



FHK Series 1/8" to 1"

(Compatible with ISO 7241-1, Series B)



Performance Data								
Body Size	Rated Pressure Coupled PSI (Non Shock Service)			Air Flow – CFM				Oil Flow-GPM MIL-H5606-125°F Pressure Drop
				100 PSIG		80 PSIG		
	Steel			Pressure Drop			10 PSIG	
				10 PSIG	5 PSIG	10 PSIG		5 PSIG
1/8"	4000	3000	5000	22	17	20	15	1.8
1/4"	5000	2700	3700	32	22	29	20	3.6
3/8"	3700	2200	3700	58	42	53	38	6.7
1/2"	5000	2250	4250	130	88	118	80	11.0
3/4"	4000	2000	3500	305	207	277	188	26.3
1"	4000	1500	3000	372	252	338	229	31.8

Applications: FHK Series sockets incorporate valves in both socket and plug halves to prevent fluid loss when the socket is disconnected. These sockets are normally referred to as "hydraulic couplings", but they are used extensively with other media where objectionable. The FHK Series sockets are available in ROHS compliant steel and brass.

Vacuum Service: 27" Hg. maximum Rated pressures as defined by ANSI/B93.2-1986 based on 4:1 Safety Factor and non-shock service.

Type: FHK, Two-Way Shutoff, Both socket and plug are sealed at disconnect.

Interchangeability: Standard, most widely used, industrial interchange design. Within each series, only sockets and plugs of the same size will couple to gether. Compatible with ISO 7241-1, Series B.

Operation: Manual - Socket sleeve must be manually retracted to connect and disconnect.

Seal Compound: Standard seals are Buna-N.

Options:

- One Way Shut-Off: Add suffix VA to either socket or plug catalog number for valve actuator.
- Straight-Thru: Add suffix LV to both socket and plug catalog number for less valve.
- Ball Lock (BL): Locks against accidental disconnect. To connect, align ball with slot. After connection, rotate sleeve to lock. To disconnect, realign ball with slot and retract sleeve.

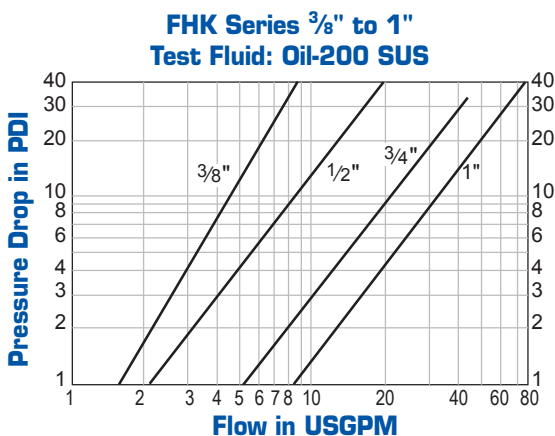
Ordering information:

FHK Series couplings are available in ROHS compliant plated steel, brass, and 303 Stainless as standard. Brass couplings have double O-Ring seals (excluding 1/8") and stainless locking balls. Standard seals are Buna-N (Nitrile). Consult factory for optional seals.

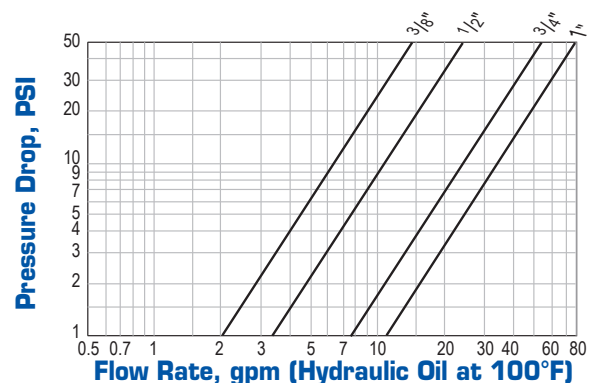
All sizes can be furnished with locking sleeves designated by "BL" (Ball Lock) suffix after regular catalog numbers.

