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Quick Coupling Products

Quick Couplings, Swivels, Valves,
Diagnostic Equipment
Catalog 3800 USA | February 2014



ENGINEERING YOUR SUCCESS.

Quick Coupling Division Locations



Minneapolis, MN



Grantsburg, WI



Chetek, WI



Union City, PA

WARNING

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Offer of Sale

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

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Hydraulic Quick Couplings

Double Shut-Off and Straight-Thru Couplings

Parker hydraulic couplings have a wide variety of designs, each tailored to a particular application or use. This catalog is arranged according to those categories. In each section the construction of a specific design will be detailed. However, based on the valving of the coupling, hydraulic couplings generally fall into one of two groups, either Double Shut-Off or Straight-Thru.

Double Shut-Off couplings are used extensively when it is important to minimize fluid loss upon disconnection. Both halves of the coupler, the body and the nipple, contain shut-off valves. These valves open automatically when the body and nipple are connected, and close automatically when the two halves are disconnected—keeping fluid loss to a minimum.

Parker Straight-Thru couplings have no valves in either half and are ideal for maximum flow application. Their smooth, open bore offers the lowest pressure drop of any quick disconnect coupling, and allows them to be thoroughly cleaned. Since there are no valves in either half, fluid flow should be shut off before the coupling is disconnected.

Rated Pressure

Rated pressure for the Parker hydraulic couplings range from 30 to 15,000 psi, depending on the coupling series, size and materials. Rated pressures as shown in this catalog are defined by ISO 5598, as “the qualified operating pressures which are recommended for a component or a system by the manufacturer.” Parker “Rated Pressures” have been established on the basis of laboratory tests which include, but are not limited to, static burst tests and multiple cycle impulse tests. System characteristics such as high cycling rates and high amplitude shocks either hydraulic or mechanical, can reduce the functioning life of a coupling, even if the system’s nominal pressure falls within the rated pressure range of the coupling.

For assistance in analyzing your application, contact your nearest Parker sales office or the Quick Coupling Division in Minneapolis.

Refer to the Safety Guide at the end of this catalog for considerations when selecting a Quick Coupling.

Refer to the Fluid Compatibility Chart (note Table of Contents) for seal selection assistance for both Double Shut-Off and Straight-Thru couplings.

Checklist for Selecting Quick Couplings

- What are the functional requirements of the coupling?
- What is the maximum working pressure of the application?
- Which seals and body material are compatible with the system’s fluid?
- Is the application static or dynamic?
- What size coupler is required?
- What is the maximum pressure drop suitable for the application?
- Does the application require the ability to connect and disconnect under pressure?
- What is the media temperature and ambient temperature?
- What end configurations are required?
- Is an industry interchange coupler required?
- Is air inclusion and fluid loss a concern in the application?

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| Body Sizes (in.) | Valving Style | Material | | | | | | Locking Mechanism | Std Seal Material* | Std Seal Temp Range | Rated Pressure | Coupling Series |
|---|-------------------|----------|---|---|----|----|----|-------------------|----------------------|---------------------|-------------------|--------------------------|
| | | A | B | S | S3 | S6 | HP | | | | | |
| General Purpose | | | | | | | | | | | | |
| 1/8 to 2-1/2 | Poppet | | ■ | ■ | ■ | ■ | | Ball | Nitrile | -40° to +250° F | 800-5000 psi | 60 Series |
| 1/4 to 1 | Poppet | | ■ | | | | | Ball | Ethylene Propylene | -65° to +400° F | | 60 Series (steam) |
| 1/4 to 1 | Poppet | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 4000-5000 psi | 6600 Series |
| 1/4 to 4 | Poppet/Unvalved | ■ | ■ | ■ | | ■ | | Ball | Nitrile | -40° to +250° F | 150 - 11000 psi | H Series |
| 1/4 to 3/4 | Valved/Unvalved | | ■ | ■ | | ■ | | Ball | Nitrile | -40° to +250° F | vacuum - 3000 psi | EA Series |
| 1/4 to 3/4 | Poppet | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 4500-6000 psi | SM Series |
| 1 to 1-1/2 | Poppet | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 5000 psi | HP Series |
| 1/4 to 1 | Poppet/Ball | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 3000 psi | 4000 Series |
| 3/8 to 1/2 | Poppet/Ball | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 3000 psi | 4200 Series |
| Non-Spill | | | | | | | | | | | | |
| 3/8 to 1 | Flush Face | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 2500 psi | NS Series |
| 1/2 | Flush Face/Poppet | | ■ | ■ | | | | Ball | Nitrile/Polyurethane | -40° to +250° F | 3000-3625 psi | EAS/SAE Adapters |
| 1/4 to 1 | Flush Face | | ■ | ■ | | | | Ball | Nitrile/Polyurethane | -40° to +250° F | 3000-5000 psi | FF Series |
| 1/4 to 1 | Flush Face | | ■ | ■ | | | | Ball | Nitrile/Polyurethane | -40° to +250° F | 3000-5000 psi | FEM Series |
| 1/4 to 1 | Flush Face | | ■ | ■ | | ■ | | Ball | Fluorocarbon | -15° to +400° F | 2000 psi | FS Series |
| Non-Spill Connect Under Pressure | | | | | | | | | | | | |
| 3/8 to 1-1/2 | Flush Face | | ■ | ■ | | | | Threads | Nitrile/Polyurethane | -40° to +250° F | 6000 psi | FET Series |
| 3/8 to 3/4 | Flush Face | | ■ | ■ | | | | Ball | Nitrile/Polyurethane | -40° to +250° F | 3000 psi | FC Series |
| 1/2 to 3/4 | Flush Face | | ■ | ■ | | | | Ball | Nitrile/Polyurethane | -40° to +250° F | 3000 psi | FEC Series |
| 3/4 to 1-1/2 | Flush Face | | ■ | ■ | | | | Threads | Nitrile | -40° to +250° F | 2000-3000 psi | 6100 Series |
| Connect Under Pressure | | | | | | | | | | | | |
| 1/2 | Poppet | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 3000 psi | 8200 Series |
| 1/2 | Poppet | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 3000 psi | 9200 Series |
| 1/2 | Ball | | ■ | ■ | | | | Threads | Nitrile | -40° to +250° F | 2500 psi | 5000 Series |
| 3/4 to 4 | Poppet | | ■ | ■ | | ■ | | Threads | Nitrile | -40° to +250° F | 5000 psi | 75 Series |
| High Pressure | | | | | | | | | | | | |
| 1/4 to 2 | Flush Face | | ■ | ■ | | ■ | ■ | Ball | Nitrile | -40° to +250° F | 10,000 ps | 71 Series |
| 3/8 | Flush Face | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 10,000 psi | FH Series |
| 1/4 to 3/8 | Ball | | ■ | ■ | | | | Threads | Polyurethane | -22° to +230° F | 10,000 psi | 3000 Series |
| 3/8 | Poppet | | ■ | ■ | | | | Ball | Fluorocarbon | -15° to +400° F | 10,000 psi | TC Series |
| 1/4 | Poppet | | ■ | ■ | | ■ | | Threads | Polyurethane | -22° to +230° F | 10,000 psi | 1141 Series |
| High Flow | | | | | | | | | | | | |
| 1/8 to 1-1/2 | Unvalved | | ■ | ■ | ■ | | | Ball | Nitrile | -40° to +250° F | 2500-6700 psi | ST Series |
| 1/4 to 1/2 | Unvalved | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 10,000-15,000 psi | H0 Series |
| 3/4 | Unvalved | | ■ | ■ | | | | Ball | Nitrile | -40° to +250° F | 200 psi | 1163 Series |
| Mold Coolant | | | | | | | | | | | | |
| 1/4 to 1/2 | Valved/Unvalved | | ■ | ■ | | | | Ball | Silicone | -20° to +400° F | 200 psi | Moldmate |
| Miniature | | | | | | | | | | | | |
| 1/8 | Poppet | | ■ | ■ | | | | Ball | Fluorocarbon | -15° to +400° F | 250 psi | DM Series |

Materials:

A - Aluminum

B - Brass

S - Steel

S3 - 303 Stainless

S6 - 316 Stainless

HP - High Pressure Stainless Steel



***Seal Material Options**

| Seal Code | Seal Material | Optional for the Following Series |
|-----------|--------------------|--|
| W | Ethylene Propylene | 60, 6600, 4000, 4200, 6100, 5000, 8200, 9200, ST |
| Y | Fluorocarbon | 60, 6600, 4000, 4200, 6100, 5000, 8200, 9200, ST, Moldmate |
| Z | Neoprene | 60, 6600, 4000, 4200, 6100, 5000, 8200, 9200, ST |
| E5 | Ethylene Propylene | SM, HP, NS, FF, FEM, FH, FS, HO |
| E4 | Fluorocarbon | SM, HP, NS, FF, FEM, FH, HO |
| E12 | Neoprene | SM, HP, NS, FF, FEM, FH, FS, HO |
| E35 | Perfluoroelastomer | SM, HP, NS, FF, FEM, FH, FS (Contact QCD) |
| E | Ethylene Propylene | H, EA, 71, 75 |
| V | Fluorocarbon | H, EA, 71, 75 |

To select proper seal materials, see Fluid Compatibility Chart or contact QCD.
Contact QCD for additional seal material options.

B Hydraulics





60 Series double shut-off couplings are versatile for use across a spectrum of hydraulic applications where fluid lines require connection and disconnection. Couplers and nipples are available in a wide range of sizes and materials.

Features:

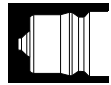
- Accepts ISO 7241-1, Series B compliant nipples
- Poppet valves along with a metal to metal valve stop maintains valve alignment and prevents flow checking
- Steel, brass, and stainless steel material options
- Brass couplers have double O-rings and stainless steel locking balls
- Steel coupler sleeve and steel nipple body are hardened to be wear resistant
- Standard end configurations include female pipe and straight thread ORB
- Optional Sleeve-Lok and alternative seal materials available

Applications include:

- Industrial hydraulic lines
- Food and chemical processing
- Water and coolant lines
- Mobile equipment
- May be used with some gases

| General Purpose Specifications | | | | | | | | | | | | | | | | | |
|---|----------------------|------|------|------|------|------|-------|-------|--|------|------|------|------|------|-------|-------|--|
| Industry Standard: Parker 60 Series couplings comply with ISO 7241 Series B Standard. | | | | | | | | | | | | | | | | | |
| ANSI/ISO Pressure Rating: Dynamic applications with normal to moderate hydraulic shocks such as general industrial equipment, hydraulic presses, agricultural equipment, etc. Impulse tested at a multiple (125% to 133%) of rated pressure. | | | | | | | | | Low Cycle, Non-pulsating Pressure Rating: Applications with lower cycle life and no severe cyclic pressure fluctuations, essentially steady pressure during an operating cycle. Typical applications include hydraulic jacks, mine roof support systems, and high pressure fluid transfer (pumping water or slurry in oil wells). Minor pump ripple is considered non-pulsating. Impulse tested at rated pressure. | | | | | | | | |
| Body Size | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/2 | 2 1/2 | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/2 | 2 1/2 | |
| | Rated Pressure (psi) | | | | | | | | Rated Pressure (psi) | | | | | | | | |
| Brass | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 800 | 800 | 3000 | 3700 | 2700 | 3500 | 2200 | 1500 | 1500 | 1200 | |
| Stainless steel | 2000 | 2000 | 1500 | 1500 | 1500 | 1000 | 1000 | 1000 | 5000 | 5000 | 5000 | 5000 | 3000 | 3000 | 1500 | 1500 | |
| Steel | 5000 | 5000 | 4000 | 4000 | 2500 | 2000 | 1000 | 1000 | 5000 | 5000 | 4000 | 4000 | 2500 | 2000 | 1500 | 1500 | |
| Steel w/ HD nipple | N/A | 5000 | 4000 | 4000 | 3000 | 3000 | N/A | N/A | 5000 | 5000 | 4000 | 4000 | 3000 | 3000 | N/A | N/A | |
| Seal Temperature Range: Nitrile: -40°F to +250°F (Standard seal for Brass, Steel, & 303 Stainless Steel couplings). Fluorocarbon: -15°F to +400°F (Standard seal for 316 Stainless Steel couplings). Other Seal materials: Contact the Division for availability. | | | | | | | | | | | | | | | | | |
| Vacuum Data: 27.4 inches Hg (-0.9 Bar) both connected and disconnected. (1-1/2" and 2-1/2" body size 60 Series couplings are not recommended for service in disconnected mode) | | | | | | | | | | | | | | | | | |

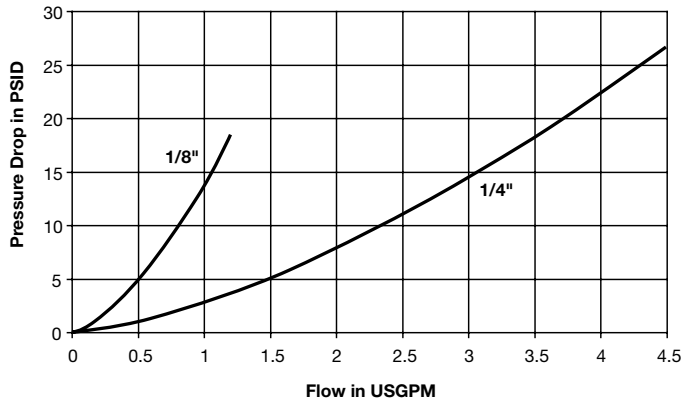
| Body Size | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/2 | 2 1/2 |
|-------------------------|-----|-----|-----|-----|-----|----|-------|-------|
| Rated Flow (gpm) | .8 | 3 | 6 | 12 | 28 | 50 | 100 | 200 |



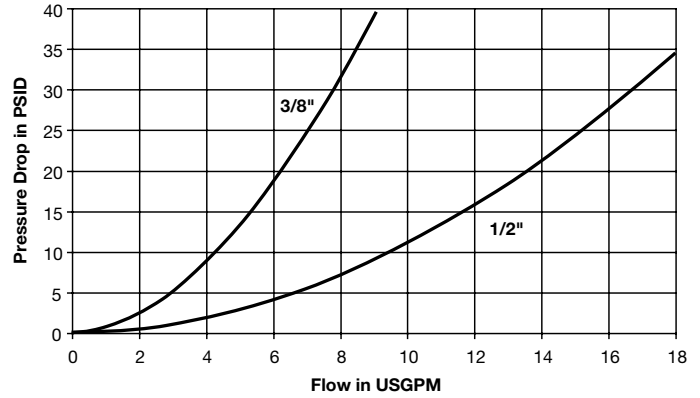
Performance

B Hydraulics

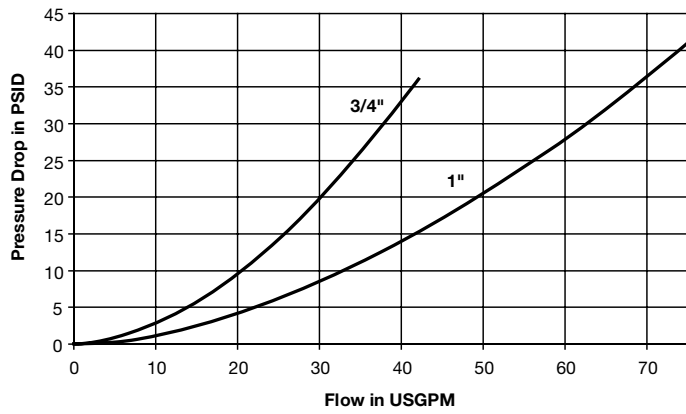
60 Series (1/8" & 1/4")
 Test Fluid: Oil - 150 SUS



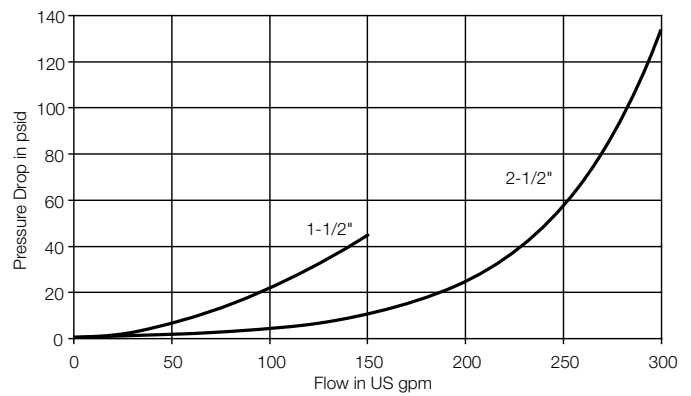
60 Series (3/8" & 1/2")
 Test Fluid: Oil - 150 SUS



60 Series (3/4" & 1")
 Test Fluid: Oil - 150 SUS



60 Series (1-1/2" & 2-1/2")
 Test Fluid: Oil - 200 SUS





Couplers - Female Thread



| Body Size | Part No. Brass | Weight (lbs.) | Part No. Steel | Weight (lbs.) | Part No. Type 303 Stainless | Weight (lbs.) | Part No. Type 316 Stainless | Weight (lbs.) | Thread Size | Overall Length | Wrench Flats | Largest Diameter |
|-----------|----------------|---------------|----------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------|----------------|--------------|------------------|
| 1/8 | BH1-60 | 0.16 | H1-62 | 0.16 | SH1-62 | 0.16 | SSH1-62Y | 0.15 | 1/8-27 NPTF | 1.90 | 0.68 | 0.96 |
| 1/8 | - | - | H1-62-T4 | 0.18 | SH1-62-T4 | 0.10 | SSH1-62Y-T4 | 0.17 | 7/16-20 ORB | 2.06 | 0.68 | 0.96 |
| 1/4 | BH2-60 | 0.32 | H2-62 | 0.30 | SH2-62 | 0.30 | SSH2-62Y | 0.30 | 1/4-18 NPTF | 2.26 | 0.81 | 1.14 |
| 1/4 | - | - | H2-62-T6 | 0.31 | SH2-62-T6 | 0.31 | SSH2-62Y-T6 | 0.31 | 9/16-18 ORB | 2.41 | 0.81 | 1.14 |
| 3/8 | BH3-60 | 0.43 | H3-62 | 0.40 | SH3-62 | 0.40 | SSH3-62Y | 0.40 | 3/8-18 NPTF | 2.49 | 0.88 | 1.40 |
| 3/8 | - | - | H3-62-T8 | 0.51 | SH3-62-T8 | 0.51 | SSH3-62Y-T8 | 0.51 | 3/4-16 ORB | 2.75 | 1.00 | 1.40 |
| 1/2 | BH4-60 | 0.80 | H4-62 | 0.73 | SH4-62 | 0.75 | SSH4-62Y | 0.76 | 1/2-14 NPTF | 2.87 | 1.12 | 1.77 |
| 1/2 | - | - | H4-62-T10 | 0.78 | SH4-62-T10 | 0.75 | SSH4-62Y-T10 | 0.78 | 7/8-14 ORB | 3.05 | 1.12 | 1.77 |
| 3/4 | BH6-60 | 1.31 | H6-62 | 1.30 | SH6-62 | 1.31 | SSH6-62Y | 1.33 | 3/4-14 NPTF | 3.56 | 1.31 | 2.14 |
| 3/4 | - | - | H6-62-T12 | 1.39 | SH6-62-T12 | 1.34 | SSH6-62Y-T12 | 1.40 | 1-1/16 - 12 ORB | 3.56 | 1.31 | 2.14 |
| 1 | BH8-60 | 1.95 | H8-62 | 1.95 | SH8-62 | 1.95 | SSH8-62Y | 1.95 | 1 - 11 1/2 NPTF | 4.18 | 1.62 | 2.52 |
| 1 | - | - | H8-62-T16 | 1.95 | SH8-62-T16 | 1.95 | SSH8-62Y-T16 | 1.95 | 1-5/16 - 12 ORB | 4.18 | 1.62 | 2.52 |

Nipples - Female Thread



| Body Size | Part No. Brass | Weight (lbs.) | Part No. Steel | Weight (lbs.) | Part No. Type 303 Stainless | Weight (lbs.) | Part No. Type 316 Stainless | Weight (lbs.) | Thread Size | Overall Length | Exposed Length* | Wrench Flats | Largest Diameter |
|-----------|----------------|---------------|----------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------|----------------|-----------------|--------------|------------------|
| 1/8 | BH1-61 | 0.04 | H1-63 | 0.03 | SH1-63 | 0.03 | SSH1-63Y | 0.04 | 1/8-27 NPTF | 1.26 | 0.44 | 0.56 | 0.65 |
| 1/8 | - | 0.06 | H1-63-T4 | 0.05 | SH1-63-T4 | - | SSH1-63Y-T4 | 0.06 | 7/16-20 ORB | 1.41 | 0.59 | 0.69 | 0.78 |
| 1/4 | BH2-61 | 0.09 | H2-63 | 0.08 | SH2-63 | 0.08 | SSH2-63Y | 0.08 | 1/4-18 NPTF | 1.54 | 0.55 | 0.75 | 0.87 |
| 1/4 | - | 0.11 | H2-63-T6 | 0.10 | SH2-63-T6 | 0.10 | SSH2-63Y-T6 | 0.10 | 9/16-18 ORB | 1.69 | 0.70 | 0.88 | 1.01 |
| 3/8 | BH3-61 | 0.10 | H3-63 | 0.12 | SH3-63 | 0.12 | SSH3-63Y | 0.12 | 3/8-18 NPTF | 1.68 | 0.54 | 0.88 | 1.01 |
| 3/8 | - | 0.12 | H3-63-T8 | 0.16 | SH3-63-T8 | 0.16 | SSH3-63Y-T8 | 0.14 | 3/4-16 ORB | 1.94 | 0.80 | 1.00 | 1.15 |
| 1/2 | BH4-61 | 0.25 | H4-63 | 0.24 | SH4-63 | 0.24 | SSH4-63Y | 0.24 | 1/2-14 NPTF | 1.94 | 0.69 | 1.12 | 1.30 |
| 1/2 | - | 0.28 | H4-63-T10 | 0.27 | SH4-63-T10 | 0.27 | SSH4-63Y-T10 | 0.27 | 7/8-14 ORB | 2.12 | 0.87 | 1.19 | 1.37 |
| 3/4 | BH6-61 | 0.50 | H6-63 | 0.46 | SH6-63 | 0.45 | SSH6-63Y | 0.46 | 3/4-14 NPTF | 2.43 | 0.79 | 1.38 | 1.59 |
| 3/4 | - | 0.55 | H6-63-T12 | 0.46 | SH6-63-T12 | 0.50 | SSH6-63Y-T12 | 0.50 | 1-1/16 - 12 ORB | 2.54 | 0.90 | 1.34 | 1.59 |
| 1 | BH8-61 | 0.76 | H8-63 | 0.76 | SH8-63 | 0.76 | SSH8-63Y | 0.76 | 1 - 11 1/2 NPTF | 2.91 | 0.99 | 1.62 | 1.88 |
| 1 | - | 0.80 | H8-63-T16 | 0.80 | SH8-63-T16 | 0.80 | SSH8-63Y-T16 | 0.80 | 1-5/16 - 12 ORB | 2.91 | 0.99 | 1.62 | 1.88 |

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.



Couplers - Female Thread



| Body Size | Part No. Brass | Weight (lbs.) | Part No. Steel | Weight (lbs.) | Part No. Type 303 Stainless | Weight (lbs.) | Part Number Type 316 Stainless | Weight (lbs.) | Thread Size | Overall Length | Wrench Flats | Largest Diameter |
|-----------|----------------|---------------|----------------|---------------|-----------------------------|---------------|--------------------------------|---------------|---------------------|----------------|--------------|------------------|
| 1-1/2 | BH12-60L | 4.58 | H12-62L | 4.70 | SH12-62L | 4.68 | SSH12-62LY | 4.68 | 1-1/4 - 11 1/2 NPTF | 4.86 | 2.38* | 3.00 |
| 1-1/2 | BH12-60N | 4.58 | H12-62N | 4.70 | SH12-62N | 4.68 | SSH12-62NY | 4.68 | 1-1/2 - 11 1/2 NPTF | 4.86 | 2.38* | 3.00 |
| 1-1/2 | - | 4.61 | H12-62-T20 | 4.72 | SH12-62-T20 | 4.71 | SSH12-62Y-T20 | 4.71 | 1-5/8 - 12 ORB | 4.86 | 2.38* | 3.00 |
| 1-1/2 | - | 4.61 | H12-62-T24 | 4.72 | SH12-62-T24 | 4.71 | SSH12-62Y-T24 | 4.71 | 1-7/8 - 12 ORB | 4.86 | 2.38* | 3.00 |
| 2-1/2 | BH2016-60 | 11.06 | H2016-62 | 10.58 | SH2016-62 | - | SSH2016-62Y | - | 2 - 11 1/2 NPTF | 5.57 | 3.75 | 4.10 |
| 2-1/2 | BH2020-60 | 11.42 | H2020-62 | 10.91 | SH2020-62 | - | SSH2020-62Y | - | 2 1/2 - 8 NPTF | 6.04 | 3.75 | 4.10 |
| 2-1/2 | BH2024-60 | - | H2024-62 | - | SH2024-62 | - | SSH2024-62Y | - | 3 - 8 NPTF | 6.69 | 4.00 | 4.35 |

*Wrench Flat on 303 Stainless is 2.50 in.

Nipples - Female Thread



| Body Size | Part No. Brass | Weight (lbs.) | Part No. Steel | Weight (lbs.) | Part No. Type 303 Stainless | Weight (lbs.) | Part No. Type 316 Stainless | Weight (lbs.) | Thread Size | Overall Length | Exposed Length* | Wrench Flats | Largest Diameter |
|-----------|----------------|---------------|----------------|---------------|-----------------------------|---------------|-----------------------------|---------------|---------------------|----------------|-----------------|--------------|------------------|
| 1-1/2 | BH12-61L | 2.96 | H12-63L | 3.10 | SH12-63L | 3.06 | SSH12-63LY | - | 1-1/4 - 11 1/2 NPTF | 4.76 | 2.69 | 2.38‡ | 2.75† |
| 1-1/2 | BH12-61N | 2.96 | H12-63N | 3.10 | SH12-63N | 3.06 | SSH12-63NY | - | 1-1/2 - 11 1/2 NPTF | 4.76 | 2.69 | 2.38‡ | 2.75† |
| 1-1/2 | - | - | H12-63-T20 | 3.15 | SH12-63-T20 | 3.14 | SSH12-63Y-T20 | - | 1-5/8 - 12 ORB | 4.76 | 2.69 | 2.38‡ | 2.75† |
| 1-1/2 | - | - | H12-63-T24 | 3.15 | SH12-63-T24 | 3.14 | SSH12-63Y-T24 | - | 1-7/8 - 12 ORB | 4.76 | 2.69 | 2.38‡ | 2.75† |
| 2-1/2 | BH2016-61 | 7.78 | H2016-63 | 7.90 | SH2016-63 | 7.92 | SSH2016-63Y | - | 2 - 11 1/2 NPTF | 5.48 | 2.90 | 3.75 | 4.10 |
| 2-1/2 | BH2020-61 | 8.12 | H2020-63 | 8.16 | SH2020-63 | 8.16 | SSH2020-63Y | - | 2-1/2 - 8 NPTF | 5.95 | 3.37 | 3.75 | 4.10 |
| 2-1/2 | BH2024-61 | - | H2024-63 | - | SH2024-63 | - | SSH2024-63Y | - | 3 - 8 NPTF | 6.87 | 4.29 | 4.00 | 4.35 |

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.

† Largest diameter on Brass is 2.96" across Hex Corners

‡ Hex on 303 Stainless is 2.50 in.

Optional Materials and Features:

(add code to part number)

| Code | Description | Part Number Example |
|-------------------|--|---------------------|
| suffix -VA | Valve actuator (Nipples) | H3-63-VA |
| suffix -SL | Sleeve-Lok (Couplers) | H3-62-SL |
| prefix HD | Heavy duty (Steel Nipples) | HDH3-63 |
| suffix W | Ethylene Propylene seal material (EPR) | H3-63W |
| suffix Y | Fluorocarbon seal material | H3-62Y |
| suffix Z | Neoprene seal material | H3-63Z |

Contact QCD for availability and additional options.

To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



| Replacement Parts | | |
|--------------------|------------------------------|---------------|
| 60 Series Couplers | | |
| Body Size | O-Rings - Nitrile | Back-Up Rings |
| 1/8 | 50001-013-0010 | H67A-28 |
| 1/4 | 50001-015-0010 | H67C-28 |
| 3/8 | 50001-116-0010 | 4118007 |
| 1/2 | 50001-213-0010 | 4128002 |
| 3/4 | 50001-218-0010 | 4148001 |
| 1 | 50001-222-0010 | 4158001 |
| 1-1/2 | 50001-124-0010 (Valve) | |
| 1-1/2 | 50001-138-0260 (Fitting) | |
| 1-1/2 | 50001-224-0010 (Body 2 req.) | |
| 2-1/2 | 50001-133-0010 (Valve) | |
| 2-1/2 | 50001-234-0260 (Fitting) | |
| 2-1/2 | 50001-333-0010 (Body) | |

| Repair Kits | | | | |
|-------------|---------------------|-------------------|---------------------|-------------------|
| Couplers | | | Nipples | |
| Body Size | Repair Kit Part No. | Used for Part No. | Repair Kit Part No. | Used for Part No. |
| 3/8 | H67E-62K | H3-62 | H67E-63K | H3-63 |
| 3/8 | BH67E-60K | BH3-60 | BH67E-61K | BH3-61 |
| 3/8 | SH67E-62K | SH3-62 | SH67E-63K | SH3-63 |
| 3/8 | SSH67-62KY | SSH3-62Y | SSH67E-63KY | SSH3-63Y |
| 1/2 | H67F-62K | H4-62 | H67F-63K | H4-63 |
| 1/2 | BH67F-60K | BH4-60 | BH67F-61K | BH4-61 |
| 1/2 | SH67F-62K | SH4-62 | SH67F-63K | SH4-63 |
| 1/2 | SSH67F-62KY | SSH4-62Y | SSH67F-63KY | SSH4-63Y |
| 3/4 | H67G-62K | H6-62 | H67G-63K | H6-63 |
| 3/4 | BH67G-60K | BH6-60 | BH67G-61K | BH6-61 |
| 3/4 | SH67G-62K | SH6-62 | SH67G-63K | SH6-63 |
| 3/4 | SSH67G-62KY | SSH6-62Y | SSH67G-63KY | SSH6-63Y |
| 1 | H67J-62K | H8-62 | H67J-63K | H8-63 |
| 1 | BH67J-60K | BH8-60 | BH67J-61K | BH8-61 |
| 1 | SH67J-62K | SH8-62 | SH67J-63K | SH8-63 |
| 1 | SSH67J-62KY | SSH8-62Y | SSH67J-63KY | SSH8-63Y |

| 60 Series Dust Plugs and Caps | | | | |
|-------------------------------|----------------------------|--------------------------|--------------------------|------------------------|
| Body Size | Coupler Dust Plug Aluminum | Coupler Dust Plug Rubber | Nipple Dust Cap Aluminum | Nipple Dust Cap Rubber |
| 1/8 | H1-65 | H1-65M | H1-66 | H1-66M |
| 1/4 | H2-65 | H2-65M | H2-66 | H2-66M |
| 3/8 | H3-65 | H3-65M | H3-66 | H3-66M |
| 1/2 | H4-65 | H4-65M | H4-66 | H4-66M |
| 3/4 | H6-65 | H6-65M | H6-66 | H6-66M |
| 1 | H8-65 | H8-65M | H8-66 | H8-66M |
| 1-1/2 | H12-65 | - | H12-66 | - |
| 2-1/2 | H20P-65 | - | H20P-66 | - |





60 Series Steam couplings are brass with stainless steel locking balls and ethylene propylene seals to withstand temperatures up to 400 F. 1/4 to 1 inch body sizes. 3/8 inch size couplers have a grip-ring sleeve.

Features:

- Accepts ISO 7241-1, Series B compliant nipples
- Poppet valves along with a metal to metal valve stop maintains valve alignment and prevents flow checking
- Brass couplers have double O-rings and stainless steel locking balls
- Standard end configuration is female pipe thread

Applications:

- Steam systems
- Cleaning equipment

B Hydraulics

| Specifications | |
|------------------------|--------------------|
| Body Size | 1/4 to 1 |
| Standard Seal Material | Ethylene Propylene |
| Temperature Range | up to +400° |

| Repair Kits - Steam Coupling | | |
|------------------------------|---------------------|-------------------|
| Body Size | Repair Kit Part No. | Used for Part No. |
| 3/8 | H68E-67K | H3-68 |
| 3/8 | H69E-67K | H3-69 |

Couplers - Female Pipe Thread



H3-68 has grip-ring sleeve

| Body Size | Part No. Brass | Thread Size | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|----------------|---------------|--------|------------------|--------------|---------------|
| 1/4 | BH2-60-STM | 1/4-18 NPTF | 2.26 | 1.14 | 0.81 | 0.30 |
| 3/8* | H3-68 | 3/8-18 NPTF | 2.50 | 1.77 | 0.88 | 0.50 |
| 1/2 | BH4-60-STM | 1/2-14 NPTF | 2.87 | 1.77 | 1.12 | 0.75 |
| 3/4 | BH6-60-STM | 3/4-14 NPTF | 3.56 | 2.14 | 1.31 | 1.31 |
| 1 | BH8-60-STM | 1-11 1/2 NPTF | 4.18 | 2.52 | 1.62 | 1.95 |

* See Photo for 3/8 inch size coupler configuration.

Nipple - Female Pipe Thread



| Body Size | Part No. Brass | Thread Size | Overall Length | Exposed* Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|----------------|-----------------|----------------|-----------------|------------------|--------------|---------------|
| 1/4 | BH2-61-STM | 1/4 - 18 NPTF | 1.54 | 0.65 | 0.87 | 0.75 | 0.08 |
| 3/8 | H3-69 | 3/8 - 18 NPTF | 1.68 | 0.52 | 1.01 | 0.88 | 0.13 |
| 1/2 | BH4-61-STM | 1/2 - 14 NPTF | 1.94 | 0.69 | 1.30 | 1.12 | 0.24 |
| 3/4 | BH6-61-STM | 3/4 - 14 NPTF | 2.43 | 0.79 | 1.59 | 1.38 | 0.46 |
| 1 | BH8-61-STM | 1 - 11 1/2 NPTF | 2.91 | 0.99 | 1.88 | 1.62 | 0.76 |

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.



