

Hydraulic Quick Couplings

Double Shut-Off and Straight-Thru Couplings

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

Double Shut-Off couplings are used extensively when it is important to minimize fluid loss upon disconnection. Both halves of the coupler, the body and the nipple, contain shut-

off valves. These valves open automatically when the body and nipple are connected, and close automatically when the two halves are disconnected—keeping fluid loss to a minimum.

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

Rated Pressure

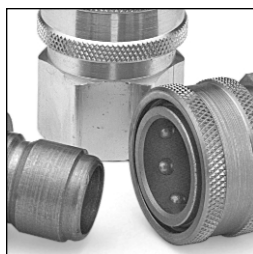
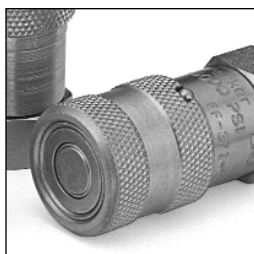
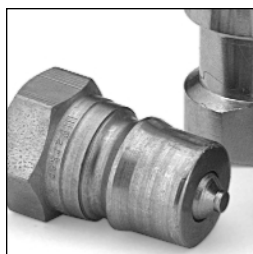
Rated pressure for the Parker hydraulic couplings range from 30 to 15,000 psi, depending on the coupling series, size and materials. Rated pressures as shown in this catalog are defined in the American National Standard Glossary of Terms for Fluid Power, ANSI/B93.2-1986, as “the qualified operating pressures 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.



Introduction	B-2
Coupling Selection Guide	B-4
General Purpose Couplings	
60 Series	B-5-8
Couplers	B-7-8
Nipples	B-7-8
60 Series Steam	B-9
Couplers	B-9
Nipples	B-9
6600 Series	B-10-11
Couplers	B-11
Nipples	B-11
SM Series	B-12-13
Couplers	B-13
Nipples	B-13
HP Series	B-14-15
Couplers	B-15
Nipples	B-15
4000 Series	B-16-17
Couplers	B-17
Nipples	B-17
4200 Series	B-18-19
Couplers	B-19
Nipples	B-19
Non-Spill Couplings	
NS Series	B-20-21
Couplers	B-21
Nipples	B-21
NC Series	B-22-23
Couplers	B-23
Nipples	B-23
Adapters	B-24
FF Series	B-25-26
Couplers	B-26
Nipples	B-26
FE Series	B-27-28
Couplers	B-28
Nipples	B-28
FEM Series	B-29-30
Couplers	B-30
Nipples	B-30
FC Series	B-31
Nipples	B-31

FEC Series	B-32
Nipples	B-32
FH Series	B-33-34
Couplers	B-34
Nipples	B-34
FS Series	B-35-37
Couplers	B-36
Nipples	B-37
Connect Under Pressure Couplings	
6100 Series	B-39-41
Couplers	B-41
Nipples	B-41
8200 Series	B-42-43
Couplers	B-43
Nipples	B-43
9200 Series	B-44-45
Couplers	B-45
Nipples	B-45
5000 Series	B-46-47
Couplers	B-47
Nipples	B-47
High Pressure Couplings	
3000 Series	B-48-49
Couplers	B-49
Nipples	B-49
TC Series	B-50
Couplers	B-50
Nipples	B-50
1141 Series	B-51
Mold Coolant Line Couplings	
Moldmate Series	B-52-55
Couplers	B-53-54
Nipples	B-55
High Flow Couplings	
ST Series	B-56-58
Couplers	B-57
Nipples	B-58
Water Service	B-59
WB Series	B-60
HO Series	B-61
Dust Plugs and Dust Caps	B-62-64
Ordering Information	B-65
Promotional Products-Keychains	B-66

Coupling Selection Guide

Hydraulic Quick Couplings

	Valving	Body Size	Material* Br SS S	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
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
Adapter	Poppet/Ball	1/2"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	3000 to 3625 PSI
FF Series	Flush Face	1/4 to 1"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	3000 to 5000 PSI
FE Series	Flush Face	1/2 to 5/8"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	3625 PSI
FEM Series	Flush Face	1/4 to 1"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	3000 to 5000 PSI
FC Series***	Flush Face	3/8 to 3/4"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	3000 PSI
FEC Series***	Flush Face	3/8 to 3/4"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	3000 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	Flouorocarbon	-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
8200 Series	Poppet/Ball	1/4 to 1"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	2500 to 3000 PSI
9200 Series	Poppet	1/2"	●	Ball	Buna-N (Nitrile)	-40° to +250° F	3000 PSI
5000 Series	Ball	1/2"	●	Threads	Buna-N (Nitrile)	-40° to +250° F	2500 PSI
High Pressure							
3000 Series	Ball	1/4 to 3/8"	●	Threads	Polyurethane	-65° to +180° F	10,000 PSI
TC Series	Poppet	3/8"	●	Ball	Flouorocarbon	-30° to +400° F	10,000 PSI
1141 Series	Poppet	1/4"	●	Threads	Polyurethane	-40° to +180° F	10,000 PSI
Mold Coolant							
Moldmate	Valved & Unvalved	1/4 to 1/2"	●	Ball	Silicone	-20° to +400° F	200 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	1/2"	●	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

* 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

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



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 Fluorocarbon, 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 H3-62-SL. 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.

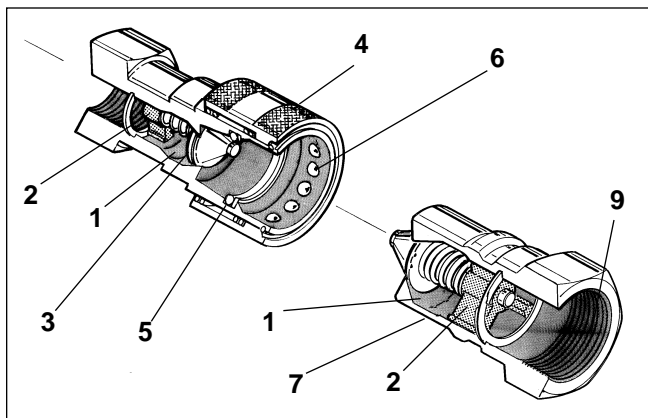
Note

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 (in.)	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 Fluorocarbon 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 recommended for service in disconnected 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 Division catalogs and is available as Parker Publication No. 3800-B1.0.																

Body Size (in.)	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

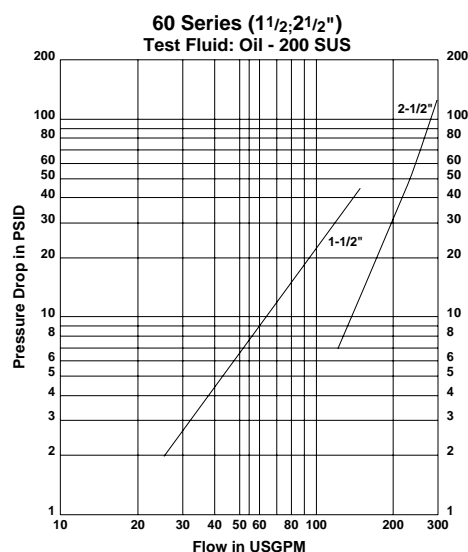
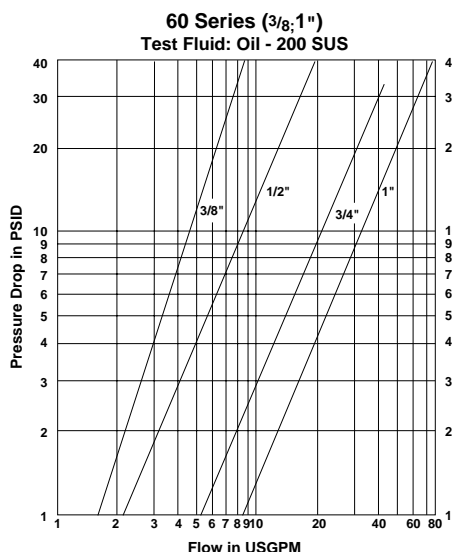
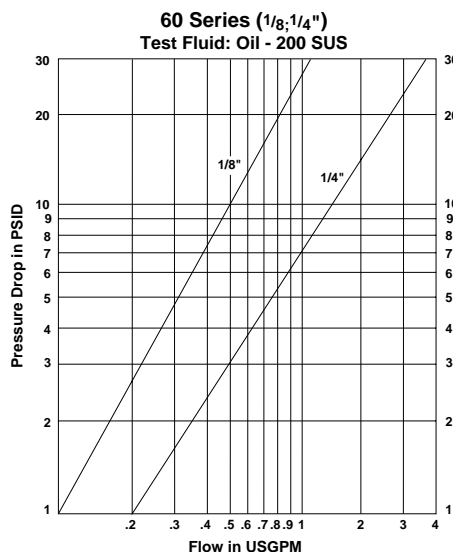


Features

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 Interchange with all ISO 7241 Series B couplings.
9. Also available with a Straight Thread (ORB) end configuration available as standard.

Performance



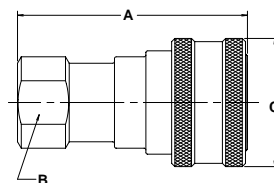
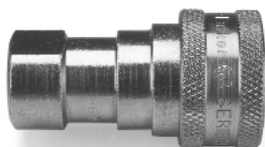
Hydraulic Quick Couplings

General Purpose Couplings

60 Series

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
1/8	BH1-60	0.16	H1-62	0.16	SH1-62	0.16	SSH1-62Y**	0.15	1/8-27	—	A	B	C
1/8	—	—	H1-62-T4*	0.18	SH1-62-T4*	0.10	SSH1-62Y-T4	0.17	—	7/16-20	1.90	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	—	2.06	0.68	0.96
1/4	—	—	H2-62-T6	0.31	SH2-62-T6	0.31	SSH2-62Y-T6	0.31	—	9/16-18	2.26	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	—	2.41	0.81	1.14
3/8	—	—	H3-62-T8	0.51	SH3-62-T8	0.51	SSH3-62Y-T8	0.51	—	3/4-16	2.49	0.88	1.40
1/2	BH4-60	0.80	H4-62	0.73	SH4-62	0.75	SSH4-62Y	0.76	1/2-14	—	2.75	1.00	1.40
1/2	—	—	H4-62-T10	0.78	SH4-62-T10	0.75	SSH4-62Y-T10	0.78	—	7/8-14	2.87	1.12	1.77
3/4	BH6-60	—	H6-62	1.30	SH6-62	1.31	SSH6-62Y	1.33	3/4-14	—	3.05	1.12	1.77
3/4	—	—	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	—	H8-62	1.95	SH8-62	1.95	SSH8-62Y	1.95	1-11 1/2	—	4.18	1.62	2.52
1	—	—	H8-62-T16	1.95	SH8-62-T16	1.95	SSH8-62Y-T16	1.95	—	1-5/16-12	4.18	1.62	2.52

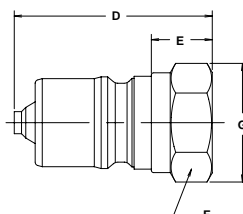
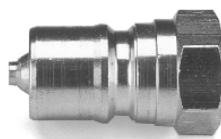
* T = Designator for SAE Straight Thread

** Suffix 'Y' designates Fluorocarbon Seal. (Contact factory for seal options)

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
1/8	BH1-61	0.04	H1-63	0.03	SH1-63	0.03	SSH1-63Y**	0.04	1/8-27	—	D	E	F	G
1/8	—	0.06	H1-63-T4*	0.05	SH1-63-T4	—	SSH1-63Y-T4*	0.06	—	7/16-20	1.26	0.44	0.56	0.65
1/4	BH2-61	0.09	H2-63	0.08	SH2-63	0.08	SSH2-63Y	0.08	1/4-18	—	1.41	0.59	0.69	0.79
1/4	—	0.11	H2-63-T6	0.10	SH2-63-T6	0.10	SSH2-63Y-T6	0.10	—	9/16-18	1.54	0.55	0.75	0.87
3/8	BH3-61	0.10	H3-63	0.12	SH3-63	0.12	SSH3-63Y	0.12	3/8-18	—	1.69	0.70	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	1.68	0.54	0.88	1.01
1/2	BH4-61	0.25	H4-63	0.24	SH4-63	0.24	SSH4-63Y	0.24	1/2-14	—	1.94	0.80	1.00	1.15
1/2	—	0.28	H4-63-T10	0.27	SH4-63-T10	0.27	SSH4-63Y-T10	0.27	—	7/8-14	1.94	0.69	1.12	1.30
3/4	BH6-61	0.50	H6-63	0.46	SH6-63	0.45	SSH6-63Y	0.46	3/4-14	—	2.12	0.87	1.19	1.37
3/4	—	0.55	H6-63-T12	0.46	SH6-63-T12	0.50	SSH6-63Y-T12	0.50	—	1-1/16-12	2.43	0.79	1.38	1.59
1	BH8-61	0.76	H8-63	0.76	SH8-63	0.76	SSH8-63Y	0.76	1-11 1/2	—	2.54	0.90	1.34	1.59
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
											2.91	0.99	1.62	1.88*

* T = Designator for SAE Straight Thread

** Suffix 'Y' designates Fluorocarbon Seal. (Contact factory for seal options)

Contact division for BSPP port availability

Optional Seals

60 Series



Optional Seals Suffix*

W	Ethylene Propylene (EPR)
Y	Fluorocarbon Seals
Z	Neoprene
-264	Perfluoroelastomer (Kalrez) TM

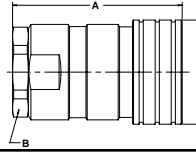
* See Ordering Information at end of Section B.

