



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 Chromium-6 Free plated steel, brass, 303 stainless steel, and 316 stainless steel. Brass couplings have double O-Ring seals and stainless locking balls.

Standard seal material is 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 Chromium-6 Free plated. To specify a heavy duty nipple, add the prefix “HD” to the steel part number; thus: HD-H2-63.

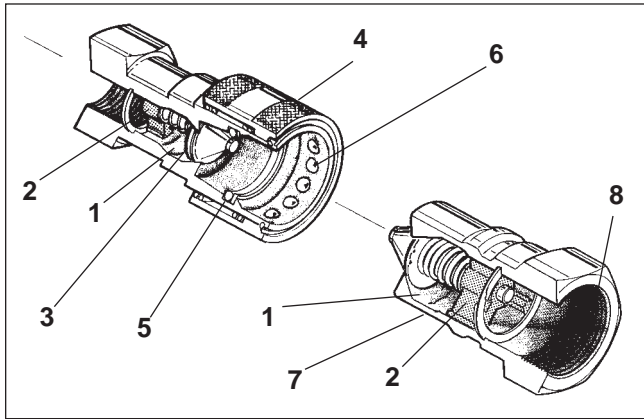
Note

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

Industry Standard: Parker 60 Series couplings comply with ISO 7241 Series B Standard.																
ANSI/ISO Pressure Rating: Dynamic applications with normal to moderate hydraulic shocks such as general industrial equipment, hydraulic presses, agricultural equipment, etc. Impulse tested at a multiple (125% to 133%) of rated pressure.									Low Cycle, Non-pulsating Pressure Rating: Applications with lower cycle life and no severe cyclic pressure fluctuations, essentially steady pressure during an operating cycle. Typical applications include hydraulic jacks, mine roof support systems, and high pressure fluid transfer (pumping water or slurry in oil wells). Minor pump ripple is considered non-pulsating. Impulse tested at rated pressure.							
Body Size (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
Seal Temperature Range: Nitrile: -40°F to +250°F (Standard seal for Brass, Steel, & 303 Stainless Steel couplings). Fluorocarbon: -15°F to +400°F (Standard seal for 316 Stainless Steel couplings). Other Seal materials: Contact the Division for availability.																
Vacuum Data: 27.4 inches Hg. 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



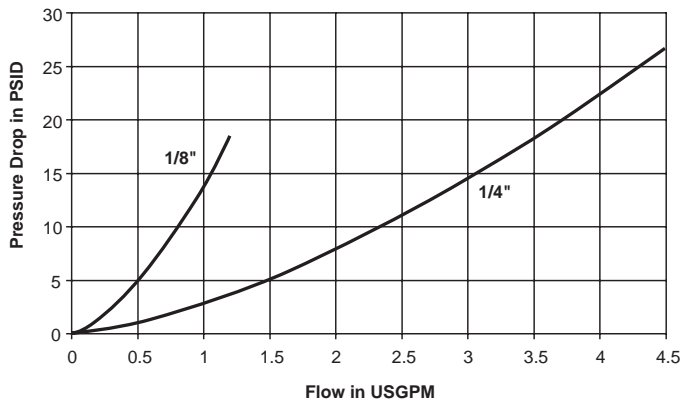
Features

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.

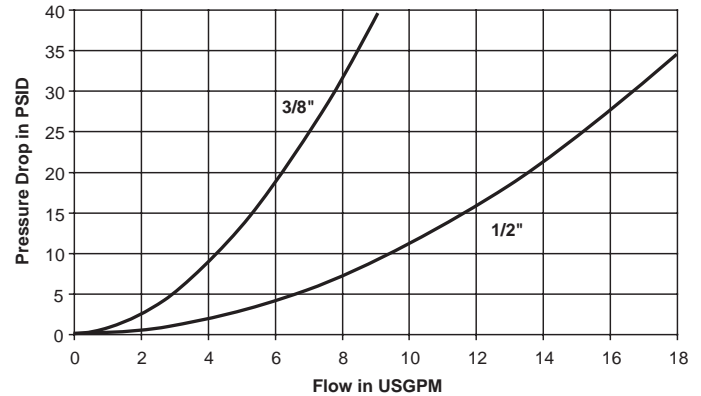
4. Hardened nipples and sleeves (steel) and solid barstock construction make for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock.
5. The seal is designed to withstand high pressures and provide reliable sealing. A wide selection of optional seal materials are available, see Fluid Compatibility Chart at end of this catalog for selection assistance. Steel versions feature PTFE 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. Also available with a Straight Thread (ORB) end configuration available as standard.
9. Industrial Standard: Parker 60 Series couplings comply with ISO 7241, Series B Standard.