The 6600 Series are versatile for use in a wide range of hydraulic applications where fluid lines require connection and disconnection for equipment operation or maintenance

Features:

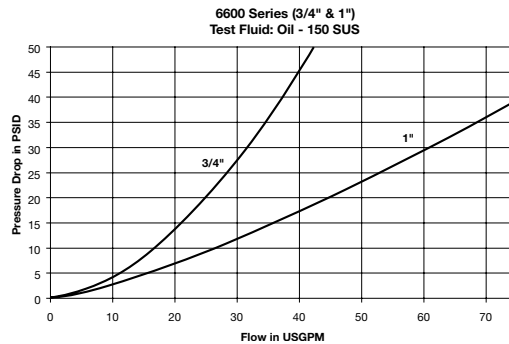
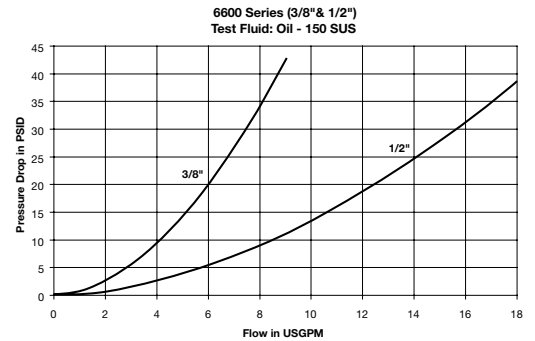
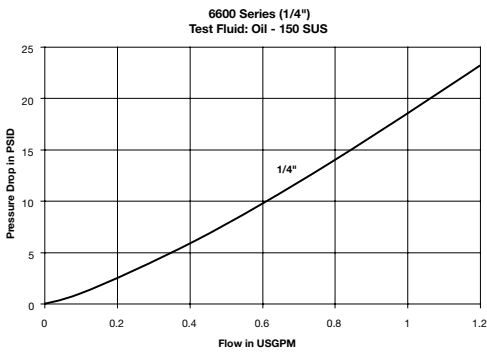
- Accepts ISO 7241-1, Series A compliant nipples
- Poppet valves and a metal perch to maintain valve alignment and prevent flow checking
- Coupler sleeve and nipple body are hardened to be damage resistant
- Standard end configurations include female pipe and straight thread ORB
- Protective zinc plating with clear trivalent chromate finish

Applications include:

- Snow plows
- Truck trailer connections
- Mobile applications
- Attachments

| 6600 Series Specifications: | | | | | | |
|-----------------------------|------------------|----------------------|-------------------|---------------|----------------|---------------|
| Body Size | Rated Flow (gpm) | Rated Pressure (psi) | Temperature | Body Material | Sleeve Type | Seal Material |
| 1/4 | 3 | 5000 | -40° F to +250° F | Steel | Manual Connect | Nitrile |
| 3/8 | 6 | 4000 | | | | |
| 1/2 | 12 | 4000 | | | | |
| 3/4 | 28 | 4000 | | | | |
| 1 | 50 | 4000 | | | | |

Performance:





6600 Series Couplers



| Body Size | Coupler Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|---------------|------------|--------|------------------|--------------|---------------|
| 1/4 | 6601-2-4 | 1/8-27 NPTF | Poppet | 1.85 | 1.08 | 0.88 | 0.27 |
| 1/4 | 6601-4-4 | 1/4-18 NPTF | Poppet | 1.85 | 1.08 | 0.88 | 0.26 |
| 3/8 | 6601-6-6 | 3/8-18 NPTF | Poppet | 2.18 | 1.27 | 1.06 | 0.39 |
| 3/8 | 6608-6-6 | 9/16-18 ORB | Poppet | 2.18 | 1.27 | 1.06 | 0.38 |
| 1/2 | 6601-8-10 | 1/2-14 NPTF | Poppet | 2.75 | 1.52 | 1.25 | 0.67 |
| 1/2 | 6601-12-10 | 3/4-14 NPTF | Poppet | 2.88 | 1.52 | 1.38 | 0.71 |
| 1/2 | 6608-8-10 | 3/4-16 ORB | Poppet | 2.74 | 1.52 | 1.25 | 0.67 |
| 1/2 | 6608-10-10 | 7/8-14 ORB | Poppet | 2.79 | 1.52 | 1.25 | 0.64 |
| 1/2 | 6608-12-10 | 1 1/16-12 ORB | Poppet | 3.01 | 1.52 | 1.38 | 0.77 |
| 3/4 | 6601-12-12 | 3/4-14 NPTF | Poppet | 3.36 | 1.90 | 1.62 | 1.31 |
| 3/4 | 6608-12-12 | 1 1/16-12 ORB | Poppet | 3.35 | 1.90 | 1.62 | 1.31 |
| 1 | 6601-16-16 | 1-11 1/2 NPTF | Poppet | 4.11 | 2.14 | 1.88 | 1.93 |
| 1 | 6608-16-16 | 1 5/16-12 ORB | Poppet | 4.11 | 2.14 | 1.88 | 1.75 |

6600 Series Nipples



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Exposed Length* | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|---------------|------------|--------|-----------------|------------------|--------------|---------------|
| 1/4 | 6602-2-4 | 1/8-27 NPTF | Poppet | 1.41 | 0.50 | 0.65 | 0.56 | 0.05 |
| 1/4 | 6602-4-4 | 1/4-18 NPTF | Poppet | 1.41 | 0.58 | 0.87 | 0.75 | 0.07 |
| 3/8 | 6602-6-6 | 3/8-18 NPTF | Poppet | 1.63 | 0.72 | 1.01 | 0.88 | 0.11 |
| 3/8 | 6610-6-6 | 9/16-18 ORB | Poppet | 1.63 | 0.72 | 1.01 | 0.88 | 0.13 |
| 1/2 | 6602-8-10 | 1/2-14 NPTF | Poppet | 2.08 | 0.78 | 1.23 | 1.06 | 0.21 |
| 1/2 | 6602-12-10 | 3/4-14 NPTF | Poppet | 2.30 | 0.78 | 1.59 | 1.38 | 0.33 |
| 1/2 | 6610-8-10 | 3/4-16 ORB | Poppet | 2.08 | 0.76 | 1.23 | 1.06 | 0.22 |
| 1/2 | 6610-10-10 | 7/8-14 ORB | Poppet | 2.08 | 0.82 | 1.30 | 1.12 | 0.21 |
| 1/2 | 6610-12-10 | 1 1/16-12 ORB | Poppet | 2.30 | 1.04 | 1.59 | 1.38 | 0.33 |
| 3/4 | 6602-12-12 | 3/4-14 NPTF | Poppet | 2.55 | 1.18 | 1.59 | 1.38 | 0.49 |
| 3/4 | 6610-12-12 | 1 1/16-12 ORB | Poppet | 2.55 | 1.18 | 1.59 | 1.38 | 0.47 |
| 1 | 6602-16-16 | 1-11 1/2 NPTF | Poppet | 3.10 | 1.34 | 1.88 | 1.62 | 0.75 |
| 1 | 6610-16-16 | 1-5/16-12 ORB | Poppet | 3.10 | 1.34 | 2.17 | 1.62 | 0.72 |

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.

| 6600 Series Replacement Parts | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|
| O-Rings - Nitrile | 50001-112-0010 | 50001-115-0010 | 50001-211-0010 | 50001-123-0010 | 50001-126-0010 |
| Back-up Rings | 4118006 | 4118005 | 50-140-4 | 4138001 | 4148002 |



6600 Series Dust Caps and Plugs



| Body Size | Dust Plug (Coupler) | Color/Material | Dust Cap (Nipple) | Weight (lbs.) |
|-----------|---------------------|----------------|-------------------|---------------|
| 1/4 | H1-65M | Black Rubber | H1-66M | .02 |
| 3/8 | TR-37 | Black Rubber | TR-37 | .04 |
| 1/2 | 5205-4M | Black Rubber | 5209-4M | .04 |
| 3/4 | 6659-12M | Black Rubber | 6657-12M | .06 |
| 1 | 6659-16M | Black Rubber | 6657-16M | .08 |

Optional Materials and Features:
 (add code to part number)

| Code | Description | Part Number Example |
|-------------------|--|---------------------|
| suffix -SL | Sleeve-Lok (Couplers) | 6601-6-6-SL |
| suffix W | Ethylene Propylene seal material (EPR) | 6601-6-6W |
| suffix Y | Fluorocarbon seal material | 6601-6-6Y |
| suffix Z | Neoprene seal material | 6601-6-6Z |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



Snap-tite H Series couplings have been proven by years of use on hydraulic applications.

H Series is best suited for general purpose fluid applications where either single or double shut-off valving is desired. A wide range of sizes, materials and end configurations are available.

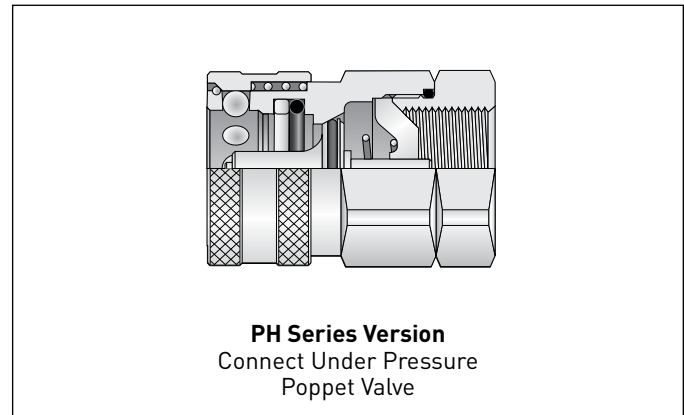
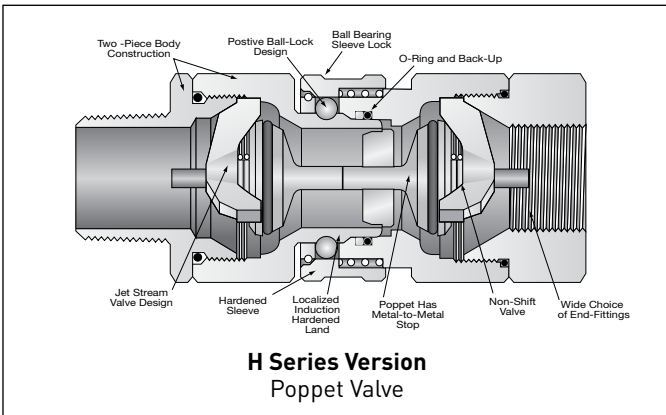
PH version couplers and nipples are valved with a connect-under-pressure feature. These steel couplers and nipples allow connection with H Series valved couplers and nipples when there is a residual pressure on the PH coupler/nipple side. It is recommended that only one half of the connection (coupler or nipple) be PH version, not both.

Features:

- Sizes 1/4" - 4"
- Available in steel, brass, aluminum and 316 stainless steel
- Standard seal material is nitrile with other options available
- Optional sleeve lock helps to prevent accidental disconnection
- Double-shut-off version has low pressure drop
- Manually operated sleeve provides secure connection

Applications include:

- Industrial hydraulic lines
- Water and coolant lines
- Mobile equipment



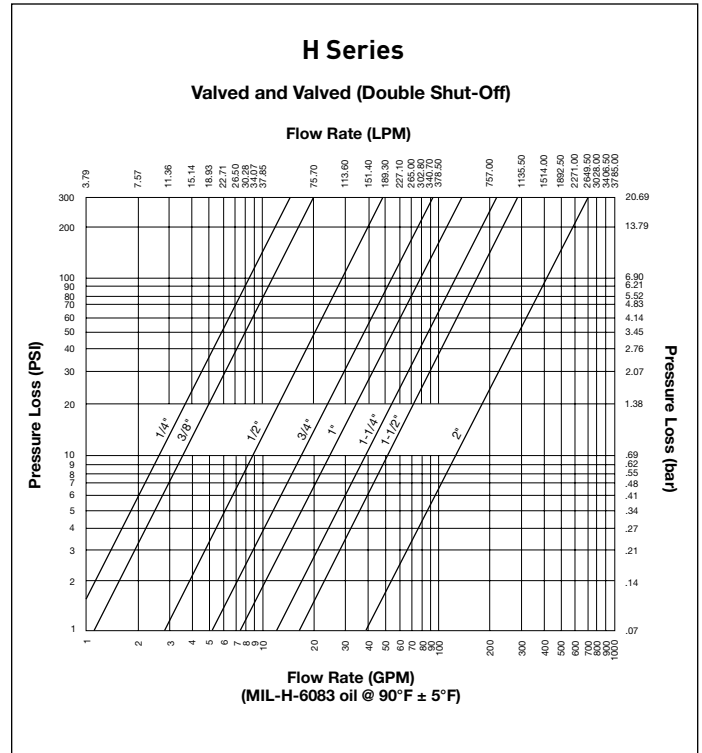
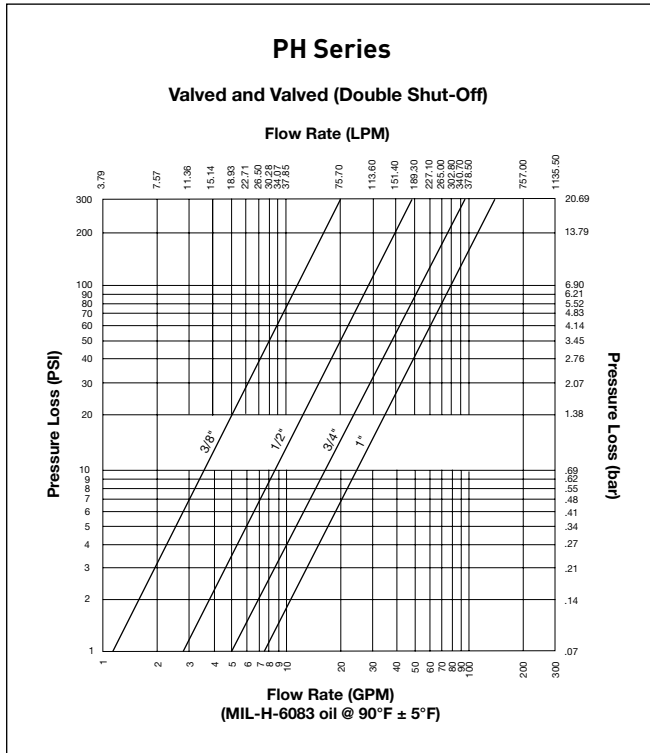
H & PH Series Working Pressures (psi)

| Valved on both coupler and nipple (Double Shut-off) | | | | | | | | | | | |
|---|-------|-------|-------|------|------|-------|-------|------|-------|-----|-----|
| Valved on one half and Unvalved/Plain on other half (Single Shut-off) | | | | | | | | | | | |
| Body Size | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 4 |
| Steel | 6500 | 4500 | 4000 | 3500 | 2000 | 1750 | 1500 | 1500 | 1000 | 750 | 500 |
| Aluminum | 2250 | 2250 | 1750 | 1750 | 1500 | 375 | 375 | 300 | 300 | 200 | 150 |
| Brass | 2250 | 2250 | 2000 | 2000 | 1750 | 350 | 350 | 400 | 400 | 200 | 150 |
| Stainless Steel | 5000 | 4000 | 3750 | 2000 | 2000 | 1500 | 1500 | 500 | 400 | 400 | 300 |
| Unvalved/Plain on both coupler and nipple (Straight Through) | | | | | | | | | | | |
| Steel | 11000 | 11000 | 11000 | 9000 | 6000 | 5000 | 5000 | 4000 | 1000 | 750 | 500 |
| Aluminum | 4000 | 4000 | 4000 | 3500 | 3000 | 1000 | 1000 | 750 | 300 | 200 | 150 |
| Brass | 4000 | 4000 | 4000 | 3500 | 3000 | 1000 | 1000 | 750 | 300 | 200 | 150 |
| Stainless Steel | 10000 | 8000 | 8000 | 7000 | 4000 | 3000 | 3000 | 1000 | 400 | 400 | 300 |

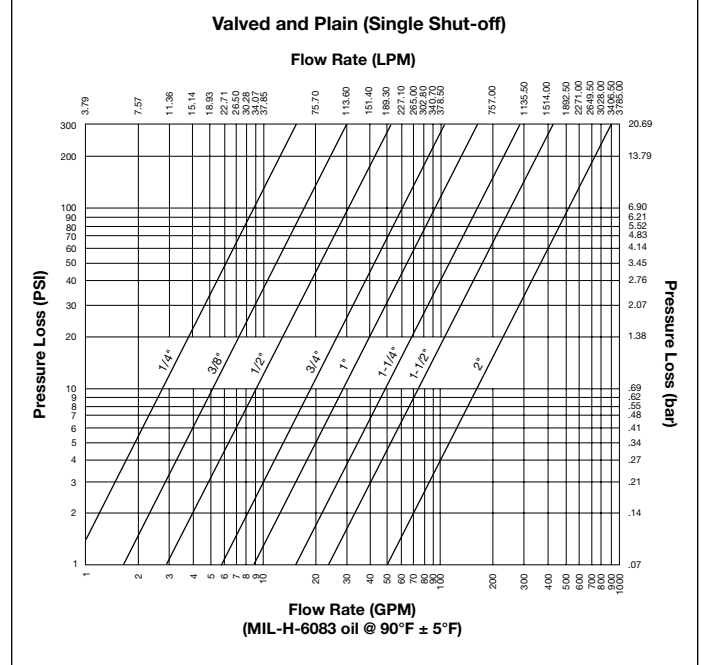
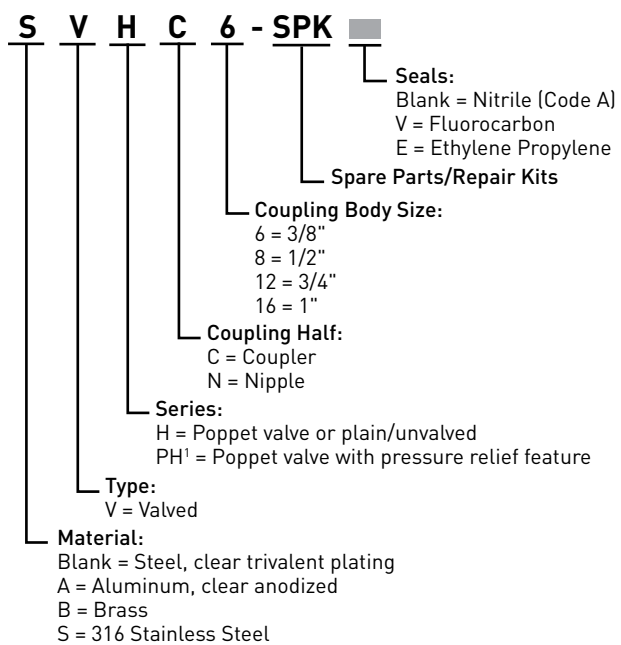
NOTE: Pressure ratings were established under static pressure conditions. Therefore, pressure ratings for any given flow, pressure surge and/or vibration may vary from these ratings. Burst pressures listed were taken at the point at which failure rendered the quick disconnect inoperative. (Proof pressure equals 1-1/2 times the working pressure; burst pressure equals 2 times working pressure.)



Performance



Repair Kits



Repair kits include valve spring, valve stop and valve.
 O-ring installed on 3/8" to 1". 1/4" unit is non-field repairable.

Note: Not all configurations are standard product offering. Contact QCD for price and delivery.





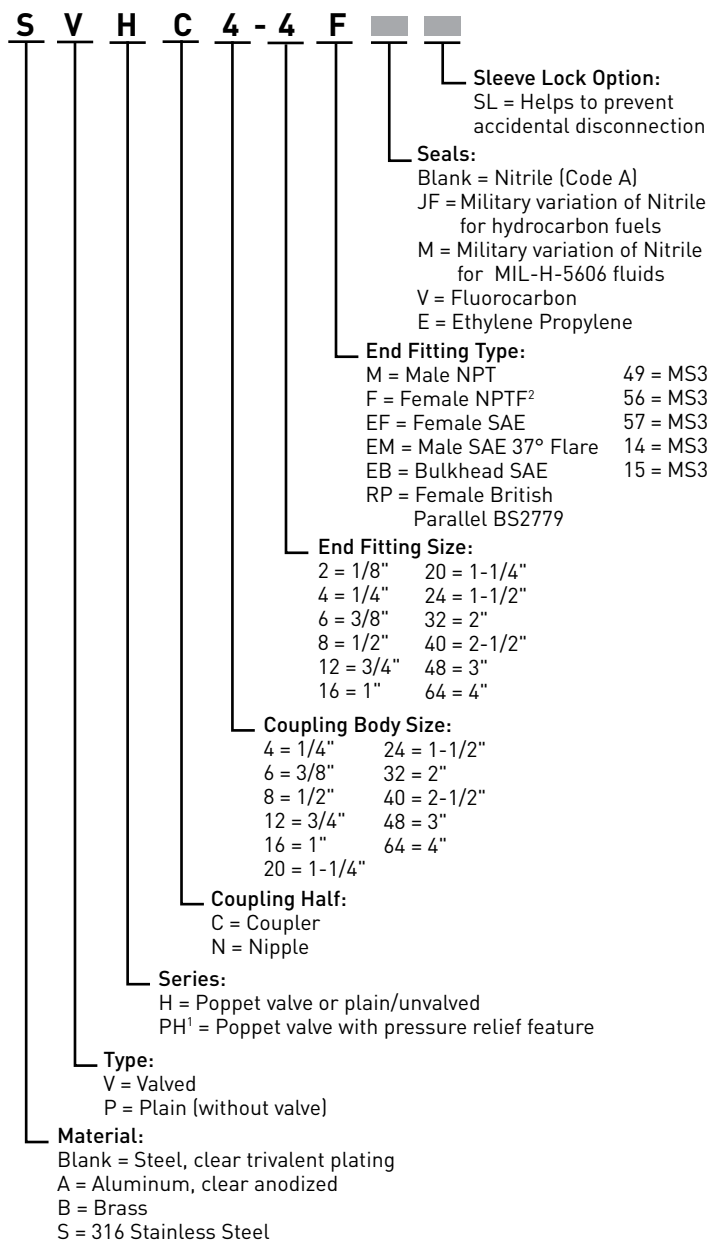
B Hydraulics

| Valve Options | | |
|--------------------------|---|---|
| | H Series Hydraulic Coupler/Nipple | PH Series Hydraulic Coupler/Nipple |
| Valve Styles: | <ul style="list-style-type: none"> • Poppet Valve • Unvalved/Plain | <ul style="list-style-type: none"> • Connect-Under-Pressure Poppet Valve |
| Connection Types: | <ul style="list-style-type: none"> • Double Shut-off • Single Shut-off • Straight Through/Unvalved | <ul style="list-style-type: none"> • Double Shut-off (connects with valved H Series Coupler or Nipple) |
| Body Sizes: | 1/8" - 4" | 3/8" - 1" |
| Materials: | <ul style="list-style-type: none"> • Steel • 316 Stainless Steel • Aluminum • Brass | <ul style="list-style-type: none"> • Steel |

| Replacement Coupler Interface Seals | | |
|-------------------------------------|----------|--------------|
| Body Size | Nitrile | Fluorocarbon |
| 1/4 | H4-56-9 | H4-56-9V |
| 3/8 | H6-56-9 | H6-56-9V |
| 1/2 | H8-56-9 | H8-56-9V |
| 3/4 | H12-56-9 | H12-56-9V |
| 1 | H16-56-9 | H16-56-9V |
| 1-1/4 | H20-56-9 | H20-56-9V |

| Replacement Valve Seals | | | |
|-------------------------|---------|--------------|--------------------|
| Body Size | Nitrile | Fluorocarbon | Ethylene Propylene |
| 1-1/4 | H20-55A | H20-55V | H20-55E |
| 1-1/2 | H24-55A | H24-55V | H24-55E |
| 2 | H32-55A | H32-55V | H32-55E |

Ordering Guide



¹PH Valve option recommended on one side, not both. Available in steel only.
²For sizes up to 1" NPTF threads in steel. For sizes up to 1" NPSF threads in stainless steel. For sizes over 1" NPT threads.

Note: Not all configurations are standard product offering. Contact QCD for price and delivery.



H Series Couplers (Aluminum, Brass, Steel) - Female Thread



| Body Size | Part Number Aluminum | Part Number Brass | Part Number Steel | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|----------------------|-------------------|-------------------|------------------------------|--------------------|-------------|------------------|--------------|
| 1/4 | - | - | VHC4-2F | Valved | 1/8-27 NPTF | 1.65 | 1.00 | 0.88 |
| 1/4 | APHC4-4F | BPHC4-4F | PHC4-4F | Non-Valved | 1/4-18 NPTF | 1.34 | 1.02 | 0.88 |
| 1/4 | AVHC4-4F | BVHC4-4F | VHC4-4F | Valved | 1/4-18 NPTF | 1.65 | 1.19 | 1.00 |
| 1/4 | - | - | VHC4-4EF | Valved | 7/16-20 UNF | 1.80 | 1.02 | 0.88 |
| 3/8 | APHC6-6F | BPHC6-6F | PHC6-6F | Non-Valved | 3/8-18 NPTF | 1.50 | 1.19 | 1.00 |
| 3/8 | AVHC6-6F | BVHC6-6F | VHC6-6F | Valved | 3/8-18 NPTF | 1.90 | 1.19 | 1.00 |
| 3/8 | - | - | VHC6-6EF | Valved | 9/16-18 UNF | 2.20 | 1.19 | 1.00 |
| 1/2 | - | BPHC8-8F | PHC8-8F | Non-Valved | 1/2-18 NPTF | 1.62 | 1.39 | 1.19 |
| 1/2 | AVHC8-8F | BVHC8-8F | VHC8-8F | Valved | 1/2-18 NPTF | 2.09 | 1.39 | 1.19 |
| 1/2 | - | - | VHC8-8EF | Valved | 3/4-16 UNF | 2.19 | 1.39 | 1.19 |
| 3/4 | - | BPHC12-12F | PHC12-12F | Non-Valved | 3/4-18 NPTF | 1.91 | 1.73 | 1.50 |
| 3/4 | - | BVHC12-12F | VHC12-12F | Valved | 3/4-18 NPTF | 2.42 | 1.73 | 1.50 |
| 3/4 | - | - | VHC12-12EFV | Valved | 1-1/16 - 12 UNF | 2.92 | 1.73 | 1.50 |
| 1 | - | BPHC16-16F | PHC16-16F | Non-Valved | 1 - 11-1/2 NPTF | 2.07 | 2.17 | 1.88 |
| 1 | - | BVHC16-16F | VHC16-16F | Valved | 1 - 11-1/2 NPTF | 2.67 | 2.17 | 1.88 |
| 1 | - | - | VHC16-16EF | Valved | 1-5/16 - 12 UNF | 2.94 | 2.17 | 1.88 |
| 1-1/4 | - | BPHC20-20F | PHC20-20F | Non-Valved | 1-1/4 - 11-1/2 NPT | 2.28 | 2.31 | 2.00 |
| 1-1/4 | - | BVHC20-20F | VHC20-20F | Valved | 1-1/4 - 11-1/2 NPT | 3.54 | 2.31 | 2.00 |
| 1-1/2 | - | BPHC24-24F | PHC24-24F | Non-Valved | 1-1/2 - 11-1/2 NPT | 2.57 | 2.89 | 2.50 |
| 1-1/2 | - | BVHC24-24F | VHC24-24F | Valved | 1-1/2 - 11-1/2 NPT | 3.27 | 3.18 | 2.75 |
| 2 | - | BPHC32-32F | PHC32-32F | Non-Valved | 2 - 11-1/2 NPT | 2.48 | 3.75 | 3.25 |
| 2 | - | BVHC32-32F | VHC32-32F | Valved | 2 - 11-1/2 NPT | 3.92 | 4.33 | 3.75 |

B Hydraulics



H Series Couplers (316 Stainless Steel) - Female Thread



| Body Size | Part Number Stainless Steel | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-----------------------------|------------------------------|--------------------|-------------|------------------|--------------|
| 1/4 | SVHC4-2F | Valved | 1/8-27 NPSF* | 1.65 | 1.00 | 0.88 |
| 1/4 | SPHC4-4F | Non-Valved | 1/4-18 NPSF* | 1.34 | 1.02 | 0.88 |
| 1/4 | SVHC4-4F | Valved | 1/4-18 NPSF* | 1.65 | 1.19 | 1.00 |
| 3/8 | SPHC6-6F | Non-Valved | 3/8-18 NPSF* | 1.50 | 1.19 | 1.00 |
| 3/8 | SVHC6-6F | Valved | 3/8-18 NPSF* | 1.90 | 1.19 | 1.00 |
| 1/2 | SPHC8-8F | Non-Valved | 1/2-18 NPSF* | 1.62 | 1.39 | 1.19 |
| 1/2 | SVHC8-8F | Valved | 1/2-18 NPSF* | 2.09 | 1.39 | 2.09 |
| 3/4 | SPHC12-12F | Non-Valved | 3/4-18 NPSF* | 1.91 | 1.73 | 1.50 |
| 3/4 | SVHC12-12F | Valved | 3/4-18 NPSF* | 2.42 | 1.73 | 1.50 |
| 1 | SPHC16-16F | Non-Valved | 1 - 11-1/2 NPSF* | 2.07 | 2.17 | 1.88 |
| 1 | SVHC16-16F | Valved | 1 - 11-1/2 NPSF* | 2.67 | 2.17 | 1.88 |
| 1-1/4 | SPHC20-20F | Non-Valved | 1-1/4 - 11-1/2 NPT | 2.28 | 2.31 | 2.00 |
| 1-1/4 | SVHC20-20F | Valved | 1-1/4 - 11-1/2 NPT | 3.54 | 2.31 | 2.00 |
| 1-1/2 | SPHC24-24F | Non-Valved | 1-1/4 - 11-1/2 NPT | 2.57 | 2.89 | 2.50 |
| 1-1/2 | SVHC24-24F | Valved | 1-1/2 - 11-1/2 NPT | 3.27 | 3.18 | 2.75 |
| 2 | SPHC32-32F | Non-Valved | 2 - 11-1/2 NPT | 2.48 | 3.75 | 3.25 |
| 2 | SVHC32-32F | Valved | 2 - 11-1/2 NPT | 3.92 | 4.33 | 3.75 |

*NPSF thread may be substituted with equivalent NPT thread

H Series Couplers (Aluminum, Brass, Steel) - Male Thread



| Body Size | Part Number Aluminum | Part Number Brass | Part Number Steel | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|----------------------|-------------------|-------------------|------------------------------|--------------|-------------|------------------|--------------|
| 1/4 | - | - | VHC4-2M | Valved | 1/8-27 NPT | 1.90 | 1.00 | 0.88 |
| 1/4 | AVHC4-4M | BVHC4-4M | VHC4-4M | Valved | 1/4-18 NPT | 2.09 | 1.02 | 0.88 |
| 3/8 | AVHC6-6M | - | VHC6-6M | Valved | 3/8-18 NPT | 2.19 | 1.19 | 1.00 |
| 3/8 | - | BVHC6-6M | - | Valved | 3/8-18 NPT | 1.90 | 1.19 | 1.00 |
| 1/2 | - | BVHC8-8M | - | Valved | 1/2-18 NPT | 2.57 | 1.39 | 1.19 |
| 1/2 | - | - | VHC8-8M | Valved | 1/2-18 NPT | 2.46 | 1.39 | 1.19 |
| 3/4 | - | BVHC12-12M | VHC12-12M | Valved | 3/4-18 NPT | 2.88 | 1.73 | 1.50 |
| 1 | - | BVHC16-16M | VHC16-16M | Valved | 1-11-1/2 NPT | 3.21 | 2.17 | 1.88 |
| 2 | - | - | VHC32-32M | Valved | 2-11-1/2 NPT | 4.54 | 4.33 | 3.75 |



H Series Couplers (316 Stainless Steel) - Male Thread



| Body Size | Part Number | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------|------------------------------|----------------|-------------|------------------|--------------|
| 1/4 | SVHC4-4M | Valved | 1/4-18 NPT | 2.09 | 1.02 | 0.88 |
| 3/8 | SVHC6-6M | Valved | 3/8-18 NPT | 2.19 | 1.19 | 1.00 |
| 1/2 | SVHC8-8M | Valved | 1/2-18 NPT | 2.57 | 1.39 | 1.19 |
| 3/4 | SVHC12-12M | Valved | 3/4-18 NPT | 2.88 | 1.73 | 1.50 |
| 1 | SVHC16-16M | Valved | 1 - 11-1/2 NPT | 3.21 | 2.17 | 1.88 |

H Series Couplers (Steel) - Male SAE 37 Degree Flare



| Body Size | Part Number | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------|------------------------------|----------------|-------------|------------------|--------------|
| 1/4 | VHC4-4EM | Valved | 7/16-20 UNF | 2.80 | 1.02 | 0.88 |
| 3/8 | VHC6-6EM | Valved | 9/16-18 UNF | 2.24 | 1.19 | 1.00 |
| 1/2 | VHC8-8EM | Valved | 3/4-16 UNF | 2.46 | 1.39 | 1.19 |
| 3/4 | VHC12-12EM | Valved | 1-1/6 - 12 UNF | 3.05 | 1.73 | 1.50 |

PH Series Connect-Under-Pressure Couplers (Steel) - Female Thread



| Body Size | Part Number | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------|------------------------------|-----------------|-------------|------------------|--------------|
| 3/8 | VPHC6-6F | Valved | 3/8-18 NPTF | 1.90 | 1.19 | 1.00 |
| 1/2 | VPHC8-8F | Valved | 1/2-14 NPTF | 2.09 | 1.39 | 1.19 |
| 3/4 | VPHC12-12EF | Valved | 1-1/16 - 12 UNF | 2.92 | 1.73 | 1.50 |
| 3/4 | VPHC12-12F | Valved | 3/4-14 NPTF | 2.42 | 1.73 | 1.50 |



B Hydraulics

H Series Nipples (Aluminum, Brass, Steel) - Female Thread



| Body Size | Part Number Aluminum | Part Number Brass | Part Number Steel | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|----------------------|-------------------|-------------------|------------------------------|---------------------|-------------|------------------|--------------|
| 1/4 | - | BPHN4-2F | PHN4-2F | Non-Valved | 1/8-27 NPTF | 1.11 | 0.62 | 0.56 |
| 1/4 | - | - | VHN4-2F | Valved | 1/8-27 NPTF | 1.59 | 1.00 | 0.88 |
| 1/4 | APHN4-4F | BPHN4-4F | - | Non-Valved | 1/4-18 NPTF | 1.32 | 0.73 | 0.88 |
| 1/4 | AVHN4-4F | BVHN4-4F | - | Valved | 1/4-18 NPTF | 1.59 | 1.02 | 0.88 |
| 1/4 | - | - | PHN4-4F | Valved | 1/4-18 NPTF | 1.32 | 0.73 | 0.63 |
| 1/4 | - | - | VHN4-4F | Valved | 1/4-18 NPTF | 1.65 | 1.19 | 1.00 |
| 3/8 | APHN6-6F | BPHN6-6 | - | Non-Valved | 3/8-18 NPTF | 1.52 | 0.94 | 1.00 |
| 3/8 | - | - | PHN6-6F | Non-Valved | 3/8-18 NPTF | 1.52 | 0.94 | 0.81 |
| 3/8 | AVHN6-6F | BVHN6-6F | VHN6-6F | Valved | 3/8-18 NPTF | 1.84 | 1.19 | 1.00 |
| 1/2 | AVHN8-8F | - | - | Valved | 1/2-18 NPTF | 1.98 | 1.19 | 1.00 |
| 1/2 | - | BPHN8-8F | PHN8-8F | Non-Valved | 1/2-18 NPTF | 1.72 | 1.15 | 1.00 |
| 1/2 | - | BVHN8-8F | VHN8-8F | Valved | 1/2-18 NPTF | 1.98 | 1.39 | 1.19 |
| 1/2 | - | - | VHN8-8EF | Valved | 3/4-16 UNF | 2.08 | 1.39 | 1.19 |
| 3/4 | - | BPHN12-12F | PHN12-12F | Non-Valved | 3/4-18 NPTF | 1.92 | 1.37 | 1.19 |
| 3/4 | - | BVHN12-12F | VHN12-12F | Valved | 3/4-18 NPTF | 2.29 | 1.73 | 1.50 |
| 3/4 | - | - | VHN12-12EF | Valved | 1-1/16 - 12 UNF | 2.79 | 1.73 | 1.50 |
| 1 | - | BPHN16-16F | PHN16-16F | Non-Valved | 1 - 11-1/2 NPTF | 2.10 | 1.73 | 1.50 |
| 1 | - | BVHN16-16F | VHN16-16F | Valved | 1 - 11-1/2 NPTF | 2.55 | 2.17 | 1.88 |
| 1 | - | - | VHN16-16EF | Valved | 1-5/16 - 12 UNF | 2.82 | 2.17 | 1.88 |
| 1-1/4 | - | BPHN20-20F | PHN20-20F | Non-Valved | 1-1/4 - 11-1/2 NPTF | 2.22 | 2.17 | 1.88 |
| 1-1/4 | - | BVHN20-20F | VHN20-20F | Valved | 1-1/4 - 11-1/2 NPTF | 3.41 | 2.31 | 2.00 |
| 1-1/2 | - | BPHN24-24F | PHN24-24F | Non-Valved | 1-1/2 - 11-1/2 NPTF | 2.44 | 2.46 | 2.13 |
| 1-1/2 | - | BVHN24-24F | VHN24-24F | Valved | 1-1/2 - 11-1/2 NPTF | 3.11 | 3.18 | 2.75 |
| 2 | - | BPHN32-32F | PHN32-32F | Non-Valved | 2 - 11-1/2 NPTF | 2.60 | 3.18 | 2.75 |
| 2 | - | BVHN32-32F | VHN32-32F | Valved | 2 - 11-1/2 NPTF | 3.72 | 4.33 | 3.75 |



