

Subsea Check Valves

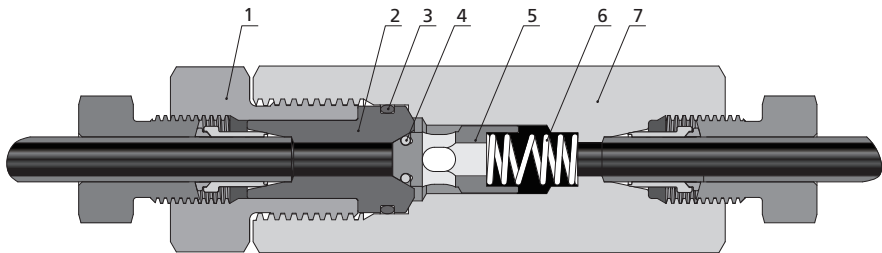
Features

- Working pressure up to 20,000 psig (1379 bar)
- Maximum external pressure: 6,000 psig (414 bar)
- Cracking pressure: 14 to 26 psig (0.97 to 1.79 bar)
- NBR O-ring for operation from -10 to 250°F (-23 to 121°C); other O-ring materials available
- High tensile 316 stainless steel for valve body
- NACE MR0175 optional
- Provides unidirectional flow and tight shut-off for liquids and gases with high reliability. When differential drops below cracking pressure, valve shuts off (not for use as relief valve)
- Soft seat seal ring style or metal-to-metal seat poppet style available
- Maximum water depth: 13,800 ft. (4200 m)



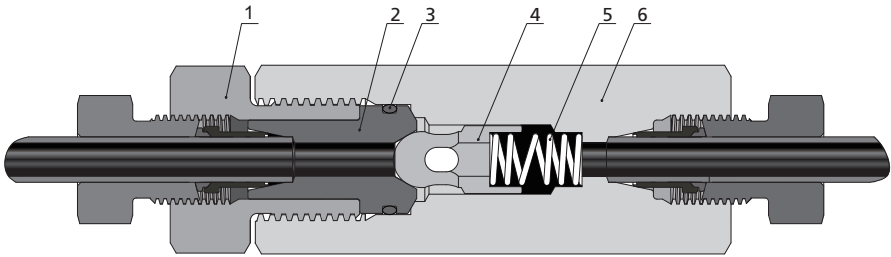
Standard Materials of Construction

SC Series



Item	Component	Material Grade
1	Cover Gland	316SS
2	Cover	316SS
3	Seal Ring	NBR
4	Seal Ring	NBR
5	Ball Poppet	316SS
6	Spring	304SS
7	Valve Body	316SS

SCO Series

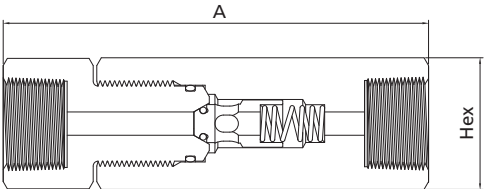


Item	Component	Material Grade
1	Cover Gland	316SS
2	Cover	316SS
3	Seal Ring	NBR
4	Ball Poppet	S17400SS
5	Spring	304SS
6	Valve Body	316SS

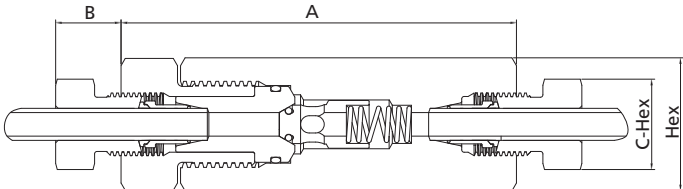
Wetted components listed in italics.