Performance

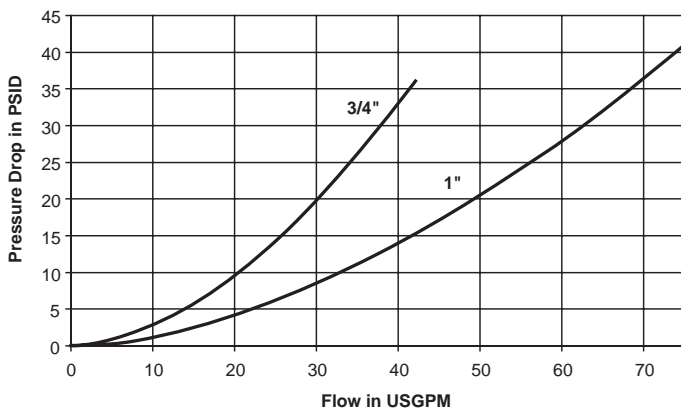
60 Series (1/8" & 1/4")
Test Fluid: Oil - 150 SUS



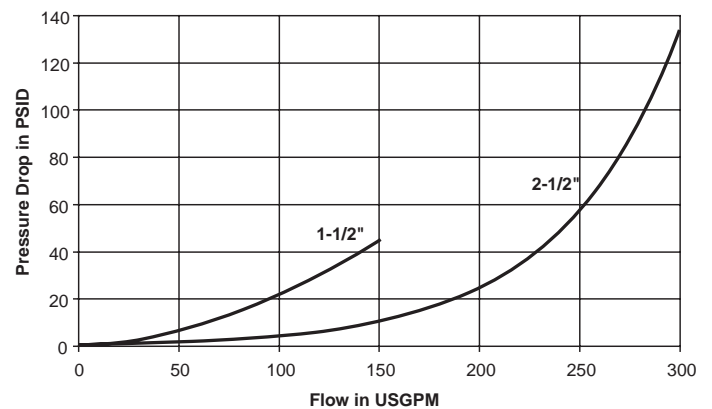
60 Series (3/8" & 1/2")
Test Fluid: Oil - 150 SUS



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



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

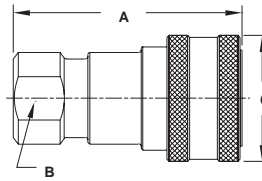


Hydraulic Quick Couplings

General Purpose Couplings 60 Series

Couplers

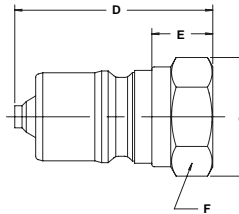
Female Thread



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
1/8	BH1-60	0.16	H1-62	0.16	SH1-62	0.16	SSH1-62Y	0.15	1/8-27	-	1.90	0.68	0.96	
1/8	-	-	H1-62-T4	0.18	SH1-62-T4	0.10	SSH1-62Y-T4	0.17	-	7/16-20	2.06	0.68	0.96	
1/4	BH2-60	0.32	H2-62	0.30	SH2-62	0.30	SSH2-62Y	0.30	1/4-18	-	2.26	0.81	1.14	
1/4	-	-	H2-62-T6	0.31	SH2-62-T6	0.31	SSH2-62Y-T6	0.31	-	9/16-18	2.41	0.81	1.14	
3/8	BH3-60	0.43	H3-62	0.40	SH3-62	0.40	SSH3-62Y	0.40	3/8-18	-	2.49	0.88	1.40	
3/8	-	-	H3-62-T8	0.51	SH3-62-T8	0.51	SSH3-62Y-T8	0.51	-	3/4-16	2.75	1.00	1.40	
1/2	BH4-60	0.80	H4-62	0.73	SH4-62	0.75	SSH4-62Y	0.76	1/2-14	-	2.87	1.12	1.77	
1/2	-	-	H4-62-T10	0.78	SH4-62-T10	0.75	SSH4-62Y-T10	0.78	-	7/8-14	3.05	1.12	1.77	
3/4	BH6-60	-	H6-62	1.30	SH6-62	1.31	SSH6-62Y	1.33	3/4-14	-	3.56	1.31	2.14	
3/4	-	-	H6-62-T12	1.39	SH6-62-T12	1.34	SSH6-62Y-T12	1.40	-	1-1/16-12	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	

Nipples

Female Thread



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

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

Optional Seals

60 Series



Optional Seals Suffix	
W	Ethylene Propylene (EPR)
Y	Fluorocarbon
Z	Neoprene
	Perfluoroelastomer (Contact factory for Seal options)

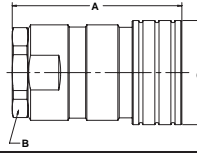


Hydraulic Quick Couplings

General Purpose Couplings 60 Series

Couplers

Female Thread

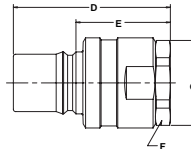


Body Size (in.)	Part No. Brass	Wt. (LB.) P/Piece	Part No. Steel	Wt. (LB.) P/Piece	Part No. Type 303 Stainless	Wt. (LB.) P/Piece	Part No. Type 316 Stainless	Wt. (LB.) P/Piece	Thread Size NPTF	Thread Size ORB	Dimensions (in.)		
											Overall Length	Wrench Flats	Largest Diameter
											A	B	C
1 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

‡Wrench Flat on 303 Stainless is 2.50 in.

