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Parker Hannifin Corporation
Quick Coupling Division
Minneapolis, MN 55427

Pneumatic Quick Couplings

Quick Coupling Division
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Single Shut-Off Couplings

Single Shut-Off couplings are primarily used for pneumatic applications, connecting air tools, hoses, or other implements to compressed air supplies. They are also used with other gases, and with the exception of the E-z-mate Series can be used with low pressure fluids. The coupler half contains a shut-off valve that is automatically opened when a mating nipple is inserted and automatically closes when the nipple is removed.

Parker Single Shut-Off couplings come in three basic designs: general purpose/manual connect, general purpose/push-to-connect, and special purpose.

The standard seal material for all Parker Single Shut-Off couplers is Nitrile. Ethylene Propylene, Viton™ (trademark of DUPONT), and Neoprene seals are available as options. See the comprehensive Fluid Compatibility Chart that provides guidelines for seal and body material selection. When there is need for further assistance in selecting the appropriate seal material, please consult factory.

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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	Coupler Style	Interchange	Body Size (in.)	Material B	SS	S*	P	Locking Mechanism	Std. Seal Material	Temp Range**	Rated Pressure
General Purpose											
10 Series	Manual	Tru-Flate	1/4 to 1/2	●		●		Ball	Buna-N (Nitrile)	-40° to +250° F	300 PSI
20 Series †	Manual	Industrial	1/4 to 1/2	●	●	●		Ball	Buna-N (Nitrile)	-40° to +250° F	300 PSI
50 Series	Manual	ARO 210	1/4	●		●		Ball	Buna-N (Nitrile)	-40° to +250° F	300 PSI
70 Series	Manual	Lincoln (long stem)	1/4	●				Ball	Buna-N (Nitrile)	-40° to +250° F	300 PSI
HF Series and HF No-Mar™	Push to Connect	Industrial	1/8 to 3/8	●		●		Ball	Buna-N (Nitrile)	-40° to +250° F	300 PSI
30 Series	Push to Connect	Industrial	1/4 to 3/4	●				Pawl	Buna-N (Nitrile)	-40° to +250° F	300 PSI
50A Series	Push to Connect	ARO 210	1/4	●				Ball	Buna-N (Nitrile)	-40° to +250° F	300 PSI
Twist Lock	Push to Connect	Schrader	1/4 to 1/2	●		●		Cam	Buna-N (Nitrile)	-10° to +165° F	250 PSI
Universal	Push to Connect	Industrial Tru-Flate ARO 210	1/4	●				Ball	Buna-N (Nitrile)	-40° to +250° F	150 PSI
Special Purpose											
CJ Series	Push to Connect	CEJN 342/343	1/4	●				Ball	Buna-N (Nitrile)	-40° to +250° F	150 PSI
E-z-mate Series & E-z-mate No-Mar™	Exhaust/ Push to Connect	Industrial	1/4 to 3/4			●		Ball	Buna-N (Nitrile)	-40° to +250° F	300 PSI
DM Series	Push to Connect/ Double Shut-Off	DM	1/8	●				Ball	Viton	-15° to +390° F	250 PSI

* Steel Parts are zinc plated with yellow chromate coating for extra corrosion resistance
** with Standard Seals
*** 1/8" couplings have no standard industry interface
CODE: B = Brass; SS = Stainless Steel; S = Steel; P = Plastic
† 20 Series Stainless Steel available in 1/4" body only

Ordering Information

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. 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 list at right illustrates the designations.

Please Note: Certain couplings series have additional "Special Order Information" which should be referred to in ordering those products. If applicable to the product, "Special Order Information" is found next to the Features and Specifications charts.

Coupling Material

Coupler

- Prefix "B" for Brass - available for 3/8 & 1/2" body sizes only
- Suffix "N" for Stainless Steel springs, locking balls and brass valves. (10, 20, 30, 50, and 70 series only)

Nipple

- Prefix "B" for Brass (Standard material is steel)

Seals*	Material	Suffix
Standard	Buna-N	none
Optional	Ethylene Propylene	W
Optional	Viton	Y
Optional	Neoprene	Z

Operation

- Suffix "SL" for coupler sleeve-lok (10, 20, 50, and 70 series only)
- Suffix "R" for grip-ring sleeve (10 and 20 series only)

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

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Popular Coupling Designs

Parker's Quick Coupling Division manufactures quick couplings to interchange with popular designs that have become accepted standards in the industry today. The actual size nipple chart below can be used to help select Parker Quick Couplings that will interchange with specific nipple designs and sizes.

10 Series (Tru-Flate Interchange)

1/2" Body Size

3/8" Body Size

1/4" Body Size

70 Series (Lincoln Interchange)

1/4" Body Size

20 Series, 30 Series, HF Series, E-z-mate (Industrial Interchange)

3/4" Body Size

1/2" Body Size

3/8" Body Size

1/4" Body Size

1/8" HF Series, DM Series

1/8" Body Size

50 Series (ARO-210 Interchange)

1/4" Body Size

Twist-Lock (Schrader Interchange)

1/4" Body Size

CJ Series (CEJN 342/343 Interchange)

1/4" Body Size

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Features

- Parker Industrial Interchange § nipples are for use with any Parker 20 Series, HF Series, 30 Series, Universal, HF or E-z-mate couplers.
- Parker Industrial Interchange § nipples are interchangeable with similar nipples manufactured by other quick coupling manufacturers conforming to MIL-C4109 or ANSI/(NFPA) T3.20.14-1990 requirements.
- Hardened wear points** and solid barstock construction provide long service life.
- Precision machined surfaces and hardened load-bearing areas** resist the effects of mechanical shock in the most rugged applications.
- The 20 Series, HF Series, 30 Series, Universal and E-z-mate couplers that mate with the Industrial Interchange § nipples are located in their respective coupling "Type" (e.g. Manual Type) as noted in the Table of Contents.

** steel nipples only

Female Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/4	–	H1C	1/8-27	1.38	0.61	0.50	0.58	0.03
1/4	BH3C	–	1/4-18	1.56	0.80	0.62	0.72	0.05
1/4	–	H3C	1/4-18	1.56	0.80	0.62	0.72	0.05
1/4	–	H3C-E	3/8-18	1.60	0.83	0.81	0.94	0.08
3/8	–	H1E	1/4-18	1.60	0.65	0.62	0.72	0.06
3/8	BH3E	–	3/8-18	1.69	0.74	0.81	0.94	0.10
3/8	–	H3E	3/8-18	1.69	0.74	0.81	0.94	0.09
3/8	–	H3E-F	1/2-14	1.84	0.90	1.00	1.16	0.13
1/2	–	H1F	3/8-18	2.03	0.79	0.81	0.94	0.12
1/2	BH3F	–	1/2-14	2.25	1.01	1.00	1.16	0.19
1/2	–	H3F	1/2-14	2.25	1.01	1.00	1.16	0.17
1/2	–	H3F-G	3/4-14	2.38	1.13	1.25	1.44	0.26
3/4	–	H3G-F	1/2-14	2.22	1.06	1.31	1.52	0.23
3/4	–	H3G	3/4-14	2.22	1.06	1.31	1.52	0.34
3/4	–	H3G-J	1-11 1/2	2.41	1.25	1.56	1.80	0.47

*This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

Male Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/4	–	H0C	1/8-27	1.56	0.80	0.50	0.58	0.05
1/4	BH2C	–	1/4-18	1.72	0.95	0.56	0.65	0.06
1/4	–	H2C	1/4-18	1.72	0.95	0.56	0.65	0.05
1/4	–	H2C-E	3/8-18	1.81	1.05	0.69	0.80	0.07
3/8	–	H00E	1/8-27	1.72	0.77	0.62	0.72	0.08
3/8	–	H0E	1/4-18	1.88	0.93	0.62	0.72	0.08
3/8	BH2E	–	3/8-18	1.91	0.96	0.69	0.80	0.09
3/8	–	H2E	3/8-18	1.91	0.96	0.69	0.80	0.09
3/8	–	H2E-F	1/2-14	2.12	1.18	0.88	1.02	0.15
1/2	–	H0F	3/8-18	2.31	1.07	0.69	0.79	0.16
1/2	BH2F	–	1/2-14	2.48	1.22	0.88	1.01	0.18
1/2	–	H2F	1/2-14	2.48	1.22	0.88	1.01	0.16
1/2	–	H2F-G	3/4-14	2.53	1.29	1.13	1.30	0.24
3/4	–	H2G-F	1/2-14	2.32	1.16	1.00	1.16	0.22
3/4	BH2G	–	3/4-14	2.38	1.22	1.06	1.22	0.28
3/4	–	H2G	3/4-14	2.38	1.22	1.06	1.22	0.25
3/4	–	H2G-J	1-11 1/2	2.56	1.40	1.31	1.52	0.36

*This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

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Standard Hose Barb

Body Size (in.)	Part No. Brass	Part No. Steel	Hose I.D.	Dimension (in.) Overall Length	Exposed Length*	Largest Diameter	Wt. (LB.) P/Piece
				D	E	G	
1/4	–	H8C	1/4	2.09	1.33	0.55	0.04
1/4	–	H8C-D	5/16	2.09	1.33	0.55	0.04
1/4	–	H9C	3/8	2.09	1.33	0.55	0.05
3/8	–	H5E	3/8	2.19	1.24	0.62	0.07
3/8	–	H6E	1/2	2.19	1.52	0.68	0.08
1/2	–	H4F	3/8	2.53	1.29	0.68	0.10
1/2	–	H5F	1/2	2.53	1.57	0.68	0.11
1/2	–	H5F-G	3/4	3.06	1.91	0.93	0.18
3/4	–	H5G-F	1/2	2.47	1.59	0.93	0.19
3/4	BH5G	–	3/4	3.00	2.28	0.93	0.25
3/4	–	H5G	3/4	3.00	2.28	0.93	0.23
3/4	–	H5G-J	1	3.24	2.28	1.24	0.36

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

Push-Lok Hose Barb**

Body Size (in.)	Part No. Brass	Part No. Steel	Hose I.D.	Dimension (in.) Overall Length	Exposed Length*	Largest Diameter	Wt. (LB.) P/Piece
				D	E	G	
1/4	BH8CP	–	1/4	1.93	1.16	0.69	0.04
1/4	–	H8CP	1/4	1.93	1.16	0.69	0.03
1/4	–	H9CP	3/8	2.08	1.31	0.86	0.05
3/8	–	H4EP	1/4	2.02	1.08	0.69	0.06
3/8	–	H5EP	3/8	2.17	1.23	0.86	0.07
3/8	–	H6EP	1/2	2.31	1.37	0.97	0.09
1/2	–	H4FP	3/8	2.52	1.27	0.86	0.11
1/2	–	H5FP	1/2	2.66	1.42	0.97	0.11

*This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

**Push-Lok hose barbs are designed for use with Parker push-lok hose and do not require clamps.

Reusable Hose Fittings

Body Size (in.)	Part No. Steel	Hose I.D.	Hose O.D.	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/4	H8C-C3	1/4	1/2	2.19	1.42	0.69	0.79	0.10
1/4	H8C-C5	1/4	9/16	2.19	1.42	0.75	0.87	0.10
1/4	H8C-C6	1/4	5/8	2.19	1.42	0.81	0.94	0.10

*This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 20 Series coupler.

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Component Part Features

1. Precision machining, hardened wear points* and solid barstock construction provide long life even in rugged applications.
2. Tubular valve with large flow passages delivers high air flow with minimal pressure drop for efficient performance. The tubular design provides 360° support for both the valve seal and the mating nipple for long service life.
3. Precision molded seals form a “bubble tight” seal for reliable operation within rated working pressures. Standard seal material is Nitrile (Buna-N). Ethylene Propylene, Viton and Neoprene seals are available as options.
4. Proven ball locking mechanism with large numbers of hardened steel or stainless steel locking balls evenly distribute the load to resist wear and provide positive connections. The ball locking mechanism also provides accurate alignment and allows a swiveling action to reduce hose torque.
5. Integral sleeve guard protects the sleeve and resists accidental disconnects by allowing the coupling to ride over obstructions without the sleeve being retracted.
6. Knurling and/or grooves on sleeve provide a gripping surface for ease of operation.
7. Wide range of body sizes, materials, options and end terminations are available to meet specific needs. Parker sleeve type couplings are available with male pipe thread, female pipe thread, standard hose barb, push-lok hose barb**, and reusable hose fitting ends. Standard body materials are brass in 1/4" body size and steel in larger sizes.
8. Parker sleeve type couplings are available in interchanges for industrial interchange, Tru-flate, ARO 210 and Lincoln long stem design nipples.

* Steel nipples only.
** Push-lok hose barbs are designed for use with Parker Push-lok hose and do not require clamps.

Features

- Parker 10 Series couplings are the original Tru-Flate design.
- This unique design has been field proven as a long lasting, high performance coupling especially when used with pneumatic tools.
- Standard seals are Buna-N (Nitrile). See the Coupling Selection and Ordering Information Guide at the beginning of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.

Specifications

Body Size	1/4	3/8	1/2
Rated Pressure (PSI)	300	300	300
Temperature Range (std seals)	-40° to +250° F.		
Locking Device	4 balls	8 balls	8 balls
Vacuum Data (inches Hg)			
Disconnected (coupler only)	**Not recommended**		
Connected	27.4	27.4	27.4

Special Order Information

The standard 1/4" 10 Series features a brass coupler with a steel valve. Larger sizes include an all steel construction with brass also available. To order a 3/8" or 1/2" coupler with a brass body and steel sleeve, add the prefix *"B"* to the steel part number, Example: B15.

Add the suffix *"N"* as well as the *"B"* prefix to order an all brass coupler with stainless steel locking balls and springs, Example: B15N.

All-brass couplings should be used to avoid corrosion from moisture. Consult factory for specific recommendations.

Available with Sleeve-Lok (See Coupler Options). To order, add the suffix *"-SL"* to the part number, Example: 15-SL.

Available for 1/4" 10 Series couplers is a Grip-Ring Sleeve (See Coupler Options). To order add the suffix *"R"* to the part number, Example: B13R.

Performance

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Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length A	Hex Size B	Largest Diameter C	Wt. (LB) P/Piece
1/4	B13A	–	1/8-27	1.83	0.75	0.88	0.19
1/4	B13	–	1/4-18	1.83	0.75	0.88	0.19
1/4	B13E	–	3/8-18	1.95	0.81	0.94	0.31
3/8	–	15C	1/4-18	2.22	0.88	1.06	0.30
3/8	B15	–	3/8-18	2.28	0.88	1.06	0.34
3/8	–	15	3/8-18	2.28	0.88	1.06	0.29
3/8	–	15F	1/2-14	2.55	1.00	1.16	0.46
1/2	–	17E	3/8-18	2.74	1.00	1.19	0.46
1/2	B17	–	1/2-14	2.96	1.00	1.19	0.50
1/2	–	17	1/2-14	2.96	1.00	1.19	0.56
1/2	–	17G	3/4-14	3.19	1.25	1.44	0.20

Male Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length A	Hex Size B	Largest Diameter C	Wt. (LB) P/Piece
1/4	B12A	–	1/8-27	1.89	0.75	0.88	0.17
1/4	B12	–	1/4-18	2.05	0.75	0.88	0.18
1/4	B12E	–	3/8-18	2.08	0.75	0.88	0.19
3/8	–	14C	1/4-18	2.36	0.88	1.06	0.26
3/8	B14	–	3/8-18	2.39	0.88	1.06	0.24
3/8	–	14	3/8-18	2.39	0.88	1.06	0.27
3/8	–	14F	1/2-14	2.55	0.88	1.06	0.28
1/2	–	16E	3/8-18	2.93	1.00	1.19	0.42
1/2	B16	–	1/2-14	3.08	1.00	1.19	0.41
1/2	–	16	1/2-14	3.08	1.00	1.19	0.45
1/2	–	16G	3/4-14	3.21	1.13	1.30	0.50

Standard Hose Barb

Body Size (in.)	Part No. Brass	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length A	Hex Size B	Largest Diameter C	Wt. (LB) P/Piece
1/4	B10-3B	–	1/4	2.49	0.75	0.88	0.18
1/4	B10-4B	–	5/16	2.49	0.75	0.88	–
1/4	B10-5B	–	3/8	2.49	0.75	0.88	0.18
3/8	–	14-5B	3/8	2.86	0.88	1.06	0.26
3/8	–	14-6B	1/2	3.08	0.88	1.06	0.27
1/2	–	16-5B	3/8	3.37	1.00	1.19	0.41
1/2	–	16-6B	1/2	3.62	1.00	1.19	0.43
1/2	–	16-7B	3/4	3.96	1.00	1.19	0.48

Push-Lok Hose Barb*

Body Size (in.)	Part No. Brass	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length A	Hex Size B	Largest Diameter C	Wt. (LB) P/Piece
1/4	B10-3BP	-	1/4	2.32	0.75	0.88	0.19
1/4	B10-5BP	-	3/8	2.47	0.75	0.88	0.19
3/8	–	14-5BP	3/8	2.88	0.88	1.06	0.26
1/2	–	16-5BP	3/8	3.35	1.00	1.19	0.40
1/2	–	16-6BP	1/2	3.46	1.00	1.19	0.43

* Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

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Nipples

Female Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				D	E	F	G	
1/4	–	1C	1/8-27	1.28	0.55	0.50	0.58	0.05
1/4	B3C	–	1/4-18	1.47	0.74	0.62	0.72	0.05
1/4	–	3C	1/4-18	1.47	0.74	0.62	0.72	0.05
1/4	–	3C-E	3/8-18	1.50	0.77	0.81	0.94	0.07
3/8	–	1E	1/4-18	1.60	0.67	0.62	0.72	0.07
3/8	–	3E	3/8-18	1.68	0.77	0.81	0.94	0.10
1/2	–	1F	3/8-18	2.05	0.83	0.81	0.94	0.13
1/2	–	3F	1/2-14	2.27	1.05	1.00	1.16	0.18
1/2	–	H3F-G	3/4-14	2.38	1.13	1.25	1.44	0.26

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 10 Series coupler.

Male Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				D	E	F	G	
1/4	–	0C	1/8-27	1.47	0.74	0.50	0.58	0.04
1/4	B2C	–	1/4-18	1.62	0.89	0.56	0.65	0.06
1/4	–	2C	1/4-18	1.62	0.89	0.56	0.65	0.05
1/4	–	2C-E	3/8-18	1.72	0.99	0.69	0.80	0.05
3/8	–	0E	1/4-18	1.88	0.95	0.62	0.72	0.08
3/8	–	2E	3/8-18	1.90	0.98	0.69	0.80	0.09
1/2	–	0F	3/8-18	2.33	1.12	0.69	0.79	0.13
1/2	–	2F	1/2-14	2.48	1.27	0.88	1.01	0.17
1/2	–	H2F-G	3/4-14	2.53	1.29	1.13	1.30	0.24

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 10 Series coupler.

Standard Hose Barb

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Exposed Length*	Largest Diameter	Wt. (LB) P/Piece
			D	E	G	
1/4	8C	1/4	2.00	1.27	0.55	0.04
1/4	9C	3/8	2.00	1.27	0.55	0.05
3/8	5E	3/8	2.19	1.27	0.63	0.07
1/2	H4F	3/8	2.53	1.29	0.69	0.08
1/2	5F	1/2	2.81	1.60	0.81	0.11
1/2	H5F-G	3/4	3.16	1.91	0.94	0.18

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 10 Series coupler.

Push-Lok Hose Barb**

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Exposed Length*	Largest Diameter	Wt. (LB) P/Piece
			D	E	G	
1/4	8CP	1/4	1.84	1.10	0.69	0.04
1/4	9CP	3/8	1.98	1.25	0.86	0.05
3/8	5EP	3/8	2.17	1.25	0.86	0.08
1/2	H4FP	3/8	2.52	1.27	0.86	0.11
1/2	H5FP	1/2	2.66	1.42	0.97	0.11

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 10 Series coupler.

** Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

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Features

- Parker 20 Series sleeve type, 30 Series, HF Series E-z-mate Series and Universal couplers accept industrial interchange nipples manufactured by Parker and other manufacturers.
- § Denotes Industrial Interchange nipples. See Table of Contents for those nipples used with 20 Series couplers.
- Standard seals are Buna-N (Nitrile). See the Coupling Selection and Ordering Information Guide at the beginning of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.
- Push-To-Connect versions available in the following series: HF, 30, and E-z-mate.

Specifications

Body Size	1/4	3/8	1/2
Rated Pressure (psi)	300	300	300
Temperature Range (std seals)	-40° to +250° F.		
Locking Device	4 balls	8 balls	8 balls
Vacuum Data (inches Hg)			
Disconnected (coupler only)	**Not recommended**		
Connected	27.4	27.4	27.4

Special Order Information

The standard 1/4" 20 Series is a brass coupler with a steel valve. The larger sizes are an all steel construction with brass available as an option. To order a 3/8" or 1/2" body size coupler with a brass body and a steel sleeve and valve, add the prefix *"B"* to the steel part number. Example: B16.

Add the suffix *"N"* as well as the *"B"* prefix to order an all brass coupler with stainless steel locking balls and springs, Example: B25N.

All-brass couplings should be used to avoid corrosion from moisture. Consult factory for specific recommendations.

Available with Sleeve-Lok (See Coupler Options). To order, add *"-SL"* as a suffix to the part number, Example: 25-SL.

Available for 1/4" 20 Series couplers is a Grip-Ring sleeve (See Coupler Options). To order, add the suffix *"R"* to the part number, Example: B23R.

Operation

Sleeve type couplings are widely used to connect air and low pressure fluid lines.

Their compact and economical design uses a ball locking mechanism consisting of captive steel balls that engage the locking groove on the mating nipple. The sliding spring loaded sleeve on the coupler must be manually retracted in order to connect or disconnect the nipple. It is easy to do, but two hands are normally required.

Common applications include: compressed air, water, grease, paint, limited vacuum and limited gases.

Parker 10, 20, 50 and 70 Series couplings are sleeve type Single Shut-Off couplings.

Performance

Quick Coupling Division
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Minneapolis, MN 55427

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimension (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				A	B	C	
1/4	B23A	–	1/8-27	1.83	0.75	0.88	0.20
1/4	B23	–	1/4-18	1.83	0.75	0.88	0.19
1/4	B23E	–	3/8-18	1.95	0.81	0.94	0.20
3/8	–	25C	1/4-18	2.22	0.88	1.06	0.30
3/8	B25	–	3/8-18	2.28	0.88	1.06	0.31
3/8	–	25	3/8-18	2.28	0.88	1.06	0.32
3/8	–	25F	1/2-14	2.55	1.00	1.16	0.34
1/2	–	17E	3/8-18	2.74	1.00	1.19	0.46
1/2	B17	–	1/2-14	2.96	1.00	1.19	0.50
1/2	–	17	1/2-14	2.96	1.00	1.19	0.46
1/2	–	17G	3/4-14	3.19	1.25	1.44	0.56

Male Pipe Thread

Body Size (in.)	Part No. Brass	Part No. Steel	Thread Size NPTF	Dimension (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				A	B	C	
1/4	B22A	–	1/8-27	1.89	0.75	0.88	0.18
1/4	B22	–	1/4-18	2.05	0.75	0.88	0.18
1/4	B22E	–	3/8-18	2.08	0.75	0.88	0.19
3/8	–	24C	1/4-18	2.36	0.88	1.06	0.26
3/8	B24	–	3/8-18	2.39	0.88	1.06	0.29
3/8	–	24	3/8-18	2.39	0.88	1.06	0.27
3/8	–	24F	1/2-14	2.55	0.88	1.06	0.29
1/2	–	16E	3/8-18	2.93	1.00	1.19	0.42
1/2	B16	–	1/2-14	3.08	1.00	1.19	0.47
1/2	–	16	1/2-14	3.08	1.00	1.19	0.45
1/2	–	16G	3/4-14	3.21	1.13	1.30	0.50

Note

§ Denotes Industrial Interchange nipples. See Table of Contents for those nipples used with 20 Series couplers.

Couplers

Standard Hose Barb

Body Size (in.)	Part No. Brass	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				A	B	C	
1/4	B20-3B	–	1/4	2.49	0.75	0.88	0.18
1/4	B20-4B	–	5/16	2.49	0.75	0.88	0.18
1/4	B20-5B	–	3/8	2.49	0.75	0.88	0.18
3/8	–	24-5B	3/8	2.86	0.88	1.06	0.27
3/8	–	24-6B	1/2	3.08	0.88	1.06	0.28
1/2	–	16-5B	3/8	3.37	1.00	1.19	0.41
1/2	–	16-6B	1/2	3.62	1.00	1.19	0.43
1/2	–	16-7B	3/4	3.96	1.00	1.19	0.48

Push-Lok Hose Barb*

Body Size (in.)	Part No. Brass	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				A	B	C	
1/4	B20-3BP	–	1/4	2.32	0.75	0.88	0.18
1/4	B20-5BP	–	3/8	2.47	0.75	0.88	0.19
3/8	–	24-5BP	3/8	2.88	0.88	1.06	0.27
1/2	–	16-5BP	3/8	3.35	1.00	1.19	0.40
1/2	–	16-6BP	1/2	3.46	1.00	1.19	0.43

* Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Reusable Hose Fitting

Body Size (in.)	Part No. Brass	Part No. I.D.	Hose O.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				A	B	C	
1/4	B22-C3	1/4	1/2	2.45	0.69	0.88	0.24
1/4	B22-C5	1/4	9/16	2.45	0.75	0.88	0.24
1/4	B22-C6	1/4	5/8	2.45	0.81	0.94	0.24s

Note

§ Denotes Industrial Interchange nipples. See Table of Contents for those nipples used with 20 Series couplers.

Specification

Body Size	1/4
Rated Pressure (PSI)	300
Temperature Range (std seals)	-40° to +250° F.
Locking Device	4 balls

Performance

Features

- Parker 50 Series couplings are interchangeable with ARO's 210 series couplings.
- 50 Series couplings have a full opening tubular valve for maximum flow and a built-in sleeve guard to minimize accidental disconnect.
- The 50 Series is only available in 1/4" body size.
- 50 Series couplings have all brass bodies and steel valves.
- Standard seal material is nitrile. See the Coupling Selection and Ordering Information guide at the beginning of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.
- Push-to-Connect version available. See 50A Series.

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B53	1/4-18	1.86	0.75	0.88	0.20
1/4	B53E	3/8-18	1.92	0.81	0.94	0.20

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B52	1/4-18	2.08	0.75	0.88	0.19
1/4	B52E	3/8-18	2.11	0.75	0.88	0.20

Push-Lok Hose Barb*

Body Size (in.)	Part No. Brass	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B50-3BP	1/4	2.35	0.75	0.88	0.19
1/4	B50-5BP	3/8	2.50	0.75	0.88	0.20

* Push-Lok hose barbs are designed for use with Push-Lok hose and do not require clamps.

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Nipples

Female Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/4	A3C	1/4-18	1.47	0.66	0.62	0.72	0.04

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 50 Series coupler.

Male Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/4	A2C	1/4-18	1.62	0.82	0.56	0.65	0.05

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 50 Series coupler.

Standard Hose Barb

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Exposed Length*	Largest Diameter	Wt. (LB) P/Piece
			D	E	G	
1/4	A8C	1/4	2.00	1.19	0.55	0.03

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 50 Series coupler.

Push-Lok Hose Barb**

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Exposed Length*	Largest Diameter	Wt. (LB) P/Piece
			D	E	G	
1/4	A8CP	1/4	1.84	1.03	0.69	0.03

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 50 Series coupler.

** Push-Lok hose barbs are designed for use with Parker push-lok hose and do not require clamps.

Specifications

Body Size	1/4
Rated Pressure (psi)	300
Temperature Range (std seals)	-40° to +250° F.
Locking Device	4 balls

Performance

Features

- Parker 70 Series couplings are interchangeable with Lincoln's "Long Stem" series couplings.
- 70 Series couplings have a full opening tubular valve for maximum flow and a built-in sleeve guard to minimize accidental disconnect.
- The 70 Series is only available in 1/4" body size.
- 70 Series couplings have all brass bodies and steel valves.
- Standard seal material is Buna-N (Nitrile). See the Coupling Selection and Ordering Information Guide at the beginning of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B73	1/4-18	2.39	0.75	0.88	0.28

Couplers

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B72	1/4-18	2.61	0.75	0.88	0.27

Nipples

Female Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/4	L3C	1/4-18	2.10	0.77	0.62	0.72	0.05

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 70 Series coupler.

Male Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/4	L2C	1/4-18	2.25	0.92	0.56	0.65	0.06

* This dimension represents portion of nipple that is exposed when nipple is inserted in a Parker 70 Series coupler.

Component Part Features

1. Precision machining, hardened wear points* and solid bar stock construction provide long life even in rugged applications.
2. Tubular valve with large flow passages delivers high flow with minimum pressure drop for efficient performance. The tubular design provides 360° support for both the valve seal and the mating nipple for long service life.
3. Precision molded seals form a “bubble tight” seal for reliable operation within rated working pressures. Standard seal material is Nitrile (Buna-N). Ethylene Propylene, Viton and Neoprene are available as options.
4. Proven ball locking mechanism with large numbers of hardened steel or stainless steel locking balls evenly distribute the load to resist wear and provide positive connections. The ball locking mechanism also provides accurate alignment and allows a swiveling action to reduce hose torque.
5. Integral sleeve guard protects the sleeve and resists accidental disconnects by allowing the coupling to ride over obstructions without the sleeve being retracted.
6. Knurling on the sleeve provides a gripping surface for ease of operation.
7. Wide range of end configurations are available to meet specific needs. Parker push type couplings are available with male pipe thread, female pipe thread, standard hose barb, and Push Lok hose barb**.
8. Parker HF Series couplings mate with industrial interchange design nipples. See Table of Contents.
9. Push-to-connect design permits one-handed connection when the coupler half is rigidly mounted.

* steel nipples only

** Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Specifications

Body Size	1/8	1/4	3/8
Rated Pressure (psi)	250	300	300
Temperature Range (std seals)	-40° to +250°F		
Locking Device	5 balls	4 balls	6 balls
Vacuum Data (inches Hg)	—	—	—
Disconnected (coupler only)	**Not recommended**		
Connected	—	27.4	28.2

Features

- Parker HF Series Pneumatic Quick Couplings offer an alternative to traditional industrial interchange couplers. The quality and durability you have come to expect from Parker 20 Series couplers, combined with a slim profile, push-to-connect design. The result is an easy to use general purpose pneumatic coupler suitable for use in a variety of applications.
- Parker HF couplers feature sleeve guards to protect against accidental disconnection.
- Standard couplers feature solid brass construction, high flow valving, corrosion resistant valves, and stainless steel locking balls and valve spring.
- Heavy Duty Couplers* featuring heat treated, solid steel bodies and sleeves for added strength and durability.
- Parker HF couplers accept Industrial Interchange nipples* manufactured by Parker and other manufacturers. See table of contents.

* 1/8" couplings have no standard industry interface.

1/8" couplings do not incorporate an integral sleeve guard and are unavailable in the Heavy Duty version.

Performance

How To Order

HF 3 04 F - 4

- Port Size (1/16 of a inch)
- Port Configuration
  - F - Female
  - M - Male
  - PL - Push Lok
  - HB - Hose Barb
- Body Size (1/16 of a inch)
- 3 - Standard Brass Coupler
- HF Series Coupler

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1/8" Body Size Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/8	HF302F-2	1/8-27	1.42	0.55	0.63	.06
1/8	HF302F-4	1/4-18	1.81	0.67	0.63	.10

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/8	HF302M-2	1/8-27	1.50	0.55	0.63	.06
1/8	HF302M-4	1/4-18	1.61	0.55	0.63	.07

1/8" Body Size Nipples

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/8	HF702F-2	1/8-27	1.14	.61	0.55	0.63	.04
1/8	HF702F-4	1/4-18	1.34	.81	0.67	0.78	.07

*** This dimension represents the portion that is exposed when nipple is inserted in a Parker HF series coupler.**

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/8	HF702M-2	1/8-27	1.06	.53	0.43	0.51	.03
1/8	HF702M-4	1/4-18	1.20	.67	0.55	0.63	.04

*** This dimension represents the portion that is exposed when nipple is inserted in a Parker HF series coupler.**

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1/4" and 3/8" Body Size Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF304F-4	1/4-18	2.18	0.81	0.99	0.26
1/4	HF304F-6	3/8-18	2.22	0.81	0.99	0.27
3/8	HF306F-4	1/4-18	2.33	0.94	1.07	0.33
3/8	HF306F-6	3/8-18	2.33	0.94	1.07	0.31
3/8	HF306F-8	1/2-14	2.49	1.00	1.07	0.35

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF304M-4	1/4-18	2.36	0.81	0.99	0.25
1/4	HF304M-6	3/8-18	2.36	0.81	0.99	0.26
3/8	HF306M-4	1/4-18	2.49	0.94	1.07	0.32
3/8	HF306M-6	3/8-18	2.52	0.94	1.07	0.30
3/8	HF306M-8	1/2-14	2.68	0.94	1.07	0.33

Push-Lock Hose Barb

Body Size (in.)	Part No. Brass	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF304PL-4	1/4	2.77	0.81	0.99	0.26
1/4	HF304PL-6	3/8	2.77	0.81	0.99	0.27
3/8	HF306PL-6	3/8	3.02	0.94	1.07	0.33
3/8	HF306PL-8	1/2	3.07	0.94	1.07	0.31

Standard Hose Barb

Body Size (in.)	Part No. Brass	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF304HB-4	1/4	2.86	0.81	0.99	0.26
1/4	HF304HB-6	3/8	2.86	0.81	0.99	0.27
3/8	HF306HB-6	3/8	3.02	0.94	1.07	0.31
3/8	HF306HB-8	1/2	3.02	0.94	1.07	0.34

Heavy Duty Couplers

Female Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF404F-4	1/4-18	2.18	0.81	0.99	0.25
1/4	HF404F-6	3/8-18	2.22	0.81	0.99	0.26
3/8	HF406F-4	1/4-18	2.33	0.94	1.07	0.33
3/8	HF406F-6	3/8-18	2.33	0.94	1.07	0.30
3/8	HF406F-8	1/2-14	2.49	1.00	1.07	0.35

Male Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF404M-4	1/4-18	2.36	0.81	0.99	0.24
1/4	HF404M-6	3/8-18	2.36	0.81	0.99	0.25
3/8	HF406M-4	1/4-18	2.49	0.94	1.07	0.32
3/8	HF406M-6	3/8-18	2.52	0.94	1.07	0.30
3/8	HF406M-8	1/2-14	2.68	0.94	1.07	0.33

Push-Lock Hose Barb

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF404PL-4	1/4	2.77	0.81	0.99	0.25
1/4	HF404PL-6	3/8	2.77	0.81	0.99	0.26
3/8	HF406PL-6	3/8	3.02	0.94	1.07	0.33
3/8	HF406PL-8	1/2	3.07	0.94	1.07	0.31

Standard Hose Barb

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	HF404HB-4	1/4	2.86	0.81	0.99	0.24
1/4	HF404HB-6	3/8	2.86	0.81	0.99	0.25
3/8	HF406HB-6	3/8	3.02	0.94	1.07	0.31
3/8	HF406HB-8	1/2	3.02	0.94	1.07	0.34

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Specifications

Body Size	1/4
Rated Pressure (psi)	300
Temperature Range (std seals)	-40° to +250° F
Locking Device	4 balls
Vacuum Data (inches Hg)	
Disconnected (coupler only)	**Not Recommended**
Connected	27.4

Performance

Description

Parker HF NoMar™ pneumatic couplers offer all the features of our standard HF Series products, combined with a non-marking, oil resistant, polyurethane cover and port protector. Features include: slim profile, push-to-connect operation, industrial interchange profile, and brass construction with corrosion resistant components.

Body Size (in.)	Part No.	Material	Port Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt.(LB) P/Piece
Female Pipe Thread				**A**	**B**	**C**	
1/4"	HFN304F-4	Brass	1/4-18 NPTF	2.18	.81	1.07	0.29
1/4"	HFN304F-6	Brass	3/8-18 NPTF	2.22	.81	1.07	0.30
Male Pipe Thread				**A**	**B**	**C**	
1/4"	HFN304M-4	Brass	1/4-18 NPTF	2.36	.81	1.07	0.28
1/4"	HFN304M-6	Brass	3/8-18 NPTF	2.36	.81	1.07	0.29
Push-Lok Hose Barb				**A**	**B**	**C**	
1/4"	HFN304PL-4	Brass	1/4" Hose I.D.	2.77	.81	1.07	0.29
1/4"	HFN304PL-6	Brass	3/8" Hose I.D.	2.77	.81	1.07	0.30
Standard Hose Barb				**A**	**B**	**C**	
1/4"	HFN304HB-4	Brass	1/4" Hose I.D.	2.86	.81	1.07	0.29
1/4"	HFN304HB-6	Brass	3/8" Hose I.D.	2.86	.81	1.07	0.30
NoMar™ Fast-Stor®				**A**	**B**	**C**	
1/4"	HFN304NM-4	Brass	1/4" Hose I.D.	2.44	.81	1.07	.031

*Use in conjunction with Parflex Division Urethane Fast-Stor® Coils.
**Overall length with hose shell assembled is 3.7 on all port options.

How To Order

HF N 3 04 F - 4

- 4 — Port Size (1/16 of a inch)
- F — Port Configuration
  - F - Female Pipe
  - M - Male Pipe
  - PL - Push Lok
  - HB - Hose Barb
  - NM - NoMar™ Polyurethane Fast-Stor® Tubing
- 04 — Body Size (1/16 of a inch)
- 3 — 3 - Standard Brass Coupler
- N — NoMar™ - Soft Sided Coupler
- HF — HF Series Coupler

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Component Part Features

1. Precision machining, hardened wear points* and solid bar stock construction provide long life even in rugged applications.
2. Tubular valve with large flow passages delivers high flow with minimum pressure drop for efficient performance. The tubular design provides 360° support for both the valve seal and the mating nipple for long service life.
3. Precision molded seals form a “bubble tight” seal for reliable operation within rated working pressures. Standard seal material is Nitrile (Buna-N). Ethylene Propylene, Viton and Neoprene are available as options.
4. Locking pawls (pins) constructed of stainless steel create a durable locking mechanism that provides alignment and evenly distributes loads.
5. Push-to-connect design permits one-handed connection when the coupler half is rigidly mounted.
6. Knurling on the sleeve provides a gripping surface for ease of operation.
7. Wide range of end terminations are available to meet specific needs. Parker push type couplings are available with male pipe thread, female pipe thread, standard hose barb, and Push Lok hose barb**.
8. Parker 30 Series couplings mate with industrial interchange design nipples. See Table of Contents.

* steel nipples only

** Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Features

- Parker 30 Series couplers are designed for rigid mounting that allows a simple push-to-connect operation.
- Constructed of a solid brass body and a steel valve, 30 Series couplers are noted for their high flow capability, reliability and rugged design.
- Parker 30 Series, 20 Series sleeve type, and E-z-mate couplers accept industrial interchange nipples manufactured by Parker and other manufacturers.
- Nipples used with the 30 Series are the Industrial Interchange § Nipples. See Table of Contents.
- Standard seal material is Buna-N (Nitrile). See Ordering Information at the end of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.

Specifications

Body Size	1/4	3/8	1/2	3/4
Rated Pressure (PSI)	300	300	300	300
Temperature Range (std seals)	-40° to +250° F.			
Locking Device	3 pawls	4 pawls	5 pawls	6 pawls
Vacuum Data (inches Hg)				
Disconnected (coupler only)	**Not recommended**			
Connected	27.4	27.4	27.4	27.4

Special Order Information

Available with Sleeve-Lok (See Coupler Options Section). To order, add the suffix *"-SL"* to the part number, Example: B33-SL.

Brass valves are available for extra corrosion resistance. To specify a brass valve, add the suffix *"N"* to the regular part number. Example: B33N. A brass valve should be used for corrosive applications where steel parts are not suitable. Consult the factory for specific recommendations.

Operation

Push type couplings feature one handed "automatic" connection by pushing the nipple into the coupler–provided the coupler half is firmly mounted.

The locking mechanism of Parker 30 Series couplers consists of pawls (or pins) which act directly on the sleeve, thereby causing the sleeve to automatically retract when the mating nipple is inserted.

The sleeve must be manually retracted in order to remove the nipple.

Parker 30 Series couplings are push type Single Shut-Off couplings.

Common applications include: compressed air, water, grease, paint, limited vacuum and limited gas.

Performance

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B33A	1/8-27	1.96	0.75	1.20	0.30
1/4	B33	1/4-18	1.96	0.75	1.20	0.28
1/4	B33E	3/8-18	2.03	0.81	1.20	0.30
3/8	B35C	1/4-18	2.26	0.88	1.39	0.42
3/8	B35	3/8-18	2.33	0.88	1.39	0.42
3/8	B35F	1/2-14	2.57	1.00	1.39	0.46
1/2	B37E	3/8-18	2.76	1.00	1.52	0.56
1/2	B37	1/2-14	3.00	1.00	1.52	0.66
1/2	B37G	3/4-14	3.12	1.25	1.52	0.73
3/4	B39F	1/2-14	2.85	1.31	1.90	1.10
3/4	B39	3/4-14	2.99	1.31	1.90	1.10
3/4	B39J	1-11 1/2	3.18	1.56	1.90	1.24

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B32A	1/8-27	2.03	0.75	1.20	0.27
1/4	B32	1/4-18	2.18	0.75	1.20	0.28
1/4	B32E	3/8-18	2.18	0.75	1.20	0.28
3/8	B34C	1/4-18	2.38	0.88	1.39	0.36
3/8	B34	3/8-18	2.44	0.88	1.39	0.39
3/8	B34F	1/2-14	2.57	0.88	1.39	0.41
1/2	B36E	3/8-18	2.92	1.00	1.52	0.58
1/2	B36	1/2-14	3.09	1.00	1.52	0.61
1/2	B36G	3/4-14	3.12	1.13	1.52	0.67
3/4	B38F	1/2-14	2.93	1.31	1.90	.89
3/4	B38	3/4-14	2.95	1.31	1.90	0.91
3/4	B38J	1-11 1/2	3.12	1.31	1.90	0.99

Note

See Table of Contents for Industrial Interchange Nipples used with 30 Series couplers .

Couplers

Standard Hose Barb

Body Size (in.)	Part No. Brass	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B30-3B	1/4	2.62	0.75	1.20	0.27
1/4	B30-4B	5/16	2.62	0.75	1.20	0.27
1/4	B30-5B	3/8	2.62	0.75	1.20	0.28
3/8	B34-5B	3/8	2.85	0.88	1.39	0.39
3/8	B34-6B	1/2	2.85	0.88	1.39	0.41
1/2	B36-6B	1/2	3.33	1.00	1.52	0.59
1/2	B36-7B	3/4	3.86	1.00	1.52	0.65
3/4	B38-6B	1/2	3.16	1.31	1.90	0.90
3/4	B38-7B	3/4	3.69	1.31	1.90	0.93
3/4	B38-8B	1	3.93	1.31	1.90	1.03

Push-Lok Hose Barb*

Body Size (in.)	Part No. Brass	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	B30-3BP	1/4	2.45	0.75	1.20	0.27
1/4	B30-5BP	3/8	2.60	0.75	1.20	0.29
3/8	B34-5BP	3/8	2.82	0.88	1.39	0.40
1/2	B36-6BP	1/2	3.46	1.00	1.52	0.56

* Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Reusable Hose Fittings

Body Size (in.)	Part No. Brass	Hose I.D.	Hose O.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				A	B	C	
1/4	**B32-C3	1/4	1/2	2.59	0.69	1.20	0.38

Note

See Table of Contents for Industrial Interchange Nipples used with 30 Series couplers .

Specifications

Body Size	1/4
Rated Pressure (psi)	300
Temperature Range (std seals)	-40° to +250° F.
Locking Device	4 balls
Vacuum Service	**Not Recommended**

Performance

Features

- Parker 50 Series couplings are interchangeable with ARO's 210 series couplings. See Table of Contents.
- 50 Series couplings have a full opening tubular valve for maximum flow and a built-in sleeve guard to minimize accidental disconnect.
- The 50 Series is only available in 1/4" body size.
- 50 Series couplings have all brass bodies and steel valves.
- Standard seal material is nitrile. See the Coupling Selection and Ordering Information Guide at the beginning of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.

How To Order

C 50A 01 - 4 - 4

- Port Size (1/16 of a inch)
- Body Size (1/16 of a inch)
- Port Configuration
  - 01 - Male NPTF
  - 02 - Female NPTF
  - HB - Standard Hose Barb*
  - PL - Push-Lok Hose Barb*
- Series Designator
  - 50 Series Automatic
- C = Coupler
  N = Nipple

*Consult division for availability

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	C50A02-4-4	1/4-18	2.11	0.81	1.01	0.26

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	C50A01-4-4	1/4-18	2.26	0.81	1.01	0.24

Specification

Body Size	1/4	1/2
Rated Pressure (PSI)	250	
Temperature Range (Nitrile seal)	-10° F to +165° F.	
Locking Device	CAM	
Vacuum Service	**Not Recommended**	

Performance

Features

- Engineered for speedy coupling and uncoupling. To lock – push in; to unlock – give the coupler sleeve a 1/8 turn. Designed to protect against accidental uncoupling.
- A variety of port configurations are available to meet specific needs.
- Standard Twist-Lock couplings are ideal for low to medium air flows, such as air tools.
- Standard Seals are Buna-N (Nitrile).
- Constructed of Zinc bodies and Zinc plated steel sleeves and nipples.
- Interchanges with Schrader Twist-Lock style couplings.

Couplers

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPT	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	8052-0319	1/4-18	1.875	.69	1.12	0.21
1/2	1095-0040	3/8-18	2.19	1.13	1.50	0.44
1/2	1461-0070	1/2-14	2.50	1.13	1.50	0.44
1/2	1462-0040	3/4-14	2.56	1.13	1.50	0.44

Male Thread

Body Size (in.)	Part No. Steel	Thread Size NPT	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	3060-0109	1/4-18	2.125	.69	1.12	0.21
1/4	3061-0109	3/8-18	2.125	.69	1.12	0.22
1/2	3080-0020	3/8-18	2.31	1.13	1.50	0.39
1/2	3081-0020	1/2-14	2.75	1.13	1.50	0.40

Nipples

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPT	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	2047-0010	1/8-27	1.53	.56	.65	0.04
1/4	8278-0050	1/4-18	1.81	.69	.79	0.07
1/2	1261-0020	1/4-18	1.68	.69	.80	0.14
1/2	1096-0010	3/8-18	1.84	.88	1.01	0.14

Male Thread

Body Size (in.)	Part No. Steel	Thread Size NPT	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	8051-0010	1/8-27	1.65	.56	.65	0.05
1/4	8050-0110	1/4-18	1.75	.56	.65	0.05
1/2	8624-0070	1/4-18	1.87	.69	.80	0.12
1/2	1095-0020	3/8-18	1.93	.69	.80	0.12
1/2	1461-0050	1/2-14	2.16	.88	1.01	0.13
1/2	1462-0100	3/4-14	2.16	1.06	1.22	0.14

Standard Hose Barb

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	8787-0040	1/4	2.18	.56	.65	0.04
1/4	8788-0030	3/8	2.18	.56	.65	0.06
1/2	2123-0030	1/4	2.31	.69	.80	0.10
1/2	1097-0010	3/8	2.28	–	.69	0.11
1/2	1098-0010	1/2	2.28	–	.81	0.12

Features

- The 1/4" Universal Coupler will accept the industrial interchange, [(MIL-C4109) and (ANSI/(NFPA) T3.20.14-1990)], 10 Series (Tru-Flate) and the 50 series (ARO 210) style nipples.
- The coupler features automatic push-to-connect operation, high flow machined “window valve,” corrosion resistant solid brass construction and a sleeve guard which helps prevent accidental disconnects and protects the sleeve from damage.
- The coupler is available with male or female pipe thread ports.
- While the best quick coupling performance is obtained by matching like series couplers and nipples, the universal coupler permits multiple series nipples to mate with one coupler.

Specifications

Body Size	**1/4**
Rated Pressure (PSI)	150
Temperature Range (Nitrile seal)	-40° to +250° F.
Locking Device	4 balls
Vacuum Service	**Not Recommended**

Performance

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPSF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	UC304F-4	1/4-18	2.06	0.81	.98	0.23

Male Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPSF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	UC304M-4	1/4-18	2.21	0.81	.98	0.22

Specifications

Body Size	1/4
Rated Pressure (PSI)	150
Temperature Range	-40° to +250° F.
Locking Device	4 balls
Vacuum Service	**Not Recommended**

Performance

Features

- Parker CJ series couplings feature a unique design that allows for simple push-to connect operation yet requires a two step process to disconnect. To disconnect, the nipple must be pushed into the coupler before the coupler sleeve can be retracted.
- This sleeve locking feature greatly reduces the potential of accidental disconnects in applications where connection integrity is of primary importance.
- Typical uses include rescue and breathing air equipment in addition to general pneumatic applications.
- Couplers feature solid brass construction, nickel plating, sleeve guard, high flow window valve, stainless steel springs and locking balls.
- Nitrile seals are standard with Ethylene Propylene seals available by adding a “W” suffix to the part number. Example: CJ304M-4W.
- Nipples feature heat treated solid bar stock construction and nickel plating. CJ series couplings are available in 1/4" body size with 1/4" and 3/8" male pipe, female pipe, and hose barb ports.
- Interchanges with CEJN 342/343 series.