Hydraulic Quick Couplings

General Purpose Couplings 60 Series

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

* T = Designator for SAE Straight Thread

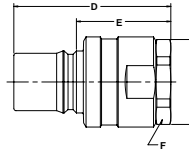
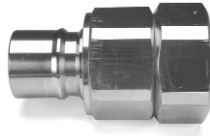
** Suffix 'Y' designates Fluorocarbon Seal. (Consult factory for seal options)

‡ 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	

* T = Designator for SAE Straight Thread

** Suffix 'Y' designates Fluorocarbon 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

Body Size (in.)	Repair Kit Part No.	Used For Part No.	Repair Kit Part No.	Used For Part No.
3/8	H67E-62K BH67E-60K SH67E-62 SSH67E-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

Nipples

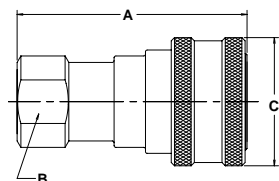


Specifications

Body Size (in.)	1/4 to 1
Rated Pressure (PSI) with saturated steam at 338°F	100
Temperature Range (std seals)	Ethylene Propylene
Continuous	+250°F
Intermittent	+400°F

Coupler

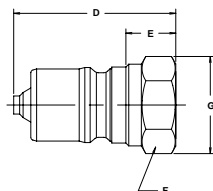
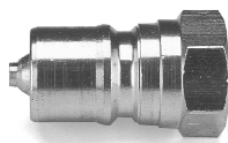
Female Pipe Thread



Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimension (in.)				Wt. (LB.) P/Piece
			Overall Length	Wrench Flats	Largest Diameter		
			A	B	C		
1/4	BH2-60-STM	1/4-18	2.26	0.81	1.14		0.30
3/8	H3-68	3/8-18	2.50	0.88	1.77		0.50
1/2	BH4-60-STM	1/2-14	2.87	1.12	1.77		0.75
3/4	BH6-60-STM	3/4-14	3.56	1.31	2.14		1.31
1	BH8-60-STM	1-11 1/2	4.18	1.62	2.52		1.95

Nipple

Female Pipe Thread



Body Size (in.)	Part No. Brass	Thread Size NPTF	Overall Length	Dimension (in.)				Wt. (LB.) P/Piece
				Exposed Length	Hex Size	Largest Diameter		
			D	E	F	G		
1/4	BH2-61-STM	1/4-18	1.39	0.65	0.75	0.87		0.08
3/8	H3-69	3/8-18	1.50	0.52	0.88	1.01		0.13
1/2	BH4-61-STM	1/2-14	1.75	0.69	1.12	1.30		0.24
3/4	BH6-61-STM	3/4-14	2.16	0.79	1.38	1.59		0.46
1	BH8-61-STM	1-11 1/2	2.91	0.99	1.62	1.88		0.76

Repair Kits

Steam Coupling

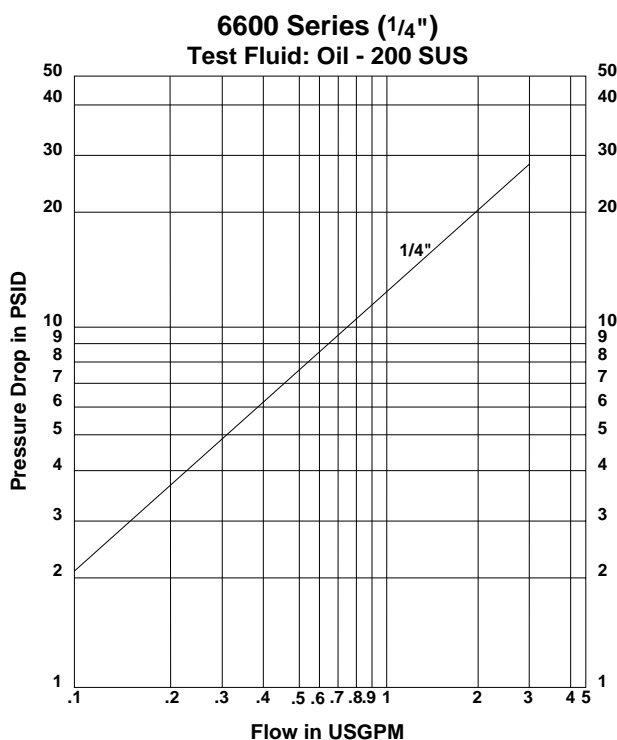
Body Size	Repair Kit Part No.	Used For Part No.
3/8	H68E-67K	H3-68
3/8	H69E-67K	H3-69



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.

Performance



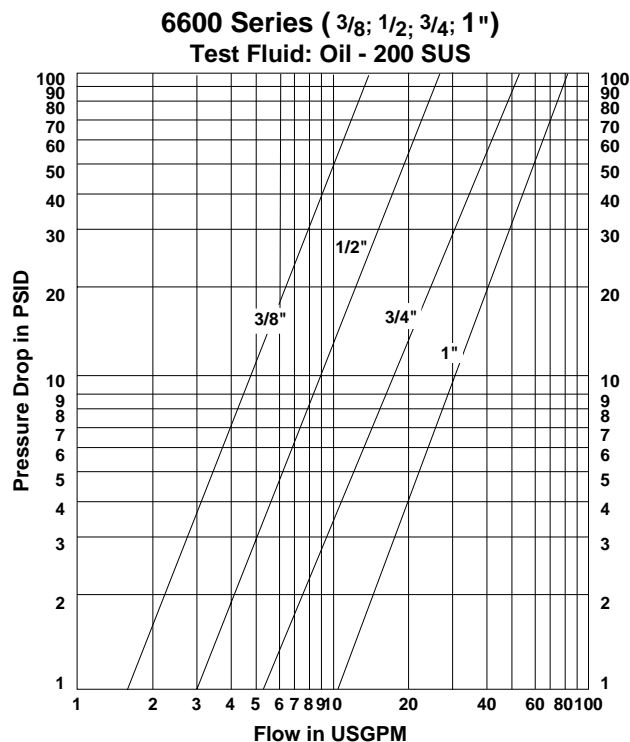
Applications

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.

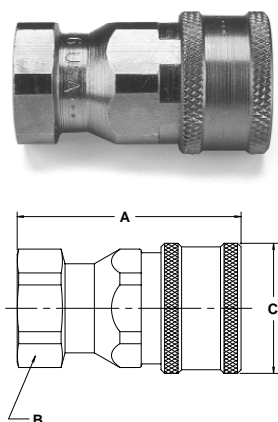
Specifications

Body Size (in.)	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				



Couplers

Female Thread

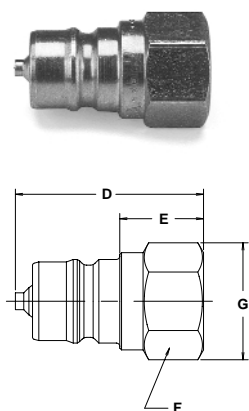


Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.)			Wt. (LB.) P/Piece
				Overall Length	Hex Size	Largest Diameter	
				A	B	C	
1/4	6601-2-4	1/8-27	—	1.85	.88	1.08	0.27
1/4	6601-4-4	1/4-18	—	1.85	.88	1.08	0.26
3/8	6601-6-6	3/8-18	—	2.18	1.06	1.27	0.39
3/8	6608-6-6	—	9/16-18	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	Overall Length	Dimensions (in.)			Wt. (LB.) P/Piece
					Exposed Length	Hex Size	Largest Diameter	
				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

Body Size (in.)	1/4	3/8	1/2	3/4	1
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



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.

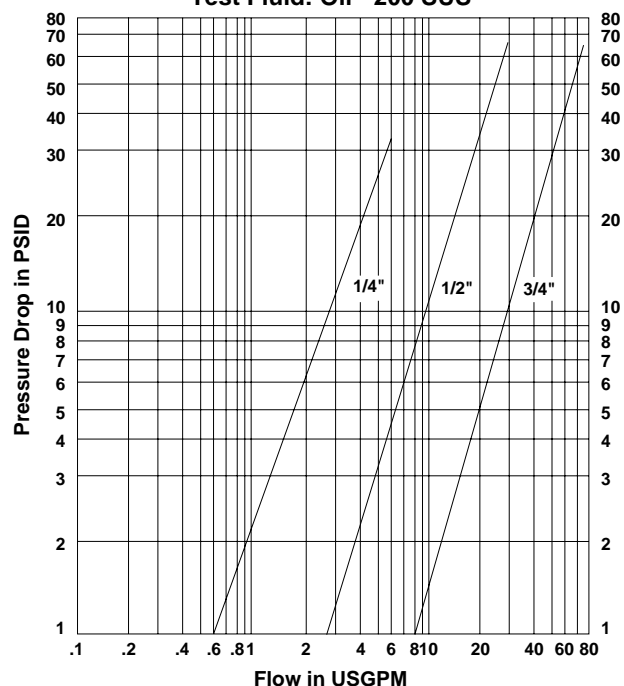
Specifications

Body Size (in.)	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		

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.

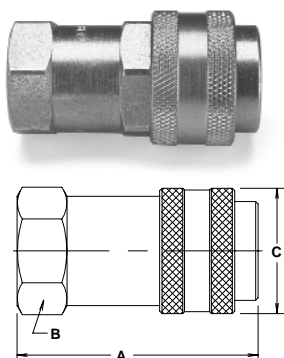
Performance

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



Couplers

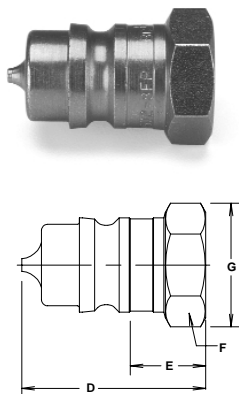
Female Thread



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Hex Size	Largest Diameter	
			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	Overall Length	Dimensions (in.)			Wt. (LB.) P/Piece
				Exposed Length	Hex Size	Largest Diameter	
			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	Flouorocarbon (Trademark of DUPONT)
E5	Ethylene Propylene (EPR)
E12	Neoprene
E47	Perfluoroelastomer (Kalrez™)

* See Ordering Information at end of Section B.



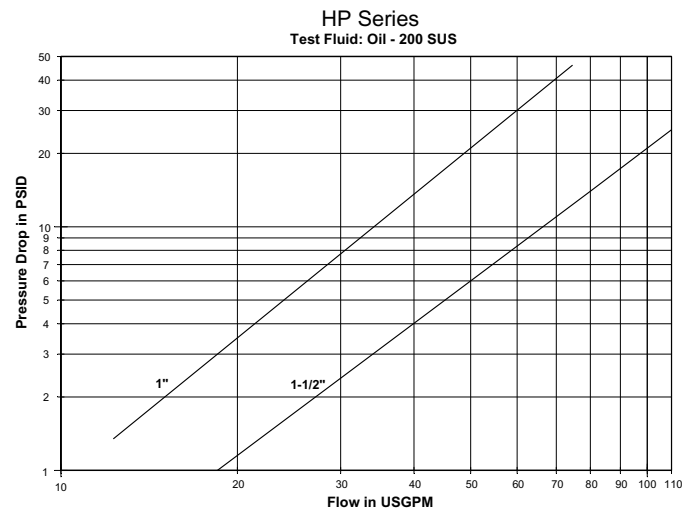
Features

- 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.

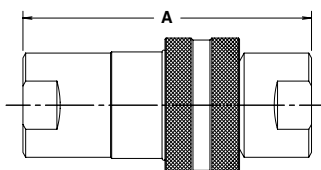
Specifications

Body Size (in.)	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

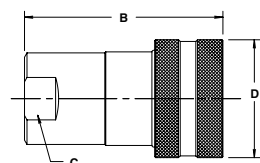
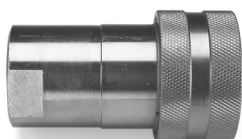


HP Coupling Connected Mode



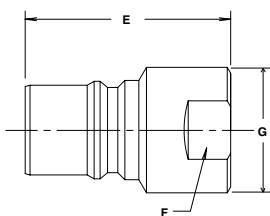
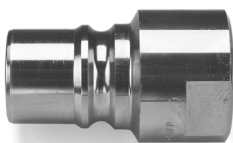
Body Size (in.)	Overall Length
A	
1	5.27
1 1/2	5.92

Couplers



Body Size (in.)	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	4.93	2.25	3.00	4.40

Nipples



Body Size (in.)	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	4.06	2.25	2.63	1.85

Dust Plugs and Caps

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



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 Compatibility 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.

Features

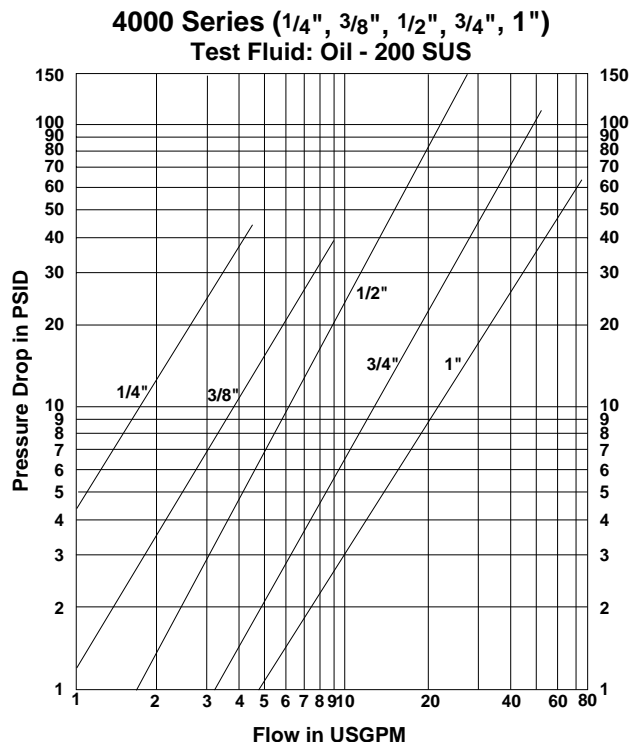
Parker 4000 Series couplings feature:

- 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.

Specifications

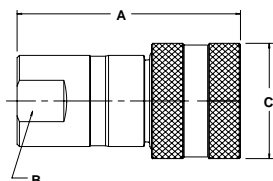
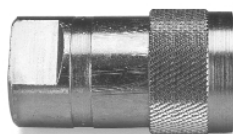
Body Size (in.)	1/4	3/8	1/2	3/4	1
Rated Pressure (PSI)	3000	3000	3000	3000	3000
Rated Flow (GPM)	3	6	12	28	50
Temperature Range (std seals)	-40° to +250°F				

Performance



Couplers

Female Thread



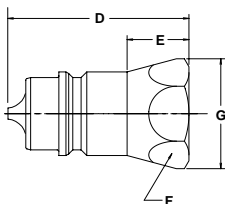
Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Overall Length	Dimensions (in.) Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
1/4	4050-2P**	1/4-18	—	2.18	0.88	1.06	0.24
1/4	4050-2P-T8M	—	3/4-16 (Male)	1.80	0.88	1.06	0.21
1/4	4050-T6	—	9/16-18	2.18	0.88	1.06	0.27
*1/4	4050P-T6	—	9/16-18	2.43	0.88	1.33	0.33
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.

