

Check Valves

CV, CH, CO, CA, COA, CL and CW Series



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FITOK
Valves and Fittings

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Features

CV, CH and CO Series

Fixed Cracking Pressures

CV Series

- Resilient O-ring seat design for leak free sealing
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10 °F to 375°F (-23°C to 190°C)
- Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- Variety of end connections and materials available

CH Series

- Seat ring continuously cleaned by media, avoiding secondary pollution
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- Variety of end connections and materials available

CO Series

- Compact, one piece body
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- Variety of end connections and materials available

CA and COA Series

Adjustable Cracking Pressures, Variety of Springs Available

CA Series

- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- Cracking pressure: 3 to 600 psig (0.2 to 41.4 bar)
- Variety of end connections and materials available

COA Series

- Compact, one-piece body
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- Cracking pressure: 3 to 600 psig (0.2 to 41.4 bar)
- Variety of end connections and materials available

CL Series

- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -65°F to 900°F (-53°C to 482°C)
- Variety of end connections and materials available
- Union bonnet design, all-stainless steel structure, horizontal installation with bonnet nut on top

CW Series

- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -10°F to 400°F (-23°C to 204°C)
- Cracking pressure: less than 2 psig (0.14 bar)
- Variety of end connections and materials available
- All-welded design for safety

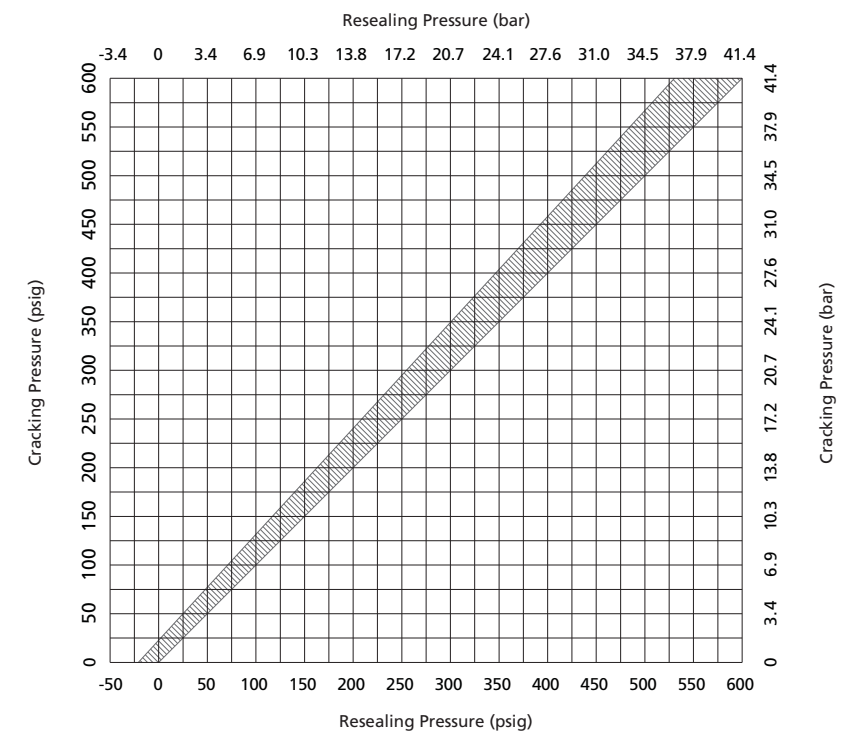
- All valves use silicone-based and molybdenum disulfide-based lubricant.
- Contact the authorized representative or FITOK Group for other materials.
- Springs with PTFE coating are available for CV, CH, CO, CA and COA series valves.
- Every valve is tested with nitrogen for leak-tight performance at its maximum working pressure.