How To Order

CJ 3 04 - F - 4

- 4 — Port Size (1/16 of a inch)
- F — Port Configuration
  - F - Male Pipe
  - M - Male Pipe
  - HB - Standard Hose Barb*
- 04 — Body Size (1/16 of a inch)
- 3 — 3 - Nickle Plated Brass Coupler; 6 - Nickle Plated Brass Nipple
- CJ — CJ Series Coupler/Nipple

Couplers

Female Pipe

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4"	CJ304F-4	1/4-18	2.40	.81	.99	0.28
1/4"	CJ304F-6	3/8-18	2.55	.81	.99	0.30

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Couplers

Male Pipe

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4"	CJ304M-4	1/4-18	2.55	.81	.99	0.26
1/4"	CJ304M-6	3/8-18	2.58	.81	.99	0.27

Hose Barb

Body Size (in.)	Part No.	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4"	CJ304HB-4	1/4	3.02	.81	.99	0.25
1/4"	CJ304HB-6	3/8	3.02	.81	.99	0.25

Nipples

Female Pipe

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/4"	CJ604F-4	1/4-18	1.62	.74	.62	.72	0.06
1/4"	CJ604F-6	3/8-18	1.65	.77	.81	.94	0.10

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

Male Pipe

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/4"	CJ604M-4	1/4-18	1.77	.89	.56	.72	0.05
1/4"	CJ604M-6	3/8-18	1.80	.92	.69	.94	0.05

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

Hose Barb

Body Size (in.)	Part No.	Hose I.D.	Dimensions (in.) Overall Length	Exposed Length*	Largest Diameter	Wt. (LB) P/Piece
			D	E	G	
1/4"	CJ604HB-4	1/4	2.06	1.18	.55	0.04
1/4"	CJ604HB-6	3/8	2.06	1.18	.55	0.04

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

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Operation

Parker E-z-mate couplings combine push-to-connect, exhaust-style action with a self-locking valve sleeve to guard against accidental disconnection. Simply follow the direction of the On-Off arrow stamped on the yellow chromate valve sleeve. It's that easy.

To connect, push the nipple into the coupler. The black locking sleeve automatically slides forward securely locking the nipple in place. No air is allowed to flow through the coupling at this point. The yellow chromate valve sleeve is then rotated clockwise (when viewed from the coupler port end) to open flow and automatically engage the sleeve-lock mechanism.

To disconnect, rotate the valve sleeve counter clockwise (when viewed from the coupler end). The flow of air through the coupling will be shut off and all downstream air is vented to the atmosphere. The locking sleeve may now be retracted and the nipple removed.

Specifications

Body Size	1/4	3/8	1/2	3/4
Rated Pressure (PSI)	300	300	300	300
Temperature Range (std seals)	-40° to +250° F.			
Locking Device	4 balls	4 balls	6 balls	8 balls
Force required to Connect (lbs)	Less than 10			
Vacuum Service	**Not recommended**			

How To Order

EZ 3 06 HB - 6

- 6 — Port Size (1/16 of a inch)
- HB — Port Configuration
  - F - Female Pipe
  - HB - Hose Barb
  - M - Male Pipe
  - PL - Push Lok
- 06 — Body Size (1/16 of a inch)
- 3 — Standard Coupler
- EZ — E-z-mate Series

Features

- The valve sleeve acts as an integral shut off valve that allows connect and disconnect at zero pressure. The valve sleeve is operated independently of the locking sleeve. When the sleeve is moved to shut off air flow, it automatically vents downstream pressure so disconnect can be performed easily at zero pressure.
- Built in sleeve-lok mechanically locks the valve sleeve to help prevent accidental disconnects.
- O-ring interface seal assures "bubble tight" seal and long service life.
- Proven ball locking mechanism evenly distributes load to resist wear and provide positive connections. The ball locking mechanism also provides accurate alignment and allows a swiveling action to reduce hose torque.
- Knurling and grooves on the sleeves provide a gripping surface for ease of operation.
- Design ensures the valve sleeve is locked in place with rotational movement to prohibit disconnect under pressure.
- Venting ports exhaust down stream air to atmosphere so disconnect is at zero pressure reducing the chance of "hose whip."
- Parker's E-z-mate is an exhaust type coupler that is designed to exhaust air pressure prior to disconnection process. This allows for connection or disconnection at "ZERO" psi, which greatly reduces the force required to make the connection and disconnection and minimizes the possibility of hazardous hose whip.
- Parker E-z-mate Series couplers accept industrial interchange nipples manufactured by Parker and other manufacturers. See Table of Contents.
- Nipples used with the E-z-mate Series Couplers are the Industrial Interchange § Nipples. See Table of Contents.

Performance

Note

The valve sleeve must be retracted before the locking sleeve in order to make the disconnect at zero pressure.

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	EZ304F-4T	1/4-18	2.25	0.75	1.00	0.25
1/4	EZ304F-6T	3/8-18	2.68	0.88	1.01	0.29
3/8	EZ306F-6T	3/8-18	2.53	0.88	1.18	0.38
3/8	EZ306F-8T	1/2-14	3.00	1.12	1.30	0.50
1/2	EZ308F-8T	1/2-14	3.01	1.12	1.38	0.65
1/2	EZ308F-12T	3/4-14	3.44	1.38	1.59	0.70
3/4	EZ312F-12T	3/4-14	3.01	1.38	1.57	0.76
3/4	EZ312F-16T	1-11 1/2	3.52	1.56	1.80	0.92

Male Pipe Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	EZ304M-4T	1/4-18	2.85	0.75	1.00	0.30
1/4	EZ304M-6T	3/8-18	2.87	0.75	1.00	0.31
3/8	EZ306M-6T	3/8-18	3.10	0.88	1.18	0.44
1/2	EZ308M-8T	1/2-14	3.62	1.12	1.38	0.73
3/4	EZ312M-12T	3/4-14	3.70	1.38	1.57	0.90

Standard Hose Barb

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	EZ304HB-4T	1/4	3.20	0.75	1.00	0.28
1/4	EZ304HB-6T	3/8	3.20	0.75	1.00	0.29
3/8	EZ306HB-6T	3/8	3.43	0.88	1.18	0.42
1/2	EZ308HB-8T	1/2	4.06	1.12	1.40	0.70

Push Lok Hose Barb

Body Size (in.)	Part No. Steel	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	EZ304PL-4T	1/4	3.03	0.75	1.00	0.28
1/4	EZ304PL-6T	3/8	3.18	0.75	1.00	0.29
3/8	EZ306PL-6T	3/8	3.38	0.88	1.18	0.42
1/2	EZ308PL-8T	1/2	3.91	1.12	1.38	0.70

Note

See Table of Contents for § Industrial Interchange nipples used with E-z-mate II Series couplers.

Description

Parker E-z-mate NoMar™ is an exhaust-style coupler designed to exhaust air pressure priop to disconnection. This allows for connection and disconnection at 0 psi, greatly reduces the force required to couple and uncouple, and minimizes the possibility of hazardous hose whip. E-z-mate couplers incorporate the industrial interchange nipple profile. These features are combined with a non-marking, oil resistant polyurethane cover.

Specifications

Body Size	**1/4**
Rated Pressure (psi)	300
Temperature Range (std seals)	-40° to +250° F
Locking Device	4 balls
Vacuum Data (inches Hg)	
Disconnected (coupler only)	**Not Recommended**
Connected	27.4

Body Size (in.)	Part No.	Port Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt.(LB) P/Piece
Female Pipe Thread			**A**	**B**	**C**	
3/8"	EZN306F-6T	3/8" NPTF	2.53	.88	1.18	0.41
Male Pipe Thread			**A**	**B**	**C**	
3/8"	EZN306M-6T	3/8" NPTF	3.10	.88	1.18	0.47
Standard Hose Barb			**A**	**B**	**C**	
3/8"	EZN306HB-6T	3/8" Hose I.D.	3.43	.88	1.18	0.45
Push-Lok Hose Barb			**A**	**B**	**C**	
3/8"	EZN306PL-6T	3/8" Hose I.D.	3.38	.88	1.18	0.45

*Without hose shell. Overall length with installed hose shell is 4.94 on all port options.

Operation

Parker NoMar™ E-z-mate couplers combine push-to-connect, exhaust-style action with a self-locking valve sleeve to guard against accidental disconnection. Simply follow the direction of the On-Off arrow on the valve sleeve. It's that easy.

To connect, push the nipple into the coupler. The locking sleeve automatically slides forward securely locking the nipple in place. No air is allowed to flow through the coupling at this point. The valve sleeve is then rotated clockwise (when viewed from the coupler port end) to open flow and automatically engage the sleeve-lock mechanism.

To disconnect, rotate the valve sleeve counter clockwise (when viewed from the coupler port end). The flow of air through the coupling will be shut off and all downstream air vented to atmosphere. The locking sleeve may now be retracted and the nipple removed.

Performance

How To Order

EZ N 3 06 HB - 6

- 6 — Port Size (1/16 of a inch)
- HB — Port Configuration
  - F - Female Pipe
  - HB - Hose Barb
  - M - Male Pipe
  - PL - Push Lok
- 06 — Body Size (1/16 of a inch)
- 3 — Standard Coupler
- N — NoMar™ - Soft Sided Coupler
- EZ — E-z-mate Series

Applications

Typical applications dental equipment, lubrication equipment, fluid transfer and coolant lines.

Specifications

Body Size	1/8"
Temperature Range	-15°F to +390°F
Rated Pressure	250 PSI
Locking Device	5 Balls
Rated Flow	0.8GPM

How To Order

C DM 02 2 - 2 Y

- Seal Code
  - None - Nitrile
  - W - Ethylene Propylene
  - Y - Viton (flourocarbon)
  - Z - Neoprene
- Port Size (1/16 of a inch)
- Body Size (1/16 of a inch)
- Port Configuration
  - 01 - Male Pipe
  - 02 - Female Pipe
- DM Series
- C = Coupler
  N = Nipple

Features

- Parker DM Series offer double shut-off valving and push-to-connect operation in a small envelope size.
- They are constructed of nickel plated brass and are available in 1/8" body size only.
- Standard seals are Viton, but other seal material is available upon request. See the Coupling Selection and Ordering Information Guide at the beginning of Section A and the Fluid Compatibility Chart at the end of this catalog for optional materials.

Performance

Air Pressure Drop Comparison
1/8" DM Series

Water Pressure Drop Comparison
1/8" DM Series

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Couplers

Female Pipe Thread

Body Size (in.)	Part Number Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Price
			A	B	C	
1/8	CDM02-2-2Y	1/8-27	1.42	0.55	0.63	.06
1/8	CDM02-2-4Y	1/4-18	1.81	0.67	0.78	.10

Male Pipe Thread

Body Size (in.)	Part Number Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Price
			A	B	C	
1/8	CDM01-2-2Y	1/8-27	1.50	0.55	0.63	.06
1/8	CDM01-2-4Y	1/4-18	1.61	0.55	0.63	.07

Nipples

Female Pipe Thread

Body Size (in.)	Part Number Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (lb) P/Price
			D	E	F	G	
1/8	NDM02-2-2Y	1/8-27	1.56	1.03	0.55	0.63	.05
1/8	NDM02-2-4Y	1/4-18	1.97	1.44	0.67	0.78	.09

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

Male Pipe Thread

Body Size (in.)	Part Number Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (lb) P/Price
			D	E	F	G	
1/8	NDM01-2-2Y	1/8-27	1.65	1.12	0.55	0.63	.05
1/8	NDM01-2-4Y	1/4-18	1.77	1.24	0.55	0.63	.06

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

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Male Reusable Hose End

Part No. Steel	Hose I.D.	HOSE O.D.	Thread Size NPTF	Overall Length	Hex Size	Hex Size	Largest Diameter	Wt. (LB) P/Piece
				A	B	C	D	
330-C3	1/4	1/2	1/4	1.720	9/16	11/16	0.79	–
330-C5	1/4	9/16	1/4	1.720	9/16	3/4	0.87	–
330-C6	1/4	5/8	1/4	1.720	9/16	13/16	0.94	–
332-E6	3/8	5/8	1/4	2.095	9/16	7/8	1.01	–
332-E7	3/8	21/32	1/4	2.095	9/16	7/8	1.01	–
332-E8	3/8	11/16	1/4	2.095	9/16	7/8	1.01	–
332-E10	3/8	3/4	1/4	2.095	9/16	15/16	1.08	–
334-E7	3/8	21/32	3/8	2.155	11/16	7/8	1.01	–
334-E8	3/8	11/16	3/8	2.155	11/16	7/8	1.01	–

Female Hose Barb

Part No. Brass	Hose I.D.	Thread Size NPTF	Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
311	1/4	1/4	1.58	–	–	0.05
311-3/8	3/8	1/4	1.58	–	–	0.05

Male Hose Barb

Part No. Brass	Hose I.D.	Thread Size NPTF	Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
308	1/4	1/8	1.54	0.44	0.50	0.02
310	1/4	1/4	1.64	0.56	0.65	0.02
310-5/16	5/16	1/4	1.64	0.56	0.65	0.03
310-3/8	3/8	1/4	1.64	0.56	0.65	0.11
310-1/2	1/2	1/4	1.64	0.56	0.65	0.04
318	3/8	3/8	1.71	0.69	0.79	–
318-1/4	1/4	3/8	1.71	0.69	0.79	0.04
318-1/2	1/2	3/8	1.71	0.69	0.79	0.06
322	1/2	1/2	1.86	0.88	1.01	0.10
322-3/8	3/8	1/2	1.86	0.88	1.01	0.09
322-3/4	3/4	1/2	1.86	0.88	1.01	0.13

Brass Hose Splicer

Part No. Brass	Hose I.D.	Overal Length	Largest Diameter	Wt. (LB) P/Piece
		A	B	
314	1/4	2.00	0.38	0.01
314-5/16	5/16	2.00	0.50	0.02
314-3/8	3/8	2.00	0.56	0.03

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150M – The Parker Air Line Filter is an extremely effective accessory that protects air equipment from rust, pipe scale, and dirt. It reduces down time, prevents expensive repairs and prolongs tool life. The 150 M filter can also be used for effective filtration of other compatible fluids. Available with 1/4" female NPT inlet and 1/4" male NPT outlet. The nominal 40 Micron sintered metal element is easily replaced. Or it can be simply cleaned by reversing flow (back flushing). Element replacement kit number is **150M-05***, which includes necessary seals.

*Other Micron filtration elements, including necessary seals, are available from the division upon request.

Specifications

Filtration	
40 Micron (.00016") nominal.	
Effective area	1 sq. in.
Pressure Rating	
Working Pressure (PSI)	1000

Grip-Ring Sleeve

Features

- This Grip-Ring sleeve enables the operator to connect or disconnect the coupling easily, even with greasy hands or while wearing heavy gloves.
- Grip-Ring sleeves are available for all 10 and 20 Series couplers. To specify a model with a Grip-Ring sleeve, add the suffix letter “R” to the regular model number. Example: B13R.

Caution: The Grip-Ring sleeve is subject to unintended disconnect if dragged on the end of a hose. Do not attempt to pull it over obstacles.

Sleeve-Lok

Features

- All sizes of 10, 20, 30, 50, and 70 Series couplers can be furnished with Locking Sleeves, as illustrated.
- Place suffix letters -*“SL”* (Sleeve-Lok) after regular catalog number. Example: B13-SL.

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Features

- Parker Controlled Pressure Blow Guns meet OSHA requirements (section 29 CFR 1910.242 paragraph b), and directive #100-1. “Compressed air shall not be used for cleaning purposes except where reduced to less than 30 psi, and then only with effective chip guarding and personal protective equipment.”
- Parker Controlled Pressure Blow Guns have a black epoxy coated aluminum body and vented nozzles to prevent pressure build-up when dead ending occurs up to 150 psi.

Description

410-S – Parker Controlled Pressure Blow Guns features thumb lever valve actuator and brass nozzle. Inlet port is 1/4" NPT.

415-S – Parker Controlled Pressure Blow Guns features push button valve actuator and brass nozzle. Inlet port is 1/4" NPT.

410-SV – Parker Venturi Nozzle Controlled Pressure Blow Gun with thumb lever valve and large venturi side ports for high volume flow. Inlet port is 1/4" NPT.

Specifications

Part No.	Free Flow @100 PSI (CFM)	Static Pressure at Nozzle (Dead Ended @ 150 PSI)	Maximum Pressure	Wt. (LB) P/Piece
410-S	21	20	150 PSI.	024
415-S	21	20	150 PSI	0.20
410-SV	24	5	150 PSI	0.26

Old Part #	Current Part #
409	410-SV
406-30B	415-S
407-30B	410-S

The following Parker Blow Guns must have a pressure regulator setting below 30 psi to conform to OSHA safety requirements 29 CFR 1910.242 Paragraph b.

Description

410-N – Parker thumb lever style Blow Gun features an aluminum body, extended nozzle, and 1/4" NPT female inlet.

415-N – Parker Blow Gun features a push button style actuator, aluminum body, and 1/4" NPT female inlet.

410 – Parker two way thumb lever valve has an aluminum body with 1/4" NPT inlet and 1/8" NPSF outlet.

Note: Standard Gun without nozzle.

Specifications

Part No.	Free Flow @100 PSI (CFM)	Static Pressure at Nozzle (Dead Ended @ 150 PSI)	Maximum Pressure	Wt. (LB) P/Piece
410-N	15	N/A	150 PSI	0.22
415-N	15	N/A	150 PSI	0.18
410	30	N/A	150 PSI	0.22

Old Part #	Current Part #
400	415-N
401	410-N
401VA	410

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Features

- Parker two-way valves are designed for use in air or liquid service.
- Bodies are constructed of molded polypropylene.
- The valve cartridge components are machined from brass and stainless steel for corrosion resistance and long life.
- Nitrile stem seals are standard. Add suffix Y for optional Viton™ seal. Consult factory for price and delivery.

Specifications

Rated Pressure (PSI)	175 @ 70° F	120 @ 180° F
Temperature Range	-20° to 180° F	

*** Note:** All two way valves are available in three colors: Black (standard), Red and Blue. Add suffix B for black, BU for blue, R for Red. For example, P410B, P410BU, P410R.

Description

P410* – Two way valve with forward positioned lever handle. Inlet and outlet ports are 1/4" NPT.

P415* – Two way valve features push button style valve actuator. Inlet and outlet ports are 1/4" NPT.

P420* – Reverse oriented lever handle is used in carpet cleaning applications which utilize tube mounted valves. Inlet and outlet ports are 1/4".

Part Number	Nozzle	Meets OSHA Requirements
BG441-NBL	Extended	No

Part Number	Nozzle	Meets OSHA Requirements
BG442-SBL	Extended	Yes

Part Number	Nozzle	Meets OSHA Requirements
BG442-SGY	Extended	Yes

Part Number	Nozzle	Meets OSHA Requirements
BG443-NBL	1/8” Female NPT	No

Part Number	Nozzle	Meets OSHA Requirements
BG444-SBL	Short	Yes

Description

Made from impact resistant plastic, BG Series blow guns are durable and versatile. Extended nozzles allow air to be directed where it is required. The pistol grip trigger allows greater control over the amount of air delivered. Combined, these two features provide superior performance in a light weight, ergonomically designed package.

Nozzles are avilable in short and extended versions and most models meet OSHA directives on the use of compressed air for cleaning purposes. OSHA directive #100-1 states that "when dead ending occurs a static pressure at the main orifice shall not exceed 30 psi." For those blow guns that do not meet this requirement, OSHA requires that "compressed air shall not be used for cleaning purposes except where reduced to less than 30 psi, and then only with effective chip guarding and personal protective equipment" (section 29 CFR 1910.242 paragraph b). Please refer to the blow gun descriptions below for compatibility with OSHA directive #100-1.

Nozzle configurations are designed for maximum flexibility. Applications with special requirements may find the BG443-NBL with a 1/8" NPT fitting convenient for adapting existing nozzles or extra-long extensions. For information on specials or made-to-order blow gun nozzles, please contact the Quick Coupling Division.

Features

- Easy to control variable flow pistol grip trigger.
- Nozzles available that meet OSHA requirements.
- Lightweight ergonomical design.
- Bodies are constructed of impact resistant plastic.

Specifications

Rated Pressure (PSI)	175 psi
Temperature Range	to 120° F
Inlet Port	1/4” NPTF

How to Order

BG Part Number: **BG 4 42 S BL**

- **BG** — **BG Series Blow Gun**
- **4** — **Inlet Port In 16ths**
- **42** — **Nozzle Style**
  - 41
  - 42
  - 43
  - 44
- **S** — **Meets OSHA Requirement**
  - S – Yes
  - N – No
- **BL** — **Color**
  - BL – Black
  - GY – Gray

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Hydraulic Quick Couplings

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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 in the American National Standard Glossary of Terms for Fluid Power, ANSI/B93.2-1986, 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.

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	Valving	Body Size	Material* Br	SS	S	P	Locking Mechanism	Std. Seal Material	Temp Range**	Rated Pressure
General Purpose										
60 Series	Poppet	1/8 - 2 1/2"	●	●	●		Ball	Buna-N (Nitrile)	-40° to +250° F	1000 to 5000 PSI
60 Series Steam	Poppet	3/8"	●				Ball	Ethylene Propylene	-65° to 400° F	100 PSI
6600 Series	Poppet	1/4 to 1"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	4000 to 5000 PSI
SM Series	Poppet	1/4 to 3/4"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	4500 to 6000 PSI
HP Series	Poppet	1 to 1 1/2"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	5000 PSI
4000 Series	Poppet/Ball	1/4 to 1"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	2500 to 3000 PSI
4200 Series	Poppet/Ball	1/4 to 1"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	2500 to 3000 PSI
8200 Series	Poppet/Ball	1/4 to 1"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	2500 to 3000 PSI
Non-Spill										
NS Series	Flush Face	3/8 to 1"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	2500 PSI
NC Series***	Flush Face	1/2"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	3000 PSI
Adapters	Poppet/ Flush Face	1/2"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	3000 to 3625 PSI
FC Series***	Flush Face	3/8" to 3/4"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	3000 PSI
FE Series	Flush Face	1/2 to 5/8"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	3625 PSI
FEC Series***	Flush Face	3/8" to 3/4"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	3000 PSI
FF Series	Flush Face	1/4 to 1"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	3000 to 5000 PSI
FH Series	Flush Face	3/8"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	10,000 PSI
FS Series	Flush Face	1/4 to 1"		●			Ball	Viton	-20° to +400° F	2000 PSI
Connect Under Pressure										
6100 Series	Flush Face	3/4 to 1 1 /2"	●				Threads	Buna-N (Nitrile)	-40° to +250° F	2000 to 3000 PSI
5000 Series	Ball	1/2"			●		Threads	Buna-N (Nitrile)	-40° to +250° F	2500 PSI
9200 Series	Poppet	1/2"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	3000 PSI
High Pressure										
3000 Series	Ball	1/4 to 3/8"			●		Threads	Polyurethane	-10° to +250° F	10,000 PSI
TC Series	Poppet	3/8"			●		Ball	Viton	-40° to +250° F	10,000 PSI
1141 Series	Poppet	1/4"		●			Threads	Polyurethane	-40° to +250° F	10,000 PSI
High Flow										
ST Series	None	1/8 to 1 1/2"	●	●	●		Ball	Buna-N (Nitrile)	-40° to +250° F	2500 to 6700 PSI
WB Series	None	1/4 to 1/2"			●		Collet	Buna-N (Nitrile)	-40° to +250° F	10,000 PSI
Water Service	None	3/4"	●				Ball	Buna-N (Nitrile)	-40° to +250° F	200 PSI
HO Series	None	1/4 to 1/2"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	10,000 to 15,000 PSI
Mold Coolant										
Moldmate	valved & unvalved	1/4 to 1/2"	●				Ball	Silicone	-20° to +400° F	200 PSI

* See Fluid Compatibility chart and/or consult factory for questions regarding proper material for specific applications.
CODE: Br = Brass; SS = Stainless Steel; S = Steel; P = Plastic
**Temperature Range for standard seal material.
***Connect-Under-Pressure "Non-Spill"

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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Minneapolis, MN 55427

Applications

Parker general purpose couplings, are used across the spectrum of hydraulic applications. These Double Shut-Off couplings can be found anywhere that fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment, and a loss of fluid is undesirable. Primarily used with hydraulic fluid, general purpose Double Shut-Off couplings are also used with chemicals, water, steam, and some gases.

Special Order Information

60 Series couplings are available in zinc plated steel, brass, 303 stainless steel, and 316 stainless steel. Brass couplings have double O-Ring seals and stainless locking balls.

Standard seal materials are Buna-N (Nitrile); optional seal materials are available.

For 316 stainless steel products, standard seal material is Viton™, and other seal materials are available upon request. See Fluid Compatibility Chart at end of this catalog.

All sizes of 60 Series can be furnished with locking sleeves. Place suffix letters "SL" (Sleeve-Lok) after regular catalog numbers. Example H3-62SL. Parker 60 Series heavy duty nipples are recommended where high cycle rates and pressure surges are encountered. Machined from high tensile steel and induction hardened, they are zinc plated with a yellow chromate finish. To specify a heavy duty nipple, add the prefix "HD" to the steel part number; thus: HDH2-63.

Note

Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

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

Temperature Range: Standard seals (Buna-N) -40° to +250° F Optional Viton seals -10° to +400° F

Vacuum Data: 27.4 inches Hg. both connected and disconnected (1-1/2" and 2-1/2" body size 60 Series couplings are not reccommended for service in diconnected mode)

Note: Read the Safety Guide for Selecting and Using Quick Action Couplings and Related Accessories before making a coupling selection. It may be found in Parker Hannifin Quick Coupling Divison catalogs and is available as Parker Publication No. 3800-B1.0.

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

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Features

1. Large flow areas machined into the body of the coupler and nipple facilitate flow around the valve, for a high flow capacity.
2. Positive valve stop. The perch maintains valve alignment and provides metal to metal valve stop to ensure that the valves open fully, every time.
3. Captive valve seal assures “bubble tight” poppet sealing. The valve seal is positively captured by the metal poppet to minimize seal washout or damage from high velocity fluid.
4. Hardened nipples and sleeves (steel) and solid barstock construction make for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock.
5. The seal is designed to withstand high pressures and provide reliable sealing. A wide selection of optional seal materials are available, see Fluid Compatibility Chart at end of this catalog for selection assistance. Steel versions feature Teflon™ back-up rings that support mating seals for high pressure applications. Brass couplers have a double O-ring seal for redundancy in low pressure, vacuum and steam applications.
6. Durable ball-locking mechanism assures reliable connection, every time. A large number of locking balls distributes the work load evenly while providing alignment and swiveling action to reduce hose torque and prolong hose life.
7. Manufactured from brass, steel and stainless steel as standard materials. A wide range of seals allow these couplings to be used with a broad range of media.
8. Industry-wide interchangeability. Parker 60 Series couplers and nipples are the “Industrial Interchange” design and meet the dimensional requirements of Series B in ISO 7241-1.
9. Also available with a Straight Thread (ORB) end configuration available as standard, for reduced leakage.

Performance

Couplers

Female Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Part No. Type 316 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter
											A	B	C
1/8	BH1-60	0.16	H1-62	0.16	SH1-62	0.16	SSH1-62Y*	0.15	1/8-27	–	1.90	0.68	0.96
1/8	–	0.18	H1-62-T4	0.18	SH1-62-T4	0.10	SSH1-62Y-T4	0.17	–	7/16-20	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	–	2.26	0.81	1.14
1/4	–	0.33	H2-62-T6	0.31	SH2-62-T6	0.31	SSH2-62Y-T6	0.31	–	9/16-18	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	–	2.49	0.88	1.40
3/8	–	0.49	H3-62-T8	0.51	SH3-62-T8	0.51	SSH3-62Y-T8	0.51	–	3/4-16	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	–	2.87	1.12	1.77
1/2	–	0.85	H4-62-T10	0.78	SH4-62-T10	0.75	SSH4-62Y-T10	0.78	–	7/8-14	3.05	1.12	1.77
3/4	BH6-60	1.39	H6-62	1.30	SH6-62	1.31	SSH6-62Y	1.33	3/4-14	–	3.56	1.31	2.14
3/4	–	1.42	H6-62-T12	1.39	SH6-62-T12	1.34	SSH6-62Y-T12	1.40	–	1-1/16-12	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	–	4.18	1.62	2.52
1	–	1.95	H8-62-T16	1.95	SH8-62-T16	1.95	SSH8-62Y-T16	1.95	–	1-5/16-12	4.18	1.62	2.52

Contact division for BSPP port availability

Nipples

Female Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Part No. Type 316 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Exposed Length	Wrench Flats	Largest Diameter
											D	E	F	G
1/8	BH1-61	0.04	H1-63	0.03	SH1-63	0.03	SSH1-63Y*	0.04	1/8-27	–	1.61	0.41	0.56	0.65
1/8	–	0.06	H1-63-T4	0.05	SH1-63-T4	–	SSH1-63Y-T4	0.06	–	7/16-20	1.32	0.57	0.69	0.79
1/4	BH2-61	0.09	H2-63	0.08	SH2-63	0.08	SSH2-63Y	0.08	1/4-18	–	1.39	0.65	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	1.54	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	–	1.50	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	1.76	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	–	1.75	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	1.94	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	–	2.16	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	2.27	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	–	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	2.91	0.99	1.62	1.88

* Suffix 'Y' designates Viton Seal. (Contact factory for seal options)
Contact division for BSPP port availability

Optional Seals

60 Series

Optional Seals Suffix*	
W	Ethylene Propylene (EPR)
Y	Standard Viton™ Seals
Z	Neoprene
-264	Perfluoroelastomer (Kalrez)™

* See Ordering Information at end of Section B.

Couplers

Female Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Part No. Type 316 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter
											A	B	C
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	–	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	–	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	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	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	–	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	–	6.04	3.75	4.10
2 1/2	BH2024-60	–	H2024-62	–	SH2024-62	–	SSH2024-62Y	–	3-8	–	6.96	4.00	4.35

* Suffix 'Y' designates Viton Seal. (Consult factory for seal options)
‡Wrench Flat on 303 Stainless is 2.50 in.
Contact division for BSPP port availability

Nipples

Female Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Part No. Type 316 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Exposed Length	Wrench Flats	Largest Diameter
											D	E	F	G
1 1/2	BH12-61L	2.96	H12-63L	3.10	SH12-63L	3.06	SSH12-63LY*	–	1 1/4-11 1/2	–	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	–	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	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	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	–	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	–	5.95	3.37	3.75	4.10
2 1/2	BH2024-61	–	H2024-63	–	SH2024-63	–	SSH2024-63Y	–	3-8	–	6.87	4.29	4.00	4.35

* Suffix 'Y' designates Viton Seal. (Consult factory for seal options)
** Largest diameter on Brass is 2.96" across Hex Corners
‡Hex on 303 Stainless is 2.50 in.
Contact division for BSPP port availability

Replacement Parts

60 Series Couplers

Body Size (in.)	O-Rings - Buna N	Back-Up Rings
1/8	2-013N0674-70	H67A-28
1/4	2-015N0674-70	H67C-28
3/8	2-116N0674-70	4118007
1/2	2-213N0674-70	4128002
3/4	2-218N0674-70	4148001
1	2-222N0674-70	4158001
1-1/2	2-124N0674-70 (Valve)	2-138N0552-90 (Fitting) 2-224N0674-70 (Body 2 req.)
2-1/2	2-133N0674-70 (Valve)	2-234N0674-70 (Fitting) 2-333N0674-70 (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 BH67E-60K SH67E-62 SSH67-62K	H3-62 BH3-60 SH3-62 SSH3-62Y	H67E-63K BH67E-61K SH67E-63K SSH67E-63K	H3-63 BH3-61 SH3-63 SSH3-63Y
1/2"	H67F-62K BH67F-60K SH67F-62 SSH67F-62K	H4-62 BH4-60 SH4-62 SSH4-62Y	H67F-63K BH67F-61K SH67F-63K SSH67F-63K	H4-63 BH4-61 SH4-63 SSH4-63Y
3/4"	H67G-62K BH67G-60K SH67G-62 SSH67G-62K	H6-62 BH6-60 SH6-62 SSH6-62Y	H67G-63K BH67G-61K SH67G-63K SSH67G-63K	H6-63 BH6-61 SH6-63 SSH6-63Y
1"	H67J-62K BH67J-60K SH67J-62 SSH67J-62K	H8-62 BH8-60 SH8-62 SSH8-62Y	H67J-63K BH67J-61K SH67J-63K SSH67J-63K	H8-63 BH8-61 SH8-63 SSH8-63Y

Specifications

Body Size	3/8
Rated Pressure (PSI) with saturated steam at 338°F	100
Temperature Range (std seals)	Ethylene Propylene
Continuous	+250°F
Intermittent	+400°F

Coupler

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimension (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	G
3/8	H3-68	3/8-18	2.50	0.88	1.77	0.50

Nipple

Female Pipe Thread

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimension (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
3/8	H3-69	3/8-18	1.50	0.52	0.88	1.01	0.13

Repair Kits

Steam Coupling

Repair Kit Part No.	Used For Part No.
H68E-67K	H3-68
H69E-67K	H3-69

Features

- Poppet valves are mated with a solid metal perch that maintains valve alignment and prevents flow checking.
- Both the coupler's sleeve and the nipple's body are case hardened to make the 6600 Series couplings resistant to damage from brinelling and mechanical shock.
- The durable-ball-locking mechanism ensures a reliable connection every time.
- 6600 Series couplings have female pipe and straight thread end configurations as standard.
- Parker 6600 Series couplings interchange with couplings meeting ISO 7241-1, Series A. Body and nipple are interchangeable with the Aeroquip FD56 (5600) Series.

Applications

Versatile Parker 6600 Series couplings are used in a wide range of hydraulic applications including construction equipment, manufacturing machinery, and in-plant systems. They can be found anywhere the fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment. Rugged construction makes the 6600 Series a good choice for mobile applications including dump trucks, snow plows, refuse hauling, mining, asphalt paving, truck trailer connections and many more. In-plant machinery applications include hydraulic fluid, chemicals and gas lines for paper mills, steel production, and many varieties of plant maintenance and production equipment.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size	1/4	3/8	1/2	3/4	1
Rated Pressure (PSI)	5000	4000	4000	4000	4000
Rated Flow (GPM)	3	6	12	28	50
Temperature Range (std seals)	-40˚ to +250˚F				

Performance

6600 Series (1/4")
Test Fluid: Oil - 200 SUS

6600 Series (3/8; 1/2; 3/4; 1")
Test Fluid: Oil - 200 SUS

Couplers

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
1/4	6601-2-4	1/8-27	—	1.85	.88	1.08	0.27
1/4	6601-4-4	1/4-18	—	1.85	.88	1.08	0.26
3/8	6601-6-6	3/8-18	—	2.18	1.06	1.27	0.39
3/8	6608-6-6	—	9/16-18	2.18	1.06	1.27	0.38
1/2	6601-8-10	1/2-14	—	2.75	1.25	1.52	0.67
1/2	6601-12-10	3/4-14	—	2.88	1.38	1.52	0.71
1/2	6608-8-10	—	3/4-16	2.74	1.25	1.52	0.67
1/2	6608-10-10	—	7/8-14	2.79	1.25	1.52	0.64
1/2	6608-12-10	—	1 1/16-12	3.01	1.38	1.52	0.77
3/4	6601-12-12	3/4-14	—	3.36	1.62	1.90	1.31
3/4	6608-12-12	—	1 1/16-12	3.35	1.62	1.90	1.31
1	6601-16-16	1-11 1/2	—	4.11	1.88	2.14	0.73
1	6608-16-16	—	1 5/16-12	4.11	1.88	2.14	1.73

Contact division for BSPP port availability

Nipples

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/4	6602-2-4	1/8-27	—	1.27	.50	.56	.65	0.05
1/4	6602-4-4	1/4-18	—	1.27	.58	.75	.87	0.07
3/8	6602-6-6	3/8-18	—	1.47	.72	.88	1.01	0.11
3/8	6610-6-6	—	9/16-18	1.47	.72	.88	1.01	0.13
1/2	6602-8-10	1/2-14	—	1.94	.78	1.06	1.23	0.21
1/2	6602-12-10	3/4-14	—	2.03	.78	1.38	1.59	0.33
1/2	6610-8-10	—	3/4-16	1.89	.76	1.06	1.23	0.22
1/2	6610-10-10	—	7/8-14	1.94	.82	1.12	1.30	0.21
1/2	6610-12-10	—	1 1/16-12	2.16	1.04	1.38	1.59	0.33
3/4	6602-12-12	3/4-14	—	2.28	1.18	1.38	1.59	0.49
3/4	6610-12-12	—	1 1/16-12	2.28	1.18	1.38	1.59	0.47
1	6602-16-16	1-11 1/2	—	2.78	1.34	1.62	1.88	0.75
1	6610-16-16	—	1 5/16-12	2.78	1.34	1.62	2.17	0.72

Contact division for BSPP port availability

Replacement Parts

6600 Series

	1/4" Body Size	3/8" Size	1/2" Size	3/4" Size	1" Size
O-Rings - Buna N	2-112N0674-70	2-115N0674-70	2-211N0674-70	2-123NN0674-70	2-126N0674-70
Back-up Rings	4118006	4118005	50-140-4	4138001	4148002

Contact division for BSPP port availability

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Features

The SM Series couplings feature:

- Poppet valves with captive valve seals: the valve seal is positively captured by the metal poppet to minimize seal washout.
- Coupler and nipple are precision machined from solid barstock.
- SM Series are available in female pipe (NPSF), SAE O-Ring Boss and British Pipe (BSPP) as standard.

Applications

SM Series couplings are used across the spectrum of hydraulic applications. These Double Shut-Off couplings can be found anywhere that fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment, and a loss of fluid is undesirable. Designed for use with commercial grades of hydraulic fluids. These couplings are ideally suited for all mobile or industrial applications.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

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		-40° to +250°F	

Performance

Couplers

Female Thread

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)			Wt. (LB.) P/Piece
			A	B	C	
1/4	SM-251-4FP	1/4-18 NPSF	1.89	0.75	1.06	0.24
1/4	SM-251-4FB	G1/4 BSPP	2.04	0.75	1.06	0.26
1/4	SM-251-6FP	3/8-18 NPSF	2.04	0.94	1.06	0.28
1/4	SM-251-6FB	G3/8 BSPP	2.04	0.94	1.06	0.26
1/4	SM-251-6FO	9/16-18UNF	2.04	0.75	1.06	0.25
1/2	SM-501-8FP	1/2-14 NPSF	2.81	1.25	1.56	0.70
1/2	SM-501-8FB	G1/2 BSPP	2.95	1.25	1.56	0.74
1/2	SM-501-12FP	3/4-14 NPSF	2.99	1.37	1.56	0.81
1/2	SM-501-12FB	G3/4 BSPP	3.16	1.37	1.56	0.85
1/2	SM-501-8FO	3/4-16UNF	2.95	1.25	1.56	0.70
3/4	SM-751-12FO	1 1/16-12UN	3.62	1.62	2.25	1.78
3/4	SM-751-12FP	3/4-14 NPSF	3.62	1.62	2.22	1.83
3/4	SM-751-12FB	G3/4 BSPP	3.76	1.62	2.22	1.88
3/4	SM-751-16FP	1-11 1/2 NPSF	3.90	1.62	2.22	1.84
3/4	SM-751-16FB	G 1 BSPP	3.90	1.62	2.22	1.89
3/4	SM-751-16FO	1-5/16-12UN	3.90	1.62	2.22	1.89

Nipples

Female Thread

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)				Wt. (LB.) P/Piece
			D	E	F	G	
1/4	SM-252-4FP	1/4-18 NPSF	1.29	0.50	0.75	0.87	0.08
1/4	SM-252-4FB	G1/4 BSPP	1.44	0.65	0.75	0.87	0.09
1/4	SM-252-6FP	3/8-18 NPSF	1.60	0.81	0.94	1.08	0.14
1/4	SM-252-6FB	G3/8 BSPP	1.60	0.81	0.94	1.08	0.14
1/4	SM-252-6FO	9/16-18UNF	1.44	0.55	0.75	0.87	0.08
1/2	SM-502-8FO	3/4-16UNF	2.27	0.72	1.06	1.23	0.16
1/2	SM-502-8FP	1/2-14 NPSF	1.81	0.45	1.06	1.23	0.15
1/2	SM-502-8FB	G1/2 BSPP	1.96	0.60	1.06	1.23	0.18
1/2	SM-502-12FP	3/4-14 NPSF	2.27	0.90	1.37	1.59	0.30
1/2	SM-502-12FB	G3/4 BSPP	2.44	1.07	1.37	1.59	0.34
3/4	SM-752-12FO	1 1/16-12UN	2.33	0.39	1.50	1.73	0.48
3/4	SM-752-12FP	3/4-14 NPSF	2.33	0.39	1.50	1.73	0.52
3/4	SM-752-12FB	G3/4 BSPP	2.79	0.53	1.50	1.73	0.56
3/4	SM-752-16FP	1-11 1/2 NPSF	2.61	0.67	1.62	1.88	0.56
3/4	SM-752-16FB	G 1 BSPP	2.61	0.67	1.62	1.88	0.68
3/4	SM-752-16FO	1-5/16-12UN	2.61	0.67	1.62	1.88	0.68

NPSF – National Pipe Straight Fuel
BSPP – British Standard Pipe Parallel

Optional Seals

Optional Seals Suffix* (Standard seals are Buna-N)	
E4	Viton (Trademark of DUPONT)
E5	Ethylene Propylene (EPR)
E12	Neoprene
E47	Perfluoroelastomer (Kalrez™)

* See Ordering Information at end of Section B.

Features

- Operating pressures up to 5,000 PSI (350 Bar).
- Soft seat valving prevents leakage when coupler and nipple are disconnected.
- Made of Carbon Steel. Exterior yellow chromate plated for corrosion resistance.
- Smooth Flow Path Minimizes Pressure Drop.
- Buna-N Body Seal supported by Teflon™ washer. Backup washer keeps seal from extruding at high pressures.
- Heat Treated Nipple and Heavy Duty Locking Collar withstands high pressure surges, hose twist and repeated pressure pulses.
- Buna-N Seals for General Purpose Hydraulic Applications.

Specifications

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

Performance

HP Coupling Connected Mode

Body size	Overall Length
	A
1	5.27
1 1/2	5.92

Couplers

Body size	Part No.	Thread Size	Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
			B	C	D	
1	HP–1001-16FP	1.0-11.5 NPSF	3.95	1.62	2.38	2.10
1 1/2	HP–1501-24FP	1.5-11.5 NPTF	4.34	2.25	3.00	4.40

Nipples

Body size	Part No.	Thread Size	Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
			E	F	G	
1	HP–1002-16FP	1.0-11.5 NPSF	3.00	1.62	1.88	0.84
1 1/2	HP–1502-24FP	1.5-11.5 NPTF	3.47	2.25	2.63	1.85

Accessories

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

Features

Parker 4000 Series couplings feature:

- Poppet valves available to prevent uncoupled leakage.
- Ball valves available for rugged dependability in heavy-duty hydraulic applications, within rated working pressures.
- Critical parts are induction hardened for durability.
- Dependable ball-locking mechanism holds the mating halves together.
- Couplers and nipple are precision machined from solid bar stock.

Applications

The 4000 Series brings to the industry a proven design for use on construction equipment, forestry equipment, agricultural machinery, oil tools, steel mill machinery, and other demanding hydraulic applications.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Special Order Information

Standard seal material is Buna-N (Nitrile), other seal options are available. See Ordering Information at end of Section B and Fluid Compatability Chart at end of this catalog for assistance in making seal selection.

Note: The part numbers for the 4000 Series Poppet Valve design are designated with a -P. For example 4050-4P.

Specifications

Body Size	1/4	3/8	1/2	3/4	1
Rated Pressure (PSI)	3000	3000	3000	3000	3000
Rated Flow (GPM)	3	6	12	28	50
Temperature Range (std seals)	-40° to +250°F				

Performance

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

Couplers

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
1/4	4050-2	1/4-18	–	1.94	0.75	1.08	0.24
1/4	4050-2P	1/4-18	–	1.94	0.88	1.06	0.24
1/4	4050-2P-T8M	–	3/4-16 (Male)	1.80	0.88	1.06	0.21
1/4	4050-T6	–	9/16-18	2.18	0.88	1.06	0.27
*1/4	4050P-T6	–	9/16-18	2.43	0.88	1.33	0.33
3/8	4050-3	3/8-18	–	2.31	0.94	1.33	0.51
1/2	4050-4	1/2-14	–	2.60	1.06	1.52	0.58
1/2	4050-4P	1/2-14	–	2.60	1.06	1.52	0.58
1/2	4050-5	3/4-14	–	2.69	1.13	1.52	0.71
1/2	4050-5P	3/4-14	–	2.69	1.13	1.52	0.71
1/2	4050-15	–	3/4-16	2.81	1.06	1.52	0.64
1/2	4050-15P	–	3/4-16	2.81	1.06	1.52	0.64
1/2	4050-16	–	7/8-14	2.75	1.06	1.52	0.59
1/2	4050-16P	–	7/8-14	2.75	1.06	1.52	0.59
3/4	4150-5	3/4-14	–	3.50	1.38	1.90	1.00
*1	4050-6P	1-11 1/2	–	3.84	1.63	2.08	1.89

* Push-to-Connect design with soft seat.

Nipples

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/4	4010-2	1/4-18	–	1.31	0.63	0.75	0.87	0.08
1/4	4010-2P	1/4-18	–	1.31	0.63	0.75	0.87	0.08
1/4	4010-T6	–	9/16-18	1.55	0.87	0.75	0.87	0.09
3/8	4010-3	3/8-18	–	1.60	0.80	0.94	1.08	0.16
1/2	8010-4	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-4P	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-5	3/4-14	–	2.14	1.28	1.25	1.44	0.25
1/2	8010-5P	3/4-14	–	2.14	1.28	1.25	1.44	0.25
1/2	8010-15	–	3/4-16	2.06	1.20	1.06	1.23	0.20
1/2	8010-15P	–	3/4-16	2.06	1.20	1.06	1.23	0.20
1/2	8010-16	–	7/8-14	2.05	1.18	1.06	1.23	0.25
1/2	8010-16P	–	7/8-14	2.05	1.18	1.06	1.23	0.25
3/4	4110-5	3/4-14	–	1.81	1.23	1.31	1.52	0.50
1	4010-6P	1-11 1/2	–	2.79	1.49	1.63	1.88	0.62

Replacement Parts

4000 Series

	1/4" Body Size	3/8" Body Size	1/2" Body Size	3/4" Body Size	1" Body Size
O-Rings - Buna N	2-113N0552-90	2-116N0552-90	2-211N0552-90	50001-215-0010	2-218N0552-90

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Features

Parker 4200 Series couplings feature:

- Double acting sleeve for one handed operation when coupler is clamp or bulkhead mounted.
- Poppet valves available to prevent uncoupled leakage.
- Ball valves available for rugged dependability in heavy-duty hydraulic applications, within rated working pressures.
- Critical parts are induction hardened for durability.
- Dependable ball-locking mechanism holds the mating halves together.
- Couplers and nipple are precision machined from solid bar stock.

Applications

The 4200 Series brings to the industry a proven design for use on construction equipment, forestry equipment agricultural machinery, and oil tools.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size	3/8	1/2
Rated Pressure (PSI)	3000	3000
Rated Flow (GPM)	6	12
Temperature Range (std seals)	-40° to +250°F	

Performance

Special Order Information

Standard seal material is Buna-N (Nitrile), other seal options are available. See Ordering Information at end of Section B and Fluid Compatability Chart at end of this catalog for assistance in making seal selection.

Note: The part numbers for the 4200 Series Poppet Valve design are designated with a -P. For example 4250-4P.