** P designates Poppet style valve

Nipples

Female Thread



Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				D	E	F	G	
1/4	4010-2P**	1/4-18	—	1.52	0.84	0.75	0.87	0.08
1/4	4010-T6	—	9/16-18	1.62	0.94	0.75	0.87	0.09
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

** P designates Poppet style valve

Replacement Parts

4000 Series

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

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.

Special Order Information

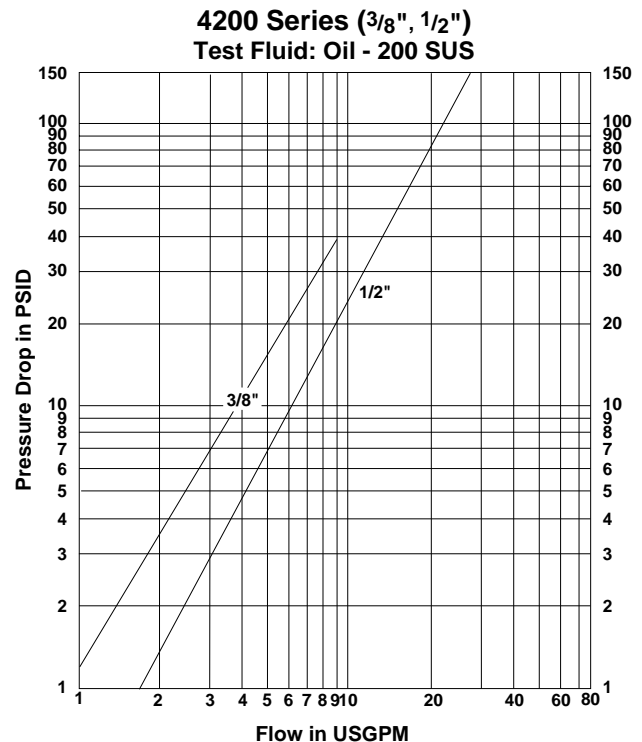
Standard seal material is Buna-N (Nitrile), other seal options are available. See Ordering Information at end of Section B and Fluid Compatibility Chart at end of this catalog for assistance in making seal selection.

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

Specifications

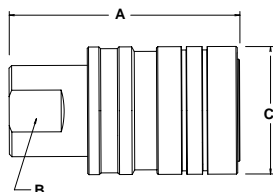
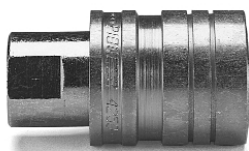
Body Size (in.)	3/8	1/2
Rated Pressure (PSI)	3000	3000
Rated Flow (GPM)	6	12
Temperature Range (std seals)	-40° to +250°F	

Performance



Couplers

Female Thread



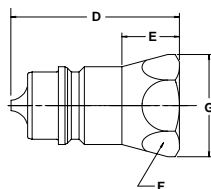
Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Overall Length	Dimensions (in.) Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
				A	B	C	
*3/8	4050-3P	3/8-18	—	2.31	0.81	1.31	0.39
*3/8	4250-3P**	3/8-18	—	2.31	0.81	1.31	0.39
*1/2	4250-4	1/2-14	—	2.68	0.94	1.50	0.55
*1/2	4250-4P**	1/2-14	—	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

* Push-to-Connect

** Poppet design

Nipples

Female Thread



Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Overall Length	Dimensions (in.) 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

** Poppet design

Replacement Parts - 4200 Series

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



Applications

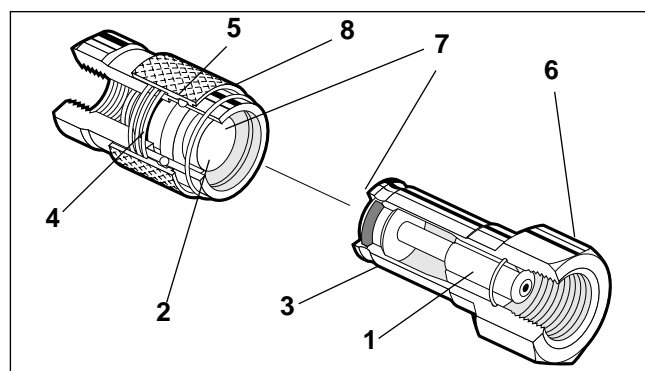
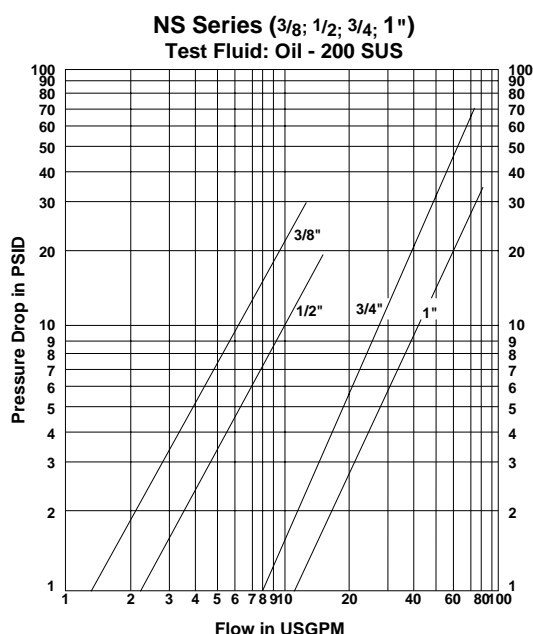
Non-Spill couplings by Parker are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change 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



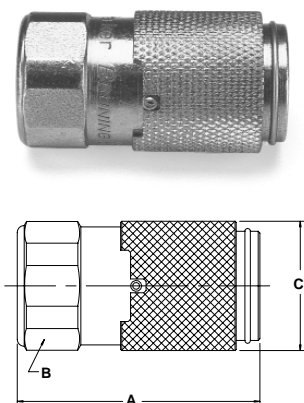
Features

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

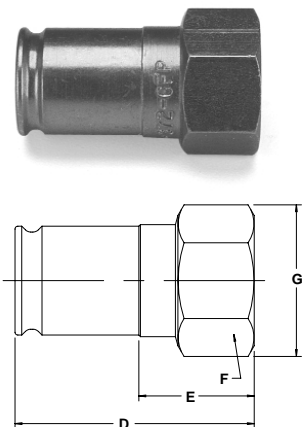
Body Size (in.)	3/8	1/2	3/4	1
Rated Pressure (PSI)	2500	2500	2500	2500
Rated Flow (GPM)	10	15	30	50
Temperature Range (std seals)	-40° to +250°F			
Spillage (ML) (max. per disconnect)	0.020	0.070	0.150	0.220
Air Incl. (ML) (max. per disconnect)	0.010	0.020	0.050	0.070

Couplers



Body Size (in.)	Part No. Steel	Thread Size	Overall Length	Dimensions (in.)			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	Overall Length	Dimensions (in.)			Wt. (LB.) P/Piece
				D	E	F	
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 NPSF	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	Fluorocarbon
E5	Ethylene Propylene (EPR)
E12	Neoprene
E47	Perfluoroelastomer (Kalrez™)

* See Ordering Information at end of Section B.

Hydraulic Quick Couplings

Non-Spill Couplings NC Series (Connect-Under-Pressure)



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

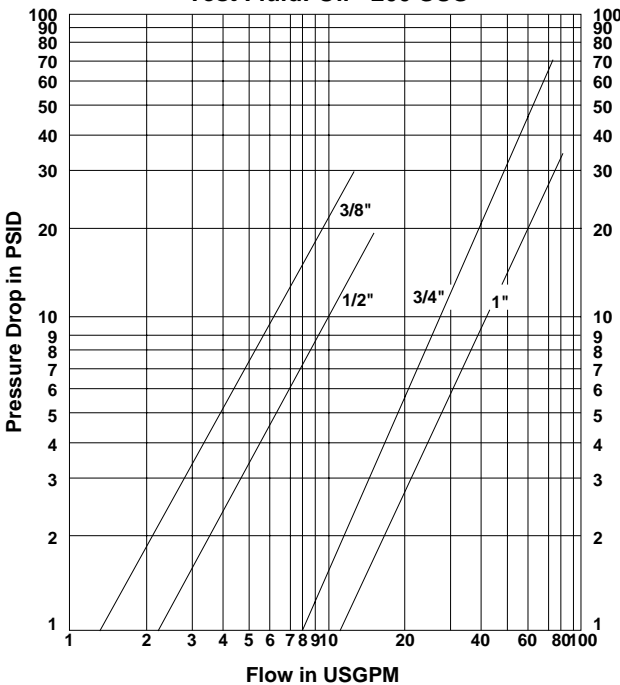
Body Size (in.)	1/2
Rated Pressure (PSI)	3000
Rated Flow (GPM)	12
Temperature Range	-40° to +250°F
Spillage (ML) (max. per disconnect)	.070
Air Inclusion (ML) (max. per connect)	.020

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.

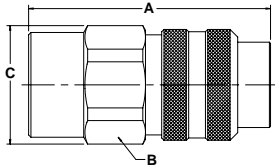
Performance:

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



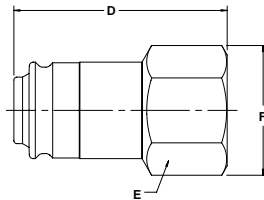
Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic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

1/2" Coupler



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

Hydraulic Quick Couplings

Non-Spill Adapters

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

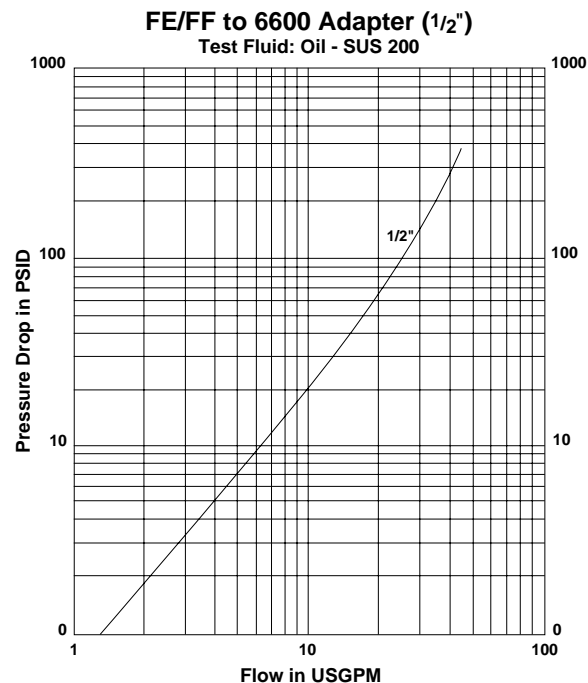
Body: Steel

Finish: Zinc plated with yellow chromate finish

Specifications

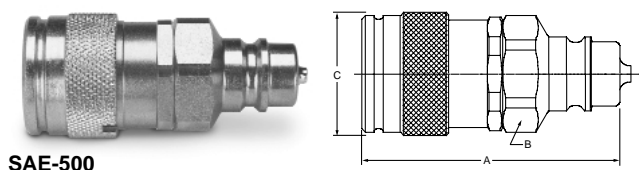
Body Size (in.)	1/2
Rated Pressure (PSI)	5000
Temperature Range	-40° to + 250°F
Rated Pressure – EAS/SAE	3625
Rated Pressure – FAS/SAF	3000
Max Spillage Per Disconnect (ml.) (Flush Face End)	.020
Max Air Inclusion Upon Connect (ml.) (Flush Face End)	.070

Performance

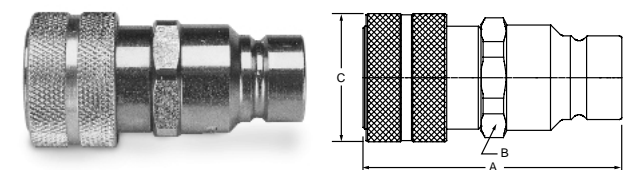


Adapters

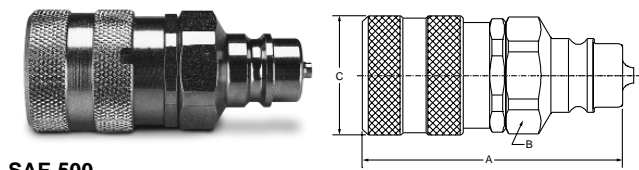
EAS-500



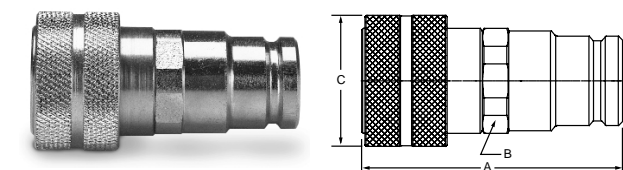
SAE-500



FAS-500



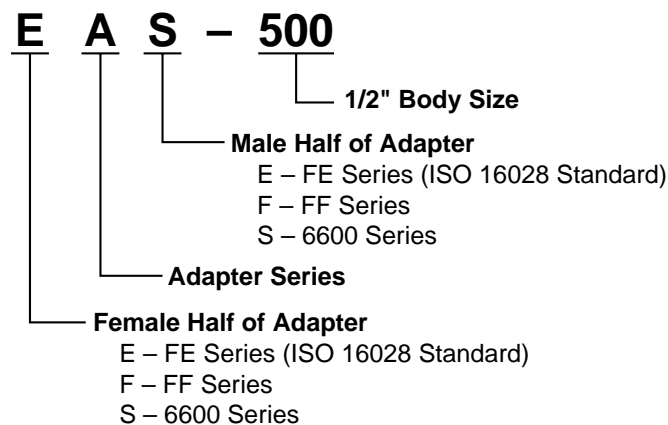
SAF-500



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





Applications

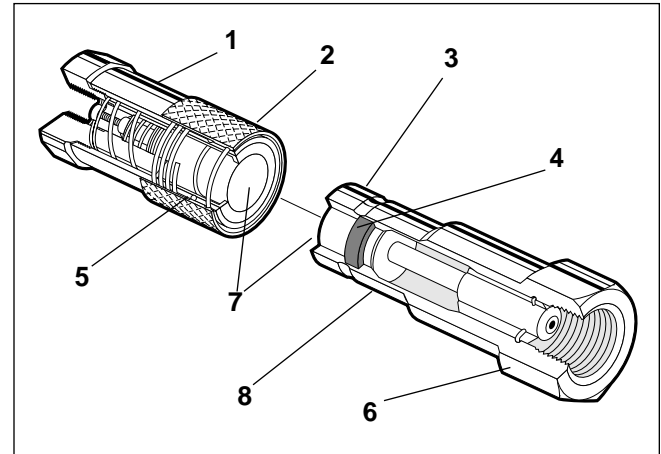
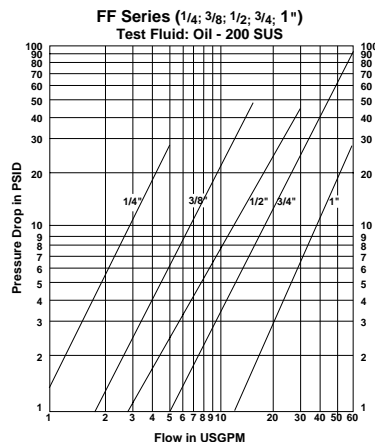
Parker FF Series couplings are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change of 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 (in.)	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



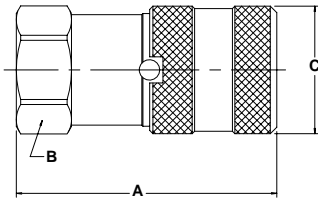
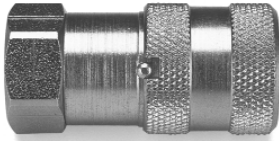
Features

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 Manufacturers 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.