H Series Nipples (316 Stainless Steel) - Female Thread



| Body Size | Part Number | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------|------------------------------|---------------------|-------------|------------------|--------------|
| 1/4 | SPHN4-2F | Non-Valved | 1/8-27 NPSF* | 1.11 | 0.62 | 0.56 |
| 1/4 | SVHN4-2F | Valved | 1/8-27 NPSF* | 1.59 | 1.00 | 0.56 |
| 1/4 | SPHN4-4F | Non-Valved | 1/4-18 NPSF* | 1.32 | 0.73 | 0.63 |
| 1/4 | SVHN4-4F | Valved | 1/4-18 NPSF* | 1.59 | 1.02 | 0.88 |
| 3/8 | SPHN6-6F | Non-Valved | 3/8-18 NPSF* | 1.52 | 0.94 | 0.81 |
| 3/8 | SVHN6-6F | Valved | 3/8-18 NPSF* | 1.84 | 1.19 | 1.00 |
| 1/2 | SPHN8-8F | Non-Valved | 1/2-18 NPSF* | 1.72 | 1.15 | 2.00 |
| 1/2 | SVHN8-8F | Valved | 1/2-18 NPSF* | 1.98 | 1.39 | 1.19 |
| 3/4 | SPHN12-12F | Non-Valved | 3/4-18 NPSF* | 1.92 | 1.37 | 1.19 |
| 3/4 | SVHN12-12F | Valved | 3/4-18 NPSF* | 2.29 | 1.73 | 1.50 |
| 1 | SPHN16-16F | Non-Valved | 1 - 11-1/2 NPSF* | 2.10 | 1.73 | 1.50 |
| 1 | SVHN16-16F | Valved | 1 - 11-1/2 NPSF* | 2.55 | 2.17 | 1.88 |
| 1-1/4 | SPHN20-20F | Non-Valved | 1-1/4 - 11-1/2 NPTF | 2.22 | 2.17 | 1.88 |
| 1-1/4 | SVHN20-20F | Valved | 1-1/4 - 11-1/2 NPTF | 3.41 | 2.31 | 1.88 |
| 1-1/2 | SPHN24-24F | Non-Valved | 1-1/2 - 11-1/2 NPTF | 2.44 | 2.46 | 2.13 |
| 1-1/2 | SVHN24-24F | Valved | 1-1/2 - 11-1/2 NPTF | 3.11 | 3.18 | 3.75 |
| 2 | SPHN32-32F | Non-Valved | 2 - 11-1/2 NPTF | 2.60 | 3.18 | 2.75 |
| 2 | SVHN32-32F | Valved | 2 - 11-1/2 NPTF | 3.72 | 4.33 | 3.75 |

*NPSF thread may be substituted with equivalent NPT thread



H Series Nipples (Aluminum, Brass, Steel) - Male Thread



| Body Size | Part Number Aluminum | Part Number Brass | Part Number Steel | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|----------------------|-------------------|-------------------|------------------------------|--------------------|-------------|------------------|--------------|
| 1/4 | - | BPHN4-2M | - | Non-Valved | 1/8-27 NPT | 1.22 | 0.64 | 0.56 |
| 1/4 | - | - | PHN4-2M | Non-Valved | 1/8-27 NPT | 1.11 | 0.62 | 0.56 |
| 1/4 | - | - | VHN4-2M | Valved | 1/8-27 NPT | 1.85 | 1.00 | 0.88 |
| 1/4 | APHN4-4M | BPHN4-4M | PHN4-4M | Non-Valved | 1/4-18 NPT | 0.78 | 0.65 | 0.56 |
| 1/4 | AVHN4-4M | BVHN4-4M | VHN4-4M | Valved | 1/4-18 NPT | 2.03 | 1.02 | 0.88 |
| 3/8 | - | BPHN6-6M | PHN6-6M | Non-Valved | 3/8-18 NPT | 0.98 | 0.80 | 0.69 |
| 3/8 | AVHN6-6M | BVHN6-6M | VHN6-6M | Valved | 3/8-18 NPT | 2.13 | 1.19 | 1.00 |
| 1/2 | - | BPHN8-8M | PHN8-8M | Non-Valved | 1/2-18 NPT | 1.01 | 1.02 | 0.88 |
| 1/2 | - | BVHN8-8M | VHN8-8M | Valved | 1/2-18 NPT | 2.46 | 1.39 | 1.19 |
| 3/4 | - | BPHN12-12M | PHN12-12M | Non-Valved | 3/4-18 NPT | 1.14 | 1.22 | 1.06 |
| 3/4 | - | BVHN12-12M | VHN12-12M | Valved | 3/4-18 NPT | 2.75 | 1.73 | 1.50 |
| 1 | - | BPHN16-16M | - | Non-Valved | 1 - 11-1/2 NPT | 1.16 | 1.59 | 1.38 |
| 1 | - | - | PHN16-16M | Non-Valved | 1-11-1/2 NPT | 1.16 | 1.73 | 1.88 |
| 1 | - | BVHN16-16M | VHN16-16M | Valved | 1 - 11-1/2 NPT | 3.09 | 2.17 | 1.88 |
| 1-1/4 | - | - | VHN20-20M | Valved | 1-1/4 - 11-1/2 NPT | 3.46 | 2.31 | 2.00 |
| 2 | - | - | PHN32-32M | Non-Valved | 2 - 11-1/2 NPT | 2.03 | 2.89 | 2.50 |

H Series Nipples (316 Stainless Steel) - Male Thread



| Body Size | Part Number | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------|------------------------------|--------------------|-------------|------------------|--------------|
| 1/4 | SPHN4-2M | Non-Valved | 1/8-27 NPT | 1.22 | 0.64 | 0.56 |
| 1/4 | SPHN4-4M | Non-Valved | 1/4-18 NPT | 0.78 | 0.65 | 0.56 |
| 1/4 | SVHN4-4M | Valved | 1/4-18 NPT | 2.03 | 1.02 | 0.88 |
| 3/8 | SPHN6-6M | Non-Valved | 3/8-18 NPT | 0.98 | 0.80 | 0.69 |
| 3/8 | SVHN6-6M | Valved | 3/8-18 NPT | 2.13 | 1.19 | 1.00 |
| 1/2 | SPHN8-8M | Non-Valved | 1/2-18 NPT | 1.01 | 1.02 | 0.88 |
| 1/2 | SVHN8-8M | Valved | 1/2-18 NPT | 2.46 | 1.39 | 1.19 |
| 3/4 | SVHN12-12M | Valved | 3/4-18 NPT | 2.75 | 1.73 | 1.50 |
| 1 | SVHN16-16M | Valved | 1 - 11-1/2 NPT | 3.09 | 2.17 | 1.80 |
| 1-1/4 | SVHN20-20M | Valved | 1-1/4 - 11-1/2 NPT | 3.46 | 2.31 | 2.00 |

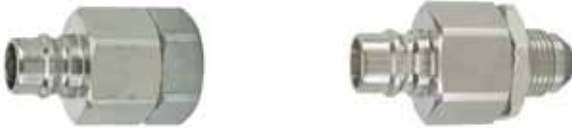


H Series Nipples (Steel) - Male SAE 37 Degree Flare



| Body Size | Part Number | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------|------------------------------|----------------|-------------|------------------|--------------|
| 1/4 | VHN4-4EM | Valved | 7/16-20 UNF | 2.02 | 1.02 | 0.88 |
| 3/8 | VHN6-6EM | Valved | 9/16-18 UNF | 2.24 | 1.19 | 1.00 |
| 1/2 | VHN8-8EM | Valved | 3/4-16 UNF | 2.35 | 1.39 | 1.19 |
| 3/4 | VHN12-12EM | Valved | 1-1/6 - 12 UNF | 2.92 | 1.73 | 1.50 |

PH Series Connect-Under-Pressure Nipples (Steel)



| Body Size | Part Number | Valved or Non-Valved (Plain) | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------|------------------------------|----------------------|-------------|------------------|--------------|
| 1/2 | VPHN8-8F | Valved | 1/2-14 NPTF (Female) | 1.98 | 1.39 | 1.19 |
| 1/2 | VPHN8-8EM | Valved | 3/4-16 UNF (Male) | 2.35 | 1.39 | 1.19 |

H Series Dust Plugs and Caps



| Body Size | Coupler Dust Plug Plastic | Coupler Dust Plug Aluminum | Nipple Dust Cap Plastic | Nipple Dust Cap Aluminum | Nipple Pressure Cap |
|-----------|---------------------------|----------------------------|-------------------------|--------------------------|---------------------|
| 1/4 | PDP-4 | AMPH-4 | PDC-4 | ADCH-4 | MCH-4 |
| 3/8 | PDP-6 | AMPH-6 | PDC-6 | ADCH-6 | MCH-6 |
| 1/2 | PDP-8 | AMPH-8 | PDC-8 | ADCH-8 | MCH-8 |
| 3/4 | PDP-12 | AMPH-12 | PDC-12 | ADCH-12 | MCH-12 |
| 1 | PDP-16 | AMPH-16 | PDC-16 | ADCH-16 | MCH-16 |
| 1-1/4 | - | AMPH-20 | - | ADCH-20 | MCH-20 |
| 1-1/2 | - | AMPH-24 | - | ADCH-24 | MCH-24 |
| 2 | - | AMPH-32 | - | ADCH-32 | MCH-32 |
| 2-1/2 | - | AMPH-40 | - | ADCH-40 | MCH-40 |
| 3 | - | AMPH-48 | - | ADCH-48 | MCH-48 |



EA Series couplings are designed specifically for vacuum and medium pressure service, providing a dependable means for speeding fluid line changeover in autoclave applications.

Features:

- Vacuum capability
- Available in a variety of materials
- Wide range of sizes
- Nitrile is standard seal material, other options available

Applications include:

- Aircraft fabrication
- Plastic molding
- Horizontal boring and dewatering

| EA Series Specifications | | | | |
|--------------------------|--------------------------------------|------------------------|--|---------------------------------|
| Body Size | Force to Connect (Valved and Valved) | | Spillage on Disconnect (Valved and Valved) | |
| | Internal Pressure (psi) | Force to Connect (lbs) | With 10 psi Internal Pressure (cc or ml) | With 50 psi Pressure (cc or ml) |
| 1/4 | 200 | 50 | 1.2 | 1.5 |
| 3/8 | 200 | 60 | 1.4 | 2.5 |
| 1/2 | 200 | 95 | 4.2 | 4.6 |
| 3/4 | 100 | 95 | 10.5 | 11.6 |

| EA Series Pressure Ratings | | | | | | |
|----------------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| Body Size | Steel | | 316 Stainless Steel | | Brass | |
| | Maximum Working (psi) | Minimum Burst (psi) | Maximum Working (psi) | Minimum Burst (psi) | Maximum Working (psi) | Minimum Burst (psi) |
| 1/4 | 3000 | 6000 | 3000 | 6000 | 1500 | 3000 |
| 3/8 | 3000 | 6000 | 3000 | 6000 | 1500 | 3000 |
| 1/2 | 3000 | 6000 | 3000 | 6000 | 1500 | 3000 |
| 3/4 | 2000 | 4000 | 2000 | 4000 | 1500 | 3000 |

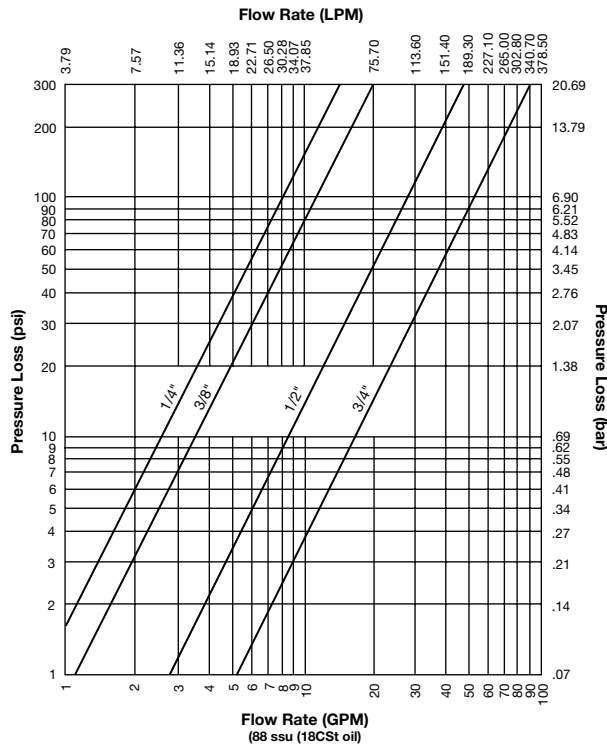
Pressure ratings were established under static pressure conditions. Therefore, pressure ratings for any given flow, pressure surge and/or vibration may vary from those ratings.

| Vacuum Capability at Standard Barometric Conditions | | | | | | | | |
|---|-------|-----|-------|-----|-------|-----|-------|-----|
| | 1/4 | | 3/8 | | 1/2 | | 3/4 | |
| | in.hg | atm | in.hg | atm | in.hg | atm | in.hg | atm |
| Connected | 29.7 | .99 | 29.7 | .99 | 29.7 | .99 | 29.7 | .99 |
| Coupler or Nipple Alone (disconnected) | 29.7 | .99 | 29.7 | .99 | 29.7 | .99 | 29.7 | .99 |

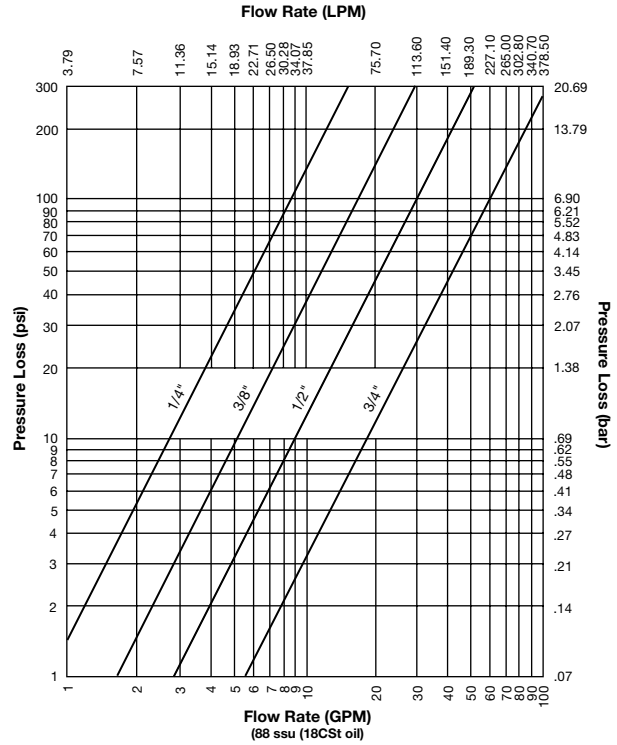


Performance

EA Series Valved & Valved (Double Shut-off)

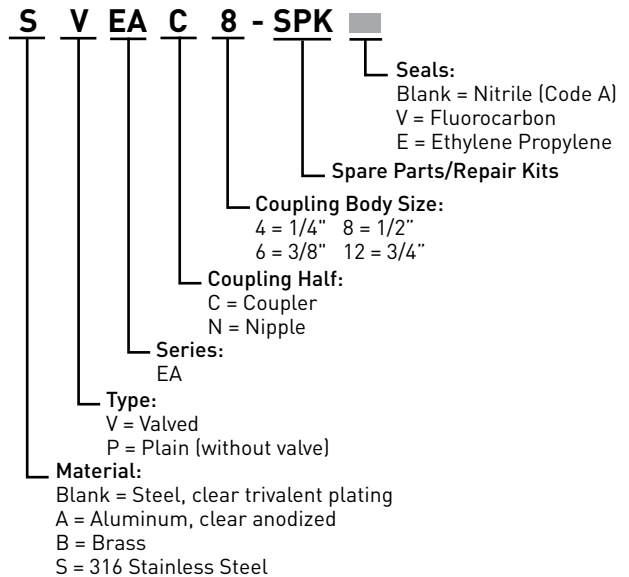


EA Series Valved & Plain (Single Shut-off)



| EA Series Repair Kits and Replacement Parts | | | |
|---|-------------|--------------------------|---------------|
| Body Size | Part Number | Description | Seal Material |
| 1/2 | VEAC8-SPK | Coupler Valve Repair Kit | Nitrile |
| 1/2 | VEAN8-SPK | Nipple Valve Repair Kit | Nitrile |
| 1/4 | EA4-58AS | Coupler Interface Seal | Aflas |
| 1/2 | EA8-58V | Coupler Interface Seal | Fluorocarbon |
| 3/4 | EA12-55A | Valve Seal | Nitrile |
| 3/4 | EA12-58A | Coupler Interface Seal | Nitrile |

Repair Kits



Optional Seal Materials for Couplers and Valved Nipples
 (add code to part number)

| Code | Description | Part Number Example |
|------------------|--|---------------------|
| suffix V | Fluorocarbon seal material | VEAN4-4FV |
| suffix E | Ethylene Propylene seal material (EPR) | VEAC6-6ME |
| suffix AS | Aflas seal material | VEAC6-6FAS |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



Hydraulic Quick Couplings
General Purpose

EA Series

Vacuum Couplings

Vacuum to Medium Pressure



EA Series Couplers (Brass, Steel, 316 Stainless Steel) - Female Thread



| Body Size | Part Number Brass | Part Number Steel | Port End | Part Number 316 Stainless Steel | Port End* | Valved or Non-Valved (Plain) | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------------|-------------------|-------------|---------------------------------|-------------|------------------------------|-------------|------------------|--------------|
| 1/4 | BPEAC4-4F | PEAC4-4F | 1/4-18 NPTF | SPEAC4-4F | 1/4-18 NPSF | Non-Valved | 1.33 | 1.13 | 0.88 |
| 1/4 | BVEAC4-4F | VEAC4-4F | 1/4-18 NPTF | SVEAC4-4F | 1/4-18 NPSF | Valved | 1.61 | 1.13 | 0.88 |
| 3/8 | BPEAC6-6F | PEAC6-6F | 3/8-18 NPTF | - | - | Non-Valved | 1.58 | 1.31 | 1.00 |
| 3/8 | BVEAC6-6F | VEAC6-6F | 3/8-18 NPTF | - | - | Valved | 1.86 | 1.31 | 1.00 |
| 1/2 | BPEAC8-8F | PEAC8-8F | 1/2-14 NPTF | - | - | Non-Valved | 1.70 | 1.44 | 1.19 |
| 1/2 | BVEAC8-8F | VEAC8-8F | 1/2-14 NPTF | SVEAN8-8F | 1/2-14NPSF | Valved | 2.09 | 1.44 | 1.19 |
| 3/4 | BPEAC12-12F | - | 3/4-14 NPTF | SPEAN12-12F | 3/4-14 NPSF | Non-Valved | 2.41 | 1.88 | 1.50 |
| 3/4 | BVEAC12-12F | VEAC12-12F | 3/4-14 NPTF | SVEAN12-12F | 3/4-14 NPSF | Valved | 1.91 | 1.88 | 1.50 |

EA Series Couplers (Brass, Steel, 316 Stainless Steel) - Male Thread



| Body Size | Part Number Brass | Part Number Steel | Port End | Part Number 316 Stainless Steel | Port End* | Valved or Non-Valved (Plain) | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------------|-------------------|-------------|---------------------------------|-------------|------------------------------|-------------|------------------|--------------|
| 1/4 | - | PEAC4-4M | 1/4-18 NPTF | SPEAC4-4M | 1/4-18 NPSF | Non-Valved | 1.48 | 1.13 | 0.88 |
| 1/4 | - | VEAC4-4M | 1/4-18 NPTF | SVEAC4-2M | 1/4-18 NPSF | Valved | 2.05 | 1.13 | 0.88 |
| 3/8 | BVEAC6-6M | VEAC6-6M | 3/8-18 NPTF | - | - | Valved | 2.15 | 1.31 | 1.00 |
| 1/2 | BVEAC8-8M | VEAC8-8M | 1/2-14 NPTF | SVEAC8-8M | 1/2-14 NPSF | Valved | 2.46 | 1.44 | 1.19 |
| 3/4 | BVEAC12-12M | VEAC12-12M | 3/4-14 NPTF | - | - | Valved | 2.87 | 1.88 | 1.50 |

*May be substituted with NPT threads

Contact QCD for additional sizes, materials and end configurations.



EA Series Nipples (Brass, Steel, 316 Stainless Steel) - Female Thread



| Body Size | Part Number Brass | Part Number Steel | Port End | Part Number 316 Stainless Steel | Port End* | Valved or Non-Valved (Plain) | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------------|-------------------|-------------|---------------------------------|-------------|------------------------------|-------------|------------------|--------------|
| 1/4 | - | - | - | SVEAN4-2F | 1/8-27 NPSF | Valved | 1.61 | 1.00 | 0.88 |
| 1/4 | BPEAN4-4F | PEAN4-4F | 1/4-18 NPTF | SPEAN4-4F | 1/4-18 NPSF | Non-Valved | 1.33 | 0.73 | 0.62 |
| 1/4 | - | VEAN4-4F | 1/4-18 NPTF | SVEAN4-4F | 1/4-18 NPSF | Valved | 1.61 | 1.00 | 0.88 |
| 3/8 | BPEAN6-6F | PEAN6-6F | 3/8-18 NPTF | - | - | Non-Valved | 1.58 | 0.94 | 0.81 |
| 3/8 | BVEAN6-6F | VEAN6-6F | 3/8-18 NPTF | - | - | Valved | 1.86 | 1.15 | 1.00 |
| 1/2 | BPEAN8-8F | PEAN8-8F | 1/2-14 NPTF | - | - | Non-Valved | 1.70 | 1.15 | 1.00 |
| 1/2 | BVEAN8-8F | VEAN8-8F | 1/2-14 NPTF | SVEAN8-8F | 1/2-14 NPSF | Valved | 2.09 | 1.31 | 1.19 |
| 3/4 | BPEAN12-12F | - | 3/4-14 NPTF | SPEAN12-12F | 3/4-14 NPSF | Non-Valved | 2.05 | 1.37 | 1.19 |
| 3/4 | BVEAN12-12F | VEAN12-12F | 3/4-14 NPTF | SVEAN12-12F | 3/4-14 NPSF | Valved | 2.29 | 1.73 | 1.50 |

EA Series Nipples (Brass, Steel, 316 Stainless Steel) - Male Thread



| Body Size | Part Number Brass | Part Number Steel | Port End | Part Number 316 Stainless Steel | Port End* | Valved or Non-Valved (Plain) | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------------|-------------------|-------------|---------------------------------|-------------|------------------------------|-------------|------------------|--------------|
| 1/4 | - | PEAN4-4M | 1/4-18 NPTF | SPEAN4-4M | 1/4-18 NPSF | Non-Valved | 1.43 | 0.65 | 0.56 |
| 1/4 | - | VEAN4-4M | 1/4-18 NPTF | SVEAN4-4M | 1/4-18 NPSF | Valved | 2.21 | 1.02 | 0.88 |
| 3/8 | BVEAN6-6M | VEAN6-6M | 3/8-18 NPTF | - | - | Valved | 2.15 | 1.15 | 1.00 |
| 1/2 | BVEAN8-8M | VEAN8-8M | 1/2-14 NPTF | SVEAN8-8M | 1/2-14 NPSF | Valved | 2.46 | 1.31 | 1.19 |
| 3/4 | BVEAN12-12M | VEAN12-12M | 3/4-14 NPTF | - | - | Valved | 2.75 | 1.65 | 1.50 |

*May be substituted with NPT threads

Contact QCD for additional sizes, materials and end configurations.

EA Series Dust Plugs and Caps



| Body Size | Coupler Dust Plug Plastic | Coupler Dust Plug Aluminum | Nipple Dust Cap Plastic | Nipple Dust Cap Aluminum | Nipple Pressure Cap |
|-----------|---------------------------|----------------------------|-------------------------|--------------------------|---------------------|
| 1/4 | PDP-4 | AMPE-4 | PDC-4 | ADCE-4 | MCE-4 |
| 3/8 | PDP-6 | AMPE-6 | PDC-6 | ADCE-6 | MCE-6 |
| 1/2 | PDP-8 | AMPE-8 | PDC-8 | ADCE-8 | MCE-8 |
| 3/4 | PDP-12 | AMPE-12 | PDC-12 | ADCE-12 | MCE-12 |



SM Series double shut-off couplings are versatile for use across a spectrum of hydraulic applications where fluid lines require connection and disconnection. Couplers and nipples are steel with nitrile seals and are available in 1/4 through 3/4 inch sizes.

Features:

- Rated pressures up to 6000 psi
- Poppet valves have captive seals to minimize seal washout
- Steel material with standard nitrile seals
- Standard end configurations include female pipe, straight thread ORB, and British pipe
- Alternative seal materials available

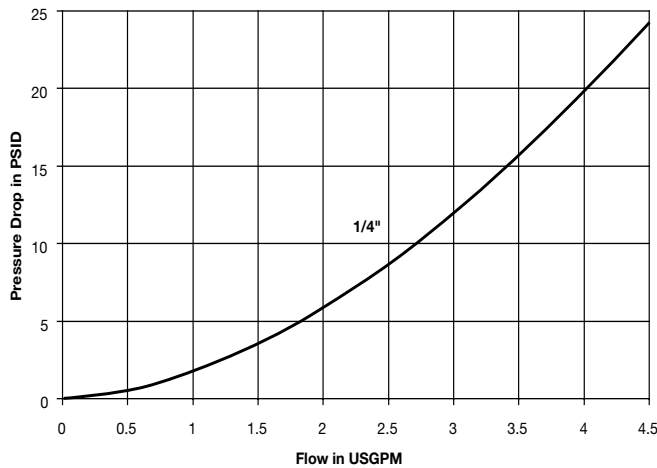
Applications:

- Industrial hydraulic lines
- Mobile equipment

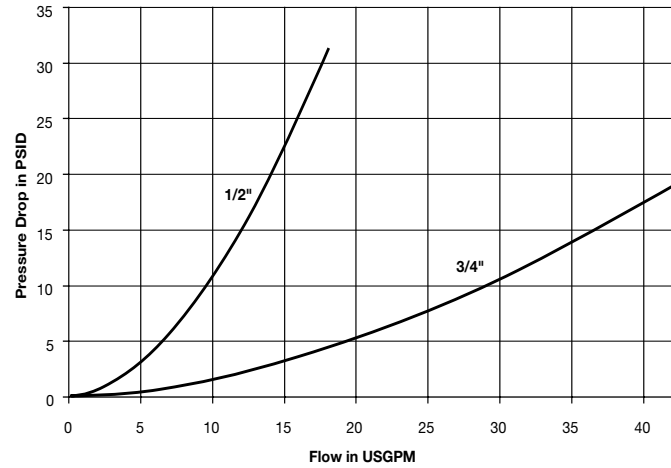
| Specifications | | | |
|--|----------------|-------|-------|
| Body Size | 1/4 | 1/2 | 3/4 |
| Rated Pressure (PSI) | 6,000 | 6,000 | 4,500 |
| Rated Flow (GPM) | 3 | 12 | 28 |
| Temperature Range (Nitrile Seals) | -40° to +250°F | | |

Performance

SM Series (1/4")
Test Fluid: Oil - 200 SUS



SM Series (1/2" & 3/4")
Test Fluid: Oil - 200 SUS



Optional Materials and Features:

(add code to part number)

| Code | Description | Part Number Example |
|---------------------|--|---------------------|
| suffix - SL | Sleeve-Lok (Couplers) | SM-501-8FP-SL |
| suffix - E5 | Ethylene Propylene seal material (EPR) | SM-501-8FP-E5 |
| suffix - E4 | Fluorocarbon seal material | SM-501-8FP-E4 |
| suffix - E12 | Neoprene seal material | SM-501-8FP-E12 |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



Couplers - Female Thread



| Body Size | Part Number Steel | Thread Size | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------------|-----------------|--------|------------------|--------------|---------------|
| 1/4 | SM-251-4FP | 1/4-18 NPTF | 2.09 | 1.06 | 0.75 | 0.24 |
| 1/4 | SM-251-4FB | G1/4 BSPP | 2.24 | 1.06 | 0.75 | 0.26 |
| 1/4 | SM-251-6FP | 3/8-18 NPTF | 2.24 | 1.06 | 0.94 | 0.28 |
| 1/4 | SM-251-6FB | G3/8 BSPP | 2.24 | 1.06 | 0.94 | 0.26 |
| 1/4 | SM-251-6FO | 9/16-18 ORB | 2.24 | 1.06 | 0.75 | 0.25 |
| 1/2 | SM-501-8FP | 1/2-14 NPTF | 3.00 | 1.56 | 1.25 | 0.70 |
| 1/2 | SM-501-8FB | G1/2 BSPP | 3.00 | 1.56 | 1.25 | 0.74 |
| 1/2 | SM-501-8FO | 3/4-16 ORB | 3.16 | 1.56 | 1.25 | 0.70 |
| 1/2 | SM-501-12FP | 3/4-14 NPTF | 3.07 | 1.56 | 1.37 | 0.81 |
| 1/2 | SM-501-12FB | G3/4 BSPP | 3.16 | 1.56 | 1.37 | 0.85 |
| 3/4 | SM-751-12FO | 1 1/16-12 ORB | 3.89 | 2.22 | 1.62 | 1.78 |
| 3/4 | SM-751-12FP | 3/4-14 NPTF | 3.77 | 2.22 | 1.62 | 1.83 |
| 3/4 | SM-751-12FB | G3/4 BSPP | 3.89 | 2.22 | 1.62 | 1.88 |
| 3/4 | SM-751-16FP | 1-11 1/2 NPTF | 3.98 | 2.22 | 1.62 | 1.84 |
| 3/4 | SM-751-16FB | G 1 BSPP | 3.98 | 2.22 | 1.62 | 1.89 |
| 3/4 | SM-751-16FO | 1-5/16 - 12 ORB | 3.98 | 2.22 | 1.62 | 1.89 |

Nipple - Female Thread



| Body Size | Part Number Steel | Thread Size | Length | Exposed* Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------------|-----------------|--------|-----------------|------------------|--------------|---------------|
| 1/4 | SM-252-4FP | 1/4-18 NPTF | 1.49 | 0.50 | 0.87 | 0.75 | 0.08 |
| 1/4 | SM-252-4FB | G1/4 BSPP | 1.64 | 0.65 | 0.87 | 0.75 | 0.09 |
| 1/4 | SM-252-6FP | 3/8-18 NPTF | 1.64 | 0.81 | 1.08 | 0.94 | 0.14 |
| 1/4 | SM-252-6FB | G3/8 BSPP | 1.64 | 0.81 | 1.08 | 0.94 | 0.14 |
| 1/4 | SM-252-6FO | 9/16-18 ORB | 1.64 | 0.55 | 0.87 | 0.75 | 0.08 |
| 1/2 | SM-502-8FO | 3/4-16 ORB | 2.14 | 0.72 | 1.23 | 1.06 | 0.16 |
| 1/2 | SM-502-8FP | 1/2-14 NPTF | 2.01 | 0.45 | 1.23 | 1.06 | 0.15 |
| 1/2 | SM-502-8FB | G1/2 BSPP | 2.01 | 0.60 | 1.23 | 1.06 | 0.18 |
| 1/2 | SM-502-12FP | 3/4-14 NPTF | 2.31 | 0.90 | 1.59 | 1.37 | 0.30 |
| 1/2 | SM-502-12FB | G3/4 BSPP | 2.63 | 1.07 | 1.59 | 1.37 | 0.34 |
| 3/4 | SM-752-12FO | 1 1/16-12 ORB | 2.60 | 0.39 | 1.73 | 1.50 | 0.48 |
| 3/4 | SM-752-12FP | 3/4-14 NPTF | 2.48 | 0.39 | 1.73 | 1.50 | 0.52 |
| 3/4 | SM-752-12FB | G3/4 BSPP | 2.60 | 0.53 | 1.73 | 1.50 | 0.56 |
| 3/4 | SM-752-16FP | 1-11 1/2 NPTF | 2.69 | 0.67 | 1.88 | 1.62 | 0.56 |
| 3/4 | SM-752-16FB | G 1 BSPP | 2.69 | 0.67 | 1.88 | 1.62 | 0.68 |
| 3/4 | SM-752-16FO | 1-5/16 - 12 ORB | 2.69 | 0.67 | 1.88 | 1.62 | 0.68 |

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.

Hydraulic Quick Couplings
General Purpose

SM Series

High Pressure

Manual sleeve, poppet valve



B Hydraulics

SM Series Dust Caps and Plugs



| Body Size | Nipple Dust Cap | Color/Material | Coupler Dust Plug |
|-----------|-----------------|----------------|-------------------|
| 1/4 | N/A | Plastic | PL-25 |
| 1/4 | CR-25 | Black Rubber | PR-25 |
| 1/4 | C-25 | Aluminum | P-25 |
| 1/2 | DC-50 | Black Rubber | DP-50 |
| 1/2 | C-50 | Aluminum | P-50 |
| 3/4 | C-75 | Aluminum | P-75 |



HP Series double shut-off couplings are designed for pressures up to 5000 psi. Couplers and nipples are steel with nitrile seals and are available in 1 and 1-1/2 inch sizes.

Features:

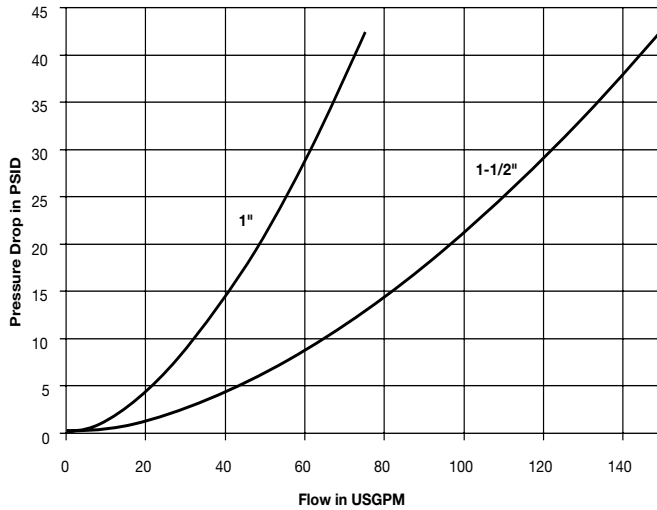
- Rated pressures up to 5000 psi
- Smooth flow path with minimal pressure drop
- Heat treated steel nipple and heavy duty sleeve withstand pressure surges
- Couplings have protective zinc with clear trivalent chromate finish
- Standard end configurations include female pipe and straight thread ORB
- Alternative seal materials available

Applications:

- Industrial hydraulic lines
- Mobile equipment

Performance

HP Series (1" & 1-1/2")
 Test Fluid: Oil - 200 SUS



Specifications

| | | |
|--------------------------------------|----------------|---------|
| Body Size | 1 | 1 - 1/2 |
| Rated Pressure (PSI) | 5,000 | |
| Rated Flow (GPM) | 50 | 100 |
| Temperature Range (std seals) | -40° to +250°F | |

Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|--------------------|--|---------------------|
| suffix -E5 | Ethylene Propylene seal material (EPR) | HP-1001-16FP-E5 |
| suffix -E4 | Fluorocarbon seal material | HP-1001-16FP-E4 |
| suffix -E12 | Neoprene seal material | HP-1001-16FP-E12 |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



Couplers



| Body Size | Part Number | Thread Size | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------|-------------------|--------|------------------|--------------|---------------|
| 1 | HP-1001-16FP | 1 11-1/2 NPSF | 3.95 | 2.38 | 1.62 | 2.10 |
| 1 | HP-1001-16FO | 1 5/16-12 ORB | 4.35 | 2.38 | 1.62 | 2.10 |
| 1-1/2 | HP-1501-24FP | 1 1/2-11 1/2 NPTF | 4.93 | 3.00 | 2.25 | 4.40 |
| 1-1/2 | HP-1501-24FO | 1 7/8 -12 ORB | 4.93 | 3.00 | 2.25 | 4.40 |

Nipples



| Body Size | Part Number | Thread Size | Overall Length | Exposed* Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------|-------------------|----------------|-----------------|------------------|--------------|---------------|
| 1 | HP-1002-16FP | 1 11-1/2 NPSF | 3.00 | 1.32 | 1.88 | 1.62 | 0.84 |
| 1 | HP-1002-16FO | 1 5/16-12 ORB | 3.40 | 1.72 | 1.88 | 1.62 | 0.84 |
| 1-1/2 | HP-1502-24FP | 1 1/2-11 1/2 NPTF | 4.06 | 0.99 | 2.63 | 2.25 | 1.85 |
| 1-1/2 | HP-1502-24FO | 1 7/8-12 ORB | 4.06 | 0.99 | 2.63 | 2.25 | 1.85 |

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.

