....        | B-47 | 1HELX.....  | B-70 | 2740D.....     | A-46             |
| 106NX.....        | B-58 | 1HES6.....  | B-70 | 2748D.....     | A-46             |
| 106TX.....        | B-62 | 1HETX.....  | B-71 | 2749D.....     | A-46             |
| 10K06-**-CAP..... | C-46 | 1HN5X.....  | B-72 | 2840D.....     | A-48             |
| 10KP01.....       | C-42 | 1HNCX.....  | B-73 | 2848D.....     | A-48             |
| 10KP03.....       | C-46 | 1HNLX.....  | B-72 | 2849D.....     | A-50             |
| 1378X.....        | B-19 | 1HNS6.....  | B-72 | 2TURX.....     | B-60             |
| 1398X.....        | B-19 | 1HNTX.....  | B-73 | 57CR.....      | A-54             |
| 15K02-**-CAP..... | C-42 | 1MB8X.....  | B-23 | 5Y**-CAP.....  | C-20             |

A Hose  
 B Fittings  
 C Adapters & Valves  
 D Quick Couplings  
 E Accessories  
**F General Technical**

# Part Number Index

|               |            |                                      |      |                       |      |
|---------------|------------|--------------------------------------|------|-----------------------|------|
| 5Y01.....     | C-31       | 6YHLX.....                           | B-55 | MHDC.....             | E-3  |
| 5Y02.....     | C-34       | 6YMWX.....                           | B-66 | MK022.....            | E-4  |
| 5Y5Y.....     | C-17       | 6YY5.....                            | C-14 | MSG.....              | E-3  |
| 5Y6Y.....     | C-18       | 6YY6.....                            | C-21 | MTM04T.....           | E-5  |
| 5YY5.....     | C-12       | 80C.....                             | E-5  | PVC.....              | E-3  |
| 5YY6.....     | C-15       | 83C.....                             | E-5  | SV5Y.....             | C-48 |
| 6015X.....    | B-67       | AV5Y.....                            | C-48 | SV6Y.....             | C-50 |
| 6018X.....    | B-16       | AV6Y.....                            | C-50 | T5Y.....              | C19  |
| 6019X.....    | B-24       | AY**-CAP.....                        | C-10 | T6Y.....              | C-23 |
| 601EX.....    | B-37       | C09.....                             | D-18 | TFTF.....             | B-74 |
| 601LX.....    | B-46       | C19.....                             | D-18 | TMCAP.....            | B-74 |
| 601NX.....    | B-57       | CV5Y.....                            | C-49 | TV15Y.....            | C-49 |
| 6068X.....    | B-18       | CV6Y.....                            | C-52 | TV16Y.....            | C-51 |
| 6069X.....    | B-25       | G214.....                            | E-5  | TV25Y.....            | C-49 |
| 606CR.....    | B-31       | HAHM4BM4.....                        | D-18 | TV26Y.....            | C-51 |
| 606LX.....    | B-46       | HBPHM.....                           | C-24 | X5Y.....              | C19  |
| 606NX.....    | B-58       | HBPLM.....                           | C20  | X6Y.....              | C-24 |
| 65Y LX.....   | B-48       | HCR.....                             | A-52 | X6Y6.....             | C-22 |
| 65Y8X.....    | B-21       | HP.....                              | A-56 | Y204.....             | C-20 |
| 66A5X.....    | B-67       | HP006 Coupler.....                   | D-6  | Y206.....             | C-20 |
| 66ACR.....    | B-31, B-32 | HP006 Nipple<br>w/o Check Valve..... | D-7  | Y209.....             | C-20 |
| 66Y LX.....   | B-48       | HP006 Nipple<br>w/Check Valve.....   | D-8  | Y212.....             | C-20 |
| 68K5X.....    | B-68       | HP010 Coupler.....                   | D-9  | Y216.....             | C-20 |
| 692LX.....    | B-47       | HP010 Nipple<br>w/o Check Valve..... | D-10 | Y2C.....              | C20  |
| 6AY5X.....    | B-14       | HP010 Nipple<br>w/Check Valve.....   | D-11 | Y2N.....              | C19  |
| 6AY8X.....    | B-21       | HP8.....                             | A-56 | Y404, Y406, Y409..... | C-25 |
| 6AY9X.....    | B-25       | HPK.....                             | B-74 | Y4C.....              | C-24 |
| 6AY LX.....   | B-50       | K0101.....                           | C-27 | Y4N.....              | C-24 |
| 6AYNX.....    | B-59       | K0201.....                           | C-28 | Y501.....             | C-33 |
| 6AYWX.....    | B-66       | K0202.....                           | C-29 | Y503.....             | C-45 |
| 6C95X.....    | B-14       | K0203.....                           | C-39 | Y5D9.....             | C-16 |
| 6C9 LX.....   | B-51       | K0303.....                           | C-44 | Y5Y5.....             | C-13 |
| 6EZAX.....    | B-26       | K0306.....                           | C-44 | Y5Y6.....             | C-16 |
| 6HB5X.....    | B-68       | K0606.....                           | C-44 | Y601.....             | C-37 |
| 6HE5X.....    | B-69       | KCGL.....                            | C-25 | Y603.....             | C-46 |
| 6HELX.....    | B-52       | KL02.....                            | C-40 | Y6D9.....             | C-23 |
| 6HN5X.....    | B-71       | KT02.....                            | C-41 | Y6TF.....             | B-74 |
| 6HNLX.....    | B-52       | KX02.....                            | C-41 | Y6Y6.....             | C-22 |
| 6HY LX.....   | B-53       | L5Y.....                             | C-18 | YA**-PLUG.....        | C-10 |
| 6Y**-CAP..... | C-25       | L6Y.....                             | C-23 | YA01.....             | C-30 |
| 6Y01.....     | C-36       | MBR.....                             | E-3  | YA02.....             | C-29 |
| 6Y02.....     | C-35       | MCG.....                             | E-4  | YA03.....             | C-45 |
| 6Y25X.....    | B-15       | MCGHS.....                           | E-4  | YAD9.....             | C-9  |
| 6Y2HX.....    | B-41       | MHBS.....                            | E-4  | YAY1.....             | C-10 |
| 6Y2 LX.....   | B-53       |                                      |      | YAY2.....             | C-10 |
| 6Y4 LX.....   | B-54       |                                      |      | YAY5.....             | C-9  |
| 6Y4WX.....    | B-65       |                                      |      | YAY6.....             | C-8  |
| 6Y6Y.....     | C-22       |                                      |      | YAYA.....             | C-8  |

