Hydraulic Quick Couplings

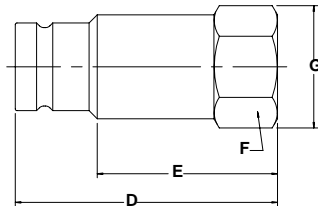
Non-Spill Couplings FF Series

Couplers



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Hex Size	Largest Diameter	
			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-251-6FO	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	2.82	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	2.89	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	3.75	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	4.24	1.87	2.25	2.68

Nipples



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)				Wt. (LB.) P/Piece
			Overall Length	Exposed Length	Hex Size	Largest Diameter	
			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-252-6FO*	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	Flouorocarbon
– E5	Ethylene Propylene (EPR)
– E12	Neoprene
– E47	Perfluoroelastomer (Kalrez™)

FF Series Repair Kits

* See Ordering Information at end of Section B.

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



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. ISO-16028 Interchange.

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 (male only)

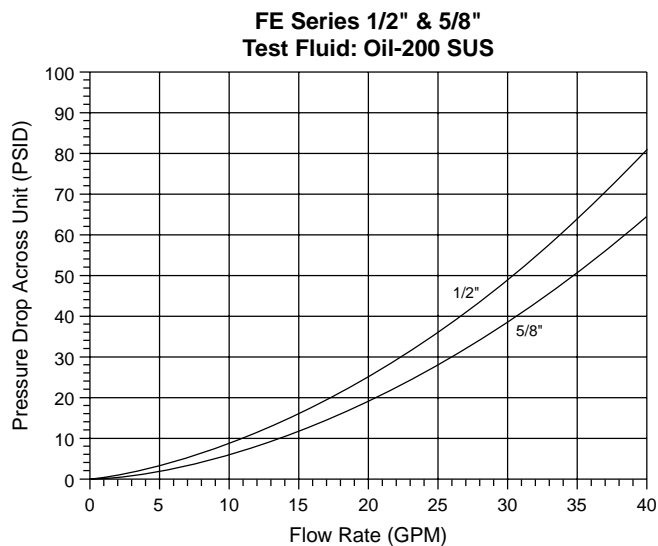
Specifications

Body Size (in.)	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

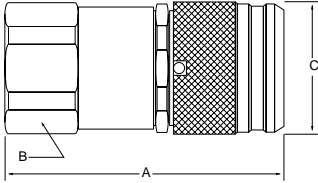
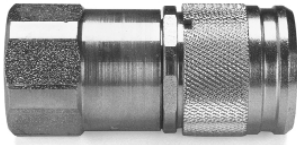
Features

- 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.

Performance



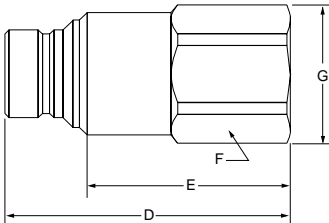
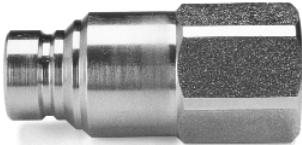
Couplers



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Hex Size	Largest Diameter	
			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-621-12FO*	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.)				Wt. (LB.) P/Piece
			Overall Length	Exposed Length	Hex Size	Largest Diameter	
			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-622-12FO	1-1/16-12 UNF	3.40	2.60	1.50	1.65	



Features

- Meets or exceeds ISO 16028 specification design and test requirements
- Wider size variations and increased pressures over FE couplers
- ISO-16028 Interface for universal interchangeability
- Modular design for increased flexibility with fitting port options
- Brinell relief on male half to increase life and resist wear
- Induction hardened locking surface to resist brinelling, damage and abuse
- Heat Treated components to resist scratches and wear
- Smooth flow path for low pressure drop
- Heavy locking collar to resist damage and abuse
- Anti-blowout Nitrile and BFT male half seal prevents damage and premature failure with residual system pressure
- Optional Color coding bands for system identification
- Crimped valve seal prevents seal washout
- Steel guide to resist damage on breaker applications
- Push-to-connect locking mechanism
- Optional sleeve lock

Specifications

Body Size (in.)	1/4	3/8	1/2	5/8	3/4	1
Rated Pressure (PSI)	4568	3625	3625	3625	3625	2900
Rated Flow (GPM)	3	6	12	20	26	50
Temperature Range (std.seals)	-40 to +250° F					
Spillage (ML) (max. per disconnect)	0.020	0.035	0.070	0.10	0.150	0.250

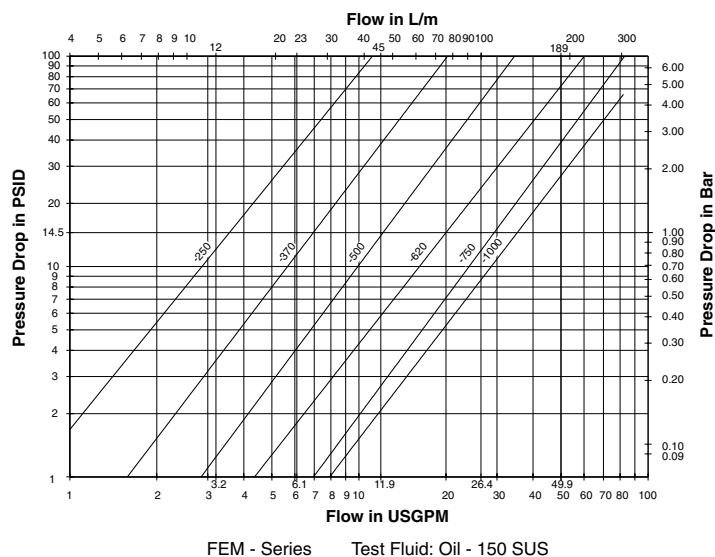
Applications

Parker FEM Series couplings are designed to meet the stringent design and pressure requirements of ISO 16028. The FEM modular design also facilitates wider variations in fitting options. Parker FEM couplers are designed for use in the construction, utility and agricultural equipment markets. As with all Parker flush-face designs the non-spill feature eliminates hydraulic spillage and air inclusion when connecting or disconnecting hydraulic attachments. The FEM Series is also ideal for many other applications where hydraulic spillage is a concern and global interchangeability with other manufacturers is important.

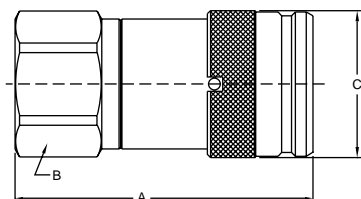
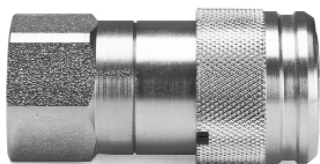
Materials of Construction

- Body:** Steel
Finish: Zinc plated with yellow chromate finish
Valve: Flush face valving
Seal: Anti blow-out NBR Nitrile with BFT seal (male only)

Performance



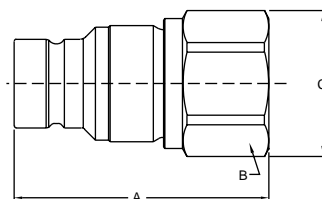
Couplers



Body Size (in.)"	Part Number*	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	FEM-251-4FP-NL	.250-18 NPSF	1.96	1.00	1.06	0.25
1/4	FEM-251-6FO-NL	.562-18 UNF	2.08	1.00	1.06	0.25
3/8	FEM-371-6FP-NL	.375-18 NPSF	2.89	1.06	1.19	0.51
3/8	FEM-371-8FO-NL	.750-16 UNF	2.89	1.06	1.19	0.51
1/2	FEM-501-8FP-NL	.500-14 NPSF	3.04	1.06	1.19	0.93
1/2	FEM-501-8FO-NL	.750-16 UNF	3.04	1.38	1.58	0.93
1/2	FEM-501-10MF-NL	.875-14 UNF	3.22	1.38	1.58	0.91
1/2	FEM-501-10BMS-NL	1.000-14 UNS	4.02	1.38	1.58	0.95
1/2	FEM-501-10BMF-NL	.875-14 UNF	4.03	1.38	1.58	0.93
1/2	FEM-501-12FO-NL	1.062-12 UN	3.24	1.38	1.58	0.93
1/2	FEM-501-12BMF-NL	1.062-12 UN	4.20	1.38	1.58	0.95
5/8	FEM-621-12FO-NL	1.062-12 UN	3.70	1.50	1.70	1.40
5/8	FEM-621-16MF-NL	1.312-12 UN	3.73	1.50	1.70	1.32
5/8	FEM-621-16BMF-NL	1.312-12 UN	4.57	1.50	1.70	1.34
3/4	FEM-751-12FP-NL	.750-14 NPSF	3.95	1.75	1.95	2.04
3/4	FEM-751-12FO-NL	1.062-12 UN	3.95	1.75	1.95	2.04
1	FEM-1001-16FP-NL	1.000-11.5 NPSF	4.21	2.00	2.25	2.70
1	FEM-1001-16FO-NL	1.312-12 UN	4.21	2.00	2.25	2.70

* Sleeve lock option available upon request. Call for pricing and availability.

Nipples



Body Size (in.)"	Part Number	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	FEM-252-4FP	.250-18 NPSF	1.71	1.00	1.06	0.17
1/4	FEM-252-6FO	.562-18 UNF	1.83	1.00	1.06	0.17
3/8	FEM-372-6FP	.375-18 NPSF	2.48	1.06	1.16	0.32
3/8	FEM-372-8FO	.750-16 UNF	2.48	1.06	1.16	0.32
1/2	FEM-502-8FP	.500-14 NPSF	2.85	1.38	1.50	0.54
1/2	FEM-502-8FO	.750-16 UNF	2.85	1.38	1.50	0.54
1/2	FEM-502-10MF	.875-14 UNF	3.04	1.38	1.50	0.52
1/2	FEM-502-10BMS	1.000-14 UNS	3.84	1.38	1.50	0.56
1/2	FEM-502-10BMF	.875-14 UNF	3.85	1.38	1.50	0.54
1/2	FEM-502-12FO	1.062-12 UN	3.05	1.38	1.50	0.54
1/2	FEM-502-12BMF	1.062-12 UN	4.02	1.38	1.50	0.56
5/8	FEM-622-12FO	1.062-12 UN	3.09	1.50	1.65	0.76
5/8	FEM-622-16MF	1.312-12 UN	3.12	1.50	1.65	0.68
5/8	FEM-622-16BMF	1.312-12 UN	3.97	1.50	1.65	0.70
3/4	FEM-752-12FP	.750-14 NPSF	3.38	1.75	1.94	1.12
3/4	FEM-752-12FO	1.062-12 UN	3.38	1.75	1.94	1.12
1	FEM-1002-16FP	1.000-11.5 NPSF	3.85	2.00	2.25	1.72
1	FEM-1002-16FO	1.312-12 UN	3.85	2.00	2.25	1.72

Standard Port Configurations

FP - Female Pipe Thread

MP - Male Pipe Thread

FO - Female Straight Thread

BMF - Bulkhead Male Flare

MF - Male Flare

BMS - Bulkhead Male Seal-lok

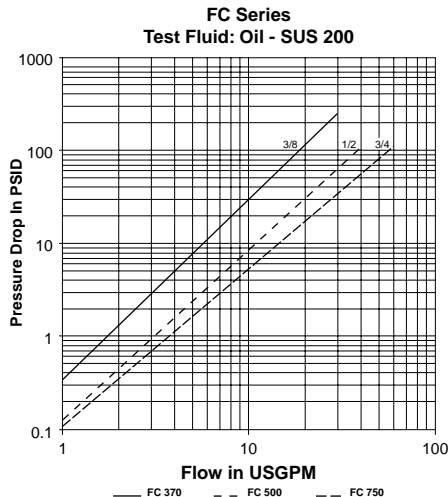
Other Fitting Port Configurations available upon request.