Couplers

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
3/8	4250-3P	3/8-18	–	2.31	0.81	1.31	0.39
1/2	4250-4	1/2-14	–	2.68	0.94	1.50	0.55
1/2	4250-4P	1/2-14	–	2.68	0.94	1.50	0.55
1/2	4250-15	–	3/4-16	2.68	0.94	1.50	0.55
1/2	4250-15P	–	3/4-16	2.68	0.94	1.50	0.55

Nipples

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
3/8	4010-3P	3/8-18	–	1.60	0.80	0.94	1.08	0.16
1/2	8010-4	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-4P	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-15	–	3/4-16	2.06	1.20	1.06	1.23	0.20
1/2	8010-15P	–	3/4-16	2.06	1.20	1.06	1.23	0.20

Replacement Parts - 4200 Series

Body Size	Part Number	Description	Material
1/2"	2-211N0552-90	O-Rings	Buna-N
3/8"	2-116N0552-90	O-Rings	Buna-N

Applications

The 8200 Series brings to the industry a proven design for use on construction equipment, forestry equipment, agricultural machinery, oil tools, steel mill machinery, and other demanding hydraulic applications.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Special Order Information

Standard seal material is Buna-N (Nitrile), other seal options are available. See Ordering Information at end of Section B and Fluid Compatability Chart at end of this catalog for assistance in making seal selection.

Features

Parker 8200 Series couplings feature:

- Unique valve design permits connection while either or both the coupler and nipple are under pressure.
- Double acting sleeve for one handed operation when coupler is clamp or bulkhead mounted.
- Critical parts are hardened for durability.
- Dependable ball locking mechanism holds the mating halves together.
- Couplers and nipples are precision machined from solid bar stock.

Specifications

Body Size	1/2
Rated Pressure (PSI)	3000
Rated Flow (GPM)	12
Temperature Range (std seals)	-40° to +250°F

Performance

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Minneapolis, MN 55427

Couplers

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPSF	Thread Size ORB	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
1/2	8250-4	1/2-14	–	3.29	0.87	1.50	0.63
1/2	8250-15	–	3/4-16	3.29	0.87	1.50	0.63
1/2	8250-16	–	7/8-14	3.29	0.87	1.50	0.63

Nipples

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/2	8010-4	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-4P	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-15	–	3/4-16	2.06	1.20	1.06	1.23	0.20
1/2	8010-15P	–	3/4-16	2.06	1.20	1.06	1.23	0.20
1/2	8010-16	–	7/8-14	2.05	1.18	1.06	1.23	0.25
1/2	8010-16P	–	7/8-14	2.05	1.18	1.06	1.23	0.25

Replacement Parts - 8200 Series

Body Size	Part Number	Description	Material
1/2"	50005-211-0202	O-Rings	Buna-N

Applications

Non-Spill couplings by Parker are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change of hydraulic hand tools in the construction, railway maintenance and mining industries. They are also ideal for in-plant use where excess oil spillage can create a hazard.

Note

Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap.

See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Performance

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

Features

1. Positive valve stop. The perch maintains valve alignment and provides metal to metal valve stop to ensure that the valves open fully, every time.
2. Captive valve seal assures “bubble tight” poppet sealing. The valve seal is positively captured by the metal poppet to minimize seal washout or damage from high velocity fluid.
3. Hardened nipples and sleeves and solid barstock construction make for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock.
4. The seal is designed to withstand high pressures and provide reliable sealing. 1/2" and above sizes feature teflon back-up rings that support mating seals for high pressure applications.
5. Durable ball-locking assure reliable connection, every time. A large number of locking balls distribute the work load evenly while providing alignment and swiveling action to reduce hose torque and prolong hose life.

   CAUTION: these products are not to be used as swivels, rotation under pressure will result in excessive and premature wear.
6. Female pipe (NPSF), SAE O-Ring Boss and British pipe (BSPF) are available as standard.
7. Dry-Disconnect Series couplings employ flush valving when connecting or disconnecting. This means that the valves are mated together so that only small amounts of fluid can be lost during disconnection or air included during reconnection.
8. Sleeve locking mechanism prevents accidental disconnection when the coupling is dragged along the ground. Sleeve is rotated to engage the lock.

Specifications

Body Size	3/8	1/2	3/4	1
Rated Pressure (PSI)	2500	2500	2500	2500
Rated Flow (GPM)	10	15	30	50
Temperature Range (std seals)	-40° to +250°F			
Spillage (max. per disconnect)	.02 ML	.07 ML	.15 ML	.22 ML
Air Incl. (max. per disconnect)	.01 ML	.02 ML	.05 ML	.07 ML

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Minneapolis, MN 55427

Couplers

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
3/8	NS-371-6FP	3/8-18 NPSF	2.10	1.06	1.13	0.36
3/8	NS-371-6FB	G3/8 BSPP	2.10	1.06	1.13	0.38
3/8	NS-371-8FO	3/4-16UNF	2.20	1.06	1.13	0.40
1/2	NS-501-8FP	1/2-14 NPSF	2.88	1.25	1.56	0.80
1/2	NS-501-8FB	G1/2 BSPP	2.95	1.25	1.56	0.74
1/2	NS-501-10FO	7/8-14UNF	2.97	1.25	1.56	0.80
3/4	NS-751-12FP	3/4-14 NPSF	3.19	1.56	1.96	1.48
3/4	NS-751-12FB	G3/4 BSPP	3.38	1.56	1.96	1.54
3/4	NS-751-12FO	1 1/16-12UN	3.51	1.56	1.96	1.58
1	NS-1001-16FP	1-11 1/2 NPSF	3.70	1.75	2.25	2.35
1	NS-1001-16FB	G 1 BSPP	3.81	1.75	2.25	2.36
1	NS-1001-16FO	1 5/16-12UN	3.81	1.75	2.25	2.36

Nipples

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
3/8	NS-372-6FP	3/8-18 NPSF	1.70	1.17	0.94	1.08	0.16
3/8	NS-372-6FB	G3/8 BSPP	1.78	1.25	0.94	1.08	0.16
3/8	NS-372-8FO	3/4-16UNF	1.91	1.38	1.06	1.23	0.20
1/2	NS-502-8FP	1/2-14 NPSF	1.81	0.69	1.06	1.23	0.20
1/2	NS-502-8FB	G1/2 BSPP	1.95	0.83	1.06	1.23	0.22
1/2	NS-502-10FO	7/8-14UNF	2.14	1.02	1.12	1.30	0.28
3/4	NS-752-12FP	3/4-14 NPSF	2.25	1.12	1.37	1.59	0.48
3/4	NS-752-12FB	G3/4 BSPP	2.47	1.34	1.37	1.59	0.54
3/4	NS-752-12FO	1 1/16-12UN	2.62	1.49	1.37	1.59	0.65
1	NS-1002-16FP	1-11 1/2 NSPF	2.64	1.54	1.62	1.88	0.72
1	NS-1002-16FB	G 1 BSPP	2.78	1.68	1.62	1.88	0.74
1	NS-1002-16FO	1 5/16-12UN	2.87	1.77	1.62	1.88	0.80

NPSF – National Pipe Straight Fuel
BSPP – British Standard Pipe Parallel

Optional Seals

Optional Seals Suffix*	
E4	Viton (Trademark of DUPONT)
E5	Ethylene Propylene (EPR)
E12	Neoprene
E47	Perfluoroelastomer (Kalrez™)

* See Ordering Information at end of Section B.

Features

- Flush valving on the male half.
- Recess valving on female half to guide in male.
- Connects with full pressure (3,000 psi) on the male half, female half at zero pressure.
- Operating sequence: Connect the coupling halves (female must be at zero pressure). Pressurize the female half to open the male half poppet.
- Simple push-to-connect.
- Pull locking sleeve to disconnect.
- Steel construction with zinc chromate yellow finish.
- Buna-N Nitrile seals.
- Interchangeable with Parker standard NS-502 male half.

Specifications

Body Size	1/2"
Rated Pressure (PSI)	3000
Rated Flow (GPM)	12
Temperature Range	-40° to +250°F
Spillage (ML) (max. per disconnect)	.070
Air Inclusion (ML) (max. per connect)	.020

Applications

- Construction vehicles with various hydraulic operated attachments.
- Pressure frequently builds up in the disconnected attachment, making it difficult to re-connect. The solution is the NC Series Connect-Under-Pressure Coupling. Install the coupling Male Half on the attachment hose, and the coupling Female Half on the vehicle hose.

Performance:

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

1/2" Coupler

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/2	NC-501-10FO	.875-14 UNF-2 -10 ORB	3.17	1.43	1.56	0.80

1/2" Nipple

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	
1/2	NS-502-10FO	.875-14 UNF-2 -10 ORB	2.14	1.12	1.30	0.28

Applications

Parker Non-Spill Adapters were designed due to the widespread use of several coupling types in the construction market. These adapters help the user adapt between poppet style couplings and non-spill type couplings. Adapters are widely available with Parker FE and FF Series to Parker 6600 Series coupling connections. This product is especially useful where multiple hydraulic attachments are being used with skid steer loaders.

Materials Of Construction

Body: Steel

Finish: Zinc plated with yellow chromate finish

Specifications

Body Size	1/2"
Rated Pressure (PSI)	5000
Temperature Range	-40° to + 250°F
Rated Pressure – EAS/SAE	3625
Rated Pressure – FAS/SAF	3000
Max Spillage Per Disconnect (ml.) (Flush Face End)	.020
Max Air Inclusion Upon Connect (ml.) (Flush Face End)	.070

Performance

FE/FF to 6600 Adapter (1/2")

Test Fluid: Oil - SUS 200

Adapters

EAS-500

SAE-500

FAS-500

SAF-500

Body Size	Part Number	Thread Size	Overall Length	Hex Size	Largest Diameter
1/2	EAS-500	NA	3.364	1.380	1.50
1/2	SAE-500	NA	3.000	1.250	1.48
1/2	FAS-500	NA	3.390	1.380	1.54
1/2	SAF-500	NA	2.95	1.125	1.48

How To Order

Adapter Part Number

E A S – 500

- **500** — **1/2" Body Size**
- **S** — **Male Half of Adapter**
  - E – FE Series (European Standard)
  - F – FF Series
  - S – 6600 Series
- **A** — **Adapter Series**
- **E** — **Female Half of Adapter**
  - E – FE Series (European Standard)
  - F – FF Series
  - S – 6600 Series

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Applications

Parker FF Series couplings are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change of hydraulic tools in construction, railway maintenance and mining industries. The ease of cleaning makes them ideal for use in these types of hostile environments.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size	1/4	3/8	1/2	3/4	1
Rated Pressure (PSI)	5000	3000	3000	3000	3000
Rated Flow (GPM)	3	6	12	28	50
Temperature Range	-40° to + 250°F				
Spillage (ML) (max. per disconnect)	.015	.015	.020	.150	.200
Air Inclusion (ML) (max. per connect)	.020	.020	.070	.100	.150

Performance

Features

1. Sleeve locking mechanism is engaged by rotating sleeve after connection. It prevents accidental disconnection when, for example, the coupling is dragged along the ground during use.
2. Sleeve mechanism is designed to help prevent dirt from entering the internal mechanism and thus causing faulty operation when connecting or disconnecting. The sleeve covers the retaining ring and also incorporates a dust seal in the spring area.
3. Hardened nipples and sleeves and solid barstock construction make for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock.
4. This Anti-Blowout BFT seal is designed to prevent blow-out or damage during severe service conditions.
5. Durable ball-locking mechanism assures reliable connections, every time. A large number of locking balls distributes the work load evenly while providing alignment and swiveling action to reduce hose torque and prolong hose life. CAUTION: These products are not to be used as swivels. Rotation under pressure will result in excessive and premature wear.
6. Female pipe (NPSF), British pipe (BSPP) and SAE O-Ring Boss are available as standard.
7. FF Series couplings employ flush valving when connecting or disconnecting. This means that the valves are mated together so that only small amounts of fluid can be lost during disconnection or air inclusion during reconnection.
8. The 3/8" size conforms to HTMA (Hydraulic Tool Manufactures Association) standards. All sizes incorporate flush face mating surfaces which greatly facilitate cleaning of the product when disconnected. HTMA couplings (3/8" only)-coupler and nipple are marked with a directional flow arrow as per specifications. However, couplings are bi-directional.

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Couplers

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/4	FF-251-4FP	1/4-18 NPSF	1.79	1.00	1.06	0.23
1/4	FF-251-4MP	1/4-18 NPTF	1.84	1.00	1.06	0.24
1/4	FF-251-6F0	9/16-18 UNF	1.91	1.00	1.06	0.23
3/8	FF-371-6FP	3/8-18 NPSF	2.39	1.06	1.20	0.44
3/8	FF-371-8FP	1/2-14 NPSF	2.80	1.06	1.20	0.50
3/8	FF-371-6FB	G3/8 BSPP	2.45	1.06	1.20	0.45
3/8	FF-371-8FB	G1/2 BSPP	2.80	1.06	1.20	0.48
3/8	FF-371-8FO	3/4-16 UNF	2.80	1.06	1.20	0.52
1/2	FF-501-8FP	1/2-14 NPSF	2.67	1.37	1.58	0.88
1/2	FF-501-10FO	7/8-14 UNF	2.86	1.37	1.58	1.05
3/4	FF-751-12FP	3/4-14 NPSF	3.50	1.75	1.94	1.84
3/4	FF-751-12FO	1 1/16-12 UNF	3.73	1.75	1.94	1.93
1	FF-1001-16FP	1-11 1/2NPSF	4.14	1.87	2.25	2.64
1	FF-1001-16FO	1 5/16-12UNF	4.23	1.87	2.25	2.68

Nipples

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/4	FF-252-4FP*	1/4-18 NPSF	1.66	1.15	1.00	1.06	0.16
1/4	FF-252-4MP*	1/4-18 NPTF	1.72	1.18	1.00	1.06	0.26
1/4	FF-252-6F0*	9/16-18 UNF	1.66	1.15	1.00	1.06	0.16
3/8	FF-372-6FP*	3/8-18 NPSF	2.31	1.71	0.94	1.08	0.26
3/8	FF-372-8FP*	1/2-14 NPSF	2.64	2.04	1.06	1.19	0.32
3/8	FF-372-6FB*	G3/8 BSPP	2.45	1.86	0.94	1.08	0.28
3/8	FF-372-8FB*	G1/2 BSPP	2.70	2.16	1.06	1.19	0.32
3/8	FF-372-8FO*	3/4-16 UNF	2.70	2.16	1.06	1.19	0.30
1/2	FF-502-8FP*	1/2-14 NPSF	2.75	2.11	1.12	1.30	0.42
1/2	FF-502-10FO*	7/8-14 UNF	2.97	2.29	1.12	1.30	0.44
3/4	FF-752-12FP*	3/4-14 NPSF	3.38	2.47	1.50	1.73	1.00
3/4	FF-752-12FO*	1 1/16-12 UNF	3.58	2.64	1.50	1.73	1.02
1	FF-1002-16FP*	1-11 1/2NPSF	3.85	2.60	1.87	2.17	1.60
1	FF-1002-16FO*	1 5/16-12UNF	3.85	2.60	1.87	2.17	1.70

* Includes Anti blow-out seal (BFT) as standard (E49)
NPSF – National Pipe Straight Fuel
BSPP – British Standard Pipe Parallel

Optional Seals

Optional Seals Suffix*	
– E4	Viton™ Seals (Trademark of DUPONT)
– E5	Ethylene Propylene (EPR)
– E12	Neoprene
– E47	Perfluoroelastomer (Kalrez™)

* See Ordering Information at end of Section B.

FF Series Repair Kits

Size	1/4" Nipple	3/8" Nipple	1/2" Nipple	3/4" Nipple	1" Nipple	1/4" Coupler	3/8" Coupler	1/2" Coupler	3/4" Coupler	1" Coupler
Part	FF-252-KIT	FF-372-KIT	FF-502-KIT	FF-752-KIT	FF-1002-KIT	FF-251-KIT	FF-371-KIT	FF-501-KIT	FF-751-KIT	FF-1001-KIT
No.	FF-252-KIT-E4	FF-372-KIT-E4	FF-502-KIT-E4	FF-752-KIT-E4	FF-1002-KIT-E4	FF-251-KIT-E4	FF-371-KIT-E4	FF-501-KIT-E4	FF-751-KIT-E4	FF-1001-KIT-E4
	FF-252-KIT-E5	FF-372-KIT-E5	FF-502-KIT-E5	FF-752-KIT-E5	FF-1002-KIT-E5	FF-251-KIT-E5	FF-371-KIT-E5	FF-501-KIT-E5	FF-751-KIT-E5	FF-1001-KIT-E5
						FF/FS-251-TOOL	FF/FS-371-TOOL	FF-501-TOOL	FF-751-TOOL	FF/FS-1001-TOOL

Features

- Sealed spring cavity prevents dust collection and possible sleeve binding.
- Heat treated valve sleeve and poppet resist scratches and wear.
- Crimped valve seal prevents seal washout.
- Hardened locking collar sleeve resists brinelling, avoids cracking and provides longer life.
- Large number of locking balls resists brinelling.
- Concealed lock ring prevents accidental removal.
- Yellow chromate zinc finish resists corrosion.
- Positive lock retaining ring will not wash out under high flow conditions.
- Induction hardened locking surface reduces wear and brinelling.
- Anti-blowout Nitrile and BFT nipple seal prevents damage and blow-out when connecting with residual pressure.

Applications

Parker FE Series couplings were designed for the construction equipment market and are used extensively on skid steer loaders. The non-spill feature eliminates hydraulic spillage and air inclusion when connecting or disconnecting hydraulic attachments. The FE Series is also ideal for many other applications where hydraulic spillage is a concern and global interchangeability with other manufacturers is important.

Materials Of Construction

Body: Steel

Finish: Zinc plated with yellow chromate finish

Valve: Flush face valving

Seal: Anti blow-out NBR Nitrile with BFT seal

Specifications

Body Size	1/2	5/8
Rated Pressure (PSI)	3000	3625
Temperature Range	-40° to + 250°F	
Spillage (ML) (max. per disconnect)	0.020	0.030
Air Inclusion (ML) (max. per connect)	0.070	0.070
Rated Flow (GPM)	12	20

Performance

FE Series 1/2" & 5/8"
Test Fluid: Oil-200 SUS

Couplers

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/2"	FE-501-8FP*	1/2-14 NPSF	2.65	1.38	1.58	
1/2"	FE-501-12FO*	1-1/16-12 UNF	3.10	1.38	1.58	
5/8"	FE-621-12F0*	1-1/16-12 UNF	3.67	1.62	1.74	

* Non Sleeve Lock available – add "–NL" to part number

Nipples

Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/2"	FE-502-8FP	1/2-14 NPSF	2.77	1.96	1.25	1.38	
1/2"	FE-502-12FO	1-1/16-12 UNF	3.05	2.20	1.38	1.50	
5/8"	FE-622-12F0	1-1/16-12 UNF	3.40	2.60	1.50	1.65	

Description

FC Series products operate slightly different from traditional non-spill couplings. With no pressure in the female coupler and up to 3000 psi of trapped pressure in the male, 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

Applications

Parker FC Series male coupling halves provide connect-under-pressure capability with up to 3000 psi of trapped pressure in the male half and are ideal for applications where residual pressure makes reconnect difficult. Utilized primarily in the construction equipment market, FC Series products are commonly found on hydraulic attachments used in skid steer applications. **The FC Series mates with the FF Series Parker interface.**

Features

- Connect-Under-Pressure Male Half Only
- Hardened Locking Surface
- Zinc Plated with Yellow Chromate Finish
- Anti Blowout BFT Seals
- Flush Face Valving

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size	3/8"	1/2"	3/4"
Rated Pressure (PSI)	3000	3000	3000
Rated Connect-Under-Pressure Capability	3000	3000	3000
Rated Flow (GPM)	6	12	26
Spillage (ML) (max. per disconnect)	.015	.020	.015
Air Inclusion (ML) (max. per connect)	.020	.070	.100

Nipples

Body Size (in.)	Part No. Steel	Mating Half	Thread Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
3/8	FC-372-6FP	FF-371	3/8-18 NPSF	3.30	2.58	1.062	1.16	
3/8	FC-372-8FO*	FF-371	3/4-16 UNF	3.30	2.58	1.062	1.16	
3/8	FC-372-8FP*	FF-371	1/2-14 NPSF	3.30	2.58	1.062	1.16	
1/2	FC-502-8FP	FF-501	1/2-14 NPSF	3.46	2.65	1.125	1.22	
1/2	FC-502-10FO	FF-501	7/8-14 UNF	3.46	2.65	1.125	1.22	
3/4	FC-752-12FO	FF-751	1 1/16-12 UNF	4.81	3.72	1.500	1.65	
3/4	FC-752-12FP	FF-751	3/4-14 UNF	4.81	3.72	1.500	1.65	

Description

FEC Series products operate slightly different from traditional non-spill couplings. With no pressure in the female coupler and up to 3000 psi of trapped pressure in the male, 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

Applications

Parker FEC Series male coupling halves provide connect-under-pressure capability with up to 3000 psi of trapped pressure in the male half 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 FE Series European interface ISO 16028 couplers.**

Features

- Connect-Under-Pressure Male Half Only
- Hardened Locking Surface
- Zinc Plated with Yellow Chromate Finish
- Anti Blowout BFT Seals
- Flush Face Valving

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size	1/2"
Rated Pressure (PSI)	3000
Rated Connect-Under-Pressure Capability	3000
Rated Flow (GPM)	12
Spillage (ML) (max. per disconnect)	.020
Air Inclusion (ML) (max. per connect)	.070

Nipples

Body Size (in.)	Part No. Steel	Mating Half	Thread Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/2	FEC-502-8FP	FE-501	1/2-14 NPSF	3.50	2.68	1.125	1.22	
1/2	FEC-502-10FO	FE-501	7/8-14 UNF	3.50	2.68	1.125	1.22	
1/2	FEC-752-12FO	FE-501	1 1/16-12 UNF	3.79	2.97	1.500	1.65	

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Parker FH Series high pressure couplings are an innovative product combining the advantages of a flush-face design with a highly technical performance of a rated pressure of 10,000 psi. For safety purposes, this product does not interchange with flush-face couplings having a lower pressure rating.

Features

- 10,000 psi Operating Pressure (700 bar)
- Flush Face, Non-Spill Valving, Both Halves
- Simple Push-To-Connect Operation
- Sleeve-Lock To Prevent Accidental Disconnect
- Non Interchangeable With Low Pressure Flush Face Couplings
- Meets HTMA Performance And Dimensional Specifications

Applications

- Hydraulic Crimpers, Cutters, Jacks, Benders, Clamps, Wedges
- Rescue Equipment
- High Pressure Test Equipment

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Sleeve on coupler is red. Nipple is also red.

Performance

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

Couplers

Body Size (in.)	Part No. Steel	Thread Size	Material	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
3/8	FH-371-6FP	3/8 Female Pipe NPTF	Steel	2.63	1.12 Hex	1.23	0.44
3/8	FH-371-6MP	3/8 Male Pipe NPTF	Steel	2.85	1.12 Hex	1.23	0.45
3/8	FH-371-6FB	3/8 Female British Pipe	Steel	2.55	1.12 Hex	1.23	0.45

Nipples

Body Size (in.)	Part No. Steel	Thread Size	Material	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	
3/8	FH-372-6FP	3/8 Female Pipe NPTF	Steel	2.12	1.00 Hex	1.23	0.26
3/8	FH-372-6FB	3/8 Female British Pipe	Steel	2.12	1.00 Hex	1.23	0.28

Applications

Parker FS Series couplings virtually eliminate fluid loss upon disconnection, and minimize air inclusion during connections. They are ideal for use where spillage may cause undesireable conditions or constitute a safety hazard. The FS Series couplings have double shut-off flush mating valves that are suitable for sealing off media in chemical processing, chemical dispensing, food processing, and other corrosive applications. Working pressures to 2000 psi.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size	1/4"	3/8"	1/2"	3/4"	1"
Rated Pressure (PSI)	2000	2000	2000	2000	2000
Rated Flow (GPM)	3	6	12	28	50
Spillage (ML) (max. per disconnect)	.015	.015	.020	.150	.250
Air Inclusion (ML) (max. per connect)	.010	.020	.070	.100	.182

Temperature Range (continuous)		
Part No. Seal Suffix	"O" Ring Compound	Temp°F Rating
None*	Fluorocarbon (Viton™)	-20 to 400
E5	Ethylene Propylene (EPR)	-65 to 300
E1	Nitrile (Buna-N™)	-40 to 250
E47	Perfluoroelastomer (Kalrez™)	-20 to 600

*Viton is standard seal.

Features

- Simple to operate: Push to connect, pull on knurled sleeve to disconnect.
- Flush face valves exhibit minimal spillage upon disconnect and minimal air inclusion upon connect.
- Superior locking ball design – a large number of locking balls distribute the workload better and allow for some rotation between the male and female halves of the coupling under pressure.
- Excellent flow vs pressure drop characteristics when compared with other low spill quick couplings.
- Material construction is 316 stainless steel with fluorocarbon (Viton™) seals as standard.
- Wide range of seal materials available.
- Repair kits available to replace critical elastomer seals (all sizes).
- Coupling sealing integrity is approximately 1 x 10-6 std. c^2/sec. Helium under 50 millitorr of vacuum.

Materials of Construction

Machined Parts:	Stainless Steel, AISI type 316
Springs:	Stainless Steel, AISI type 316.
Locking Balls:	1/4" - 302 SS; 3/8" - 1" - Tungsten Carbide
Backup Washers:	Teflon™
Elastomer Seals:	Viton™ is standard. Wide range is available.

Performance Flow Data

FS Series (1/4; 3/8; 1/2; 3/4; 1")
Test Fluid: Water

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Couplers

Female Pipe Thread

Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
3/8	FS-371-6FP	3/8-18 NPT	2.52	1.06	1.30	0.58
1/2	FS-501-8FP	1/2-14 NPT	2.74	1.38	1.58	0.92
3/4	FS-751-12FP	3/4-14 NPT	3.63	1.75	1.99	2.00
1	FS-1001-16FP	1-11 1/2 NPT	4.14	1.87	2.25	2.76

Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/4	FS-251-4FP	1/4-18 NPT	1.79	1.00	1.06	0.25

Male Pipe Thread

Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/4	FS-251-4MP	1/4-18 NPTF	2.00	1.00	1.06	0.25

SAE Straight Thread

Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/4	FS-251-6FO	9/16-18 UNF	1.79	1.00	1.06	0.24
3/8	FS-371-8FO	3/4-16 UNF	2.83	1.12	1.30	0.63
1/2	FS-501-10FO	7/8-14 UNF	2.86	1.38	1.58	0.96
3/4	FS-751-12FO	1-1/16-12 UNF	3.73	1.75	1.99	2.12
1	FS-1001-16FO	1-5/16-12 UNF	4.24	1.87	2.25	2.80

Nipples

Female Pipe Thread

Body Size (in.)	Part No.	Thread Size	Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
3/8	FS-372-6FP	3/8-18 NPT	2.31	1.71	.94	1.08	0.26
1/2	FS-502-8FP	1/2-14 NPT	2.75	2.11	1.12	1.30	0.44
3/4	FS-752-12FP	3/4-14 NPT	3.38	2.47	1.50	1.73	1.02
1	FS-1002-16FP	1-11 1/2 NPT	3.85	2.60	1.87	2.17	1.60

Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	
1/4	FS-252-4FP	1/4-18 NPT	1.66	1.00	1.06	0.18

Male Pipe Thread

Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	
1/4	FS-252-4MP	1/4-18 NPTF	1.87	1.00	1.06	0.18

* Denotes Male Pipe Thread

SAE Straight Thread

Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	
1/4	FS-252-6FO	9/16-18 UNF	1.66	1.00	1.06	0.17
3/8	FS-372-8FO	3/4-16 UNF	2.45	1.06	1.19	0.30
1/2	FS-502-10FO	7/8-14 UNF	2.85	1.12	1.30	0.48
3/4	FS-752-12FO	1-1/16-12 UNF	3.38	1.50	1.73	1.14
1	FS-1002-16FO	1-5/16 12 UNF	3.85	1.87	2.17	1.64

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

	Replacement Seals	
TOOL Spline tool for Coupler (female half) Repair	E5	Ethylene Propylene (EPR)
	E47	Perfluoroelastomer (Kalrez™)
	No Suffix	Standard Viton™ Seals

Nipple Repair Kits

Size	1/4" Nipple	3/8" Nipple	1/2" Nipple	3/4" Nipple	1" Nipple
Part	FS-252-KIT	FS-372-KIT	FS-502-KIT	FS-752-KIT	FS-1002-KIT
No.	FS-252-KIT-E5	FS-372-KIT-E5	FS-502-KIT-E5	FS-752-KIT-E5	FS-1002-KIT-E5
	FS-252-KIT-E47	FS-372-KIT-E47	FS-502-KIT-E47	FS-752-KIT-E47	FS-1002-KIT-E47

Coupler Repair Kits

Size	1/4" Coupler	3/8" Coupler	1/2" Coupler	3/4" Coupler	1" Coupler
	FS-251-KIT	FS-371-KIT	FS-501-KIT	FS-751-KIT	FS-1001-KIT
Part	FS-251-KIT-E5	FS-371-KIT-E5	FS-501-KIT-E5	FS-751-KIT-E5	FS-1001-KIT-E5
No.	FS-251-KIT-E47	FS-371-KIT-E47	FS-501-KIT-E47	FS-751-KIT-E47	FS-1001-KIT-E47
	FF/FS-251-TOOL	FF/FS-371-TOOL	FS-501-TOOL	FF/FS751-TOOL	FF/FS-1001-TOOL

Applications

Parker's 6100 Series, thread-to-connect couplings can be used in a wide range of industrial applications where heavy-duty couplings are required that can be connected under pressure, with little or no spillage. The 6100 is ideal for connecting hydraulic lines on oil field equipment like power tongs, swivels and mobile drilling rigs. It is also widely used on dump trailers to connect the tractor to wet-line hydraulic systems.

Other uses include: submersible pumps, engine test stands, and many other applications where high pressure, heavy duty couplings are required.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

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	3000	3000	3000	2750	2000
Male Half	3000	3000	3000	2500	2500
Complete Coupling Assembly	3000	3000	3000	2750	2500
Rated Flow (GPM)	12	28	50	76	100
Temperature Range (std seals)	-40° to +250°F.				

* Minimum burst pressure is equal to three times the rated pressure.
Not recommended for continuous hydraulic impulse applications at rated pressures.

Performance

6100 Series (1/2; 3/4; 1;1 1/4;1 1/2")
Test Fluid: Oil - 200 SUS

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Features

1. The connection indicator, a Parker innovation, serves as a visual check for complete connection of the 6100 coupling. It helps prevent premature failures and leaks. It assures that the connection is complete and the valves fully open, eliminating unnecessary flow restriction. (see drawing on next page)
2. The Parker heavy-duty wing nut is ruggedly built-specifically to withstand the hammer blows commonly used to tighten and loosen this coupler.
3. The heavy-duty flange is designed to give a positive “no-slip” bulkhead mounting that will reduce downtime.
4. The bonded valve seal permits full pressure connect and disconnect—without seal washout.
5. The flush face valve keeps air inclusion and spillage to a minimum.
6. Corrosion resistant brass makes this coupling compatible with a broad range of media and provides versatility.

6100 Series

Coupling with Wingnut

Body Size (in.)	Thread Size NPTF	Part No. With Flange	Part No. Without Flange	Overall Connected Length	Wt. (LB.) P/Piece
				A	
3/4	1/2-14	6100-08	6120-08	5.20	2.12
3/4	3/4-14	6100-12	6120-12	5.20	3.27
1	1-11 1/2	6100-16	6120-16	5.99	3.19
1 1/4	1 1/4-11 1/2	6100-20	6120-20	6.33	2.73
1 1/2	1 1/2-11 1/2	6100-24	6120-24	6.55	3.52

Contact division for BSPP port availability

6100 Series

Coupling with Hex Nut

Body Size (in.)	Thread Size NPTF	Part No. With Flange	Part No. Without Flange	Overall Connected Length	Wt. (LB.) P/Piece
				A	
3/4	1/2-14	6110-08	6130-08	5.20	1.89
3/4	3/4-14	6110-12	6130-12	5.20	1.83
1	1-11 1/2	6110-16	6130-16	5.99	2.93
1 1/4	1 1/4-11 1/2	6110-20	6130-20	6.33	4.12
1 1/2	1 1/2-11 1/2	6110-24	6130-24	6.55	5.95

Contact division for BSPP port availability

Couplers

Wing Nut

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Wrench Flats	Wing Nut	Wt. (LB.) P/Piece
			A	B	C	
3/4	6125-08	1/2-14	3.22	1.16	4.06	1.30
3/4	6125-12	3/4-14	3.22	1.16	4.06	0.12
1	6125-16	1-11 1/2	3.87	1.43	4.38	1.89
1 1/4	6125-20	1 1/4-11 1/2	4.16	1.78	5.20	0.26
1 1/2	6125-24	1 1/2-11 1/2	4.34	2.00	5.32	0.36

Contact division for BSPP port availability

Hex Nut

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Wrench Flats	Hex Size	Wt. (LB.) P/Piece
			A	B	C	
3/4	6135-08	1/2-14	3.22	1.16	1.75	1.07
3/4	6135-12	3/4-14	3.22	1.16	1.75	1.07
1	6135-16	1-11 1/2	3.87	1.43	2.13	1.63
1 1/4	6135-20	1 1/4-11 1/2	4.16	1.78	2.50	2.47
1 1/2	6135-24	1 1/2-11 1/2	4.34	2.00	2.75	3.15

Contact division for BSPP port availability

Nipples

Body Size (in.)	Part No. Without Flange Brass	With Flange Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Wrench Flats	Wt. (LB.) P/Piece
				D	G	F	
3/4	6105-08	6115-08	1/2-14	3.11	1.62	1.18	0.82
3/4	6105-12	6115-12	3/4-14	3.11	1.62	1.18	0.76
1	6105-16	6115-16	1-11 1/2	3.55	1.88	1.56	1.30
1 1/4	6105-20	6115-20	1 1/4-11 1/2	3.71	2.13	1.88	1.65
1 1/2	6105-24	6115-24	1 1/2-11 1/2	4.12	2.50	2.18	2.61

Contact division for BSPP port availability

Flanges

Body Size (in.)	Part No. Steel	Dimensions (in.) Bolt Hole Diameter	Bolt Circle Diameter
		G	H
3/4	6107-08 (1 piece)	.208	2.125
1	6107-16 (1 piece)	.208	2.375
1 1/4	6107-20 (2 piece)	.208	2.625
1 1/2	6107-24 (2 piece)	.281	3.250

Features

The Parker 5000 Series coupling features:

- Two-piece coupler body that permits operation while one or both halves are under pressure as well as when there is no pressure in either half.
- Connect under pressure by unscrewing the valve body until two or three threads are visible.
- Nipple can be inserted and locked into the coupler without opening either valve. (Use a wrench to thread the valve body back into the coupler, the valves are opened against internal pressure. If internal pressure makes manual disconnect difficult, unscrewing the valve body from the coupler will permit the valves to close, thereby relieving internal pressure and allowing manual operation of the ball-locking sleeve.)

Applications

The Parker 5000 Series is an economical coupling that is a threaded union and can be connected under pressure with tools. For applications that require a coupling to be connected under-pressure and where tools can be used to make the connection, the 5000 Series coupling should be considered.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size	1/2
Rated Pressure (PSI)	2500
Rated Flow (GPM)	12
Temperature Range (std seals)	-40° to +250°F

Performance

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

Coupler

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Length	Wrench Flats	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	D	E	
1/2	5050-4	1/2-14	2.88	2.32	1.06	1.25	1.52	2.58

Nipple

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimension (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/2	8010-4	1/2-14	1.95	1.09	1.06	1.23	0.20

Replacement Parts

5000 Series

Body Size	1/2
O-Rings - Buna N	2-211N0552-90

Applications

The Parker 9200 lever coupling is designed with a lever-operated cam that opens and closes the valves in both coupling halves, positively locking them into place. This allows the couplings to be easily connected and disconnected while under pressure. The 9200 couplings can functionally replace a Double Shut-Off quick coupling and two high pressure ball valves. By simply turning the lever to the “closed” position the hydraulic lines on a piece of machinery or mobile equipment may be disconnected either for maintenance or equipment changeovers.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Performance

Features

1. The lever operates a cam that mechanically locks both valves into either the “open” or “closed” position.

   “Closed,” the flow is shut off at the coupler, allowing easy zero-pressure connect and disconnect.

   “Open,” the valves are locked in the open position in both the female body and male tip. In this position the valves are unaffected by hydraulic surges.
2. Parker design eliminates back flow-checking. The positive lock of the cam prevents hydraulic surges from forcing the valve closed, which avoids flow checking and disrupting equipment performance.
3. Valves close automatically if coupling is accidentally disconnected.
4. The 8010 Series tip used with the 9200 coupler is an industry standard that meets ISO, ASAE, and SAE requirements.
5. Rugged, reliable ball valve and induction hardened locking ball groove prevent brinelling and prolong coupling life.
6. Turning the lever without the male tip in place will NOT result in oil flow.
7. The Lever Coupler is covered by patent numbers: #3680591 and #4009729.
8. New easy action sleeve aids connect and disconnect.

Specifications

Body Size	1/2
Rated Pressure (PSI)	3000
Rated Flow (GPM)	12
Temperature Range (std seals)	-40° to +250° F

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Couplers

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) ORB	Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
*1/2	9250-4-320	1/2-14	–	5.37	1.13	1.50	2.02
*1/2	9250-6-320	–	9/16-18	5.37	1.13	1.50	2.04
*1/2	9250-15-320	–	3/4-16	5.37	1.13	1.50	2.06
*1/2	9250-16-320	–	7/8-14	5.37	1.13	1.50	1.98
**1/2	9250-334	–	9/16-18	5.37	1.13	1.50	2.15

** Mates with the 1/4" 60 Series Nipples (see page B6.)
* Mates with either the 1/2" 8010 nipples or the 1/2" 6600 Series nipples.

Nipples

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) ORB	Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/2	8010-4	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-15	–	3/4-16	2.06	1.20	1.06	1.23	0.20
1/2	8010-16	–	7/8-14	2.05	1.18	1.06	1.23	0.20

Replacement Parts

9200 Series

Body Size	1/2
O-Rings - Buna N	2-211N0552-90

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8145 Lewis Road
Minneapolis, MN 55427

Applications

Parker 3000 Series couplings with their threaded union locking system and precision ball-type check valves, are designed for extreme high pressure applications such as found on portable hydraulic rams. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for hydraulic couplings dust plugs and caps for the full line of hydraulic couplings.

Specifications

Body Size	1/4	3/8
Rated Pressure (PSI) Static	10,000	
Rated Flow (GPM)	3	6
Temperature Range (std seals)	-65° to +180°F	

Features

1. Machined from solid steel barstock for durability.
2. The 3000 Series employs a threaded sleeve locking mechanism, mates with matching male threads on the nipple. The two halves must be manually threaded together for connection.
3. Hard, chrome alloy balls are used for valving. They are spring loaded for positive seating of the valve.
4. The valve provides a metal-to-metal seal between the ball and a coined seat.
5. The body seal is polyurethane which resists high pressure extrusion.
6. A threaded valve retainer provides a valve stop that assures positive valve alignment.

Performance

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

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Couplers

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/4	3050-2	1/4-18	2.38	0.81	1.13	0.25
3/8	3050-3	3/8-18	2.88	1.00	1.38	0.49
3/8	3050-3-231	3/8-18 (Female)	2.82	1.00	1.38	0.49

Nipples

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Expose Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/4	3010-2	1/4-18	1.29	0.48	0.75	1.13	0.14
3/8	3010-3	3/8-18	1.58	0.50	0.94	1.25	0.23
3/8	3010-3-230	3/8-18	2.31	1.23	1.00	1.25	0.30

Specifications

Body Size	3/8"
Rated Pressure (PSI)	10,000
Rated Flow (GPM)	6
Temperature Range (std seals)	-20° to +400°F

Performance

Features

- Positive valve stop. The perch maintains valve alignment and provides metal to metal valve stop to insure that the valves open full—every time.
- Precision machined valves with elastomeric seals provide for positive shut-off upon disconnection.
- Hardened nipples and sleeves and solid barstock construction make for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock.
- Durable ball-locking mechanism assures reliable connection every time. A large number of locking balls distributes the work load evenly while providing alignment and swiveling action to reduce hose torque and prolong hose life. CAUTION: These products are not to be used as swivels, rotation under pressure will result in excessive and premature wear.
- Female pipe (NPSF) standard.
- The standard Viton seal is designed to withstand extremely high pressures and provide reliable sealing. Teflon back-up ring provides support for the seal in high pressure applications.
- Sleeve locking mechanism prevents accidental disconnection when the coupling is dragged along the ground.

Applications

Parker TC series couplings are found in the construction, railway maintenance and house moving industries. Used on hydraulic jacking equipment, these couplers eliminate costly down time caused by improperly connected threaded types. For use where high pressure capability is required coupled with positive coupling action. Considerably faster to use than threaded types.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Coupler

Body Size (in.)	Part No.	Fitting Thread Size	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
3/8	TC-371	3/8-18 NPSF	2.48	0.94	1.25	0.43

Nipple

Body Size (in.)	Part No.	Fitting Thread Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
3/8	TC-372	3/8-18 NPSF	1.82	0.66	0.94	1.08	0.14

NPSF – National Pipe Straight Fuel

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Features

- 303 Stainless steel body.
- Brass locking sleeve
- Polyurethane seals to resist extrusion and abrasion.
- Self locking threads help prevent adapter or sleeve from being loosened by vibrations.
- Visual makeup – when fully coupled the edge of the sleeve will be flush with the end of the male thread – giving a visual check for complete coupling.
- Small diameter mating seal helps keep separation forces to a minimum, allowing for easier connect and disconnect at pressures up to 5,000 PSI.
- 10,000 PSI working pressure, 17,000 PSI intermittent pressure.

Specifications

Body Size	1/4
Rated Pressure (PSI)	10,000
Rated Flow (GPM)	3
Temperature Range (std seals)	-40° to +180°F
Vacuum test	20 in/Hg
Torque to connect at 1000 PSI	47 in/lbs.

Coupler

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.)		Wt. (LB.) P/Piece
			A	B	
1/4	1141-62	1/4-18	2.75	1.00	0.40

Nipple

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.)		Wt. (LB.) P/Piece
			C	D	
1/4	1141-63	1/4-18	2.00	.88	0.26

Applications

Parker moldmate couplings are specifically designed for connecting coolant lines to molds and dies, on injection molding machinery in the plastics and die casting industries. Moldmate couplings significantly reduce machine downtime by providing fast and easy connection of coolant lines during mold changes. Their short nipples can be recessed below the surface of the mold for more efficient storage of molds. Moldmate couplers are available with or without valves in the female half. Non-valved couplers provide maximum flow for efficient cooling. Valved couplers shut off when disconnected.

Special Order Information

Standard seal material is Silicone and is compatible with water and water glycol (anti- freeze) fluids commonly used in heat transfer systems. Viton™ seals are available for use only with oil-based media and not with water glycol. To specify a Viton™ seal, add the suffix “Y” to the standard moldmate part number, thus: PC206Y.

Selection Guidelines

Moldmate couplings are designed for a maximum working pressure of 200 PSI. Most thermoplastic and thermoset heat transfer systems have pumps which provide relatively high flow rates at relatively low pressures. Water and water glycol (anti-freeze) 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 their 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 factory with questions.

Specifications

Body Size	1/4	3/8	1/2
Rated Pressure (PSI)	200	200	200
Rated Flow (GPM)	3	6	12

Material	Temperature Range
Standard Silicone seal	-90˚ to +400˚F
*Optional Viton seal	-20˚ to +400˚F

* For use with oil based media only

Performance

Moldmate Series (1/4; 3/8; 1/2")
Water Pressure Drop (Straight)

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Features

1. Available with or without valves in the coupler. Non-valved couplers have minimum flow resistance for maximum cooling. Valved couplers shut off automatically upon disconnect. Valved couplers can be used with either valved or non-valved nipples. A valved nipple, however, must be used with an "AV" coupler.
2. Nipples are designed to be recessed below mold surfaces to provide more efficient storage of molds and prevent damage to the nipple.
3. Widest choice of end fittings available, including straight, 45° or 90° with standard hose barb or Push-Lok barbs for easy installation.
4. Couplers and nipples are made of corrosion resistant brass, and valved couplers or valved nipple have a Viton™ O-ring on poppet and Silicone interface seal as standard for use with water glycol (anti-freeze) type fluids commonly used in heat transfer systems.

Couplers

Straight

Body Size (in.)	Part No. Brass Non-valved	Wt. (LB.) P/Piece	Part No. Brass Valved	Wt. (LB.) P/Piece	Hose I.d.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Overall Length	Hex Size	Largest Diameter
						Non-valved			Valved		
						A	B	C	A	B	C
1/4	PC204	0.10	PC204AV	0.10	1/4	2.10	0.62	0.71	2.67	0.56	0.71
1/4	PC204-BP*	0.10	PC204AV-BP	0.10	1/4	2.10	0.62	0.71	2.52	0.56	0.71
1/4	PC205	0.09	PC205AV	0.10	5/16	2.10	0.62	0.71	2.67	0.56	0.71
1/4	PC206	0.09	PC206AV	0.10	3/8	2.10	0.62	0.71	2.67	0.56	0.71
1/4	PC206-BP*	0.11	PC206AV-BP	0.13	3/8	2.10	0.62	0.71	2.70	0.56	0.71
3/8	PC306	0.24	PC306V	0.27	3/8	3.01	0.88	0.96	3.17	0.88	0.96
3/8	PC306-BP*	0.26	PC306V-BP	0.29	3/8	3.15	0.88	0.96	3.31	0.88	0.96
3/8	PC308	0.25	PC308V	0.28	1/2	3.15	0.88	0.96	3.17	0.88	0.96
3/8	PC308-BP*	0.25	PC308V-BP	0.03	1/2	3.27	0.88	0.96	3.43	0.88	0.96
1/2	PC504	0.46	NA	–	1/2	3.55	1.12	1.30		–	
1/2	PC504-BP*	0.50	NA	–	1/2	3.68	1.12	1.21		–	
1/2	PC506	0.48	NA	–	3/4	3.80	1.12	1.21		–	
1/2	PC506-BP*	0.52	NA	–	3/4	3.80	1.12	1.21		–	

NA = Not Available

45 Degree

Body Size (in.)	Part No. Brass Non-valved	Wt. (LB.) P/Piece	Part No. Brass Valved	Wt. (LB.) P/Piece	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Overall Length	Hex Size	Largest Diameter
						Non-valved			Valved		
						A	B	C	A	B	C
1/4	PC224	0.13	PC224AV	0.13	1/4	2.67	0.56	0.71	2.87	0.56	0.71
1/4	PC224-BP*	0.13	PC224AV-BP	0.14	1/4	2.57	0.56	0.71	2.77	0.56	0.71
1/4	PC225	0.13	PC225AV	0.13	5/16	2.69	0.56	0.71	2.89	0.56	0.71
1/4	PC226	0.13	PC226AV	0.14	3/8	2.71	0.56	0.71	2.91	0.56	0.71
1/4	PC226-BP*	0.26	PC226AV-BP	0.17	3/8	2.74	0.56	0.71	2.94	0.56	0.71
3/8	PC326	0.36	PC326V	0.36	3/8	3.65	0.88	0.96	3.65	0.88	0.96
3/8	PC326-BP*	0.34	PC326V-BP	0.36	3/8	3.75	0.88	0.96	3.75	0.88	0.96
3/8	PC328	0.36	PC328V	0.36	1/2	3.69	0.88	0.96	3.69	0.88	0.96
3/8	PC328-BP*	0.34	PC328V-BP	0.40	1/2	3.88	0.88	0.96	3.88	0.88	0.96
1/2	PC524	0.74	NA	–	1/2	4.18	1.12	1.21		–	
1/2	PC524-BP*	0.78	NA	–	1/2	4.28	1.12	1.21		–	
1/2	PC526	0.76	NA	–	3/4	4.56	1.12	1.21		–	
1/2	PC526-BP*	0.80	NA	–	3/4	4.56	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.