Specifications:

Performance:



Rated Pressure, Coupled							
	Size	Brass		Steel		Stainless Steel	
		PSI	BAR	PSI	BAR	PSI	BAR
H3	3/8"	2,200	152	3,700	255	3,700	255
H4	1/2"	2,250	155	5,000	345	4,250	293
H6	3/4"	2,000	138	4,000	275	3,500	242
H8	1"	1,500	103	4,000	275	2,500	173





FHK Series 1/8" to 1"

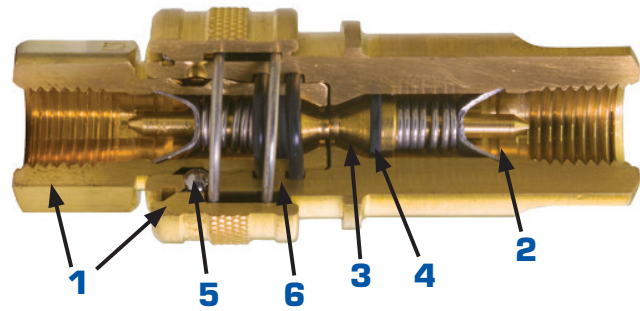
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Features:


- 1 ISO B, Hardened plugs and sleeves constructed from solid bar stock ensures long service life and maximum resistance to damage from hydraulic and mechanical shock.
- 2 High flow capacity.
- 3 Foster's conical valve with its 360° metal to metal valve stop maintains valve alignment and ensures that poppets open fully every time.
- 4 Captive valve seal ensures "bubble tight" poppet sealing since seal is positively captured by the metal poppet to minimize seal washout or damage from high fluid velocity.




- 5 Ball locking mechanism ensures reliable connections every time. Many ball bearings distribute the load while providing alignment and excellent swiveling action to reduce hose torque and prolong hose life.
- 6 Broad range of metals and seal materials allow the use of most fluids.

FHK Series 1/8" Two Way Shut-Off, Plugs and Sockets

Plugs		Part No.	Thread	Description
		K1S	1/8"	Steel
		K1S-101		Steel w/Viton Seal
		K1B		Brass
		K1B-101		Brass, w/Viton Seal
		K1B-103		Brass, w/EPDM Seal
		K1BLV		Brass Less Valve
		K1S/S		303 Stainless
		K1S/S-101		303 Stainless, w/Viton Seal
		K1S4	7/16-20*	Steel


Sockets		Part No.	Thread	Description
		H1S	1/8"	Steel
		H1S-101		Steel w/Viton Seal
		H1B		Brass
		H1B-101		Brass, w/Viton Seal
		H1B-103		Brass, w/Ethylene Propylene Seal
		H1BLV		Brass Less Valve
		H1S/S		303 Stainless
		H1S/S-101		303 Stainless, w/Viton Seal
		H1S/S-104		303 Stainless, w/Silicone Seal
		BLH1S		Steel Ball Lock
		BLH1B	Brass Ball Lock	
		BLH1S/S	303 Stainless Ball Lock	
		H1S4	7/16-20*	Steel
BLH1S4	Steel Ball Lock			

FHK Series 1/4" Two Way Shut-Off, Plugs and Sockets

Plugs		Part No.	Thread	Description
		K2S	1/4"	Steel
		K2S-101		Steel w/Viton Seal
		K2S-103		Steel w/EPDM Seal
		K2S-104		Steel w/Silicone Seal
		K2SLV		Steel Less Valve
		K2B		Brass
		K2B-101		Brass, w/Viton Seal
		K2B-102		Brass, w/Neoprene Seal
		K2B-103		Brass, w/EPDM Seal
		K2B-104		Brass, w/Silicone Seal
		K2BLV		Brass Less Valve
		K2S/S		303 Stainless
		K2S/S-101		303 Stainless, w/Viton Seal
		K2S/S-103		303 Stainless, w/EPDM Seal
		K2S/S-104		303 Stainless, w/Silicone Seal
K2S/SLV	303 Stainless Less Valve			
K2S6	9/16-18*	Steel		