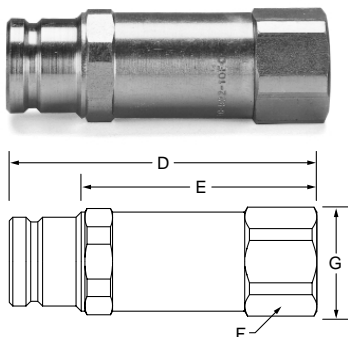
Description

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



Nipples



Body Size (in.)	Part No. Steel	Mating Half	Thread Size	Dimensions (in.)				Wt. (LB.) P/Piece
				Overall Length	Exposed Length	Hex Size	Largest Diameter	
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 NPSF	4.81	3.72	1.500	1.65	

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 (in.)	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

Hydraulic Quick Couplings

Non-Spill Couplings

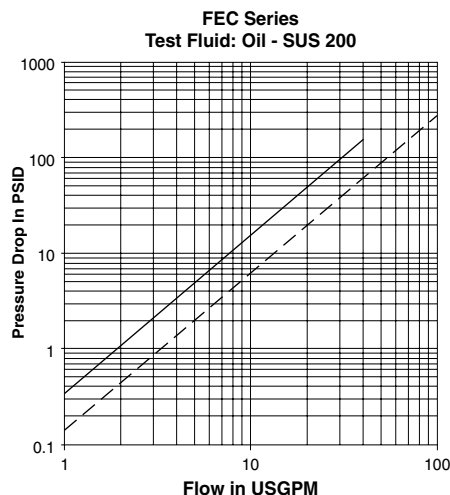
FEC Series (Connect-Under-Pressure)



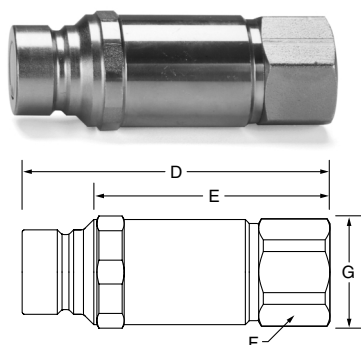
Description

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



Nipples



Body Size (in.)	Part No. Steel	Mating Half	Thread Size	Dimensions (in.)				Wt. (LB.) P/Piece
				Overall Length	Exposed Length	Hex Size	Largest Diameter	
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-502-12FO	FE-501	1 1/16-12 UNF	3.79	2.97	1.500	1.65	
3/4	FEC-752-12FO	FEM-751	1 1/16-12 UNF	4.84	3.76	1.500	1.65	

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 (in.)	1/2	3/4
Rated Pressure (PSI)	3625	3625
Rated Connect-Under-Pressure Capability	3000	1700
Rated Flow (GPM)	12	26
Spillage (ML) (max. per disconnect)	.020	.150
Air Inclusion (ML) (max. per connect)	.070	.150



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

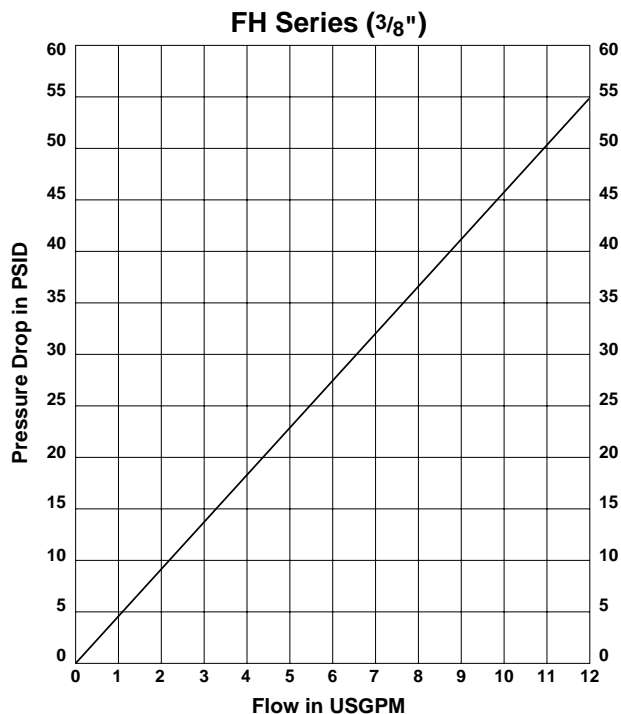
Applications

- 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.

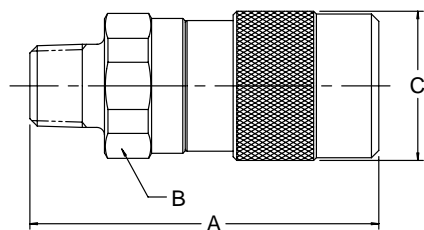
Performance



Specifications

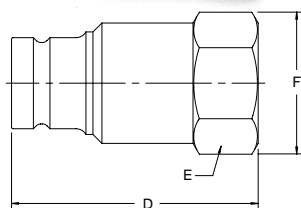
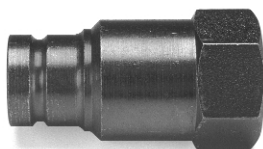
Body Size (in.)	3/8
Rated Pressure (PSI)	10,000
Rated Flow (GPM)	6
Temperature Range	-40° to +250° F
Spillage (ML) (max. per disconnect)	.020
Air Inclusion (ML) (max. per connect)	.070

Couplers



Body Size (in.)	Part No. Steel	Thread Size	Material	Dimensions (in.)			Wt. (LB.) P/Piece
				Overall Length	Wrench Flats	Largest Diameter	
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.)			Wt. (LB.) P/Piece
				Overall Length	Wrench Flats	Largest Diameter	
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 undesirable 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 (in.)	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	-20 to 400
E5	Ethylene Propylene (EPR)	-65 to 300
E1	Nitrile (Buna-N™)	-40 to 250
E47	Perfluoroelastomer (Kalrez™)	-20 to 600

*Fluorocarbon is standard seal.

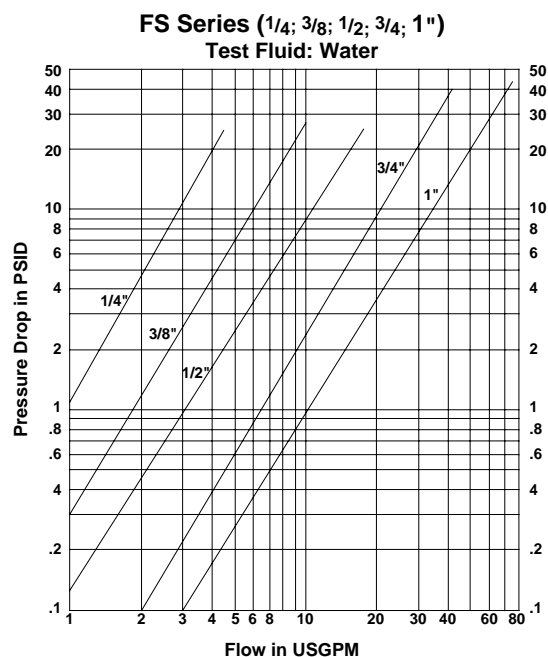
Features

- 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 seals as standard.
- Wide range of seal materials available.
- Repair kits available to replace critical elastomer seals (all sizes).
- Coupling sealing integrity is approximately 1×10^{-6} std. cm^2/sec . Helium under 50 millitorr of vacuum.

Materials of Construction

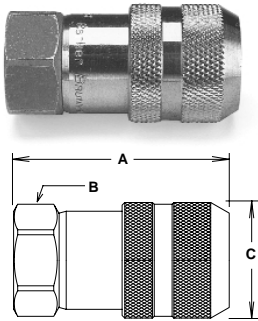
Machined Parts:	Stainless Steel, AISI type 316
Springs:	Stainless Steel, AISI type 316.
Locking Balls:	1/4" - 302 SS; 3/8" - 1" - Tungsten Carbide
Backup Washers:	Teflon™
Elastomer Seals:	Fluorocarbon is standard. Wide range is available.

Performance Flow Data

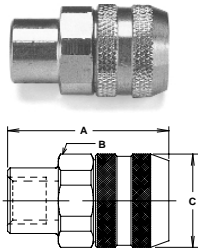


Couplers

Female Pipe Thread

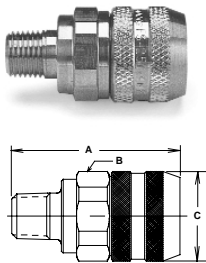


Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
3/8	FS-371-6FP	3/8-18 NPT	2.52	1.06	1.30	0.58
1/2	FS-501-8FP	1/2-14 NPT	2.74	1.38	1.58	0.92
3/4	FS-751-12FP	3/4-14 NPT	3.63	1.75	1.99	2.00
1	FS-1001-16FP	1-11 1/2 NPT	4.14	1.87	2.25	2.76



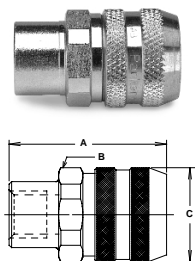
Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			A	B	C	
1/4	FS-251-4FP	1/4-18 NPT	1.79	1.00	1.06	0.25

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

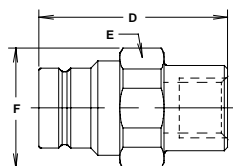
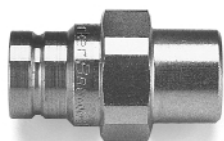
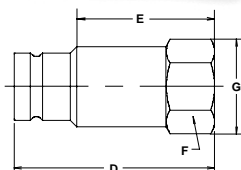
SAE Straight Thread



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	1.92	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

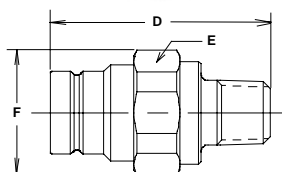
Female Pipe Thread



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	3.89	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

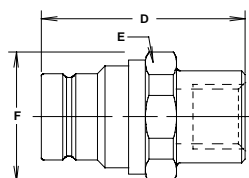
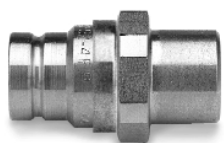
Male Pipe Thread



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	3.89	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	
TOOL Spline tool for Coupler (female half) Repair	Replacement Seals
	E5 Ethylene Propylene (EPR)
	E47 Perfluoroelastomer (Kalrez™)
	No Suffix Fluorocarbon 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-252-KIT-E47	FS-372-KIT-E5 FS-372-KIT-E47	FS-502-KIT-E5 FS-502-KIT-E47	FS-752-KIT-E5 FS-752-KIT-E47	FS-1002-KIT-E5 FS-1002-KIT-E47

Coupler Repair Kits

Size	1/4" Coupler	3/8" Coupler	1/2" Coupler	3/4" Coupler	1" Coupler
Part	FS-251-KIT	FS-371-KIT	FS-501-KIT	FS-751-KIT	FS-1001-KIT
No.	FS-251-KIT-E5 FS-251-KIT-E47 FF/FS-251-TOOL	FS-371-KIT-E5 FS-371-KIT-E47 FF/FS-371-TOOL	FS-501-KIT-E5 FS-501-KIT-E47 FS-501-TOOL	FS-751-KIT-E5 FS-751-KIT-E47 FF/FS751-TOOL	FS-1001-KIT-E5 FS-1001-KIT-E47 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 flow connect under pressure couplings are required.

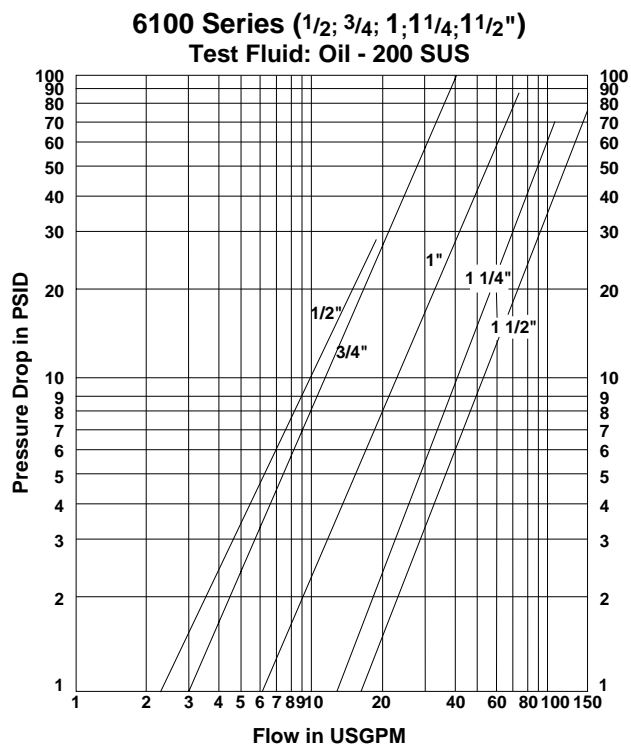
Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic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

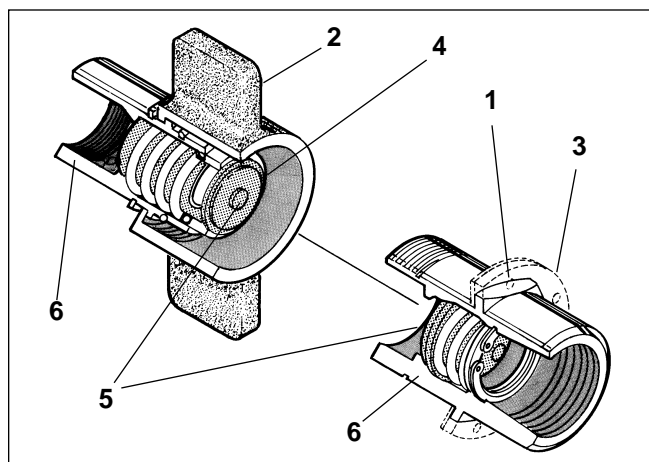
Specifications

Body Size (in.)	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



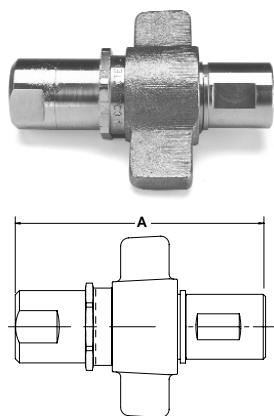


Features

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

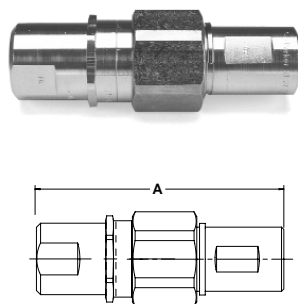


Body Size (in.)	Thread Size NPTF	Part No. With Flange	Part No. Without Flange	Overall Connected Length	Wt. (LB.) P/Piece
A					
3/4	1/2-14	6100-08	6120-08	5.20	2.12
3/4	3/4-14	6100-12	6120-12	5.20	3.27
1	1-11 1/2	6100-16	6120-16	5.99	3.19
1 1/4	1 1/4-11 1/2	6100-20	6120-20	6.33	2.73
1 1/2	1 1/2-11 1/2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