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

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

† Largest diameter on Brass is 2.96" across Hex Corners

‡ Hex on 303 Stainless is 2.50 in.

Replacement Parts

60 Series Couplers

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

Repair Kits

Couplers

Nipples

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



Hydraulic Quick Couplings

General Purpose Couplings 60 Series Steam Couplings

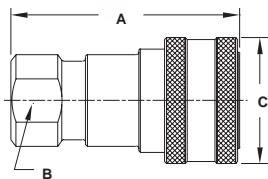


Specifications

Body Size (in.)	1/4 to 1
Standard Seal Material	Ethylene Propylene
Temperature Range	up to +400°

Coupler

Female Pipe Thread

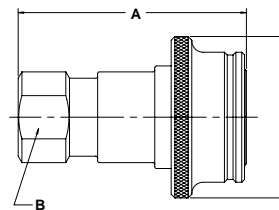


Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimension (in.)			Wt. (LB.) P/Piece
			Overall Length	Wrench Flats	Largest Diameter	
			A	B	C	
1/4	BH2-60-STM	1/4-18	2.26	0.81	1.14	0.30
3/8*	H3-68	3/8-18	2.50	0.88	1.77	0.50
1/2	BH4-60-STM	1/2-14	2.87	1.12	1.77	0.75
3/4	BH6-60-STM	3/4-14	3.56	1.31	2.14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

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

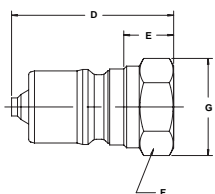
Coupler - 3/8 Inch Configuration

Female Pipe Thread



Nipple

Female Pipe Thread



Body Size (in.)	Part No. Brass	Thread Size NPTF	Dimension (in.)				Wt. (LB.) P/Piece
			Overall Length	Exposed* Length	Hex Size	Largest Diameter	
			D	E	F	G	
1/4	BH2-61-STM	1/4-18	1.54	0.65	0.75	0.87	0.08
3/8	H3-69	3/8-18	1.68	0.52	0.88	1.01	0.13
1/2	BH4-61-STM	1/2-14	1.94	0.69	1.12	1.30	0.24
3/4	BH6-61-STM	3/4-14	2.43	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

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

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 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.

Applications

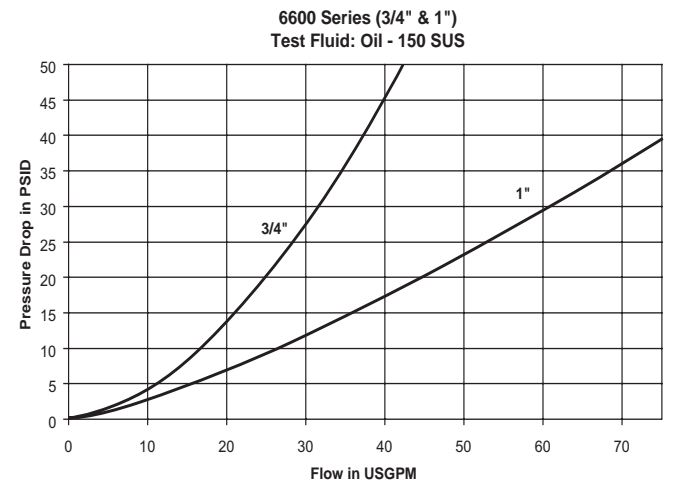
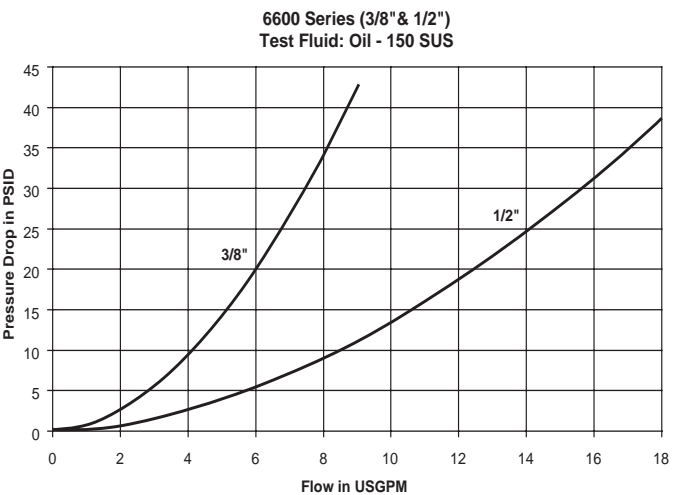
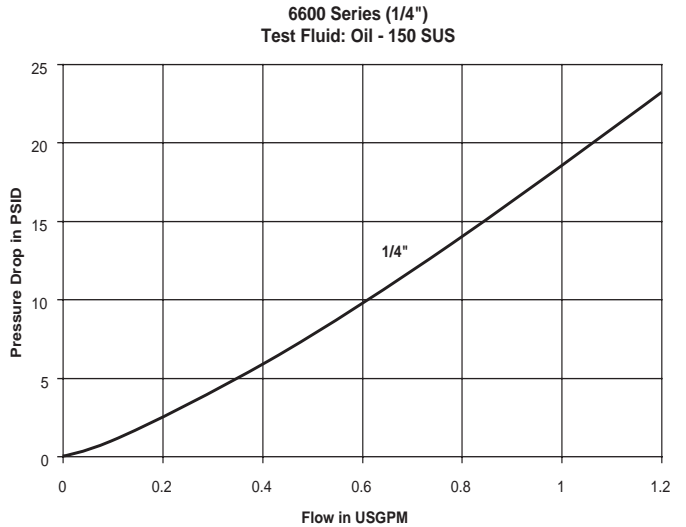
Versatile Parker 6600 Series couplings are used in a wide range of hydraulic applications including construction equipment, manufacturing machinery, and in-plant systems. They can be found anywhere the fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment. 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)	0.8	6	12	28	50
Temperature Range (Nitrile seals)	-40° to +250° F				