Sockets		Part No.	Thread	Description
		H2S	1/4"	Steel
		H2S-101		Steel w/Viton Seal
		H2S-103		Steel w/EPDM Seal
		H2S-104		Steel w/Silicone Seal
		H2B		Brass
		H2B-101		Brass, w/Viton Seal
		H2B-102		Brass, w/Neoprene Seal
		H2B-103		Brass, w/EPDM Seal
		H2BLV		Brass Less Valve
		H2S/S		303 Stainless
		H2S/S-101	303 Stainless, w/Viton Seal	
		H2S/S-103	303 Stainless, w/EPDM Seal	
		H2S/S-104	303 Stainless, w/Silicone Seal	
		H2S/SLV	303 Stainless Less Valve	
		BLH2S	Steel Ball Lock	
		BLH2B	Brass Ball Lock	
		BLH2S/S	303 Stainless Ball Lock	
H2S6	9/16-18*	Steel		
BLH2S6		Steel Ball Lock		

FHK Series 3/8" Two Way Shut-Off, Plugs and Sockets

Plugs		Part No.	Thread	Description
		K3S	3/8"	Steel
		K3S-101		Steel w/Viton Seal
		K3S-102		Steel w/Neoprene Seal
		K3S-103		Steel w/EPDM Seal
		K3S-104		Steel w/Silicone Seal
		K3SLV		Steel Less Valve
		K3B		Brass
		K3B-101		Brass, w/Viton Seal
		K3B-102		Brass, w/Neoprene Seal
		K3B-103		Brass, w/EPDM Seal
		K3S/S		303 Stainless
		K3S/S-101		303 Stainless, w/Viton Seal
		K3S/S-103		303 Stainless, w/EPDM Seal
		K3S8		3/4-16*

Sockets		Part No.	Thread	Description
		H3S	3/8"	Steel
		H3S-101		Steel w/Viton Seal
		H3S-102		Steel w/Neoprene Seal
		H3S-103		Steel w/EPDM Seal
		H3S-104		Steel w/Silicone Seal
		H3B		Brass
		H3B-101		Brass, w/Viton Seal
		H3B-102		Brass, w/Neoprene Seal
		H3B-103		Brass, w/Ethylene Propylene Seal
		H3B-104		Brass, w/Silicone Seal
		H3S/S		303 Stainless
		H3S/S-101		303 Stainless, w/Viton Seal
		BLH3S		Steel Ball Lock
		BLH3B		Brass Ball Lock
		BLH3S/S	303 Stainless Sleeve Lock	
		H3S8	3/4-16**	Steel
		BLH3S8	Steel Ball Lock	

FHK Series 1/2" Two Way Shut-Off, Plugs and Sockets

Plugs		Part No.	Thread	Description
		K4S	1/2"	Steel
		K4S-101		Steel w/Viton Seal
		K4S-103		Steel w/EPDM Seal
		K4SLV		Steel Less Valve
		K4B		Brass
		K4B-101		Brass, w/Viton Seal
		K4B-102		Brass, w/Neoprene Seal
		K4B-103		Brass, w/EPDM Seal
		K4BLV		Brass Less Valve
		K4S/S		303 Stainless
		K4S/S-101		303 Stainless, w/Viton Seal
		K4S/S-103		303 Stainless, w/EPDM Seal
		K4S/SLV		303 Stainless Less Valve
		K4S10		7/8-14*

Sockets		Part No.	Thread	Description
		H4S	1/2"	Steel
		H4S-101		Steel w/Viton Seal
		H4S-103		Steel w/EPDM Seal
		H4B		Brass
		H4B-101		Brass, w/Viton Seal
		H4B-102		Brass, w/Neoprene Seal
		H4B-103		Brass, w/Ethylene Propylene Seal
		H4S/S		303 Stainless
		H4S/S-101		303 Stainless, w/Viton Seal
		H4S/S-103		303 Stainless, w/EPDM Seal
		BLH4S		Steel Ball Lock
		BLH4B		Brass Ball Lock
		BLH4S/S		303 Stainless Ball Lock
		H4S10		7/8-14*
		BLH4S10	Steel Ball Lock	

Non-Standard Product Standard Product

*SAE straight thread O-ring seal boss

See page 143 for full size templates

See page 130 - 131 for optional seal compounds




FHK Series 1/8" to 1"


(Compatible with ISO 7241-1, Series B)




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FHK Series 3/4" Two Way Shut-Off, Plugs and Sockets