Contact division for BSPP port availability

6100 Series

Coupling with Hex Nut

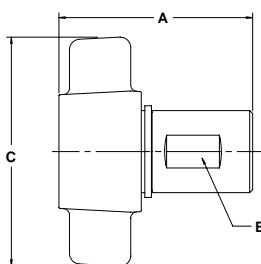


Body Size (in.)	Thread Size NPTF	Part No. With Flange	Part No. Without Flange	Overall Connected Length	Wt. (LB.) P/Piece
A					
3/4	1/2-14	6110-08	6130-08	5.20	1.89
3/4	3/4-14	6110-12	6130-12	5.20	1.83
1	1-11 1/2	6110-16	6130-16	5.99	2.93
1 1/4	1 1/4-11 1/2	6110-20	6130-20	6.33	4.12
1 1/2	1 1/2-11 1/2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

Contact division for BSPP port availability

Couplers

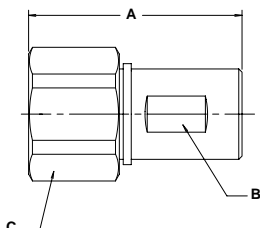
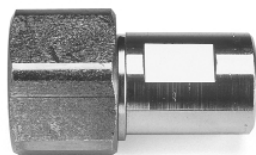
Wing Nut



Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Wrench Flats	Wing Nut	
			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

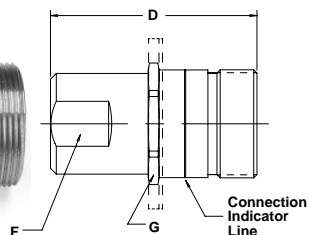
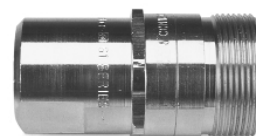
Hex Nut



Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Wrench Flats	Hex Size	
			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

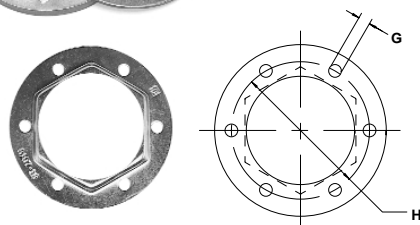
Nipples



Body Size (in.)	Part No. Without Flange Brass	With Flange Brass	Thread Size NPTF	Dimensions (in.)			Wt. (LB.) P/Piece
				Overall Length	Hex Size	Wrench Flats	
				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



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 Compatibility Chart at end of this catalog for assistance in making seal selection.

Features

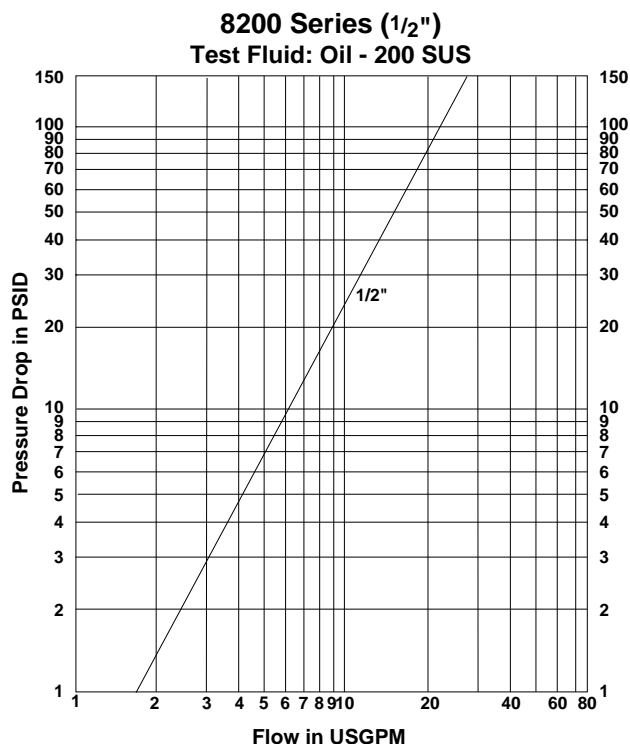
Parker 8200 Series couplings feature:

- 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

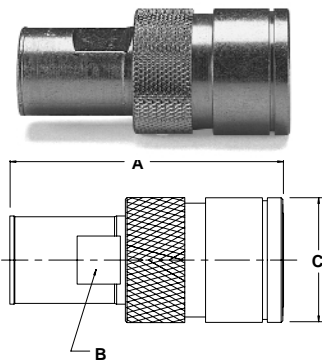
Body Size (in.)	1/2
Rated Pressure (PSI)	3000
Rated Flow (GPM)	12
Temperature Range (std seals)	-40° to +250°F

Performance



Couplers

Female Thread

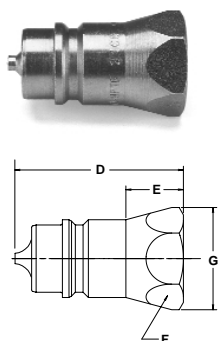


Body Size (in.)	Part No. Steel	Thread Size NPSF	Thread Size ORB	Dimensions (in.)			Wt. (LB.) P/Piece
				Overall Length	Wrench Flats	Largest Diameter	
				A	B	C	
*1/2	8250-4	1/2-14	—	3.29	0.87	1.50	0.63
*1/2	8250-15	—	3/4-16	3.29	0.87	1.50	0.6
*1/2	8250-16	—	7/8-14	3.29	0.87	1.50	0.63

* Push to connect

Nipples

Female Thread



Body Size (in.)	Part No. Steel	Thread Size NPTF	Thread Size ORB	Dimensions (in.)				Wt. (LB.) P/Piece
				Overall Length	Exposed Length	Hex Size	Largest Diameter	
				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

** Poppet design

Replacement Parts - 8200 Series

Body Size (in.)	Part Number	Description	Material
1/2	50005-211-0202	Q-Ring	Buna-N

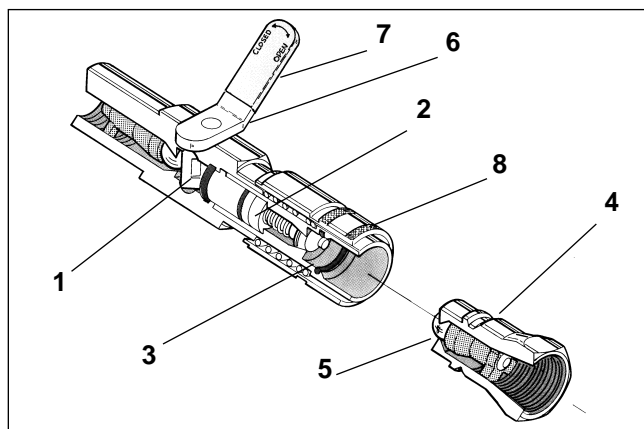
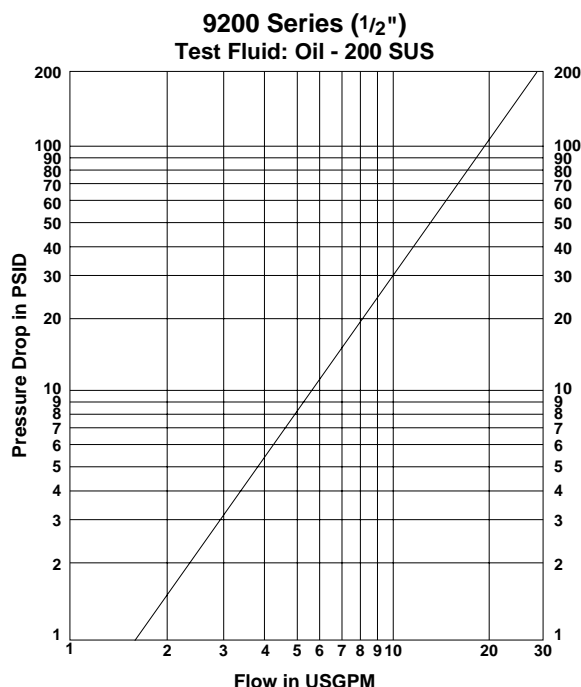


Applications

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



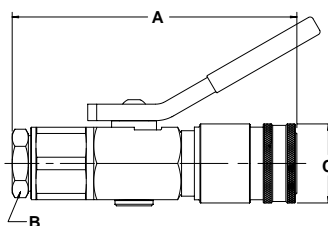
Features

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

Couplers

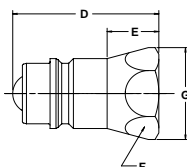


Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimensions (in.)		Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piece
			ORB					
					A	B	C	
*1/2	9250-4-320	1/2-14	—		5.37	1.13	1.50	2.02
*1/2	9250-6-320	—	9/16-18		5.37	1.13	1.50	2.04
*1/2	9250-15-320	—	3/4-16		5.37	1.13	1.50	2.06
*1/2	9250-16-320	—	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.)		Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				ORB					
					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 (in.)	1/2
O-Rings - Buna N	2-211N0552-90

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

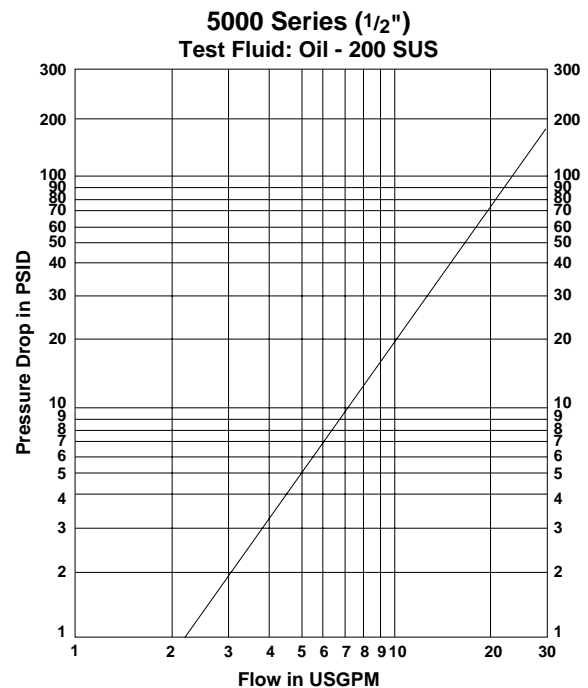
The Parker 5000 Series is an economical coupling that is a threaded union and can be connected under pressure with tools. For applications that require a coupling to be connected under-pressure and where tools can be used to make the connection, the 5000 Series coupling should be considered.

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.

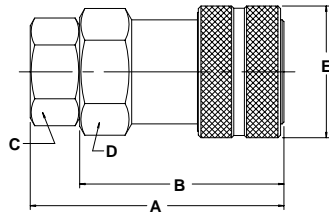
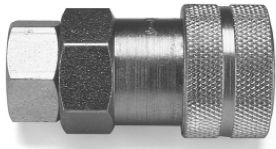
Specifications

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

Performance

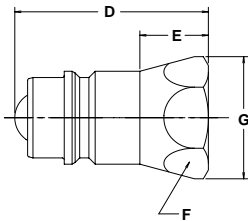


Coupler



Body Size (in.)	Part No. Steel	Thread Size NPTF	Overall Length	Length	Dimensions (in.) 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

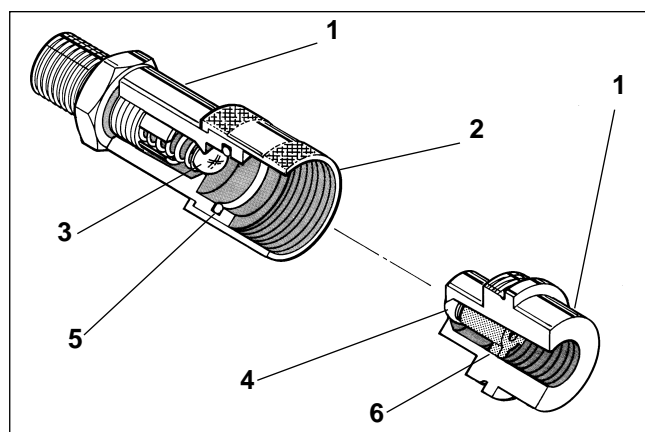


Body Size (in.)	Part No. Steel	Thread Size NPTF	Dimension (in.) Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/2	8010-4	1/2-14	1.95	1.09	1.06	1.23	0.20

Replacement Parts

5000 Series

Body Size (in.)	1/2
O-Rings - Buna N	2-211N0552-90



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

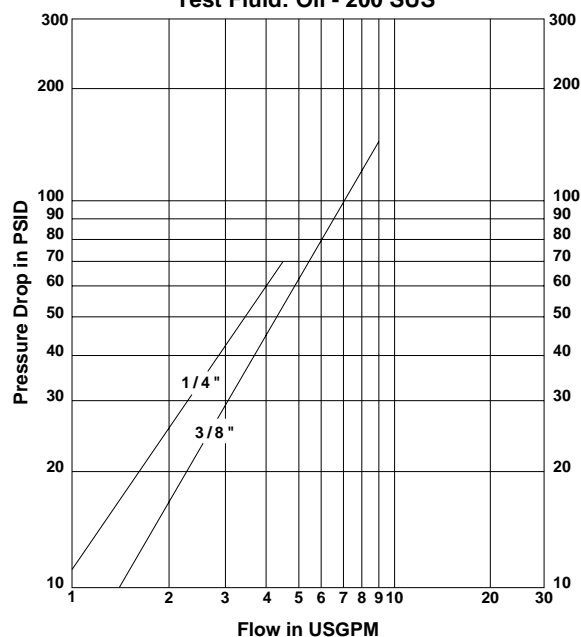
Body Size (in.)	1/4	3/8
Rated Pressure (PSI) Static	10,000	
Rated Flow (GPM)	3	6
Temperature Range (std seals)	-65° to +180°F	