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90 Degree

Body Size (in.)	Part No. Brass Non-valved	Wt. (LB.) P/Piece	Part No. Brass Valved	Wt. (LB.) P/Piece	Hose I.D.	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Overall Length	Hex Size	Largest Diameter
						Non-valved			Valved		
						A	B	C	A	B	C
1/4	PC214	0.13	PC214AV	0.14	1/4	1.78	0.56	0.71	1.98	0.56	0.71
1/4	PC214-BP*	0.14	PC214AV-BP	0.04	1/4	1.78	0.56	0.71	1.98	0.56	0.71
1/4	PC215	0.13	PC215AV	0.14	5/16	1.78	0.56	0.71	1.98	0.56	0.71
1/4	PC216	0.14	PC216AV	0.15	3/8	1.78	0.56	0.71	1.98	0.56	0.71
1/4	PC216-BP*	0.16	PC216AV-BP	0.17	3/8	1.80	0.56	0.71	2.00	0.56	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

Body Size (in.)	Part No. Brass Non-valved	Wt. (LB.) P/Piece	Part No. Brass Valved	Wt. (LB.) P/Piece	Thread Size NPTF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Overall Length	Hex Size	Largest Diameter
						Non-valved			Valved		
						A	B	C	A	B	C
1/4	P208-01A	0.07	P201-01A	0.07	1/8-27	1.15	0.56	0.71	1.35	0.56	0.71
3/8	P308-01A	0.21	P301-01A	0.21	1/4-18	1.84	0.88	0.96	1.84	0.88	0.96
3/8	P308-01A-HF	0.20	–	–	3/8-18	1.84	0.88	0.96	–	–	–
1/2	PC500	0.34	–	0.34	1/2-14	2.02	1.12	1.21	–	–	–

Bodies are designed for use with valves retained by a hose barb.
Valves and valve springs must be ordered seperately.

Valves

Body Size (in.)	Part No.	Material	Wt. (LB.) P/Piece
1/4	3613001	Brass	–
3/8	P300-11	Brass	–

Valve Springs

Body Size (in.)	Part No.	Material	Wt. (LB.) P/Piece
1/4	7820123	Stainless	–
3/8	P300-6	Stainless	–

Nipples

Female Pipe Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece Brass	Part No. Steel	Wt. (LB.) P/Piece Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter
						D	E	F	G
1/4	BPN251F	0.02	PN251F	0.02	1/8-27	0.97	0.58	0.50	0.58
1/4	BPN252F	0.05	PN252F	0.04	1/4-18	1.28	0.89	0.63	0.72
1/4	BPN253F	0.08	PN253F	0.08	3/8-18	1.41	1.02	0.75	0.87
3/8	BPN352F	0.05	PN352F	0.05	1/4-18	1.48	0.88	0.63	0.72
3/8	BPN353F	0.07	PN353F	0.06	3/8-18	1.58	0.98	0.75	0.87

Male Pipe Thread

Male Nipple Installation

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece Brass	Part No. Steel	Wt. (LB.) P/Piece Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Dia.	Installation Recess Dia.	Depth
						D	E	F	G	A	B
1/4	PN251	0.02	PN251S	0.02	1/8-27	0.94	0.54	.44	0.51	0.69	0.69
1/4	PN252	0.03	PN252S	0.03	1/4-18	1.13	0.74	.56	0.67	0.84	0.94
1/4	PN253	0.05	PN253S	0.05	3/8-18	1.19	0.79	.69	0.79	1.00	0.94
3/8	PN352	0.04	PN352S	0.04	1/4-18	1.34	0.74	.56	0.65	1.00	1.09
3/8	PN353	0.06	PN353S	0.06	3/8-18	1.38	0.78	.69	0.79	1.00	1.13
3/8	PN354	0.12	NA	–	1/2-14	1.59	0.99	.88	1.01	1.19	1.25
1/2	PN554	0.09	NA	–	1/2-14	1.69	0.92	.88	1.01	1.25	1.50
1/2	PN556	0.14	NA	–	3/4-14	1.75	0.99	1.12	1.30	1.50	1.56

Valved Nipple

Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Dia.	Installation Recess Dia.	Depth	Wt. (LB.) P/Piece
			D	E	F	G	A	B	
1/4	BPV252*	1/4-18	1.21	0.82	.56	0.67	0.84	0.94	0.03

* Valved Nipple must be used with Valved Coupler.

Replacement Parts

Moldmate Series

Seal Material	1/4" Size	3/8" Size	1/2" Size
* Silicone	P-200-9A	P300-9A	P500-9A
* Viton	P-200-9AY	P300-9AY	—

* Please note: Bulk seals are considered to be non-returnable.

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Applications

The Parker ST Series are non-valved couplings for applications where maximum flow is required. Their smooth, open bore offers the lowest pressure drop of any quick coupling design and is ideal for applications such as high-pressure water and steam washers, carpet cleaners and mold coolant lines. They are often used in food processing, on fluid and dye transfer lines.

Special Order Information

All sizes of ST Series can be furnished with locking sleeves. Place suffix letters “SL” (Sleeve-Lok) after regular catalog numbers. Example: SST-4MSL. Standard seal material is Buna-N (Nitrile). Ethylene Propylene, Viton™, or Neoprene seals are available upon request. See Fluid Compatibility Chart for recommendations.

Specifications

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

Performance

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

ST Series (3/4; 1; 1 1/4")
Test Fluid: Oil - 200 SUS

Features

1. The smooth, open bore with no valving in either half offers minimal pressure drop and allows easy cleaning in applications where the same lines are used for more than one media.
2. ST couplers and nipples are machined from solid barstock, providing a quality coupling that is durable. ST couplers are available in brass and 303 stainless steel as standard product materials.
3. ST nipples are available in 303 stainless steel, brass and zinc-plated steel. The ball locking grooves of the steel ST nipples are case hardened for resistance to brinelling where high cycle rates and pressure surges are encountered.
4. The ST is an "Interchange" coupling since it dimensionally and functionally interchanges with similar couplings made by other manufacturers.

Couplers

Female Pipe Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter
						A	B	C
1/8	BST-1	0.06	SST-1	0.05	1/8-27	1.06	0.56	0.69
1/4	BST-2	0.17	SST-2	0.15	1/4-18	1.54	0.81	0.94
3/8	BST-3	0.26	SST-3	0.24	3/8-18	1.59	1.00	1.16
1/2	BST-4	0.59	SST-4	0.37	1/2-14	1.98	1.13	1.30
3/4	BST-6	0.62	SST-6	0.57	3/4-14	2.15	1.44	1.66
1	BST-8	0.99	SST-8	0.93	1-11 1/2	2.43	1.75	2.02
1-1/4	BST-10	1.38	–	–	1 1/4-11 1/2	2.44	2.00	2.51
1-1/2	BST-12	1.42	–	–	1 1/2-11 1/2	2.88	2.50	3.00

Contact division for BSPP port availability

Male Pipe Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter
						A	B	C
1/8	BST-1M	0.05	SST-1M	0.05	1/8-27	1.06	0.56	0.69
1/4	BST-2M	0.16	SST-2M	0.16	1/4-18	1.69	0.81	0.81
3/8	BST-3M	0.25	SST-3M	0.21	3/8-18	1.75	1.00	1.16
1/2	BST-4M	0.34	SST-4M	0.31	1/2-14	1.94	1.13	1.30
3/4	BST-6M	–	SST-6M	0.49	3/4-14	2.17	1.44	1.66
1	BST-8M	0.85	SST-8M	0.08	1-11 1/2	2.53	1.75	2.02

Contact division for BSPT port availability

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Nipples

Female Pipe Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Dia.
								D	E	F	G
1/8	BST-N1	0.03	ST-N1	0.03	SST-N1	0.02	1/8-27	.98	0.57	0.56	0.65
1/4	BST-N2	0.07	ST-N2	0.07	SST-N2	0.07	1/4-18	1.46	0.74	0.75	0.87
3/8	BST-N3	0.12	ST-N3	0.11	SST-N3	0.11	3/8-18	1.62	0.96	1.38	1.59
1/2	BST-N4	0.23	ST-N4	0.21	SST-N4	0.21	1/2-14	1.85	0.95	1.13	1.30
3/4	BST-N6	0.33	ST-N6	0.32	SST-N6	0.32	3/4-14	2.15	1.09	1.38	1.59
1	BST-N8	0.52	ST-N8	0.49	SST-N8	0.48	1-11 1/2	2.35	1.18	1.63	1.88
1 1/4	BST-N10	0.85	–	–	–	–	1 1/4-11 1/2	2.38	1.11	2.00	2.31
1 1/2	BST-N12	1.45	–	–	–	–	1 1/2-11 1/2	2.81	1.17	2.38	2.74

Contact division for BSPP port availability

Nipples

Male Pipe Thread

Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Dia.
								D	E	F	G
1/8	BST-N1M	0.02	ST-N1M	0.02	SST-N1M	0.02	1/8-27	1.04	0.63	0.44	0.51
1/4	BST-N2M	0.06	ST-N2M	0.05	SST-N2M	0.05	1/4-18	1.53	0.81	0.56	0.65
3/8	BST-N3M	0.08	ST-N3M	0.07	SST-N3M	0.08	3/8-18	1.69	0.86	0.69	0.79
1/2	BST-N4M	0.15	ST-N4M	0.13	SST-N4M	0.13	1/2-14	1.94	1.01	0.88	1.01
3/4	BST-N6M	0.23	ST-N6M	0.21	SST-N6M	0.22	3/4-14	2.19	1.11	1.06	1.23
1	BST-N8M	0.46	ST-N8M	0.43	SST-N8M	0.43	1-11 1/2	2.51	1.34	1.38	1.59
1 1/4	BST-N10M		–	–	–	–	1 1/4-11 1/2				
1 1/2	BST-N12M		–	–	–	–	1 1/2-11 1/2				

Contact division for BSPT port availability

Replacement Parts

ST Series

ST Series O-Rings	1/8" Body Size	1/4" Size	3/8" Size	1/2" Size
Standard Buna N*	2-010N0674-70	2-110N0674-70	2-112N0674-70	2-114N0674-70

ST Series O-Rings	3/4" Body Size	1" Size	1-1/4" Size	1-1/2" Size
Standard Buna N*	2-212N0674-70	2-217N0674-70	2-221N0674-70	2-327N0674-70

* Other compounds available are ethylene Propylene EO893-80, Viton V0884-75, Neoprene C0557-70. To order change compound number.
Example: BST-1Y (VITON) = 2-010V0884-75. Consult Division for pricing.

Applications

Parker Water Service Couplings are used anywhere water hoses are connected and disconnected frequently. They are used on a wide variety of applications including garden hoses, wash down systems, and mobile water tank lines. The unvalved design permits maximum flow with minimum pressure drop.

Specifications

Body Size	3/4"
Rated Pressure (PSI)	200
Rated Flow (GPM)	28
Temperature Range (std seals)	-40°F to +250°F

Features

- Brass and stainless steel construction for heavy duty service.
- Durable 4-ball locking mechanism for secure connections.
- Quality, temperature-resistant nitrile seals for a leak-free service life.

Coupler

Body Size	Part No.	Thread Size NH	Overall Length A	Largest Diameter C	Wt. (LB.) P/Piece
3/4	1163-60	3/4-11 1/2	1.16	1.21	0.12

Nipple

Body Size	Part No.	Thread Size NH	Overall Length D	Exposed Length E	Wt. (LB.) P/Piece
3/4	1163-61	3/4-11 1/2	1.25	.50	0.08

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Applications

Parker's WB Series couplings are designed for equipment used for cleaning applications such as paint removal or mill scale. The 10,000 psi operating pressure of the WB series makes it ideal for applications that require a high pressure coupling with minimal pressure drop.

Materials Of Construction

Body: Steel

Finish: Zinc plated with yellow chromate finish

Valve: None–Straight through

Seal: Buna-N (Nitrile) with teflon backup washer (female half only)

Specifications

Body Size	1/2"
Max Operating Pressure (PSI)	10,000
Rated Flow (GPM)	12
Temperature Range (std seals)	-40° to +250°F

Features

- Push-to-Connect allows for quick, easy connections by eliminating the need to retract the sleeve to couple
- Locking collets in the female half maintain 360 degree contact with male half to evenly distribute load and reduce brinelling.
- Zinc plating with yellow chromate finish resists corrosion.
- Straight through design allows for excellent flow with low pressure drop.
- Sleeve Lock design prevents accidental disconnects.
- Two knurled bands on the sleeve provide good gripping for operation of sleeve to disconnect.
- Stainless steel collets resist corrosion and provide smooth latching action.
- Teflon backup washer ensures sealing integrity at high pressure.
- Induction hardened locking groove on the male half reduces wear and brinelling.
- Sleeve guard prevents accidental disconnect and protects the opening between the sleeve and the body from the environment.

Performance

Coupler

Body Size	Part Number	Thread Size	Overall Length	Hex Size	Largest Diameter
			A	B	C
1/2	WB-501-8FP	1/2-14 NPTF	2.10	1.25	1.63

Nipple

Body Size	Part Number	Thread Size	Overall Length	Exposed Length	Hex Size	Largest Diameter
			D	E	F	G
1/2	WB-502-8FP	1/2-14 NPTF	2.35	1.26	1.13	1.63

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Applications

HO Series couplings are used in a wide variety of applications. HO couplings are used in refineries, petro-chemical plants and paper and pulp mills for connecting hose lines for high pressure hydro-blasting of boilers and pipe lines. They are also used in oil fields on hose lines for internal and external pressure testing of tubing.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for hydraulic couplings dust plugs and caps for the full line of hydraulic couplings.

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		

Features

- For high pressure applications: working pressures to 15,000 PSI (1,050 Bar) for the 1/4" and 3/8" sizes; to 10,000 PSI (700 Bar) for the 1/2" size.
- No internal valving to restrict flow.
- Made of steel with electroless nickel plating for corrosion resistance.
- Standard sleeve-lock feature which helps prevent accidental disconnect.
- Standard Buna-N Body O-Ring. Backed up by teflon washer to prevent seal extrusion.

Couplers

Body Size (in.)	Part No.	Thread Size NPSF	Dimensions (in.) Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/4	HO-251-4FP	1/4-18	1.67	0.94	1.06	0.24
3/8	HO-371-6FP	3/8-18	1.67	0.94	1.06	0.22
1/2	HO-501-8FP	1/2-14	2.03	1.25	1.62	0.52

Nipples

Body Size (in.)	Part No.	Thread Size NPSF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/4	HO-252-4FP	1/4-18	1.40	0.66	0.81	0.94	0.10
3/8	HO-372-6FP	3/8-18	1.44	0.70	0.94	1.08	0.12
1/2	HO-502-8FP	1/2-14	2.03	0.86	1.12	1.30	0.26

NPSF – National Pipe Straight Fuel
BSPP – British Standard Pipe Parallel

Applications

Parker offers a complete line of dust plugs and caps for their hydraulic quick couplings. Each series shown in this catalog has a dust plug and cap specifically designed to be used with that style of coupling.

Dust plugs and caps serve a twofold function. They keep the mating surface clean and free of contamination and protect the critical mating elements of the coupling halves when they are disconnected. In this way the nipple is protected from damage that would make the total coupling unusable.

Protective dust plugs and caps play a crucial role in the use of quick couplings and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. When ordering the dust cap/plug body size must correspond to that of the coupler or nipple.

Parker's full line of dust plugs and caps can be found below and on the following pages.

Dust Plug: Used on Coupler (female half)

Dust Cap: Used on Nipple (male half)

Dust Plugs

60 Series

Body Size (in.)	Dust Plug Part No. Aluminum	Dust Plug Part No. Geolast	Dust Cap Part No. Aluminum	Dust Cap Part No. Geolast
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	NA	H12-66	NA
2 1/2	H20P-65	NA	H20P-66	NA

NA = Not Available

6600 Series

Body Size (in.)	Dust Plug Part No. Rubber	Dust Cap Part No. Rubber
1/4	H1-65M	H166M
3/8	TR-37	TR-37
1/2	5205-4M	5209-4M
3/4	6659-12M	6657-12M
1	6659-16M	6657-16M

SM Series

Body Size (in.)	Dust Plug Part No.	Dust Cap Part No.	Material
1/4	PL-25	N/A	Plastic
1/4	PR-25	CR-25	Rubber
1/4	P-25	C-25	Aluminum
1/2	DP-50	DC-50	Rubber
1/2	P-50	C-50	Aluminum
3/4	P-75	C-75	Aluminum

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4000 Series & 5000 Series

Body Size (in.)	Dust Plug Part No. Steel	Dust Plug Part No. Rubber	Dust Cap Part No. Steel	Dust Cap Part No. Rubber
1/4	–	5205-2M*	–	5209-2M*
3/8	–	5205-3	–	5209-3
1/2	5005-4	5205-4M*	5009-4	5209-4M*
3/4	–	5205-5	–	5209-5
1	–	5205-6	–	5209-6

* Designates all rubber material. (Not shown at left)

NS & NC Series

Body Size (in.)	Part Number Rubber
3/8	NR-37
1/2	NR-50*
3/4	NR-75*
1	NR-100

Protective cover fits either half.
*In the NC Series, the NR-50 is used for the NC male half of the coupling, and the FR-752 is used for the female half.

FF Series, FH Series & FS Series

Body Size (in.)	Dust Plug Part Number Rubber	Dust Cap Part No. 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

* FR-25 fits both halves

6100 Series

Body Size (in.)	Dust Plug Part No. Brass	Dust Cap Part No. Brass
3/4	6109-08	6108-08
1	6109-16	6108-16
1 1/4	6109-20	6108-20
1 1/2	6109-24	6108-24

9200 Series

Body Size (in.)	Dust Cap. Part No. Rubber
1/2	9507-4-1

3000 Series

Body Size (in.)	Dust Plug Part No. Steel	Dust Cap Part No. Steel
1/4	3005-2	3009-2
3/8	3005-3	3009-3

TC Series

Body Size (in.)	Part Number Rubber
3/8	TR-37

Protective cover fits either half.

PD Series

Body Size (in.)	Dust Cap Part No.
1/8	PD6-285

Ordering Information

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.

Please Note: Certain couplings series have additional "Special Order Information" which should be referred to in ordering those products. If applicable to the product, "Special Order Information" is found next to the Features and Specifications charts.

Coupling Material

- Prefix "B" for Brass

Operation

- 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 Buna-N (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	-264
6600 Series	W	Y	Z	-264
SM Series	E5	E4	E12	E47
HP Series	E5	E4	E12	E47
4000 Series	W	Y	Z	N/A
4200 Series	W	Y	Z	N/A
NS Series	E5	E4	E12	E47
NC Series	E5	E4	E12	E47
FF Series Std. is E49 (BFT)	E5	E4	E12	E47
FE Series	E5	E4	E12	E47
FH Series	E5	E4	E12	E47
FS Series	E5	STD	E12	E47
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 Buna-N only			
WB Series	E5	E4	E12	N/A
HO Series	E5	E4	E12	N/A
Moldmate Series Std. is Silicone	N/A	Y***	N/A	N/A

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

**N/A = Not Available; STD = Standard (No Suffix Needed)

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

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Description

These popular coupling key chains are now available from the Quick Coupling Division. The new key chains are an anodized aluminum construction available in an array of colors. Key chains can be ordered using part numbers in the following chart.

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

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8145 Lewis Road
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Themoplastic Couplings

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Introduction

Since its inception in 1968, the Quick Coupling Division has focused its efforts on developing advanced machining technologies, specialized heat treat processes, optimum seal designs as well as a host of other design and manufacturing parameters to ensure the overall integrity of our quick coupling products. QCD has drawn on the same resources that have made us the market leader in the design and manufacturing of quick coupling products to develop our lines of hydraulic swivels to meet the most rugged applications.

Applications

Some common markets and applications for swivels are:

- Injection Molding
- Pulp and Paper
- Logging
- Refuse Trucks
- Utility Equipment
- Mobile Equipment
- Hose Reels
- Pressure Washers
- Machine Tools
- Steel Mills
- Palletizers
- And many more…

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

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Push-to-Connect							
	Valving	**Body Size (in.)**	**Material**	**Locking Mechanism**	**Std. Seal Material**	**Temp Range****	**Rate Pressure**
PF Series Chemical Transfer (Non-Spill)	Flush Face	1/2" to 1"	Pawl lock	Pawl lock	Viton	-40° to +250° F	30 to 100 PSI
Spectrum™ Series	Valved & Unvalved	1/8" & 3/8"	Acetal	Four Point 360°	Nitrile	0°F to 180°F	0 to 145 PSI
Spectrum™ Series	Valved & Unvalved	1/8" & 3/8"	PVDF/SS	Four Point 360°	Fluoro-Carbon	0°F to 250°F	0 to 145 PSI
Spectrum™ Series	Valved & Unvalved	3/8"	PVDF/ PEEK™	Four Point 360°	Fluoro-Carbon	0°F to 250°F	15 - 115 PSI

Description

Parker's Spectrum™ Series couplers are the most advanced engineered thermoplastic couplings available. Spectrum Series couplings combine compact size, high flow capability, and light weight design to meet a broad range of coupling applications. Three material combinations allow the couplings to be used in markets as diverse as chemical processing, automation equipment, semi-conductor and food processing. Spectrum Series can be used in many applications previously reserved for stainless steel couplings. Additional features include: convenient push-to-connect design, a wide range of port options, and modular design.

Features

- Excellent Chemical Compatibility
- Three Material Combinations: Acetal/SS, PVDF/SS and PVDF/PEEK™
- High Flow Capacity
- Easy Push-To-Connect Operation
- Available Valved and Unvalved
- Flexible Modular Design
- Four Point 360° Locking Mechanism
- Temperatures Up To 250° F
- Panel Mounting Option

Performance

Specifications

	Acetal/SS (black with grey sleeve)		PVDF/SS (translucent with green sleeve)		PVDF/PEEK™ (translucent)
Body Size	**1/8**	**3/8**	**1/8**	**3/8**	**3/8**
Range Pressure	0-145 psi (0-10 bar)	0-145 psi (0-10 bar)	0-145 psi (0-8 bar)	0-145 psi (0-8 bar)	15-115 psi (1-8 bar)
Temperature Range	0° F to 180° F (-20° C to +80° C)	0° F to 180° F (-20° C to +80° C)	0° F to 250° F (-20° C to +120° C)	0° F to 250° F (-20° C to +120° C)	0° F to 250° F (-20° C to +120° C)
Rated Flow (DSO)	1.5 GPM (5.6 lpm)	4.5 GPM (17 lpm)	1.5 GPM (5.6 lpm)	4.5 GPM (17 lpm)	4.5 GPM (17 lpm)
Body Material	Acetal	Acetal	PVDF	PVDF	PVDF
Spring Material	316 SS	316 SS	316 SS	316 SS	PEEK
Seal Material	Nitrile	Nitrile	Fluorocarbon	Fluorocarbon	Fluorocarbon

Couplers

Female Pipe

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Port NPT	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-AC*-02-FP	S2-PC*-02-FP	—	1/8-27	2.15	.67	.82
1/8	S2-AC*-04-FP	S2-PC*-04-FP	—	1/4-18	2.34	.67	.82
3/8	S6-AC*-04-FP	S6-PC*-04-FP	S6-KC*-04-FP	1/4-18	2.63	.82	1.02
3/8	S6-AC*-06-FP	S6-PC*-06-FP	S6-KC*-06-FP	3/8-18	2.63	.82	1.02
3/8	S6-AC*-08-FP	S6-PC*-08-FP	S6-KC*-08-FP	1/2-14	3.10	.82	1.02

Male Pipe

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Port NPT	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-AC*-02-MP	S2-PC*-02-MP	—	1/8-27	2.04	.67	.82
1/8	S2-AC*-04-MP	S2-PC*-04-MP	—	1/4-18	2.15	.67	.82
3/8	S6-AC*-04-MP	S6-PC*-04-MP	S6-KC*-04-MP	1/4-18	2.90	.82	1.02
3/8	S6-AC*-06-MP	S6-PC*-06-MP	S6-KC*-06-MP	3/8-18	2.77	.82	1.02
3/8	S6-AC*-08-MP	S6-PC*-08-MP	S6-KC*-08-MP	1/2-14	3.10	.82	1.02

Hose Barb

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-AC*-03-HB	S2-PC*-03-HB	—	3/16 (4 mm)	2.34	.67	.82
1/8	S2-AC*-04-HB	S2-PC*-04-HB	—	1/4 (6 mm)	2.34	.67	.82
3/8	S6-AC*-04-HB	S6-PC*-04-HB	S6-KC*-04-HB	1/4 (6 mm)	3.19	.82	1.02
3/8	S6-AC*-06-HB	S6-PC*-06-HB	S6-KC*-06-HB	3/8 (9 mm)	3.19	.82	1.02
3/8	S6-AC*-08-HB	S6-PC*-08-HB	S6-KC*-08-HB	1/2 (13 mm)	3.31	.82	1.02

Bulkhead Hose Barb

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Hex Size	Largest Diameter	Bulkhead Hex
					A	B	C	D
1/8	S2-AC*-03-BHB	S2-PC*-03-BHB	—	3/16 (4 mm)	2.89	.67	.82	.67
1/8	S2-AC*-04-BHB	S2-PC*-04-BHB	—	1/4 (6 mm)	2.89	.67	.82	.67

Panel Mount Couplers

Female Pipe

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Hex Size	Largest Diameter	Bulkhead Hex
					A	B	C	D
1/8	S2-AP*-02-FP	S2-PP*-02-FP	—	1/8-27	2.04	.67	1.10	1.06
1/8	S2-AP*-04-FP	S2-PP*-04-FP	—	1/4-18	2.16	.67	1.10	1.06

Hose Barb

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Hex Size	Largest Diameter	Bulkhead Hex
					A	B	C	D
1/8	S2-AP*-03-HB	S2-PP*-03-HB	—	3/16 (4 mm)	2.34	.67	1.10	1.06
1/8	S2-AP*-04-HB	S2-PP*-04-HB	—	1/4 (6 mm)	2.34	.67	1.10	1.06

*** NOTE: Replace * with "V" for Valved version and "S" for Non-Valved version**

Nipples

Female Pipe

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Port NPT	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-ANS-02-FP	S2-PNS-02-FP	—	1/8-27	1.02	.55	.62
1/8	S2-ANS-04-FP	S2-PNS-04-FP	—	1/4-18	1.18	.67	.76
3/8	S6-ANS-04-FP	S6-PNS-04-FP	—	1/4-18	1.52	.67	.73
3/8	S6-ANS-06-FP	S6-PNS-06-FP	—	3/8-18	1.52	.83	.91
3/8	S6-ANS-08-FP	S6-PNS-08-FP	—	1/2-14	1.68	.98	1.09

Male Pipe

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Port NPT	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-ANS-02-MP	S2-PNS-02-MP	—	1/8-27	1.08	.55	.62
1/8	S2-ANS-04-MP	S2-PNS-04-MP	—	1/4-18	1.24	.67	.76
3/8	S6-ANS-04-MP	S6-PNS-04-MP	—	1/4-18	1.64	.67	.73
3/8	S6-ANS-06-MP	S6-PNS-06-MP	—	3/8-18	1.64	.83	.91
3/8	S6-ANS-08-MP	S6-PNS-08-MP	—	1/2-14	1.83	.94	1.04

Hose Barb

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Largest Diameter
					A	B
1/8	S2-ANS-03-HB	S2-PNS-03-HB	—	3/16 (4 mm)	1.26	.34
1/8	S2-ANS-04-HB	S2-PNS-04-HB	—	1/4 (6 mm)	1.26	.34
3/8	S6-ANS-04-HB	S6-PNS-04-HB	—	1/4 (6 mm)	1.86	.71
3/8	S6-ANS-06-HB	S6-PNS-06-HB	—	3/8 (9 mm)	1.87	.71
3/8	S6-ANS-08-HB	S6-PNS-08-HB	—	1/2 (13 mm)	1.99	.71

Bulkhead Hose Barb

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Hex Size	Largest Diameter	Bulkhead Hex
					A	B	C	D
1/8	S2-ANS-03-BHB	S2-PNS-03-BHB	—	3/16 (4 mm)	1.97	.55	.64	.55
1/8	S2-ANS-04-BHB	S2-PNS-04-BHB	—	1/4 (6 mm)	1.97	.55	.77	.67

Valved Nipples

Female Pipe

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Port NPT	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-ANV-02-FP	S2-PNV-02-FP	—	1/8-27	1.61	.67	.76
1/8	S2-ANV-04-FP	S2-PNV-04-FP	—	1/4-18	1.80	.67	.76
3/8	S6-ANV-04-FP	S6-PNV-04-FP	S6-KNV-04-FP	1/4-18	2.02	.83	.91
3/8	S6-ANV-06-FP	S6-PNV-06-FP	S6-KNV-06-FP	3/8-18	2.02	.83	.91
3/8	S6-ANV-08-FP	S6-PNV-08-FP	S6-KNV-08-FP	1/2-14	2.49	.83	.91

Male Pipe

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Port NPT	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-ANV-03-MP	S2-PNV-03-MP	—	1/8-27	1.49	.67	.76
1/8	S2-ANV-04-MP	S2-PNV-04-MP	—	1/4-18	1.80	.67	.76
3/8	S6-ANV-04-MP	S6-PNV-04-MP	S6-KNV-04-MP	1/4-18	2.24	.83	.91
3/8	S6-ANV-06-MP	S6-PNV-06-MP	S6-KNV-06-MP	3/8-18	2.16	.83	.91
3/8	S6-ANV-08-MP	S6-PNV-08-MP	S6-KNV-08-MP	1/2-14	2.49	.83	.91

Hose Barb

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Hex Size	Largest Diameter
					A	B	C
1/8	S2-ANV-03-HB	S2-PNV-03-HB	—	3/16 (4 mm)	1.80	.67	.76
1/8	S2-ANV-04-HB	S2-PNV-04-HB	—	1/4 (6 mm)	1.80	.67	.76
3/8	S6-ANV-04-HB	S6-PNV-04-HB	S6-KNV-04-HB	1/4 (6 mm)	2.59	.82	.91
3/8	S6-ANV-06-HB	S6-PNV-06-HB	S6-KNV-06-HB	3/8 (9 mm)	2.59	.82	.91
3/8	S6-ANV-08-HB	S6-PNV-08-HB	S6-KNV-08-HB	1/2 (13 mm)	2.71	.82	.91

Bulkhead Hose Barb

Body Size (in.)	Acetal Part No.	PVDF Part No.	PVDF/PEEK™ Part No.	Hose I.D.	Overall Length	Hex Size	Largest Diameter	Bulkhead Hex
					A	B	C	D
1/8	S2-ANV-03-BHB	S2-PNV*-03-BHB	—	3/16 (4 mm)	2.35	.67	.76	.55
1/8	S2-ANV-04-BHB	S2-PNV*-04-BHB	—	1/4 (6 mm)	2.35	.67	.76	.55

Features

The Parker "PF" Non-Spill plastic coupling is designed to meet the demand for closed system transfer and dispensing of chemicals with minimal environmental contamination.

- Rugged Polypropylene construction for chemical compatability and reduced cost.
- Simple to operate: Push to connect design
- Flush face valves exibit minimal spillage upon connect or disconnect and air inclusion on connect.
- Teflon coated Viton tank gasket for improved sealability

Applications

The **Parker PF Series Non-Spill** couplings virtually eliminate fluid loss upon disconnection and are designed to help meet the demand for closed system transfer and dispensing of chemicals with minimal environmental contamination. The push-to-connect design allows ease of connection/ disconnection, and the flush valving enables ease of cleaning. They can be used with concentrated or diluted agricultural chemicals when transferring from bulk storage tanks, returnable containers, applicators, etc.

The PF Series product line includes hose-end couplers (female port), hose-end nipples (female port), and drum adapters with 2" end connections (NPS or Buttress-type thread). Dust covers are available in the product offering as well.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Interchange

The 1/2" PF Series products are dimensionally interchangeable with the 1/2" FS Series products.

Specifications

	1/2" PF Coupling	1" PF Coupling
Materials:		
Body	Polypropylene	Polypropylene
Springs	316 Stainless Steel	316 Stainless Steel
Seals	Parker V0965-80	Parker V0965-80
Rated Pressure	100 PSI at 68° F	30 PSI at 68° F
Rated Flow	12 GPM	20 GPM
Pressure Drop at Rated Flow	11.3 PSI	3.4 PSI
Maximum Force to Connect	32 lbs.	70 lbs.
Maximum Force to Disconnect	12 lbs.	30 lbs.
Operating Temperature	+40° to +140° F	+40° to +140° F
Storage Temperature	-20° to +140° F	
Maximum Spillage per Disconnect	0.135 ml .008 cu. in.	1ml .061 cu. in. (1cc)
Vacuum Rating	27.4 Hg	27.4 Hg

Performance

Couplers

Body Size (in.)	Part No.	Part Thread	Overall Length	Largest Diameter	Wrench Flats	Wt. (LB.) P/Piece
			A	B		
1/2	PF-501-8FP	1/2" NPT	3.02	1.88	1.38	–
1	PF-1001-16FP	1" NPT	3.59	3.00	1.99	0.53

Nipples

Body Size (in.)	Part No.	Port Thread	Tank Mount Thread	Overall Length	Largest Diameter	Wrench Flats	Wt. (LB.) P/Piece
				A	B		
1/2	PF-502-8FP	1/2" NPT	None	2.96	1.33	1.24	–
1	PF-1002-16FP	1" NPT	None	3.92	2.20	1.87	0.26

Body Size (in.)	Part No.	Port Thread	Tank Mount Thread	Overall Length	Largest Diameter	Wrench Flats	Wt. (LB.) P/Piece
				A	B		
1	PF-1002-32MB	1" NPT	Modified Buttress	3.92	2.75	1.87	0.33
1	PF-1002-32MP	1" NPT	Modified NPS	3.92	2.75	1.87	0.31

Dust Caps and Plugs

Body Size	Dust Plug Part No.	Dust Cap Part No.
1/2"	FR-501	FR-502
1"	None	PFR-1002
1"	None	PFR-1002-NS

Ordering Information

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.

Please Note: Certain couplings series have additional "Special Order Information" which should be referred to in ordering those products. If applicable to the product, "Special Order Information" is found next to the Features and Specifications charts.

Optional Seals Suffix*

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

Coupling Series	Ethylene Propylene	Viton	Neoprene	Perfluoro-elastomer
PF Series	E5	STD	E12	E47

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

**N/A = Not Available; STD = Standard (No Suffix Needed)

Spectrum Series – are available with these materials

Body Material	Seal Material
Acetal/SS	Nitrile
PVDF/SS	Fluorocarbon
PVDF/PEEK™	Fluorocarbon

Swivels

Quick Coupling Division
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Introduction

Since its inception in 1968, the Quick Coupling Division has focused its efforts on developing advanced machining technologies, specialized heat treat processes, optimum seal designs as well as a host of other design and manufacturing parameters to ensure the overall integrity of our quick coupling products. QCD has drawn on the same resources that have made us the market leader in the design and manufacturing of quick coupling products to develop our lines of hydraulic swivels to meet the most rugged applications.

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Some common markets and applications for swivels are:

- Injection Molding
- Pulp and Paper
- Logging
- Refuse Trucks
- Utility Equipment
- Mobile Equipment
- Hose Reels
- Pressure Washers
- Machine Tools
- Steel Mills
- Palletizers
- And many more…

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Male SAE O-Ring Straight Thread – Female 37° Flare D-23
Male SAE O-Ring Straight Thread – Female Pipe Swivel D-23
Male SAE O-Ring Straight Thread – Female SAE Straight Thread D-23
Male SAE O-Ring Straight Thread – O-Ring Face Seal D-23
Female SAE Straight Thread – Female Pipe D-24
Female SAE Straight Thread – 37° Flare D-24
Female SAE Straight Thread – Male SAE O-Ring Straight Thread D-24
Female SAE Straight Thread – Female 37° Flare D-24
Female SAE Straight Thread – Female Pipe Swivel D-24
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Seal Options D-27

Introduction

The design and manufacturing processes vital to a swivel's quality are the cornerstone of the Quick Coupling Division's day to day operations. The PS Series Swivel is designed to meet the application needs and performance requirements of the market. Pressure capabilities up to 5000 psi, 1/4" through 2" body sizes, a variety of port options, zinc with yellow chromate or nickel plating and a wide range of seal options make the PS Series Swivels ideal for an array of dynamic applications.

As with all of our products the Quick Coupling Division is committed to premier customer service. We view our customers as partners in vital technologies, and are dedicated to developing innovative solutions to complex problems while providing premier customer service. We value those partnerships and look forward to the opportunities that lie ahead with our line of PS Series Swivels.

Features

- Hardened bearing races for extended service life.
- Full flow design minimizes pressure drop for optimum system performance.
- Sealed bearing design isolates bearing race from media and environment.
- Reduced bearing load design minimizes wear in the bearing race and extends service life.
- Teflon™ back-up rings support primary seal for high-pressure applications.
- Zinc with yellow chromate plating for maximum corrosion resistance.
- Variety of seal options available.
- Three piece swivel design for sizes 1 1/4" through 2" for superior performance and service life.
- Precision needle bearings and ball bearings sized 1 1/4" through 2" for additional side load resistance.
- Polyurethane U-Cup primary seal standard for sizes 1 1/4" through 2".
- PS Series Swivels eliminate hose twist and torque that may cause premature hose failure.

Specifications

Body Size (in.)	**1/4**	**3/8**	**1/2**	**3/4**	**1**	**1-1/4**	**1-1/2**	**2**
Maximum Rated Pressure (PSI)	5000	5000	5000	5000	4000	4000	4000	3000
Except the following port options in the noted size								
03 (Male JIC 37°)							3000	2000
05 (Male SAE O-Ring Boss)								2500
06 (Female JIC 37°) 90° Housing Port				4000	3000	3000	2500	2000
06 (Female JIC 37°) In-Line Housing Port							3000	2000
07 (Female NPSM)			4600	3000	2600	2100	1650	1500
Temperature Range (std seals)	-40° to 250° F					-40° to 180° F		

Performance Data

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

In-Line Swivels

90° Swivels

PS Part Number:

PS 16 1 02 02-16-16 Y-

Material and Finish:
Blank = Carbon Steel w/Zinc & Yellow Chromate Plating
NI = Carbon Steel with Electroless Nickel Plating
S3 = 303 Stainless Steel Passivated
S6 = 316 Stainless Steel Electropolished

Seal Code:
Blank = Nitrile†
A = Aflas™*
K = Perfluoroelastomer (Kalrez™)*
W = Ethylene Propylene
Y = Fluorocarbon (Viton™)
Z = Neoprene

Housing Port Size (1/16 of an inch)††

Shaft Port Size (1/16 of an inch)††

Housing Port Configuration:
01 = Male NPTF(Non-Standard)*
02 = Female NPTF
03 = Male JIC 37 Degree
05 = Male SAE O-Ring Straight Thread
06 = Female JIC 37 Degree
07 = Female NPSM Pipe Swivel
10 = Female SAE Straight Thread
JM = Seal-Lok

Shaft Port Configuration:
01 = Male NPTF
02 = Female NPTF
03 = Male JIC 37 Degree
05 = Male SAE O-Ring Straight Thread
10 = Female SAE Straight Thread
JM = Seal-Lok

Configuration:
1 = In-line
9 = 90 degree

Body Size
(1/16 of an inch)

Parker Swivel designator

*Contact Division for price and delivery
† On -24 and -32 sizes, Polyurethane U-Cup Seal is standard.
†† For -20 Ports, -24 Body is used.

Materials Of Construction

Housing: ..... Carbon Steel

Shaft: ..... Carbon Steel

Plating:* ..... Zinc with Yellow Chromate (Standard)

Bearing: ..... Chrome

O-Rings:* ..... Buna-N (Standard)

Back-Up Ring: ..... Teflon

* See How-To-Order For optional plating and seal materials

Male Pipe - Female Pipe

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410102-4-4	2.87" 72.9 mm	1.85" 47.0 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	1/4-18 NPTF
PS610102-6-6	2.98" 75.6 mm	1.92" 48.8 mm	.88" 22.2 mm	1.31" 33.3 mm	3/8-18 NPTF	3/8-18 NPTF
PS810102-8-8	3.24" 82.2 mm	1.96" 50.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	1/2-14 NPTF
PS1210102-12-12	3.46" 87.8 mm	2.16" 55.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	3/4-14 NPTF
PS1610102-16-16	3.74" 95.1 mm	2.26" 57.4 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410102-20-20	4.82" 122.4 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/4-11 1/2 NPTF	1 1/4-11 1/2 NPTF
PS2410102-24-24	4.82" 122.4 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/2-11 1/2 NPTF	1 1/2-11 1/2 NPTF
PS3210102-32-32	5.20" 132.1 mm	3.58" 90.8 mm	3.06" 77.6 mm	3.35" 85.1 mm	2-11 1/2 NPTF	2-11 1/2 NPTF

Male Pipe - 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410103-4-4	3.11" 78.9 mm	2.08" 53.0 mm	.75" 19.0 mm	1.19" 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS610103-6-6	3.23" 82.0 mm	2.18" 55.2 mm	.88" 22.2	1.31" 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS810103-8-8	3.65" 92.6 mm	2.38" 60.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1210103-12-12	3.86" 98.1 mm	2.57" 65.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1610103-16-16	4.09" 103.8 mm	2.60" 66.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410103-20-20	5.21 132.4 mm	"3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2A
PS2410103-24-24	5.21" 132.4 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/2-11 1/2 NPTF	1 7/8-12 UN-2A
PS3210103-32-32	5.90" 149.9 mm	4.28" 108.6 mm	3.06" 77.6 mm	3.35" 85.1 mm	2-11 1/2 NPTF	2 1/2-12 UN-2A

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Male Pipe - Female 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410106-4-4	2.96” 75.2 mm	1.94” 49.3 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610106-6-6	3.06” 77.7 mm	2.00” 50.9 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810106-8-8	3.34” 84.9 mm	2.07” 52.6 mm	1.12” 28.6 mm	1.50” 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210106-12-12	3.58” 91.0 mm	2.29” 58.2 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610106-16-16	3.84” 97.5 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2B

Male Pipe - Female SAE Straight Thread

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410110-4-4	2.87” 72.9 mm	1.85” 47.0 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610110-6-6	2.98” 75.6 mm	1.92” 48.8 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810110-8-8	3.24” 82.2 mm	1.96” 50.0 mm	1.12” 28.6 mm	1.50” 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210110-12-12	3.46” 87.8 mm	2.16” 55.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610110-16-16	3.74” 95.1 mm	2.26” 57.4 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-5/16-20 UN-2B

Male Pipe - O-Ring Face Seal

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4101JM-4-4	2.99” 76.0 mm	1.97” 50.0 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6101JM-6-6	3.14” 79.6 mm	2.08” 52.8 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8101JM-8-8	3.44” 87.4 mm	2.17” 55.1 mm	1.12” 28.6 mm	150” 36.5 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12101JM-12-12	3.65” 92.8 mm	2.36” 60.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16101JM-16-16	3.84” 97.6 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-7/16-16 UN-2A

Female Pipe - Female Pipe

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410202-4-4	2.60” 66.1 mm	1.85” 47.0 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	1/4-18 NPTF
PS610202-6-6	2.77” 70.4 mm	1.92” 48.8 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	3/8-18 NPTF
PS810202-8-8	2.93” 74.4 mm	1.96” 50.0 mm	1.12” 28.6 mm	1.50” 36.5 mm	1/2-14 NPTF	1/2-14 NPTF
PS1210202-12-12	3.14” 79.6 mm	2.16” 55.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	3/4-14 NPTF
PS1610202-16-16	3.40” 86.2 mm	2.26” 57.4 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410202-20-20	4.67" 118.6 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/4-11 1/2 NPTF	1 1/4-11 1/2 NPTF
PS2410202-24-24	4.67" 118.6 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/2-11 1/2 NPTF	1 1/2-11 1/2 NPTF
PS3210202-32-32	4.88" 123.9 mm	3.58" 90.8 mm	3.06" 77.6 mm	3.35" 85.1 mm	2-11 1/2 NPTF	2-11 1/2 NPTF

Female Pipe - 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410203-4-4	2.84” 72.0 mm	2.08” 53.0 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS610203-6-6	3.03” 76.9 mm	2.18” 55.2 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS810203-8-8	3.34” 84.9 mm	2.38” 60.3 mm	1.12” 28.6 mm	1.50” 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1210203-12-12	3.54” 89.9 mm	2.57” 65.3 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1610203-16-16	3.74” 95.0 mm	2.60” 66.2 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410203-20-20	5.06" 128.6 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2A
PS2410203-24-24	5.06" 128.6 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 1/2-11 1/2 NPTF	1 7/8-12 UN-2A
PS3210203-32-32	5.58" 141.7 mm	4.28" 108.6 mm	3.06" 77.6 mm	3.35" 85.1 mm	2-11 1/2 NPTF	2 1/2-12 UN-2A

Female Pipe - Female 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410206-4-4	2.69” 68.4 mm	1.94” 49.3 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610206-6-6	2.86” 72.5 mm	2.00” 50.9 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810206-8-8	3.04” 77.1 mm	2.07” 52.6 mm	1.12” 28.6 mm	1.50” 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210206-12-12	3.26” 82.8 mm	2.29” 58.2 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610206-16-16	3.49” 88.6 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-5/16-12 UN-2B

Female Pipe - Female SAE Straight Thread

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410210-4-4	2.60” 66.1 mm	1.85” 47.0 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS610210-6-6	2.77” 70.4 mm	1.92” 48.8 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS810210-8-8	2.93” 74.4 mm	1.96” 50.0 mm	1.12” 28.6 mm	1.50” 36.5 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1210210-12-12	3.14” 79.6 mm	2.16” 55.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1610210-16-16	3.40” 86.2 mm	2.26” 57.4 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-5/16-20 UN-2B

Female Pipe - O-Ring Face Seal

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4102JM-4-4	2.72” 69.1 mm	1.97” 50.0 mm	.75” 19.0 mm	1.19” 30.2 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6102JM-6-6	2.93” 74.4 mm	2.08” 52.8 mm	.88” 22.2 mm	1.31” 33.3 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8102JM-8-8	3.14” 79.7 mm	2.17” 55.1 mm	1.12” 28.6 mm	1.50” 36.5 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12102JM-12-12	3.33” 84.6 mm	2.36” 60.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16102JM-16-16	3.50” 88.8 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-11 1/2 NPTF	1-7/16-12 UN-2A

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37° Flare - Female Pipe

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410302-4-4	2.88" 72.9 mm	1.85" 47.0 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS610302-6-6	2.98" 75.6 mm	1.92" 48.8 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS810302-8-8	3.14" 79.8 mm	1.96" 50.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	1/2-14 NPTF
PS1210302-12-12	3.56" 90.5 mm	2.16" 55.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1610302-16-16	3.74" 95.1 mm	2.26" 57.4 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410302-20-20	4.91" 124.8 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 5/8-12 UN-2A	1 1/4-11 1/2 NPTF
PS2410302-24-24	4.91" 124.8 mm	3.38" 85.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 7/8-12 UN-2A	1 1/2-11 1/2 NPTF
PS3210302-32-32	5.50" 139.8 mm	3.58" 90.8 mm	3.06" 77.6 mm	3.35" 85.1 mm	2 1/2-12 UN-2A	2-11 1/2 NPTF

37° Flare - 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410303-4-4	3.11" 78.9 mm	2.08" 53.0 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS610303-6-6	3.23" 82.0 mm	2.18" 55.2 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS810303-8-8	3.56" 90.3 mm	2.38" 60.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS810303-10-10	3.76" 95.4 mm	2.48" 62.9 mm	1.12" 28.6 mm	1.50" 36.5 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1210303-12-12	3.97" 100.8 mm	2.57" 65.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1610303-16-16	4.09" 103.8 mm	2.60" 66.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410303-20-20	5.31" 134.8 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2A
PS2410303-24-24	5.31" 134.8 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 7/8-12 UN-2A	1 7/8-12 UN-2A
PS3210303-32-32	6.20" 157.5 mm	4.28" 108.6 mm	3.06" 77.6 mm	3.35" 85.1 mm	2 1/2-12 UN-2A	2 1/2-12 UN-2A

37° Flare - Female 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410306-4-4	2.96" 75.2 mm	1.94" 49.3 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610306-6-6	3.06" 77.7 mm	2.00" 50.9 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810306-8-8	3.25" 82.6 mm	2.07" 52.6 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210306-12-12	3.69" 93.6 mm	2.29" 58.2 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610306-16-16	3.84" 97.5 mm	2.36" 60.0 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

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37° Flare - Female SAE Straight Thread

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410310-4-4	2.88" 72.9 mm	1.85" 47.0 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610310-6-6	2.98" 75.6 mm	1.92" 48.8 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810310-8-8	3.14" 79.8 mm	1.96" 50.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210310-12-12	3.56" 90.5 mm	2.16" 55.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610310-16-16	3.74" 95.1 mm	2.26" 57.4 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Large Sizes

Part Number	A	B	C	D	Dia.	Wrench Flats	Port 1	Port 2
PS2410310-20-20	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2B
PS2410310-24-24	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	17/8-12 UN-2A	1 7/8-12 UN-2B
PS3210310-32-32	7.38" 187.4 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2-1/2-12 UN-2B