Ordering Information and Dimensions

FNS



DFF/MF

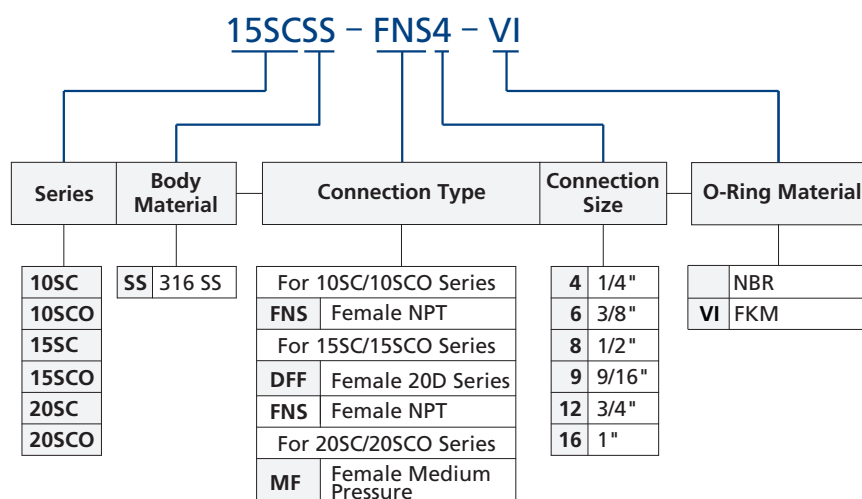


Series	Connection	Orifice Size in. (mm)	Cv	Dimensions, in. (mm)				Working Pressure psig (bar)
				A	B	C-Hex	Hex	
10SC	FNS12	0.52 (13.21)	4.70	6.11 (155.19)	—	—	1.75 (44.45)	10,000 (690)
	FNS16	0.69 (17.53)	7.40	7.32 (185.93)	—	—	1.88 (47.75)	
10SCO	FNS12	0.52 (13.21)	4.70	6.11 (155.19)	—	—	1.75 (44.45)	
	FNS16	0.69 (17.53)	7.40	7.32 (185.93)	—	—	1.88 (47.75)	
15SC	DFF4	0.188 (4.78)	0.63	3.43 (87.12)	0.52 (13.21)	0.63 (16.00)	0.81 (20.57)	15,000 (1034)
	DFF6	0.250 (6.35)	1.70	3.82 (97.03)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	
	DFF8	0.36 (9.12)	2.30	4.55 (115.57)	0.60 (15.24)	0.93 (23.62)	1.38 (35.05)	
15SCO	DFF4	0.188 (4.78)	0.63	3.43 (87.12)	0.53 (13.46)	0.63 (16.00)	0.81 (20.57)	
	DFF6	0.250 (6.35)	1.70	3.82 (97.03)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	
	DFF8	0.36 (9.12)	2.30	4.55 (115.57)	0.60 (15.24)	0.93 (23.62)	1.38 (35.05)	
15SC	FNS4	0.12 (3.05)	0.28	3.43 (87.12)	—	—	0.94 (23.81)	

Ordering Information and Dimensions (continued)

Series	Connection	Orifice Size in. (mm)	Cv	Dimensions, in. (mm)				Working Pressure psig (bar)
				A	B	C-Hex	Hex	
15SC	FNS6	0.22 (5.59)	0.84	3.82 (97.03)	—	—	1.13 (28.58)	15,000 (1034)
	FNS8	0.36 (9.12)	2.30	4.55 (115.57)	—	—	1.38 (35.05)	
15SCO	FNS4	0.12 (3.05)	0.28	3.43 (87.12)	—	—	0.94 (23.81)	
	FNS6	0.22 (5.59)	0.84	3.82 (97.03)	—	—	1.13 (28.58)	
	FNS8	0.36 (9.12)	2.30	4.55 (115.57)	—	—	1.38 (35.05)	
20SC	MF4	0.125 (3.18)	0.28	2.94 (74.68)	0.38 (9.65)	0.50 (12.70)	0.81 (20.57)	20,000 (1379)
	MF6	0.218 (5.54)	0.84	3.34 (84.84)	0.44 (11.18)	0.62 (15.75)	1.00 (25.40)	
	MF9	0.359 (9.12)	2.30	4.35 (110.49)	0.55 (13.97)	0.94 (23.81)	1.38 (35.05)	
	MF12	0.516 (13.11)	4.70	5.50 (139.70)	0.62 (15.75)	1.19 (30.23)	1.75 (44.45)	
	MF16	0.688 (17.48)	7.40	7.07 (179.59)	0.74 (18.80)	1.38 (35.05)	2.12 (53.85)	
20SCO	MF4	0.125 (3.18)	0.28	2.94 (74.68)	0.38 (9.65)	0.50 (12.70)	0.81 (20.57)	
	MF6	0.218 (5.54)	0.84	3.12 (79.25)	0.47 (11.94)	0.62 (15.75)	1.00 (25.40)	
	MF9	0.359 (9.12)	2.30	4.18 (106.17)	0.53 (13.46)	0.94 (23.81)	1.38 (35.05)	
	MF12	0.516 (13.11)	4.70	5.50 (139.70)	0.62 (15.75)	1.19 (30.23)	1.75 (44.45)	
	MF16	0.688 (17.48)	7.40	6.63 (168.40)	0.72 (18.29)	1.38 (35.05)	2.12 (53.85)	

Ordering Number Description



- Notes: 1. For more details regarding 20D Series and Medium Pressure connections, please see **Connection Information** on A-02.
2. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
3. Please contact FITOK Group or our authorized distributors for more information on wetted materials (Eg: 2507 SD), seal materials and operational designs to fulfill your application requirements.

Designator	O-Ring Material	Working Temperature Range, °F(°C)
	NBR	-10 to 250 (-23 to 121)
VI	FKM	0 to 400 (-17.8 to 204)