Cracking Pressure and Resealing Pressure

Series	Nominal Cracking Pressure psig (bar)	Cracking Pressure Range psig (bar)	Resealing Pressure Range psig (bar)
CV	1/3 (0.02) 1 (0.06) 3 (0.21) 10 (0.68) 25 (1.7)	0 to 3 (0 to 0.21) 0 to 4 (0 to 0.28) 1 to 5 (0.06 to 0.34) 7 to 15 (0.49 to 1.1) 20 to 30 (1.4 to 2.1)	Up to 6 (0.42) downstream pressure Up to 6 (0.42) downstream pressure Up to 6 (0.42) downstream pressure 3 (0.21) or higher upstream pressure 17 (1.2) or higher upstream pressure
CH	1/3 (0.02) 1 (0.06) 3 (0.21) 10 (0.68) 25 (1.7)	0 to 3 (0 to 0.21) 0 to 4 (0 to 0.28) 1 to 5 (0.06 to 0.34) 7 to 15 (0.49 to 1.1) 20 to 30 (1.4 to 2.1)	Up to 6 (0.42) downstream pressure Up to 5 (0.35) downstream pressure Up to 2 (0.14) downstream pressure 3 (0.21) or higher upstream pressure 17 (1.2) or higher upstream pressure
CO	1/3 (0.02) 1 (0.06) 3 (0.21) 10 (0.68) 25 (1.7)	0 to 3 (0 to 0.21) 0 to 4 (0 to 0.28) 1 to 5 (0.06 to 0.34) 7 to 13 (0.49 to 0.9) 20 to 30 (1.4 to 2.1)	6 to 20 (0.42 to 1.4) downstream pressure 5 to 20 (0.35 to 1.4) downstream pressure 3 to 20 (0.21 to 1.4) downstream pressure 3 to 10 (0.21 to 0.68) downstream pressure 5 (0.35) or higher upstream pressure
CA	3 to 50 (0.21 to 3.4) 50 to 150 (3.4 to 10.3)	—————	Refer to the chart below
COA	150 to 350 (10.3 to 24.1) 350 to 600 (24.1 to 41.3)		
CL	—————	0 to 4 (0 to 0.28)	Up to 6 (0.42) downstream pressure
CW	—————	0 to 2 (0 to 0.14)	2 (0.14) or higher upstream pressure