37° Flare - O-Ring Face Seal

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4103JM-4-4	2.99" 76.0 mm	1.97" 50.0 mm	75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6103JM-6-6	3.14" 79.6 mm	2.08" 52.8 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	11/16-18 UNF-2A
PS8103JM-8-8	3.35" 85.1 mm	2.17" 55.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2A	13/16-16 UNF-2A
PS8103JM-10-10	3.56" 90.3 mm	2.28" 57.8 mm	1.12" 28.6 mm	1.50" 36.5 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS12103JM-12-12	3.76" 95.4 mm	2.36" 60.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16103JM-16-16	3.84" 97.5 mm	2.36" 60.0 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

Male SAE O-Ring Straight Thread - Female Pipe

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410502-4-4	2.67" 67.8 mm	1.85" 47.0 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS610502-6-6	2.85" 72.5 mm	1.92" 48.8 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS810502-8-8	2.93" 74.4 mm	1.96" 50.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UN-2A	1/2-14 NPTF
PS1210502-12-12	3.29" 83.6 mm	2.16" 55.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1610502-16-16	3.40" 86.2 mm	2.26" 57.4 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2A	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410502-20-20	4.53" 115.2 mm	3.38" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2A
PS2410502-24-24	4.53" 125.2 mm	3.38" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 7/8-12 UN-2A	1 1/2-11 1/2 UN-2A
PS3210502-32-32	5.44" 138.2 mm	4.28" 108.6 mm	3.06" 77.6 mm	3.35" 85.1 mm	2 1/2-12 UN-2A	2-11 1/2 UN-2A

Male SAE O-Ring Straight Thread - 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410503-4-4	2.90” 73.7 mm	2.08” 53.0 mm	.75” 19.0 mm	1.19” 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS610503-6-6	3.11” 78.9 mm	2.18” 55.2 mm	.88” 22.2 mm	1.31” 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS810503-8-8	3.34” 84.9 mm	2.38” 60.3 mm	1.12” 28.6 mm	1.50” 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS810503-10-10	3.50” 88.9 mm	2.48” 62.9 mm	1.12” 28.6 mm	1.50” 36.5 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1210503-12-12	3.70” 93.9 mm	2.57” 65.3 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1610503-16-16	3.74” 95.0 mm	2.60” 66.2 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

Large Sizes

Part Number	A	B	Wrench Flats	Dia.	Port 1	Port 2
PS2410503-20-20	4.93" 125.2 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2A
PS2410503-24-24	4.93" 125.2 mm	3.78" 95.9 mm	2.63" 66.7 mm	2.88" 73.0 mm	1 7/8-12 UN-2A	1 1/2-11 1/2 UN-2A
PS3210503-32-32	5.44" 138.2 mm	4.28" 108.6 mm	3.06" 77.6 mm	3.35" 85.1 mm	2 1/2-12 UN-2A	2-11 1/2 UN-2A

Male SAE O-Ring Straight Thread - Female 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410506-4-4	2.76” 70.0 mm	1.94” 49.3 mm	.75” 19.0 mm	1.19” 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610506-6-6	2.94” 74.6 mm	2.00” 50.9 mm	.88” 22.2 mm	1.31” 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810506-8-8	3.04” 77.1 mm	2.07” 52.6 mm	1.12” 28.6 mm	1.50” 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210506-12-12	3.42” 86.8 mm	2.29” 58.2 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610506-16-16	3.49” 88.6 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male SAE O-Ring Straight Thread - Female SAE Straight Thread

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS410510-4-4	2.67” 67.8 mm	1.85” 47.0 mm	.75” 19.0 mm	1.19” 30.2 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS610510-6-6	2.85” 72.5 mm	1.92” 48.8 mm	.88” 22.2 mm	1.31” 33.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS810510-8-8	2.93” 74.4 mm	1.96” 50.0 mm	1.12” 28.6 mm	1.50” 36.5 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1210510-12-12	3.29” 83.6 mm	2.16” 55.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1610510-16-16	3.40” 86.2 mm	2.26” 57.4 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Large Sizes

Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2410510-20-20	5.78" 146.8 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2B
PS2410510-24-24	5.78" 146.8 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2A	1 7/8-12 UN-2B
PS3210510-32-32	6.62" 168.1 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2-1/2-12 UN-2B

Male SAE O-Ring Straight Thread - O-Ring Face Seal

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4105JM-4-4	2.79” 70.8 mm	1.97” 50.0 mm	.75” 19.0 mm	1.19” 30.2 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6105JM-6-6	3.01” 76.5 mm	2.08” 52.8 mm	.88” 22.2 mm	1.31” 33.3 mm	9/16-18 UNF-2A	11/16-16 UNF-2A
PS8105JM-8-8	3.14” 79.7 mm	2.17” 55.1 mm	1.12” 28.6 mm	1.50” 36.5 mm	3/4-16 UNF-2A	13/16-16 UNF-2A
PS8105JM-10-10	3.30” 83.8 mm	2.28” 57.8 mm	1.12” 28.6 mm	1.50” 36.5 mm	7/8-14 UNF-2A	1-14 UNF-2A
PS12105JM-12-12	3.49” 88.6 mm	2.36” 60.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16105JM-16-16	3.50” 88.8 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

Female SAE Straight Thread - Female Pipe

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411002-4-4	2.60” 66.1 mm	1.85” 47.0 mm	.75” 19.0 mm	1.19” 30.2 mm	7/16-20 UNF-2B	1/4-18 NPTF
PS611002-6-6	2.77” 70.4 mm	1.92” 48.8 mm	.88” 22.2 mm	1.31” 33.3 mm	9/16-18 UNF-2B	3/8-18 NPTF
PS811002-8-8	2.93” 74.4 mm	1.96” 50.0 mm	1.12” 28.6 mm	1.50” 36.5 mm	3/4-16 UNF-2B	1/2-14 NPTF
PS1211002-12-12	3.39” 86.2 mm	2.16” 55.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-1/16-12 UN-2B	3/4-14 NPTF
PS1611002-16-16	3.52” 89.4 mm	2.26” 57.4 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-5/16-12 UN-2B	1-11 1/2 NPTF

Female SAE Straight Thread - 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411003-4-4	2.84” 72.0 mm	2.08” 53.0 mm	.75” 19.0 mm	1.19” 30.2 mm	7/16-20 UNF-2B	7/16-20 UNF-2A
PS611003-6-6	3.03” 76.9 mm	2.18” 55.2 mm	.88” 22.2 mm	1.31” 33.3 mm	9/16-18 UNF-2B	9/16-18 UNF-2A
PS811003-8-8	3.34” 84.9 mm	2.38” 60.3 mm	1.12” 28.6 mm	1.50” 36.5 mm	3/4-16 UNF-2B	3/4-16 UNF-2A
PS1211003-12-12	3.80” 96.5 mm	2.57” 65.3 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2A
PS1611003-16-16	3.86” 98.1 mm	2.60” 66.2 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2A

Female SAE Straight Thread - Female 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411006-4-4	2.69” 68.4 mm	1.94” 49.3 mm	.75” 19.0 mm	1.19” 30.2 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS611006-6-6	2.86” 72.5 mm	2.00” 50.9 mm	.88” 22.2 mm	1.31” 33.3 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS811006-8-8	3.04” 77.1 mm	2.07” 52.6 mm	1.12” 28.6 mm	1.50” 36.5 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1211006-12-12	3.52” 89.4 mm	2.29” 58.2 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2B
PS1611006-16-16	3.61” 91.8 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2B

Female SAE Straight Thread - Female SAE Straight Thread

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS411010-4-4	2.60" 66.1 mm	1.85" 47.0 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS611010-6-6	2.77" 70.4 mm	1.92" 48.8 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS811010-8-8	2.93" 74.4 mm	1.96" 50.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1211010-12-12	3.39" 86.2 mm	2.16" 55.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2B
PS1611010-16-16	3.52" 89.4 mm	2.26" 57.4 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2B

Large Sizes

Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2411010-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2B	1 5/8-12 UN-2B
PS2411010-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2B	1 7/8-12 UN-2B
PS3211010-32-32	6.83" 173.6 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2B	2-1/2-12 UN-2B

Female SAE Straight Thread - O-Ring Face Seal

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS4110JM-4-4	2.72" 69.1 mm	1.97" 50.0 mm	.75" 19.0 mm	1.19" 30.2 mm	7/16-20 UNF-2B	9/16-18 UNF-2A
PS6110JM-6-6	2.93" 74.4 mm	2.08" 52.8 mm	.88" 22.2 mm	1.31" 33.3 mm	9/16-18 UNF-2B	11/16-16 UN-2A
PS8110JM-8-8	3.14" 79.7 mm	2.17" 55.1 mm	1.12" 28.6 mm	1.50" 36.5 mm	3/4-16 UNF-2B	13/16-16 UN-2A
PS12110JM-12-12	3.59" 91.1 mm	2.36" 60.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-1/16-12 UN-2B	1-3/16-12 UN-2A
PS16110JM-16-16	3.62" 91.9 mm	2.36" 60.0 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-5/16-12 UN-2B	1-7/16-12 UN-2A

O-Ring Face Seal - Female Pipe

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM02-4-4	2.73" 69.2 mm	1.85" 47.0 mm	.75" 19.0 mm	1.19" 30.2 mm	9/16-18 UNF-2A	1/4-18 NPTF
PS61JM02-6-6	2.85" 72.5 mm	1.92" 48.8 mm	.88" 22.2 mm	1.31" 33.3 mm	11/16-16 UN-2A	3/8-18 NPTF
PS81JM02-8-8	3.00" 76.1 mm	1.96" 50.0 mm	1.12" 28.6 mm	1.50" 36.5 mm	13/16-16 UN-2A	1/2-14 NPTF
PS121JM02-12-12	3.39" 86.2 mm	2.16" 55.0 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-3/16-12 UN-2A	3/4-14 NPTF
PS161JM02-16-16	3.52" 89.4 mm	2.26" 57.4 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-7/16-12 UN-2A	1-11 1/2 NPTF

O-Ring Face Seal - 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM03-4-4	2.96" 75.2 mm	2.08" 53.0 mm	.75" 19.0 mm	1.19" 30.2 mm	9/16-18 UN-2A	7/16-20 UN-2A
PS61JM03-6-6	3.11" 78.9 mm	2.18" 55.2 mm	.88" 22.2 mm	1.31" 33.3 mm	11/16-16 UN-2A	9/16-18 UN-2A
PS81JM03-8-8	3.41" 86.6 mm	2.38" 60.3 mm	1.12" 28.6 mm	1.50" 36.5 mm	13/16-16 UN-2A	3/4-16 UN-2A
PS81JM03-10-10	3.61" 91.7 mm	2.48" 62.9 mm	1.12" 28.6 mm	1.50" 36.5 mm	1-14 UN-2A	7/8-14 UN-2A
PS121JM03-12-12	3.80" 96.5 mm	2.57" 65.3 mm	1.38" 35.0 mm	1.69" 42.9 mm	1-3/16-12 UNF-2A	1-1/16-12 UNF-2A
PS161JM03-16-16	3.86" 98.1 mm	2.60" 66.2 mm	1.62" 41.3 mm	1.88" 47.6 mm	1-7/16-12 UNF-2A	1-5/16-12 UNF-2A

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

O-Ring Face Seal - Female 37° Flare

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM06-4-4	2.82” 71.5 mm	1.94” 49.3 mm	.75” 19.0 mm	1.19” 30.2 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS61JM06-6-6	2.94” 74.6 mm	2.00” 50.9 mm	.88” 22.2 mm	1.31” 33.3 mm	11/16-16 UNF-2A	9/16-18 UNF-2B
PS81JM06-8-8	3.10” 78.8 mm	2.07” 52.6 mm	1.12” 28.6 mm	1.44” 36.5 mm	13/16-16 UNF-2A	3/4-16 UNF-2B
PS121JM06-12-12	3.52” 89.4 mm	2.29” 58.2 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS161JM06-16-16	3.61” 91.8 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

O-Ring Face Seal - Female SAE Straight Thread

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JM10-4-4	2.73” 69.2 mm	1.85” 47.0 mm	.75” 19.0 mm	1.19” 30.2 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS61JM10-6-6	2.85” 72.5 mm	1.92” 48.8 mm	.88” 22.2 mm	1.31” 33.3 mm	11/16-16 UN-2A	9/16-18 UNF-2B
PS81JM10-8-8	3.00” 76.1 mm	1.96” 50.0 mm	1.12” 28.6 mm	1.50” 36.5 mm	13/16-16 UN-2A	3/4-16 UNF-2B
PS121JM10-12-12	3.39” 86.2 mm	2.16” 55.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS161JM10-16-16	3.52” 89.4 mm	2.26” 57.4 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

O-Ring Face Seal - O-Ring Face Seal

Part Number	A	B	Hex 1	Hex 2	Port 1	Port 2
PS41JMJM-4-4	2.85” 72.3 mm	1.97” 50.0 mm	.75” 19.0 mm	1.19” 30.2 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS61JMJM-6-6	3.01” 76.5 mm	2.08” 52.8 mm	.88” 22.2 mm	1.31” 33.3 mm	11/16-16 UN-2A	11/16-16 UN-2A
PS81JMJM-8-8	3.20” 81.4 mm	2.17” 55.1 mm	1.12” 28.6 mm	1.50” 36.5 mm	13/16-16 UN-2A	13/16-16 UN-2A
PS81JMJM-10-10	3.41” 86.6 mm	2.28” 57.8 mm	1.12” 28.6 mm	1.50” 36.5 mm	1-14 UN-2A	1-14 UN-2A
PS121JMJM-12-12	3.59” 91.2 mm	2.36” 60.0 mm	1.38” 35.0 mm	1.69” 42.9 mm	1-3/16-12 UN-2A	1-3/16-12 UN-2A
PS161JMJM-16-16	3.62” 91.9 mm	2.36” 60.0 mm	1.62” 41.3 mm	1.88” 47.6 mm	1-7/16-12 UN-2A	1-7/16-12 UN-2A

Materials Of Construction

Housing: ..... Carbon Steel

Shaft: ..... Carbon Steel

Plating:* ..... Zinc with Yellow Chromate (Standard)

Bearing: ..... Chrome

O-Rings:* ..... Buna-N (Standard)

Back-Up Ring: ..... Teflon

* See How-To-Order For optional plating and seal materials

Male Pipe - Female Pipe

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490102-4-4	3.14" 79.7 mm	2.73" 69.4 mm	1.20" 30.5 mm	.75" 19.0 mm	1/4-18 NPTF	1/4-18 NPTF
PS690102-6-6	3.39" 86.1 mm	2.88" 73.2 mm	1.29" 32.8 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
PS890102-8-8	3.76" 95.6 mm	3.17" 80.6 mm	1.49" 37.8 mm	1.12" 28.6 mm	1/2-14 NPTF	1/2-14 NPTF
PS1290102-12-12	4.10" 104.2 mm	3.43" 87.2 mm	1.76" 44.6 mm	1.38" 35.0 mm	3/4-14 NPTF	3/4-14 NPTF
PS1690102-16-16	4.67" 118.7 mm	3.81" 96.7 mm	2.16" 54.9 mm	1.62" 41.3 mm	1-11 1/2 NPTF	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	C	D	Dia.	Wrench Flats	Port 1	Port 2
PS2490102-20-20	6.06" 154.0 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 (NPTF)	1 1/4-11 1/2 (NPTF)
PS2490102-24-24	6.06" 154.0 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/2-11 1/2 (NPTF)	1 1/2-11 1/2 (NPTF)
PS3290102-32-32	7.08" 179.8 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 (NPTF)	2-11-1/2 (NPTF)

Male Pipe - 37° Flare

Part Number	A	B	C	D	Dia	Hex 1	Hex 2	Port 1	Port 2
PS490103-4-4	3.14" 79.7 mm	2.73" 69.4 mm	1.39" 35.2 mm	1.99" 50.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690103-6-6	3.39" 86.1 mm	2.88" 73.2 mm	1.44" 36.6 mm	2.09" 53.0 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890103-8-8	3.76" 95.6 mm	3.17" 80.6 mm	1.78" 45.1 mm	2.64" 67.1 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290103-12-12	4.10" 104.2 mm	3.43" 87.2 mm	2.24" 56.9 mm	3.86" 85.3 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690103-16-16	4.67" 118.7 mm	3.81" 96.7 mm	2.42" 61.3 mm	3.66" 92.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Male Pipe - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490105-4-4	3.14" 79.7 mm	2.73" 69.4 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690105-6-6	3.39" 86.1 mm	2.88" 73.2 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890105-8-8	3.76" 95.6 mm	3.17" 80.6 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290105-12-12	4.10" 104.2 mm	3.43" 87.2 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690105-16-16	4.67" 118.7 mm	3.81" 96.7 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Male Pipe - Female 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490106-4-4	3.14" 79.7 mm	2.73" 69.4 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS690106-6-6	3.39" 86.1 mm	2.88" 73.2 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS890106-8-8	3.76" 95.6 mm	3.17" 80.6 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1290106-12-12	4.10" 104.2 mm	3.43" 87.2 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1690106-16-16	4.67" 118.7 mm	3.81" 96.7 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-5/16-12 UN-2B

Male Pipe - Female Pipe Swivel

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490107-4-4	3.14" 79.7 mm	2.73" 69.4 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	1/4-18 NPTF	1/4-18 NPSM
PS690107-6-6	3.39" 86.1 mm	2.88" 73.2 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPSM
PS890107-8-8	3.76" 95.6 mm	3.17" 80.6 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPSM
PS1290107-12-12	4.10" 104.2 mm	3.43" 87.2 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	3/4-14 NPSM
PS1690107-16-16	4.67" 118.7 mm	3.81" 96.7 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-11 1/2 NPSM

Male Pipe - Female SAE Straight Thread

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490110-4-4	3.14" 79.7 mm	2.73" 69.4 mm	1.20" 30.5 mm	.75" 19.0 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS690110-6-6	3.39" 86.1 mm	2.88" 73.2 mm	1.29" 32.8 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS890110-8-8	3.76" 95.6 mm	3.17" 80.6 mm	1.73" 44.0 mm	1.12" 28.6 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1290110-12-12	4.10" 104.2 mm	3.43" 87.2 mm	2.17" 55.2 mm	1.38" 35.0 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1690110-16-16	4.67" 118.7 mm	3.81" 96.7 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-11 1/2 NPTF	1-5/16-12 UN-2B

Large Sizes

Part Number	A	B	C	D	Dia	Wrench Flats	Port 1	Port 2
PS2490110-20-20	6.06" 154.0 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2B
PS2490110-24-24	6.06" 154.0 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/2-11 1/2 NPTF	1 7/8-12 UN-2B
PS3290110-32-32	7.08" 179.8 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 NPTF	2-1/2-12 UN-2B

Male Pipe - O-Ring Face Seal

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4901JM-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.29” 32.5 mm	1.89” 47.9 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6901JM-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.40” 35.6 mm	2.05” 52.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8901JM-8-8	3.76” 95.6 mm	3.17” 80.6 mm	1.74” 44.1 mm	2.60” 66.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12901JM-12-12	4.10” 104.2 mm	3.43” 87.2 mm	2.18” 55.4 mm	3.27” 83.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16901JM-16-16	4.67” 118.7 mm	3.81” 96.7 mm	2.34” 59.6 mm	3.59” 91.1 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-11 1/2 NPTF	1-7/16-12 UN-2A

Female Pipe - Female Pipe

Part Number	A	B	Dia	Hex 1	Port 1	Port 2
PS490202-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.20” 30.5 mm	.75” 19.0 mm	1/4-18 NPTF	1/4-18 NPTF
PS690202-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.29” 32.8 mm	.88” 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
PS890202-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.49” 37.8 mm	1.12” 28.6 mm	1/2-14 NPTF	1/2-14 NPTF
PS1290202-12-12	3.78” 96.0 mm	3.11” 79.0 mm	1.76” 44.6 mm	1.38” 35.0 mm	3/4-14 NPTF	3/4-14 NPTF
PS1690202-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.16” 54.9 mm	1.62” 41.3 mm	1-11 1/2 NPTF	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2490202-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 1/4-11 1/2 NPTF
PS2490202-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/2-11 1/2 NPTF	1 1/2-11 1/2 NPTF
PS3290202-32-32	6.75" 171.5 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 NPTF	2 11-1/2 NPTF

Female Pipe - 37° Flare

Part Number	A	B	C	D	Dia	Hex 1	Hex 2	Port 1	Port 2
PS490203-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.39” 35.2 mm	1.99” 50.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690203-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.44” 36.6 mm	2.09” 53.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890203-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.78” 45.1 mm	2.64” 67.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290203-12-12	3.78” 96.0 mm	3.11” 79.0 mm	2.24” 56.9 mm	3.86” 85.3 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690203-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.42” 61.3 mm	3.66” 92.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Large Sizes

Part Number	A	B	C	D	E	Hex	Wrench Flats	Dia.	Port 1	Port 2
PS2490203-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	2.85" 72.4 mm	4.53" 115.0 mm	1.88" 47.6 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2A
PS2490203-24-24	5.94" 150.9 mm	4.65" 118.2 mm	3.43" 87.0 mm	3.05" 77.6 mm	4.73" 120.2 mm	2.13" 54.0 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/2-11 1/2 NPTF	17/8-12 UN-2A
PS3290203-32-32	6.82" 173.1 mm	5.51" 140.0 mm	3.93" 99.7 mm	3.70" 94.0 mm	5.80" 147.2 mm	2.75" 69.8 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 NPTF	2 1/2-12 UN-2A

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Female Pipe - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490205-4-4	2.87" 72.8 mm	2.46" 62.5 mm	1.38" 35.0 mm	1.98" 50.2 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690205-6-6	3.19" 80.9 mm	2.68" 68.0 mm	1.55" 39.4 mm	2.20" 55.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890205-8-8	3.46" 87.8 mm	2.87" 72.8 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290205-12-12	3.78" 96.0 mm	3.11" 79.0 mm	2.40" 61.0 mm	3.49" 88.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690205-16-16	4.32" 109.8 mm	3.46" 87.9 mm	2.50" 63.4 mm	3.74" 94.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Female Pipe - Female 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490206-4-4	2.87" 72.8 mm	2.46" 62.5 mm	1.47" 37.3 mm	2.07" 52.5 mm	1.20" 30.5 mm	.75" 19.0 mm	.56" 14.3 mm	1/4-18 NPTF	7/16-20 UNF-2A
PS690206-6-6	3.19" 80.9 mm	2.68" 68.0 mm	1.57" 39.9 mm	2.22" 56.3 mm	1.29" 32.8 mm	.88" 22.2 mm	.69" 17.5 mm	3/8-18 NPTF	9/16-18 UNF-2A
PS890206-8-8	3.46" 87.8 mm	2.87" 72.8 mm	1.91" 48.4 mm	2.77" 70.4 mm	1.73" 44.0 mm	1.12" 28.6 mm	.88" 22.2 mm	1/2-14 NPTF	3/4-16 UNF-2A
PS1290206-12-12	3.78" 96.0 mm	3.11" 79.0 mm	2.34" 59.4 mm	3.43" 87.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	1-1/16-12 UN-2A
PS1690206-16-16	4.32" 109.8 mm	3.46" 87.9 mm	2.54" 64.6 mm	3.79" 96.2 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-5/16-12 UN-2A

Female Pipe - Female Pipe Swivel

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490207-4-4	2.87" 72.8 mm	2.46" 62.5 mm	1.48" 37.5 mm	2.08" 52.8 mm	1.20" 30.5 mm	.75" 19.0 mm	.69" 17.4 mm	1/4-18 NPTF	1/4-18 NPSM
PS690207-6-6	3.19" 80.9 mm	2.68" 68.0 mm	1.51" 38.4 mm	2.16" 54.8 mm	1.29" 32.8 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPSM
PS890207-8-8	3.46" 87.8 mm	2.87" 72.8 mm	1.86" 47.2 mm	2.72" 69.2 mm	1.73" 44.0 mm	1.12" 28.6 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPSM
PS1290207-12-12	3.78" 96.0 mm	3.11" 79.0 mm	2.24" 56.9 mm	3.33" 84.5 mm	2.17" 55.2 mm	1.38" 35.0 mm	1.25" 31.8 mm	3/4-14 NPTF	3/4-14 NPSM
PS1690207-16-16	4.32" 109.8 mm	3.46" 87.9 mm	2.48" 63.1 mm	3.73" 94.6 mm	2.48" 63.0 mm	1.62" 41.3 mm	1.50" 38.1 mm	1-11 1/2 NPTF	1-11 1/2 NPSM

Female Pipe - Female SAE Straight Thread

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490210-4-4	2.87" 72.8 mm	2.46" 62.5 mm	1.20" 30.5 mm	.75" 19.0 mm	1/4-18 NPTF	7/16-20 UNF-2B
PS690210-6-6	3.19" 80.9 mm	2.68" 68.0 mm	1.29" 32.8 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18 UNF-2B
PS890210-8-8	3.46" 87.8 mm	2.87" 72.8 mm	1.73" 44.0 mm	1.12" 28.6 mm	1/2-14 NPTF	3/4-16 UNF-2B
PS1290210-12-12	3.78" 96.0 mm	3.11" 79.0 mm	2.17" 55.2 mm	1.38" 35.0 mm	3/4-14 NPTF	1-1/16-12 UN-2B
PS1690210-16-16	4.32" 109.8 mm	3.46" 87.9 mm	2.48" 63.0 mm	1.62" 41.3 mm	1-11 1/2 NPTF	1-5/16-12 UN-2B

Large Sizes

Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2490210-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2B
PS2490210-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 1/4-11 1/2 NPTF	1 5/8-12 UN-2B
PS3290210-32-32	6.75" 171.5 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 NPTF	2-1/2-12 UN-2B

Female Pipe - O-Ring Face Seal

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4902JM-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.29” 32.5 mm	1.89” 47.9 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	1/4-18 NPTF	9/16-18 UNF-2A
PS6902JM-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.40” 35.6 mm	2.05” 52.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	3/8-18 NPTF	11/16-16 UN-2A
PS8902JM-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.74” 44.1 mm	2.60” 66.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	1/2-14 NPTF	13/16-16 UN-2A
PS12902JM-12-12	3.78” 96.0 mm	3.11” 79.0 mm	2.18” 55.4 mm	3.27” 83.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	3/4-14 NPTF	1-3/16-12 UN-2A
PS16902JM-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.34” 59.6 mm	3.59” 91.1 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-11 1/2 NPTF	1-7/16-12 UN-2A

37° Flare - Female Pipe

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490302-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.20” 30.5 mm	.75” 19.0 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS690302-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.29” 32.8 mm	.88” 22.2 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS890302-8-8	3.67” 93.2 mm	3.08” 78.2 mm	1.49” 37.8 mm	1.12” 28.6 mm	3/4-16 UNF-2A	1/2-14 NPTF
PS1290302-12-12	4.21” 106.8 mm	3.54” 89.8 mm	1.76” 44.6 mm	1.38” 35.0 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1690302-16-16	4.67” 118.7 mm	3.81”	2.16” 54.9 mm	1.62” 41.3 mm	1-5/16-12 UN-2A	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2490302-20-20	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 1/4-11 1/2 NPTF
PS2490302-24-24	6.16" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2A	1 1/2-11 1/2 NPTF
PS3290302-32-32	7.38" 187.4 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2-11-1/2 NPTF

37° Flare - 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490303-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.39” 35.2 mm	1.99” 50.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690303-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.44” 36.6 mm	2.09” 53.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890303-8-8	3.67” 93.2 mm	3.08” 78.2 mm	1.78” 45.1 mm	2.64” 67.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS890303-10-10	3.77” 95.8 mm	3.18” 80.8 mm	1.90” 48.4 mm	2.77” 70.4 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1290303-12-12	4.21” 106.8 mm	3.54” 89.8 mm	2.24” 56.9 mm	3.86” 85.3 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690303-16-16	4.67” 118.7 mm	3.81”	2.42” 61.3 mm	3.66” 92.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

Large Sizes

Part Number	A	B	C	D	E	Hex	Wrench Flats	Dia.	Port 1	Port 2
PS2490303-20-20	6.16" 156.4 mm	4.63" 117.5 mm	3.43" 87.0 mm	2.85" 72.4 mm	4.53" 115.0 mm	1.88" 47.6 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2A
PS2490303-24-24	5.81" 157.1 mm	4.65" 118.2 mm	3.43" 87.0 mm	3.05" 77.6 mm	4.73" 120.2 mm	2.13" 54.0 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2A	17/8-12 UN-2A
PS3290303-32-32	7.44" 189.0 mm	5.51" 140.0 mm	3.93" 99.7 mm	3.70" 94.0 mm	5.80" 147.2 mm	2.75" 69.8 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2 1/2-12 UN-2A

37° Flare - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490305-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.38” 35.0 mm	1.98” 50.2 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690305-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.55” 39.4 mm	2.20” 55.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890305-8-8	3.67” 93.2 mm	3.08” 78.2 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS1290305-12-12	4.21” 106.8 mm	3.54” 89.8 mm	2.40” 61.0 mm	3.49” 88.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690305-16-16	4.67” 118.7 mm	3.81”	2.50” 63.4 mm	3.74” 94.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

37° Flare - Female 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490306-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.47” 37.3 mm	2.07” 52.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690306-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.57” 39.9 mm	2.22” 56.3 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890306-8-8	3.67” 93.2 mm	3.08” 78.2 mm	1.91” 48.4 mm	2.77” 70.4 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290306-12-12	4.21” 106.8 mm	3.54” 89.8 mm	2.34” 59.4 mm	3.43” 87.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690306-16-16	4.67” 118.7 mm	3.81”	2.54” 64.6 mm	3.79” 96.2 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

37° Flare - Female Pipe Swivel

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490307-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.48” 37.5 mm	2.08” 52.8 mm	1.20” 30.5 mm	.75” 19.0 mm	.69” 17.4 mm	7/16-20 UNF-2A	1/4-18 NPSM
PS690307-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.51” 38.4 mm	2.16” 54.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.88” 22.2 mm	9/16-18 UNF-2A	3/8-18 NPSM
PS890307-8-8	3.67” 93.2 mm	3.08” 78.2 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	1.00” 25.4 mm	3/4-16 UNF-2A	1/2-14 NPSM
PS1290307-12-12	4.21” 106.8 mm	3.54” 89.8 mm	2.24” 56.9 mm	3.33” 84.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	3/4-14 NPSM
PS1690307-16-16	4.67” 118.7 mm	3.81”	2.48” 63.1 mm	3.73” 94.6 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-11 1/2 NPSM

37° Flare - Female SAE Straight Thread

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490310-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.20” 30.5 mm	.75” 19.0 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690310-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.29” 32.8 mm	.88” 22.2 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890310-8-8	3.67” 93.2 mm	3.08” 78.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290310-12-12	4.21” 106.8 mm	3.54” 89.8 mm	2.17” 55.2 mm	1.38” 35.0 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690310-16-16	4.67” 118.7 mm	3.81”	2.48” 63.0 mm	1.62” 41.3 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B

37° Flare - O-Ring Face Seal

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4903JM-4-4	3.14” 79.7 mm	2.73” 69.4 mm	1.29” 32.5 mm	1.89” 47.9 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6903JM-6-6	3.39” 86.1 mm	2.88” 73.2 mm	1.40” 35.6 mm	2.05” 52.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	11/16-16 UN-2A
PS8903JM-8-8	3.67” 93.2 mm	3.08” 78.2 mm	1.74” 44.1 mm	2.60” 66.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	13/16-16 UN-2A
PS8903JM-10-10	3.77” 95.8 mm	3.18” 80.8 mm	1.96” 49.9 mm	2.83” 71.9 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	7/8-14 UNF-2A	7/8-14 UN-2A
PS12903JM-12-12	4.21” 106.8 mm	3.54” 89.8 mm	2.18” 55.4 mm	3.27” 83.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16903JM-16-16	4.67” 118.7 mm	3.81”	2.34” 59.6 mm	3.59” 91.1 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

Male SAE O-Ring Straight Thread - Female Pipe

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490502-4-4	2.93” 74.5 mm	2.53” 64.2 mm	1.20” 30.5 mm	.75” 19.0 mm	7/16-20 UNF-2A	1/4-18 NPTF
PS690502-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.29” 32.8 mm	.88” 22.2 mm	9/16-18 UNF-2A	3/8-18 NPTF
PS890502-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.49” 37.8 mm	1.12” 28.6 mm	3/4-16 UNF-2A	1/2-14 NPTF
PS1290502-12-12	3.94” 100.0 mm	3.27” 83.0 mm	1.76” 44.6 mm	1.38” 35.0 mm	1-1/16-12 UN-2A	3/4-14 NPTF
PS1690502-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.16” 54.9 mm	1.62” 41.3 mm	1-5/16-12 UN-2A	1-11 1/2 NPTF

Large Sizes

Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2490502-20-20	5.78" 146.8 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 1/4-11 1/2 NPTF
PS2490502-24-24	5.78" 146.8 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2A	1 1/2-11 1/2 NPTF
PS3290502-32-32	6.62" 168.1 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2-11 1/2 NPTF

Male SAE O-Ring Straight Thread - 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490503-4-4	2.93” 74.5 mm	2.53” 64.2 mm	1.39” 35.2 mm	1.99” 50.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690503-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.44” 36.6 mm	2.09” 53.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890503-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.78” 45.1 mm	2.64” 67.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS890503-10-10	3.51” 89.2 mm	2.92” 74.2 mm	1.90” 48.4 mm	2.77” 70.4 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	7/8-14 UNF-2A	7/8-14 UNF-2A
PS1290503-12-12	3.94” 100.0 mm	3.27” 83.0 mm	2.24” 56.9 mm	3.86” 85.3 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690503-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.42” 61.3 mm	3.66” 92.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

Large Sizes

Part Number	A	B	C	D	E	Hex	Wrench Flats	Dia.	Port 1	Port 2
PS2490503-20-20	5.78" 146.8 mm	4.63" 117.5 mm	3.43" 87.0 mm	2.85" 72.4 mm	4.53" 115.0 mm	1.88" 47.6 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2A	1 5/8-12 UN-2A
PS2490503-24-24	5.81" 147.5 mm	4.65" 118.2 mm	3.43" 87.0 mm	3.05" 77.6 mm	4.73" 120.2 mm	2.13" 54.0 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2A	17/8-12 UN-2A
PS3290503-32-32	6.68" 169.7 mm	5.51" 140.0 mm	3.93" 99.7 mm	3.70" 94.0 mm	5.80" 147.2 mm	2.75" 69.8 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 1/2-12 UN-2A	2 1/2-12 UN-2A

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Male SAE O-Ring Straight Thread - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490505-4-4	2.93” 74.5 mm	2.53” 64.2 mm	1.38” 35.0 mm	1.98” 50.2 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2A
PS690505-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.55” 39.4 mm	2.20” 55.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS890505-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2A
PS1290505-12-12	3.94” 100.0 mm	3.27” 83.0 mm	2.40” 61.0 mm	3.49” 88.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2A
PS1690505-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.50” 63.4 mm	3.74” 94.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2A

Male SAE O-Ring Straight Thread - Female 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490506-4-4	2.93” 74.5 mm	2.53” 64.2 mm	1.47” 37.3 mm	2.07” 52.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690506-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.57” 39.9 mm	2.22” 56.3 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890506-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.91” 48.4 mm	2.77” 70.4 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290506-12-12	3.94” 100.0 mm	3.27” 83.0 mm	2.34” 59.4 mm	3.43” 87.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690506-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.54” 64.6 mm	3.79” 96.2 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male SAE O-Ring Straight Thread - Female Pipe Swivel

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS490507-4-4	2.93” 74.5 mm	2.53” 64.2 mm	1.48” 37.5 mm	2.08” 52.8 mm	1.20” 30.5 mm	.75” 19.0 mm	.69” 17.4 mm	7/16-20 UNF-2A	1/4-18 NPSM
PS690507-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.51” 38.4 mm	2.16” 54.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.88” 22.2 mm	9/16-18 UNF-2A	3/8-18 NPSM
PS890507-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	1.00” 25.4 mm	3/4-16 UNF-2A	1/2-14 NPSM
PS1290507-12-12	3.94” 100.0 mm	3.27” 83.0 mm	2.24” 56.9 mm	3.33” 84.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	3/4-14 NPSM
PS1690507-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.48” 63.1 mm	3.73” 94.6 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-11 1/2 NPSM

Male SAE O-Ring Straight Thread - Female SAE Straight Thread

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS490510-4-4	2.93” 74.5 mm	2.53” 64.2 mm	1.20” 30.5 mm	.75” 19.0 mm	7/16-20 UNF-2A	7/16-20 UNF-2B
PS690510-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.29” 32.8 mm	.88” 22.2 mm	9/16-18 UNF-2A	9/16-18 UNF-2B
PS890510-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.73” 44.0 mm	1.12” 28.6 mm	3/4-16 UNF-2A	3/4-16 UNF-2B
PS1290510-12-12	3.94” 100.0 mm	3.27” 83.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1-1/16-12 UN-2A	1-1/16-12 UN-2B
PS1690510-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1-5/16-12 UN-2A	1-5/16-12 UN-2B

Male SAE O-Ring Straight Thread - O-Ring Face Seal

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4905JM-4-4	2.93” 74.5 mm	2.53” 64.2 mm	1.29” 32.5 mm	1.89” 47.9 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2A	9/16-18 UNF-2A
PS6905JM-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.40” 35.6 mm	2.05” 52.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2A	11/16-16 UN-2A
PS8905JM-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.74” 44.1 mm	2.60” 66.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2A	13/16-16 UN-2A
PS8905JM-10-10	3.51” 89.2 mm	2.92” 74.2 mm	1.96” 49.9 mm	2.83” 71.9 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	7/8-14 UNF-2A	1-14 UN-2A
PS12905JM-12-12	3.94” 100.0 mm	3.27” 83.0 mm	2.18” 55.4 mm	3.27” 83.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2A	1-3/16-12 UN-2A
PS16905JM-16-16	4.32” 109.8 mm	3.46” 87.9 mm	2.34” 59.6 mm	3.59” 91.1 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2A	1-7/16-12 UN-2A

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Female SAE Straight Thread - Female Pipe

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS491002-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.20” 30.5 mm	.75” 19.0 mm	7/16-20 UNF-2B	1/4-18 NPTF
PS691002-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.29” 32.8 mm	.88” 22.2 mm	9/16-18 UNF-2B	3/8-18 NPTF
PS891002-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.49” 37.8 mm	1.12” 28.6 mm	3/4-16 UNF-2B	1/2-14 NPTF
PS1291002-12-12	4.04” 102.6 mm	3.37” 85.6 mm	1.76” 44.6 mm	1.38” 35.0 mm	1-1/16-12 UN-2B	3/4-14 NPTF
PS1691002-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.16” 54.9 mm	1.62” 41.3 mm	1-5/16-12 UN-2B	1-11 1/2 NPTF

Female SAE Straight Thread - 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491003-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.39” 35.2 mm	1.99” 50.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2B	7/16-20 UNF-2A
PS691003-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.44” 36.6 mm	2.09” 53.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2B	9/16-18 UNF-2A
PS891003-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.78” 45.1 mm	2.64” 67.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2B	3/4-16 UNF-2A
PS1291003-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.24” 56.9 mm	3.86” 85.3 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2A
PS1691003-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.42” 61.3 mm	3.66” 92.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2A

Female SAE Straight Thread - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491005-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.38” 35.0 mm	1.98” 50.2 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2B	7/16-20 UNF-2A
PS691005-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.55” 39.4 mm	2.20” 55.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2B	9/16-18 UNF-2A
PS891005-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2B	3/4-16 UNF-2A
PS1291005-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.40” 61.0 mm	3.49” 88.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2A
PS1691005-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.50” 63.4 mm	3.74” 94.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2A

Female SAE Straight Thread - Female 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491006-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.47” 37.3 mm	2.07” 52.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS691006-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.57” 39.9 mm	2.22” 56.3 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS891006-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.91” 48.4 mm	2.77” 70.4 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1291006-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.34” 59.4 mm	3.43” 87.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2B	1-1/16-12 UN-2B
PS1691006-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.54” 64.6 mm	3.79” 96.2 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2B	1-5/16-12 UN-2B

Female SAE Straight Thread - Female Pipe Swivel

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS491007-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.48” 37.5 mm	2.08” 52.8 mm	1.20” 30.5 mm	.75” 19.0 mm	.69” 17.4 mm	7/16-20 UNF-2B	1/4-18 NPSM
PS691007-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.51” 38.4 mm	2.16” 54.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.88” 22.2 mm	9/16-18 UNF-2B	3/8-18 NPSM
PS891007-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	1.00” 25.4 mm	3/4-16 UNF-2B	1/2-14 NPSM
PS1291007-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.24” 56.9 mm	3.33” 84.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2B	3/4-14 NPSM
PS1691007-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.48” 63.1 mm	3.73” 94.6 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2B	1-11 1/2 NPSM

Female SAE Straight Thread - Female SAE Straight Thread

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS491010-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.20” 30.5 mm	.75” 19.0 mm	7/16-20 UNF-2B	7/16-20 UNF-2B
PS691010-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.29” 32.8 mm	.88” 22.2 mm	9/16-18 UNF-2B	9/16-18 UNF-2B
PS891010-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.73” 44.0 mm	1.12” 28.6 mm	3/4-16 UNF-2B	3/4-16 UNF-2B
PS1291010-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.17” 55.2 mm	1.38” 35.0 mm	1-1/16-12 UN/-2B	1-1/16-12 UN-2B
PS1691010-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.48” 63.0 mm	1.62” 41.3 mm	1-5/16-12 UN/-2B	1-5/16-12 UN-2B

Large Sizes

Part Number	A	B	C	D	Wrench Flats	Dia.	Port 1	Port 2
PS2491010-20-20	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 5/8-12 UN-2B	1 5/8-12 UN-2B
PS2491010-24-24	5.91" 150.2 mm	4.63" 117.5 mm	3.43" 87.0 mm	1.27" 32.3 mm	2.63" 66.7 mm	3.36" 85.2 mm	1 7/8-12 UN-2B	1 7/8-12 UN-2B
PS3291010-32-32	6.83" 179.8 mm	5.45" 138.4 mm	3.93" 99.7 mm	1.52" 38.5 mm	3.06" 77.6 mm	4.19" 106.4 mm	2 11-1/2 UN-2B	2-1/2-12 UN-2B

Female SAE Straight Thread - O-Ring Face Seal

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS4910JM-4-4	2.87” 72.8 mm	2.46” 62.5 mm	1.29” 32.5 mm	1.89” 47.9 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	7/16-20 UNF-2B	9/16-18 UNF-2A
PS6910JM-6-6	3.19” 80.9 mm	2.68” 68.0 mm	1.40” 35.6 mm	2.05” 52.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	9/16-18 UNF-2B	11/16-16 UNF-2A
PS8910JM-8-8	3.46” 87.8 mm	2.87” 72.8 mm	1.74” 44.1 mm	2.60” 66.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	3/4-16 UNF-2B	13/16-16 UN-2A
PS12910JM-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.18” 55.4 mm	3.27” 83.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-1/16-12 UN-2B	1-3/16-12 UN-2A
PS16910JM-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.34” 59.6 mm	3.59” 91.1 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-5/16-12 UN-2B	1-7/16-12 UN-2A

O-Ring Face Seal - Female Pipe

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS49JM02-4-4	2.99” 76.0 mm	2.59” 65.7 mm	1.20” 30.5 mm	.75” 19.0 mm	9/16-18 UNF-2A	1/4-18 NPTF
PS69JM02-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.29” 32.8 mm	.88” 22.2 mm	11/16-16 UN-2A	3/8-18 NPTF
PS89JM02-8-8	3.52” 89.5 mm	2.93” 74.5 mm	1.49” 37.8 mm	1.12” 28.6 mm	13/16-16 UN-2A	1/2-14 NPTF
PS129JM02-12-12	4.04” 102.6 mm	3.37” 85.6 mm	1.76” 44.6 mm	1.38” 35.0 mm	1-3/16-12 UN-2A	3/4-14 NPTF
PS169JM02-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.16” 54.9 mm	1.62” 41.3 mm	1-7/16-12 UN-2A	1-11 1/2 NPTF

O-Ring Face Seal - 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM03-4-4	2.99” 76.0 mm	2.59” 65.7 mm	1.39” 35.2 mm	1.99” 50.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	9/16-18 UNF-2A	7/16-20 UNF-2A
PS69JM03-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.44” 36.6 mm	2.09” 53.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	11/16-16 UN-2A	9/16-18 UNF-2A
PS89JM03-8-8	3.52” 89.5 mm	2.93” 74.5 mm	1.78” 45.1 mm	2.64” 67.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	13/16-16 UN-2A	3/4-16 UNF-2A
PS89JM03-10-10	3.62” 92.0 mm	3.03” 77.0 mm	1.90” 48.4 mm	2.77” 70.4 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	7/8-14 UN-2A	7/8-14 UNF-2A
PS129JM03-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.24” 56.9 mm	3.86” 85.3 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2A
PS169JM03-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.42” 61.3 mm	3.66” 92.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2A

O-Ring Face Seal - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM05-4-4	2.99” 76.0 mm	2.59” 65.7 mm	1.38” 35.0 mm	1.98” 50.2 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	9/16-18 UNF-2A	7/16-20 UNF-2A
PS69JM05-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.55” 39.4 mm	2.20” 55.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	11/16-16 UN-2A	9/16-18 UNF-2A
PS89JM05-8-8	3.52” 89.5 mm	2.93” 74.5 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	13/16-16 UN-2A	3/4-16 UNF-2A
PS129JM05-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.40” 61.0 mm	3.49” 88.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2A
PS169JM05-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.50” 63.4 mm	3.74” 94.9 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2A

O-Ring Face Seal - Female 37° Flare

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM06-4-4	2.99” 76.0 mm	2.59” 65.7 mm	1.47” 37.3 mm	2.07” 52.5 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS69JM06-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.57” 39.9 mm	2.22” 56.3 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	11/16-16 UN-2A	9/16-18 UNF-2B
PS89JM06-8-8	3.52” 89.5 mm	2.93” 74.5 mm	1.91” 48.4 mm	2.77” 70.4 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	13/16-16 UN-2A	3/4-16 UNF-2B
PS129JM06-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.34” 59.4 mm	3.43” 87.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS169JM06-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.54” 64.6 mm	3.79” 96.2 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

O-Ring Face Seal - Female Pipe Seal

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JM07-4-4	2.99” 76.0 mm	2.59” 65.7 mm	1.48” 37.5 mm	2.08” 52.8 mm	1.20” 30.5 mm	.75” 19.0 mm	.69” 17.4 mm	9/16-18 UNF-2A	1/4-18 NPSM
PS69JM07-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.51” 38.4 mm	2.16” 54.8 mm	1.29” 32.8 mm	.88” 22.2 mm	.88” 22.2 mm	11/16-16 UN-2A	3/8-18 NPSM
PS89JM07-8-8	3.52” 89.5 mm	2.93” 74.5 mm	1.86” 47.2 mm	2.72” 69.2 mm	1.73” 44.0 mm	1.12” 28.6 mm	1.00” 25.4 mm	13/16-16 UN-2A	1/2-14 NPSM
PS129JM07-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.24” 56.9 mm	3.33” 84.5 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-3/16-12 UN-2A	3/4-14 NPSM
PS169JM07-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.48” 63.1 mm	3.73” 94.6 mm”	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-7/16-12 UN-2A	1-11 1/2 NPSM

O-Ring Face Seal - Female SAE Straight Thread

Part Number	A	B	Dia.	Hex 1	Port 1	Port 2
PS49JM10-4-4	2.99” 76.0 mm	2.59” 65.7 mm	1.20” 30.5 mm	.75” 19.0 mm	9/16-18 UNF-2A	7/16-20 UNF-2B
PS69JM10-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.29” 32.8 mm	.88” 22.2 mm	11/16-16 UN-2A	9/16-18 UNF-2B
PS89JM10-8-8	3.52” 89.5 mm	2.93” 74.5 mm	1.73” 44.0 mm	1.12” 28.6 mm	13/16-16 UN-2A	3/4-16 UNF-2B
PS129JM10-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.17” 55.2 mm	1.38” 35.0 mm	1-3/16-12 UN-2A	1-1/16-12 UN-2B
PS169JM10-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.48” 63.0 mm	1.62” 41.3 mm	1-7/16-12 UN-2A	1-5/16-12 UN-2B

O-Ring Face Seal - O-Ring Face Seal

Part Number	A	B	C	D	Dia.	Hex 1	Hex 2	Port 1	Port 2
PS49JMJM-4-4	2.99” 76.0 mm	2.59” 65.7 mm	1.29” 32.5 mm	1.89” 47.9 mm	1.20” 30.5 mm	.75” 19.0 mm	.56” 14.3 mm	9/16-18 UNF-2A	9/16-18 UNF-2A
PS69JMJM-6-6	3.27” 83.0 mm	2.76” 70.0 mm	1.40” 35.6 mm	2.05” 52.0 mm	1.29” 32.8 mm	.88” 22.2 mm	.69” 17.5 mm	11/16-16 UN-2A	11/16-16 UN-2A
PS89JMJM-8-8	3.52” 89.5 mm	2.93” 74.5 mm	1.74” 44.1 mm	2.60” 66.1 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	13/16-16 UN-2A	13/16-16 UN-2A
PS89JMJM-10-10	3.62” 92.0 mm	3.03” 77.0 mm	1.96” 49.9 mm	2.83” 71.9 mm	1.73” 44.0 mm	1.12” 28.6 mm	.88” 22.2 mm	1-14 UN-2A	1-14 UN-2A
PS129JMJM-12-12	4.04” 102.6 mm	3.37” 85.6 mm	2.18” 55.4 mm	3.27” 83.0 mm	2.17” 55.2 mm	1.38” 35.0 mm	1.25” 31.8 mm	1-3/16-12 UN-2A	1-3/16-12 UN-2A
PS169JMJM-16-16	4.45” 113.0 mm	3.58” 91.0 mm	2.34” 59.6 mm	3.59” 91.1 mm	2.48” 63.0 mm	1.62” 41.3 mm	1.50” 38.1 mm	1-7/16-12 UN-2A	1-7/16-12 UN-2A

Repair Kits/Seal Options

Repair Kits come complete with O-Rings, Teflon Back-Up Ring, Lock Washers, Cap Screws, Locking Balls, Retaining Ring and optional grease fitting

1/4" Swivel	3/8" Swivel	1/2" Swivel	3/4" Swivel	1" Swivel
PS4-RPR	PS6-RPR	PS8-RPR	PS12-RPR	PS16-RPR
PS4-GRPR	PS6-GRPR	PS8-GRPR	PS12-GRPR	PS16-GRPR
PS4Y-RPR	PS6Y-RPR	PS8Y-RPR	PS12Y-RPR	PS16Y-RPR
PS4Y-GRPR	PS6Y-GRPR	PS8Y-GRPR	PS12Y-GRPR	PS16Y-GRPR
PS4A-RPR	PS6A-RPR	PS8A-RPR	PS12A-RPR	PS16A-RPR
PS4A-GRPR	PS6A-GRPR	PS8A-GRPR	PS12A-GRPR	PS16A-GRPR
PS4W-RPR	PS6W-RPR	PS8W-RPR	PS12W-RPR	PS16W-RPR
PS4W-GRPR	PS6W-GRPR	PS8W-GRPR	PS12W-GRPR	PS16W-GRPR
PS4K-RPR	PS6K-RPR	PS8K-RPR	PS12K-RPR	PS16K-RPR
PS4K-GRPR	PS6K-GRPR	PS8K-GRPR	PS12K-GRPR	PS16K-GRPR
PS4Z-GRPR	PS6Z-GRPR	PS8Z-GRPR	PS12Z-GRPR	PS16Z-GRPR
H2C-PS = Bearing Removal Pneumatic Nipple				

RPR = Kit without grease fitting

GRPR = Repair kit with grease fitting

Seal Options

Nitrile *(standard unless otherwise designated)*

A = Aflas™

K = Perfluoroelastomer (Kalrez™)

W = Ethylene Propylene

Y = Fluorocarbon (Viton™)

Z = Neoprene

S Series Introduction D-29

How To Order S Series Swivels D-30

S Series 90° Swivels D-31–35

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Repair Kits – S Series 90° Swivels D-36

S Series Swivels

Introduction

The S Series Swivel product line complements the Quick Coupling Division's PS Series swivel line by offering a pressure balanced, compact forged body design. As a result of the pressure balanced design, the S Series Swivel does not experience a significant increase in torque as pressure rises. The housing body is forged and case hardened to provide superior performance and durability in tough applications. This product is great for eliminating hose twist, torque and stress caused by the movement of the hydraulic components where side load to the swivel can be minimized.