Features

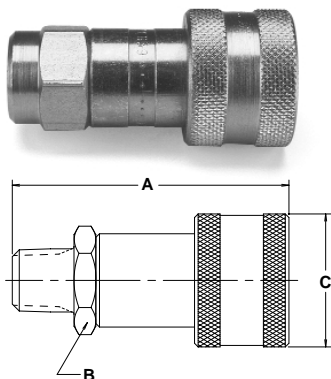
1. Machined from solid steel barstock for durability.
2. The 3000 Series employs a threaded sleeve locking mechanism, mates with matching male threads on the nipple. The two halves must be manually threaded together for connection.
3. Hard, chrome alloy balls are used for valving. They are spring loaded 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

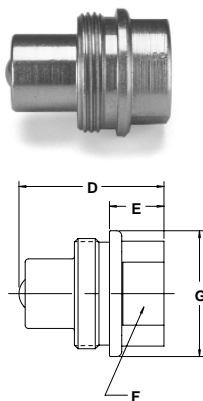


Couplers



Body Size (in.)	Part No.	Thread Size NPTF	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Wrench Flats	Largest Diameter	
			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



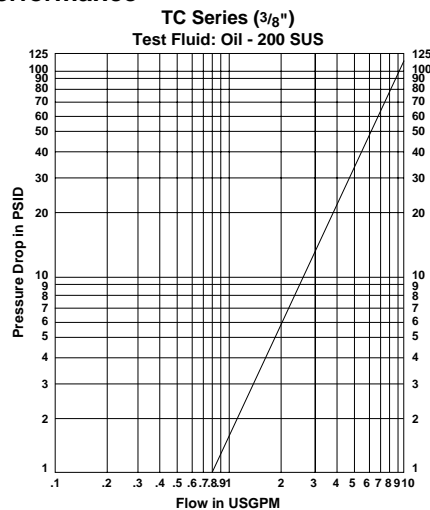
Body Size (in.)	Part No. Steel	Thread Size NPTF	Overall Length	Dimensions (in.)			Wt. (LB.) P/Piece
				Expose Length	Hex Size	Largest Diameter	
			D	E	F	G	
1/4	3010-2	1/4-18	1.29	0.48	0.75	1.13	0.14
3/8	3010-3	3/8-18	1.58	0.50	0.94	1.25	0.23
3/8	3010-3-230	3/8-18	2.31	1.23	1.00	1.25	0.30



Specifications

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

Performance



Features

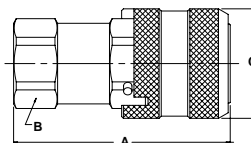
- Positive valve stop. The perch maintains valve alignment and provides metal to metal valve stop to insure that the valves open full—every time.
- Precision machined valves with elastomeric seals provide for positive shut-off upon disconnection.
- Hardened nipples and sleeves and solid barstock construction 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 Fluorocarbon 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.

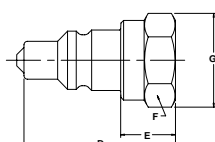
Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic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

Coupler



Body Size (in.)	Part No.	Fitting Thread Size	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Hex Size	Largest Diameter	
			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	Overall Length	Dimensions (in.)			Wt. (LB.) P/Piece
				Exposed Length	Hex Size	Largest Diameter	
			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

Features

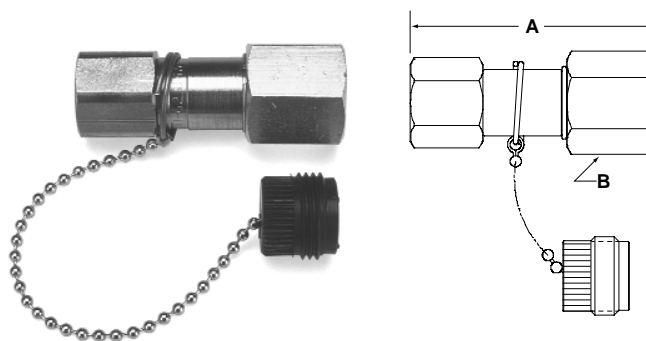
- 303 Stainless steel body.
- Brass locking sleeve
- Polyurethane seals to resist extrusion and abrasion.
- Self locking threads help prevent adapter or sleeve from being loosened by vibrations.
- Visual makeup – when fully coupled the edge of the sleeve will be flush with the end of the male thread – 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 (in.)	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.

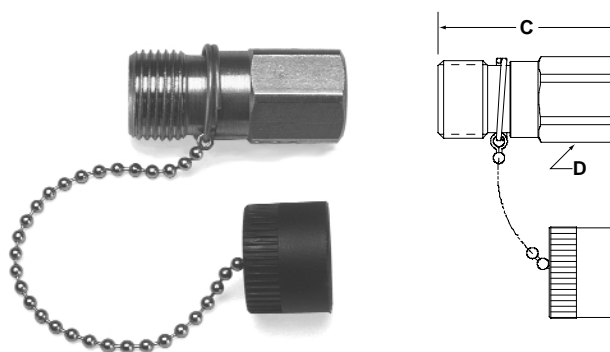
Coupler

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



Hydraulic Quick Couplings



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.

Mold Coolant Line Couplings

Moldmate Series

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. Fluorocarbon seals are available for use only with oil-based media and not with water glycol. To specify a Fluorocarbon seal, add the suffix "Y" to the standard moldmate part number, thus: PC206Y.

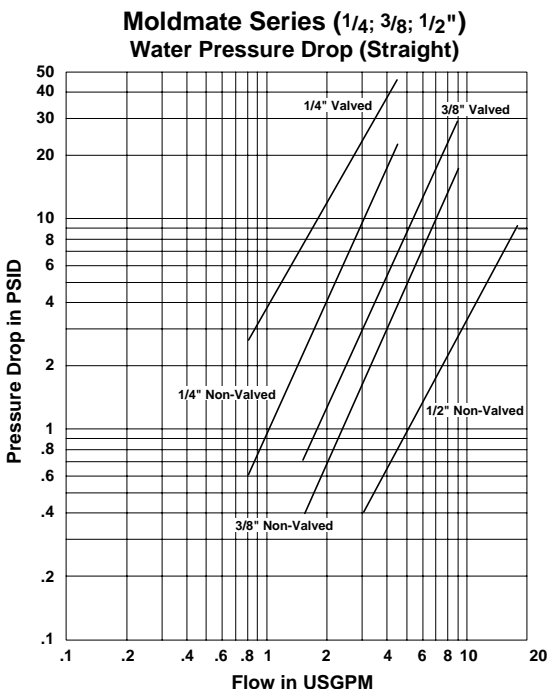
Specifications

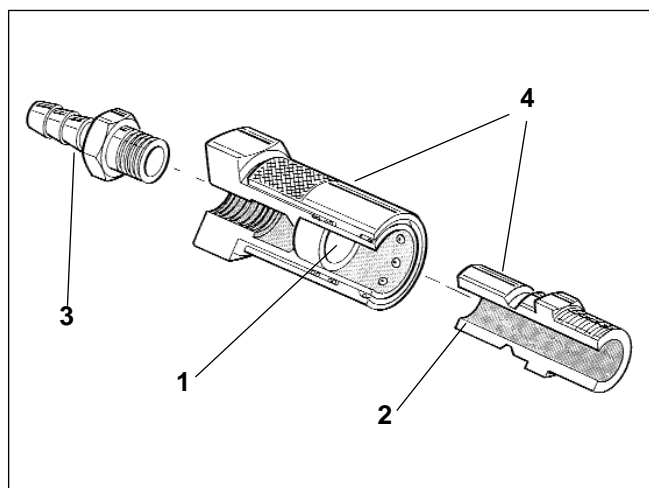
Body Size (in.)	1/4	3/8	1/2
Rated Pressure (PSI)	200	200	200
Rated Flow (GPM)	3	6	12

Material	Temperature Range
Standard Silicone seal	-90° to +400°F
*Optional Fluorocarbon seal	-20° to +400°F

* For use with oil based media only

Performance



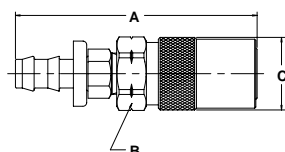
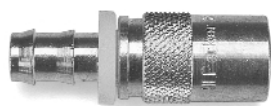


Features

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 a valved 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 Fluorocarbon 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.
5. Silver sleeve designates valved coupler.

Couplers

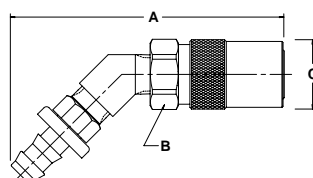
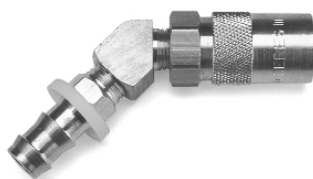
Straight



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.

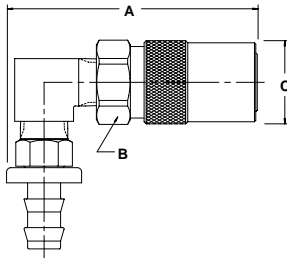
Valved Couplers can be used with either non-valved or valved nipples.

Hydraulic Quick Couplings

Mold Coolant Line Couplings

Moldmate Series

90 Degree



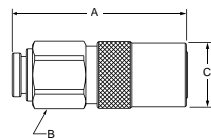
Body Size (in.)	Part No. Brass Non-valved	Wt. (LB.) P/Piece	Part No. Brass Valved	Wt. (LB.) P/Piece	Hose I.D.	Overall Length	Hex Size	Largest Diameter	Dimensions (in.) Overall Length	Hex Size	Largest Diameter
						Non-valved			Valved		
						A	B	C	A	B	C
1/4	PC214	0.13	PC214AV	0.14	1/4	1.78	0.56	0.71	1.98	0.56	0.71
1/4	PC214-BP*	0.14	PC214AV-BP	0.14	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.

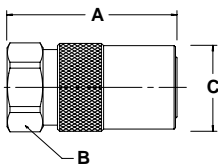
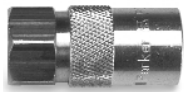
Presto Cartridges



Body Size (in.)	Part No. Brass For No-valving	Wt. (LB.) P/Piece	Part No. Brass For Valving	Wt. (LB.) P/Piece	Tube Size	Overall Length	Hex Size	Largest Diameter	Dimensions (in.) Overall Length	Hex Size	Largest Diameter
						Non-valved			Valved		
						A	B	C	A	B	C
1/4	PC204-P	0.13	PC204AV-P	0.14	1/4	1.78	0.56	0.71	1.78	0.56	0.71
3/8	PC306-P	0.31	PC306AV-P	0.31	3/8	2.51	0.88	0.96	1.51	0.88	0.96

Colored buttons available.

Sub Assemblies



Body Size (in.)	Part No. Brass For No-valving	Wt. (LB.) P/Piece	Part No. Brass For Valving	Wt. (LB.) P/Piece	Thread Size NPTF	Overall Length	Hex Size	Largest Diameter	Dimensions (in.) 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 separately.

Assembly instructions 9090065 available.

Valves

Body Size (in.)	Part No.	Material
1/4	3613001	Brass
3/8	P300-11S	Brass

Valve Springs

Body Size (in.)	Part No.	Material
1/4	7820123	Stainless
3/8	P300-6	Stainless

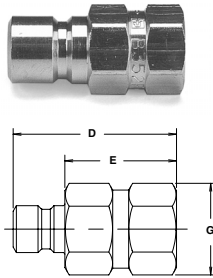
Replacement Seals

Seal Material	1/4	Body Size (in.) 3/8	1/2
* Silicone	P200-9A	P300-9A	P500-9A
* Fluorocarbon	P200-9AY	P300-9AY	—

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

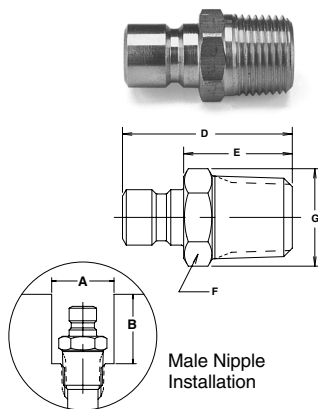
Nipples

Female Pipe Thread



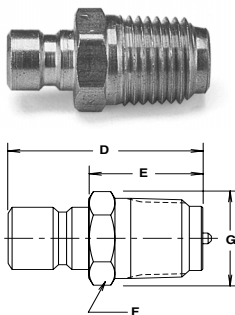
Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece Brass	Part No. Steel	Wt. (LB.) P/Piece Steel	Thread Size NPTF	Dimensions (in.)			
						Overall Length	**Exposed Length	Hex Size	Largest Diameter
						D	E	F	G
1/4	BPN251F	0.02	PN251F	0.02	1/8-27	0.97	0.58	0.50	0.58
1/4	BPN252F	0.05	PN252F	0.04	1/4-18	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



Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece Brass	Part No. Steel	Wt. (LB.) P/Piece Steel	Thread Size NPTF	Dimensions (in.)				Installation	
						Overall Length	**Exposed Length	Hex Size	Largest Dia.	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	0.16	NA	—	3/4-14	1.75	0.99	1.06	1.23	1.50	1.56

Valved Nipple

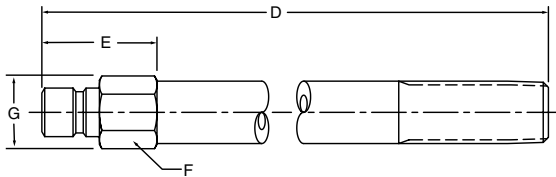


Body Size (in.)	Part No. Brass	Thread Size NPTF	Overall Length	Dimensions (in.)			Installation		Wt. (LB.) P/Piece
				**Exposed Length	Hex Size	Largest Dia.	Recess Dia.	Depth	
			D	E	F	G	A	B	
1/4	BPV252*	1/4-18	1.21	0.82	.56	0.67	0.84	0.94	0.03
3/8	BPV353*	3/8-18	1.48	0.88	.69	0.79	1.00	1.23	0.07

*Valved Nipple must be used with Valved Coupler.