Dust Plugs and Caps



| Protective Plugs for Coupler | | | Protective Caps for Nipple | | |
|------------------------------|----------|--------------|----------------------------|----------|-------------|
| P/N | Material | Fits Coupler | P/N | Material | Fits Nipple |
| HPP-100 | Aluminum | HP-1001 | HPC-100 | Aluminum | HP-1002 |
| HPP-150 | Aluminum | HP-1501 | HPC-150 | Aluminum | HP-1502 |



The 4000 Series brings to the industry a proven design for use on agricultural machinery and other rugged applications.

Features:

- 1/2" size accepts ISO 5675 universal tips
- Basic operation where coupler sleeve is manually retracted to allow connection with male tip
- Critical parts are hardened
- Ball and poppet valve options
- Protective zinc plating with clear trivalent chromate finish

Applications include:

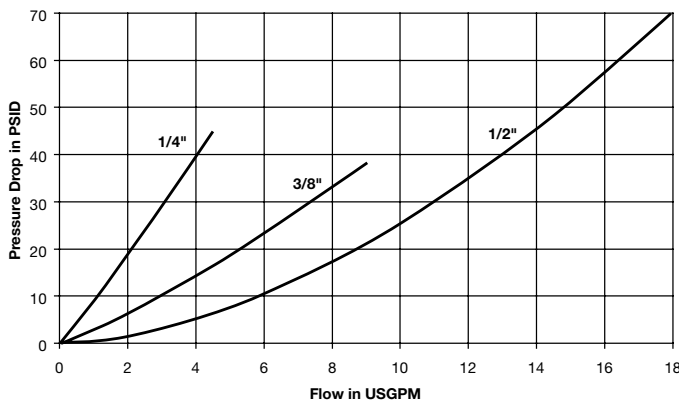
- Hydraulic Loaders
- Add-on hydraulic circuits
- Hydraulic tools



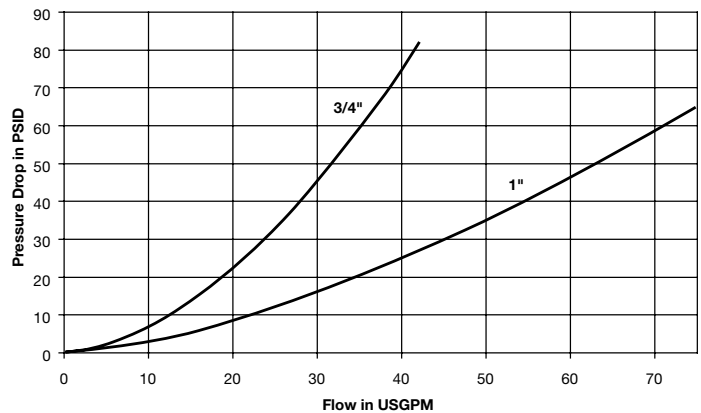
| 4000 Series Specifications: | | | | | | |
|-----------------------------|------------------|----------------------|-------------------|---------------|----------------|---------------|
| Body Size | Rated Flow (gpm) | Rated Pressure (psi) | Temperature | Body Material | Sleeve Type | Seal Material |
| 1/4 | 3 | 3000 | -40° F to +250° F | Steel | Manual Connect | Nitrile |
| 3/8 | 6 | | | | | |
| 1/2 | 12 | | | | | |
| 3/4 | 28 | | | | | |
| 1 | 50 | | | | | |

Performance:

4000 Series (1/4", 3/8", 1/2")
 Test Fluid: Oil - 200 SUS



4000 Series (3/4" & 1")
 Test Fluid: Oil - 200 SUS



Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|----------|---------------------------------------|---------------------|
| suffix W | Ethylene Propylene seal material- EPR | 4050-4PW |
| suffix Y | Fluorocarbon seal material | 4050-4PY |
| suffix Z | Neoprene seal material | 4050-4PZ |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.





4000 Series Couplers



| Body Size | Coupler Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|-------------------|------------|--------|------------------|--------------|---------------|
| 1/4 | 4050-2P | 1/4-18 NPTF | Poppet | 2.18 | 1.06 | 0.88 | 0.24 |
| 1/4 | 4050-2P-T8M | 3/4-16 ORB (Male) | Poppet | 1.80 | 1.06 | 0.88 | 0.21 |
| 1/4 | 4050-T6 | 9/16-18 ORB | Poppet | 2.18 | 1.06 | 0.88 | 0.27 |
| 1/4 | 4050P-T6* | 9/16-18 ORB | Poppet | 2.43 | 1.33 | 0.88 | 0.33 |
| 3/8 | 4050-3P | 3/8-18 NPTF | Poppet | 2.31 | 1.33 | 0.94 | 0.51 |
| 1/2 | 4050-4 | 1/2-14 NPTF | Ball | 2.60 | 1.50 | 1.06 | 0.58 |
| 1/2 | 4050-4P | 1/2-14 NPTF | Poppet | 2.60 | 1.50 | 1.06 | 0.58 |
| 1/2 | 4050-5 | 3/4-14 NPTF | Ball | 2.69 | 1.50 | 1.13 | 0.71 |
| 1/2 | 4050-5P | 3/4-14 NPTF | Poppet | 2.69 | 1.50 | 1.13 | 0.71 |
| 1/2 | 4050-15 | 3/4-16 ORB | Ball | 2.81 | 1.50 | 1.06 | 0.64 |
| 1/2 | 4050-15P | 3/4-16 ORB | Poppet | 2.81 | 1.50 | 1.06 | 0.64 |
| 1/2 | 4050-16 | 7/8-14 ORB | Ball | 2.75 | 1.50 | 1.06 | 0.59 |
| 1/2 | 4050-16P | 7/8-14 ORB | Poppet | 2.75 | 1.50 | 1.06 | 0.59 |
| 1/2 | 4050-29BSPP | 1/2-14 BSPP | Ball | 2.68 | 1.50 | 1.06 | 0.59 |
| 3/4 | 4150-5 | 3/4-14 NPTF | Ball | 3.06 | 1.87 | 1.38 | 1.00 |
| 1 | 4050-6P | 1-11 1/2 NPTF | Poppet | 3.84 | 2.08 | 1.63 | 1.89 |

* Special Push/Pull Sleeve

8010 Series Nipples



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Exposed Length* | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|---------------|------------|--------|-----------------|------------------|--------------|---------------|
| 1/4 | 4010-2P | 1/4-18 NPTF | Poppet | 1.48 | 0.71 | 0.87 | 0.75 | 0.08 |
| 1/4 | 4010-T6 | 9/16-18 ORB | Poppet | 1.60 | 0.81 | 0.87 | 0.75 | 0.09 |
| 3/8 | 4010-3P | 3/8-18 NPTF | Poppet | 1.60 | 0.80 | 1.08 | 0.94 | 0.16 |
| 1/2 | 8010-4 | 1/2-14 NPTF | Ball | 1.95 | 1.09 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-4P | 1/2-14 NPTF | Poppet | 1.95 | 1.09 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-5 | 3/4-14 NPTF | Ball | 2.14 | 1.28 | 1.44 | 1.25 | 0.25 |
| 1/2 | 8010-5P | 3/4-14 NPTF | Poppet | 2.14 | 1.28 | 1.44 | 1.25 | 0.25 |
| 1/2 | 8010-15 | 3/4-16 ORB | Ball | 1.95 | 1.20 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-15P | 3/4-16 ORB | Poppet | 1.95 | 1.20 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-16 | 7/8-14 ORB | Ball | 1.95 | 1.18 | 1.23 | 1.06 | 0.25 |
| 1/2 | 8010-16P | 7/8-14 ORB | Poppet | 1.95 | 1.18 | 1.23 | 1.06 | 0.25 |
| 1/2 | 8010-29BSPP | 1/2-14 BSPP | Ball | 1.95 | 1.09 | 1.18 | 1.06 | 0.25 |
| 3/4 | 4110-5 | 3/4-14 NPTF | Ball | 1.81 | 1.23 | 1.52 | 1.31 | 0.50 |
| 1 | 4010-6P | 1-11 1/2 NPTF | Poppet | 2.79 | 1.49 | 1.88 | 1.63 | 0.62 |

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.

B Hydraulics

Hydraulic Quick Couplings

General Purpose

4000 Series

Accepts ISO 5675 Nipples (1/2" size)

Manual sleeve, poppet/ball valve



| 4050 Series Replacement O-Rings | | | |
|---------------------------------|----------|----------------|-----------|
| Body Size | Material | Part Number | Durometer |
| 1/4 | Nitrile | 50001-113-0260 | 90 |
| 3/8 | Nitrile | 50001-116-0260 | 90 |
| 1/2 | Nitrile | 50001-211-0260 | 90 |
| 3/4 | Nitrile | 50001-215-0010 | 70 |
| 1 | Nitrile | 50001-218-0260 | 90 |

| 4000 Series Dust Caps and Plugs | | | | |
|---------------------------------|---------------------|----------------|-------------------|---------------|
| | | | | |
| Body Size | Dust Plug (Coupler) | Color/Material | Dust Cap (Nipple) | Weight (lbs.) |
| 1/4 | 5205-2M | Black Rubber | 5209-2M | .02 |
| 3/8 | 5205-3M | Black Rubber | 5209-3M | .03 |
| 1/2 | 5205-4M | Black Rubber | 5209-4M | .04 |
| 1/2 | 5005-4 | Steel w/Chain | 5009-4 | .21 |
| 1/2 | 5205-4M-BU | Blue Rubber | 5209-4M-BU | .04 |
| 1/2 | 5205-4M-GR | Green Rubber | 5209-4M-GR | .04 |
| 1/2 | 5205-4M-RE | Red Rubber | 5209-4M-RE | .04 |
| 1/2 | 5205-4M-YE | Yellow Rubber | 5209-4M-YE | .04 |
| 3/4 | 5205-5M | Black Rubber | 5209-5M | .05 |
| 1 | 5205-6M | Black Rubber | 5209-6M | .06 |



The 4200 Series brings to the industry a proven design for use on agricultural machinery, construction equipment, and other rugged applications where a breakaway feature is desirable.

Features:

- 1/2" size accepts ISO 5675 universal tips
- Grooves in sleeve to accommodate retaining rings for bulkhead mounting
- One-handed push-to-connect operation when coupler is clamp mounted
- 1/2" body size couplers are compatible with 5001-4 and 5006-4 breakaway clamps
- Critical parts are hardened
- Ball and poppet valve options
- Protective zinc plating with clear trivalent chromate finish

Applications include:

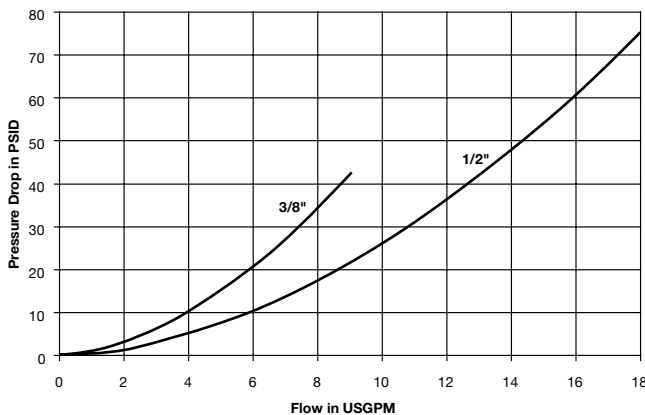
- Hydraulic Loaders
- Add-on hydraulic circuits
- Implement breakaway
- Hydraulic tools

4200 Series Specifications:

| Body Size | Rated Flow (gpm) | Rated Pressure (psi) | Temperature | Body Material | Sleeve Type | Seal Material |
|-----------|------------------|----------------------|-------------------|---------------|-------------------------|---------------|
| 3/8 | 6 | 3000 | -40° F to +250° F | Steel | Push/pull/ breakaway | Nitrile |
| 1/2 | 12 | | | | | |

Performance:

4200 Series (3/8" & 1/2")
 Test Fluid: Oil - 200 SUS



4200 Series Dust Caps and Plugs



| Body Size | Dust Plug (Coupler) | Color/Material | Dust Cap (Nipple) | Weight (lbs.) |
|-----------|---------------------|----------------|-------------------|---------------|
| 3/8 | 5205-3M | Black Rubber | 5209-3M | .03 |
| 1/2 | 5205-4M | Black Rubber | 5209-4M | .04 |
| 1/2 | 5005-4 | Steel w/Chain | 5009-4 | .21 |
| 1/2 | 5205-4M-BU | Blue Rubber | 5209-4M-BU | .04 |
| 1/2 | 5205-4M-GR | Green Rubber | 5209-4M-GR | .04 |
| 1/2 | 5205-4M-RE | Red Rubber | 5209-4M-RE | .04 |
| 1/2 | 5205-4M-YE | Yellow Rubber | 5209-4M-YE | .04 |

Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|-----------------|---------------------------------------|---------------------|
| suffix W | Ethylene Propylene seal material- EPR | 4250-4PW |
| suffix Y | Fluorocarbon seal material | 4250-4PY |
| suffix Z | Neoprene seal material | 4250-4PZ |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



4200 Series Couplers



| Body Size | Coupler Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|-------------|------------|--------|------------------|--------------|---------------|
| 3/8 | 4250-3P | 3/8-18 NPTF | Poppet | 2.31 | 1.31 | 0.81 | 0.39 |
| 1/2 | 4250-4 | 1/2-14 NPTF | Ball | 2.68 | 1.50 | 0.94 | 0.55 |
| 1/2 | 4250-4P | 1/2-14 NPTF | Poppet | 2.68 | 1.50 | 0.94 | 0.55 |
| 1/2 | 4250-15 | 3/4-16 ORB | Ball | 2.68 | 1.50 | 0.94 | 0.55 |
| 1/2 | 4250-15P | 3/4-16 ORB | Poppet | 2.68 | 1.50 | 0.94 | 0.55 |

8010 Series Nipples



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Exposed Length* | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|-------------|------------|--------|-----------------|------------------|--------------|---------------|
| 3/8 | 4010-3P | 3/8-18 NPTF | Poppet | 1.60 | 0.80 | 1.08 | 0.94 | 0.16 |
| 1/2 | 8010-4 | 1/2-14 NPTF | Ball | 1.95 | 1.09 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-4P | 1/2-14 NPTF | Poppet | 1.95 | 1.09 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-15 | 3/4-16 ORB | Ball | 2.06 | 1.20 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-15P | 3/4-16 ORB | Poppet | 2.06 | 1.20 | 1.23 | 1.06 | 0.20 |

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.

8010 Series Nipples (Connect Under Pressure)



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Exposed Length* | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|-------------|------------|--------|-----------------|------------------|--------------|---------------|
| 1/2 | 8010-4P-DC | 1/2-14 NPTF | DC Poppet | 1.81 | 1.09 | 1.06 | 1.16 | 0.20 |
| 1/2 | 8010-15P-DC | 1/2-14 NPTF | DC Poppet | 1.81 | 1.09 | 1.06 | 1.16 | 0.20 |

4250 Series Replacement O-Rings

| Body Size | Material | Part Number | Durometer |
|-----------|----------|----------------|-----------|
| 3/8 | Nitrile | 50001-116-0260 | 90 |
| 1/2 | Nitrile | 50001-211-0260 | 90 |



NS Series non-spill couplings are designed to minimize spillage and air inclusion when connecting or disconnecting. Couplers and nipples are steel with nitrile seals. 1/2 inch through 1 inch sizes utilize a PTFE back-up ring as additional support to the interface seal.

Features:

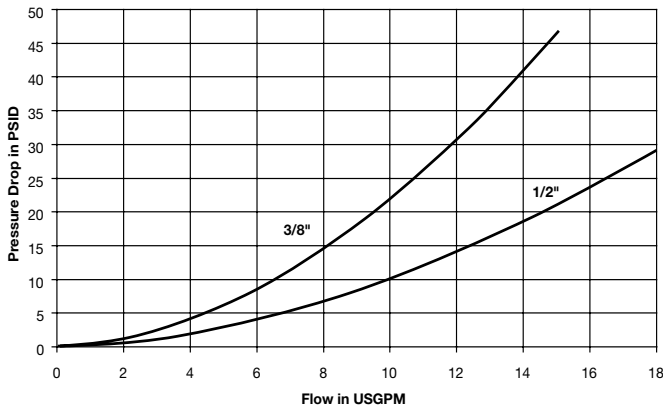
- Rated pressure up to 2500 psi
- Positive valve stop prevents flow checking
- Heat treated steel nipple and heavy duty sleeve withstand pressure surges
- Standard sleeve lock guards against accidental disconnection
- Couplings have protective zinc with clear trivalent chromate finish
- Standard end configurations include female pipe, straight thread ORB, and BSPP
- Alternative seal materials available

Applications:

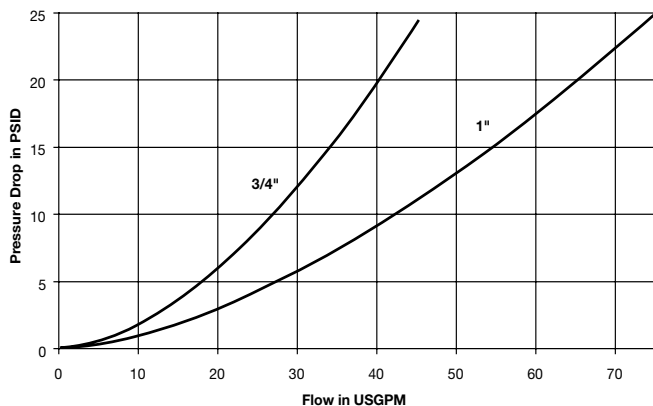
- Hydraulic hand tools
- Utility equipment
- Mining equipment

Performance

NS Series (3/8" & 1/2")
 Test Fluid: Oil - 200 SUS



NS Series (3/4" & 1")
 Test Fluid: Oil - 200 SUS



Specifications

| | | | | |
|---|----------------|-------|-------|-------|
| Body Size | 3/8 | 1/2 | 3/4 | 1 |
| Rated Pressure (psi) | 2,500 | | | |
| Rated Flow (gpm) | 10 | 12 | 30 | 50 |
| Temperature Range (std seals) | -40° to +250°F | | | |
| Spillage (ml) (max. per disconnect) | 0.020 | 0.070 | 0.150 | 0.220 |
| Air Inclusion (ml) (max. per disconnect) | 0.010 | 0.020 | 0.050 | 0.070 |

NS Series Dust Plug/Caps



| Body Size | Dust Plug/Cap Rubber |
|-----------|----------------------|
| 3/8 | NR-37 |
| 1/2 | NR-50 |
| 3/4 | NR-75 |
| 1 | NR-100 |



Couplers



| Body Size | Part Number Steel | Thread Size | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------------|---------------|--------|------------------|--------------|---------------|
| 3/8 | NS-371-6FP | 3/8-18 NPSF | 2.10 | 1.13 | 1.06 | 0.36 |
| 3/8 | NS-371-6FB | G3/8 BSPP | 2.10 | 1.13 | 1.06 | 0.38 |
| 3/8 | NS-371-8FO | 3/4-16UNF | 2.20 | 1.13 | 1.06 | 0.40 |
| 1/2 | NS-501-8FP | 1/2-14 NPSF | 2.88 | 1.56 | 1.25 | 0.84 |
| 1/2 | NS-501-8FB | G1/2 BSPP | 2.95 | 1.56 | 1.25 | 0.74 |
| 1/2 | NS-501-10FO | 7/8-14UNF | 2.97 | 1.56 | 1.25 | 0.80 |
| 3/4 | NS-751-12FP | 3/4-14 NPSF | 3.19 | 1.96 | 1.56 | 1.48 |
| 3/4 | NS-751-12FB | G3/4 BSPP | 3.38 | 1.96 | 1.56 | 1.54 |
| 3/4 | NS-751-12FO | 1 1/16-12UN | 3.51 | 1.96 | 1.56 | 1.58 |
| 1 | NS-1001-16FP | 1-11 1/2 NPSF | 3.70 | 2.25 | 1.75 | 2.35 |
| 1 | NS-1001-16FB | G 1 BSPP | 3.81 | 2.25 | 1.75 | 2.36 |
| 1 | NS-1001-16FO | 1 5/16-12UN | 3.81 | 2.25 | 1.75 | 2.36 |

Nipples



| Body Size | Part Number Steel | Thread Size | Overall Length | Exposed* Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------------|---------------|----------------|-----------------|------------------|--------------|---------------|
| 3/8 | NS-372-6FP | 3/8-18 NPSF | 1.70 | 1.17 | 1.08 | 0.94 | 0.16 |
| 3/8 | NS-372-6FB | G3/8 BSPP | 1.78 | 1.25 | 1.08 | 0.94 | 0.16 |
| 3/8 | NS-372-8FO | 3/4-16UNF | 1.91 | 1.38 | 1.23 | 1.06 | 0.20 |
| 1/2 | NS-502-8FP | 1/2-14 NPSF | 1.81 | 0.69 | 1.23 | 1.06 | 0.20 |
| 1/2 | NS-502-8FB | G1/2 BSPP | 1.95 | 0.83 | 1.23 | 1.06 | 0.22 |
| 1/2 | NS-502-10FO | 7/8-14UNF | 2.14 | 1.02 | 1.23 | 1.06 | 0.23 |
| 3/4 | NS-752-12FP | 3/4-14 NPSF | 2.25 | 1.12 | 1.59 | 1.37 | 0.48 |
| 3/4 | NS-752-12FB | G3/4 BSPP | 2.47 | 1.34 | 1.59 | 1.37 | 0.54 |
| 3/4 | NS-752-12FO | 1 1/16-12UN | 2.62 | 1.49 | 1.59 | 1.37 | 0.65 |
| 1 | NS-1002-16FP | 1-11 1/2 NPSF | 2.64 | 1.54 | 1.88 | 1.62 | 0.72 |
| 1 | NS-1002-16FB | G 1 BSPP | 2.78 | 1.68 | 1.88 | 1.62 | 0.74 |
| 1 | NS-1002-16FO | 1 5/16-12UN | 2.78 | 1.68 | 1.88 | 1.62 | 0.80 |

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.

Standard Port Configurations

- FP** - Female Pipe Thread
- FO** - Female Straight Thread
- FB** - Female British Standard Parallel Pipe

Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|-------------------|--|---------------------|
| suffix -E5 | Ethylene Propylene seal material (EPR) | NS-502-8FP-E5 |
| suffix -E4 | Fluorocarbon seal material | NS-502-8FP-E4 |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.





Parker Non-Spill Adapters were designed to accommodate the widespread use of several coupling types in mobile equipment. These adapters allow the user to adapt between poppet style, (ISO 7241-A), 6600 series couplings and non-spill type, (ISO 16028), FEM series couplings. They are useful where multiple hydraulic attachments are being utilized.

Features:

- Adapts flush, non-spill valving to / from poppet style
- Global interchangeability with other ISO 16028 and ISO 7241-A compliant couplings
- Protective zinc plating with clear trivalent chromate finish

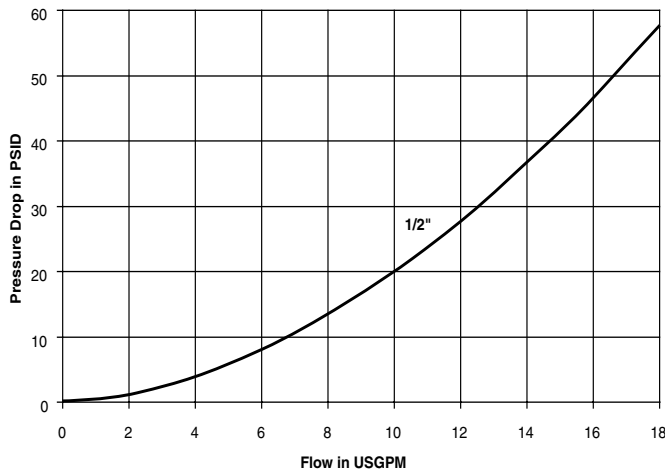
Applications include:

- Skid loader attachments

B Hydraulics

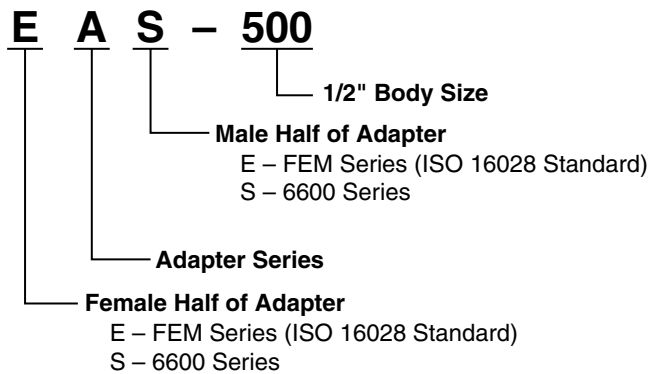
Performance

FEM/FF to 6600 Adapter (1/2")
 Test Fluid: Oil - 200 SUS



How To Order

Adapter Part Number



| Specifications | | | | | |
|----------------|---------------------|------------------|-------------------|--|--|
| Body Size | Rate Pressure (psi) | Rated Flow (gpm) | Temperature Range | Flush Face End Spillage (ml) max. per disconnect | Flush Face End Air Inclusion (ml) max. per connect |
| 1/2 | 3625 | 12 | -40° to +250° F | .020 | .070 |

| Adapters | | | | | |
|-----------|-------------|-------------|--------|--------------|------------------|
| | | | | | |
| Body Size | Part Number | Thread Size | Length | Wrench Flats | Largest Diameter |
| 1/2 | EAS-500 | N/A | 3.36 | 1.38 | 1.50 |
| 1/2 | SAE-500 | N/A | 3.00 | 1.25 | 1.48 |



FF Series couplings eliminate spillage and air inclusion when connecting and disconnecting. The sleeve locking mechanism prevents accidental disconnection. 3/8" body size complies with Hydraulic Tool Manufacturers Association standards. FC nipples provide a connect-under-pressure option for trapped pressures up to 3000 psi on the nipple side.

Features

- Flush, non-spill valving
- Hardened steel sleeves and nipple bodies
- Locking sleeve
- Blow-out resistant seal
- Connect-under-pressure FC nipple option
- Protective zinc plating with clear trivalent chromate finish

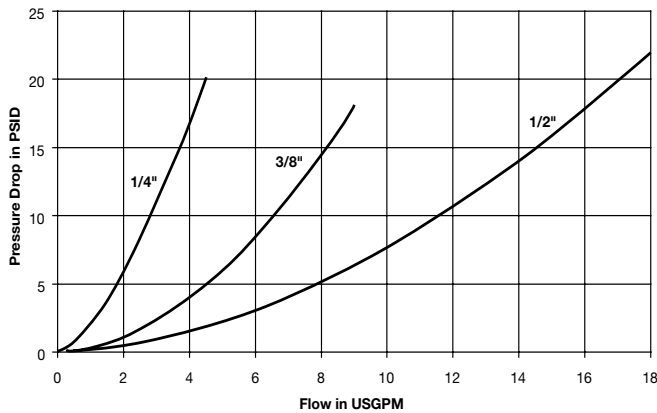
Applications include:

- Hydraulic tools
- Mobile equipment
- Industrial hydraulics

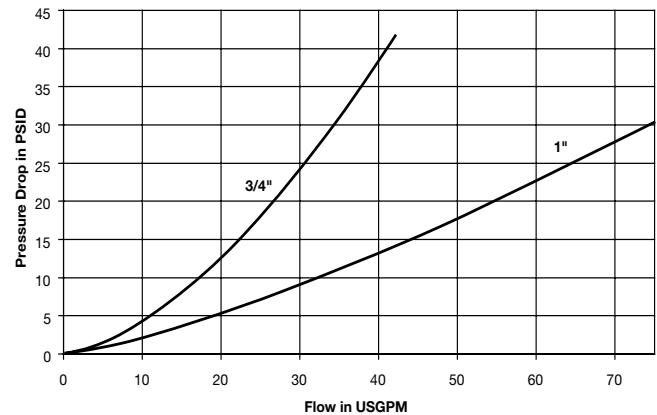
B Hydraulics

Performance

FF Series (1/4", 3/8", 1/2")
 Test Fluid: Oil - 200 SUS



FF Series (3/4" & 1")
 Test Fluid: Oil - 200 SUS



| FF Series Specifications | | | | | | | | |
|--------------------------|----------------------|------------------|-------------------|-----------------------------------|-------------------------------------|---------------|-----------------|----------------------|
| Body Size | Rated Pressure (psi) | Rated Flow (gpm) | Temperature Range | Spillage (ml) max. per disconnect | Air Inclusion (ml) max. per connect | Body Material | Sleeve Type | Seal Material |
| 1/4 | 5000 | 3 | -40° to +250°F | .015 | .020 | Steel | Push to Connect | Nitrile/Polyurethane |
| 3/8 | 3000 | 6 | | .015 | .020 | | | |
| 1/2 | 3000 | 12 | | .080 | .070 | | | |
| 3/4 | 3000 | 28 | | .150 | .100 | | | |
| 1 | 3000 | 50 | | .200 | .150 | | | |



FF Series Couplers



| Body Size | Coupler Part Number | Port End | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|---------------|--------|------------------|--------------|---------------|
| 1/4 | FF-251-4FP | 1/4-18 NPSF | 1.79 | 1.06 | 1.00 | 0.23 |
| 1/4 | FF-251-4MP | 1/4-18 NPTF | 1.84 | 1.06 | 1.00 | 0.24 |
| 1/4 | FF-251-6FO | 9/16-18 UNF | 1.91 | 1.06 | 1.00 | 0.23 |
| 3/8 | FF-371-6FP | 3/8-18 NPSF | 2.39 | 1.20 | 1.06 | 0.44 |
| 3/8 | FF-371-8FP | 1/2-14 NPSF | 2.80 | 1.20 | 1.06 | 0.50 |
| 3/8 | FF-371-6FB | G3/8 BSPP | 2.45 | 1.20 | 1.06 | 0.45 |
| 3/8 | FF-371-8FB | G1/2 BSPP | 2.80 | 1.20 | 1.06 | 0.48 |
| 3/8 | FF-371-8FO | 3/4-16 UNF | 2.82 | 1.20 | 1.06 | 0.52 |
| 1/2 | FF-501-8FP | 1/2-14 NPSF | 3.00 | 1.54 | 1.25 | 0.88 |
| 1/2 | FF-501-10FO | 7/8-14 UNF | 3.00 | 1.54 | 1.25 | 1.05 |
| 3/4 | FF-751-12FP | 3/4-14 NPSF | 3.50 | 1.94 | 1.75 | 1.84 |
| 3/4 | FF-751-12FO | 1 1/16-12 UNF | 3.75 | 1.94 | 1.75 | 1.93 |
| 1 | FF-1001-16FP | 1-11 1/2NPSF | 4.14 | 2.25 | 1.87 | 2.64 |
| 1 | FF-1001-16FO | 1 5/16-12UNF | 4.24 | 2.25 | 1.87 | 2.68 |

FF Series Nipples



| Body Size | Nipple Part Number | Port End | Length | Exposed Length* | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|---------------|--------|-----------------|------------------|--------------|---------------|
| 1/4 | FF-252-4FP | 1/4-18 NPSF | 1.66 | 1.15 | 1.06 | 1.00 | 0.16 |
| 1/4 | FF-252-4MP | 1/4-18 NPTF | 1.72 | 1.18 | 1.06 | 1.00 | 0.26 |
| 1/4 | FF-252-6FO | 9/16-18 UNF | 1.66 | 1.15 | 1.06 | 1.00 | 0.16 |
| 3/8 | FF-372-6FP | 3/8-18 NPSF | 2.31 | 1.71 | 1.08 | 0.94 | 0.26 |
| 3/8 | FF-372-8FP | 1/2-14 NPSF | 2.64 | 2.04 | 1.19 | 1.06 | 0.32 |
| 3/8 | FF-372-6FB | G3/8 BSPP | 2.45 | 1.86 | 1.08 | 0.94 | 0.28 |
| 3/8 | FF-372-8FB | G1/2 BSPP | 2.70 | 2.16 | 1.19 | 1.06 | 0.32 |
| 3/8 | FF-372-8FO | 3/4-16 UNF | 2.70 | 2.16 | 1.19 | 1.06 | 0.3 |
| 1/2 | FF-502-8FP | 1/2-14 NPSF | 2.75 | 2.11 | 1.38 | 1.25 | 0.42 |
| 1/2 | FF-502-10FO | 7/8-14 UNF | 2.75 | 2.07 | 1.38 | 1.25 | 0.44 |
| 3/4 | FF-752-12FP | 3/4-14 NPSF | 3.38 | 2.47 | 1.73 | 1.50 | 1.00 |
| 3/4 | FF-752-12FO | 1 1/16-12 UNF | 3.58 | 2.47 | 1.73 | 1.50 | 1.02 |
| 1 | FF-1002-16FP | 1-11 1/2 NPSF | 3.85 | 2.60 | 2.17 | 1.87 | 1.60 |
| 1 | FF-1002-16FO | 1 5/16-12UNF | 3.85 | 2.60 | 2.17 | 1.87 | 1.70 |

Standard Port Configurations: **FP** - Female Pipe Thread **FO** - Female Straight Thread
MP - Male Pipe Thread **FB** - Female British Standard Pipe Parallel

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.



Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|------------|--|---------------------|
| suffix -E5 | Ethylene Propylene seal material (EPR) | FF-501-8FP-E5 |
| suffix -E4 | Fluorocarbon seal material | FF-501-8FP-E4 |

Optional seals include O-ring & Back-Up Ring, not Anti-Blow Out bonded seal. Contact QCD for availability and additional options. To select proper seal materials, see Fluid Compatibility Chart or contact QCD.

| FF Series Repair Kits | | | | Spline Tool |
|-----------------------|-------------|----------------|----------------|-----------------|
| 1/4" Nipple | FF-252-KIT | FF-252-KIT-E4 | FF-252-KIT-E5 | - |
| 1/4" Coupler | FF-251-KIT | FF-251-KIT-E4 | FF-251-KIT-E5 | FF/FS-251-TOOL |
| 3/8" Nipple | FF-372-KIT | FF-372-KIT-E4 | FF-372-KIT-E5 | - |
| 3/8" Coupler | FF-371-KIT | FF-371-KIT-E4 | FF-371-KIT-E5 | FF/FS-371-TOOL |
| 3/4" Nipple | FF-752-KIT | FF-752-KIT-E4 | FF-752-KIT-E5 | - |
| 3/4" Coupler | FF-751-KIT | FF-751-KIT-E4 | FF-751-KIT-E5 | FF/FS-751-TOOL |
| 1" Nipple | FF-1002-KIT | FF-1002-KIT-E4 | FF-1002-KIT-E5 | - |
| 1" Coupler | FF-1001-KIT | FF-1001-KIT-E4 | FF-1001-KIT-E5 | FF/FS-1001-TOOL |

| Dust Caps - FF Series | | | |
|-----------------------|-----------|---------------------------|--------------------------|
| | Body Size | Coupler Dust Cap - Rubber | Nipple Dust Cap - Rubber |
| | 1/4 | FR-25 | FR-25 |
| | 3/8 | NR-50 | NR-37 |
| | 1/2 | FR-501 | FR-502 |
| | 3/4 | FR-751 | FR-752 |
| | 1 | FR-1001 | FR-1002 |



Connect Under Pressure Operation

FC Series products operate slightly different from traditional non-spill couplings. With no pressure in the coupler and up to 3000 PSI of trapped pressure in the nipple, begin to couple the mating halves. Delay momentarily during connection to allow trapped pressure to equalize with the mating half before completing the connection.