Plugs		Part No.	Thread	Description	
		K6S	3/4"	Steel	
		K6S-101		Steel w/Viton Seal	
		K6S-102		Steel w/Neoprene Seal	
		K6S-103		Steel w/EPDM Seal	
		K6SLV		Steel Less Valve	
		K6B		Brass	
		K6B-101		Brass, w/Viton Seal	
		K6B-103		Brass, w/Ethylene Propylene Seal	
		K6S/S		303 Stainless	
		K6S/S-101		303 Stainless, w/Viton Seal	
		K6S/S-103		303 Stainless, w/EPDM Seal	
		K6S/SLV		303 Stainless Less Valve	
		K6S12		1-1/16-12*	Steel

Sockets (cont.)		Part No.	Thread	Description
		H6S-101	3/4"	Steel w/Viton Seal
		H6S-102		Steel w/Neoprene Seal
		H6S-103		Steel w/EPDM Seal
		H6SLV		Steel Less Valve
		H6B		Brass
		H6B-101		Brass, w/Viton Seal
		H6B-103		Brass, w/Ethylene Propylene Seal
		H6B-104		Brass, w/Silicone Seal
		H6S/S		303 Stainless
		H6S/S-101		303 Stainless, w/Viton Seal
		H6S/S-103		303 Stainless, w/EPDM Seal
		H6S/SLV		303 Stainless Less Valve
		BLH6S		Steel Ball Lock
		BLH6B		Brass Ball Lock
		BLH6S/S	303 Stainless Ball Lock	
		H6S12	1-1/16-12*	Steel
		BLH6S12	Steel Ball Lock	

FHK Series 1" Two Way Shut-Off, Plugs and Sockets

Plugs		Part No.	Thread	Description
		K8S	1" x 1"	Steel
		K8S-101		Steel w/Viton Seal
		K8SLV		Steel Less Valve
		K8B		Brass
		K8B-101		Brass, w/Viton Seal
		K8B-103		Brass, w/Ethylene Propylene Seal
		K8S/S		303 Stainless
		K8S/S-101		303 Stainless, w/Viton Seal
		K8S/S-103		303 Stainless, w/EPDM Seal
K8S16	1" x 1-5/16-12*	Steel		

Sockets (cont.)		Part No.	Thread	Description	
		H8S	1"	Steel	
		H8S-101		Steel w/Viton Seal	
		H8SLV		Steel Less Valve	
		H8B		Brass	
		H8B-101		Brass, w/Viton Seal	
		H8B-103		Brass, w/Ethylene Propylene Seal	
		H8S/S		303 Stainless	
		H8S/S-101		303 Stainless, w/Viton Seal	
		H8S/S-103		303 Stainless, w/EPDM Seal	
		BLH8S		Steel Ball Lock	
		BLH8B		Brass Ball Lock	
		BLH8S/S		303 Stainless Ball Lock	
		H8S16		1-5/16-12*	Steel
		BLH8S16		Steel Ball Lock	

Non-Standard Product Standard Product

*SAE straight thread O-ring seal boss
See page 143 for full size templates
See page 130 - 131 for optional seal compounds


Dust Plugs and Caps


Dust Plugs and Dust Caps

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. Dust plugs and caps 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 plug is protected from damage that would make the total coupling unusable.

Note: When ordering the dust cap/plug body size must correspond to that of the socket or plug.

Dust Caps and Plugs Rubber		Part No.	Size	Description
		B1DC	1/8"	Dust Cap
		B1DP	1/8"	Dust Plug
		B2DC-DP	1/4"	Dust Cap and Plug
		B3DC-DP	3/8"	Dust Cap and Plug
		B4DC-DP	1/2"	Dust Cap and Plug
		B6DC-DP	3/4"	Dust Cap and Plug
		B8DC-DP	1"	Dust Cap and Plug

Aluminum - Dust Plug w/Lanyard		Part No.	Part No.	For Use
		NPT Thread	SAE Thread	With
		H1DP	H1DP4	1/8" Socket
		H2DP	H2DP6	1/4" Socket
		H3DP	H3DP8	3/8" Socket
		H4DP	H4DP10	1/2" Socket
		H6DP	H6DP12	3/4" Socket
		H8DP	H8DP16	1" Socket