Performance



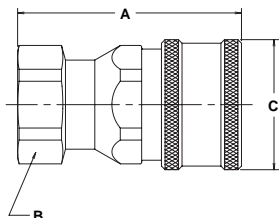
Hydraulic Quick Couplings

General Purpose Couplings

6600 Series

Couplers

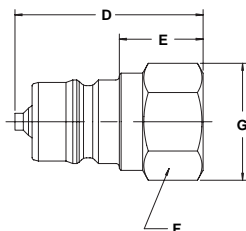
Female Thread



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	1.93
1	6608-16-16	—	1 5/16-12	4.11	1.88	2.14	1.75

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	—	1.41	.50	.56	.65	0.05
1/4	6602-4-4	1/4-18	—	1.41	.58	.75	.87	0.07
3/8	6602-6-6	3/8-18	—	1.63	.72	.88	1.01	0.11
3/8	6610-6-6	—	9/16-18	1.63	.72	.88	1.01	0.13
1/2	6602-8-10	1/2-14	—	2.08	.78	1.06	1.23	0.21
1/2	6602-12-10	3/4-14	—	2.30	.78	1.38	1.59	0.33
1/2	6610-8-10	—	3/4-16	2.08	.76	1.06	1.23	0.22
1/2	6610-10-10	—	7/8-14	2.08	.82	1.12	1.30	0.21
1/2	6610-12-10	—	1 1/16-12	2.30	1.04	1.38	1.59	0.33
3/4	6602-12-12	3/4-14	—	2.55	1.18	1.38	1.59	0.49
3/4	6610-12-12	—	1 1/16-12	2.55	1.18	1.38	1.59	0.47
1	6602-16-16	1-11 1/2	—	3.10	1.34	1.62	1.88	0.75
1	6610-16-16	—	1 5/16-12	3.10	1.34	1.62	2.17	0.72

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

Replacement Parts

6600 Series

Body Size (in.)	1/4	3/8	1/2	3/4	1
O-Rings - Nitrile	50001-112-0010	50001-115-0010	50001-211-0010	50001-123-0010	50001-126-0010
Back-up Rings	4118006	4118005	50-140-4	4138001	4148002





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 (NPTF), SAE O-Ring Boss and British Pipe (BSPP) as standard.

Applications

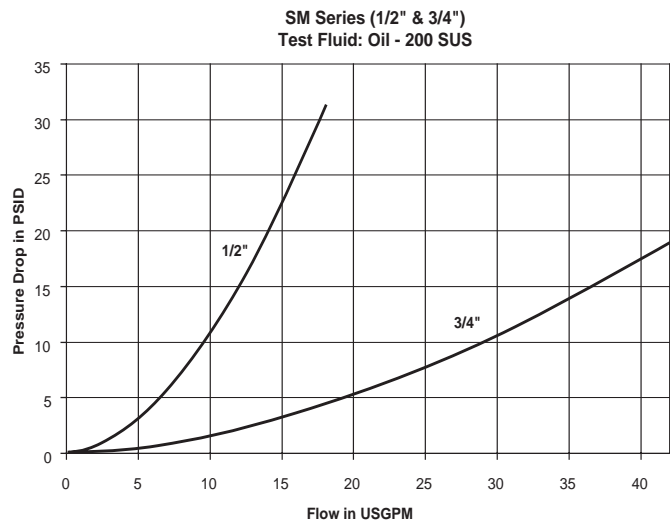
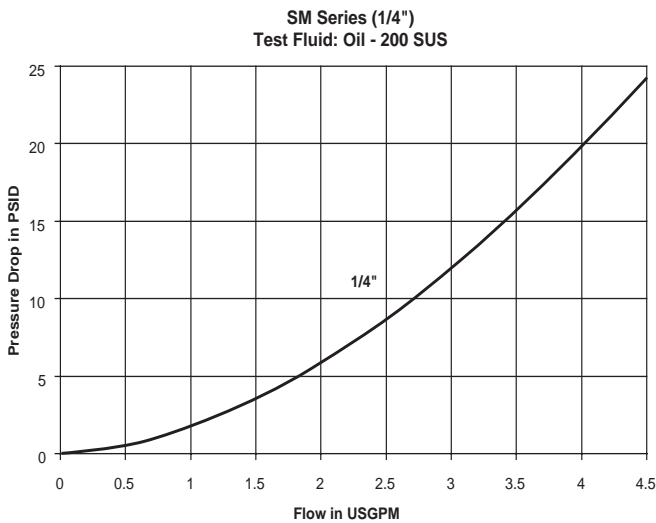
SM Series couplings are used across the spectrum of hydraulic applications. These Double Shut-Off couplings can be found anywhere that fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment, and a loss of fluid is undesirable. Designed for use with commercial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