FC Series nipples provide a connect-under-pressure option for trapped pressures up to 3000 psi on the nipple side.

Features:

- Connect-under-pressure nipple
- Flush, non-spill valving
- Hardened locking surface
- Blow-out resistant seal
- Protective zinc plating with clear trivalent chromate finish

Applications include:

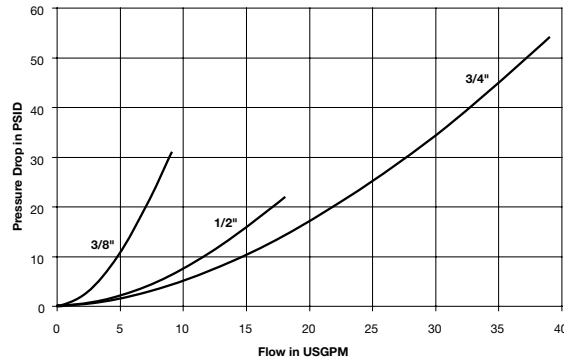
- Hydraulic tools

FC Series Specifications

| Body Size | Rated Pressure (psi) | Rated Connect-Under-Pressure Capability | Rated Flow (gpm) | Spillage (ml) max. per disconnect | Air Inclusion (ml) max. per connect |
|-----------|----------------------|---|------------------|-----------------------------------|-------------------------------------|
| 3/8 | 3000 | 3000 | 6 | .015 | .020 |
| 1/2 | 3000 | 3000 | 12 | .020 | .070 |
| 3/4 | 3000 | 1500 | 26 | .150 | .100 |

Performance

FC Series (3/8", 1/2", 3/4")
 Test Fluid: Oil - 200 SUS



FC Series Connect Under Pressure Nipples



| Body Size | Part Number | Mating Half | Port End | Length | Exposed Length* | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------|-------------|---------------|--------|-----------------|------------------|--------------|---------------|
| 3/8 | FC-372-6FP | FF-371 | 3/8-18 NPSF | 3.30 | 2.58 | 1.16 | 1.062 | 0.45 |
| 3/8 | FC-372-8FO | FF-371 | 3/4-16 UNF | 3.30 | 2.58 | 1.16 | 1.062 | 0.42 |
| 3/8 | FC-372-8FP | FF-371 | 1/2-14 NPSF | 3.30 | 2.58 | 1.16 | 1.062 | 0.42 |
| 1/2 | FC-502-8FP | FF-501 | 1/2-14 NPSF | 3.46 | 2.65 | 1.22 | 1.125 | 0.53 |
| 1/2 | FC-502-10FO | FF-501 | 7/8-14 UNF | 3.46 | 2.65 | 1.22 | 1.125 | 0.52 |
| 3/4 | FC-752-12FO | FF-751 | 1 1/16-12 UNF | 4.81 | 3.72 | 1.65 | 1.500 | 1.32 |
| 3/4 | FC-752-12FP | FF-751 | 3/4-14 NPSF | 4.81 | 3.72 | 1.65 | 1.500 | 1.34 |

Standard Port Configurations: FP - Female Pipe Thread FO - Female Straight Thread

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.



FEM Series couplings meet or exceed ISO 16028 design and performance requirements. The flush valves eliminate spillage and air inclusion when connecting and disconnecting. Coupler and nipple bodies have a modular design with increased flexibility for end port options. FEC nipples provide a connect-under-pressure option for trapped residual pressure.

Features

- Flush, non-spill valving
- Global interchangeability with other ISO 16028 compliant couplings
- Hardened steel sleeves and nipple bodies
- Optional locking sleeve
- Connect-under-pressure FEC nipple option
- Protective zinc plating with clear trivalent chromate finish

Applications include:

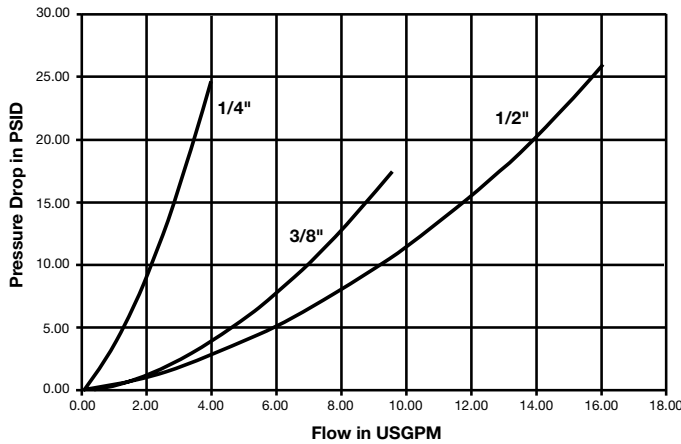
- Skid loader attachments
- Hydraulic tools

Materials of Construction

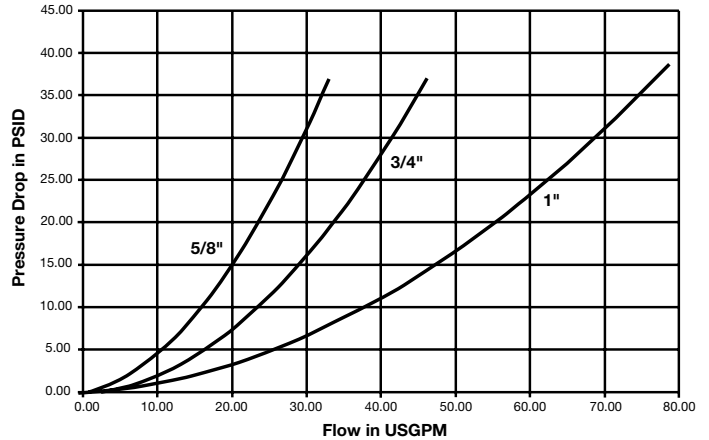
- Body:** Steel
Finish: Zinc with clear trivalent chromate
Valve: Flush face valving
Seal: Polyurethane and Nitrile

Performance

FEM Series (1/4", 3/8" & 1/2")
 Test Fluid: Oil - 150 SUS



FEM Series (5/8", 3/4" & 1")
 Test Fluid: Oil - 150 SUS



| FEM Series Specifications | | | | | | | | |
|---------------------------|----------------------|------------------|-------------------|-----------------------------------|-------------------------------------|---------------|-----------------|--------------------------|
| Body Size | Rated Pressure (psi) | Rated Flow (gpm) | Temperature Range | Spillage (ml) max. per disconnect | Air Inclusion (ml) max. per connect | Body Material | Sleeve Type | Seal Material |
| 1/4 | 4568 | 3 | -22° to +212°F | .015 | .020 | Steel | Push to Connect | Polyurethane and Nitrile |
| 3/8 | 3625 | 6 | | .015 | .020 | | | |
| 1/2 | 3625 | 12 | | .020 | .070 | | | |
| 5/8 | 3625 | 20 | | .030 | .070 | | | |
| 3/4 | 3625 | 26 | | .150 | .100 | | | |
| 1 | 2900 | 50 | | .200 | .150 | | | |



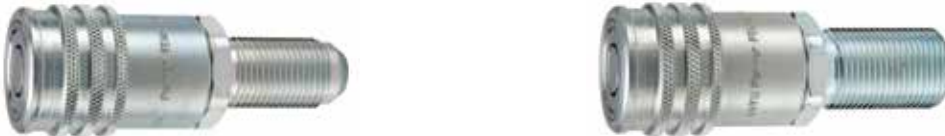
B Hydraulics

FEM Series Couplers



| Body Size | Coupler Part Number | Port End | Length | Coupled Length (when connected to corresponding nipple) | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|---------------|--------|--|------------------|--------------|---------------|
| 1/4 | FEM-251-4FP-NL | 1/4-18 NPSF | 1.96 | 3.98 | 1.16 | 27mm | 0.52 |
| 1/4 | FEM-251-6FO-NL | 9/16-18 UNF | 2.08 | 4.06 | 1.16 | 27mm | 0.51 |
| 3/8 | FEM-371-6FP-NL | 3/8-18 NPSF | 2.89 | 4.43 | 1.26 | 30mm | 0.68 |
| 3/8 | FEM-371-8FO-NL | 3/4-16 UNF | 2.89 | 4.67 | 1.26 | 30mm | 0.68 |
| 1/2 | FEM-501-8FP-NL | 1/2-14 NPSF | 2.96 | 5.09 | 1.54 | 1.25 | 0.93 |
| 1/2 | FEM-501-8FO-NL | 3/4-16 UNF | 2.96 | 5.09 | 1.54 | 1.25 | 0.93 |
| 1/2 | FEM-501-10FO-NL | 7/8-14 UNF | 2.96 | 5.09 | 1.54 | 1.25 | 0.93 |
| 1/2 | FEM-501-12FO-NL | 1 1/16-12 UNF | 3.21 | 5.59 | 1.54 | 1.25 | 0.93 |
| 5/8 | FEM-621-12FO-NL | 1 1/16-12 UNF | 3.70 | 5.64 | 1.69 | 40mm | 1.34 |
| 3/4 | FEM-751-12FP-NL | 3/4-14 NPSF | 3.95 | 6.00 | 1.97 | 46mm | 1.98 |
| 3/4 | FEM-751-12FO-NL | 1 1/16-12 UNF | 3.95 | 6.20 | 1.97 | 46mm | 2.00 |
| 1 | FEM-1001-16FP-NL | 1-11 1/2-NPSF | 4.21 | 6.79 | 2.36 | 55mm | 3.08 |
| 1 | FEM-1001-16FO-NL | 1 5/16-12 UNF | 4.21 | 6.79 | 2.36 | 55mm | 3.03 |

FEM Series Couplers (Bulkhead)



| Body Size | Coupler Part Number | Port End | Length | Coupled Length (when connected to corresponding nipple) | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|------------|--------|--|------------------|--------------|---------------|
| 1/2 | FEM-501-10BMF-NL | 7/8-14 UNF | 4.04 | 7.24 | 1.54 | 1.25 | 1.13 |
| 1/2 | FEM-501-10BMS-NL | 1-14 UNS | 4.04 | 7.24 | 1.54 | 1.25 | 1.13 |

| Code | Description | Part Number Example |
|-------------------|--|---------------------|
| suffix -E5 | Ethylene Propylene seal material (EPR) | FEM-501-8FP-NL-E5 |
| suffix -E4 | Fluorocarbon seal material | FEM-501-8FP-NL-E4 |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



FEM Series Nipples



| Body Size | Nipple Part Number | Port End | Length | Coupled Length (when connected to corresponding coupler) | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|---------------|--------|---|------------------|--------------|---------------|
| 1/4 | FEM-252-4FP | 1/4-18 NPSF | 1.71 | 3.98 | 0.96 | 22mm | 0.20 |
| 1/4 | FEM-252-6FO | 9/16-18 NPSF | 1.95 | 4.06 | 0.96 | 22mm | 0.19 |
| 3/8 | FEM-372-6FP | 3/8-18 NPSF | 2.48 | 4.43 | 1.26 | 30mm | 0.40 |
| 3/8 | FEM-372-8FO | 3/4-16 UNF | 2.48 | 4.67 | 1.26 | 30mm | 0.41 |
| 1/2 | FEM-502-8FP | 1/2-14 NPSF | 2.77 | 5.09 | 1.38 | 1.25 | 0.54 |
| 1/2 | FEM-502-8FO | 3/4-16 UNF | 2.77 | 5.09 | 1.38 | 1.25 | 0.54 |
| 1/2 | FEM-502-10FO | 7/8-14 UNF | 2.77 | 5.09 | 1.38 | 1.25 | 0.54 |
| 1/2 | FEM-502-12FO | 1 1/16-12 UN | 3.02 | 5.59 | 1.38 | 1.25 | 0.54 |
| 5/8 | FEM-622-12FO | 1 1/16-12 UN | 3.09 | 5.64 | 1.57 | 36mm | 0.72 |
| 3/4 | FEM-752-12FP | 3/4-14 NPSF | 3.38 | 6.00 | 1.97 | 46mm | 1.17 |
| 3/4 | FEM-752-12FO | 1-1/16 12 UN | 3.38 | 6.20 | 1.974 | 46mm | 1.20 |
| 1 | FEM-1002-16FP | 1-11 1/2 NPSF | 3.85 | 6.79 | 2.36 | 55mm | 1.94 |
| 1 | FEM-1002-16FO | 1-5/16 12 UN | 3.85 | 6.79 | 2.36 | 55mm | 1.90 |

FEM Series Nipples (Bulkhead)



| Body Size | Nipple Part Number | Port End | Length | Coupled Length (when connected to corresponding nipple) | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|------------|--------|--|------------------|--------------|---------------|
| 1/2 | FEM-502-10BMF | 7/8-14 UNF | 3.85 | 7.24 | 1.38 | 1.25 | .84 |
| 1/2 | FEM-502-10BMS | 1-14 UNS | 3.85 | 7.24 | 1.38 | 1.25 | .84 |

Standard Port Configurations: **FP** - Female Pipe Thread **FO** - Female Straight Thread **BMF** - Bulkhead Flare **BMS** - Bulkhead Face Seal

Other Fitting Port Configurations available upon request.

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.

Dust Caps - FEM Series



| Body Size | Nipple Dust Cap | Coupler Dust Cap | Material |
|-----------|-----------------|------------------|----------|
| 1/4 | CFE-252-PN | PFE-251-PN | PVC |
| 3/8 | CFE-372-PN | PFE-371-PN | PVC |
| 1/2 | CFE-502-PN | PFE-501-PN | PVC |
| 5/8 | CFE-622-PN | PFE-621-PN | PVC |
| 3/4 | CFE-752-PN | PFE-751-PN | PVC |
| 1 | CFE-1002-PN | PFE-1001-PN | PVC |



Applications

Parker FEC Series nipple provide connect-under-pressure capability with up to 3000 PSI of trapped pressure in the nipple and are ideal for applications where residual pressure makes reconnect difficult. Utilized primarily in the construction equipment market, FEC Series products are commonly found on hydraulic attachments used in skid steer applications. The FEC Series mates with the FEM Series interface ISO 16028 couplers.

Features:

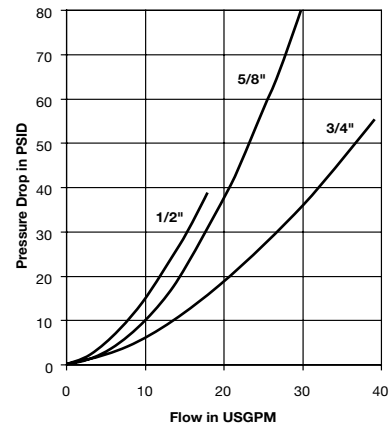
- Connect-Under-Pressure nipple
- Hardened locking surface
- Steel construction, Chromium-6 Free plating for corrosion resistance
- Anti blowout bonded nipple seal
- Flush face valving

Connect Under Pressure Operation

FEC Series products operate slightly different from traditional non-spill couplings. With no pressure in the coupler and up to 3000 PSI of trapped pressure in the nipple, begin to couple the mating halves. Delay momentarily during connection to allow trapped pressure to equalize with the mating half before completing the connection.

Performance

FEC Series (1/2", 5/8", 3/4")
 Test Fluid: Oil - 200 SUS



FEC Series Specifications

| Body Size | Rate Pressure (psi) | Rated Connect-Under-Pressure Capability | Rated Flow (gpm) | Spillage (ml) max. per disconnect | Air Inclusion (ml) max. per connect |
|-----------|---------------------|---|------------------|-----------------------------------|-------------------------------------|
| 1/2 | 3625 | 3000 | 12 | .020 | .070 |
| 5/8 | 3625 | 1700 | 20 | .003 | .070 |
| 3/4 | 3625 | 1500 | 26 | .150 | .100 |

FEC Series Connect Under Pressure Nipples



| Body Size | Part Number | Mating Half | Port End | Length | Coupled Length (when connected to corresponding nipple) | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------|-------------|---------------|--------|---|------------------|--------------|---------------|
| 1/2 | FEC-502-8FP | FEM-501 | 1/2-14 NPSF | 3.50 | 5.82 | 1.22 | 1.125 | - |
| 1/2 | FEC-502-10FO | FEM-501 | 7/8-14 UNF | 3.50 | 5.82 | 1.22 | 1.125 | - |
| 1/2 | FEC-502-12FO | FEM-501 | 1 1/16-12 UNF | 3.79 | 6.36 | 1.65 | 1.500 | - |
| 5/8 | FEC-622-12FO | FEM-621 | 1 1/16-12 UN | 3.39 | 5.94 | 1.65 | 1.500 | - |
| 3/4 | FEC-752-12FO | FEM-751 | 1 1/16-12 UN | 3.76 | 6.58 | 1.65 | 1.500 | - |

Standard Port Configurations: FP - Female Pipe Thread FO - Female Straight Thread

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.



FH Series high pressure, non-spill couplings have flush valves and are designed to minimize spillage and air inclusion when connecting or disconnecting. Couplers and nipples are steel with nitrile seals. Available in 3/8 inch size only, with red finish for easy identification. Will not connect with lower pressure flush face couplings.

Features:

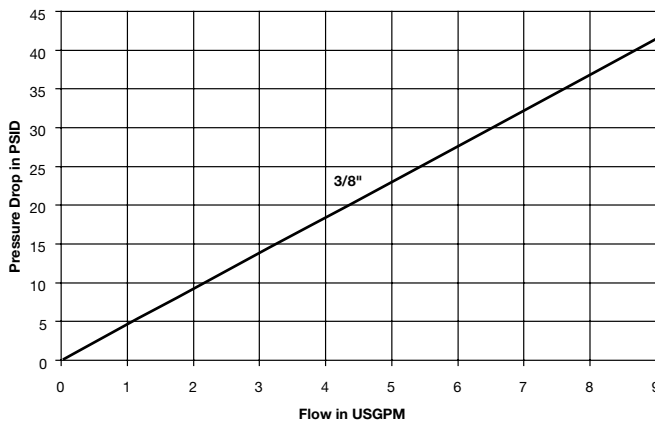
- Rated pressure up to 10,000 psi
- Push to connect operation
- Red finish on nipple body and coupler sleeve
- Standard sleeve lock guards against accidental disconnection
- Not interchangeable with lower pressure flush face couplings
- Standard end configurations include female pipe, male pipe, and BSPP threads
- Alternative seal materials available

Applications:

- Hydraulic crimpers, cutters, benders, clamps, wedges
- Rescue equipment
- High pressure test equipment

Performance

FH Series (3/8")
 Test Fluid: Oil - 200 SUS



Specifications

| | |
|--|-----------------|
| Body Size | 3/8 |
| Rated Pressure (PSI) | 10,000 |
| Rated Flow (GPM) | 6 |
| Temperature Range | -40° to +250° F |
| Spillage (ML) (max. per disconnect) | .020 |
| Air Inclusion (ML) (max. per connect) | .070 |

Materials of Construction

| | |
|---------------|--|
| Body | Steel |
| Finish | Chromium-6 Free plating |
| Valve | Flush Face Valves |
| Seal | Anti blow-out Nitrile/PTFE bonded seal (nipple only) |

Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|------------|--|---------------------|
| suffix -E5 | Ethylene Propylene seal material (EPR) | FH-371-6FP-E5 |
| suffix -E4 | Fluorocarbon seal material | FH-371-6FP-E4 |

Optional seals include O-ring & Back-Up Ring, not Anti-Blow Out bonded seal. Contact QCD for availability and additional options. To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



Couplers



| Body Size | Part Number Steel | Thread Size | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------------|--------------|--------|------------------|--------------|---------------|
| 3/8 | FH-371-6FP | 3/8 -18 NPTF | 2.63 | 1.23 | 1.12 | 0.44 |
| 3/8 | FH-371-6MP | 3/8 -18 NPTF | 2.85 | 1.23 | 1.12 | 0.45 |
| 3/8 | FH-371-6FB | G3/8 -BSPP | 2.63 | 1.23 | 1.12 | 0.45 |

Nipples



| Body Size | Part Number Steel | Thread Size | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------------|-------------|--------|------------------|--------------|---------------|
| 3/8 | FH-372-6FP | 3/8-18 NPTF | 2.12 | 1.23 | 1.00 | 0.26 |
| 3/8 | FH-372-6FB | G3/8 -BSPP | 2.12 | 1.23 | 1.00 | 0.28 |

Standard Port Configurations: **FP** - Female Pipe Thread **MP** - Male Pipe Thread **FB** - Female British Parallel Pipe

FH Series Dust Caps



| Body Size | Coupler Dust Cap - Rubber | Nipple Dust Cap - Rubber |
|-----------|---------------------------|--------------------------|
| 3/8 | NR-50 | NR-37 |



FS Series dry disconnect couplings are ideal for closed system transfer and dispensing of chemicals and other fluids. The flush valves eliminate spillage and air inclusion when connecting and disconnecting to result in minimal environmental contamination.

Features:

- Flush, non-spill valves enable ease of cleaning
- 316 stainless steel material for chemical compatibility
- Push to connect operation
- Fluorocarbon standard seal material with options available

Applications include:

- Chemical dispensing systems
- Chemical processing
- Food processing
- Corrosive media transfer

Materials of Construction

- Machined Parts:** Stainless Steel, AISI type 316
Springs: Stainless Steel, AISI type 316.
Locking Balls: 1/4 - 3/8": 302 SS;
 1/2 - 3/4": 316 SS
 1": 440 SS
Backup Washers: PTFE
Elastomer Seals: Fluorocarbon is standard.
 Wide range is available.

| Specifications | | | | | |
|----------------|----------------------|------------------|-----------------------------------|-------------------------------------|------|
| Body Size | Rated Pressure (psi) | Rated Flow (gpm) | Spillage (ml) max. per disconnect | Air Inclusion (ml) max. per connect | CV |
| 1/4 | 2000 | 3 | .015 | .010 | 0.90 |
| 3/8 | 2000 | 6 | .015 | .020 | 1.80 |
| 1/2 | 2000 | 12 | .020 | .070 | 3.00 |
| 3/4 | 2000 | 28 | .150 | .100 | 7.00 |
| 1 | 2000 | 50 | .250 | .182 | 10.1 |

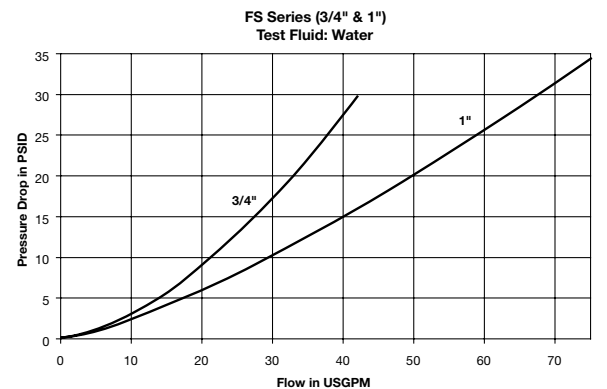
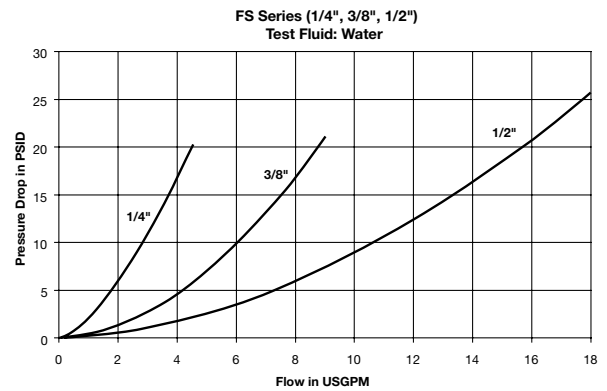
| Temperature Range (continuous) | | |
|--------------------------------|----------------------------------|----------------|
| Part No. Seal Suffix | Seal Compound | Temp° F Rating |
| None* | Fluorocarbon | -15 to 400 |
| E5 | Ethylene Propylene (EPR) | -65 to 300 |
| E1 | Nitrile | -40 to 250 |
| E35 | Perfluoroelastomer (Contact QCD) | -20 to 600 |

*Fluorocarbon is standard seal.
 Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.

Optional Seal Materials:

| Code | Description | Part Number Example |
|-------------|--|---------------------|
| suffix -E5 | Ethylene Propylene seal material- EPR) | FS-371-6FP-E5 |
| suffix -E12 | Neoprene seal material | FS-371-6FP-E12 |

Performance Flow Data





FS Series Couplers - Female Thread



| Body Size | Coupler Part Number | Port End | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|---------------|--------|------------------|--------------|---------------|
| 1/4 | FS-251-4FP | 1/4-18 NPT | 1.79 | 1.06 | 1.00 | 0.25 |
| 1/4 | FS-251-4MP | 1/4-18 NPTF | 2.00 | 1.06 | 1.00 | 0.25 |
| 1/4 | FS-251-6FO | 9/16-18UNF | 1.92 | 1.06 | 1.00 | 0.24 |
| 3/8 | FS-371-6FP | 3/8-18 NPT | 2.52 | 1.30 | 1.06 | 0.58 |
| 3/8 | FS-371-8FO | 3/4-16 UNF | 2.83 | 1.30 | 1.06 | 0.63 |
| 1/2 | FS-501-8FP | 1/2-14 NPT | 2.74 | 1.58 | 1.38 | 0.92 |
| 1/2 | FS-501-10FO | 7/8-14 UNF | 2.86 | 1.58 | 1.38 | 0.96 |
| 3/4 | FS-751-12FP | 3/4-14 NPT | 3.63 | 1.99 | 1.75 | 2.00 |
| 3/4 | FS-751-12FO | 1-1/16-12 UNF | 3.73 | 1.99 | 1.75 | 2.04 |
| 1 | FS-1001-16FP | 1-11 1/2 NPT | 4.14 | 2.25 | 1.87 | 2.76 |
| 1 | FS-1001-16FO | 1-5/16-12 UNF | 4.24 | 2.25 | 1.87 | 2.80 |

FS Series Nipples - Female Thread



| Body Size | Coupler Part Number | Port End | Overall Length | Exposed Length* | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|---------------|----------------|-----------------|------------------|--------------|---------------|
| 1/4 | FS-252-4FP | 1/4-18 NPT | 1.66 | 1.14 | 1.06 | 1.00 | 0.18 |
| 1/4 | FS-252-4MP | 1/4-18 NPTF | 1.87 | 1.34 | 1.06 | 1.00 | 0.18 |
| 1/4 | FS-252-6FO | 9/16-18 UNF | 1.78 | 1.26 | 1.06 | 1.00 | 0.17 |
| 3/8 | FS-372-6FP | 3/8-18 NPT | 2.31 | 1.71 | 1.08 | 0.94 | 0.26 |
| 3/8 | FS-372-8FO | 3/4-16 UNF | 2.45 | 1.71 | 1.19 | 1.06 | 0.30 |
| 1/2 | FS-502-8FP | 1/2-14 NPT | 2.75 | 2.03 | 1.30 | 1.12 | 0.44 |
| 1/2 | FS-502-10FO | 7/8-14 UNF | 2.85 | 2.11 | 1.30 | 1.12 | 0.48 |
| 3/4 | FS-752-12FP | 3/4-14 NPT | 3.38 | 2.37 | 1.65 | 1.50 | 1.02 |
| 3/4 | FS-752-12FO | 1-1/16-12 UNF | 3.38 | 2.37 | 1.65 | 1.50 | 1.02 |
| 1 | FS-1002-16FP | 1-11 1/2 NPT | 3.89 | 2.60 | 2.17 | 1.87 | 1.60 |
| 1 | FS-1002-16FO | 1-5/16 12 UNF | 3.89 | 2.51 | 2.17 | 1.87 | 1.64 |

Standard Port Configurations: FP - Female Pipe Thread MP - Male Pipe Thread FO - Female Straight Thread

* This dimension represents the portion of the nipple that is exposed when the nipple and coupler are connected.

Dust Caps - FS Series



| Body Size | Coupler Dust Cap - Rubber | Nipple Dust Cap - Rubber |
|-----------|---------------------------|--------------------------|
| 1/4 | FR-25 | FR-25 |
| 3/8 | NR-50 | NR-37 |
| 1/2 | FR-501 | FR-502 |
| 3/4 | FR-751 | FR-752 |
| 1 | FR-1001 | FR-1002 |



FS Series Repair Kits

Repair kits are available for both coupler and nipple half of FS coupling. Kits include replacement elastomer seals, valve assembly and instructions to perform rebuild. Spline tool must be ordered separately to accomplish coupler half repair. Other tools required: Vise, Allen Wrench and Open End Wrench.

| FS Repair Kits | | |
|--|--------------------------|--|
| TOOL Spline tool for Coupler Repair | Replacement Seals | |
| | No Suffix | Fluorocarbon Seals |
| | E5 | Ethylene Propylene (EPR) |
| | E35 | Perfluoroelastomer (Contact Factory for Seal Options). |

| Nipple Repair Kits | | |
|--------------------|-------------|----------------|
| 1/4 | FS-252-KIT | FS-252-KIT-E5 |
| 3/8 | FS-372-KIT | FS-372-KIT-E5 |
| 1/2 | FS-502-KIT | FS-502-KIT-E5 |
| 3/4 | FS-752-KIT | FS-752-KIT-E5 |
| 1 | FS-1002-KIT | FS-1002-KIT-E5 |

| Coupler Repair Kits | | | Spline Tool |
|---------------------|-------------|----------------|----------------|
| 1/4 | N/A | N/A | N/A |
| 3/8 | FS-371-KIT | FS-371-E5 | FF/FS-371-TOOL |
| 1/2 | FS-501-KIT | FS-501-KIT-E5 | FS-501-TOOL |
| 3/4 | FS-751-KIT | FS-751-KIT-E5 | FF/FS-751-TOOL |
| 1 | FS-1001-KIT | FS-1001-KIT-E5 | FF/FS-751-TOOL |



FET Series couplings are built to be used in high pressure, high impulse applications that require the security of a threaded connection and the ability to connect and disconnect under residual pressure. Interchanges with similar European style thread-to-connect couplings.