Features

- 3000 psi working pressure rating for all sizes.
- Variety of seal options.
- Torque value does not significantly increase with pressure.
- Dust seals protect the swivel from damaging environmental contaminents.
- Field service kits are available for quick and reliable repairs.
- 360° swivel eliminates long radius bends, hose twist and stress that can cause premature hose failure.
- One piece forged housing eliminates a brazed 90° adapter connection.
- Case hardened housing for enhanced service life.
- Compact design to fit into tight areas.

Specifications

Body size	1/4"	3/8"	1/2"	3/4"
Maximum Rated Pressure (PSI)	3000	3000	3000	3000
Temperature Range (standard)	(-40° to 250° F)			

Performance Data

S Part Number:

S 21 02 V - 8 - 8 NI

Material and Finish:
Blank = Carbon Steel (12L14) Yellow Chromate Plating
NI = Carbon Steel (12L14) Nickel Plating

Housing Port Size (1/16 of an inch)

Shaft Port Size (1/16 of an inch)

Seal Code:
Blank = Nitrile (Standard)
E = Ethylene Propylene
V = Fluorocarbon (Viton™)

Housing Port Configuration:
01 = Male NPTF
02 = Female NPTF
03 = Male JIC 37 Degree
05 = Male SAE O-Ring Straight Thread
07 = Female NPSM Pipe Swivel
10 = Female SAE Straight Thread

Shaft Port Configuration:
21 = Male NPTF
22 = Female NPTF
23 = Male JIC 37 Degree
25 = Male SAE O-Ring Straight Thread

Parker S Series Swivel designator

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Male Pipe - Male Pipe

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2101-4-4	2.31" 58.7 mm	1.51" 38.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	1/4-18 NPTF	1/4-18 NPTF
S2101-6-6	2.31" 58.7 mm	1.51" 38.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
S2101-8-8	2.74" 69.6 mm	1.84" 46.8 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPTF
S2101-12-12	3.35" 85.1 mm	2.1 2" 53.9 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	3/4-14 NPTF

Male Pipe - Female Pipe

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2102-4-4	2.31" 58.7 mm	1.51" 38.4 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	1/4-18 NPTF	1/4-18 NPTF
S2102-6-6	2.31" 58.7 mm	1.51" 38.4 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
S2102-8-8	2.74" 69.6 mm	1.84" 46.8 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPTF
S2102-12-12	3.35" 85.1 mm	2.12" 53.9 mm	2.39" 60.7 mm	1.50" 38.0 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	3/4-14 NPTF

Male Pipe - 37° Flare

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2103-4-4	2.31" 58.7 mm	1.51" 38.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	1/4-18 NPTF	7/16-20UNF-2A
S2103-6-6	2.31" 58.7 mm	1.51" 38.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18UNF-2A
S2103-8-8	2.74" 69.6 mm	1.84" 46.8 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	3/4-16UNF-2A
S2103-12-12	3.35" 85.1 mm	2.12" 53.9 mm	3.07" 77.9 mm	2.17" 55.2 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	1-1/16-12UN-2A

Male Pipe - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2105-6-6	2.31" 58.7 mm	1.51" 38.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18UNF-2A
S2105-8-8	2.74" 69.6 mm	1.84" 46.8 mm	2.35" 59.7 mm	1.60" 40.6 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	3/4-16UNF-2A
S2105-12-12	3.35" 85.1 mm	2.12" 53.9 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	1-1/16-12UN-2A

Male Pipe - Female 37° Flare

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2107-4-4	2.31" 58.7 mm	1.51" 38.4 mm	2.05" 52.0 mm	1.36" 34.5 mm	.88" 22.2 mm	.69" 17.5 mm	1/4-18 NPTF	1/4-18 NPSM
S2107-6-6	2.31" 58.7 mm	1.51" 38.4 mm	2.07" 52.5 mm	1.38" 35.1 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPSM
S2107-8-8	2.74" 69.6 mm	1.84" 46.8 mm	2.32" 59.0 mm	1.57" 39.9 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPSM
S2107-12-12	3.35" 85.1 mm	2.12" 53.9 mm	2.74" 69.5 mm	1.85" 46.9 mm	1.38" 34.9 mm	1.25" 31.8 mm	3/4-14 NPTF	3/4-14 NPSM

Male Pipe - Female SAE Straight Thread

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2110-6-6	2.31" 58.7 mm	1.51" 38.4 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18UNF-2B
S2110-8-8	2.74" 69.6 mm	1.84" 46.8 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	3/4-16UNF-2B
S2110-12-12	3.35" 85.1 mm	2.12" 53.9 mm	2.54" 64.5 mm	1.65" 41.9 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	1-1/16-12UN-2B

Female Pipe - Male Pipe

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2201-4-4	2.19" 55.6 mm	1.39" 35.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	1/4-18 NPTF	1/4-18 NPTF
S2201-6-6	2.19" 55.6 mm	1.39" 35.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
S2201-8-8	2.47" 62.7 mm	1.57" 40.0 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPTF
S2201-12-12	3.15" 80.0 mm	1.92" 48.8 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	3/4-14 NPTF

Female Pipe - Female Pipe

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2202-4-4	2.19" 55.6 mm	1.39" 35.4 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	1/4-18 NPTF	1/4-18 NPTF
S2202-6-6	2.19" 55.6 mm	1.39" 35.4 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPTF
S2202-8-8	2.47" 62.7 mm	1.57" 40.0 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPTF
S2202-12-12	3.15" 80.0 mm	1.92" 48.8 mm	2.39" 60.7 mm	1.50" 38.0 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	3/4-14 NPTF

Female Pipe - 37° Flare

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2203-4-4	2.19" 55.6 mm	1.39" 35.4 mm	2.19" 55.5 mm	1. 50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	1/4-18 NPTF	7/16-20UNF-2A
S2203-6-6	2.19" 55.6 mm	1.39" 35.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18UNF-2A
S2203-8-8	2.47" 62.7 mm	1.57" 40.0 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	3/4-16UNF-2A
S2203-12-12	3.15" 80.0 mm	1.92" 48.8 mm	3.07" 77.9 mm	2.17" 55.2 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	1-1/16-12UN-2A

Female Pipe - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2205-6-6	2.19" 55.6 mm	1.39" 35.4 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18UNF-2A
S2205-8-8	2.47" 62.7 mm	1.57" 40.0 mm	2.35" 59.7 mm	1.60" 40.6 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	3/4-16UNF-2A
S2205-12-12	3.15" 80.0 mm	1.92" 48.8 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	1-1/16-12UN-2A

Female Pipe - Female 37° Flare

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2207-4-4	2.19" 55.6 mm	1.39" 35.4 mm	2.05" 52.0 mm	1.36" 34.5 mm	.88" 22.2 mm	.69" 17.5 mm	1/4-18 NPTF	1/4-18 NPSM
S2207-6-6	2.19" 55.6 mm	1.39" 35.4 mm	2.07" 52.5 mm	1.38" 35.1 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	3/8-18 NPSM
S2207-8-8	2.47" 62.7 mm	1.57" 40.0 mm	2.32" 59.0 mm	1.57" 39.9 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	1/2-14 NPSM
S2207-12-12	3.15" 80.0 mm	1.92" 48.8 mm	2.74" 69.5 mm	1.85" 46.9 mm	1.38" 34.9 mm	1.25" 31.8 mm	3/4-14 NPTF	3/4-14 NPSM

Female Pipe - Female SAE Straight Thread

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2210-6-6	2.19" 55.6 mm	1.39" 35.4 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	3/8-18 NPTF	9/16-18UNF-2B
S2210-8-8	2.47" 62.7 mm	1.57" 40.0 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	1/2-14 NPTF	3/4-16UNF-2B
S2210-12-12	3.15" 80.0 mm	1.92" 48.8 mm	2.54" 64.5 mm	1.65" 41.9 mm	1.38" 34.9 mm	1.38" 34.9 mm	3/4-14 NPTF	1-1/16-12UN-2B

37° Flare - Male Pipe

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2301-4-4	2.41" 61.2 mm	1.61" 40.9 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	7/16-20UNF-2A	1/4-18 NPTF
S2301-6-6	2.41" 61.2 mm	1.61" 40.9 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	3/8-18 NPTF
S2301-8-8	2.63" 66.8 mm	1.73" 44.0 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	1/2-14 NPTF
S2301-12-12	3.33" 84.6 mm	2.10" 53.4 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	3/4-14 NPTF

37° Flare - Female Pipe

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2302-4-4	2.41" 61.2 mm	1.61" 40.9 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	7/16-20UNF-2A	1/4-18 NPTF
S2302-6-6	2.41" 61.2 mm	1.61" 40.9 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	3/8-18 NPTF
S2302-8-8	2.63" 66.8 mm	1.73" 44.0 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	1/2-14 NPTF
S2302-12-12	3.33" 84.6 mm	2.10" 53.4 mm	2.39" 60.7 mm	1.50" 38.0 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	3/4-14 NPTF

37° Flare - 37° Flare

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2303-4-4	2.41" 61.2 mm	1.61" 40.9 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	7/16-20UNF-2A	7/16-20UNF-2A
S2303-6-6	2.41" 61.2 mm	1.61" 40.9 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	9/16-18UNF-2A
S2303-8-8	2.63" 66.8 mm	1.73" 44.0 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	3/4-16UNF-2A
S2303-10-10	2.63" 66.8 mm	1.73" 44.0 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	7/8-14UNF-2A	7/8-14UNF-2A
S2303-12-12	3.33" 84.6 mm	2.10" 53.4 mm	3.07" 77.9 mm	2.17" 55.2 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	1-1/16-12UN-2A

37° Flare - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2305-6-6	2.41" 61.2 mm	1.61" 40.9 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	9/16-18UNF-2A
S2305-8-8	2.63" 66.8 mm	1.73" 44.0 mm	2.35" 59.7 mm	1.60" 40.6 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	3/4-16UNF-2A
S2305-12-12	3.33" 84.6 mm	2.10" 53.4 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	1-1/16-12UN-2A

37° Flare - Female 37° Flare

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2307-4-4	2.41" 61.2 mm	1.61" 40.9 mm	2.05" 52.0 mm	1.36" 34.5 mm	.88" 22.2 mm	.69" 17.5 mm	7/16-20UNF-2A	1/4-18 NPSM
S2307-6-6	2.41" 61.2 mm	1.61" 40.9 mm	2.07" 52.5 mm	1.38" 35.1 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	3/8-18 NPSM
S2307-8-8	2.63" 66.8 mm	1.73" 44.0 mm	2.32" 59.0 mm	1.57" 39.9 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	1/2-14 NPSM
S2307-12-12	3.33" 84.6 mm	2.10" 53.4 mm	2.74" 69.5 mm	1.85" 46.9 mm	1.38" 34.9 mm	1.25" 31.8 mm	1-1/16-12UN-2A	3/4-14 NPSM

37° Flare - Female SAE Straight Thread

Part number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2310-6-6	2.41" 61.2 mm	1.61" 40.9 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	9/16-18UNF-2B
S2310-8-8	2.63" 66.8 mm	1.73" 44.0 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	3/4-16UNF-2B
S2310-12-12	3.33" 84.6 mm	2.10" 53.4 mm	2.54" 64.5 mm	1.65" 41.9 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	1-1/16-12UN-2B

Male SAE O-Ring Straight Thread - Male Pipe

Part number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2501-6-6	2.13" 54.1 mm	1.33" 33.8 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	3/8-18 NPTF
S2501-8-8	2.40" 61.0 mm	1.50" 38.2 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	1/2-14 NPTF
S2501-12-12	3.40" 86.4 mm	2.17" 55.2 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	3/4-14 NPTF

Male SAE O-Ring Straight Thread - Female Pipe

Part number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2502-6-6	2.13" 54.1 mm	1.33" 33.8 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	3/8-18 NPTF
S2502-8-8	2.40" 61.0 mm	1.50" 38.2 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	1/2-14 NPTF
S2502-12-12	3.40" 86.4 mm	2.17" 55.2 mm	2.39" 60.7 mm	1.50" 38.0 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	3/4-14 NPTF

Male SAE O-Ring Straight Thread - 37° Flare

Part number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2503-6-6	2.13" 54.1 mm	1.33" 33.8 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	9/16-18UNF-2A
S2503-8-8	2.40" 61.0 mm	1.50" 38.2 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	3/4-16UNF-2A
S2503-10-10	2.54" 64.5 mm	1.64" 41.7 mm	2.59" 65.8 mm	1.84" 46.7 mm	1.06" 27.0 mm	1.00" 25.4 mm	7/8-14UNF-2A	7/8-14UNF-2A
S2503-12-12	3.40" 86.4 mm	2.17" 55.2 mm	3.07" 77.9 mm	2.17" 55.2 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	1-1/16-12UN-2A

Male SAE O-Ring Straight Thread - Male SAE O-Ring Straight Thread

Part Number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2505-6-6	2.13" 54.1 mm	1.33" 33.8 mm	2.19" 55.5 mm	1.50" 38.0 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	9/16-18UNF-2A
S2505-8-8	2.40" 61.0 mm	1.50" 38.2 mm	2.35" 59.7 mm	1.60" 40.6 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	3/4-16UNF-2A
S2505-12-12	3.40" 86.4 mm	2.17" 55.2 mm	3.00" 76.2 mm	2.11" 53.5 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	1-1/16-12UN-2A

Male SAE O-Ring Straight Thread - Female 37° Flare

Part number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2507-6-6	2.13" 54.1 mm	1.33" 33.8 mm	2.07" 52.5 mm	1.38" 35.1 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	3/8-18 NPSM
S2507-8-8	2.40" 61.0 mm	1.50" 38.2 mm	2.32" 59.0 mm	1.57" 39.9 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	1/2-14 NPSM
S2507-12-12	3.40" 86.4 mm	2.17" 55.2 mm	2.74" 69.5 mm	1.85" 46.9 mm	1.38" 34.9 mm	1.25" 31.8 mm	1-1/16-12UN-2A	3/4-14 NPSM

Male SAE O-Ring Straight Thread - Female SAE Straight Thread

Part number	A	B	C	D	HEX 1	HEX 2	PORT 1	PORT 2
S2510-6-6	2.13" 54.1 mm	1.33" 33.8 mm	1.78" 45.1 mm	1.09" 27.6 mm	.88" 22.2 mm	.88" 22.2 mm	9/16-18UNF-2A	9/16-18UNF-2B
S2510-8-8	2.40" 61.0 mm	1.50" 38.2 mm	2.10" 53.3 mm	1.35" 34.3 mm	1.06" 27.0 mm	1.00" 25.4 mm	3/4-16UNF-2A	3/4-16UNF-2B
S2510-12-12	3.40" 86.4 mm	2.17" 55.2 mm	2.54" 64.5 mm	1.65" 41.9 mm	1.38" 34.9 mm	1.38" 34.9 mm	1-1/16-12UN-2A	1-1/16-12UN-2B

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Repair Kits/Seal Options

Repair Kits come complete with primary O-Rings, Teflon™/ Polymite™ back-up rings, external and internal dust seals, retaining ring and instruction sheet.

Nitrile Seals		EP Seals		Viton™ Seals	
Size	**Kit Number**	**Size**	**Kit Number**	**Size**	**Kit Number**
-4/-6	RK-4/6N	-4/-6	RK-4/6E	-4/-6	RK-4/6V
-8/-10	RK-8N	-8/-10	RK-8E	-8/-10	RK-8V
-12	RK-12N	-12	RK-12E	-12	RK-12V

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Check Valves

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Multiple Hydraulic System Applications

Parker Check Valves are unidirectional flow control devices used primarily in hydraulic systems to eliminate potential damage caused by fluid back pressure. Offered in nearly 5,000 configurations (5 series), Parker can satisfy almost any hydraulic system application.

Parker's five series of Check Valves include standard in-line style, cartridge style, and split-flange mounting units. They are available in a variety of sizes, pressure ratings, flow capacities and crack pressures.

Note: To obtain further information and to order Check Valve products found in this section of the catalog please contact:

Parker Hannifin Corporation
Quick Coupling Division/ Lincoln Plant
13400 'O' Street
Lincoln, NE 68501-1247
Phone: (402) 489-6536
FAX: (402) 489-7196

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	Body Size	Material Br	SS	S	P	Rated Pressure	Crack Pressure
CF Series	1" - 2"			●		3000 PSI	5-80
CV Series	1/4 - 1"			●		3000 PSI	5-130
DC Series	1/4 - 2"			●		Up to 5000 PSI	5-100
DT Series	3/8 - 1 1/4"			●		5000 PSI	5-85
DK Series	3/8 - 1/2"			●		3000 PSI	5-100

Features

Parker's Check Valves employ several unique features that insure years of trouble-free operation. The double seat, guided poppet, oil retention groove in the poppet, and the poppet-guide cushion combine to offer the finest check valves available. The double seat and cushioned poppet are exclusive to Parker.

The graphic symbol for a check-valve is:

An arrow on the check valve indicates the free flow direction.

Crack Pressure

Crack pressure refers to the amount of fluid pressure in the free flow direction required to move the poppet off the seat. The normal crack pressure setting is 5 PSI; however, other crack pressures are available to allow the check valve to perform special circuit functions, or operate under unique conditions.

Check valves are not field repairable or adjustable. Crack pressure settings are made at the factory only.

TYPICAL HYDRAULIC CIRCUIT. THE CHECK VALVE IS USED TO PROTECT THE PUMP BY PREVENTING PRESSURE FROM RETURNING TO THE OUTLET PORT OF THE PUMP.

Oil cooler bypass circuit. If return line pressure becomes excessive due to resistance through oil cooler (such as startup in cold weather). Check valve opens and allows oil to bypass the cooler and flow to the tank.

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Minneapolis, MN 55427

Parker DT Series Check Valves Offer the Features of a Compact Body Size, and 5000 PSI Maximum Operating Pressure.

The DT Series check valves utilize the dependable, internal design features found in Parker check valves, but with the added benefit and convenience of compact design. Sizes are available from 3/8" to 1-1/4" with six different Fitting Styles.

The DT Series expands Parker's high quality product line of versatile and efficient check valves.

Features:

1. Compact Design. Easy to plumb into tight circuits.
2. All steel construction. No internal gaskets or seals to wear out.
3. One-piece body eliminates threads and seals that may be potential leakage points.
4. Smooth flow stream. Poppet spring is isolated from flow stream.
5. Heat treated poppet to resist damage from shocks and surges.
6. Variety of end fittings.
7. Crack pressure from 5-85 PSI.
8. Zinc Chromate Exterior Finish.
9. Buna-N (Nitrile) O-Ring included on MO and MS fittings.

DT-MFMF
Male Flare Inlet to Male Flare Outlet

DT-MFMO
Male Flare Inlet to Male O-Ring Boss Outlet

DT-MOMF
Male O-Ring Boss Inlet to Male Flare Outlet

DT-MOMS
Male O-Ring Boss Inlet to Male Face Seal Outlet

DT-MSMO
Male Face Seal Inlet to Male O-Ring Boss Outlet

DT-MSMS
Male Face Seal Inlet to Male Face Seal Outlet

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Minneapolis, MN 55427

Specifications

The DT Series check valves have a Maximum Operating Pressure of 5000 PSI. Standard Crack Pressure is 5 PSI. Optional Crack Pressures up to 85 PSI in 5 PSI increments.

FITTING COMBINATION	DIMENSIONS	Valve Sizes				
		370	500	750	1000	1250
MFMF	"A"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"B"	.56	.66	.86	.91	.96
	"C"	.44	.50	.50	.62	1.06
	"D"	.56	.66	.86	.91	.96
	"E"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"F" HEX	.75	.88	1.25	1.50	1.88
MFMO	"A"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"B"	.56	.66	.86	.91	.96
	"C"	.44	.50	.50	.62	1.06
	"D"	.47	.55	.73	.73	.73
	"E"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"F" HEX	.75	.88	1.25	1.50	1.88
MOMF	"A"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"B"	.47	.55	.73	.73	.73
	"C"	.44	.50	.50	.62	1.06
	"D"	.56	.66	.86	.91	.96
	"E"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"F" HEX	.75	.88	1.25	1.50	1.88
MOMS	"A"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"B"	.47	.55	.73	.73	.73
	"C"	.44	.50	.50	.62	1.06
	"D"	.44	.50	.67	.69	.69
	"E"	.688-16UN-2A	.812-16UN-2A	1.188-12UN-2A	1.438-12UN-2A	1.688-12UN-2A
	"F" HEX	.75	.88	1.25	1.50	1.88
MSMO	"A"	.688-16UN-2A	.812-16UN-2A	1.188-12UN-2A	1.438-12UN-2A	1.688-12UN-2A
	"B"	.44	.50	.67	.69	.69
	"C"	.44	.50	.50	.62	1.06
	"D"	.47	.55	.73	.73	.73
	"E"	.562-18UNF-2A	.750-16UNF-2A	1.062-12UN-2A	1.312-12UN-2A	1.625-12UN-2A
	"F" HEX	.75	.88	1.25	1.50	1.88
MSMS	"A"	.688-16UN-2A	.812-16UN-2A	1.188-12UN-2A	1.438-12UN-2A	1.688-12UN-2A
	"B"	.44	.50	.67	.69	.69
	"C"	.44	.50	.50	.62	1.06
	"D"	.44	.50	.67	.69	.69
	"E"	.688-16UN-2A	.812-16UN-2A	1.188-12UN-2A	1.438-12UN-2A	1.688-12UN-2A
	"F" HEX	.75	.88	1.25	1.50	1.88

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Flow Data

Ordering Information

DT Series

D T - ✶ ✶ ✶ - ✶ ✶ ✶ ✶ - ✶ ✶

Standard Crack Pressure is 5 PSI.
Other Crack Pressures up to 85 PSI in 5 PSI increments. Example: 5 = 5 PSI, 10 = 10 PSI

SERIES	SIZE	FITTING	STYLE
	370 - 3/8"	MFMF -	Male Flare Inlet to Male Flare Outlet
	500 - 1/2"	MFMO -	Male Flare Inlet to Male O-Ring Boss Outlet
	750 - 3/4"	MOMF -	Male O-Ring Boss Inlet to Male Flare Outlet
	1000 - 1"	MOMS -	Male O-Ring Boss Inlet to Male Face Seal Outlet
	1250 - 1-1/4"	MSMO -	Male Face Seal Inlet to Male O-Ring Boss Outlet
		MSMS -	Male Face Seal Inlet to Male Face Seal Outlet

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DC Series Check Valves are Rugged, Cost-competitive

The DC Series offers basic, workhorse check valves–ruggedly built, readily available and reasonably priced.

They are in-line valves, available in sizes 1⁄4" to 2", with a pressure rating range of up to 5000 psi, flow capacities to 300 GPM, and a variety of crack pressures.

These check valves are specified by design engineers for use in hydraulic systems and on hydraulic equipment worldwide.

Features:

1. All-steel construction–no internal seals or gaskets to wear out.
2. One-piece body eliminates threads and seals that may be potential failure or leakage points.
3. Valve seats resist damage from shocks, surges and contamination.
4. Poppet has an oil retention groove that lubricates the bore and eliminates galling.
5. Poppet spring is isolated from the liquid flow stream, minimizing turbulence.
6. Poppet is heat treated to help prevent damage from shocks, surges and galling.
7. Close tolerance fit between poppet and poppet retainer creates a cushion that protects valve from surge shock damage.
8. Check valve body is shaped like an arrow to indicate flow direction.
9. Available in a wide variety of crack pressures.

Note: *DC Series valves are also available with O-ring boss ports in sizes from 1/4" to 1".*

Specifications

PART NUMBER	NOMINAL SIZE	THREAD SIZE	A	B	NET WEIGHT	MAXIMUM OPERATING PRESSURE	CRACK PRESSURE RANGE
DC-250-*	1/4"	1/4-18 NPSF	2.44	0.81	.10 KG	5000 PSI	5–85 PSI
DC-250-FOFO-*	1/4"	.438-20 UNF	2.44	0.81	.10 KG	5000 PSI	5–85 PSI
DC-370-*	3/8"	3/8-18 NPSF	2.75	0.88	.13 KG	3000 PSI	5–100 PSI
DC-370-FOFO-*	3/8"	.562-18 UNF	2.75	0.88	.13 KG	3000 PSI	5–100 PSI
DC-500-*	1/2"	1/2-14 NPSF	3.50	1.06	.28 KG	3000 PSI	5–90 PSI
DC-500-FOFO-*	1/2"	.750-16 UNF	3.50	1.06	.28 KG	3000 PSI	5–90 PSI
DC-750-*	3/4"	3/4-14 NPSF	3.88	1.37	.45 KG	3000 PSI	5–90 PSI
DC-750-FOFO-*	3/4"	1.062-12 UN	3.88	1.37	.45 KG	3000 PSI	5–90 PSI
DC-1000-*	1"	1-11.5 NPSF	4.88	1.62	.68 KG	3000 PSI	5–80 PSI
DC-1000-FOFO-*	1"	1.312-12 UN	4.88	1.62	.68 KG	3000 PSI	5–80 PSI
DC-1250-*	1-1/4"	1-1/4 11.5 NPTF	5.94	2.00	1.4 KG	3000 PSI	5–80 PSI
DC-1500-*	1-1/2"	1-1/2-11.5 NPTF	6.37	2.38	2.4 KG	3000 PSI	5–65 PSI
DC-2000-*	2"	2-11.5 NPTF	7.00	2.88	3.7 KG	3000 PSI	5–65 PSI

*Designate crack pressure in 5 psi increments. (Not to exceed maximum crack pressure range.)

Flow Data

D C - ✶ ✶ ✶ - ✶ ✶ ✶ ✶ - ✶ ✶

Standard Crack Pressure is 5 PSI.
Designate in 5 PSI increments.
Not to exceed Crack Pressure Range
for designated size.
Example: 5 = 5 PSI, 10 = 10 PSI.

SERIES	SIZE	FITTING	STYLE
	250 - 1/4"	FPFP -	Female Pipe Inlet to Female Pipe Outlet
	370 - 3/8"	FOFO -	Female O-Ring Boss Inlet to Female O-Ring Boss Outlet
	500 - 1/2"		
	750 - 3/4"		
	1000 - 1"		
	1250 - 1-1/4"		
	1500 - 1-1/2"		
	2000 - 2"		

CV Series check valves offer port thread options for special plumbing requirements

CV Series check valves incorporate the same dependable internal design features as the DC Series, with this addition: CV Series valves offer a wide variety of port thread options to adapt them to special plumbing needs. Port styles can be mixed-or-matched for outstanding versatility.

These check valves are outstanding examples of the valvemaker's art.

Features:

1. Buna-N (Nitrile) O-ring is standard, and is included on MO and MS fittings.
2. Available with variety of thread design options.
3. All-steel construction
4. Valve seats resist damage from shocks, surges and contamination.
5. Poppet has an oil retention groove that lubricates the bore and eliminates galling.
6. Poppet spring is isolated from the liquid flow stream, minimizing turbulence.
7. Poppet is heat treated to help prevent damage from shocks, surges and galling.
8. Close tolerance fit between poppet and poppet retainer creates a cushion that protects valve from surge shock damage.
9. Available in a wide variety of crack pressures.

Specifications

PART NUMBER	NOMINAL SIZE	A	B	MP THREAD SIZE	MF THREAD SIZE	FP THREAD SIZE	FO THREAD SIZE
CV-250-****-*	1/4"	1.53	.68	.250-18 NPTF	.438-20 UNF	.250-18 NPSF	.438-20 UNF
CV-370-****-*	3/8"	1.75	.81	.375-18 NPTF	.562-18 UNF	.375-18 NPSF	.562-18 UNF
CV-500-****-*	1/2"	2.22	1.00	.500-14 NPTF	.750-16 UNF	.500-14 NPSF	.750-16 UNF
CV-750-****-*	3/4"	2.75	1.38	.750-14 NPTF	1.062-12 UN	.750-14 NPSF	1.062-12 UN
CV-1000-****-*	1"	3.31	1.62	1-11.5 NPTF	1.312-12 UN	1-11.5 NPSF	1.312-12 UN

NOMINAL SIZE	MO THREAD SIZE	FB THREAD SIZE	MS THREAD SIZE	NET WEIGHT	MAXIMUM OPERATING PRESSURE	CRACK PRESSURE RANGE
1/4"	.438-20 UNF	G 1/4 BSPF	.562-18 UNF	12 KG	3000 PSI	5–110 PSI
3/8"	.562-18 UNF	G 3/8 BSPF	.688-16 UN	19 KG	3000 PSI	5–100 PSI
1/2"	.750-16 UNF	G 1/2 BSPF	.812-16 UN	35 KG	3000 PSI	5–130 PSI
3/4"	1.062-12 UN	G 3/4 BSPF	1.188-12 UN	59 KG	3000 PSI	5–80 PSI
1"	1.312-12 UN	G 1 BSPF	1.438-12 UN	96 KG	3000 PSI	5–50 PSI

****Designate fitting style (FOFO, MOMS, FPMP, etc.). Note: Fitting configurations can be either the same (FOFO) or mixed (FOFP) to suit various plumbing requirements.
-*Designate crack pressure in 5 PSI increments. (Not to exceed max. crack press. range.)

Flow Data

Ordering Information

CV Series

C V - ✶ ✶ ✶ - ✶ ✶ ✶ ✶ - ✶ ✶

Standard Crack Pressure is 5 PSI.
Designate in 5 PSI increments.
Not to exceed Crack Pressure Range for designated size.
Example: 5 = 5 PSI, 10 = 10 PSI.

SERIES	SIZE	FITTING	STYLE
	250 - 1/4"	MPMP -	Male Pipe Inlet to Male Pipe Outlet
	370 - 3/8"	FOFO -	Female O-Ring Boss Inlet to Female O-Ring Boss Outlet
	500 - 1/2"	MFMF -	Male Flare Inlet to Male Flare Outlet
	750 - 3/4"	MOMO -	Male O-Ring Boss Inlet to Male O-Ring Boss Outlet
	1000 - 1"	FPFP -	Female Pipe Inlet to Female Pipe Outlet
		FBFB -	Female British Pipe Inlet to Female British Pipe Outlet
		MSMS -	Male Face Seal Inlet to Male Face Seal Outlet

DK Series Check Valves are Built for Integral Circuits, Offer Easy Installation and Removal.

DK Series check valves are designed for use in integral circuits where the valve is installed in the housing of another component. Because the valve is easily installed and removed, circuit troubleshooting is greatly simplified.

Design engineers recommend the DK Series for use with integral circuits because they are dependable and efficient.

Features:

1. All steel constuction with a zinc plated exterior– no internal seals or gaskets to wear out.
2. “Drop-in” design eliminates threaded connections.
3. One-piece body eliminates threads and seals that may be potential failure or leakage points.
4. Valve seats resist damage from shocks, surges and contamination.
5. Poppet spring is isolated from the liquid flow stream, minimizing turbulence.
6. Poppet is heat treated to help prevent damage from shocks, surges and galling.
7. Close tolerance fit between poppet and poppet retainer creates a cushion that protects valve from surge shock damage.
8. Available in a wide variety of crack pressures.

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Minneapolis, MN 55427

Specifications

Flow Data

PART NUMBER	NOMINAL SIZE	A DIA.	B	C DIA.	D	E	F DIA.	G	O-RING SIZE	NET WEIGHT	OPERATING PRESSURE	CRACK PRESSURE RANGE
DK-370	3/8"	.655	1.225	.19	.13	.11	.543	.09	015	.03 KG	3,000 PSI	5–85 PSI
		.650	1.215				.538					
DK-500	1/2"	.811	1.500	.30	.13	.11	.699	.09	017	.07 KG	3,000 PSI	5–100 PSI
		.806	1.490				.695					

Ordering Information

DK Series

D K - ✶ ✶ ✶ - ✶ ✶

Standard Crack Pressure is 5 PSI.
Designate in 5 PSI increments.
Not to exceed Crack Pressure Range for designated size.
Example: 5 = 5 PSI, 10 = 10 PSI.

SERIES **SIZE**

370 - 3/8"
500 - 1/2"

CF Series Check Valves are Designed for SAE Split Flange Mount

CF Series check valves combine the internal design of the DC Series valves (see p. 4) with an envelope that conforms to SAE 4-bolt, 3000 PSI mounting dimensions (SAE J518, code 61.)

This series of check valves offers the same efficiency and dependability as the DC Series, and is consistent with the quality and precision attendant to all products in the Parker line.

Features:

1. Poppet and seat are finished to minimize leakage.
2. Mounting conforms precisely to SAE 4-bolt, J518, code 61 split-flange fittings.
3. Valve housing is zinc plated steel construction–no internal seals or gaskets to wear out.
4. Oil-cushioned poppet/retainer design decelerates poppet.
5. One-piece body eliminates threads and seals that may be potential failure or leakage points.
6. Valve seats resist damage from shocks, surges and contamination.
7. Poppet has an oil retention groove that lubricates the bore and eliminates galling.
8. Poppet spring is isolated from the liquid flow stream, minimizing turbulence.
9. Poppet is heat treated to help prevent damage from shocks, surges and galling.
10. Close tolerance fit between poppet and poppet retainer creates a cushion that protects valve from surge shock damage.
11. Available in a wide variety of crack pressures.

TYPICAL INSTALLATION

Specifications

Part Number	Nominal Size	A	B	C	D	Net Weight	Maximum Operating Pressure	Crack Pressure Range
CF–1000–*	1"	3.00	2.25	3.25	0.41	2.5 KG	3000 PSI	5-80 PSI
CF–1250–*	1-1/4"	3.00	2.25	3.25	0.47	2.3 KG	3000 PSI	5-80 PSI
CF–1500–*	1-1/2"	3.00	3.00	4.00	0.53	5.2KG	3000 PSI	5-65 PSI
CF-2000–*	2"	4.00	3.00	4.00	0.53	4.9 KG	3000 PSI	5-65 PSI

*Designate crack pressure in 5 PSI increments. (Not to exceed maximum crack pressure range.),

Flow Data

Ordering Information

CF Series

C F - ✶ ✶ ✶ - ✶ ✶

Standard Crack Pressure is 5 PSI. Designate in 5 PSI increments. Not to exceed Crack Pressure Range for designated size. Example: 5 = 5 PSI, 10 = 10 PSI.

SERIES SIZE

1000 - 1"
1250 - 1-1/4"
1500 - 1-1/2"
2000 - 2"

Note

To obtain further information and to order Check Valve products found in this section of the catalog, please contact:

Parker Hannifin Corporation
Quick Coupling Division / Lincoln Plant
13400 'O' Street
Lincoln, NE 68501-1247
Phone: (402) 489-6536
FAX: (402) 489-7196

Quick Coupling Diagnostic Products

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Increasing productivity and profitability are the key elements for a company to successfully compete in the world market today.

Reduced machine downtime during initial set-up, trouble shooting and maintenance procedures means increased productivity for you. That's why Parker provides the most complete line of hydraulic and pneumatic diagnostic equipment available today.

With Parker diagnostic equipment you can take critical measurements from your system with just a push of a button. Parker diagnostic instruments are designed to identify hard-to detect variations and peaks in pressures, temperatures and flow.

Parker diagnostic quick couplings and nipples allow quick and easy access into hydraulic or pneumatic systems at remote test points without the use of tools.

Diagnostic nipples can be permanently installed in threaded test ports in hydraulic components such as valves, cylinders, accumulators, filters or pumps.

Diagnostic tube ends, used in conjunction with a 37° flare, bite type, or O-ring face seal tube fitting, will allow you to take pressure readings in your systems tubing and hose lines where threaded test ports may not currently be available.

From diagnostic nipples to digital readout and printing equipment, Parker can provide you, from over 600 stocking distributors, the tools necessary to increase your productivity through reduced machine downtime.

Function	Serviceman I	Serviceman II	Senso Control II	Senso Control III
Pressure Sensing	●	●	●	●
Flow Sensing	●1	●1	●1	●1
Temperature Sensing	●1	●1	●2	●2
Rotational Speed Sensing	●1	●1	●	●
Pressure Differential	●	●	●	●
Voltage Measurement (50 V)			●	●
Current Measurement (2A)			●	●
Automatic Sensor Recognition	●	●	●	●
Auto Power Off	●	●	●	●
Battery Monitoring	●	●	●	●
Rechargeable Ni-Cad Battery		●	●	●
9-Volt Alkaline Battery	●			
Thermal Printer Compatible		●		●
Epson/IBM Printer Compatible				●
PC Compatible (Windows)		●1	●	●
Minimum/Maximum Memory	●	●	●	●
Self Contained Memory			●	●
On-Line Data Transfer		●		●
Text Display (Lines)	1	1	2	2
Inputs	2	2	3	3

Notes: (1) Additional accessories are required to perform this function. (2) Transducers provide an ambient temperature signal, but additional temperature probes are required for more accurate temperature measurements.

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Hand-held diagnostic meter to measure pressure, temperature, flow and rotational speed for hydraulic and pneumatic systems

- **Easy operation**
- **Rugged design**
- **Compact dimensions**
- **Large display**
- **Auto sensor recognition**
- **MIN/MAX Memory**
- **Hold function**
- **Pressure differential**
- **Low power consumption**
- **Data output for printer and PC***
- **External power supply***

***SCM-150-1-02 Only**

The Serviceman SCM-150 from Parker is a modern portable diagnostic measuring system and an excellent alternative to conventional mechanical pressure gages.

The SCM-150 is a very rugged and durable test meter that can withstand even the most demanding environmental conditions. It comes with a protective rubber cover and integrated stand making it easy to operate as a hand-held unit or as a desktop display.

Operating the SCM-150 is very simple. Everything is controlled by eight easy to read push buttons. The two sensor inputs allow you to read pressure, temperature, flow and RPM. The automatic sensor recognition circuit properly displays the sensor connected to each of the inputs, eliminating complicated adjustments and calibrations on the meter. The unit also features a memory function that allows you to store both minimum and maximum recorded values. Another very beneficial feature is the “pressure differential” function. This allows you to display the actual pressure drop between two different test points in the hydraulic or pneumatic system.

The Serviceman I is powered by a standard 9-volt lithium battery and the Serviceman II by a rechargeable ni-cad battery system. The Serviceman II unit can also be connected to a 120-volt external power supply for continuous operation. The low power consumption allows these units to be used for extended periods of time independent of an external power supply.

The Serviceman II can also be used with an external thermal printer for documenting important test data or directly interfaced to an Excel spread sheet via the auxiliary computer adapter and Serviceman software. The Parker Serviceman software is compatible with all Windows 3.1 and Windows 95 operating systems.

These Serviceman kits are the ideal diagnostic tools for maintenance and service personnel in the industrial, mobile and agricultural markets. Increasing productivity and profitability are key elements to a company’s success. These units will help reduce downtime by providing the best preventative maintenance and diagnostic data available.

Parker Hannifin provides the most complete line of hydraulic and pneumatic diagnostic equipment available today. For more information or to receive a full demonstration, contact the Quick Coupling Division or your local distributor.

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

SERVICEMAN
Measure And Document Flow, Pressure, Temperature, And Rotation Speed
Cable
SCK–700–00–29
Meter
SCM–150–1–01
Meter
SCM–150–1–02
Meter/Printer
Power Supply
SCSN–345–USA
Meter
Power
Supply
SCSN–351
Printer
SCPR–100–1–01
Fiber Optic
Connector
Cable
SCK–700–00–29
PC
Computer Adapter
Software kit
SCDA–150
Pressure
Transducer
PS****_****
Diagnostic
Nipple
Temperature Sensor
Port M10 x 1
Flow Sensor
Electronics
(Included With
Flow Sensor)
Cable
SCK–102–02–08
M10 x 1
Temperature Sensor
SCT–150–74–08
Flow Sensor PDF***_***
Diagnostic
Coupler
Adapter
SCTA–1/4
M10 x 1
To
1/4 NPTF
Tachometer
SCRPM–210

Technical Data

Meter
- 4 Digit LCD Text Display
- 13 mm Character Height
- Display of Pressure, Temperature, Flow and Rotational Speed
  - Pressure in PSI and Bar
  - Temperature in °F and °C
  - Flow in GPM and l/min.
  - Rotational Speed in RPM
- Automatic Sensor Recognition
- ≤ 2 ms Scanning Rate

Housing
- ABS Plastic Housing
- Protective Rubber Cover
- Carrying Strap
- Integral Stand

Inputs
- Two 4-pin Round plugs
- 0-3 Volts (R=470 kΩ)
- 12 Bit A/D Converter

Ambient Conditions
- Operating Temperatures
32°F to 122°F (0°C to 50°C)
- Storage Temperatures
-4°F to 140°F (-20°C to 60°C)

Output *(SCM-150-1-02 Level II meter only)*
- SC Infrared Interface (RS232C) to transfer measured values to the thermal printer (SCPR-100-1-01) or to a PC. The SCDA-150 software and adapter kit is required for data transfer to a PC.

Power Requirements
- SCM-150-1-01 (Level I)
  - 9 Volt Alkaline Battery Only
  - 20 ma Current Consumption
- SCM-150-1-02 (Level II)
  - 9 Volt Rechargeable Ni-Cad Battery
  - Recharge circuit for use with external power supply.
  - Use part number SCSN-351 for operating the meter only, and part number SCSN-345-USA for operating the meter/printer

Functional description SCM-150

1 **Measurement Display** (4-digit)
2 **RESET** resets minimum and maximum values to zero
3 **ON/OFF Switch**
4 **MAX** displays maximum value since meter was last reset or turned on
5 **INP1/2** selects whether meter will display measurement from Input 1 or Input 2
6 **Δ1-2** displays the differential value of Input 1 minus Input 2
7 **MIN** displays minimum value since meter was last reset or turned on
8 **PRINT*** sends displayed measurements to PC or printer
9 **HOLD** freezes displayed measurement
10 **Analog Inputs** (4 pin)
11 **External Power Supply Socket***
12 **Data Output*** infrared interface to transmit measured values to printer or PC

* SCM-150-1-02 only

Pressure Transducers

- Pressure Ranges
  - **PSTA * * * * -015**
    -14.5 to 220 PSI (-1 to 15 Bar)
  - **PSTA * * * * -100**
    0 to 1450 PSI (0 to 150 Bar)
  - **PSTA * * * -1000**
    0 to 14,500 PSI (0 to 1000 Bar)

Note: Transducer coupler must be specified when being ordered. Maximum pressure rating is based on diagnostic coupling selected.

Construction
- Piezo-Resistive Circuitry
- Stainless Steel Housing
- Stainless Steel Diaphragm
- Viton Seals
- Integrated Cable Assembly

Power Requirement
- 7-12 Volt DC Excitation Voltage
- < 5 ma Current Requirement

Output
- 0-3 Volts DC
- < 1 ms Response Time
- < 0, 5% FS/a Long Term Stability
- < ± .03 FS Temperature Error
- < ± .08 FS Reproducibility

Transducer shown with PD Style Coupler option.