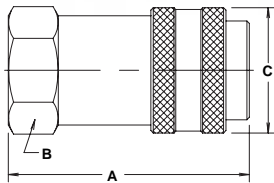


Hydraulic Quick Couplings

General Purpose Couplings SM Series

Couplers

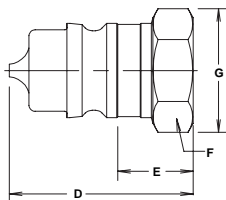
Female Thread



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 NPTF	2.09	0.75	1.06	0.24
1/4	SM-251-4FB	G1/4 BSPP	2.24	0.75	1.06	0.26
1/4	SM-251-6FP	3/8-18 NPTF	2.24	0.94	1.06	0.28
1/4	SM-251-6FB	G3/8 BSPP	2.24	0.94	1.06	0.26
1/4	SM-251-6FO	9/16-18ORB	2.24	0.75	1.06	0.25
1/2	SM-501-8FP	1/2-14 NPTF	3.00	1.25	1.56	0.70
1/2	SM-501-8FB	G1/2 BSPP	3.00	1.25	1.56	0.74
1/2	SM-501-12FP	3/4-14 NPTF	3.07	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	3/4-16ORB	3.16	1.25	1.56	0.70
3/4	SM-751-12FO	1 1/16-12ORB	3.89	1.62	2.25	1.78
3/4	SM-751-12FP	3/4-14 NPTF	3.77	1.62	2.22	1.83
3/4	SM-751-12FB	G3/4 BSPP	3.89	1.62	2.22	1.88
3/4	SM-751-16FP	1-11 1/2 NPTF	3.98	1.62	2.22	1.84
3/4	SM-751-16FB	G 1 BSPP	3.98	1.62	2.22	1.89
3/4	SM-751-16FO	1-5/16-12ORB	3.98	1.62	2.22	1.89

Nipples

Female Thread



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	SM-252-4FP	1/4-18 NPTF	1.49	0.50	0.75	0.87	0.08
1/4	SM-252-4FB	G1/4 BSPP	1.64	0.65	0.75	0.87	0.09
1/4	SM-252-6FP	3/8-18 NPTF	1.64	0.81	0.94	1.08	0.14
1/4	SM-252-6FB	G3/8 BSPP	1.64	0.81	0.94	1.08	0.14
1/4	SM-252-6FO	9/16-18ORB	1.64	0.55	0.75	0.87	0.08
1/2	SM-502-8FO	3/4-16ORB	2.14	0.72	1.06	1.23	0.16
1/2	SM-502-8FP	1/2-14 NPTF	2.01	0.45	1.06	1.23	0.15
1/2	SM-502-8FB	G1/2 BSPP	2.01	0.60	1.06	1.23	0.18
1/2	SM-502-12FP	3/4-14 NPTF	2.31	0.90	1.37	1.59	0.30
1/2	SM-502-12FB	G3/4 BSPP	2.63	1.07	1.37	1.59	0.34
3/4	SM-752-12FO	1 1/16-12ORB	2.60	0.39	1.50	1.73	0.48
3/4	SM-752-12FP	3/4-14 NPTF	2.48	0.39	1.50	1.73	0.52
3/4	SM-752-12FB	G3/4 BSPP	2.60	0.53	1.50	1.73	0.56
3/4	SM-752-16FP	1-11 1/2 NPTF	2.69	0.67	1.62	1.88	0.56
3/4	SM-752-16FB	G 1 BSPP	2.69	0.67	1.62	1.88	0.68
3/4	SM-752-16FO	1-5/16-12ORB	2.69	0.67	1.62	1.88	0.68

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

Optional Seals



Optional Seals Suffix (Standard seals are Nitrile)	
E4	Fluorocarbon
E5	Ethylene Propylene (EPR)
E12	Neoprene
	Perfluoroelastomer (Contact Factory for Seal Options)