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

Moldmate Extension Nipples



Body Size (in.)	Part No. Brass	Thread Size NPTF	Overall Length	Dimensions (in.)				Wt. (LB.) P/Piece
				D	E	F	G	
1/4	PN250-25	1/16-27	2.50	.69	3/8	0.43	0.04	
1/4	PN250-40	1/16-27	4.00	.81	3/8	0.43	0.06	
1/4	PN250-55	1/16-27	5.50	.81	3/8	0.43	0.09	
1/4	PN251-25	1/8-27	2.50	.69	7/16	0.51	0.06	
1/4	PN251-40	1/8-27	4.00	1.00	7/16	0.51	0.10	
1/4	PN251-55	1/8-27	5.50	1.00	7/16	0.51	0.13	
1/4	PN251-70	1/8-27	7.00	1.00	7/16	0.51	0.17	
1/4	PN251-85	1/8-27	8.50	1.00	7/16	0.51	0.21	
1/4	PN252-25	1/4-18	2.50	.88	9/16	0.65	0.09	
1/4	PN252-40	1/4-18	4.00	1.25	9/16	0.65	0.15	
1/4	PN252-55	1/4-18	5.50	1.25	9/16	0.65	0.22	
1/4	PN252-70	1/4-18	7.00	1.25	9/16	0.65	0.27	
1/4	PN252-85	1/4-18	8.50	1.25	9/16	0.65	0.33	
3/8	PN351-25	1/8-27	2.50	.88	9/16	0.65	0.07	
3/8	PN351-40	1/8-27	4.00	1.00	9/16	0.65	0.11	
3/8	PN351-55	1/8-27	5.50	1.00	9/16	0.65	0.15	
3/8	PN351-70	1/8-27	7.00	1.00	9/16	0.65	0.18	
3/8	PN351-85	1/8-27	8.50	1.00	9/16	0.65	0.22	
3/8	PN352-25	1/4-18	2.50	.88	9/16	0.65	0.09	
3/8	PN352-40	1/4-18	4.00	1.25	9/16	0.65	0.15	
3/8	PN352-55	1/4-18	5.50	1.25	9/16	0.65	0.21	
3/8	PN352-70	1/4-18	7.00	1.25	9/16	0.65	0.27	
3/8	PN352-85	1/4-18	8.50	1.25	9/16	0.65	0.33	
3/8	PN353-25	3/8-18	2.50	1.00	11/16	0.79	0.12	
3/8	PN353-40	3/8-18	4.00	1.25	11/16	0.79	0.20	
3/8	PN353-55	3/8-18	5.50	1.25	11/16	0.79	0.28	
3/8	PN353-70	3/8-18	7.00	1.25	11/16	0.79	0.37	
3/8	PN353-85	3/8-18	8.50	1.25	11/16	0.79	0.45	



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.

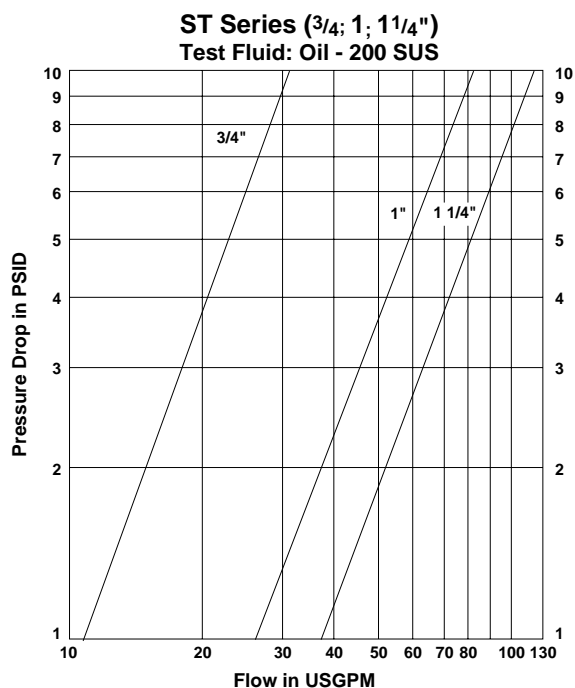
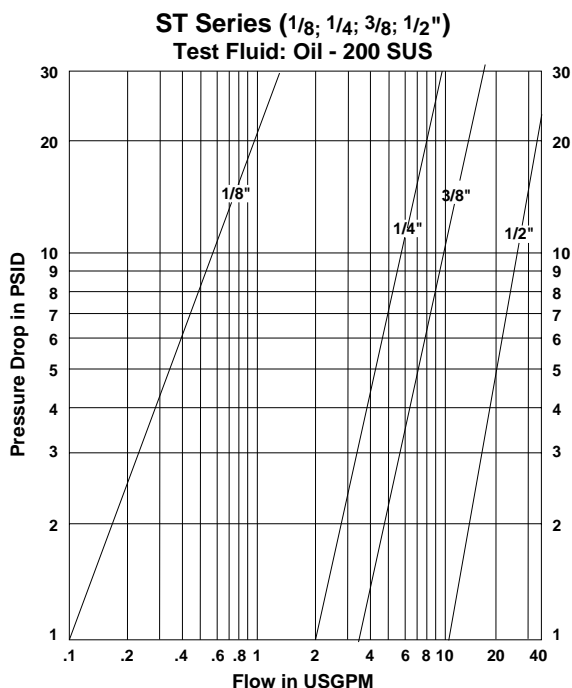
Special Order Information

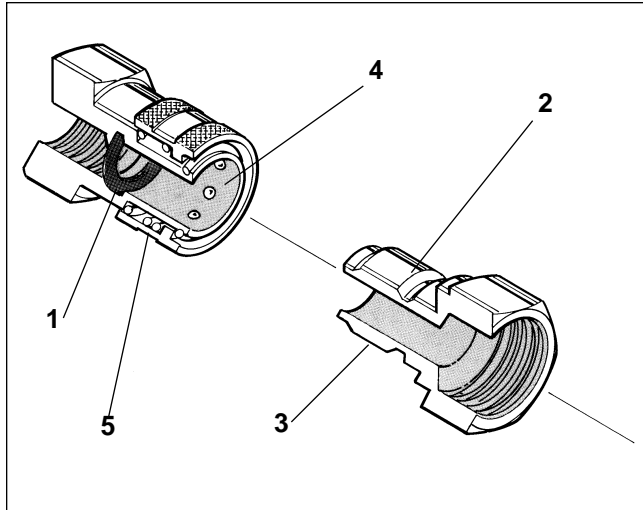
All sizes of ST Series can be furnished with locking sleeves. Place suffix letters "SL" (Sleeve-Lok) after regular catalog numbers. Example: SST-4MSL. Standard seal material is Buna-N (Nitrile). Ethylene Propylene, Fluorocarbon, or Neoprene seals are available upon request. See Fluid Compatibility Chart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

Specifications

Body Size (in.)	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2
Rated Pressure (PSI)								
Brass Cplr/Npl	2500	5200	2700	2200	1700	1200	1700	1400
Steel Cplr/Npl	2600	5500	3500	2700	2700	2000	—	—
SS Cplr/Npl	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



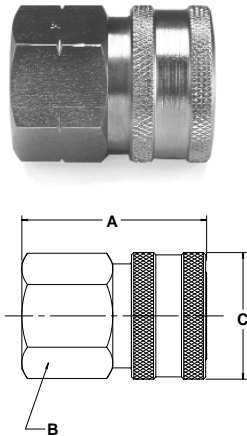


Features

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

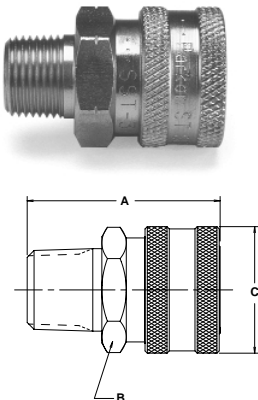
Female Pipe Thread



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

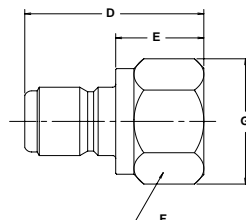
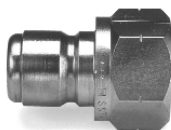
Hydraulic Quick Couplings

High Flow Couplings

ST Series

Nipples

Female Pipe Thread

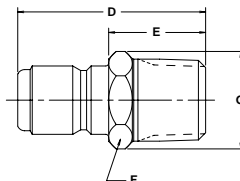


Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Dimensions (in.)			
								Overall Length	Exposed Length	Hex Size	Largest Dia.
								D	E	F	G
1/8	BST-N1	0.03	ST-N1	0.03	SST-N1	0.02	1/8-27	.98	0.57	0.56	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	0.96	—	—	—	—	1 1/4-11 1/2	2.85	1.60	1.88	2.17
1 1/2	BST-N12M	1.46	—	—	—	—	1 1/2-11 1/2	3.25	1.59	2.13	2.45

Contact division for BSPT port availability

Replacement Parts

ST Series

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

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

* Other compounds available are ethylene Propylene EO893-80, Fluorocarbon V0884-75, Neoprene C0557-70. To order change compound number.
Example: BST-1Y (Fluorocarbon) = 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.

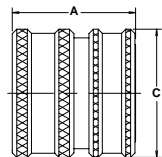
Specifications

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

Features

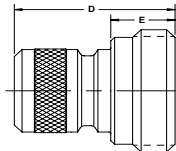
- Brass and stainless steel construction for heavy duty service.
- Durable 4-ball locking mechanism for secure connections.
- Quality, temperature-resistant nitrile seals for a leak-free service life.

Coupler



Body Size (in.)	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 (in.)	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



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 backup washer (female half only)

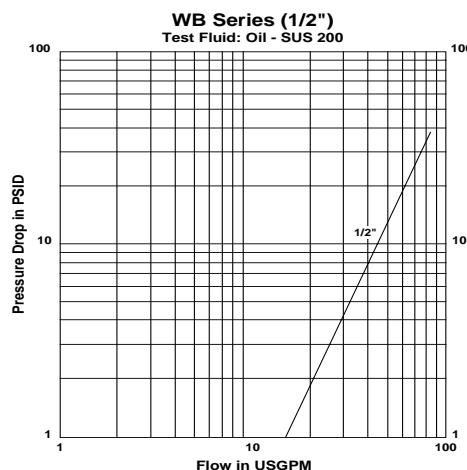
Specifications

Body Size (in.)	1/2
Max Operating Pressure (PSI)	10,000
Rated Flow (GPM)	45
Temperature Range (std seals)	-40° to +250°F

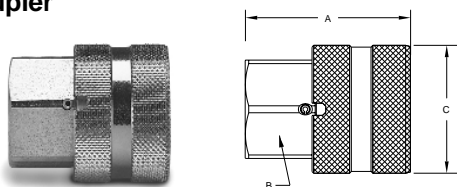
Features

- 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.
- Polymyte backup washer ensures sealing integrity at high pressure.
- Heat treated components to reduce wear and brinelling.
- Sleeve guard prevents accidental disconnect and protects the opening between the sleeve and the body from the environment.

Performance

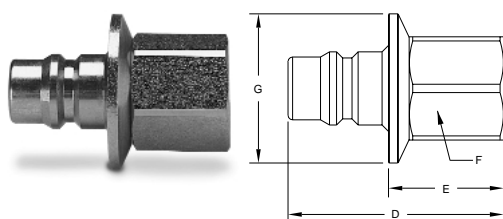


Coupler



Body Size (in.)	Part Number	Thread Size	Overall Length	Hex Size	Largest Diameter
			A	B	C
1/2	WB-501-8FP	1/2-14 NPTF	2.20	1.25	1.62

Nipple



Body Size (in.)	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	1.12	1.62

Applications

HO Series couplings are used in a wide variety of applications. HO couplings are used in refineries, petrochemical 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.

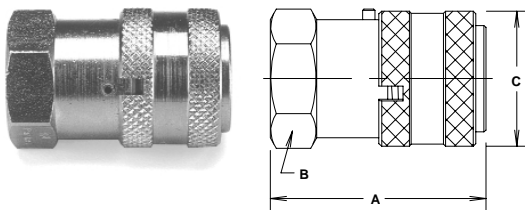
Specifications

Body Size (in.)	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

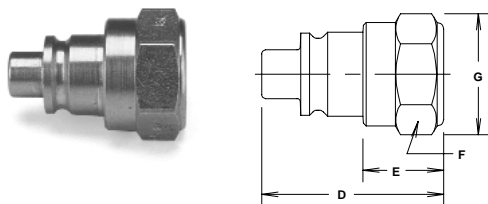
- For high pressure applications: working pressures to 15,000 PSI (1,050 Bar) for the 1/4" and 3/8" sizes; to 10,000 PSI (700 Bar) for the 1/2" size.
- No internal valving to restrict flow.
- Made of steel with electroless nickel plating for corrosion resistance.
- Standard sleeve-lock feature which 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.)				Wt. (LB.) P/Piece
			Overall Length	Hex Size	Largest Diameter		
			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.)				Wt. (LB.) P/Piece
			Overall Length	Exposed Length	Hex Size	Largest Diameter	
			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

Hydraulic Quick Couplings

Dust Plugs and Dust Caps

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. Rubber	Dust Cap Part No. Aluminum	Dust Cap Part No. Rubber
1/8	H1-65	H1-65M	H1-66	H1-66M
1/4	H2-65	H2-65M	H2-66	H2-66M
3/8	H3-65	H3-65M	H3-66	H3-66M
1/2	H4-65	H4-65M	H4-66	H4-66M
3/4	H6-65	H6-65M	H6-66	H6-66M
1	H8-65	H8-65M	H8-66	H8-66M
1 1/2	H12-65	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

Hydraulic Quick Couplings

Dust Plugs and Dust Caps

HP Series

Body Size (in.)	Dust Plug Part Number Rubber	Dust Cap Part No. Rubber
1	HPP-100	HPC-100
1 1/2	HPP-150	HPC-150

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 NR-752 is used for the female half.

FF Series, FC 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

FE Series, FEC Series, FEM Series



Body Size (in.)	Dust Plug Part Number Rubber	Dust Cap Part No. Rubber
1/4	-	-
3/8	NR-50	NR-37
1/2	FR-501	FR-502
3/4	FR-751	FR-752
1	-	-

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

Hydraulic Quick Couplings

Dust Plugs and Dust Caps

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

Hydraulic Quick Couplings

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.

Ordering Information

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	Flouro-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)

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



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