Temperature Probe

SCT-150-74-08

-80°F to 260°F
(25°C to 125°C)

SCM-150 Data Recorder (SCDA-150)

Sample output to SCPR-100 Printer

```
P a r k e r
SensoControl
  SCM-150

I1 = psi
Print Interv:      1sec

I    ACT    MAX    MIN
1   1810   1818   1810
1   1807   1818   1804
1   1815   1821   1807
1   5699   5873   1824
1   1502   6172    606
```

Sample graph using Serviceman (SCDA-150) Data Recorder with Microsoft Excel™

Serviceman 1 Meter Kit (PDS1*)

1 Case SC-500
1 Hand-Held Meter SCM-150-1-01
1 or 2 Pressure Sensors - Customer Selectable *(See Ordering Example)*

** NOTE: (Serviceman 1 meter is not compatible with SCPR-100 printer or the SCDA-150 Computer adapter)*

Serviceman 2 Meter Kit (PDS2)

1 Case SC-500
1 Hand-Held Meter SCM-150-1-02
1 Power Supply SCSN-351
1 or 2 Pressure Sensors - Customer Selectable *(See Ordering Example)*

Serviceman 2 Meter/Printer Kit (PDSP2)

1 Case SC-510
1 Hand-Held Meter SCM-150-1-02
1 Power Supply SCSN-345-USA
1 Printer SCPR-100-1-01
1 Printer Cable SCK-700-00-29
1 or 2 Pressure Sensors - Customer Selectable *(See Ordering Example)*

Order code

Order No.	Description
SCM-150-1-01	Serviceman Level I hand-held meter
SCM-150-1-02	Serviceman Level II hand-held meter
SC-500	Small case for Serviceman Level I or Level II
SC-510	Large case for Serviceman Level II meter printer kit
SCSN-351	120 Volt AC power supply/recharger for Serviceman Level II meter
SCSN-345-USA	120 Volt AC power supply/recharger for Serviceman Level II meter/printer kit
SCK-102-02-08	Connecting cable (4-pin to 5-pin) required to connect flow sensors and PDT transducers to the Serviceman meters (2 meter)
SCK-108-03-18	Extension cable to be used in series with the 4-pin PST transducer assemblies (3 meter)
SCK-519-05-21/A	Connecting cable between 12 VDC automotive accessory plug and the Level II Serviceman (5 meter)
SCPR-100-1-01	Thermal printer to be used with Serviceman Level II meter
SCG-022	Replacement paper for thermal printer SCPR-100-1-01
SCK-700-00-29	Fiber optic cable to transfer data from Serviceman Level II meter to a PC or a thermal printer. (1 meter)
SCDA-150	Computer adapter and software to transfer data from Serviceman Level II to a PC (Required in addition to SCK-700-00-29)
SCRPM-210	Tachometer to be used to measure rotational speed (0 to 10,000 RPM)
SCRPMA-001	Contact adapter for SCRPM-210 tachometer
SCRPMA-002	Focus adapter for SCRPM-210 tachometer
SCTA-150-74-08	Temperature sensor to be used with the PDF*** flow sensors or with the SCTA-1/4 port adapter -80°F to 260°F (-25°C to 125°C)
SCTA-1/4	Port adapter to convert M10 X 1 to 1/4" NPT for use with the SCTA-150-74-08
PD288	PD transducer adapter for PST style transducers
PDP288	PDP transducer adapter for PST style transducers
SCA-1/2-EMA-3	EMA3 female transducer adapter for PST style transducers
PDH- 19	Diagnostic test hose assembly (19" extension hose assembly to be used with PD transducers and diagnostic nipples)

Ordering Examples

For Test Meter and/or Meter/Printer Kit

P D S P 2 — 5 0 0 — 0 5 — 1 0

- **P D S P 2**: PDS1 =Serviceman 1 - Meter Only; PDS2 =Serviceman 2 - Meter Only; PDSP2 =Serviceman 2 - Meter (With SCPR-100 Printer)
- **5 0 0** (Transducer Coupler):
  - **200** -PD Style (Meter Kit)
  - **300** -PD Style (Meter/Printer Kit)*
  - **400** -PDP Style (Meter Kit)
  - **500** -PDP Style (Meter/Printer Kit)*
  - **600** -EMA Style (Meter Kit)
  - **700** -EMA Style (Meter/Printer Kit)*
- **0 5** (Transducer #1 Range) / **1 0** (Transducer #2 Range):

I.D.#	Pressure Range (PSI)		
01	-14.5	–	220
05	0	–	1450
10	1	–	14,500

*These Meter/Printer kits all contain the SCPR-100 style printer.

For Transducer Assembly Only

PSTA — 015

- **PSTA** (PD Style Couplers): PD Style Couplers
  - **PSTA** (PD Style Couplers)
  - **PSPTA** (PDP Style Couplers)
  - **PSEMA3TA** (EMA Series Female)
- **015**: Low Pressure Transducer

Pressure Range PSI		
015	Low Pressure	-14.5 – +220
100	Medium Pressure	0 – +1,450
1000	High Pressure	0 – +14,500

For Flow Sensors

P D F ✻ ✻ ✻ — 0 4 8 0

- **P D F ✻ ✻ ✻**:
  - **PD –** PD Style Nipple
  - **PDP –** PDP Style Nipple
  - **EMA –** EMA Style Nipple
- **0 4 8 0**:

0004	.25 – 4 GPM	1.0 – 15 L/min
0216	2 – 16GPM	7.5 – 60 L/min
0480	4 – 80 GPM	15 – 300 L/min
7160	7 – 160 GPM	25 – 600 L/min

NOTE: See Bulletin # 3800-PDF for more information on the Parker SensoControl Flow Sensors.

Features

- **Rugged design**
- **Easy Operation**
- **2-line text display**
- **Analog output**
- **Battery monitoring**
- **Auto Power Off**
- **On-line Operation**
- **Printer connection**
- **MIN/MAX value memory**
- **3 inputs with sensor recognition**
- **Connection of external memory**
- **Data evaluation under Windows®**
- **Dynamic measured value recording**

General Description

The SensoControl hand-held measuring device **SCM-300** is a service and diagnostic device to record pressure, temperature, flow, current and voltage.

The system is packed with features, yet is easy to operate and rugged. The housing is resistant to most fluids.

An LCD display shows the measured values with units in an easy-to-read form. 3 parameters can be recorded simultaneously.

Consistent operation is guaranteed through a constant monitoring of the battery level. The current battery level is shown after the device has been switched on.

Saving measured values

The handmeter has a memory to record up to 5 separate sets of measurement data. Independent setting of the recording parameters is possible for each data set, optimizing the memory area used, with dynamic storage commitment (DSR). The display shows the current memory status. Stored data is retained even when the unit is switched off. Longer term measurements are as easy to record as the fast changes that are experienced in modern hydraulic systems. Date, time and set parameters are automatically stored with recorded data for documentation and later identification of the measurements.

Output of measured data

The SCM-300 offers a variety of output possibilities.
A mini thermal-printer can be directly connected to the hand-held measuring device for local documentation and evaluation of curves. The printout is all 3-channels and includes all set parameters for the measurement.

A memory-card can be used as an external memory if large data sets have to be recorded.

Parker offers software which runs under Windows® for presentation, evaluation and editing on a PC*. This opens up new possibilities in hydraulic measurement engineering. The fast and economical documentation and verification of data is possible under a variety of conditions and locations.

** PC not included in Senso offering.*

SensoControl SCM-300
Measure and Document Flow, Pressure, Voltage, Current
Temperature and Rotation Speed

Meter

Display

- Digital LCD Text Display
- 5 mm Character Height
- Display of Pressure, Temperature, Flow and Rotational Speed
  - Pressure in PSI and Bar
  - Temperature in °F and°C
  - Flow in GPM and l/min.
  - Rotational Speed in RPM
  - Voltage (0-50V AC/DC)
  - Current (0-2A AC/DC)

Accuracy

- Banana Socket V/COM
  +/- 1% FS VDC
  +/- 2% FS VAC
- Banana Socket A/COM
  +/- 1% FS ADC
  +/- 2% FS AAC
- Banana Socket Analog Out/COM
  +/- 0.75% FS

Functions

- Differential Value Measurement
- MIN/MAX Memory
- Online data transfer (Level 3 only)
- Battery level indicator
- Adjustable units of measurement

Output

- 4-pin Lemosa connection
- Interface for connection to PC
- Interface connection for the SensoControl thermal printer or an Epson FX80 or IBM-Proprinter

Inputs

- Three 5-pin Lemosa connections
- Automatic Sensor Recognition
- 0-3 Volts (R=470 kΩ)
- 12 Bit A/D Converter
- <1 ms Scanning Rate

Power Requirements

- Internal 7.2-volt rechargeable Ni-Cad battery
- Recharge circuitry for use with external power supply.
- Operating time (Aprox. 5 hours)

Memory Functions

- 15,000 measured data points
- Memory can be segmented into five separate storage areas
- Variable measuring times: 1s, 3s, 10s, 30s, 100s, 1000s, 1h, 3h, 10h, 15h, 30h, 60h, 100h
- Manual and automatic triggering

Ambient Conditions

- Operating Temperatures
  32(F to 122°F (0°C to 50°C)
- Storage Temperatures
  -4(F to 140°F (-20°C to 60°C)

Housing

- Polycarbanate/polyester Housing
- Integral Stand

Thermal Printer

(SCPR-100-1-01)

- Mini thermal printer
- Variable print interval
- Print Status Report
- Graphical Output
  - Min/Max Values
  - Average Values
- Numerical Output (Level 3 only)

General Information

Dimensions

- Length/Width/Height
  - 8.9"x3.9"x2.1" (227x100x53 mm)

Weight

- 1.32 lbs. (700 grams)

SCM-300-Description (functions)

Storing the curves

The meter has variable memory areas to hold up to 5 independent measurements. The memory area (MEM NUMBER) and the status (MEM STATUS) are permanently displayed. Memory use is dynamic, i.e. by specifying the memory size the instrument will automatically establish the quantity of measured data to be stored. By advancing the memory area in conjunction with automatic triggering, several defined events can be measured and stored without external intervention. The SCM-300 supplements the measured curves with the setting parameters, as well as the date and time for unambiguous assignment of the data after they have been transmitted to the PC.

1 **ON/OFF KEY**

2 The main functions are adjusted with the **ROTARY SELECTOR**:
–Selection of connected inputs
–Display of minimum and maximum values
–Differential measurement of Input 1 – Input 2
–Selection of special measuring programs
–Adjustment of units, analog output, interface, time, language and SETUP
–Selection of memory parameter and data transfer under MEMORY
–Voltage measurement/Current measurement

3,4 The **ARROW KEYS** enable you to "page" through the main functions.

5 The **ENTER KEY** has a double function: The selected menu points in the given main functions are adjusted, and the recorded curves are transferred to the instrument in memory mode.

6 The **RESET KEY** erases the MIN/MAX values and the recorded data for one memory area.

7 Press the **TEMP KEY** to display the temperature signal of a pressure and temperature sensor.

8 The **COM** socket is the common reference point for the analog output, voltage and current measurement.

9 **ANALOG OUTPUT** to register the hyudraulic parameters. The given input can be selected in the SETUP menu (Input 1…3).

10 **VOLTAGE MEASURING INPUT** for max. 50 V.

11 **CURRENT MEASURING INPUT** for max. 2 A.

12 3 sensors from the SensoControl program can be simultaneously connected to the SENSOR INPUTS.They are automatically recognized by the instrument (sensor recognition).

13 **DATA OUTPUT** for connection to a PC Level 2 or connection to the SCPR-100 Printer or other optional printers - Level 3

14 **LOW VOLTAGE SOCKET** for external power supply and battery charging.

15 The MULTIFUNCTION DISPLAY presents all selected functions in plain text. The memory area (MEM NUMBER) and the status (MEM STATUS) of the measured value memory are likewise shown by the display.

Features

- **Four measurement ranges: Vacuum to 8,700 PSI**
- **Color-coded for easy identification**
- **Automatic sensor recognition**
- **Corrosion-proof, stainless steel housing**
- **Low current requirement**

General Description

This model of the piezo-resistive pressure and temperature transducer was developed specifically for connection to the hand-held test meter and the graphic printer. It is a field-proven sensor used in a variety of applications, including mobile equipment and manufacturing. Its design ensures reliability and the greatest possible ease of operation.

This pressure/temperature transducer has a built-in measuring range identification. When used with the SensoControl test meter, the correct measuring range is automatically identified and the measurement is displayed in 4-1/2 digits.

The sensor comes attached to a Parker Diagnostic Quick Coupler (PD, PDP or EMA3 Series.) Diagnostic quick couplings provide easy and fast connection at threaded test ports, in rigid tubing, or in hose assemblies.

Transducers attached to PDP couplers may be connected under pressures of up to 6,000 psi (operating).

Materials of Construction
Material:
Transducer ..... Stainless steel
Diaphragm ..... Stainless steel
Coupler ..... Steel housing
Seal ..... Viton
Weight ..... Approx. .28 lb.

Environmental Conditions
Temperature Range:
Working ..... –4° to 185°F
Fluid ..... –13° to 221°F
Storage ..... -40° to 257°F
Temperature-compensated range
..... 32° to 185°F

Output
Load ..... <2 m ohms
(for use without hand-held test instrument)
Temperature compensation:
Zero point ..... ±0.012% FS/C
Sensitivity ..... ±0.02% FS/C
Temperature output ..... –50° to +150°C
..... = –.5 to +1.5 V
Response time ..... <1 ms
Output signal noise ..... <0.1% FS
Resonance frequency ..... Approx. 100 kHz

Voltage Supply
Auxiliary power ..... 7 to 12 V DC
(for use without hand-held test meter)
Permissible residual ripple ..... ±2% ss
Current requirement ..... <5 mA

Electrical Connection
Plug connector
Lemosa-type, Series S, Size 1, 5-pin, degree of protection IP 54

Recommended max cable length
16 ft. (Longer cable length may affect accuracy)

Technical Data for Gasses and Liquids

PDTA-, PDPTA-, PDTEMA-3, PDTEMA-3-S*	Blue 0100	Green 0600	Yellow 1500	Red 6000
Pressure range (psi)	–14.5 to 145	0 to 870	0 to 2175	0 to 8700
Temperature measuring range (F)	–13° to 221°	–13° to 221°	–13° to 221°	–13° to 221°
Overload pressure (psi) max.	290	1450	3625	14,500
Output signal (V)	–0.2 to +2	0 to 3	0 to 3	0 to 3
Linearity error (% of full-scale value)	0.3	0.2	0.2	0.35**
Reproductibility (% of full-scale value)	0.2	0.25	0.25	0.2**
Characteristic curve deviation (% of full scale value)	0.75	0.75	0.75	0.75**

Tolerance band adjustment

PDTA – prefix indicates a PD296 coupler attached.

***** PDPTA – prefix indicates a PDP296 connect-under-pressure coupler attached.

PDTEMA-3 - prefix indicates a SCA-EMA-3 female screw to connect under pressure coupler attached.

PDTEMA-3-S - prefix indicates a SCA-EMA-3-S male screw to connect under pressure coupler attached.

****** valid in 0 to 5,800 PSI range.

Cable End

Pin	Mark	Wire colors
1	P	yellow
2	T	white
3	+	brown
4	–	green
5	SK	grey
Shielding on plug housing		

Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427

Note: The above graph was generated by the SCPR-100 Thermal Printer, and the graph below is a printed file from our SensoWin Windows program. Both graphs contain curves of pressure, temperature, and flow.

Filename: C:\SENSOWIN\MEASURE\DEMO3.SCM

Data : 26.9.94 Time : 13:55 MemRange : 100% PreTrigger : 10%

Triggermode : Man Triggerlevel : 25% Triggertype : High Measureing time : 100 s

Curve Info No 1 : Test data for pressure, 0-300 bar.

Unit : bar

Curve Info No 2 : Test data for flow, 0-60 l/min.

Unit : l/min.

Curve Info No 2 : Test data for temperature, 0-60 degrees.

Unit : °C

Level 2 PDSW2 Style Meter Kit

(3 Channel Inputs, Direct PC Compatibility)

1 Case SC-790

1 Hand-held Meter SCM-300-1-01

2 Pressure/Temperature Sensors,
(Customer Selectable–**See Ordering Example**)

2 Cables SCK-102-02-02

1 Power Supply SCSN-340

1 Computer Interface Cable SCK-313-02-31
(9 Pin Plug With 25 Pin Adapter)

1 SensoWin Software SCSW-100-2

1 Instruction Sheet SCM-300

Level 3 PDSW3 Style Meter Kit

(3 Channel Inputs, Direct PC Compatibility,
Optional Printers, & Memory Card Compatible)

1 Hand-held Meter SCM-300-1-02

2 Pressure/Temperature Sensors,
(Customer Selectable–**See Ordering Example**)

2 Cables SCK-102-02-02

1 Power Supply SCSN-340-USA

1 Computer Interface Cable SCK-313-02-31
(9 Pin Plug With 25 Pin Adapter)

1 SensoWin Software SCSW-100-2

1 Instruction Sheet SCM-300

Level 3 PDSPW3 Style Meter/Printer Kit

1 AC Converter/ SCSN-340-USA (rechargeable)

2 Pressure/Temperature Sensors
(Customer Selectable–**See Ordering Example**)

2 Cable SCK-102-02-02 (6.5 ft., 5 PIN x 5 PIN)

1 Printer Cable SCK-313-02-29
(D-SUB plug, 25 pin/Lemosa, size 0)

1 (SCPR-100-1-01) Printer

1 Case SC-790

1 Hand-Held Test Meter

1 Instruction Sheet SCM-200

1 Instruction Sheet SCGP-300

Order Code

Order No.	Accessories	
SC-790	SensoControl Case	
SCSN-340-USA		SCM, SCPR and SCG-120 supply
SCK-112-4-51	Connecting lead for external power supply from motor-vehicle socket or cigarette lighter	
SCK-519-02-19	Connecting lead to power supply	
SCPR-100-1-01	Printer SCPR	Mini thermal-printer
SCK-313-02-29	Printer cable, SCM-SCPR	D-SUB plug, 25-pin/Lemosa, size 0
SCG-011	Printer Ribbon	
SCG-022	Thermal Paper	
SCDA-100	Converter SCDA	Serial to parallel converter for standard printer
SCSW-100-2	Software SensoWin	Analysis of measured values
SCK-313-02-31	Data cable, SCM-PC, 2 m long	9-pin plug (with 25-pin adapter)
SCK-313-02-32	Data cable, SCM-SCMC	8-pin mini-DIN/Lemosa, size 0
SCK-331-02-32	Data cable, PC-SCMC	8-pin mini-DIN/9-pin D-SUB (with 25-pin adapter)
SCRPM-200	Tachometer	
SCK-102-02-02	Sensor cable, 2 m	Connection handmeter to sensor
SCK-102-05-02	Sensor cable, 5 m	Connection handmeter to sensor
SCK-102-03-12	Extension cable, 3 m	Sensor/handmeter
SCK-519-05-21	Car-cable, 5 m	Car-SCM power cable
SCG-100	Timer	
SC-901	Transducer Seal (viton)	
SCA-1/4NPTF	1/4' NPTF Adapter with baffle plate	
51002001	Screw Driver	
52210095	Voltage Cable	
SCMA-210-0-02	Current-/Voltage measuring adapter	
SCG-120	NICD battery 9,6V 1,2 Ah	External power supply for SCM/SCPR

Ordering Examples

For Transducer Assembly Only

PDTA – 0100

PD Style Couplers

Low Pressure Transducer

PDTA-
(PD Style Couplers)

PDPTA-
(PDP Style Couplers)

PDTEMA-3-
(EMA Series Female)

PDTEMA-3-S-
(EMA Series Male)

Pressure Range PSI			
-14.5 - +145 **(Blue)**	0 - +870 **(Green)**	0 - +2175 **(Yellow)**	0 - +8700 **(Red)**
0100	0600	1500	6000
0100	0600	1500	6000
0100	0600	1500	6000
0100	0600	1500	6000

For Test Meter and/or Meter/Printer Kit

P D S P W 3 – 200 – 01 – 60

Transducer Coupler

Transducer #1 Range

Transducer #2 Range

Kit Type
PDS = Level 1 - Meter Only
PDSW2 = Level 2 - Meter Only
PDSW3 = Level 3 - Meter Only
PDSPW3 = Level 3 - Meter (With SCPR-100 Printer)

200 -PD Style (Meter Kit)
300 -PD Style (Meter/Printer Kit)*
400 -PDP Style (Meter Kit)
500 -PDP Style (Meter/Printer Kit)*
600 -PDEMA-3 (FEMALE) (Meter Kit)
700 -PDEMA-3 (FEMALE) (Meter/Printer Kit)*
800 -PDEMA-3-S (MALE) (Meter Kit)
900 -PDEMA-3-S (MALE) (Meter/Printer Kit)*

I.D.#	Pressure Range (PSI)
01	-14.5 - +145
06	0 - 870
15	0 - 2175
60	0 - 8700

*These Meter/Printer kits all contain the SCPR-100 thermal printer

Description

The SensoControl Generation II flow sensors are a compact light-weight aluminum diagnostic tool capable of measuring pressure, temperature and flow from a single test point in a hydraulic system.

The Generation II flow sensors are designed to be used with a wide variety of hydraulic fluids. This design also minimizes the effect of viscosity changes. These units are manufactured from solid aluminum bar stock and are rated to 5800 PSI* and temperatures of 0°F +350°F. They are available in four sizes with flow measuring ranges from .25 – 160 GPM.

Generation II flow sensors are provided with a choice of PD, PDP or EMA style diagnostic ports and are designed to be used with all SensoControl and Serviceman equipment.

Technical Data

Pressure Rating ..... 5800 PSI
** PDF***– 7160 is rated to 5000 psi*

Fluid Temperature Range ..... 0°F to +350°F

Ambient Temperature Range ..... 0°F to +120°F

Media/Compatibility ..... Petroleum Based Fluids
(Contact factory for use with water based hydraulic fluids)

Flow Measurement Accuracy ..... ±2.0% of Actual Reading

Voltage Input ..... +7 to 12 VDC
(Supplied by SensoControl meter)

Current Requirement 6mA

Material Specifications

Flow Block ..... 2024-T351 Anodized Aluminum

Turbine ..... 416 Stainless Steel

Bearings ..... Stainless Steel

Seal Material ..... Nitrile

Electrical Connection ..... 5 Pin Lemosa

Performance

Temperature Sensor

(Serviceman)
SCT-150-74-08

Cables

5 Pin – 5 Pin
Flow Sensor to
SensoControl Cable
SCK-102-02-02

5 Pin – 4 Pin
Flow Sensor to
Serviceman Cable
SCK-102-02-08

Measuring Range	Flow Sensor with PD Nipple	Flow Sensor with PDP Nipple	Flow Sensor with EMA Nipple	Inlet/Outlet Port Configuration	Length inches	Height inches	Width inches
.25 GPM to 4 GPM (1.0 to 15 l/min)	PDFPD-0004	PDFPDP-0004	PDFEMA-0004	3/4-16 ORB	4.72	3.72	1.23
2 GPM to 16 GPM (7.5 to 60 l/min)	PDFPD-0216	PDFPDP-0216	PDFEMA-0216	1 1/16-12 ORB	5.08	4.05	1.48
4 GPM to 80 GPM (15.0 to 300 l/min)	PDFPD-0480	PDFPDP-0480	PDFEMA-0480	1 5/16-12 ORB	5.87	4.46	1.98
7 GPM to 160 GPM (25.0 to 600 l/min)	PDFPD-7160	PDFPDP-7160	PDFEMA-7160	1 5/8-12 ORB	6.81	4.75	2.46

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Accessory Temperature Probes

Parker offers a variety of accessory probes for high-accuracy temperature measurements using the SensoControl® hand-held test meter:

K- Type Thermocouple

(Only compatible with Level 1 Meter)

PDTM-0001 Module:
(available only with Bead Probe PDTP-0005)

(Converts microvolt output from "K" type thermocouple probe into 1 millivolt per degree signal.)

- **Measurement Range:**
  –50°C to 1000°C (–58°F to 1832°F)
- **Ambient Operating Range:**
  –0°C to 50°C (32°F to 122°F)
- **Accuracy:**
  –58°F to –5.8°F 2.5% ±3.6°F
  –50°C to –21°C 2.5% ±2°C
  –20°C to 350°C 0.5% ±2°C
  –4°F to 662°F 0.5% ±3.6°F
  351°C to 500°C 1.75% ±2°C
  665°F to 932°F 1.75% ±3.6°F
  501°C to 1000°C 2.0% ±2°C
  933°F to 1832°F 2.0% ±3.6°F
- **PDTP-0003 Immersion Probe**
  Measurement Range:
  0°C to 927°C (32°F to 1700°F).
- **PDTP-0004 Surface Probe**
  Measurement Range:
  0°C to 260°C (32°F to 500°F).
- **PDTP-0005 Bead Probe**
  Measurement Range:
  0°C to 260°C (32°F to 500°F)
  Useable to -40°C (-40°F)
- **K-Type Immersion Probe PDTP-0003:**
  for liquids and gels
- **Surface Probe PDTP-0004:**
  for flat or slightly convex surfaces
- **Bead Probe PDTP-0005:**
  for general purpose applications
- **Thermocouple Module PDTM-0001:**
  for connecting K-type Thermocouple probes to the SensoControl® hand-held test meter.

RTD Thermocouple

(Compatible with Level 1, 2, or 3 Meters)

- **RTD Immersion Probe SCTA-300-3-20:**
  for accurate, non-invasive measurements
- **RTD Imersion Probe SCT-200-0-02:**
  for liquids and gels
- **RTD Module SCTA-200:**
  for connecting RTD probes to the SensoControl® hand-held test meter.
- **RTD**
  SCT-200-0-02 Immersion Probe with SCTA-200 Module
  SCT-300-3-20 Non-invasion Immersion Probe
  Temperature Output: –0.54V to ±2.5V
  Measurement Range: –58° to 484°F
  SCTA-200 Module with Cable (SCK-313-02-13)
  SCTA-M10X1 Thermal Well Fitting, M10 metric
  SCTA-R1/4 Thermal Well Fitting, 1/4" pipe

Features

- Flush-face poppet valves minimize air inclusion and spillage, provide easy-to-clean surfaces, and help to prevent contamination.
- Grip-tight knurled sleeves help to make connecting and disconnecting easy, even while wearing gloves.
- Nipples are machined from high tensile steel for strength to withstand 6000 PSI continuous operating pressure. BPD nipples offer features similar to the standard steel PD nipples with the added feature of a brass body. PD nipples are designed to meet or exceed SAE J1502 design and performance specifications.
- End connections include pipe, O-ring, metric thread, bulkhead and tube fittings.

Applications

PD or PDP Series couplings provide easy connection for mechanical gauges or specialized diagnostic equipment like SensoControl®.

Typically, PD, PDP or BPD nipples are permanently mounted in the system at threaded test ports, in rigid tubing or in hose assemblies. PD or PDP couplers are attached to test instruments.

Locking balls align the couplers to the mating nipples without threading, so gauges, transducers and other test equipment can be snapped into place without difficulty.

Parker's PDP Series couplings offer the advantages of PD couplings, but are designed to connect easily and quickly under full system pressure up to 6,000 PSI (operating).

PDP couplers and nipples push-to-connect with a constant force of only six pounds. Then the coupler base is turned to open the valve and complete the connection. In the connected position, the coupler base blocks the retracting sleeve to prevent accidental disconnects.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Specifications	**1/8 Body Size**						
Description	PD Coupler	PD Nipple	BPD Nipple	Assembly	PDP Coupler	PDP Nipple	Assembly
Part Number	PD242	PD361	BPD343Y	—	PDP242	PDP343	—
Body Material (Steel)	Carbon Steel	High Tensile Steel	Brass	—	Carbon Steel	High Tensile Steel	—
Rated Pressure (PSI)	6000	6000	300	6000	—	6000	6000
Temperature Range (STD Seals) Nitrile	-40°F to +250°F		-15°F to +400°F (Viton)	-40°F to +250°F			
Rated Flow (GPM)	—	—	—	0.8	—	—	—
Max. Recommended Flow (GPM)	—	—	—	4.0	—	—	—
Burst Pressure (PSI/Min)	20,000	40,000	—	17,000	—	50,000	40,000
Vacuum Data (Inches Hg)	27.5	27.5	27.5	27.5	—	—	—
Pressure Drop at Rated Flow (PSI) with 200 SUS Fluid	—	—	—	56	—	—	—
Spillage at 15 PSI (ml)-Assembly	0.1 per disconnect				—	—	—
Air Inclusion (ml)-Assembly	0.02 per disconnect				—	—	—
Connect Force-Assembly	41 Lbs. (100 PSI)				6 Lbs (0 PSI - 6000 PSI)		
Disconnect Force-Assembly	20 Lbs. (100 PSI)				7 Lbs (0 PSI - 6000 PSI)		

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Couplers

Female Thread

Body Size (in.)	Part No.	Female Thread NPTF	Female Thread ORB	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
1/8	PD222	1/8-27	–	1.67	0.81	0.96	0.20
1/8	PD240	–	7/16-20	2.12	0.81	0.96	0.26
1/8	PD242	1/4-18	–	2.12	0.81	0.96	0.25
1/8	SSPD242Y***	1/4-18	–	2.12	0.81	0.96	0.25
1/8	PD260	–	9/16-18	2.12	0.81	0.96	0.24

Male Thread

Body Size (in.)	Part No.	Male Thread ORB	Male Thread NPTF	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
1/8	PD243	–	1/4-18	2.26	0.81	0.96	0.23

Nipples*

Female Thread

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PD322	1/8-27	1.48	0.78	0.56	0.65	0.06
1/8	PD342	1/4-18	1.63	0.93	0.75	0.87	0.12

Male Thread

Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PD323	1/8-27	1.55	0.85	0.69	0.79	0.17
1/8	BPD323Y**	1/8-27	1.44	0.74	0.63	0.72	0.17
1/8	BPD343Y**	1/4-18	1.48	0.78	0.69	0.79	0.06
1/8	PD343	1/4-18	1.48	0.78	0.69	0.79	0.06
1/8	SSPD343Y***	1/4-18	1.48	0.78	0.69	0.79	0.06
1/8	PD363	3/8-18	1.50	1.13	0.81	0.96	0.09

Metric Thread

Body Size (in.s)	Part No.	Thread Size Metric	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PD357	M10 x 1.0	1.80	1.10	0.69	0.79	0.17
1/8	PD367A	M14 x 1.5	1.38	0.68	0.75	0.87	0.07
1/8	PD3147	M20 x 1.5	1.50	0.80	0.75	0.87	0.07

Straight Thread

Body Size (in.)	Part No.	Thread Size ORB	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PD331	3/8-24	1.80	1.10	0.69	0.79	0.17
1/8	PD341	7/16-20	1.60	0.90	0.69	0.79	0.08
1/8	PD351	1/2-20	1.32	0.62	0.63	0.72	0.05
1/8	PD361	9/16-18	1.32	0.62	0.69	0.79	0.06

*Add -6 to part number to include dust cap.
**BPD designates brass body, Viton seal standard
***SSPD designates 316SS body, Viton seal standard

Nipples*

Bulkhead Triple-Lok

Body Size (in.)	Part No. Steel	Thread Size	Tube Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/8	PD345	7/16-20	1/4	2.92	2.22	0.81	0.94	0.19
1/8	PD355	1/2-20	5/16	2.92	2.22	0.81	0.94	0.19
1/8	PD365	9/16-18	3/8	3.00	2.30	0.81	0.94	0.20

*Add -6 to part number to include dust cap. (Contact factory for seal options)

Bulkhead Seal-Lok

Body Size (in.)	Part No. Steel	Thread Size	Tube Size	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/8	PD346	9/16-18	1/4	2.98	2.27	0.81	0.94	–
1/8	PD366	11/16-16	3/8	3.08	2.37	1.00	1.16	–
1/8	PD386	13/16-16	1/2	3.18	2.47	1.12	1.30	–

*Add -6 to part number to include dust cap. (Contact factory for seal options)

Tube End Nipples***

Triple-Lok
PD — — BTX

Body Size (in.)	Part No. Steel	Tube Size	Dimensions (in.) Overall Length	Exposed Length	Wt. (LB.) P/Piece
			A	B	
1/8	PD34BTX	1/4	1.64	0.94	0.10
1/8	PD36BTX	3/8	1.66	0.96	0.09
			A	B	
1/8	PD38BTX	1/2	1.17	0.47	0.12
1/8	PD312BTX	3/4	1.39	0.69	0.27

*** Tube end nipples are designed to meet the performance standards of the tube or hose fitting connection, which may or may not meet SAE J1502 Standards.

Ferulok
PD — — BTU

Body Size (in.)	Part No. Steel	Tube Size	Dimensions (in.) Overall Length	Exposed Length	Wt. (LB.) P/Piece
			A	B	
1/8	PD38BTU	1/2	1.40	0.70	–

*** Tube end nipples are designed to meet the performance standards of the tube or hose fitting connection, which may or may not meet SAE J1502 Standards.

Seal-Lok
PD — — BTL

Body Size (in.)	Part No. Steel	Tube Size	Dimensions (in.) Overall Length	Exposed Length	Wt. (LB.) P/Piece
			A	B	
1/8	PD34BTL	1/4	2.18	1.48	0.12
1/8	PD36BTL	3/8	2.30	1.60	0.14
			A	B	
1/8	PD38BTL	1/2	1.12	0.42	0.13
1/8	PD310BTL	5/8	1.16	0.46	0.19

*** Tube end nipples are designed to meet the performance standards of the tube or hose fitting connection, which may or may not meet SAE J1502 Standards.

Features

- Made to connect under pressure up to 6000 psi
- Grip-tight knurled sleeves help to make connecting and disconnecting easy, even while wearing gloves.
- Nipples are machined from high tensile steel for strength to withstand 6000 PSI continuous operating pressure.
- End connections include pipe, O-ring, metric thread, bulkhead and tube fittings.
- Durable Ball Valve Nipple.
- Coupler is unvalved to allow guages and transducers to return to zero when disconnected.

Applications

The PDP Series couplings provide easy connection for mechanical gauges or specialized diagnostic equipment like SensoControl.

Typically, PDP nipples are permanently mounted in the system at threaded test ports, in rigid tubing or in hose assemblies. PDP couplers are attached to test instruments.

Locking balls align the couplers to the mating nipples without threading, so gauges, transducers and other test equipment can be snapped into place without difficulty.

Parker's PDP Series couplings offer the advantages of PD couplings, but are designed to connect easily and quickly under full system pressure up to 6000 PSI (operating).

PDP couplers and nipples push to connect with a constant force of only six pounds. Then the coupler base is turned to open the valve and complete the connection. In the connected position, the coupler base blocks the retracting sleeve to prevent accidental disconnects.

Specifications

	Body Size
	1/8
Rated Pressure	6000 psi
Temperature Range (std seals)	-40° to +250°

Couplers (connect-under-pressure)

Female Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/8	PDP242	1/4-18	2.15	0.81	0.96	–

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Nipples*
(connect-under-pressure)

Male Pipe

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PDP323	1/8-27	2.02	1.46	0.69	0.79	0.26
1/8	PDP343	1/4-18	1.48	0.93	0.69	0.79	0.12

Straight Thread

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PDP341	7/16-20	2.06	1.50	0.69	0.79	0.12
1/8	PDP361	9/16-18	1.48	0.93	0.69	0.79	0.07

*Add -6 to part number to include dust cap.

Triple-Lok

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PDP34BTX	7/16-20UNF-2B	2.11	1.55	0.69	.80	–
1/8	PDP36BTX	9/16-18UNF-2B	2.13	1.57	0.69	.80	–

Seal-Lok

Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/8	PDP34BTL	1/4	2.65	2.09	.69	.80	–
1/8	PDP36BTL	3/8	2.77	2.21	.81	.94	–

EMA-3 Test Port Couplings

For pressure measurement and rapid diagnosis in high pressure, low pressure and vacuum systems.

- Connection at full operating pressure
- Compact dimensions
- Zinc and yellow chromate finish
- Provided with protective caps
- Rated to 9,200 psi

Parker EMA-3 test port couplings provide a metering point for quick, and simple measurement in high and low pressure fluid systems.

Nipples

Part No.	Port Thread Size A	Hex Size B	Interface Thread Size C	Overall Length D	Wt. (LB.) P/Piece
	Dimensions (in.)				
EMA3/1/8NPT	1/8-27 NPT	.75	M16x2.0	1.81	–
EMA3/1/4NPT	1/4-18 NPT	.75	M16x2.0	1.81	–
EMA3/R1/4	1/4-19 BSPP	.75	M16x2.0	1.81	–
EMA3/7/16-20UNF-2A	7/16-20 UNF-2A	.75	M16x2.0	1.81	–
EMA3/9/16-18UNF-2A	9/16-18 UNF-2A	.75	M16x2.0	1.81	–
EMA3/M8X10R	M8 X 1	.75	M16x2.0	1.81	–
EMA3/12X1.5	M12 X 1.6	.75	M16x2.0	1.81	–

Gauge Adapter

Part No.	Dimensions(in.) Port Thread Size A	Hex Size B	Interface Thread Size C	Overall Length D	Wt. (LB.) P/Piece
MAV1/4NPT-MA3	1/4-18 NPT	.75	M16x2.0	2.22	–
MAV1/4NPT-MA3-KM Includes Dust Cap	1/4-18 NPT	.75	M16x2.0	2.22	–
MAVMD1/4NPT-MA3	1/4-18 NPT	.75	M16x2.0	2.13	–

Transducer Adapters

Part No.	Dimensions (in.) Port Thread Size A	Hex Size B	Interface Thread Size C	Hex Size D	Overall Length E	Wt. (LB.) P/Piece
SCA-EMA-3	M22x1.5	1.18	M16x2.0	.75	1.93	–
SCA-EMA-3-S	M22x1.5	1.18	M16x2.0	–	2.83	–
SCA-EMA-4	M22x1.5	1.18	M16x1.5	.75	1.93	–
SCA-EMA-1-S	M22x1.5	1.18	–	–	1.93	–

Transducer Adapters

Part No.	Thread Size A	Overall Length B	Dimensions(in.) Largest Diameter C	Hex Size D	Wt. (LB.) P/Piece
PD296	M22x1.5	2.52	1.38	1.19	–
PDP296	M22x1.5	2.58	1.38	1.19	–
EMA3VS UNION	M16x2.0	1.65	.78	.67	–

Flexible Hose

Part No.	Length (in.)	Thread Size A
SMA3-200	7.90	M16x2.0
SMA3-400	15.75	M16x2.0
SMA3-800	31.50	M16x2.0
SMA3-2000	78.75	M16x2.0
SMA3-4000	157.50	M16x2.0

Note: *Other lengths available upon request.*
Maximum pressure rating for test hose is 9200 psi.

Ordering Information

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. The Optional Seals Suffix chart illustrates the designations.

Please Note: Certain couplings series have additional "Special Order Information" which should be referred to in ordering those products. If applicable to the product, "Special Order Information" is found next to the Features and Specifications charts.

Coupler/Nipple Material

- Prefix "B" for Brass body
- Prefix "SS" for Stainless Steel body
- Standard body material is Steel

Optional Seals Suffix*

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

Coupling Series	Ethylene Propylene	Viton	Neoprene	Perfluoro-elastomer
PD Series	W	Y	Z	
PDP Series	W	Y	Z	
EMA-3 Series	W	Y	Z	

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

**N/A = Not Available; STD = Standard (No Suffix Needed)

Test Port Coupling-Selection Guide

	Valving	Body Size	Material* Br	SS	S	P	Locking Mechanism	Std. Seal Material	Temp Range**	Rated Pressure
Test Port										
PD Series	Flush Face	1/8"	●	●	●		Ball	Buna-N (Nitrile)	-40° to +250° F	6000 PSI
PDP Series	Poppet	1/8"			●		Ball	Buna-N (Nitrile)	-40° to +250° F	6000 PSI
EMA-3 Series	Poppet	1/8"			●		Threads	Buna-N (Nitrile)	-40° to +250° F	9200 PSI

* See Fluid Compatibility chart and/or consult factory for questions regarding proper material for specific applications.
CODE: Br = Brass; SS = Stainless Steel; S = Steel; P = Plastic
**Temperature Range for standard seal material.

Note: See the Specifications Table for PD and PDP Series for more information.

Extra$

EXTRA$ From the Quick Coupling Division

Extra Products
Extra Sales
Extra Profits

The items in the EXTRA$ section of the catalog are a group of non-standard and custom engineered products that have been designed for a specific customer application or requirement. These items are now available through distribution on a "special request" basis. These items have been included in this section because they may have numerous applications in similar or different markets. This line-up of products will give you a better idea of the non-standard capabilities available at the Quick Coupling Division. The Quick Coupling Division currently manufactures these non-standard products in steel, stainless steel, brass, aluminum and engineered plastics. These products are designed, manufactured and delivered by specialized manufacturing cells to insure a rapid response. For more information on one of these exciting new products, please contact the Quick Coupling Division.

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EXTRA$ From the Quick Coupling Division

Extra Products
Extra Sales
Extra Profits

Part Number: H2-62-X1
H2-63-X1

Features: This product has been specially modified to withstand severe service and adverse environmental conditions. This product is currently used on emergency rescue tools and equipment. These tools are used to bend, pull, cut and lift vehicles that have been involved in a collision. These tools have saved countless lives and can be found at many local police, fire and rescue departments. (Do not try to substitute standard hydraulic couplers for this application.)

Body Size	1/4"	Thread	9/16-18UNF-2B
Material	Steel	Seals	Ethylene Propylene
Pressure	5000 PSI	Flow	3 GPM
Vacuum	27.4 Hg	Temp	-70° F to 275° F

Part Number: ST-N2-X2

Features: If you have ever damaged an “ST” series nipple when using an extension on your spray gun, this product is for you. This product has been specially modified to withstand the severe side-load these long extensions create. The extended body on this nipple decreases the amount of stress applied on the threaded joint. This wandsaver is commonly used with 36, 48, 60 and 72 inch extensions. These extensions are used when cleaning industrial and residential buildings. This provides easy access to raingutters, soffits or any other application that requires overhead spraying.

Body Size	1/4"	Thread	1/4" NPT
Material	Steel	Seals	N/A
Pressure	5500 PSI	Flow	Contact Factory
Vacuum	N/A	Temp	N/A

Part Number: PF-1002-X3
PF-1002-X4

Features: This special modification to the tank mount versions of the PF Series nipples allow this product to act as a vacuum vent as well as a dispensing device. The specially designed lip-seal allows this product to breathe when a vacuum is applied to the container. This device will not allow the differential pressure to exceed 2 P.S.I.D. This prevents the container from collapsing when the media is being withdrawn by a pumping system. This unit reduces the operator error of opening or closing a separate venting device.

Body Size	1"	Thread	1" NPT Female
Material	Polypropylene	Seals	Premium Viton
Pressure	30 PSI	Flow	20 GPM
Vacuum	27.4 Hg	Temp	-40° F to 140° F

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EXTRA$ From the Quick Coupling Division

Extra Products
Extra Sales
Extra Profits

Part Number: 1181-X9

Features: This product was designed to help breathing air tank users improve their connecting /disconnecting efficiency and reduce the amount of time required for recharging. This push-to-connect design allows for a simple one-handed operation. The integral three-way valve allows connections and disconnections to be made at atmospheric pressure, regardless of tank or supply line pressure. The custom foam handle improves the users grip and serves as a thermal barrier when filling containers.

Body Size	1/4"	Thread	9/16-18UNF-2B
Material	303 SS	Seals	Nitrile
Pressure	5000 PSI	Flow	3 GPM
Vacuum	27.4 Hg	Temp	-40° F to 250° F

Part Number: BG25-X11

Features: This handy little blow-gun is as easy to carry in your pocket as your favorite pen. This unit is very popular in homes, shops and garages. It is very quick and easy to use. A slight turn of the knurled knob varies the volume from a slight whisper to full line volume. So whether you are cleaning a delicate electronic circuit or the top of your favorite work bench, this product is for you. This unit is rated for air pressures to 150 PSI. It comes with a built in industrial interchange nipple for ease of connection and includes a handy pocket clip.

Body Size	1/4"	Thread	N/A
Material	Aluminum	Seals	–
Pressure	150 PSI	Flow	Variable
Vacuum	–	Temp	–

Part Number: 9407-X10

Features: This product was designed to be used on the drain pan port of large diesel engines. This nipple threads directly into the standard drain plug port. It provides a fast connection with little or no spillage to the environment. Both of these benefits are what large fleet and heavy equipment operators are requesting. This product connects with the standard 3/4" NS series coupler products. Other thread configurations will be available upon request.

Body Size	3/4"	Thread	1-18 UNS-2A
Material	Steel	Seals	Nitrile
Pressure	500 PSI	Flow	Contact Factory
Vacuum	27.4 Hg	Temp	-40° F to 250° F

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Part Number: 1140-X13

Features: This check valve is used in high pressure applications on oil drilling platforms. The valve is utilized on hydrogen lines to assist in the extraction of oil. The stainless steel body construction provides good corrosion resistance in the salt-water atmosphere. This product is rated for pressures up to 15,000 PSI. The cracking pressure on this unit is 15 PSI. The male pipe thread ports allow this product to be used in very tight space requirements.

Body Size	1/4"	Thread	1/4" NPT Male
Material	303 SS	Seals	Polyurethane
Pressure	15,000 PSI	Flow	3 GPM
Vacuum	–	Temp	40° F to 250° F

Part Number: PFW-501-8FP-X14, PFW-502-8FP-X14

Features: This product was specially manufactured to meet the requirements of both the FDA and NSF. This new white product is targeted for use in the medical, food processing, chemical and other specialized industries. The flush-face low spillage design makes it the product of choice for many applications requiring virtually no spillage or air inclusion upon connection/disconnection. When dangerous chemicals are being transferred it is very important to to reduce the risk of user exposure. This product also offers the customer a simple push-to-connect design along with superior chemical compatibility.

Body Size	1/2"	Thread	1/2" NPTF
Material	Polypropylene	Seals	Premium Viton
Pressure	100 PSI	Flow	Contact Factory
Vacuum	27.4 Hg	Temp	40° F to 140° F

Part Number: SH4-62-X15

Features: This product was designed to handle the extreme temperatures associated with deep fat frying equipment. The large raised nylon sleeve reduces the chances of operator burns. This stainless steel product includes a Viton seal material that meets FDA approval. These couplers can be found on the fryer's drain line. They provide a quick connection for removing and replacing cooking oils at restaurants, concession stands and fast food establishments.

Body Size	1/2"	Thread	1/2" NPTF Female
Material	303 SS	Seals	FDA Viton
Pressure	1500 PSI	Flow	12 GPM
Vacuum	27.4 Hg	Temp	-15° F to 400° F

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Part Number: SH2-62-X16
SH2-63-X16

Features: This is a special push-to-connect product with a grip-ring sleeve. This product is currently being used on breathing air equipment in the disassembly and destruction of chemical weapons. This coupler can easily be connected and disconnected while wearing heavy wet gloves. This product also incorporates a sleeve-lock device to prevent accidental disconnections. To disconnect the user must align the locking mechanism before pulling the sleeve back.

Body Size	1/4"	Thread	1/4" NPTF Female
Material	303 SS	Seals	Nitrile
Pressure	2000 PSI	Flow	3 GPM
Vacuum	27.4 Hg	Temp	-40° F to 250° F

Part Number: 1171-60-X17
1171-61-X17

Features: This product is currently being used on fuel injection equipment. This product interchanges with other products available from Hansen, Foster and Hofmann. This unit can be offered in a single shut-off, double shut-off or a straight-thru version. This product can be used in both pneumatic and hydraulic applications. It's small size makes it a product of choice when space is limited or the flow requirements are low.

Body Size	1/4"	Thread	1/8" NPT
Material	Brass	Seals	Teflon/Viton
Pressure	200 PSI	Flow	Contact Factory
Vacuum	–	Temp	-40° F to 250° F

Part Number: NS-2001-X18
NS-2002-X18

Features: This compact 2" body size coupling was designed to function in the most demanding space requirements. The stainless steel body provides excellent corrosion resistance to even the even the harshest chemicals. The NS series flush valving design virtually eliminates spillage or air inclusion when the product is connected or disconnected. This product helps reduce the amount of chemicals exposed to both humans and the environment.

Body Size	2"	Thread	2 -11 1/2 NPTF
Material	316 SS	Seals	Viton
Pressure	150 PSI	Flow	Contact Factory
Vacuum	27.4 Hg	Temp	- 15° F to 400° F

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Part Number: 9407-X19

Features: This 1/2" body size stainless steel check valve is designed to be used with chemicals or in applications where corrosion resistance is necessary. This product also uses a soft-seat sealing technology that provides a bubble tight zero leakage seal in the reverse flow direction. This unit also has a low cracking pressure of 1 PSID which provides a very quick response in the free flow direction. Its compact size makes it easy to plumb into most systems.

Body Size	1/2"	Thread	SAE J1453-8 O-Ring Face Seal
Material	316 SS	Seals	Viton
Pressure	25 PSI	Flow	5 GPM
Vacuum	27.4 Hg	Temp	-20° F to 400° F

Part Number: 9307-025-X20, 9307-026-X20

Features: This compact aluminum coupler was designed to be used on the coolant lines of super computers. This product uses the same valving technology as the "NS" series of products. This design of valve virtually eliminates spillage and air inclusion while offering excellent flow and pressure drop characteristics. The push-to-connect design allows this product to be connected and disconnected in very tight space requirements. It also includes an integral relief in the coupler which prevents the build-up of pressure when disconnected.

Body Size	3/8"	Thread	Coupler (3/8" hose barb) Nipple (-6 SAE J514-6 O-Ring Boss)
Material	Aluminum	Seals	Teflon/Viton
Pressure	3000 PSI	Flow	Contact Factory
Vacuum	27.4 Hg	Temp	-40° F to 250° F

Part Number: NK406F-6-X21, NK406M-6-X21, NK606F-6-X21, NK606M-6-X21

Features: This 3/8" body coupler is an interchange for the Japanese Nitto Kohki HI-30 series pneumatic products. This is a single shut-off coupling device similar to the Parker 20 series products. This coupling can be found on equipment being imported from Japan for use in applications such as molding, machining and assembly. You can now gain this after market business without requiring the customer to change his original equipment specifications.

Body Size	3/8"	Thread	3/8" NPT (Male/Female)
Material	Steel	Seals	Nitrile
Pressure	300 PSI	Flow	Contact factory
Vacuum	27.4 Hg	Temp	-40° F to 250° F

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Part Number: PF-1002-X8

Features: This design allows customers to bulk-head mount this product through the wall or cover plate of plastic and steel tanks. This eliminates the need for additional bulkhead fittings and adapters. This product can be used as a withdrawal or fill port on closed-loop transfer systems. The female pipe port is designed to receive a threaded dip-tube. It mates with the standard 1" "PF" series coupler products. This product has numerous applications in both the agricultural and industrial markets.