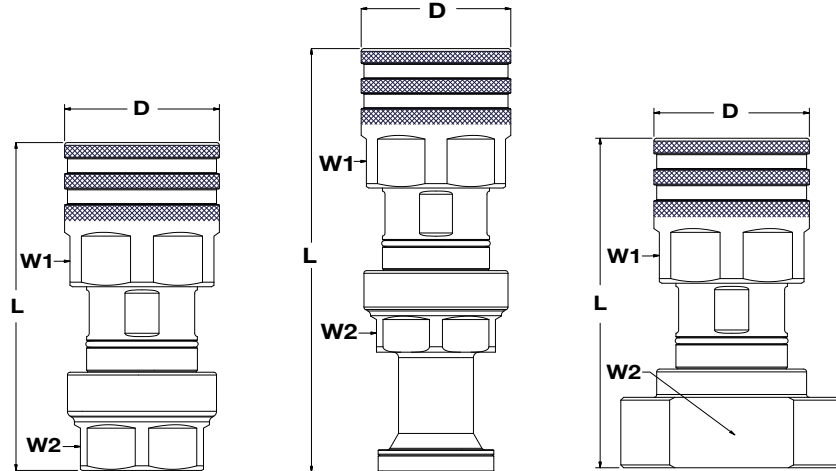
Features:

- Connect under residual pressure up to 5000 psi
- Disconnect under residual pressure up to 2500 psi
- High impulse resistance
- High strength materials
- FNC coating for extended durability and corrosion resistance
- Visual connection indicator

Applications include:

- Mobile drill rigs
- Oil field equipment
- Umbilical lines
- High impulse mobile circuits
- Excavator attachments

| FET Series Specifications | | | | | | | |
|---------------------------|-----------|---------------------|----------------------|-------------------|---------------|-------------------|----------------------|
| Body Size (inch) | Euro Size | Port End | Rated Pressure (psi) | Temperature Range | Body Material | Sleeve Type | Seal Material |
| 3/8 | 9 | Female ORB | 6000 | -40° to +250°F | Steel | Thread to Connect | Nitrile/Polyurethane |
| | | Female NPTF | 6000 | | | | |
| 1/2 | 13 | Female ORB | 6000 | | | | |
| | | Female NPTF | 6000 | | | | |
| 5/8 | 15 | Female ORB | 5000 | | | | |
| | | Female NPTF | 5000 | | | | |
| 3/4 | 17 | Female ORB | 5000 | | | | |
| | | Female NPTF | 5000 | | | | |
| | | Code 62 Flange Head | 6000 | | | | |
| | | Code 62 Flange Pad | 6000 | | | | |
| 1 | 21 | Female ORB | 3000 | | | | |
| | | Female NPTF | 5000 | | | | |
| | | Code 62 Flange Head | 6000 | | | | |
| | | Code 62 Flange Pad | 6000 | | | | |
| 1-1/2 | 30 | Female ORB | 2500 | | | | |
| | | Female NPTF | 3000 | | | | |
| | | Code 62 Flange Head | 5000 | | | | |
| | | Code 62 Flange Pad | 5000 | | | | |



B Hydraulics

FET Series Couplers



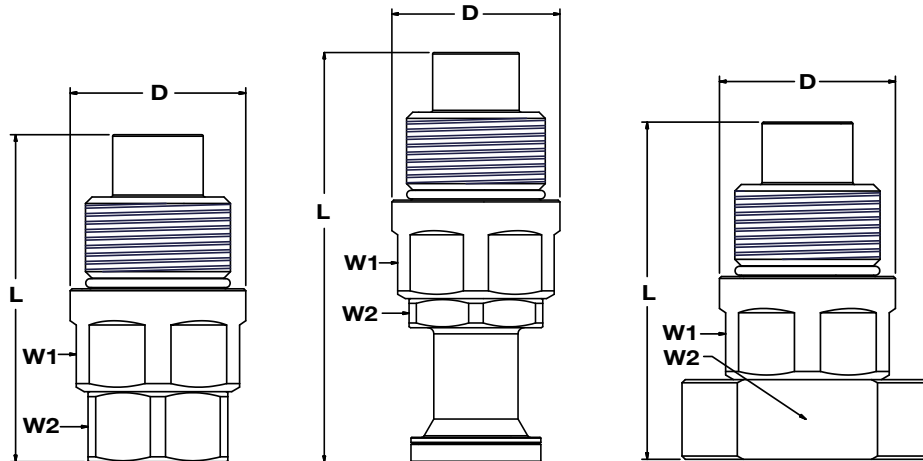
| Body Size | Coupler Part Number | Port End | Length (in) | Largest Diameter (in) | Wrench Flats W1 | Wrench Flats W2 | Weight (lbs.) |
|-----------|---------------------|--------------------|-------------|-----------------------|-----------------|-----------------|---------------|
| 3/8 | FET-371-8FO | 3/4 -16 UNF | 3.83 | 1.65 | 38 mm | 30 mm | 0.91 |
| 3/8 | FET-371-8FP | 1/2 -14 NPTF | 3.91 | 1.65 | 38 mm | 30 mm | 0.92 |
| 1/2 | FET-501-10FO | 7/8 -14 UNF | 3.82 | 2.05 | 48 mm | 1-1/2 in | 1.40 |
| 1/2 | FET-501-8FP | 1/2 -14 NPTF | 3.70 | 2.05 | 48 mm | 1-1/2 in | 1.38 |
| 5/8 | FET-621-12FO | 1 1/16 -12 UNF | 4.66 | 2.12 | 50 mm | 1-5/8 in | 2.06 |
| 5/8 | FET-621-12FP | 3/4 -14 NPTF | 4.52 | 2.12 | 50 mm | 1-5/8 in | 2.03 |
| 3/4 | FET-751-16FO | 1 5/16 -12 UNF | 5.44 | 2.31 | 55 mm | 2 in | 3.30 |
| 3/4 | FET-751-16FP | 1 - 11 1/2 NPTF | 5.44 | 2.31 | 55 mm | 2 in | 3.35 |
| 1 | FET-1001-20FO | 1 5/8 - 12 UNF | 5.83 | 2.75 | 65 mm | 2-3/16 in | 4.72 |
| 1 | FET-1001-20FP | 1 1/4 -11 1/2 NPTF | 5.83 | 2.75 | 65 mm | 2-3/16 in | 4.76 |
| 1-1/2 | FET-1501-24FO | 1 7/8 - 12 UNF | 7.08 | 3.75 | 85 mm | 2-5/8 in | 10.01 |
| 1-1/2 | FET-1501-24FP | 1 1/2 -11 1/2 NPTF | 7.08 | 3.75 | 85 mm | 2-5/8 in | 10.06 |

FET Series Couplers - Code 62 Flange



| Body Size | Coupler Part Number | Port End | Bolt Thread Size | Length (in) | Largest Diameter (in) | Wrench Flats W1 (mm) | Wrench Flats W2 (in) | Weight (lbs.) |
|-----------|---------------------|-------------|------------------|-------------|-----------------------|----------------------|----------------------|---------------|
| 3/4 | FET-751-16SF | Flange Head | - | 7.60 | 2.31 | 55 | 2 | 4.17 |
| 3/4 | FET-751-16SFP | Flange Pad | 7/16 - 14 UNC | 5.45 | 2.31 | 55 | 2-3/4 | 4.82 |
| 1 | FET-1001-20SF | Flange Head | - | 7.78 | 2.75 | 65 | 2-3/16 | 5.44 |
| 1 | FET-1001-20SFP | Flange Pad | 1/2 - 13 UNC | 5.83 | 2.75 | 65 | 3 | 6.90 |
| 1-1/2 | FET-1501-24SF | Flange Head | - | 9.83 | 3.75 | 85 | 2-5/8 | 11.37 |
| 1-1/2 | FET-1501-24SFP | Flange Pad | 5/8 - 11 UNC | 6.82 | 3.75 | 85 | 2-5/8 | 13.31 |





FET Series Nipples



| Body Size | Nipple Part Number | Port End | Length (in) | Largest Diameter (in) | Wrench Flats W1 | Wrench Flats W2 | Weight (lbs.) |
|-----------|--------------------|--------------------|-------------|-----------------------|-----------------|-----------------|---------------|
| 3/8 | FET-372-8FO | 3/4 -16 UNF | 3.51 | 1.60 | 38 mm | 1-1/4 in | 0.99 |
| 3/8 | FET-372-8FP | 1/2 -14 NPTF | 3.51 | 1.60 | 38 mm | 1-1/4 in | 0.99 |
| 1/2 | FET-502-10FO | 7/8 -14 UNF | 3.70 | 1.88 | 44 mm | 1-1/8 in | 1.14 |
| 1/2 | FET-502-8FP | 1/2 -14 NPTF | 3.50 | 1.88 | 44 mm | 1-1/8 in | 1.13 |
| 5/8 | FET-622-12FO | 1 1/16 -12 UNF | 4.21 | 2.12 | 50 mm | 1-5/8 in | 2.05 |
| 5/8 | FET-622-12FP | 3/4 -14 NPTF | 4.08 | 2.12 | 50 mm | 1-5/8 in | 2.02 |
| 3/4 | FET-752-16FO | 1 5/16 -12 UNF | 4.72 | 2.31 | 55 mm | 2 in | 2.76 |
| 3/4 | FET-752-16FP | 1 - 11 1/2 NPTF | 4.65 | 2.31 | 55 mm | 2 in | 2.72 |
| 1 | FET-1002-20FO | 1 5/8 - 12 UNF | 5.12 | 2.75 | 65 mm | 2-3/16 in | 4.31 |
| 1 | FET-1002-20FP | 1 1/4 -11 1/2 NPTF | 5.12 | 2.75 | 65 mm | 2-3/16 in | 4.35 |
| 1-1/2 | FET-1502-24FO | 1 7/8 - 12 UNF | 5.94 | 3.75 | 75 mm | 2-5/8 in | 7.94 |
| 1-1/2 | FET-1502-24FP | 1 1/2 -11 1/2 NPTF | 5.94 | 3.75 | 75 mm | 2-5/8 in | 8.00 |

FET Series Nipples - Code 62 Flange



| Body Size | Nipple Part Number | Port End | Bolt Thread Size | Length (in) | Largest Diameter (in) | Wrench Flats W1 (mm) | Wrench Flats W2 (in) | Weight (lbs.) |
|-----------|--------------------|-------------|------------------|-------------|-----------------------|----------------------|----------------------|---------------|
| 3/4 | FET-752-16SF | Flange Head | - | 6.32 | 2.31 | 55 | 2 | 3.10 |
| 3/4 | FET-752-16SFP | Flange Pad | 7/16 - 14 UNC | 4.74 | 2.31 | 55 | 2-3/4 | 4.33 |
| 1 | FET-1002-20SF | Flange Head | - | 6.70 | 2.75 | 65 | 2-3/16 | 4.71 |
| 1 | FET-1002-20SFP | Flange Pad | 1/2 - 13 UNC | 5.27 | 2.75 | 65 | 3 | 6.78 |
| 1-1/2 | FET-1502-24SF | Flange Head | - | 7.77 | 3.75 | 75 | 2-5/8 | 8.08 |
| 1-1/2 | FET-1502-24SFP | Flange Pad | 5/8 - 11 UNC | 5.94 | 3.75 | 75 | 2-5/8 | 12.17 |



FET Series Dust Caps and Plugs



| Body Size | Nipple Dust Cap | Coupler Dust Plug |
|-----------|-----------------|-------------------|
| 3/8 | FET3DC-01 | FET3DP-01 |
| 1/2 | FET5DC-01 | FET5DP-01 |
| 5/8 | FET6DC-01 | FET6DP-01 |
| 3/4 | FET7DC-01 | FET7DP-01 |
| 1 | FET10DC-01 | FET10DP-01 |
| 1-1/2 | FET15DC-01 | FET15DP-01 |



6100 Series is a thread to connect, low spill coupling that can be connected under pressure. Coupler and nipple bodies are corrosion resistant brass. Couplers are available with a steel hex nut or heavy duty wing nut sleeve. A connection indicator groove on the nipple body indicates when the connection is complete and the valves are fully open.

Features:

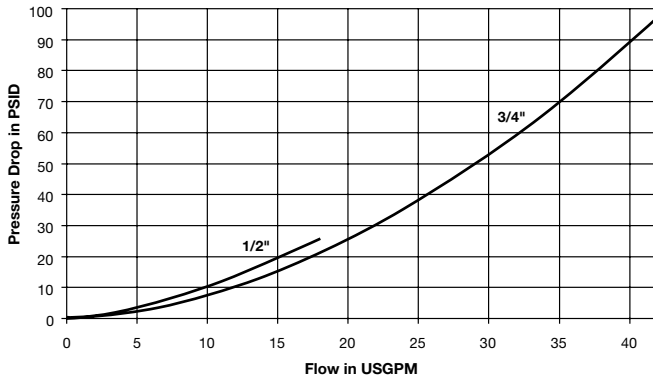
- Rated pressures up to 3000 psi
- Thread to connect operation
- Bonded valve seal stays in place under full pressure connect and disconnect
- Visual connection indicator
- Rugged wing nut sleeve will withstand hammering to tighten or loosen
- Optional flange for secure bulkhead mounting
- Standard end configuration is female pipe thread
- Special part numbers apply for CO2 transfer (contact QCD)

Applications:

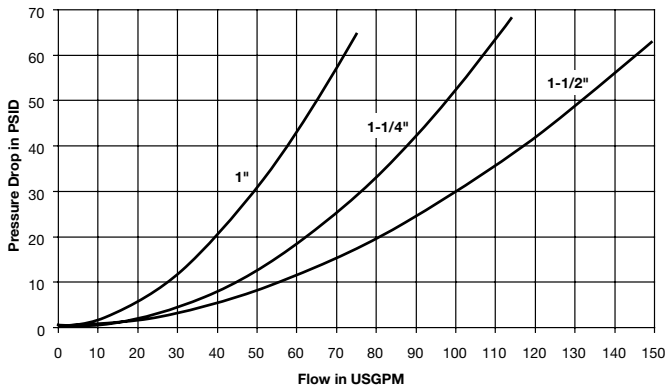
- Submersible pumps
- Oil field equipment
- Dump trailers
- Engine test stands
- Bulk liquid transfer

Performance

6100 Series (1/2" & 3/4")
 Test Fluid: OIL 150 SUS



6100 Series (1", 1-1/4", 1-1/2")
 Test Fluid: OIL 150 SUS



Specifications

| | | | | | |
|--------------------------------------|----------------|-------|-------|---------|---------|
| Body Size | 3/4 | 3/4 | 1 | 1 - 1/4 | 1 - 1/2 |
| Dash Number | -08 | -12 | -16 | -20 | -24 |
| Rated Pressure (psi) * | | | | | |
| Female Half | 3,000 | 3,000 | 3,000 | 2,750 | 2,000 |
| Male Half | 3,000 | 3,000 | 3,000 | 2,500 | 2,500 |
| Complete Coupling Assembly | 3,000 | 3,000 | 3,000 | 2,750 | 2,500 |
| Rated Flow (gpm) | 12 | 28 | 50 | 76 | 100 |
| Temperature Range (std seals) | -40° to +250°F | | | | |

* Not recommended for continuous hydraulic impulse applications at rated pressures.



Coupling Set with Wingnut



| Body Size | Part Number With Flange | Part Number Without Flange | Thread Size | Overall Connected Length | Weight (lbs.) |
|-----------|-------------------------|----------------------------|-------------------|--------------------------|---------------|
| 3/4 | 6100-08 | 6120-08 | 1/2-14 NPTF | 5.20 | 2.12 |
| 3/4 | 6100-12 | 6120-12 | 3/4-14 NPTF | 5.32 | 2.00 |
| 1 | 6100-16 | 6120-16 | 1-11 1/2 NPTF | 5.99 | 3.19 |
| 1 1/4 | 6100-20 | 6120-20 | 1 1/4-11 1/2 NPTF | 6.48 | 4.25 |
| 1 1/2 | 6100-24 | 6120-24 | 1 1/2-11 1/2 NPTF | 6.80 | 6.13 |

Coupling Set with Hex Nut



| Body Size | Part Number With Flange | Part Number Without Flange | Thread Size | Overall Connected Length | Weight (lbs.) |
|-----------|-------------------------|----------------------------|-------------------|--------------------------|---------------|
| 3/4 | 6110-08 | 6130-08 | 1/2-14 NPTF | 5.20 | 1.89 |
| 3/4 | 6110-12 | 6130-12 | 3/4-14 NPTF | 5.20 | 1.83 |
| 1 | 6110-16 | 6130-16 | 1-11 1/2 NPTF | 5.99 | 2.93 |
| 1 1/4 | 6110-20 | 6130-20 | 1 1/4-11 1/2 NPTF | 6.33 | 4.12 |
| 1 1/2 | 6110-24 | 6130-24 | 1 1/2-11 1/2 NPTF | 6.55 | 5.95 |

Dust Caps for Nipples



| Body Size | Dust Cap - Nipples |
|-----------|--------------------|
| 3/4 | 6108-08 |
| 1 | 6108-16 |
| 1 1/4 | 6108-20 |
| 1 1/2 | 6108-24 |

Dust Plugs for Couplers



| Body Size | Dust Plug - Couplers |
|-----------|----------------------|
| 3/4 | 6109-08 |
| 1 | 6109-16 |
| 1 1/4 | 6109-20 |
| 1 1/2 | 6109-24 |

Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|-----------------|---------------------------------------|---------------------|
| suffix W | Ethylene Propylene seal material- EPR | 6135-08W |
| suffix Y | Fluorocarbon seal material | 6135-08Y |
| suffix Z | Neoprene seal material | 6135-08Z |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



Couplers - Wingnut



| Body Size | Part Number Brass | Thread Size | Overall Length | Wrench Flats | Wing Nut | Weight (lbs.) |
|-----------|-------------------|-------------------|----------------|--------------|----------|---------------|
| 3/4 | 6125-08 | 1/2-14 NPTF | 3.22 | 1.16 | 4.06 | 1.30 |
| 3/4 | 6125-12 | 3/4-14 NPTF | 3.22 | 1.16 | 4.06 | 1.26 |
| 1 | 6125-16 | 1-11 1/2 NPTF | 3.87 | 1.43 | 4.38 | 1.96 |
| 1 1/4 | 6125-20 | 1 1/4-11 1/2 NPTF | 4.16 | 1.78 | 5.20 | 2.84 |
| 1 1/2 | 6125-24 | 1 1/2-11 1/2 NPTF | 4.34 | 2.00 | 5.32 | 3.72 |

Couplers - Hex Nut



| Body Size | Part Number Brass | Thread Size | Overall Length | Wrench Flats | Hex Size | Weight (lbs.) |
|-----------|-------------------|-------------------|----------------|--------------|----------|---------------|
| 3/4 | 6135-08 | 1/2-14 NPTF | 3.22 | 1.16 | 1.75 | 1.07 |
| 3/4 | 6135-12 | 3/4-14 NPTF | 3.22 | 1.16 | 1.75 | 1.07 |
| 1 | 6135-16 | 1-11 1/2 NPTF | 3.87 | 1.43 | 2.13 | 1.89 |
| 1 1/4 | 6135-20 | 1 1/4-11 1/2 NPTF | 4.16 | 1.78 | 2.50 | 2.56 |
| 1 1/2 | 6135-24 | 1 1/2-11 1/2 NPTF | 4.34 | 2.00 | 2.75 | 3.15 |

Nipples



| Body Size | Part Number Without Flange Brass | Part Number With Flange Brass | Thread Size | Overall Length | Wrench Flats | Hex Size | Weight (lbs.) |
|-----------|----------------------------------|-------------------------------|-------------------|----------------|--------------|----------|---------------|
| 3/4 | 6105-08 | 6115-08 | 1/2-14 NPTF | 3.11 | 1.18 | 1.62 | 0.75 |
| 3/4 | 6105-12 | 6115-12 | 3/4-14 NPTF | 3.23 | 1.18 | 1.62 | 0.76 |
| 1 | 6105-16 | 6115-16 | 1-11 1/2 NPTF | 3.55 | 1.56 | 1.88 | 1.30 |
| 1 1/4 | 6105-20 | 6115-20 | 1 1/4-11 1/2 NPTF | 3.71 | 1.88 | 2.13 | 1.65 |
| 1 1/2 | 6105-24 | 6115-24 | 1 1/2-11 1/2 NPTF | 4.12 | 2.18 | 2.50 | 2.61 |

Mounting Flanges



| Body Size | Part Number Steel | Bolt Hole Diameter | Bolt Circle Diameter |
|-----------|-------------------|--------------------|----------------------|
| 3/4 | 6107-08 (1 piece) | .208 | 2.13 |
| 1 | 6107-16 (1 piece) | .208 | 2.38 |
| 1 1/4 | 6107-20 (2 piece) | .208 | 2.63 |
| 1 1/2 | 6107-24 (2 piece) | .281 | 3.25 |

B Hydraulics



Parker's 8200 Series unique valve design allows connection while either or both the coupler and nipple are under pressure. Valves in both halves remain closed, opening only when system pressure has been relieved on the female body and then reapplied. This pressure sequence may be done with either an open center or a closed center hydraulic system that has a control valve.

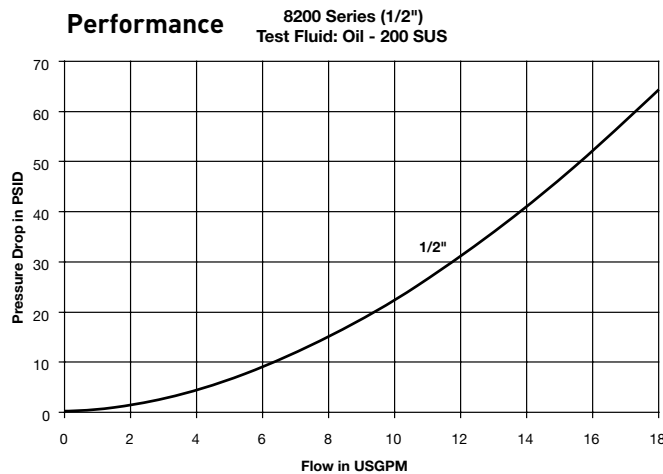
Features:

- Accepts ISO 5675 universal tips
- Connect under system pressure on the coupler side and residual pressure on the nipple side
- Sleeve designed to accommodate bracket mounting
- One-handed push-to-connect operation when coupler is clamp mounted
- 1/2" body size couplers are compatible with 5001-4 and 5006-4 breakaway clamps
- Critical parts are hardened
- Protective zinc plating with clear trivalent chromate finish

Applications include:

- Tractors
- Mid-sized agricultural equipment
- Agricultural attachments requiring breakaway

| 8200 Series Specifications | | | | | | |
|----------------------------|------------|----------------|-------------------|---------------|----------------------|---------------|
| Body Size | Rated Flow | Rated Pressure | Temperature | Body Material | Sleeve Type | Seal Material |
| 1/2 | 12 gpm | 3000 psi | -40° F to +250° F | Steel | Push/pull/break away | Nitrile |



Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|-----------------|--|---------------------|
| suffix W | Ethylene Propylene seal material- EPR (Couplers) | 8250-15W |
| suffix Y | Fluorocarbon seal material (Couplers) | 8250-15Y |
| suffix Z | Neoprene seal material (Couplers) | 8250-15Z |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.





B Hydraulics

8200 Series Couplers - Female Thread



| Body Size | Coupler Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) | Complete Coupling Part Number |
|-----------|---------------------|-------------|------------|--------|------------------|--------------|---------------|-------------------------------|
| 1/2 | 8250-4 | 1/2-14 NPSF | Poppet | 3.29 | 1.50 | 0.87 | 0.63 | 8200-4 |
| 1/2 | 8250-15 | 3/4-16 ORB | Poppet | 3.29 | 1.50 | 0.87 | 0.63 | 8200-15 |
| 1/2 | 8250-16 | 7/8-14 ORB | Poppet | 3.29 | 1.50 | 0.87 | 0.63 | 8200-16 |

8010 Series Nipples - Female Thread



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) | Complete Coupling Part Number |
|-----------|--------------------|-------------|------------|--------|------------------|--------------|---------------|-------------------------------|
| 1/2 | 8010-4 | 1/2-14 NPTF | Ball | 1.95 | 1.23 | 1.06 | 0.20 | 8200-4 |
| 1/2 | 8010-4P | 1/2-14 NPTF | Poppet | 1.95 | 1.23 | 1.06 | 0.20 | - |
| 1/2 | 8010-15 | 3/4 -16 ORB | Ball | 1.95 | 1.23 | 1.06 | 0.20 | 8200-15 |
| 1/2 | 8010-15P | 3/4 -16 ORB | Poppet | 1.95 | 1.23 | 1.06 | 0.20 | - |
| 1/2 | 8010-16 | 7/8 -14 ORB | Ball | 1.95 | 1.23 | 1.06 | 0.25 | 8200-16 |
| 1/2 | 8010-16P | 7/8 -14 ORB | Poppet | 1.95 | 1.23 | 1.06 | 0.25 | - |

8200 Series Replacement Parts

| Body Size | Part Number | Description | Material |
|-----------|----------------|-------------|----------|
| 1/2 | 50005-211-0200 | O-Ring | Nitrile |

8200 Series Dust Caps and Plugs



| Body Size | Dust Plug (Coupler) | Color/Material | Dust Cap (Nipple) | Weight (lbs.) |
|-----------|---------------------|----------------|-------------------|---------------|
| 1/2 | 5205-4M | Black Rubber | 5209-4M | .04 |
| 1/2 | 5005-4 | Steel w/Chain | 5009-4 | .21 |
| 1/2 | 5205-4M-BU | Blue Rubber | 5209-4M-BU | .04 |
| 1/2 | 5205-4M-GR | Green Rubber | 5209-4M-GR | .04 |
| 1/2 | 5205-4M-RE | Red Rubber | 5209-4M-RE | .04 |
| 1/2 | 5205-4M-YE | Yellow Rubber | 5209-4M-YE | .04 |



The 9200 Series coupler allows zero pressure connection and disconnection while either or both the coupler and nipple are under pressure. A lever operated cam locks both coupler and nipple valves in the open or closed position. "Closed", the flow is shut off at the coupler, allowing easy connect and disconnect. Valves in the "Open" position are locked in place and unaffected by hydraulic surges. Valves will automatically close if the coupling is accidentally disconnected.



Features:

- Accepts ISO 5675 universal tips
- Premier connect under pressure coupling
- Locked valves prevent flow checking
- Functionally can replace a double shut-off quick coupling and two high pressure ball valves
- Protective zinc plating with clear trivalent chromate finish

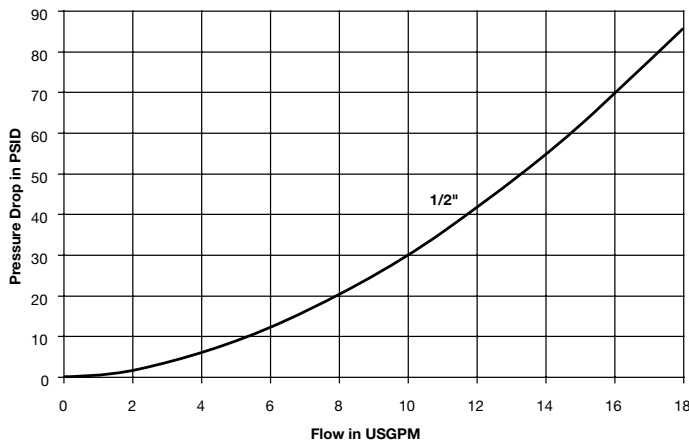
Applications include:

- Mobile equipment
- Industrial hydraulics
- Not recommended for use with gaseous or compressible media

| 9200 Series Specifications: | | | | | | |
|-----------------------------|------------|----------------|-------------------|---------------|---------------------|---------------|
| Body Size | Rated Flow | Rated Pressure | Temperature | Body Material | Sleeve Type | Seal Material |
| 1/2 | 12 gpm | 3000 psi | -40° F to +250° F | Steel | Push/pull/breakaway | Nitrile |

Performance:

9200 Series (1/2")
 Test Fluid: Oil - 200 SUS



Optional Seal Materials:

[add code to part number]

| Code | Description | Part Number Example |
|-----------------|--|---------------------|
| suffix W | Ethylene Propylene seal material- EPR (Couplers) | 9250-4-320W |
| suffix Y | Fluorocarbon seal material (Couplers) | 9250-4-320Y |
| suffix Z | Neoprene seal material (Couplers) | 9250-4-320Z |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



9200 Series Couplers



| Body Size | Coupler Part Number | Port End | Valve Type | Orientation | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|-------------|------------|-------------------------|--------|------------------|--------------|---------------|
| 1/2 | 9250-4-320* | 1/2-14 NPTF | Poppet | Left hand – yellow grip | 5.37 | 1.50 | 1.13 | 1.98 |
| 1/2 | 9250-6-320* | 9/16-18 UNF | Poppet | Left hand – yellow grip | 5.37 | 1.50 | 1.13 | 2.06 |
| 1/2 | 9250-15-320* | 3/4-16 UNF | Poppet | Left hand – yellow grip | 5.37 | 1.50 | 1.13 | 2.06 |
| 1/2 | 9250-16-320* | 7/8-14 UNF | Poppet | Left hand – yellow grip | 5.37 | 1.50 | 1.13 | 2.06 |
| 1/2 | 9250-334** | 9/16-18 UNF | Poppet | Left hand – yellow grip | 5.37 | 1.50 | 1.13 | 2.15 |

* -320 indicates lower sleeve spring force for easier connection when coupler is not mounted in a clamp.
 ** -334 couplers connect with 1/4" ISO 7241-B series nipples.

8010 Series Nipples



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|-------------|------------|--------|------------------|--------------|---------------|
| 1/4 | H2-63-T6* | 9/16-18 ORB | Poppet | 1.54 | 1.01 | 0.88 | 0.10 |
| 1/2 | 8010-4 | 1/2-14 NPTF | Ball | 1.95 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-4P | 1/2-14 NPTF | Poppet | 1.95 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-15 | 3/4-16 ORB | Ball | 1.95 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-15P | 3/4-16 ORB | Poppet | 1.95 | 1.23 | 1.06 | 0.20 |
| 1/2 | 8010-16 | 7/8-14 ORB | Ball | 1.95 | 1.23 | 1.06 | 0.25 |
| 1/2 | 8010-16P | 7/8-14 ORB | Poppet | 1.95 | 1.23 | 1.06 | 0.25 |

* Connects with 9250-334 couplers

9200 Series Replacement Parts

| Body Size | Part Number | Description | Weight (lbs.) |
|-----------|----------------|------------------|---------------|
| 1/2 | 50001-211-0260 | Interface O-Ring | .01 |

9200 Series Dust Caps and Plugs



| Body Size | Coupler Dust Cover | Color/Material | Nipple Dust Cap | Weight (lbs.) |
|-----------|--------------------|----------------|-----------------|---------------|
| 1/2 | 9507-4-1 | Black Rubber | 5209-4M | .04 |



The 5000 Series is an economical coupling that can be connected under pressure where tools can be used to make the connection. The coupler and nipple are connected and then the valves are opened from tightening the threaded union on the back of the coupler body. Unscrewing the body threads will permit the valves to close and the coupler sleeve can be retracted to release the nipple.

Features:

- Accepts ISO 5675 universal tips
- Manual, threaded actuation, connect under pressure coupling
- Protective zinc plating with clear trivalent chromate finish

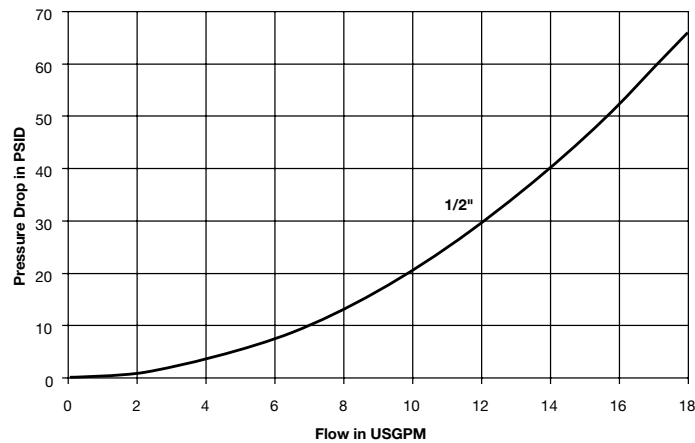
Applications include:

- Lubrication systems
- Hydraulic tools
- Attachments

| 5000 Series Specifications | | | | | | |
|----------------------------|------------|----------------|-------------------|---------------|---------------|---------------|
| Body Size | Rated Flow | Rated Pressure | Temperature | Body Material | Sleeve Type | Seal Material |
| 1/2 | 12 gpm | 2500 psi | -40° F to +250° F | Steel | Single Acting | Nitrile |

Performance:

5000 Series (1/2")
 Test Fluid: Oil - 200 SUS





5000 Series Couplers



| Body Size | Coupler Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) | Complete Coupling Part Number |
|-----------|---------------------|-------------|------------|--------|------------------|--------------|---------------|-------------------------------|
| 1/2 | 5050-4 | 1/2-14 NPTF | Ball | 2.88 | 1.52 | 1.25 | 2.58 | 5000-4 |

8010 Series Nipples



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) | Complete Coupling Part Number |
|-----------|--------------------|-------------|------------|--------|------------------|--------------|---------------|-------------------------------|
| 1/2 | 8010-4 | 1/2-14 NPTF | Ball | 1.95 | 1.23 | 1.06 | 0.20 | 5000-4 |
| 1/2 | 8010-15 | 3/4-16 ORB | Ball | 1.95 | 1.23 | 1.06 | 0.20 | - |
| 1/2 | 8010-16 | 7/8-14 ORB | Ball | 1.95 | 1.23 | 1.06 | 0.25 | - |

5000 Replacement Parts

1/2

| | |
|--------------------------|----------------|
| O-Rings - Nitrile | 50001-211-0260 |
|--------------------------|----------------|

5000 Series Dust Caps and Plugs



| Body Size | Dust Plug (Coupler) | Color/Material | Dust Cap (Nipple) | Weight (lbs.) |
|-----------|---------------------|----------------|-------------------|---------------|
| 1/2 | 5205-4M | Black Rubber | 5209-4M | .04 |
| 1/2 | 5205-4M-BU | Blue Rubber | 5209-4M-BU | .04 |
| 1/2 | 5205-4M-GR | Green Rubber | 5209-4M-GR | .04 |
| 1/2 | 5205-4M-RE | Red Rubber | 5209-4M-RE | .04 |
| 1/2 | 5205-4M-YE | Yellow Rubber | 5205-4M-YE | .04 |
| 1/2 | 5005-4 | Steel w/Chain | 5009-4 | .21 |

Optional Seal Materials:

(add code to part number)

| Code | Description | Part Number Example |
|-----------------|--|---------------------|
| suffix W | Ethylene Propylene seal material- EPR (Couplers) | 5050-4W |
| suffix Y | Fluorocarbon seal material (Couplers) | 5050-4Y |
| suffix Z | Neoprene seal material (Couplers) | 5050-4Z |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



The rugged 75 Series is designed and constructed for high pressure hydraulic service. Although these couplings are used in a broad variety of heavy duty applications, a primary usage is in oil fields and offshore drilling. Available in sizes 3/4" through 4", in steel or stainless steel construction.

Features:

- Connect under residual pressure
- Thread-to-connect
- Up to 5,000 psi (345 bar) rated pressures
- Rugged steel construction with Zinc Trivalent Chromate plating
- Stainless steel construction also available
- Wide range of sizes
- Nitrile is standard seal material, other options available
- DBP version is "Fire Safe" rated to API 16D

Applications include:

- Cranes
- Power tongs
- Horizontal boring and dewatering

75 Series Pressure Ratings

| Body Size | Maximum Working Pressure (psi) Steel Only | Minimum Burst Pressure (psi) Steel Only | Maximum Working Pressure (psi) 316 Stainless (Connected Only) |
|-----------|---|---|---|
| 3/4 | 5000 | 20000 | 3000 |
| 1 | 5000 | 20000 | 3000 |
| 1-1/4 | 5000 | 15000 | 3000 |
| 1-1/2 | 5000 | 15000 | 3000 |
| 2 | 5000 | 15000 | 3000 |
| 2-1/2 | 3000 | 6000 | - |
| 3 | 3000 | 6000 | - |
| 4 | 400 | 1000 | - |

Burst pressures listed were taken at the point at which failure rendered the quick-disconnect inoperative. (Proof pressure equals 1-1/2 times the operating pressure).

NOTE: Pressure Ratings were established under static pressure conditions.

For impulse applications, multiply the above pressure ratings by .6 for approximate pressure ratings.

-Contact QCD

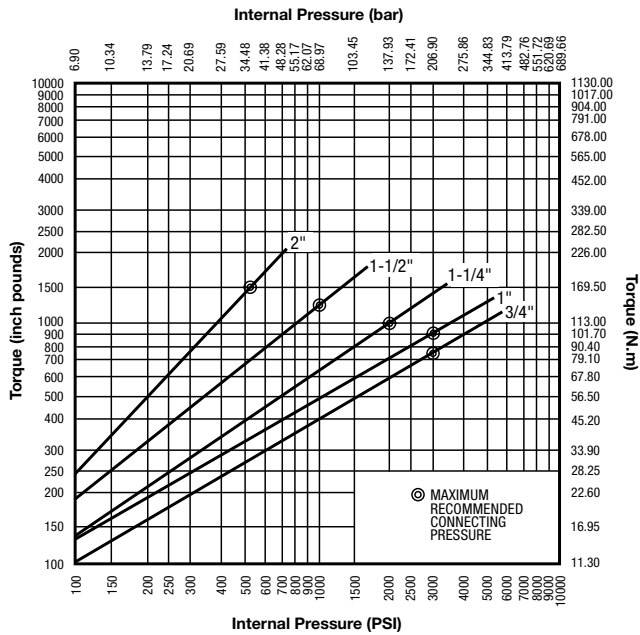
75 Series Specifications

| Body Size | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 4 |
|--------------------|-----|----|-------|-------|-----|-------|-----|-----|
| Spillage (cc) | 8 | 16 | 31 | 64 | 141 | 204 | 320 | 400 |
| Air Inclusion (cc) | 12 | 25 | 48 | 98 | 205 | 368 | 480 | 610 |

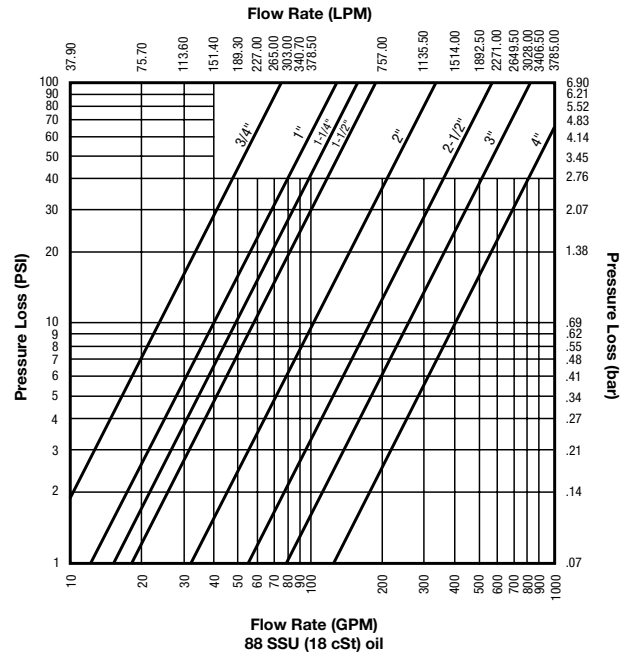


Performance

Torque Values for Connecting Under Pressure



Flow Chart



B Hydraulics

75 Series Dust Plugs and Caps

| Body Size | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 4 |
|----------------------|----------|----------|----------|----------|----------|----------|----------|
| Dust Plugs (Coupler) | 75MDP-12 | 75MDP-16 | 75MDP-20 | 75MDP-24 | 75MDP-32 | 75MDP-40 | 75MDP-64 |
| Dust Caps (Nipple) | 75MDC-12 | 75MDC-16 | 75MDC-20 | 75MDC-24 | 75MDC-32 | 75MDC-40 | 75MDC-64 |

75 Series Repair Kits

| Body Size | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 4 |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Coupler Kit | 75C12-SPK | 75C16-SPK | 75C20-SPK | 75C24-SPK | 75C32-SPK | 75C40-SPK | 75C64-SPK |
| Nipple Kit | 75N12-SPK | 75N16-SPK | 75N20-SPK | 75N24-SPK | 75N32-SPK | 75N40-SPK | 75N64-SPK |

Each kit contains a valve assembly, spring and guide stop. Consult QCD for "DBP" option seals.