# Parker Fluid Connectors Group

## North American Divisions & Distribution Service Centers

**Your complete source** for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

### **Fittings:**

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

### **Hose, Tubing & Bundles:**

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

### **Worldwide Availability:**

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

**For information**, call toll free...

**1-800-C-PARKER  
(1-800-272-7537)**

### **North American Divisions**

#### **Fluid System Connectors Division**

Otsego, MI  
phone 269 694 9411  
fax 269 694 4614

#### **Hose Products Division**

Wickliffe, OH  
phone 440 943 5700  
fax 440 943 3129

#### **Industrial Hose Division**

Wickliffe, OH  
phone 440 883 2120  
fax 440 833 2230

#### **Parflex Division**

Ravenna, OH  
phone 330 296 2871  
fax 330 296 8433

#### **Quick Coupling Division**

Minneapolis, MN  
phone 763 544 7781  
fax 763 544 3418

#### **Tube Fittings Division**

Columbus, OH  
phone 614 279 7070  
fax 614 279 7685

### **Distribution Service Centers**

#### **Buena Park, CA**

phone 714 522 8840  
fax 714 994 1183

#### **Conyers, GA**

phone 770 929 0330  
fax 770 929 0230

#### **Louisville, KY**

phone 502 937 1322  
fax 502 937 4180

#### **Portland, OR**

phone 503 283 1020  
fax 503 283 2201

#### **Toledo, OH**

phone 419 878 7000  
fax 419 878 7001  
fax 419 878 7420  
(FCG Kit Operations)

#### **Canada**

##### **Grimsby, ONT**

phone 905 945 2274  
fax 905 945 3945  
(Contact Grimsby for other Service Center locations.)

#### **Mexico**

##### **Toluca, MEX**

phone (52) 722 2754 200  
fax (52) 722 2722 168

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