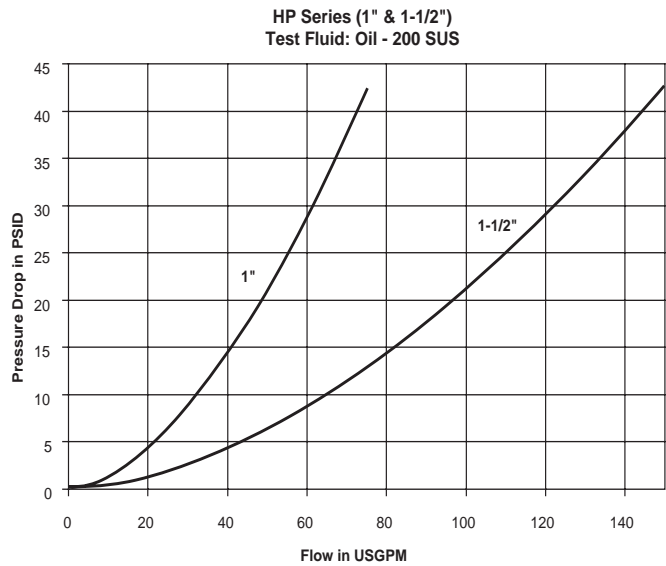
Features

- 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 is Chromium-6 Free plated for corrosion resistance.
- Smooth Flow Path Minimizes Pressure Drop.
- Nitrile Body Seal supported by PTFE 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.
- Nitrile 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	

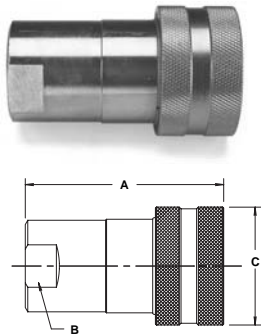
Performance



Hydraulic Quick Couplings

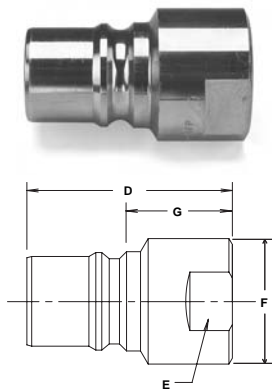
General Purpose Couplings HP Series (High Pressure Coupling)

Couplers



Body Size (in.)	Part No.	Thread Size	Overall Length	Wrench Flats	Largest Diameter	Wt. (LB.) P/Piec
			A	B	C	
1	HP-1001-16FP	1 11-1/2 NPSF	3.95	1.62	2.38	2.10
1	HP-1001-16FO	1 15/16-12ORB	4.35	1.62	2.38	2.10
1 1/2	HP-1501-24FP	1 1/2-11 1/2 NPTF	4.93	2.25	3.00	4.40
1 1/2	HP-1501-24FO	1 7/8 -12 ORB	4.93	2.25	3.00	4.40

Nipples



Body Size (in.)	Part No.	Thread Size	Overall Length	Wrench Flats	Largest Diameter	Exposed Length*	Wt. (LB.) P/Piece
			D	E	F	G	
1	HP-1002-16FP	1 11-1/2 NPSF	3.00	1.62	1.88	1.32	0.84
1	HP-1002-16FO	1 15/16-12ORB	3.40	1.62	1.88	1.72	0.84
1 1/2	HP-1502-24FP	1 1/2-11 1/2 NPTF	4.06	2.25	2.63	.99	1.85
1 1/2	HP-1502-24FO	1 7/8-12 ORB	4.06	2.25	2.63	.99	1.85

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

Dust Plugs and Caps

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



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 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.

Specifications

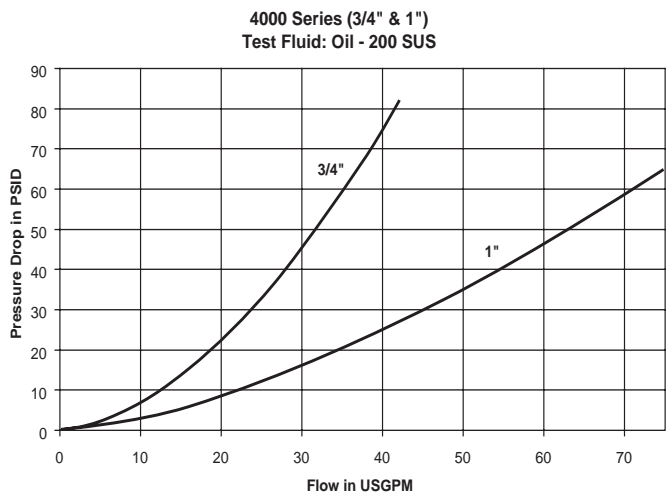
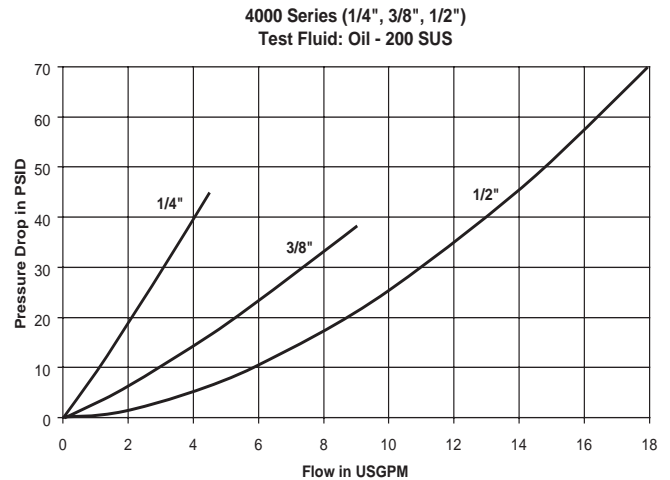
Body Size (in.)	1/4	3/8	1/2	3/4	1
Rated Pressure (PSI)	3000	3000	3000	3000	3000
Rated Flow (GPM)	3	6	12	28	50
Temperature Range (std seals)	-40° to +250°F				