75 Series Couplers



3/4" size

| Body Size | Part Number Steel | Port End | Part Number 316 Stainless Steel | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------------|-------------------|---------------------------------|------------------|-------------|------------------|--------------|
| 3/4 | 75C12-12F | 3/4-14 NPSF | S75C12-12F | 3/4-14 NPSF | 2.84 | 2.06 | 1.31 |
| 3/4 | 75C12-12F-DBP | 3/4-14 NPSF | - | - | 2.84 | 2.06 | N/A |
| 1 | 75C16-16F | 1-11-1/2 NPSF | S75C16-16F | 1-11-1/2 NPSF | 3.45 | 4.25 | 1.69 |
| 1 | 75C16-16F-DBP | 1-11-1/2 NPSF | - | - | 3.45 | 4.25 | N/A |
| 1-1/4 | 75C20-20F | 1-1/4-11-1/2 NPTF | S75C20-20F | 1-1/4-11-1/2 NPT | 4.40 | 4.75 | 2.00 |
| 1-1/4 | 75C20-20F-DBP | 1-1/4-11-1/2 NPTF | - | - | 4.40 | 4.75 | N/A |
| 1-1/2 | 75C24-24F | 1-1/2-11-1/2 NPTF | S75C24-24F | 1-1/2-11-1/2 NPT | 5.04 | 5.75 | 2.25 |
| 1-1/2 | 75C24-24F-DBP | 1-1/2-11-1/2 NPTF | - | - | 5.04 | 5.75 | N/A |
| 2 | 75C32-32F | 2-11-1/2 NPT | S75C32-32F | 2-11-1/2 NPT | 6.07 | 6.75 | 3.00 |
| 2 | 75C32-32F-DBP | 2-11-1/2 NPT | - | - | 6.07 | 6.75 | 3.00 |
| 2-1/2 | 75C40-40F | 2-1/2-8 NPTF | S75C40-40F | 2-1/2-8 NPTF | 5.29 | 8.00 | 3.50 |
| 3 | 75C48-48F | 3-8 NPTF | S75C48-48F | 3-8 NPTF | 5.84 | 8.50 | 4.25 |

75 Series Nipples



| Body Size | Part Number Steel | Port End | Part Number 316 Stainless Steel | Port End | Length (in) | Largest Diameter | Wrench Flats |
|-----------|-------------------|-------------------|---------------------------------|------------------|-------------|------------------|--------------|
| 3/4 | 75N12-12F | 3/4-14 NPSF | S75N12-12F | 3/4-14 NPSF | 3.27 | 1.75 | 1.56 |
| 3/4 | 75N12-12F-DBP | 3/4-14 NPSF | - | - | 3.27 | 1.75 | N/A |
| 1 | 75N16-16F | 1-11-1/2 NPSF | S75N16-16F | 1-11-1/2 NPSF | 4.17 | 2.25 | 2.00 |
| 1 | 75N16-16F-DBP | 1-11-1/2 NPSF | - | - | 4.17 | 2.25 | N/A |
| 1-1/4 | 75N20-20F | 1-1/4-11-1/2 NPTF | S75NC20-20F | 1-1/4-11-1/2 NPT | 5.36 | 2.62 | 2.38 |
| 1-1/4 | 75N20-20F-DBP | 1-1/4-11-1/2 NPTF | - | - | 5.36 | 2.62 | N/A |
| 1-1/2 | 75N24-24F | 1-1/2-11-1/2 NPTF | S75N24-24F | 1-1/2-11-1/2 NPT | 5.97 | 3.25 | 2.88 |
| 1-1/2 | 75N24-24F-DBP | 1-1/2-11-1/2 NPTF | - | - | 5.97 | 3.25 | N/A |
| 2 | 75N32-32F | 2-11-1/2 NPT | S75N32-32F | 2-11-1/2 NPT | 7.05 | 4.00 | 3.50 |
| 2 | 75N32-32F-DBP | 2-11-1/2 NPT | - | - | 7.05 | 4.00 | N/A |
| 2-1/2 | 75N40-40F | 2-1/2-8 NPTF | S75N40-40F | 2-1/2-8 NPTF | 7.46 | 5.00 | 3.50 |
| 3 | 75N48-48F | 3-8 NPTF | S75N48-48F | 3-8 NPTF | 8.26 | 6.00 | 4.25 |

Contact QCD for additional sizes and end configurations.

Optional Seal Materials and Features for Couplers and Nipples (add code to part number)

| Code | Description | Part Number Example |
|-------------------|---|--------------------------|
| suffix V | Fluorocarbon seal material | 75C12-12F V |
| suffix E | Ethylene Propylene seal material (EPR) | 75C12-12F E |
| suffix W | Wrench flats on body (standard on 2-1/2" and larger, no code required) | 75C12-12F W |
| suffix DBP | "Fire Safe" BOP version (3/4" - 2" steel only, no alternate seal options) | SB-75C12-12F- DBP |

Contact QCD for availability and additional options.

To select proper seal materials, see Fluid Compatibility Chart or contact QCD.





Parker's Snap-tite 71 Series couplings are designed for working pressures up to 10,000 psi. Available in a variety of materials and with a wide range of body sizes. Air inclusion and fluid loss are minimal with the flush face valves. Large flow chambers in the body and an exclusive valve design permit superior flow while maintaining low pressure drop.

Features:

- Flush face/Non-spill
- Push-to-connect
- Heavy duty construction
- Designed for up to 10,000 psi (690 bar) working pressures
- Variety of materials
- Wide range of sizes
- Superior flow and low pressure drop
- Sleeve lock option to protect against accidental disconnection.

Applications include:

- Industrial hydraulic lines
- Off-shore drilling

B Hydraulics



71 Series Pressure Ratings

| Body Size | Steel | | 316 Stainless Steel | | High Pressure Stainless Steel | |
|------------------------|-----------------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------|
| | Maximum Working (psi) | Minimum Burst* (psi) | Maximum Working (psi) | Minimum Burst* (psi) | Maximum Working (psi) | Minimum Burst* (psi) |
| 1/4 | 10,000 | 20,000 | 5,000 | 12,500 | 10,000 | 20,000 |
| 3/8 x 1/4 ¹ | 10,000 | 20,000 | 5,000 | 12,500 | 10,000 | 20,000 |
| 3/8 | 10,000 | 20,000 | 5,000 | 12,500 | 10,000 | 20,000 |
| 3/8 x 1/2 ² | 10,000 | 20,000 | 5,000 | 12,500 | 10,000 | 20,000 |
| 1/2 | 10,000 | 20,000 | 5,000 | 12,500 | 10,000 | 20,000 |
| 3/4 | 7,500 | 15,000 | 5,000 | 12,500 | 7,500 | 15,000 |
| 1 | 7,500 | 15,000 | 4,000 | 10,000 | 7,500 | 15,000 |
| 1 x 1-1/4 ³ | 7,500 | 15,000 | 4,000 | 10,000 | 7,500 | 15,000 |
| 2 x 1-1/2 ⁴ | 5,000 | 10,000 | 3,000 | 6,000 | 5,000 | 10,000 |
| 2 | 5,000 | 10,000 | 3,000 | 6,000 | 5,000 | 10,000 |

¹Unit is 3/8" with 1/4" end fitting. ²Unit is 3/8" with 1/2" end fitting, ³1" unit with 1-1/4" end fitting, and ⁴2" unit with 1-1/2" end fitting.

*NOTE: Pressure Ratings were established under static pressure conditions. For high impulse applications, consult QCD.

Specifications

| Body Size | 1/4 | 3/8 x 1/4 ¹ | 3/8 | 3/8 x 1/2 ² | 1/2 | 3/4 | 1 | 1 x 1-1/4 ³ | 2 x 1-1/4 ⁴ | 2 |
|--------------------|-----|------------------------|-----|------------------------|-----|-----|-----|------------------------|------------------------|-------|
| Spillage (cc) | .02 | .02 | .02 | .02 | .03 | .06 | .10 | .10 | 5.25 | 5.25 |
| Air Inclusion (cc) | .01 | .02 | .02 | .02 | .03 | .04 | .06 | .06 | 30.50 | 30.50 |

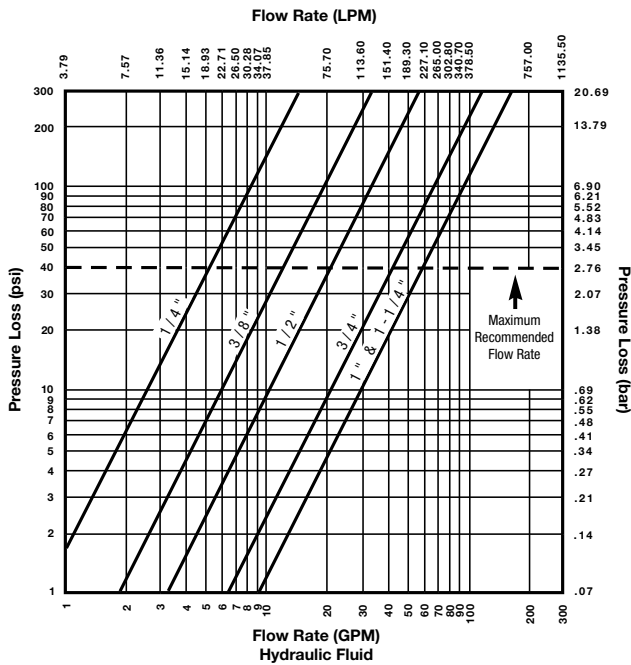
Maximum Recommended Connect/Disconnect Pressures

| Body Size | 1/4 | 3/8, 1/2, 3/4 | 1, 1-1/4 | 1-1/2, 2 |
|-----------|-----|---------------|----------|----------|
| Pressure | 300 | 150 | 75 | 0 |

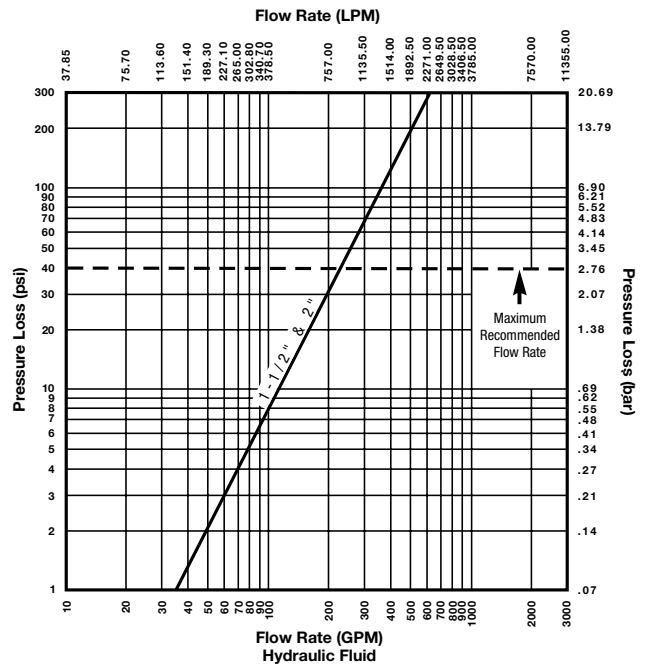


Performance

Sizes 1/4 thru 1-1/4



Sizes 1-1/2 and 2



Gallons per minute (gpm) in US gallons. Test Media MIL-H-6083 Hydraulic Fluid at 90°F ± 5°F [+32°C ± 1.5°C] sg .83

Ordering Guide

71-3 C 4 - 4 F

- Options:**
SL = Sleeve Lock
- Seals:**
Standard Seal = Nitrile
V = Fluorocarbon
E = Ethylene Propylene
M = MHO
- End Fitting Type:**
F* = Female NPTF
EF = Female SAE
RP = Female British Parallel BS2779
Autoclave cone & threaded fittings available (consult QCD)
- End Fitting Size:**
4 = 1/4" 16 = 1"
6 = 3/8" 20 = 1-1/4"
8 = 1/2" 24 = 1-1/2"
12 = 3/4" 32 = 2"
- Coupling Body Size:**
4 = 1/4" 12 = 3/4"
6 = 3/8" 16 = 1"
8 = 1/2" 32 = 2"
- Coupling Half:**
C = Coupler
N = Nipple
- Series:**
71 = 1-1/2" & 2" Nipples Only
71-1 = 1-1/2" & 2" Couplers Only
71-3 = 1/4" thru 1-1/4" Both
- Material:**
Blank = Steel, zinc trivalent plating
S = 316 Stainless Steel
SH = High Pressure Stainless Steel

* For sizes up to 1" NPTF threads in steel.
 For sizes up to 1" NPSF threads in stainless steel.
 For sizes over 1" NPT threads.





71 Series Couplers



| Body Size | Part Number Steel | Port End | Part Number 316 Stainless Steel | Part Number High Pressure Stainless Steel | Port End | Length (in) | Largest Dia. | Wrench Flats |
|-----------|-------------------|--------------------|---------------------------------|---|--------------------|-------------|--------------|--------------|
| 1/4 | 71-3C4-4F | 1/4 - 18 NPTF | S71-3C4-4F | SH71-3C4-4F | 1/4 - 18 NPTF | 1.96 | 1.19 | 0.94 |
| 1/4 | 71-3C4-4EF | 7/16 - 20 UNF | S71-3C4-4EF | - | 7/16 - 20 UNF | 1.96 | 1.19 | 0.94 |
| 3/8 | 71-3C6-4F | 1/4 - 18 NPTF | - | - | - | 2.36 | 1.56 | 1.19 |
| 3/8 | 71-3C6-6F | 3/8 - 18 NPTF | S71-3C6-6F | SH71-3C6-6F | 3/8 - 18 NPSF | 2.36 | 1.56 | 1.19 |
| 3/8 | 71-3C6-6EF | 9/16 - 18 UNF | S71-3C6-6EF | SH71-3C6-6EF | 9/16 - 18 UNF | 2.36 | 1.56 | 1.19 |
| 3/8 | 71-3C6-8F | 1/2 - 14 NPTF | S71-3C6-8F | - | 1/2 - 14 NPSF | 2.57 | 1.56 | 1.19 |
| 1/2 | 71-3C8-8F | 1/2 - 14 NPTF | S71-3C8-8F | SH71-3C8-8F | 1/2 - 14 NPSF | 2.77 | 1.88 | 1.50 |
| 1/2 | 71-3C8-8EF | 7/8 - 14 UNF | S71-3C8-8EF | - | 7/8 - 14 UNF | 2.77 | 1.88 | 1.50 |
| 3/4 | 71-3C12-12F | 3/4 - 14 NPTF | S71-3C12-12F | SH71-3C12-12F | 3/4 - 14 NPSF | 3.05 | 2.25 | 1.75 |
| 3/4 | 71-3C12-12EF | 1-1/16 - 12 UNF | S71-3C12-12EF | - | 1-1/16 - 12 UNF | 3.05 | 2.25 | 1.75 |
| 1 | 71-3C16-16F | 1 - 11-1/2 NPTF | S71-3C16-16F | SH71-3C16-16F | 1 - 11-1/2 NPSF | 3.32 | 2.63 | 2.00 |
| 1 | 71-3C16-16EF | 1-5/16 - 12 UNF | S71-3C16-16EF | - | 1-5/16 - 12 UNF | 3.32 | 2.63 | 2.00 |
| 1 | 71-3C16-20F | 1-1/4 - 11-1/2 NPT | S71-3C16-20F | - | 1-1/4 - 11-1/2 NPT | 3.32 | 2.63 | 2.00 |
| 1 | 71-3C16-20EF | 1-5/8 - 12 UNF | S71-3C16-20EF | - | 1-5/8 - 12 UNF | 3.32 | 2.63 | 2.00 |
| 2 | 71-1C32-24F | 1-1/2 - 11-1/2 NPT | - | - | - | 6.21 | 4.50 | 3.38 |
| 2 | 71-1C32-24EF | 1-7/8 - 12 UNF | - | - | - | 6.21 | 4.50 | 3.38 |
| 2 | 71-1C32-32F | 2 - 11-1/2 NPT | - | - | - | 6.21 | 4.50 | 3.38 |
| 2 | 71-1C32-32EF | 2-1/2 - 12 UNF | - | - | - | 6.21 | 4.50 | 3.38 |

B Hydraulics



71 Series Nipples



| Body Size | Part Number Steel | Port End | Part Number 316 Stainless Steel | Part Number High Pressure Stainless Steel | Port End | Length (in) | Largest Dia. | Wrench Flats |
|-----------|-------------------|--------------------|---------------------------------|---|--------------------|-------------|--------------|--------------|
| 1/4 | 71-3N4-4F | 1/4 - 18 NPTF | S71-3N4-4F | SH71-3N4-4F | 1/4 - 18 NPTF | 1.84 | 0.89 | 0.81 |
| 1/4 | 71-3N4-4EF | 7/16 - 20 UNF | S71-3N4-4EF | - | 7/16 - 20 UNF | 1.84 | 0.89 | 0.81 |
| 3/8 | 71-3N6-4F | 1/4 - 18 NPTF | - | - | - | 1.84 | 1.18 | 1.00 |
| 3/8 | 71-3N6-6F | 3/8 - 18 NPTF | S71-3N6-6F | SH71-3N6-6F | 3/8 - 18 NPSF | 2.32 | 1.18 | 1.00 |
| 3/8 | 71-3N6-6EF | 9/16 - 18 UNF | S71-3N6-6EF | SH71-3N6-6EF | 9/16 - 18 UNF | 2.32 | 1.18 | 1.00 |
| 3/8 | 71-3N6-8F | 1/2 - 14 NPTF | - | - | - | 2.57 | 1.65 | 1.25 |
| 1/2 | 71-3N8-8F | 1/2 - 14 NPTF | S71-3N8-8F | SH71-3N8-8F | 1/2 - 14 NPSF | 2.38 | 1.65 | 1.50 |
| 1/2 | 71-3N8-8EF | 7/8 - 14 UNF | S71-3N8-8EF | SH71-3N8-8EF | 7/8 - 14 UNF | 2.38 | 1.65 | 1.50 |
| 3/4 | 71-3N12-12F | 3/4 - 14 NPTF | S71-3N12-12F | SH71-3N12-12F | 3/4 - 14 NPSF | 2.96 | 1.92 | 1.75 |
| 3/4 | 71-3N12-12EF | 1-1/16 - 12 UNF | S71-3N12-12EF | - | 1-1/16 - 12 UNF | 2.96 | 1.92 | 1.75 |
| 1 | 71-3N16-16F | 1 - 11-1/2 NPTF | S71-3N16-16F | SH71-3N16-16F | 1 - 11-1/2 NPSF | 3.23 | 2.09 | 1.88 |
| 1 | 71-3N16-16EF | 1-5/16 - 12 UNF | S71-3N16-16EF | - | 1-5/16 - 12 UNF | 3.23 | 2.09 | 1.88 |
| 1 | 71-3N16-20F | 1-1/4 - 11-1/2 NPT | S71-3N16-20F | - | 1-1/4 - 11-1/2 NPT | 3.23 | 2.20 | 1.88 |
| 1 | 71-3N16-20EF | 1-5/8 - 12 UNF | S71-3N16-20EF | - | 1-5/8 - 12 UNF | 3.23 | 2.20 | 1.88 |
| 2 | 71N32-24F | 1-1/2 - 11-1/2 NPT | - | - | - | 4.50 | 3.50 | 3.25 |
| 2 | 71N32-24EF | 1-7/8 - 12 UNF | - | - | - | 4.50 | 3.50 | 3.25 |
| 2 | 71N32-32F | 2 - 11-1/2 NPT | - | - | - | 4.50 | 3.50 | 3.25 |

B Hydraulics



The 3000 Series coupling are designed for high pressure applications. The coupler sleeve and nipple body must be manually threaded together to make the connection.

Features:

- Manual threaded connection and actuation
- Hard, chrome alloy ball valves
- Polyurethane interface seal resists high pressure extrusion
- Threaded retainer provides a positive valve stop
- Protective zinc plating with clear trivalent chromate finish

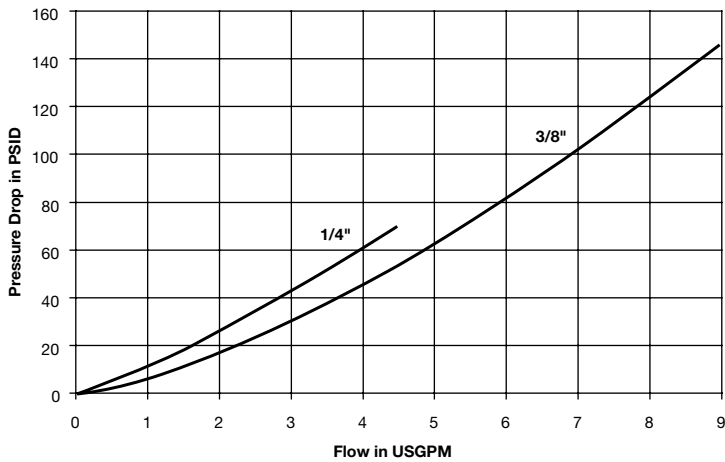
Applications include:

- Hydraulic rams
- Portable hydraulic tools
- Crimping equipment

| 3000 Series Specifications | | | | | | |
|----------------------------|------------------|----------------------|-------------------|---------------|-------------------|---------------|
| Body Size | Rated Flow (gpm) | Rated Pressure (psi) | Temperature | Body Material | Sleeve Type | Seal Material |
| 1/4 | 3 | 10,000 | -22° F to +230° F | Steel | Thread to connect | Polyurethane |
| 3/8 | 6 | | | Steel | Thread to connect | Polyurethane |

Performance:

3000 Series (1/4", 3/8")
 Test Fluid: Oil - 200 SUS





3000 Series Couplers



| Body Size | Coupler Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|---------------------|----------------------|------------|--------|------------------|--------------|---------------|
| 1/4 | 3050-2 | 1/4-18 NPTF (Male) | Ball | 2.38 | 1.13 | 0.81 | 0.25 |
| 3/8 | 3050-3 | 3/8-18 NPTF (Male) | Ball | 2.38 | 1.38 | 1.00 | 0.49 |
| 3/8 | 3050-3-231 | 3/8-18 NPTF (Female) | Ball | 2.38 | 1.38 | 1.00 | 0.49 |

3000 Series Nipples



| Body Size | Nipple Part Number | Port End | Valve Type | Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|--------------------|----------------------|------------|--------|------------------|--------------|---------------|
| 1/4 | 3010-2 | 1/4-18 NPTF (Female) | Ball | 1.29 | 1.13 | 0.88 | 0.14 |
| 3/8 | 3010-3 | 3/8-18 NPTF (Female) | Ball | 1.58 | 1.25 | 0.94 | 0.23 |
| 3/8 | 3010-3-230 | 3/8-18 NPTF (Male) | Ball | 2.31 | 1.25 | 1.00 | 0.30 |

3000 Series Replacement O-Rings

| Body Size | Material | Part Number | Durometer |
|-----------|--------------|----------------|-----------|
| 1/4 | Polyurethane | 50001-114-0296 | 90 |
| 3/8 | Polyurethane | 50001-210-0296 | 90 |

3000 Series Dust Caps and Plugs



| Body Size | Dust Cap (Nipple) | Color/Material | Dust Plug (Coupler) | Weight (lbs.) |
|-----------|-------------------|----------------|---------------------|---------------|
| 1/4 | 3009-2 | Steel | 3005-2 | .02 |
| 3/8 | 3009-3 | Steel | 3005-3 | .04 |



TC Series couplings are used in high pressure applications with hydraulic and mechanical shock. Steel coupler sleeves and nipple bodies are hardened for resistance to damage. Fluorocarbon seals along with PTFE back up rings provide reliable sealing in high pressures. Available in 3/8 inch size only, with sleeve lock to guard against accidental disconnection.

Features:

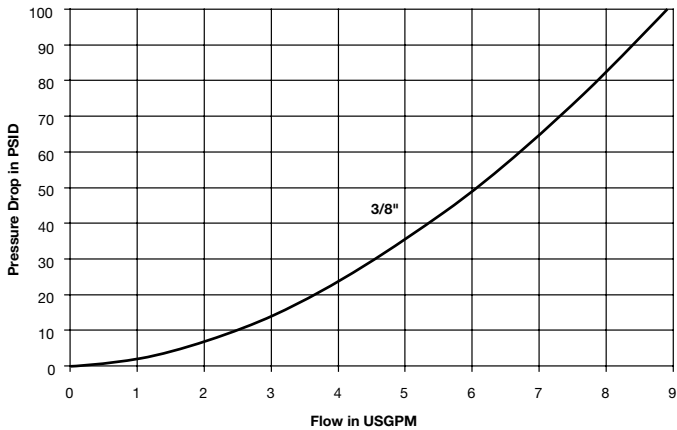
- Rated pressure up to 10,000 psi
- Manual sleeve operation
- Fluorocarbon seals
- Standard sleeve lock guards against accidental disconnection
- Positive valve stop prevents flow checking
- Standard end configuration is female pipe thread
- Protective zinc plating with clear trivalent chromate finish

Applications:

- Hydraulic jacking and house moving equipment
- Construction equipment
- Railway maintenance

Performance

TC Series (3/8")
 Test Fluid: Oil - 200 SUS



Specifications

| | |
|--------------------------------------|-----------------|
| Body Size | 3/8 |
| Rated Pressure (psi) | 10,000 |
| Rated Flow (gpm) | 6 |
| Temperature Range (std seals) | -15° to +400° F |

TC Series Dust Plug/Caps

TR-37

Coupler



| Body Size | Part Number | Thread Size | Overall Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------|-------------|----------------|------------------|--------------|---------------|
| 3/8 | TC-371 | 3/8-18 NPSF | 2.48 | 1.25 | 0.94 | 0.43 |

Nipple



| Body Size | Part Number | Thread Size | Overall Length | Exposed Length | Largest Diameter | Wrench Flats | Weight (lbs.) |
|-----------|-------------|-------------|----------------|----------------|------------------|--------------|---------------|
| 3/8 | TC-372 | 3/8-18 NPSF | 1.82 | 0.66 | 1.08 | 0.94 | 0.14 |



1141 Series are general purpose couplings that connect under pressure for high pressure applications. The 1/4 inch stainless steel coupling connects together with a threaded brass sleeve. Polyurethane seals resist extrusion and abrasion.

Features:

- 303 stainless steel body
- Rated pressure up to 10,000 psi and 17,000 psi intermittent pressure
- Small diameter mating seal keeps separation forces to a minimum, allowing easier threaded connection and disconnection at pressures up to 5,000 psi
- Polyurethane seals to resist extrusion and abrasion
- Self locking threads guard against accidental disconnection
- Visual connection indicator – when fully coupled, sleeve edge is flush with the end of the male thread
- Standard end configuration is female pipe thread
- Dust caps and plugs included

Applications:

- Off shore equipment
- Hydraulic lines in corrosive environments

| Specifications | |
|---|-----------------|
| Body Size | 1/4 |
| Rated Pressure (psi) | 10,000 |
| Rated Connect-Under-Pressure Capability (psi) | 5,000 |
| Rated Flow (gpm) | 3 |
| Temperature Range (Polyurethane seals) | -30° to +180° F |
| Vacuum Test | 20 in/Hg |
| Torque to connect at 1000 psi | 47 in/lbs. |

Coupler



| Body Size | Part Number | Thread Size | Length | Sleeve Hex | Wrench Flat | Weight (lbs.) |
|-----------|-------------|-------------|--------|------------|-------------|---------------|
| 1/4 | 1141-62 | 1/4-18 NPTF | 2.75 | 1.00 | 0.88 | 0.40 |

Nipple



| Body Size | Part Number | Thread Size | Length | Wrench Flat | Weight (lbs.) |
|-----------|-------------|-------------|--------|-------------|---------------|
| 1/4 | 1141-63 | 1/4-18 NPTF | 2.00 | 0.88 | 0.26 |



ST Series non-valved couplings provide maximum flow and low pressure drop. The smooth, open bore allows easy cleaning in applications where the same lines are used for more than one media.

Features

- Steel nipples are case hardened for resistance to Brinelling
- Functionally interchanges with similar straight-through design couplings
- Standard Nitrile seals
- Material options available
- Sleeve-Lok option available

Applications:

- High pressure water
- Steam washers
- Carpet cleaners

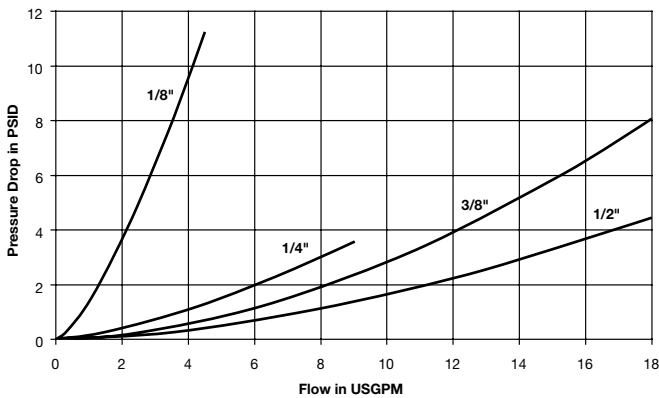


Specifications

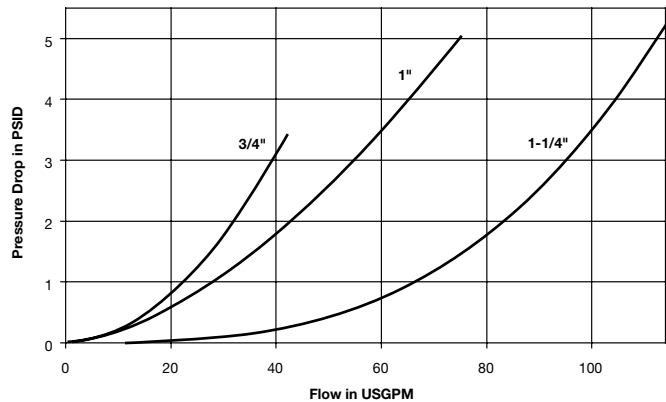
| Body Size | Rated Pressure (psi) Brass Coupler/Nipple | Rated Pressure (psi) Brass Coupler/Steel Nipple | Rated Pressure (psi) 303 SS Coupler/Nipple | Temperature Range (standard seals) | Rated Flow |
|-----------|--|--|---|---------------------------------------|------------|
| 1/8 | 2500 | 2600 | 4200 | -40° to +250° F | 3 |
| 1/4 | 5200 | 5500 | 6700 | | 6 |
| 3/8 | 2700 | 3500 | 5500 | | 12 |
| 1/2 | 2200 | 2700 | 3000 | | 12 |
| 3/4 | 1700 | 2700 | 3000 | | 28 |
| 1 | 1200 | 2000 | 1700 | | 50 |
| 1-1/4 | 1700 | - | - | | 76 |
| 1-1/2 | 1400 | - | - | | 100 |

Performance

ST Series (1/8", 1/4", 3/8", 1/2")
 Test Fluid: Oil - 150 SUS



ST Series (3/4", 1", 1-1/4")
 Test Fluid: Oil - 150 SUS





ST Series Couplers - Female Pipe Thread



| Body Size | Brass Part Number | 303 Stainless Part Number | Port End | Length | Largest Diameter | Wrench Flats | Brass Weight (lbs.) | Stainless Weight (lbs.) |
|-----------|-------------------|---------------------------|-------------------|--------|------------------|--------------|---------------------|-------------------------|
| 1/8 | BST-1 | SST-1 | 1/8-27 NPTF | 1.06 | 0.69 | 0.56 | 0.06 | 0.05 |
| 1/4 | BST-2 | SST-2 | 1/4-18 NPTF | 1.54 | 0.94 | 0.81 | 0.17 | 0.15 |
| 3/8 | BST-3 | SST-3 | 3/8-18 NPTF | 1.64 | 1.16 | 1.00 | 0.26 | 0.24 |
| 1/2 | BST-4 | SST-4 | 1/2-14 NPTF | 1.98 | 1.30 | 1.13 | 0.40 | 0.37 |
| 3/4 | BST-6 | SST-6 | 3/4-14 NPTF | 2.15 | 1.66 | 1.44 | 0.62 | 0.57 |
| 1 | BST-8 | SST-8 | 1-11 1/2 NPTF | 2.43 | 2.02 | 1.75 | 0.99 | 0.93 |
| 1-1/4 | BST-10 | - | 1 1/4-11 1/2 NPTF | 2.44 | 2.51 | 2.00 | 1.38 | - |
| 1-1/2 | BST-12 | - | 1 1/2-11 1/2 NPTF | 2.88 | 3.00 | 2.50 | 2.43 | - |

ST Series Couplers - Male Pipe Thread



| Body Size | Brass Part Number | 303 Stainless Part Number | Port End | Length | Largest Diameter | Wrench Flats | Brass Weight (lbs.) | Stainless Weight (lbs.) |
|-----------|-------------------|---------------------------|---------------|--------|------------------|--------------|---------------------|-------------------------|
| 1/8 | BST-1M | SST-1M | 1/8-27 NPTF | 1.06 | 0.69 | 0.56 | 0.05 | 0.05 |
| 1/4 | BST-2M | SST-2M | 1/4-18 NPTF | 1.69 | 0.94 | 0.81 | 0.13 | 0.16 |
| 3/8 | BST-3M | SST-3M | 3/8-18 NPTF | 1.75 | 1.16 | 1.00 | 0.25 | 1.16 |
| 1/2 | BST-4M | SST-4M | 1/2-14 NPTF | 1.94 | 1.30 | 1.13 | 0.34 | 1.30 |
| 3/4 | BST-6M | SST-6M | 3/4-14 NPTF | 2.17 | 1.66 | 1.44 | - | 1.66 |
| 1 | BST-8M | SST-8M | 1-11 1/2 NPTF | 2.53 | 2.02 | 1.75 | 0.85 | 2.02 |

Optional Materials and Features:

(add code to part number)

| Code | Description | Part Number Example |
|-------------------|--|---------------------|
| suffix -SL | Sleeve-Lok (Couplers) | SST-3M-SL |
| suffix W | Ethylene Propylene seal material- EPR (Couplers) | SST-3MW |
| suffix Y | Fluorocarbon seal material (Couplers) | SST-3MY |
| suffix Z | Neoprene seal material (Couplers) | SST-3MZ |

Contact QCD for availability and additional options.
 To select proper seal materials, see Fluid Compatibility Chart or contact QCD.



ST Series Nipples- Female Pipe Thread



| Body Size | Brass Part No. | Weight. (lbs.) | Steel Part No. | Weight. (lbs.) | 303 Stainless Part No. | Weight. (lbs.) | Length | Largest Diameter | Wrench Flats |
|-----------|----------------|----------------|----------------|----------------|------------------------|----------------|--------|------------------|--------------|
| 1/8 | BST-N1 | 0.03 | ST-N1 | 0.03 | SST-N1 | 0.02 | 0.98 | 0.65 | 0.56 |
| 1/4 | BST-N2 | 0.07 | ST-N2 | 0.07 | SST-N2 | 0.07 | 1.46 | 0.87 | 0.75 |
| 3/8 | BST-N3 | 0.12 | ST-N3 | 0.11 | SST-N3 | 0.11 | 1.62 | 1.59 | 0.08 |
| 1/2 | BST-N4 | 0.23 | ST-N4 | 0.21 | SST-N4 | 0.21 | 1.85 | 1.30 | 1.13 |
| 3/4 | BST-N6 | 0.33 | ST-N6 | 0.32 | SST-N6 | 0.32 | 2.15 | 1.59 | 1.38 |
| 1 | BST-N8 | 0.52 | ST-N8 | 0.49 | SST-N8 | 0.48 | 2.35 | 1.88 | 1.63 |
| 1-1/4 | BST-N10 | 0.85 | - | - | - | - | 2.38 | 2.31 | 2.00 |
| 1-1/2 | BST-N12 | 1.45 | - | - | - | - | 2.81 | 2.74 | 2.38 |

ST Series Nipples- Male Pipe Thread



| Body Size | Brass Part No. | Weight. (lbs.) | Steel Part No. | Weight. (lbs.) | 303 Stainless Part No. | Weight. (lbs.) | Length | Largest Diameter | Wrench Flats |
|-----------|----------------|----------------|----------------|----------------|------------------------|----------------|--------|------------------|--------------|
| 1/8 | BST-N1M | 0.02 | ST-N1M | 0.02 | SST-N1M | 0.02 | 1.04 | 0.51 | 0.44 |
| 1/4 | BST-N2M | 0.06 | ST-N2M | 0.05 | SST-N2M | 0.05 | 1.53 | 0.65 | 0.56 |
| 3/8 | BST-N3M | 0.08 | ST-N3M | 0.07 | SST-N3M | 0.08 | 1.69 | 0.79 | 0.69 |
| 1/2 | BST-N4M | 0.15 | ST-N4M | 0.13 | SST-N4M | 0.13 | 1.94 | 1.01 | 0.88 |
| 3/4 | BST-N6M | 0.23 | ST-N6M | 0.21 | SST-N6M | 0.22 | 2.19 | 1.23 | 1.06 |
| 1 | BST-N8M | 0.46 | ST-N8M | 0.43 | SST-N8M | 0.43 | 2.51 | 1.59 | 1.38 |
| 1-1/4 | BST-N10M | 0.96 | - | - | - | - | 2.85 | 2.17 | 1.88 |
| 1-1/2 | BST-N12M | 1.46 | - | - | - | - | 3.25 | 2.45 | 2.13 |

Hydraulic Quick Couplings

High Flow

1163 Series

Water Hose Connectors

Non-valved, manual sleeve



Parker Water Service Quick Couplings add convenience and efficiency wherever water hoses are frequently connected and disconnected. The durable 4-ball locking mechanism provides a secure connection.