Body Size	1"	Thread	1" NPT Female (Bulkhead)
Material	Polypropylene	Seals	Premium Viton
Pressure	30 PSI	Flow	20 GPM
Vacuum	27.4 Hg	Temp	40° F to 140° F

Part Number: B13R-90-X12

Features: This product features a 90° outlet port in the coupler body. This allows the product to be used in confined environments where the use of a single axis product is impossible. You can also reduce hose-torque, as this product will allow limited rotation. This special body modification can also be supplied on the 20, 30, 50, and 70 series pneumatic products. Please contact the division if you have a requirement that can use this type of product.

Body Size	1/4"	Thread	1/4" NPT
Material	Brass	Seals	Nitrile
Pressure	300 PSI	Flow	Contact Factory
Vacuum	27.4 Hg	Temp	-40° F to 250° F

Part Number: 1170-60-X22
1170-61-X22

Features: This compact stab coupling is ideal for applications that require a small single shut-off connector. These can be used on sensing lines, pneumatic switches and cylinders. This coupling is currently being utilized on quick change tooling for the production of printed circuit boards. In this application, the nipple is continuously under pressure. When the coupler is stab connected, the pressure activates a miniature cylinder which punches a unique pattern on the circuit board. This quick change set-up provides a simple method for producing customized circuit boards.

Body Size	1/16"	Thread	M 10 x 1.0 Metric Male O-Ring Face Seal Nipple: 1/16" Hose Barb
Material	Brass	Seals	Nitrile
Pressure	250 PSI	Flow	15 SCFM
Vacuum	N/R	Temp	40° F to 250° F

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QCD Keychains

Features: The Quick Coupling Division's unique keychain has been popular with both distributors and customers for many years. These keychains double as a great sales aid by showing the basic operating functions of a quick coupling product every time they are demonstrated. These items have a key-ring on both ends which allows you to keepyour car keys on one ring and your house keys on the other. the division has recently added five new brightly colored light-weight aluminum products. These colorful keychains are a must for anyone's line up of promotional products

Part Number	Material	Sleeve Color
KEY-BK	Anondized Aluminum	Black
KEY-BU	Anondized Aluminum	Bue
KEY-GR	Anondized Aluminum	Green
KEY-RD	Anondized Aluminum	Red
KEY-CL	Anondized Aluminum	Clear
KEY-NI	Anondized Aluminum	Brite Nickel

Mold Coolant Nipple Extensions

Features: These mold extensions are designed to eliminate the need to weld or solder a male nipple to an existing piece of pipe. The one piece solid brass construction eliminates leaks and provides excellent corrosion resistance. This also provides for fasty assembly and removal. The advantages of flush mounted nipples are numerous. It protects the sealing surface of the nipples and makes both handling and storage easier. These extensions can be cut to desired length which makes them extremely versatile. For more instructions on cutting and threading a mold extension nipple, please contact the division.

Part Number	Body Size	Thread Size	Length (Dim. D)	Hex Size (Dim. F)
PN251-25	1/4	1/8-27	2.5"	7/16"
PN251-40	1/4	1/8-27	4"	7/16"
PN251-55	1/4	1/8-27	5.5"	7/16"
PN251-70	1/4	1/8-27	7"	7/16"
PN252-25	1/4	1/4-18	2.5"	9/16"
PN252-40	1/4	1/4-18	4"	9/16"
PN252-55	1/4	1/4-18	5.5"	9/16"
PN252-70	1/4	1/4-18	7"	9/16"
PN351-25	3/8	1/8-18	2.5"	9/16"
PN351-40	3/8	1/8-18	4"	9/16"
PN351-55	3/8	1/8-18	5.5"	9/16"
PN351-70	3/8	1/8-18	7"	9/16"
PN352-25	3/8	1/4-18	2.5"	9/16"
PN352-40	3/8	1/4-18	4"	9/16"
PN352-55	3/8	1/4-18	5.5"	9/16"
PN352-70	3/8	1/4-18	7"	9/16"

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Part Number: PF-1002-X25

Features: This nipple was designed to provide the user with a simple device to rinse couplers and fluid lines on chemical handling systems. this nipple comes with a female garden hose thread connection that allows it to be attached directly to the end of a hose. Once connected, just turn on the water to flush the coupler and transfer system. This nipple includes an integral check that prevents the backflow of chemicals into the water system. This item is a must for any user of agricultural or industrial chemicals. (The brass water service coupling pictured is not included with the PF-1002-X25 and must be ordered separately.)

Body Size	1"	Thread	1" NPT
Material	Polypropylene	Seals	Premium Viton
Pressure	30 PSI	Flow	20 GPM
Vacuum	27.4 Hg	Temp	40° F to 140° F

Part Number: 6125-12-CO2 *(Replaces 6125-12-421)*
6125-12-CO2K *(Repair Kit)*

Features: This coupler is used to transfer CO_2 which is needed to carbonate beverages at restaurants and fast food establishments. Special modifications to this product allow it to be used at temperatures as low as -65° F. This includes a new lathe cut seal to reduce wear and special valving to minimize freeze-ups. Many of the large fast food facilities have the mating nipple mounted inside a door at the rear of the building. This allows the supplier of CO_2 to fill the internal tank directly from the bulk delivery truck. This unit is field repairable and is designed to interchange with the original equipment. (This product replaces part #6125-12-421)

Body Size	1/4"	Thread	3/4" NPTF
Material	Brass	Seals	Low Temperature Nitrile
Pressure	500 PSI	Flow	28 GPM
Vacuum	27.4 Hg	Temp	-65° F to 250° F

Part Number: TWM25-X29

Features: This 3-way manifold is a compact and easy way to convert one air line into three. This allows you to run up to three air tools from a single air source. You can attach a male nipple to the inlet and connect to any mating supply hose or permanently attach to your work bench. Another option is to mount a 10, 20, or 50 series coupler in each port, and then you will never have to worry about having the proper coupler interface. This manifold has three 1/4" NPT female outlets and one 1/4" NPT female inlet. This is a very handy item to carry in your toolbox.

Body Size	1/4"	Thread	1/4" NPT
Material	Aluminum	Pressure	300 PSI

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Stainless Steel Pneumatics

Features: This stainless steel line of pneumatic couplers and nipples has been designed to be used in corrosive applications or environments where food and drug products are being manufactured or handled. These stainless steel items interchange with the 20 Series Industrial Interchange product interface. This series can be used for service in pneumatic, gas, or liquid applications. Please contact the division if you require other stainless steel products or port options.

Body Size	1/4"
Thread	See Chart
Material	303 SS
Seals	Nitrile
Pressure	300 PSI
Flow	Consult Division
Locking Device	Balls
Springs	303 SS

Couplers

Body Size	Part Number	Port	Description
1/4"	S22	1/4-18 NPTF	Male Pipe Thread
1/4"	S23	1/4-18 NPTF	Female Pipe Thread

Nipples

Body Size	Part Number	Port	Description
1/4"	SH2C	1/4-18 NPTF	Male Pipe Thread
1/4"	SH2C-E	3/8-18 NPTF	Male Pipe Thread
1/4"	SH3C	1/4-18 NPTF	Female Pipe Thread
1/4"	SH3C-E	3/8-18 NPTF	Female Pipe Thread
1/4"	SH8C	1/4" Hose I.D.	Standard Hose Barb
1/4"	SH9C	3/8" Hose I.D.	Standard Hose Barb

Fluid Sampling Nipples & Kits

Features: These diagnostic fluid sampling products are designed to provide an easy access point for obtaining fluid samples. A permanently mounted test point eliminates the need to shut down or break lines when taking samplesand reduces the chances of contamination. Fluid analysis is crucial in both engines and hydraulic systems as it can reveal problems with filtration and other internal components. Early detection can prevent costly repairs, unscheduled maintenance and production downtime. These fluid sampling nipples should be installed in either low pressure or return lines. For the most accurate monitoring, fluid samples should be constantly taken from the same location.

Body Size	1/8"	Seals	Viton™
Material	Steel	Springs	Steel
Pressure	500 PSI	Temperature	-40° F to 250°F

Part Number	Description	Thread Size
PDFS341	Nipple	7/16-20 x UNF-2A
PDFS343	Nipple	1/4-18 NPTF
PDFS357	Nipple	M10 x 1-6G
PDFS-PROBE	Test Probe	N/A
927293	Sampling Kit	N/A
927293-P	Sampling Kit With Probe	N/A

Note: When you purchase either of the sampling kits, you receive the PAR-Test™-complete laboratory analysis included in the initial cost. This includes particle count, viscosity, water content and spectrachemical analysis of over 20 wear metals and additives.

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Part Number: PF-1002-X31
PF1002-X32

Features: The special modifications to these products allow them to be installed in the bottom or side ports of chemical tanks. The back adapter is cross drilled to allow the media to fully drain from the storage tank. These products thread directly into a 2" butress style bung adapter. The polypropylene body, premiumviton seals, and stainless steel springs provide excellent compatibility with a wide variety of chemicals

Body Size	1"	Thread	See Chart
Material	Polypropylene	Seals	Premium Viton™
Pressure	30 PSI	Flow Rate	20 GPM
Vacuum	27.4 Hg	Temperature	40° F to 140° F

Part Number	Body Size	Tank Thread
PF-1002-X31	1"	2" Modified Pipe Thread
PF-1002-X32	1"	2" Modified Butress Thread

Part Number: H1-63-80V
H1-63-X34
SH1-63-X35

Features: These products offer a male thread configuration which allows the part to be placed directly into the port of a manifold or placed in a guage port for diagnostic purposes. The one piece body construction eliminates the need for additional fittings or adapters and makes this a very compact product for tight space requirements. These nipples connect with the standard 1/8" 60 Series (ISO 7241-1 Series B) coupler products. Please contact the division if you require thread configuration different from the products division shown.

Body Size	Part Number	Male Thread	Material	Seals	Pressure
1/8"	H1-63-80V	M14 x 1.5 Metric	Steel	Nitrile	5000
1/8"	H1-63-X34	9/16-18 UNF-2A	Steel	Nitrile	5000
1/8"	SH1-63-X35	1/4" NPTF	303 SS	Nitrile	5000

Part Number: 9412-X36

Features: This Adapter was designed to allow the Parker 6600 Series nipples (ISO 7241-1 Series A) to be connected directly to the Parker 1/2" FF Series Dry-Disconnect couplings. Several major manufacturers of skid-steer loaders have made the conversion to the flush valved dry-disconnect products. This leaves many previous customers with attachments such as sweepers, post-hole diggers, hammers etc. without proper connections to operate. This adapter eliminates the need of having to replace the nipples on all existing equipment. You simply plug the 6600 Series nipple into the adapter and then plug the adapter into the FF Series coupler of the skid-steer loaders hydraulic system. (Note: This Product is designed to be used with the Parker FF Series interface and may noy be compatible with other manufacturers' product offerings

Body Size	1/2"	Thread	N/A
Material	Steel	Seals	Nitrile
Pressure	3000	Temperature	-40° F to 250° F

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Appendices

Fluid Compatibility Chart

PF Series (Plastic/Polypropylene Material)

Ratings Code:

G – Good to excellent. Little or no swelling, tensile or surface changes. Preferred choice.
L – Marginal or conditional. Noticeable effects but not necessarily indicating lack of serviceability. Further testing suggested for specific application. Very long-term effects such as stiffening or potential for crazing should be evaluated.
P – Poor or unsatisfactory. Not recommended without extensive and realistic testing.
— – Indicates that this was not tested.
– For Teflon. Indicates good chemical resistance but potential for excessive permeation.

MEDIA	Polypropylene	MEDIA	Polypropylene
Acetaldehyde	P	Glucose	G
Acetates	L	Glycerine	G
Acetic Acid	G	Hydriodic Acid	-
Acetic Anhydride	L	Hydrochloric Acid (Conc.)	G
Acetone	G	Hydrochloric Acid (Med. Conc.)	G
Acetyl Bromide	-	Hydrofluoric Acid	G
Acetyl Chloride	L	Hydrogen Peroxide (Conc.)	L
Air	G	Hydrogen Peroxide (Dil.)	L
Alcohols	L	Hydrogen Sulfide	G
Aluminum Salts	G	Iodine	G
Ammonia	G	Kerosene	P
Amyl Acetate	L	Ketones	G
Aniline	G	Lacquer Solvent	L
Animal Oils	G	Lactic Acid	G
Arsenic Salts	L	Lead Acetate	G
Aromatic Hydrocarbons	-	Linseed Oil	G
Barium Salts	G	Magnesium Salts	G
Benzaldehyde	L	Naphtha L	L
Benzene (Benzol)	L	Natural Gas	L
Benzyl Alcohol	G	Nickel Salts	G
Bleaching Liquors	-	Nitric Acid (Conc.)	P
Boric Acid Solution	G	Nitric Acid (Dil.)	L
Bromine	P	Nitrobenzene	G
Butane	L	Nitrogen Oxides	-
Butanol	-	Nitrous Acid	G
Butyl Acetate	P	Oils (Animal and Mineral)	L
Calcium Salts	G	Oils (Vegetable)	L
Carbon Dioxide	G	Oxygen	L
Carbon Disulfide	L	Perchloric Acid	L
Carbon Tetrachloride	P	Phenol	G
Caustic Potash	G	Potassium Salts	G
Caustic Soda	G	Pyridine	G
Chloracetic Acid	L	Silver Nitrate	G
Chlorine (Dry)	P	Soap Solutions	G
Chlorine (Wet)	P	Sodium Salts	G
Chlorobenzene	P	Stearic Acid	L
Chloroform	P	Sulfur Chloride	P
Chromic Acid	G	Sulfuric Acid (Conc.)	L
Copper Salts	G	Sulfuric Acid (Dil.)	G
Cresol	L	Sulfurous Acid	L
Cyclohexanone	L	Tannic Acid	G
Ethers	P	Tanning Extracts	L
Ethyl Acetate	L	Titanium Salts	-
Ethyl Alcohol	G	Toluene (Toluol)	P
Ethylamine	L	Trichloracetic Acid	G
Ethyl Bromide	-	Trichlorethylene	P
Ethyl Chloride	P	Turpentine	P
Fatty Acids	G	Urea	G
Ferric Salts	G	Uric Acid -	
Formaldehyde	G	Water	G
Formic Acid	G	Xylene (Xylol)	P
Freon	L	Zinc Chloride	G
Gasoline	L		

Codes

The following seal compound and body material compatibility chart is provided as an aid in selecting a specific synthetic rubber compound or body material for a particular application. Operating and environmental conditions must be considered when making the selection of a quick coupling.

Refer to Sections A (Pneumatics), B (Hydraulics) and C (Diagnostics) for Ordering Information for Seal Codes for specific products.

To indicate a special material just add the appropriate code letter as a suffix to the catalog number of the coupler. It is not necessary to use the code *"STD"* as the standard Nitrile seal will be used when another code is not used.

For recommendations for media not listed below, please contact your Parker representative or the factory.

Note

This chart is intended as a guide only and is not be considered as a recommendation to use Parker quick action couplings in a specific application or with a specific fluid, other factors that must be considered include but are not limited to: fluid and ambient temperature, system pressure, both operating and peak, frequency of connect and disconnect, and applicable standards or regulations.

CODES: 1 = Satisfactory 2 = Fair 3 = Not Recommended 4 = Insufficient Data Available

	BODY MATERIAL				SEAL MATERIAL			
MEDIA	**Brass**	**Steel**	**316 S.S.**	**303 S.S.**	**Nitrile**	**E.P.**	**Viton™**	**Neoprene**
3M FC-75	4	4	4	4	1	1	2	1
ACETAMIDE	4	4	1	2	1	1	3	1
ACETIC ACID (5%)	3	3	1	1	2	1	1	1
ACETONE	1	2	1	1	3	1	3	3
ACETOPHENONE	2	2	2	1	3	1	3	3
ACETYL ACETONE	2	2	2	2	3	1	3	3
ACETYL CHLORIDE	4	2	2	2	3	3	1	3
ACETYLENE	3	2	1	1	1	1	1	2
AIR (200 DEGREES F.)	1	2	1	1	1	1	1	1
AIR (300 DEGREES F.)	1	2	1	1	2	2	1	2
AIR (400 DEGREES F.)	1	2	1	1	3	3	1	3
ALUMINUM ACETATE	4	4	4	4	2	1	3	2
ALUMINUM BROMIDE	4	4	4	4	1	1	1	1
ALUMINUM CHLORIDE (10%)	3	3	3	3	1	1	1	1
ALUMINUM CHLORIDE (100%)	3	2	2	2	1	1	1	1
ALUMINUM FLOURIDE	3	3	3	3	1	1	1	1
ALUMINUM NITRATE	3	3	2	2	1	1	1	1
ALUMINUM SALTS	4	4	4	4	1	1	1	1
ALUMINUM SULPHATE	2	3	2	3	1	1	1	1
ALUMS (NH3,Cr,K)	4	4	4	4	1	1	3	1
AMMONIA (ANHYDROUS)	3	2	1	1	2	1	3	1
AMMONIA (COLD, GAS)	3	2	4	1	1	1	3	1
AMMONIA (HOT, GAS)	3	2	4	1	3	2	3	2
AMMONIUM CARBONATE	3	2	3	3	3	1	1	1
AMMONIUM CHLORIDE	3	3	2	3	1	1	1	1
AMMONIUM HYDROXIDE	3	3	1	2	3	1	3	1
AMMONIUM NITRATE	3	3	1	1	1	1	4	1
AMMONIUM PERSULFATE SOLUTION	3	3	1	2	3	1	4	4
AMMONIUM PHOSPHATE (MONO-, DI-, TRI-BASIC)	3	3	3	2	1	1	4	1
AMMONIUM SALTS	4	4	4	4	1	1	3	1
AMMONIUM SULFATE	3	3	2	3	1	1	3	1
AMYL BORATE	4	4	4	4	1	3	1	1
AMYL CHLORIDE	4	2	1	1	4	3	1	3
AMYL CHLORONAPHTHALENE	4	4	4	4	3	3	1	3
AMYL NAPHTHALENE	4	4	4	4	3	3	1	3
ANIMAL OIL (LARD OIL)	2	2	2	2	1	2	1	2
AROCLOR 1248	2	3	3	3	3	2	1	3
AROCLOR 1254	2	3	3	3	3	2	1	3
AROCLOR 1260	2	3	3	3	1	4	1	1

Fluid Compatibility Chart

CODES: 1 = Satisfactory 2 = Fair 3 = Not Recommended 4 = Insufficient Data Available

	BODY MATERIAL				SEAL MATERIAL			
MEDIA	**Brass**	**Steel**	**316 S.S.**	**303 S.S.**	**Nitrile**	**E.P.**	**Viton™**	**Neoprene**
AROMATIC FUEL - 50%	4	4	4	4	2	3	1	3
ARSENIC ACID	3	3	1	1	1	1	1	1
ASPHALT	3	3	1	1	2	3	1	2
ASTM OIL, NO. 1	1	1	1	1	1	3	1	1
ASTM OIL, NO. 2	1	1	1	1	1	3	1	2
ASTM OIL, NO. 3	1	1	1	1	1	3	1	3
ASTM OIL, NO. 4	1	1	1	1	2	3	1	3
ASTM REFERENCE FUEL A	3	2	1	1	1	3	1	2
ASTM REFERENCE FUEL B	3	2	1	1	1	3	1	3
ASTM REFERENCE FUEL C	3	2	1	1	2	3	1	3
AUTOMOTIVE BRAKE FLUID	4	4	4	4	3	1	3	2
BARIUM CHLORIDE	3	3	2	3	1	1	1	1
BARIUM HYDROXIDE	3	2	2	3	1	1	1	1
BARIUM SALTS	4	4	4	4	1	1	1	1
BARIUM SULFIDE	3	2	3	3	1	1	1	1
BEER	3	3	1	1	1	1	1	1
BEET SUGAR LIQUORS	3	3	1	1	1	1	1	2
BENZALDEHYDE	3	3	2	3	3	1	3	3
BENZENE	3	2	3	3	3	3	1	3
BENZENESULFONIC ACID (10%)	3	3	3	3	3	3	1	2
BENZINE	4	4	4	4	1	3	1	2
BENZOIC ACID	3	3	3	3	3	3	1	3
BENZYL ALCOHOL	4	3	1	2	3	2	1	2
BENZYL CHLORIDE	3	3	2	3	3	3	1	3
BLEACH LIQUOR	4	4	4	4	3	1	1	2
BORAX	3	2	3	3	2	1	1	3
BORDEAUX MIXTURE	4	4	4	4	2	1	1	2
BORIC ACID	3	3	2	3	1	1	1	1
BRAKE FLUID (NON-PETROLEUM)	4	4	4	4	3	1	3	2
BRINE (SODIUM CHLORIDE)	3	3	1	1	1	1	1	1
BROMINE	4	4	4	4	3	3	1	3
BROMINE WATER	4	4	4	4	3	2	1	3
BUNKER OIL	4	4	4	4	1	3	1	3
BUTADIENE (MONOMER)	3	2	1	2	3	3	1	3
BUTANE	3	1	1	1	1	3	1	1
BUTANE (2,2, & 2,3-DIMETHYL)	4	4	4	4	1	3	1	2
BUTANOL (BUTYL ALCOHOL)	2	1	1	1	1	2	1	1
BUTTER - ANIMAL FAT	2	3	1	2	1	1	1	2
BUTYL BUTYRATE	4	4	4	4	3	1	1	3
BUTYL STEARATE	4	4	4	4	2	3	1	3
CALCINE LIQUORS	4	4	4	4	1	1	1	4
CALCIUM ACETATE	4	4	4	4	2	1	3	2
CALCIUM BISULFITE	3	3	2	3	2	1	2	2
CALCIUM CARBONATE	3	2	3	2	1	1	1	1
CALCIUM CHLORIDE	3	3	2	3	1	1	1	1
CALCIUM HYDROXIDE	3	3	2	3	1	1	1	1
CALCIUM HYPOCHLORITE	3	3	2	3	2	1	1	2
CALCIUM SALTS	4	4	4	4	1	1	1	1
CALCIUM SULFIDE	3	3	2	2	1	1	1	1
CALICHE LIQUORS	4	4	4	4	1	1	1	1
CANE SUGAR LIQUORS	4	2	1	1	1	1	1	1
CARBON BISULPHIDE	4	4	4	4	3	3	1	3
CARBON DIOXIDE	1	2	1	1	1	1	1	1
CARBON DISULFIDE	2	2	2	2	3	3	1	3
CARBON MONOXIDE	1	1	1	1	1	1	1	2
CARBON TETRACHLORIDE	2	3	1	3	2	3	1	3
CARBONIC ACID	3	3	1	2	2	1	1	1
CASTOR OIL	1	1	1	1	1	2	1	1
CELLUGUARD	4	4	4	4	1	1	1	1
CELLULUBE (NOW FYRQUEL)	4	4	4	4	3	1	1	3
CHINA WOOD OIL (TUNG OIL)	2	2	1	1	1	3	1	2
CHLORINATED SALT BRINE	4	4	4	4	3	3	1	3
CHLORINATED SOLVENTS	4	4	4	4	3	3	1	3
CHLOROBENZENE	3	3	2	3	3	3	1	3
CHLOROBUTADIENE	4	4	4	4	3	3	1	3
CHLOROFORM	3	2	2	1	3	3	1	3

Fluid Compatibility Chart

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	BODY MATERIAL				SEAL MATERIAL			
MEDIA	**Brass**	**Steel**	**316 S.S.**	**303 S.S.**	**Nitrile**	**E.P.**	**Viton™**	**Neoprene**
CHLORPHENOL	4	4	4	4	3	3	1	3
COCOANUT OIL	4	4	4	4	1	3	1	3
COPPER CHLORIDE	4	4	4	4	1	1	1	2
COPPER SALTS	4	4	4	4	1	1	1	1
COPPER SULFATE	3	3	2	3	1	1	1	1
CORN OIL	2	1	1	1	1	3	1	3
COTTONSEED OIL	3	2	1	2	1	3	1	3
CREOSOLS	3	2	1	2	3	3	1	3
CREOSOTE	3	3	2	1	1	3	1	2
CRESYLIC ACID	4	2	1	2	3	3	1	3
CRUDE OIL	3	2	1	1	2	3	1	3
CUTTING OIL	4	1	1	1	1	3	1	2
DECANE	4	4	4	4	1	3	1	3
DENATURED ALCOHOL	4	4	4	4	1	1	1	1
DETERGENT, WATER SOLUTION	3	3	1	1	1	1	1	2
DIESEL FUEL	1	1	1	1	1	3	1	3
DIETHYLENE GLYCOL	3	1	1	1	1	1	1	1
DIMETHYL FORMAMIDE	4	4	1	1	2	1	3	3
DOW CHEMICAL HD50-4	4	4	4	4	4	1	3	2
DOW CORNING 200, 510, 550	4	4	4	4	2	1	1	1
DOWTHERM A,E	3	1	2	2	3	3	1	3
ETHANOL	1	3	3	3	3	1	3	1
ETHYL CHLORIDE	2	3	1	3	1	3	1	3
ETHYL HEXANOL	4	4	4	4	1	1	1	1
ETHYLENE DICHLORIDE	3	3	1	2	3	3	1	3
ETHYLENE GLYCOL	3	2	1	2	1	1	1	1
FATTY ACIDS	3	3	1	2	2	3	1	2
FREON 11	1	4	4	4	2	3	2	3
FREON 12	1	1	3	1	2	3	1	1
FREON 22	1	3	1	1	3	3	3	1
FUEL OIL	3	1	1	1	1	3	1	2
GALLIC ACID	3	3	2	2	2	2	1	2
GAS, LIQUID, PROPANE (LPG)	1	3	1	1	1	3	1	2
GAS, NATURAL	2	3	1	1	1	3	1	1
GASOLINE	1	2	1	1	3	3	1	3
GELATIN	3	3	1	1	1	1	1	1
GLUCOSE	1	1	1	1	1	1	1	1
GLYCERINE (GLYCEROL)	2	1	1	1	1	1	1	1
GLYCOLS	3	2	2	2	1	1	1	1
GREEN SULFATE LIQUOR	3	3	3	3	2	1	1	2
GULF - FR FLUID (EMULSION)	4	4	4	4	1	3	1	2
GULF - FR FLUID G	4	4	4	4	1	1	1	1
GULF - FR FLUID P	4	4	4	4	3	2	2	3
HELIUM	1	1	1	1	1	1	1	1
HEPTANE	1	1	1	1	1	3	1	2
HYDRAULIC OIL (PETROLEUM BASE)	1	1	1	1	1	3	1	1
HYDRAULIC OIL (WATER BASE)	4	1	1	1	2	1	3	2
HYDRAZINE	4	3	1	1	2	1	3	2
HYDROGEN GAS	1	1	1	1	1	1	1	1
HYDROLUBE	4	4	4	4	1	1	1	2
ISO OCTANE	1	1	1	1	1	3	1	2
ISOBUTYL ALCOHOL	4	4	1	1	2	1	1	1
ISOPROPYL ALCOHOL	1	1	2	1	2	1	1	2
ISOPROPYL ETHER	1	1	1	1	2	3	3	3
JP3 AND JP4	1	1	1	1	1	3	1	3
KEROSENE	1	1	1	1	1	3	1	2
LARD, ANIMAL FAT	1	1	1	1	1	2	1	2
LINSEED OIL	3	1	1	1	1	3	1	3
LUBRICATING OIL SAE 10, 20, 30, 40, 50	1	1	1	1	1	3	1	2
MAGNESIUM SALTS	4	4	4	4	1	1	1	1
MAGNESIUM SULPHATE	3	3	2	2	1	1	1	1
MERCURY	3	3	1	1	1	1	1	1
METHANE	1	3	1	1	1	3	1	2
METHANOL	1	1	1	1	1	1	3	1
METHYL BROMIDE	4	1	1	1	2	3	1	3
METHYL CHLORIDE (WET)	1	3	1	3	3	3	1	3

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	BODY MATERIAL				SEAL MATERIAL			
MEDIA	**Brass**	**Steel**	**316 S.S.**	**303 S.S.**	**Nitrile**	**E.P.**	**Viton™**	**Neoprene**
METHYL CHLORIDE (DRY)	2	3	1	1	3	3	1	3
METHYL ETHER	4	4	4	4	1	3	1	3
METHYL ETHYL KETONE (MEK)	1	1	1	1	3	1	3	3
MIL-F-81912 (JP-9)	1	1	1	1	3	3	1	3
MIL-H-5606	1	1	1	1	1	3	1	2
MIL-H-6083	1	1	1	1	1	3	1	1
MIL-H-7083	1	1	1	1	1	1	2	2
MIL-H-8446 (MLO-8515)	2	1	1	1	2	3	1	1
MIL-L-2104 & 2104B	1	1	1	1	1	3	1	2
MIL-L-7808	3	2	1	1	2	3	1	3
MILK	2	1	1	1	1	1	1	1
MINERAL OILS	1	1	1	1	1	3	1	2
MLO-7277 AND MLO-7557	2	1	1	1	3	3	1	3
MOBILE HF	1	1	1	1	1	3	1	2
MONOMETHYL HYDRAZINE	4	4	4	4	2	1	4	2
NAPHTHA (COAL OR PETROLEUM)	2	1	2	2	2	3	1	3
NAPHTHALENE	2	1	2	2	3	3	1	3
NAPHTHENIC ACID	2	1	2	2	2	3	1	3
NEATSFOOT OIL	4	4	4	4	1	2	1	3
NICKEL, ACETATE	3	2	1	1	2	1	3	2
NICKEL CHLORIDE	3	3	2	2	1	1	1	2
NICKEL SALTS	4	4	4	4	1	1	1	2
NICKEL SULFATE	3	3	1	1	1	1	1	1
NITROGEN	1	1	1	1	1	1	1	1
NITROUS OXIDE	2	2	2	1	1	4	4	4
OCTYL ALCOHOL	1	1	1	1	2	3	1	2
OLIVE OIL	2	1	1	1	1	2	1	2
ORTHO-DICHLOROBENZENE	2	2	2	2	3	3	1	3
OXALIC ACID	3	3	2	1	2	1	1	2
OXYGEN (200-400 DEGREES F.)	1	1	1	1	3	3	2	3
OXYGEN, COLD	1	1	1	1	2	1	1	1
OZONE	3	3	1	1	3	1	1	3
PALMITIC ACID	1	2	1	1	1	2	1	2
PARA-DICHLOROBENZENE	2	1	1	2	3	3	1	3
PARKER O LUBE	1	1	1	1	1	3	1	1
PEANUT OIL	2	1	1	1	1	3	1	3
PENTANE (2-3-METHYL, & 2-4 DIMETHYL)	2	2	2	2	1	3	1	2
PERCHLORIC ACID -2N	3	3	2	2	3	2	1	2
PERCHLOROETHYLENE	3	2	2	2	2	3	1	3
PETROLATUM	1	1	1	1	1	3	1	2
PETROLEUM OIL, BELOW 250 DEGREES F.	1	1	1	1	1	3	1	2
PHENOL	1	1	1	1	3	3	1	3
PHOSPHORIC ACID (3 MOLAR)	3	3	2	2	1	1	1	2
PHOSPHORIC ACID (CONCENTRATED)	3	3	2	2	3	1	1	3
PHOSPHOROUS TRICHLORIDE	3	3	1	1	3	1	1	3
PICRIC ACID, MOLTEN	3	3	2	2	2	2	1	2
PICRIC ACID, WATER SOLUTION	3	3	2	2	1	1	1	1
PINE OIL	2	2	1	2	1	3	1	3
PLATING SOLUTIONS (CHROME)	1	3	1	1	4	1	1	3
PLATING SOLUTIONS (OTHER)	4	1	1	1	1	1	1	3
PNEUMATIC SERVICE	1	1	1	1	1	1	1	1
POTASSIUM ACETATE	2	1	2	2	2	1	3	2
POTASSIUM CHLORIDE	3	3	1	2	1	1	1	1
POTASSIUM CYANIDE	3	2	2	2	1	1	1	1
POTASSIUM DICHROMATE	3	1	2	2	1	1	1	1
POTASSIUM HYDROXIDE (50%)	3	2	1	2	2	1	3	2
POTASSIUM NITRATE	2	1	1	1	1	1	1	1
POTASSIUM SALTS	4	4	4	4	1	1	1	1
POTASSIUM SULFATE	3	2	1	1	1	1	1	1
PRL-HIGH TEMP. HYDR. OIL	4	4	4	4	2	3	1	2
PRODUCER GAS	2	1	1	1	1	3	1	2
PROPANE	1	3	1	1	1	3	1	2
PROPYL ACETATE	3	1	1	1	3	2	3	3
PROPYL ALCOHOL	1	1	1	1	1	1	1	1
PROPYLENE	1	1	1	1	3	3	1	3
PYDRAUL 10E	3	1	1	1	3	1	3	3

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	BODY MATERIAL				SEAL MATERIAL			
MEDIA	**Brass**	**Steel**	**316 S.S.**	**303 S.S.**	**Nitrile**	**E.P.**	**Viton™**	**Neoprene**
PYDRAUL A-200, C SERIES	3	1	1	1	3	3	1	3
PYDRAUL, 3 SERIES	3	1	1	1	3	1	1	3
PYROGARD 42, 43, 53, 55 (PHOSPHATE ESTER)	4	4	4	4	3	1	1	3
PYROGARD D	4	4	4	4	1	3	3	2
SEA WATER (SALT WATER)	2	3	1	1	1	1	1	2
SHELL IRUS 905	4	4	4	4	1	3	1	2
SILICONE GREASES	1	1	1	1	1	1	1	1
SILVER NITRATE	3	3	1	2	2	1	1	1
SKYDROL 500, TYPE 2	3	1	1	1	3	1	3	3
SKYDROL 7000, TYPE 2	3	1	1	1	3	1	2	3
SOAP SOLUTIONS	3	3	1	1	1	1	1	2
SODIUM ACETATE	1	1	1	1	2	1	3	2
SODIUM BICARBONATE (BAKING SODA)	2	2	1	1	1	1	1	1
SODIUM BISULPHATE OR BISULPHITE	3	3	2	1	1	1	1	1
SODIUM BORATE	3	2	2	2	1	1	1	1
SODIUM CARBONATE (SODA ASH)	4	1	1	1	1	1	1	1
SODIUM CHLORIDE	3	2	2	2	1	1	1	1
SODIUM CYANIDE	3	1	1	1	1	1	4	1
SODIUM HYDROXIDE (CAUSTIC SODA, LYE)	3	2	1	2	2	1	2	2
SODIUM HYDROXIDE, 50%	3	3	1	2	2	1	2	2
SODIUM METAPHOSPHATE	2	1	2	2	1	1	1	2
SODIUM NITRATE	3	2	1	1	2	1	4	2
SODIUM PERBORATE	3	3	1	1	2	1	1	2
SODIUM PEROXIDE	3	1	2	2	2	1	1	2
SODIUM PHOSPHATES	1	3	2	1	1	1	1	2
SODIUM SALTS	4	4	4	4	1	1	1	2
SODIUM SULFATE	3	2	1	1	1	1	1	1
SODIUM SULFIDE AND SULFITE	3	3	2	3	1	1	1	1
SODIUM THIOSULFATE	3	3	1	2	2	1	1	1
SOYBEAN OIL	2	1	1	1	1	3	1	3
STANNOUS CHLORIDE (15%)	3	3	2	3	1	1	1	1
STEAM, BELOW 400 DEGEEES F.	1	3	1	1	3	1	3	3
STODDARD SOLVENT	2	1	1	1	1	3	1	2
SUCROSE SOLUTIONS	1	1	1	1	1	1	1	2
SULFUR	2	1	1	1	3	1	1	1
SULFUR LIQUORS	1	1	1	1	2	2	1	2
SULFUR (MOLTEN)	3	3	1	1	3	3	1	3
SULFUR DIOXIDE (DRY)	3	1	1	3	3	1	3	3
SULFUR TRIOXIDE (DRY)	2	2	2	3	3	2	1	3
SUNSAFE	3	1	1	1	1	3	1	2
TANNIC ACID (10%)	1	3	2	3	1	1	1	2
TAR, BITUMINOUS	2	1	1	1	2	3	1	3
TARTARIC ACID	2	3	3	2	1	2	1	2
TERPINEOL	4	4	4	4	2	3	1	3
TERTIARY BUTYL ALCOHOL	1	1	1	1	2	2	1	2
TETRACHLOROETHANE	4	2	1	2	3	3	1	3
TETRACHLOROETHYLENE	3	2	2	4	3	3	1	3
TETRAETHYL LEAD	1	1	1	1	2	3	1	2
TETRAETHYL LEAD (BLEND)	1	1	1	1	2	3	1	3
TITANIUM TETRACHLORIDE	2	1	2	3	2	3	1	3
TOLUENE	1	1	1	1	3	3	1	3
TRANSFORMER OIL	1	1	1	1	1	3	1	2
TRANSMISSION FLUID (TYPE A)	1	1	1	1	1	3	1	2
TRICHLOROETHANE	4	2	1	4	3	3	1	3
TRICHLOROETHYLENE	3	2	2	2	3	3	1	3
TRICRESYL PHOSPHATE	4	1	2	2	3	1	2	3
TURBINE OIL #15 (MIL-L-7808A)	4	2	1	1	2	3	1	3
TURPENTINE	3	2	1	1	1	3	1	3
VARNISH	1	1	1	1	2	3	1	3
WATER	1	3	1	1	1	1	2	2
WHISKEY	1	3	1	1	1	1	1	1
WINE	1	3	1	1	1	1	1	1
WOOD OIL	4	2	1	1	1	3	1	2
XYLENE	1	2	1	1	3	3	1	3
ZINC SULFATE	3	3	2	2	1	1	1	1

SAFETY GUIDE FOR SELECTING AND USING QUICK ACTION COUPLINGS AND RELATED ACCESSORIES

DANGER: Failure or improper selection or improper use of quick action couplings or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of quick action couplings or related accessories include but are not limited to:

- **Couplings or parts thrown off at high speed.**
- **High velocity fluid discharge.**
- **Explosion or burning of the conveyed fluid.**
- **Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid.**
- **Dangerously whipping hose.**
- **Contact with conveyed fluids that may be hot, cold, toxic, or otherwise injurious.**
- **Sparking or explosion while paint or flammable liquid spraying.**

Before selecting or using any Parker quick action couplings or related accessories, it is important that you read and follow the following instructions.

1.1 Scope: This safety guide provides instructions for selecting and using (including installing connecting, disconnecting, and maintaining) quick action couplings and related accessories (including caps, plugs, blow guns, and two way valves). This safety guide is a supplement to and is to be used with, the specific Parker publications for the specific quick action couplings and related accessories that are being considered for use.

1.2 Fail-Safe: Quick action couplings or the hose they are attached to can fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the quick action coupling or hose will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person that is responsible for selecting or using quick action coupling products. Do not select or use quick action couplings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility: Due to the wide variety of operating conditions and uses for quick action couplings, Parker and its distributors do not represent or warrant that any particular quick action coupling is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the quick action couplings.
- Assuring that the user's requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the quick action couplings are used.

1.5 Additional Questions: Call the appropriate Parker customer service department if you have any questions or require any additional information. For the telephone numbers of the appropriate customer service department, see the Parker publication for the product being considered or used.

2.0 QUICK ACTION COUPLING SELECTION INSTRUCTIONS

2.1 Pressure: Quick action couplings selection must be made so that the published rated pressure of the coupling is equal to or greater than the maximum system pressure. Surge pressures in the system higher than the rated pressure of the coupling will shorten the quick action coupling's life. Do not confuse burst pressure or other pressure values with rated pressure and do not use burst pressure or other pressure values for this purpose.

2.2 Fluid Compatibility: Quick action couplings selection must assure compatibility of the body and seal materials with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used.

2.3 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the quick action couplings. Use caution and hand protection when connecting or disconnecting quick action couplings that are heated or cooled by the media they are conducting or by their environment.

2.4 Size: Transmission of power by means of pressurized liquid varies with pressure and rate of flow. The size of the quick action couplings and other components of the system must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.5 Pressurized Connect or Disconnect: If connecting or disconnecting under pressure is a requirement, use only quick action couplings designed for that purpose. The rated operating pressure of a quick action coupling may not be the pressure at which it may be safely connected or disconnected.

2.6 Environment: Care must be taken to ensure that quick action couplings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

2.7 Locking Means: Ball locking quick action couplings can unintentionally disconnect if they are dragged over obstructions on the end of a hose or if the sleeve is bumped or moved enough to cause disconnect. Sleeves designed with flanges to provide better gripping for oily or gloved hands are especially susceptible to accidental disconnect and should not be used where these conditions exist. Sleeve lock or union (threaded) sleeve designs should be considered where there is a potential for accidental uncoupling.

2.8 Mechanical Loads: External forces can significantly reduce quick action couplings' life or cause failure. Mechanical loads which must be considered include excessive tensile or side loads, and vibration. Unusual applications may require special testing prior to quick action couplings selection.

2.9 Specifications and Standards: When selecting quick action couplings, government, industry, and Parker specifications must be reviewed and followed as applicable.

2.10 Vacuum: Not all quick action couplings are suitable or recommended for vacuum service. Quick action couplings used for vacuum applications must be selected to ensure that the quick actions couplings will withstand the vacuum and pressure of the system.

2.11 Fire Resistant Fluids: Some fire resistant fluids require seals other than the standard nitrile used in many quick action couplings.

2.12 Radiant Heat: Quick action couplings can be heated to destruction or loss of sealability without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the quick action couplings.

2.13 Welding and Brazing: Heating of plated parts, including quick action couplings and port adapters, above 450°F (232°C) such as during welding, brazing, or soldering may emit deadly gases and may cause coupling seal damage.

3.0 QUICK ACTION COUPLING INSTALLATION INSTRUCTIONS

3.1 Pre-Installation Inspection: Before installing a quick action coupling, visually inspect it and check for correct style, body material, seal material, and catalog number. Before final installation, coupling halves should be connected and disconnected with a sample of the mating half with which they will be used.

3.2 Quick Action Coupling Halves From Other Manufacturers: If a quick action coupling assembly is made up of one Parker half and one half from another manufacturer, the lowest pressure rating of the two halves should not be exceeded.

3.3 Fitting Installation: Use a thread sealant, lubricant, or a combination of both when assembling pipe thread joints in quick action couplings. Be sure the sealant is compatible with the system fluid or gas. To avoid system contamination, use a liquid or paste type sealant rather than a tape style. Use the flats provided to hold the quick action coupling when installing fittings. Do not use pipe wrenches or a vice on other parts of the coupling to hold it when installing or removing fittings as damage or loosening of threaded joints in the coupling assembly could result. Do not apply excessive torque to taper pipe threads because cracking or splitting of the female component can result.

3.4 Caps and Plugs: Use dust caps and plugs when quick action couplings are not coupled to exclude dirt and contamination and to protect critical surfaces from damage.

3.5 Coupling Location: Locate quick action couplings where they can be reached for connect or disconnect without exposing the operator to slipping, falling, getting sprayed, or coming in contact with hot or moving parts.

3.6 Hose Whips: Use a hose whip (a short length of hose between the tool and the coupling half) instead of rigidly mounting a coupling half on hand tools or other devices. This reduces the potential for coupling damage if the tool is dropped and provides some isolation from mechanical vibration which could cause uncoupling.

4.0 QUICK ACTION COUPLING MAINTENANCE INSTRUCTIONS

4.1 Even with proper selection and installation, quick action coupling life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum:

4.2 Visual Inspection of Quick Action Couplings: Any of the following conditions require immediate shut down and replacement of the quick action coupling:

- Cracked, damaged, or corroded quick action coupling parts.
- Leaks at the fitting, valve or mating seal.
- Broken coupling mounting hardware, especially breakaway clamps.

4.3 Visual Inspection All Other: The following items must be tightened, repaired or replaced as required:

- Leaking seals or port connections.
- Remove excess dirt buildup on the coupling locking means or on the interface area of either coupling half.
- Clamps, guards, and shields.
- System fluid level, fluid type and any air entrapment.

4.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.

4.5 Replacement Intervals: Specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage or injury risk. See instruction 1.2 above.

Additional copies of the preceding safety information can be ordered by requesting “Safety Guide For Selecting and Using Quick Action Couplings and Related Accessories,” Parker Publication No. 3800-B1.0

Contact The Quick Coupling Division, Minneapolis, MN.

Note

1. Inclusion of part numbers in this index or elsewhere in the catalog is not necessarily an indication that they are available from stock. Only items listed in the current price list are carried in stock. Parts marked as Semi-Standard, consult factory for price and delivery.

2. Catalog numbers ending in the letter W, Y, or Z are not listed in this index, as these suffixes merely designate the use of an optional seal. The item can be located in the catalog by referring to the basic number without the W, Y or Z suffix. This does not apply to SM, HP, NS, NC, FF, FS, FH, TC, and HO Series. Please see ordering information at the end of Section B.

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6120-12	B40
6120-16	B40
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6120-24	B40
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6125-12	B41
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6125-20	B41
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6130-12	B40
6130-16	B40
6130-20	B40
6130-24	B40
6135-08	B41
6135-12	B41
6135-16	B41
6135-20	B41
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6602-8-10	B11
6602-12-10	B11
6602-12-12	B11
6602-16-16	B11
6608-6-6	B11
6608-8-10	B11
6608-10-10	B11
6608-12-10	B11
6608-12-12	B11
6608-16-16	B11
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Air Inclusion
The ambient atmosphere forced into the system during the connection of the quick disconnect halves.

Break-Away
Automatic disconnection of a coupling when an axial separation force is applied.

Brinelling
Dimples or grooves worn into the shoulder of a male half by the locking balls in the female half.

Burst Pressure
The pressure at which a device loses the capability to retain pressure.

Case Hardening
Hardening the surface of low carbon steel..

Cold Flow
Continued deformation under load.

Connect Under Pressure
Ability to connect coupling halves with internal line pressure applied to either both sides or one side.

Coupling, Female Half
Other nomenclature “coupler”, “socket”, “body”.

Coupling, Male Half
Other nomenclature “nipple”, “plug”, “adapter”.

Coupling, Quick Disconnect
A component which can quickly join or separate a fluid line without the use of tools or special devices.

Differential Pressure(ΔP)
The difference in pressure between any two points of a system or a component.

Double-Acting Sleeve.
Permits push-to-connect and pull-to-disconnect convenience on implement line when female half is clamp mounted and connected with a hose.

Dust Cap
Dust or dirt repelling enclosure for both halves.

Dust Plug
Dust or dirt repelling enclosure both halves.

Flow Checking.
Occurs when a nipple valve closes during flow conditions, such as when quickly lowering a heavy implement. (Also called Check Off, Back Checking or Lock-up.)

Flush Position (Valve)
When the coupler valve is fully open, allowing maximum oil flow.

Force to Connect
Axial and/or rotational force required to make a complete connection.

Force to Disconnect
The reverse of the above.

Induction Hardening.
Localized hardening of medium carbon steel.

Peak Pressure
Maximum momentary pressure encountered in the operation of a component.

Pressure Cap
Cap which incorporates a seal capable of withstanding the rated pressures on the male half.

Pressure Impulse Test
Subjecting a component to a specified pressure at a specified rate of increase or decrease for a specified time limit.

Pressure Operating
The pressure at which a system is operated.

Pressure Plug
Plug which incorporates a seal capable of withstanding the rated pressures on the female half.

Proof Pressure
The non-destructive test pressure in excess of the maximum rated operating pressure.

Push To Connect (Auto Lock)
Locking arrangement which permits one handed connection by pushing the nipple into the coupler.

Rated Pressure
The maximum pressure at which a product is designed to operate.

Single-Acting Sleeve
Permits pull-to-disconnect convenience on implement line when female body is clamp mounted. Making connection requires manually pulling female body forward, inserting male tip, then allowing body and tip to return to original position in the clamp.

Sleeve Lock
Arrangement which provides an additional lock which must be actuated before the locking sleeve can be retracted.

Spillage
The fluid removed from the system due to disconnection of a coupling assembly. This is the fluid trapped between the mating seal and the valve seal of the coupling halves.

Surge Pressure
The pressure existing from surge conditions.

Surge Flows
A rapid increase in fluid flow.

Thermal Build-Up.
Hydraulic pressure caused by expansion of the fluid due to heat from an external source such as sunlight.

Trapped Pressure
Pressurized hydraulic fluid trapped behind closed coupling valve

Twist Lock
A locking arrangement which requires a rotational actuation to unlock the mating halves.

Types of Quick Disconnect Coupling Valves

Straight-Thru (ST)
This provides straight through flow.

Double Shut-off Valve (DSO)
A valve in the female half and a valve in the male half.

Single Shut-off Valve (SSO)
Generally, a valve in the female half with no valve in the male half.

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