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.
- For applications with residual trapped pressure use connect-under-pressure nipples designated by the -DC option.
- The mating 8010 series nipples meet ISO 5675 requirements.

Performance



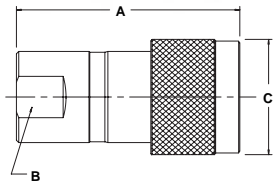
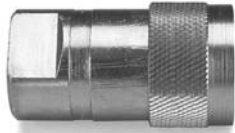
Hydraulic Quick Couplings

General Purpose Couplings 4000 Series

B Hydraulics

Couplers

Female Thread



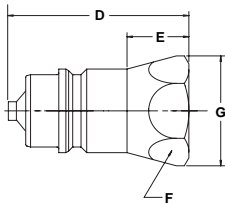
Body Size (in.)	Part No. Steel*	Thread Size NPTF	Thread Size ORB	Thread Size BSPP	Dimensions (in.)			Wt. (LB.) P/Piece	
					Overall Length	Wrench Flats	Largest Diameter		
					A	B	C		
1/4	4050-2P	1/4-18	—	—	2.18	0.88	1.06	0.24	
1/4	4050-2P-T8M	—	3/4-16 (Male)	—	1.80	0.88	1.06	0.21	
1/4	4050-T6	—	9/16-18	—	2.18	0.88	1.06	0.27	
1/4	4050P-T6**	—	9/16-18	—	2.43	0.81	1.33	0.33	
3/8	4050-3P	3/8-18	—	—	2.31	0.94	1.33	0.51	
1/2	4050-4	1/2-14	—	—	2.60	1.06	1.52	0.58	
1/2	4050-4P	1/2-14	—	—	2.60	1.06	1.52	0.58	
1/2	4050-5	3/4-14	—	—	2.69	1.13	1.52	0.71	
1/2	4050-5P	3/4-14	—	—	2.69	1.13	1.52	0.71	
1/2	4050-15	—	3/4-16	—	2.81	1.06	1.52	0.64	
1/2	4050-15P	—	3/4-16	—	2.81	1.06	1.52	0.64	
1/2	4050-16	—	7/8-14	—	2.75	1.06	1.52	0.59	
1/2	4050-16P	—	7/8-14	—	2.75	1.06	1.52	0.59	
1/2	4050-29BSPP	—	—	1/2-14	2.68	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	

* P in part number designates Poppet design

** Push-to-Connect design.

Nipples

Female Thread

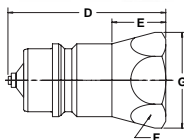


Body Size (in.)	Part No. Steel*	Thread Size NPTF	Thread Size ORB	Thread Size BSPP	Dimensions (in.)				Wt. (LB.) P/Piece	
					Overall Length	Exposed Length†	Hex Size	Largest Diameter		
					D	E	F	G		
1/4	4010-2P	1/4-18	—	—	1.39	0.71	0.75	0.87	0.08	
1/4	4010-T6	—	9/16-18	—	1.49	0.81	0.75	0.87	0.09	
3/8	4010-3P	3/8-18	—	—	1.50	.80	.94	1.08	0.16	
1/2	8010-4	1/2-14	—	—	1.95	1.09	1.06	1.23	0.20	
1/2	8010-4P	1/2-14	—	—	1.95	1.09	1.06	1.23	0.20	
1/2	8010-5	3/4-14	—	—	2.14	1.28	1.25	1.44	0.25	
1/2	8010-5P	3/4-14	—	—	2.14	1.28	1.25	1.44	0.25	
1/2	8010-15	—	3/4-16	—	2.06	1.20	1.06	1.23	0.20	
1/2	8010-15P	—	3/4-16	—	2.06	1.20	1.06	1.23	0.20	
1/2	8010-16	—	7/8-14	—	2.05	1.18	1.06	1.23	0.25	
1/2	8010-16P	—	7/8-14	—	2.05	1.18	1.06	1.23	0.25	
1/2	8010-29BSPP	—	—	1/2-14	1.95	1.09	1.06	1.18	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 in part number designates Poppet design