Features:

- Brass and stainless steel construction
- Nitrile seals

Applications include:

- Garden hoses
- Wash down systems
- Mobile water tank lines

B Hydraulics

| Specifications | | | |
|----------------|----------------------|------------------|-------------------------------|
| Body Size | Rated Pressure (psi) | Rated Flow (gpm) | Temperature Range (std seals) |
| 3/4 | 200 | 28 | -40° to +250° F |

| Coupler | | | | | |
|-----------|---------------------|---------------|--------|------------------|---------------|
| | | | | | |
| Body Size | Coupler Part Number | Port End | Length | Largest Diameter | Weight (lbs.) |
| 3/4 | 1163-60 | 3/4-11 1/2 NH | 1.16 | 1.21 | 0.12 |

| Nipple | | | | | |
|-----------|--------------------|---------------|----------------|----------------|---------------|
| | | | | | |
| Body Size | Nipple Part Number | Port End | Overall Length | Exposed Length | Weight (lbs.) |
| 3/4 | 1163-61 | 3/4-11 1/2 NH | 1.25 | 0.50 | 0.08 |



HO series couplings are high flow, high pressure, steel couplings for a wide variety of applications. Electroless nickel plating provides corrosion resistance.

Features:

- Steel material with electroless nickel plating
- Nitrile seals with PTFE back up ring
- No valving, unrestricted flow
- Standard sleeve lock guards against accidental disconnection
- Rated pressures up to 15,000 psi

Applications:

- Paper and pulp processing
- Refinery systems
- Testing systems

Specifications

| | | | |
|--------------------------------------|----------------|--------|--------|
| Body Size | 1/4 | 3/8 | 1/2 |
| Rated Pressure (PSI) | 15,000 | 15,000 | 10,000 |
| Rated Flow (GPM) | 3 | 6 | 12 |
| Temperature Range (std seals) | -40° to +250°F | | |



B Hydraulics

Couplers



| Body Size | Part Number | Thread Size | Overall Length | Largest Diameter | Wrench Flats | Weight (lbs.) | Dust Plug Rubber |
|-----------|-------------|-------------|----------------|------------------|--------------|---------------|------------------|
| 1/4 | HO-251-4FP | 1/4-18 NPTF | 1.67 | 1.06 | 0.94 | 0.24 | TR-37 |
| 3/8 | HO-371-6FP | 3/8-18 NPTF | 1.67 | 1.06 | 0.94 | 0.22 | TR-37 |
| 1/2 | HO-501-8FP | 1/2-14 NPTF | 2.03 | 1.62 | 1.25 | 0.52 | DP-50 |

Optional Seal Materials:

| Code | Description | Part Number Example |
|--------------------|--|---------------------|
| suffix -E5 | Ethylene Propylene seal material- EPR (Couplers) | HO-371-6FP-E5 |
| suffix -E4 | Fluorocarbon seal material (Couplers) | HO-371-6FP-E4 |
| suffix -E12 | Neoprene seal material (Couplers) | HO-371-6FP-E12 |

To select proper seal materials, see Fluid Compatibility Chart or contact QCD Contact QCD for availability..

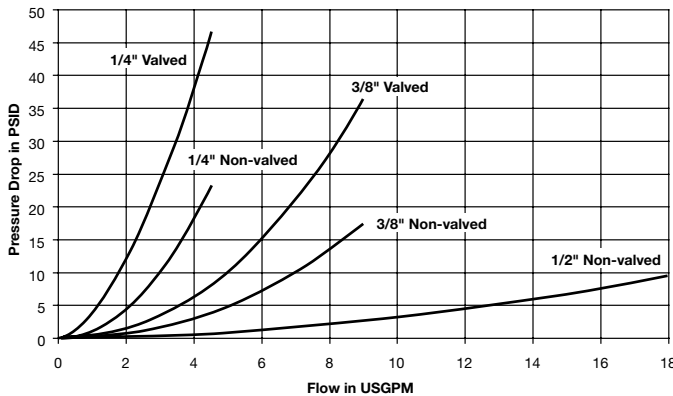
Nipples



| Body Size | Part Number | Thread Size | Overall Length | Exposed Length | Largest Diameter | Wrench Flats | Weight (lbs.) | Dust Plug Rubber |
|-----------|-------------|-------------|----------------|----------------|------------------|--------------|---------------|------------------|
| 1/4 | HO-252-4FP | 1/4-18 NPTF | 1.40 | 0.66 | 0.94 | 0.81 | 0.10 | TR-37 |
| 3/8 | HO-372-6FP | 3/8-18 NPTF | 1.44 | 0.70 | 1.08 | 0.94 | 0.12 | TR-37 |
| 1/2 | HO-502-8FP | 1/2-14 NPTF | 2.03 | 0.86 | 1.30 | 1.12 | 0.26 | DP-50 |



Performance **Moldmate Series (1/4", 3/8", 1/2")**
 Test Fluid: Water (Straight Coupler)



Guidelines for Selection and Use:

Non-valved couplers provide maximum flow for efficient cooling. Valved couplers shut off automatically when disconnected. Valved couplers can be used with either valved or non-valved nipples. A valved nipple, however, must be used with a valved coupler.

Moldmate couplings are rated for 200 psi max pressure. Most thermoplastic and thermoset heat transfer systems have pumps which provide relatively high flow rates at low pressures. Water and water glycol systems usually have capacities ranging from 10 to 40 gpm with most from 10 to 15 gpm. Normal medial opening pressures are 20 to 60 psi for these systems. Heat transfer systems using oil generally operate from 10 to 30 psi. However, their flow rates are usually much higher, requiring the total volume of oil to be circulated at least once per minute.

The number of hose connections in a single mold system results in a cumulative pressure drop. Please note the Pressure Drop vs. Flow Rate chart provided, to select the appropriate size.

Temperature is another important consideration. Parker Moldmate couplings with the standard silicone seal have a temperature capability of -90° to +400°F. Rapid deterioration of the seal and leakage may result if used beyond these limits.

External conditions of temperature, corrosive atmospheres, and other abnormalities may affect coupling performance and must be considered when selection is made. Consult QCD with questions.

Moldmate series couplings are specifically designed for connecting coolant lines to molds and dies on injection molding machinery and die casting equipment. These couplings significantly reduce downtime, by providing a quick and easy way to connect and disconnect lines during mold changes.

Features:

- Rated pressure is 200 psi
- Valved and unvalved options. Valved couplers have silver colored sleeves
- Brass material with standard silicone interface seals are compatible with water and water glycol fluids. Valved versions have a fluorocarbon seal on the poppet.
- Optional fluorocarbon seal for use with oil based media
- Short nipples can be installed recessed below the mold surface enabling more efficient storage and protecting the nipple from damage
- Standard and Push-Lok hose barb ends are available in straight, 45 or 90 degree configurations
- Manual sleeve operation
- Extension nipples are offered in several lengths

Applications:

- Mold coolant lines
- Die casting equipment

Special Order Information:

Standard seal material is Silicone and is compatible with water and water glycol fluids commonly used in heat transfer systems. Fluorocarbon seals are available for use with oil-based media. To specify a Fluorocarbon seal, add the suffix "Y" to the standard moldmate part number, thus: PC206Y.

| Specifications | | | |
|----------------------|-----|-----|-----|
| Body Size | 1/4 | 3/8 | 1/2 |
| Rated Pressure (psi) | 200 | | |
| Rated Flow (gpm) | 3 | 6 | 12 |

| Material | Temperature Range |
|-----------------------------|-------------------|
| Standard Silicone seal | -20° to +400° F |
| *Optional Fluorocarbon seal | -15° to +400° F |

* For use with oil based media only



B Hydraulics

Couplers - Straight



Push-Lok Hose Barb



Standard Hose Barb

| Body Size | Part Number Brass Non-Valved | Weight (lb.) | Part Number Brass Valved | Weight (lb.) | Hose I.D. | Overall Length | Largest Diameter | Non-Valved | | Wrench Flats |
|-----------|------------------------------|--------------|--------------------------|--------------|-----------|----------------|------------------|----------------|------------------|--------------|
| | | | | | | | | Overall Length | Largest Diameter | |
| 1/4 | PC204 | 0.10 | PC204AV | 0.10 | 1/4 | 1.87 | 0.63 | 2.67 | 0.71 | 0.63 |
| 1/4 | PC204-BP* | 0.10 | PC204AV-BP | 0.10 | 1/4 | 1.89 | 0.63 | 2.52 | 0.71 | 0.63 |
| 1/4 | PC205 | 0.09 | PC205AV | 0.10 | 5/16 | 1.87 | 0.63 | 2.67 | 0.71 | 0.63 |
| 1/4 | PC206 | 0.09 | PC206AV | 0.10 | 3/8 | 1.87 | 0.63 | 2.67 | 0.71 | 0.63 |
| 1/4 | PC206-BP* | 0.11 | PC206AV-BP | 0.13 | 3/8 | 2.04 | 0.63 | 2.70 | 0.71 | 0.63 |
| 3/8 | PC306 | 0.24 | PC306V | 0.27 | 3/8 | 3.01 | 0.96 | 3.17 | 1.01 | 0.88 |
| 3/8 | PC306-BP* | 0.26 | PC306V-BP | 0.29 | 3/8 | 3.15 | 0.96 | 3.31 | 1.01 | 0.88 |
| 3/8 | PC308 | 0.25 | PC308V | 0.28 | 1/2 | 3.15 | 0.96 | 3.17 | 1.01 | 0.88 |
| 3/8 | PC308-BP* | 0.25 | PC308V-BP | 0.03 | 1/2 | 3.27 | 0.96 | 3.43 | 1.01 | 0.88 |
| 1/2 | PC504 | 0.46 | NA | - | 1/2 | 3.55 | 1.30 | | | - |
| 1/2 | PC504-BP* | 0.50 | NA | - | 1/2 | 3.68 | 1.21 | | | - |
| 1/2 | PC506 | 0.48 | NA | - | 3/4 | 3.80 | 1.21 | | | - |
| 1/2 | PC506-BP* | 0.52 | NA | - | 3/4 | 3.80 | 1.21 | | | - |

NA = Not Available

Couplers - 45 Degree



Push-Lok Hose Barb



Standard Hose Barb

| Body Size | Part Number Brass Non-Valved | Weight (lb.) | Part Number Brass Valved | Weight (lb.) | Hose I.D. | Overall Length | Largest Diameter | Wrench Flats | Non-Valved | | Wrench Flats |
|-----------|------------------------------|--------------|--------------------------|--------------|-----------|----------------|------------------|--------------|----------------|------------------|--------------|
| | | | | | | | | | Overall Length | Largest Diameter | |
| 1/4 | PC224 | 0.13 | PC224AV | 0.13 | 1/4 | 2.67 | 0.71 | 0.56 | 2.87 | 0.71 | 0.63 |
| 1/4 | PC224-BP* | 0.13 | PC224AV-BP | 0.14 | 1/4 | 2.57 | 0.71 | 0.56 | 2.77 | 0.71 | 0.63 |
| 1/4 | PC226 | 0.13 | PC226AV | 0.14 | 3/8 | 2.71 | 0.71 | 0.56 | 2.91 | 0.71 | 0.63 |
| 1/4 | PC226-BP* | 0.26 | PC226AV-BP | 0.17 | 3/8 | 2.74 | 0.71 | 0.56 | 2.94 | 0.71 | 0.63 |
| 3/8 | PC326 | 0.36 | PC326V | 0.36 | 3/8 | 3.65 | 0.96 | 0.88 | 3.65 | 1.01 | 0.88 |
| 3/8 | PC326-BP* | 0.34 | PC326V-BP | 0.36 | 3/8 | 3.75 | 0.96 | 0.88 | 3.75 | 1.01 | 0.88 |
| 3/8 | PC328 | 0.36 | PC328V | 0.36 | 1/2 | 3.69 | 0.96 | 0.88 | 3.69 | 1.01 | 0.88 |
| 3/8 | PC328-BP* | 0.34 | PC328V-BP | 0.40 | 1/2 | 3.88 | 0.96 | 0.88 | 3.88 | 0.96 | 0.88 |
| 1/2 | PC524 | 0.74 | NA | - | 1/2 | 4.18 | 1.21 | 1.12 | | | - |
| 1/2 | PC524-BP* | 0.78 | NA | - | 1/2 | 4.28 | 1.21 | 1.12 | | | - |
| 1/2 | PC526 | 0.76 | NA | - | 3/4 | 4.56 | 1.21 | 1.12 | | | - |
| 1/2 | PC526-BP* | 0.80 | NA | - | 3/4 | 4.56 | 1.21 | 1.12 | | | - |

* Suffix BP in part number denotes Push-Lok hose barb. Without suffix denotes standard hose barb.
 Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.
 Valved Couplers can be used with either non-valved or valved nipples.





Couplers - 90 Degree



Push-Lok Hose Barb



Standard Hose Barb

| Body Size | Part No. Brass Non-Valved | Weight (lb.) | Part No. Brass Valved (silver sleeve) | Weight (lb.) | Hose I.D. | Overall Length | Wrench Flats | Largest Diameter | Overall Length | Wrench Flats | Largest Diameter |
|-----------|---------------------------|--------------|---------------------------------------|--------------|-----------|----------------|--------------|------------------|----------------|--------------|------------------|
| | | | | | | Non-Valved | | | Valved | | |
| 1/4 | PC214 | 0.13 | PC214AV | 0.14 | 1/4 | 1.78 | 0.56 | 0.71 | 1.98 | 0.63 | 0.71 |
| 1/4 | PC214-BP* | 0.14 | PC214AV-BP | 0.14 | 1/4 | 1.78 | 0.56 | 0.71 | 1.98 | 0.63 | 0.71 |
| 1/4 | PC215 | 0.13 | PC215AV | 0.14 | 5/16 | 1.78 | 0.56 | 0.71 | 1.98 | 0.63 | 0.71 |
| 1/4 | PC216 | 0.14 | PC216AV | 0.15 | 3/8 | 1.78 | 0.56 | 0.71 | 1.98 | 0.63 | 0.71 |
| 1/4 | PC216-BP* | 0.16 | PC216AV-BP | 0.17 | 3/8 | 1.80 | 0.56 | 0.71 | 2.00 | 0.63 | 0.71 |
| 3/8 | PC316 | 0.31 | PC316V | 0.31 | 3/8 | 2.78 | 0.88 | 0.96 | 2.78 | 0.88 | 0.96 |
| 3/8 | PC316-BP* | 0.37 | PC316V-BP | 0.37 | 3/8 | 2.78 | 0.88 | 0.96 | 2.78 | 0.88 | 0.96 |
| 3/8 | PC318 | 0.33 | PC318V | 0.35 | 1/2 | 2.78 | 0.88 | 0.96 | 2.78 | 0.88 | 0.96 |
| 3/8 | PC318-BP* | 0.37 | PC318V-BP | 0.39 | 1/2 | 2.80 | 0.88 | 0.96 | 2.80 | 0.88 | 0.96 |
| 1/2 | PC514 | 0.79 | NA | - | 1/2 | 3.50 | 1.12 | 1.21 | - | - | - |
| 1/2 | PC514-BP* | 0.83 | NA | - | 1/2 | 3.50 | 1.12 | 1.21 | - | - | - |
| 1/2 | PC516 | 0.80 | NA | - | 3/4 | 3.50 | 1.12 | 1.21 | - | - | - |
| 1/2 | PC516-BP* | 0.84 | NA | - | 3/4 | 3.50 | 1.12 | 1.21 | - | - | - |

* Suffix BP in part number denotes Push-Lok hose barb. Without suffix denotes standard hose barb.
 Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.
 Valved Couplers can be used with either non-valved or valved nipples.

Sub Assemblies and Individual Replacement Parts

Non-valved Sub-assembly (Brass Sleeve)



| Body Size | Part No. Brass Non-Valved | Weight (lb.) | Thread Size | Length | Largest Diameter | Wrench Flats |
|-----------|---------------------------|--------------|-------------|--------|------------------|--------------|
| 1/4 | P208-01A | 0.07 | 1/8-27 NPTF | 1.15 | 0.71 | 0.56 |
| 3/8 | P308-01A | 0.21 | 1/4-18 NPTF | 1.84 | 0.96 | 0.88 |
| 3/8 | P308-01A-HF | 0.20 | 3/8-18 NPTF | 1.84 | 0.96 | 0.88 |
| 1/2 | PC500 | 0.34 | 1/2-14 NPTF | 2.02 | 1.21 | 1.12 |

Valved Sub-assembly (Silver Colored Sleeve)



Bodies are designed for use with a valve and spring retained by a male pipe fitting (i.e. hose barb). Valve, valve spring, and end fitting are not included with sub-assembly and must be ordered separately.

| Body Size | Part No. Brass Valved | Weight (lb.) | Thread Size | Length | Largest Diameter | Wrench Flats |
|-----------|-----------------------|--------------|-------------|--------|------------------|--------------|
| 1/4 | P201-01A | 0.07 | 1/8-27 NPTF | 1.35 | 0.71 | 0.56 |
| 3/8 | P301-01A | 0.21 | 1/4-18 NPTF | 1.84 | 0.96 | 0.88 |



Sub Assemblies and Individual Replacement Parts

| Valves (for Valved Sub-assembly) | | | Valve Springs (for Valved Sub-assembly) | | |
|----------------------------------|-------------|----------|---|-------------|-----------|
| | | | | | |
| Body Size | Part Number | Material | Body Size | Part Number | Material |
| 1/4 | 3613001 | Brass | 1/4 | 7820123 | Stainless |
| 3/8 | P300-11S | Brass | 3/8 | P300-6 | Stainless |

| Replacement Seals (for both Valved and Non-valved) | | | | | |
|--|-------------|------------|-----------|-------------|----------------|
| | | | | | |
| Body Size | Part Number | Material | Body Size | Part Number | Material |
| 1/4 | P200-9A | * Silicone | 1/4 | P200-9AY | * Fluorocarbon |
| 3/8 | P300-9A | * Silicone | 3/8 | P300-9AY | * Fluorocarbon |
| 1/2 | P500-9A | * Silicone | 1/2 | P500-9AY | * Fluorocarbon |

* Note: Bulk seals are not returnable.

| Assembly Instruction Sheet (for all sizes & configurations) |
|---|
| Part Number |
| 9090065 |

B Hydraulics



B Hydraulics

Nipples - Female Pipe Thread



| Body Size | Part No. Brass | Weight (lb.) Brass | Part No. Steel | Weight (lb.) Steel | Thread Size | Overall Length | Exposed Length** | Wrench Flats | Largest Diameter |
|-----------|----------------|--------------------|----------------|--------------------|-------------|----------------|------------------|--------------|------------------|
| 1/4 | BPN251F | 0.02 | PN251F | 0.02 | 1/8-27 NPTF | 0.97 | 0.58 | 0.50 | 0.58 |
| 1/4 | BPN252F | 0.05 | PN252F | 0.04 | 1/4-18 NPTF | 1.28 | 0.89 | 0.63 | 0.72 |
| 1/4 | BPN253F | 0.08 | PN253F | 0.08 | 3/8-18 NPTF | 1.41 | 1.02 | 0.75 | 0.87 |
| 3/8 | BPN352F | 0.05 | PN352F | 0.05 | 1/4-18 NPTF | 1.48 | 0.88 | 0.63 | 0.72 |
| 3/8 | BPN353F | 0.07 | PN353F | 0.06 | 3/8-18 NPTF | 1.58 | 0.98 | 0.75 | 0.87 |

Nipples - Male Pipe Thread



| Body Size | Part No. Brass | Weight (lb.) Brass | Part No. Steel | Weight (lb.) Steel | Thread Size | Overall Length | Exposed Length** | Wrench Flats | Largest Diameter | Install Recess Diameter | Depth |
|-----------|----------------|--------------------|----------------|--------------------|--------------|----------------|------------------|--------------|------------------|-------------------------|-------|
| 1/4 | PN250 | 0.02 | - | - | 1/16-27 NPTF | 0.94 | 0.54 | 0.44 | 0.51 | 0.69 | 0.69 |
| 1/4 | PN251 | 0.02 | PN251S | 0.02 | 1/8-27 NPTF | 0.94 | 0.54 | 0.44 | 0.51 | 0.69 | 0.69 |
| 1/4 | PN252 | 0.03 | PN252S | 0.03 | 1/4-18 NPTF | 1.13 | 0.74 | 0.56 | 0.67 | 0.84 | 0.94 |
| 1/4 | PN253 | 0.05 | PN253S | 0.05 | 3/8-18 NPTF | 1.19 | 0.79 | 0.69 | 0.79 | 1.00 | 0.94 |
| 3/8 | PN352 | 0.04 | PN352S | 0.04 | 1/4-18 NPTF | 1.34 | 0.74 | 0.56 | 0.65 | 1.00 | 1.09 |
| 3/8 | PN353 | 0.06 | PN353S | 0.06 | 3/8-18 NPTF | 1.38 | 0.78 | 0.69 | 0.79 | 1.00 | 1.13 |
| 3/8 | PN354 | 0.12 | NA | - | 1/2-14 NPTF | 1.59 | 0.99 | 0.88 | 1.01 | 1.19 | 1.25 |
| 1/2 | PN553 | 0.12 | NA | - | 3/8-18 NPTF | 1.53 | 0.77 | 0.88 | 1.01 | 1.25 | 1.34 |
| 1/2 | PN554 | 0.11 | NA | - | 1/2-14 NPTF | 1.70 | 0.94 | 0.88 | 1.01 | 1.25 | 1.50 |
| 1/2 | PN556 | 0.16 | NA | - | 3/4-14 NPTF | 1.75 | 0.99 | 1.06 | 1.23 | 1.50 | 1.56 |

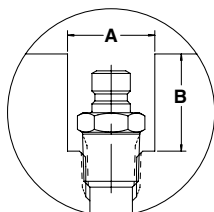
Valved Nipple



| Body Size | Part Number Brass | Thread Size | Overall Length | **Exposed Length | Largest Diameter | Wrench Flats | Weight (lb.) |
|-----------|-------------------|-------------|----------------|------------------|------------------|--------------|--------------|
| 1/4 | BPV252* | 1/4-18 NPTF | 1.21 | 0.82 | 0.67 | .56 | 0.03 |
| 3/8 | BPV353* | 3/8-18 NPTF | 1.48 | 0.88 | 0.79 | .69 | 0.07 |

*Valved Nipple must be used with Valved Coupler.

**This dimension represents the portion of the nipple that is exposed when inserted into a moldmate coupler.



| Install Recess Diameter | Depth |
|-------------------------|-------|
| 0.84 | 0.94 |
| 1.00 | 1.23 |



Nipples - Moldmate Extension



B Hydraulics

| Body Size | Part Number Brass | Weight (lb.) Brass | Thread Size | Overall Length | Length | Wrench Flats | Largest Diameter |
|-----------|-------------------|--------------------|--------------|----------------|--------|--------------|------------------|
| 1/4 | PN250-25 | 0.04 | 1/16-27 NPTF | 2.50 | .69 | 3/8 | 0.43 |
| 1/4 | PN250-40 | 0.06 | 1/16-27 NPTF | 4.00 | .81 | 3/8 | 0.43 |
| 1/4 | PN250-55 | 0.09 | 1/16-27 NPTF | 5.50 | .81 | 3/8 | 0.43 |
| 1/4 | PN251-25 | 0.06 | 1/8-27 NPTF | 2.50 | .69 | 7/16 | 0.51 |
| 1/4 | PN251-40 | 0.10 | 1/8-27 NPTF | 4.00 | 1.00 | 7/16 | 0.51 |
| 1/4 | PN251-55 | 0.13 | 1/8-27 NPTF | 5.50 | 1.00 | 7/16 | 0.51 |
| 1/4 | PN251-70 | 0.17 | 1/8-27 NPTF | 7.00 | 1.00 | 7/16 | 0.51 |
| 1/4 | PN251-85 | 0.21 | 1/8-27 NPTF | 8.50 | 1.00 | 7/16 | 0.51 |
| 1/4 | PN252-25 | 0.09 | 1/4-18 NPTF | 2.50 | .88 | 9/16 | 0.65 |
| 1/4 | PN252-40 | 0.15 | 1/4-18 NPTF | 4.00 | 1.25 | 9/16 | 0.65 |
| 1/4 | PN252-55 | 0.22 | 1/4-18 NPTF | 5.50 | 1.25 | 9/16 | 0.65 |
| 1/4 | PN252-70 | 0.27 | 1/4-18 NPTF | 7.00 | 1.25 | 9/16 | 0.65 |
| 1/4 | PN252-85 | 0.33 | 1/4-18 NPTF | 8.50 | 1.25 | 9/16 | 0.65 |
| 3/8 | PN351-25 | 0.07 | 1/8-27 NPTF | 2.50 | .88 | 9/16 | 0.65 |
| 3/8 | PN351-40 | 0.11 | 1/8-27 NPTF | 4.00 | 1.00 | 9/16 | 0.65 |
| 3/8 | PN351-55 | 0.15 | 1/8-27 NPTF | 5.50 | 1.00 | 9/16 | 0.65 |
| 3/8 | PN351-70 | 0.18 | 1/8-27 NPTF | 7.00 | 1.00 | 9/16 | 0.65 |
| 3/8 | PN351-85 | 0.22 | 1/8-27 NPTF | 8.50 | 1.00 | 9/16 | 0.65 |
| 3/8 | PN352-25 | 0.09 | 1/4-18 NPTF | 2.50 | .88 | 9/16 | 0.65 |
| 3/8 | PN352-40 | 0.15 | 1/4-18 NPTF | 4.00 | 1.25 | 9/16 | 0.65 |
| 3/8 | PN352-55 | 0.21 | 1/4-18 NPTF | 5.50 | 1.25 | 9/16 | 0.65 |
| 3/8 | PN352-70 | 0.27 | 1/4-18 NPTF | 7.00 | 1.25 | 9/16 | 0.65 |
| 3/8 | PN352-85 | 0.33 | 1/4-18 NPTF | 8.50 | 1.25 | 9/16 | 0.65 |
| 3/8 | PN353-25 | 0.12 | 3/8-18 NPTF | 2.50 | 1.00 | 11/16 | 0.79 |
| 3/8 | PN353-40 | 0.20 | 3/8-18 NPTF | 4.00 | 1.25 | 11/16 | 0.79 |
| 3/8 | PN353-55 | 0.28 | 3/8-18 NPTF | 5.50 | 1.25 | 11/16 | 0.79 |
| 3/8 | PN353-70 | 0.37 | 3/8-18 NPTF | 7.00 | 1.25 | 11/16 | 0.79 |
| 3/8 | PN353-85 | 0.45 | 3/8-18 NPTF | 8.50 | 1.25 | 11/16 | 0.79 |



DM Series are special purpose miniature couplings that offer double shut-off and push to connect operation in a small envelope. The 1/8 inch brass couplings are nickel plated with standard fluorocarbon seals.

Features:

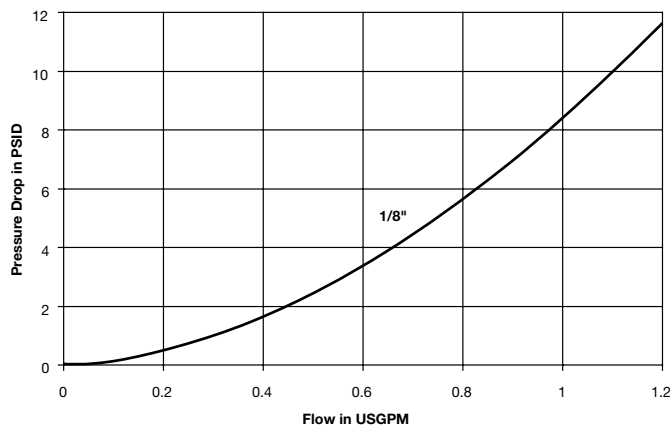
- Rated pressure is 250 psi
- Double shut-off valving
- Fluorocarbon seals
- Standard end configurations are female and male pipe thread

Applications:

- Dental equipment
- Lubrication lines
- Fluid transfer
- Coolant lines

Performance

DM Series (1/8")
 Test Fluid: Water

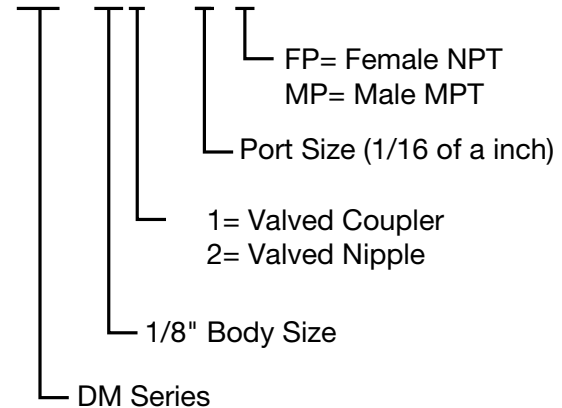


Specifications

| | |
|------------------------|-----------------|
| Body Size (in.) | 1/8 |
| Rated Pressure (psi) | 250 |
| Locking Device (balls) | 5 |
| Rated Flow (gpm) | 0.8 |
| Temperature Range | -15°F to +400°F |

How To Order

DM - 12 1 - 4 FP





Couplers - Female Pipe Thread



| Body Size | Part Number | Weight (lb.) | Thread Size | Overall Length | Largest Diameter | Wrench Flats |
|-----------|-------------|--------------|-------------|----------------|------------------|--------------|
| 1/8 | DM-121-2FP | 0.06 | 1/8-27 NPTF | 1.42 | 0.63 | 0.55 |
| 1/8 | DM-121-4FP | 0.10 | 1/4-18 NPTF | 1.81 | 0.78 | 0.67 |

Couplers - Male Pipe Thread



| Body Size | Part Number | Weight (lb.) | Thread Size | Overall Length | Largest Diameter | Wrench Flats |
|-----------|-------------|--------------|-------------|----------------|------------------|--------------|
| 1/8 | DM-121-2MP | 0.06 | 1/8-27 NPTF | 1.50 | 0.63 | 0.55 |
| 1/8 | DM-121-4MP | 0.07 | 1/4-18 NPTF | 1.61 | 0.63 | 0.55 |

Nipples - Female Pipe Thread



| Body Size | Part Number | Weight (lb.) | Thread Size | Overall Length | Exposed Length* | Largest Diameter | Wrench Flats |
|-----------|-------------|--------------|-------------|----------------|-----------------|------------------|--------------|
| 1/8 | DM-122-2FP | 0.05 | 1/8-27 NPTF | 1.56 | 1.03 | 0.63 | 0.55 |
| 1/8 | DM-122-4FP | 0.09 | 1/4-18 NPTF | 1.97 | 1.44 | 0.78 | 0.67 |

* This dimension represents the portion that is exposed when a nipple is inserted into a Parker DM Series coupler.

Nipples - Male Pipe Thread



| Body Size | Part Number | Weight (lb.) | Thread Size | Overall Length | Exposed Length* | Largest Diameter | Wrench Flats |
|-----------|-------------|--------------|-------------|----------------|-----------------|------------------|--------------|
| 1/8 | DM-122-2MP | 0.05 | 1/8-27 NPTF | 1.65 | 1.12 | 0.63 | 0.55 |
| 1/8 | DM-122-4MP | 0.06 | 1/4-18 NPTF | 1.77 | 1.24 | 0.63 | 0.55 |

* This dimension represents the portion that is exposed when a nipple is inserted into a Parker DM Series coupler.

When ordering Parker coupler bodies and nipples, please state the part number of each type of coupler body and each type of nipple desired. List coupler bodies and nipples as separate items rather than in combinations. Be sure to double check thread or hose sizes of items required.

Many of Parker's coupling products are available with unique non-standard options well suited to very specific applications. Examples of unusual end use applications might include: high temperatures (above 250° F), extremely caustic/corrosive solutions passing through the coupling, external/environmental corrosion situations, or other high wear and tear situations such as dragging the product along the ground. Please see the Fluid Compatibility Chart at the end of the catalog for a guide in selecting material for various media. It is always recommended that the Quick Coupling Division be contacted with any questions concerning specific product application needs.

Typically, a prefix or suffix is added to the base part number to specify a non-standard O-ring seal, or special option such as a sleeve lock. The Optional Seals Suffix chart illustrates the designations.

Optional Features

- Prefix "HD" for Heavy Duty Nipple
- Suffix "SL" for Coupler Sleeve-Lok
- Suffix "P" for Poppet Valve
- Suffix "BP" for Push-Lok Hose Barb
- Suffix "VA" for Valve Actuator

Optional Seals Suffix*

No suffix is required when ordering products with the standard Nitrile seals. When specifying an optional seal, refer to the following chart to determine the appropriate suffix.

| Coupling Series | Ethylene Propylene | Fluoro-carbon | Neoprene | Perfluoro-elastomer |
|--------------------------------------|---|---------------|----------|---------------------|
| 60 Series | W | Y | Z | *** |
| 6600 Series | W | Y | Z | *** |
| SM Series | E5 | E4 | E12 | *** |
| HP Series | E5 | E4 | E12 | *** |
| 4000 Series | W | Y | Z | N/A |
| 4200 Series | W | Y | Z | N/A |
| NS Series | E5 | E4 | N/A | *** |
| FF Series Std. is E4 ⁹ | E5 | E4 | N/A | *** |
| FH Series | E5 | E4 | N/A | *** |
| FS Series | E5 | STD | E12 | *** |
| 6100 Series | W | Y | Z | N/A |
| 5000 Series | W | Y | Z | N/A |
| 8200 Series | W | Y | Z | N/A |
| 9200 Series | W | Y | Z | N/A |
| 3000 Series | Available with Polyurethane only (no suffix needed) | | | |
| TC Series | Available with Fluorocarbon only (no suffix needed) | | | |
| 1141 Series | Available with Polyurethane only (no suffix needed) | | | |
| ST Series | W | Y | Z | |
| Water Service | Available with Nitrile only | | | |
| HO Series | E5 | E4 | E12 | N/A |
| Moldmate Series Std. is Silicone | N/A | Y** | N/A | N/A |

N/A = Not Available

STD = Standard (No Suffix Needed)

* To select proper seal materials, see Fluid Compatibility Chart in Appendices section, or contact your Parker Quick Coupling Distributor.

** Fluorocarbon seal available for use only with oil based media, not water glycol.

*** Contact QCD for Perfluoroelastomer seal options.



Description

These popular Quick Coupling Key Chains are constructed of anodized aluminum and are available in an array of colors. The original design, nickel plated version can be ordered as well.

| Part Number | Sleeve Color |
|-------------|-------------------------|
| KEY-BK | Black |
| KEY-BU | Blue |
| KEY-GR | Green |
| KEY-RD | Red |
| KEY-CL | Clear |
| KEY-NI | Old style nickel plated |