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

Connect-Under-Pressure



Body Size (in.)	Part No. Steel*	Thread Size NPTF	Thread Size ORB	Thread Size BSPP	Dimensions (in.)				Wt. (LB.) P/Piece	
					Overall Length	Exposed Length†	Hex Size	Largest Diameter		
					D	E	F	G		
1/2	8010-4P-DC	1/2-14	—	—	1.81	1.09	1.06	1.16	0.20	
1/2	8010-15P-DC	—	3/4-16	—	1.81	1.09	1.06	1.16	0.20	

Replacement Parts - 4000 Series

Body Size (in.)	1/4	3/8	1/2	3/4	1
O-Rings - Nitrile	50001-113-0260	50001-116-0260	50001-211-0260	50001-215-0010	50001-218-0260





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 Nitrile. For other seal options see Table of Contents. 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.

Features

Parker 4200 Series couplings feature:

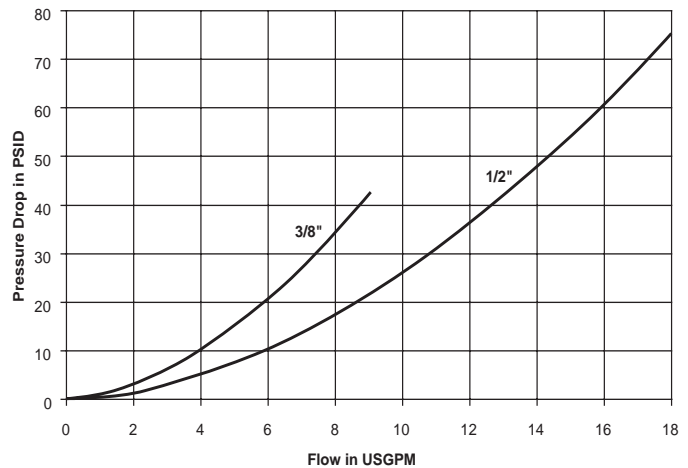
- Double acting sleeve for one handed push-to-connect operation when coupler is clamp or bulkhead mounted.
- Poppet valves available to prevent uncoupled leakage.
- Ball valves available for rugged dependability in heavy-duty hydraulic applications, within rated working pressures.
- Critical parts are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

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

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

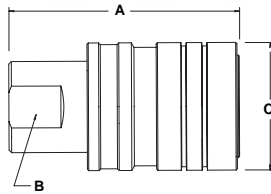


Hydraulic Quick Couplings

General Purpose Couplings 4200 Series

Couplers

Female Thread

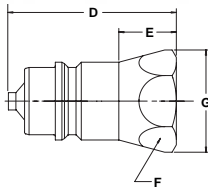


Body Size (in.)	Part No. Steel*	Thread Size NPTF	Thread Size ORB	Dimensions (in.)			Wt. (LB.) P/Piece
				Overall Length	Wrench Flats	Largest Diameter	
				A	B	C	
3/8	4250-3P	3/8-18	–	2.31	0.81	1.31	0.39
1/2	4250-4	1/2-14	–	2.68	0.94	1.50	0.55
1/2	4250-4P	1/2-14	–	2.68	0.94	1.50	0.55
1/2	4250-15	–	3/4-16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

* P in part number designates Poppet design

Nipples

Female Thread

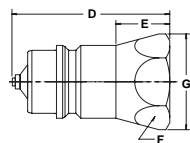


Body Size (in.)	Part No. Steel*	Thread Size NPTF	Thread Size ORB	Overall Length	Dimensions (in.)			Wt. (LB.) P/Piece
					Exposed Length**	Hex Size	Largest Diameter	
					D	E	F	G
3/8	4010-3P	3/8-18	–	1.60	0.80	0.94	1.08	0.16
1/2	8010-4	1/2-14	–	1.95	1.09	1.06	1.23	0.20
1/2	8010-4P	1/2-14	–	1.95	1.09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

* P in part number designates Poppet design

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

Connect-Under-Pressure



Body Size (in.)	Part No. Steel*	Thread Size NPTF	Thread Size ORB	Thread Size BSPP	Dimensions (in.)				Wt. (LB.) P/Piece
					Overall Length	Exposed Length**	Hex Size	Largest Diameter	
					D	E	F	G	
1/2	8010-4P-DC	1/2-14	–	–	1.81	1.09	1.06	1.16	0.20
1/2	8010-15P-DC	–	3/4-16	–	1.81	1.09	1.06	1.16	0.20

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

Replacement Parts - 4200 Series

Body Size (in.)	Part Number	Description	Material
1/2	50001-211-0260	O-Rings	Nitrile
3/8	50001-116-0260	O-Rings	Nitrile