Cracking Pressure and Resealing Pressure

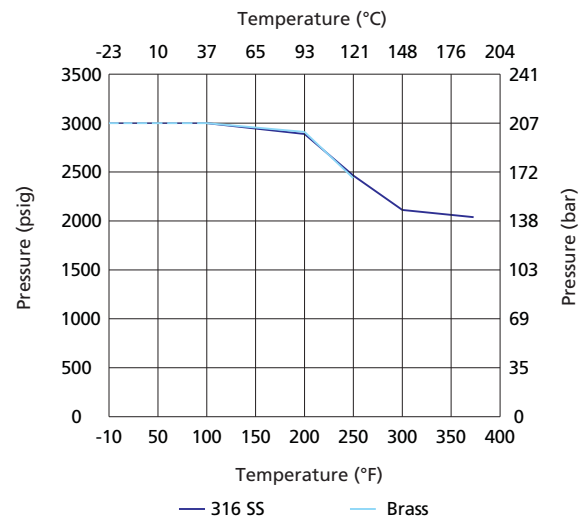
CA and COA Series



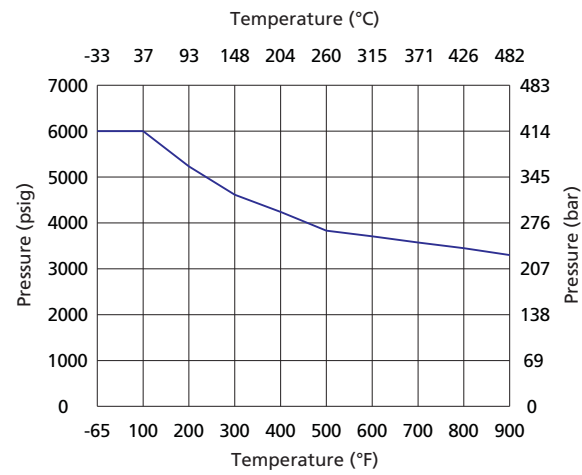
Pressure vs. Temperature

CV, CO, CA and COA Series

FKM Seat in 316 SS Body and Buna N in Brass Body

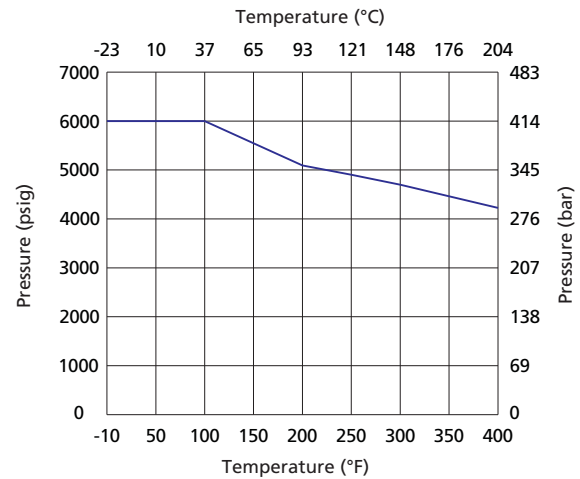


CL Series



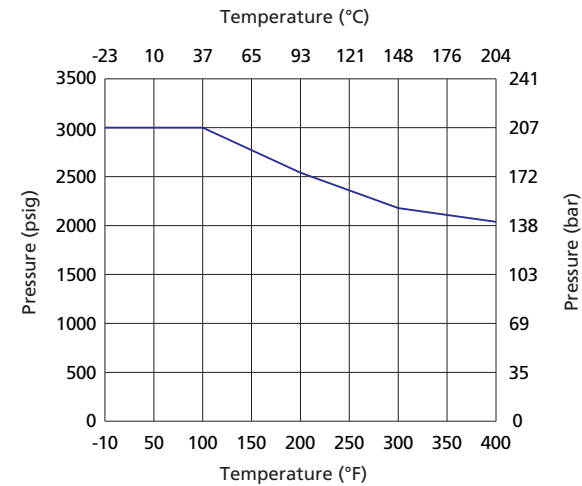
CH Series

FKM Seat in 316 SS Body



CW Series

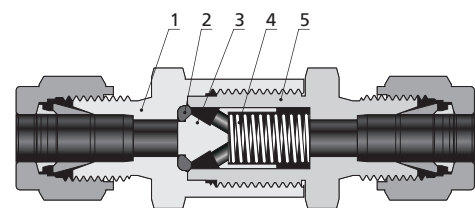
FKM Seat in 316 SS Body



Contact the authorized representative or FITOK Group for curve graph of other materials

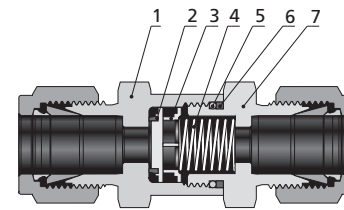
Standard Materials of Construction

CV Series



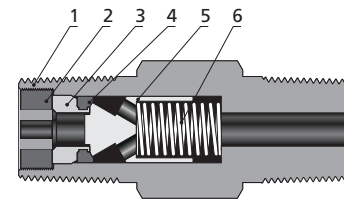
Component	Valve Material Grade/ASTM Specification	
	316 SS	Brass
1 Inlet Body	316 SS/A479	Brass C36000/B16
2 O-ring	Fluorocarbon FKM	Buna N
3 Poppet	316 SS/A479	Brass C36000/B16
4 Spring	302 SS/A313	302 SS/A313
5 Outlet Body	316 SS/A479	Brass C36000/B16

CH Series



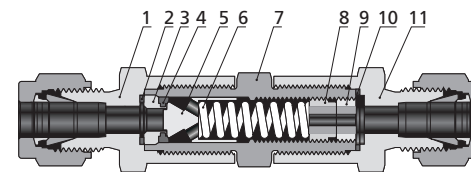
Component	Valve Material Grade/ASTM Specification	
	316 SS	Brass
1 Inlet Body	316 SS/A479	
2 Poppet	Fluorocarbon FKM - bonded 316 SS/A479	
3 Poppet Stop	316 SS/A240	
4 Spring	302 SS/A313	
5 O-ring	Fluorocarbon FKM	
6 Backup Ring	PTFE/D1710	
7 Outlet Body	316 SS/A479	

CO Series



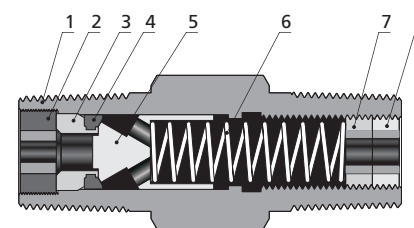
Component	Valve Material Grade/ASTM Specification	
	316 SS	Brass
1 Body	316 SS/A479	Brass C36000/B16
2 Insert Locking Screw	316 SS/A276 or A479	Brass C36000/B16
3 Insert	316 SS/A479	Brass C36000/B16
4 O-ring	Fluorocarbon FKM	
5 Poppet	316 SS/A479	Brass C36000/B16
6 Spring	302 SS/A313	302 SS/A313

CA Series



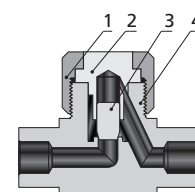
Component	Valve Material Grade/ASTM Specification	
	316 SS	Brass
1 Inlet Body	316 SS/A479	Brass C36000/B16
2 Inlet Gasket	PTFE-coated 316 SS/A240	PTFE-coated 316 SS/A240
3 Insert	316 SS/A479	Brass C36000/B16
4 O-ring	Fluorocarbon FKM	
5 Poppet	316 SS/A479	Brass C36000/B16
6 Spring	302 SS/A313	302 SS/A313
7 Center Body	316 SS/A479	Brass C36000/B16
8 Adjusting Screw	316 SS/A276	316 SS/A276
9 Locking Screw	316 SS/A276	316 SS/A276
10 Outlet Gasket	PTFE-coated 316 SS/A240	PTFE-coated 316 SS/A240
11 Outlet Body	316 SS/A479	Brass C36000/B16

COA Series



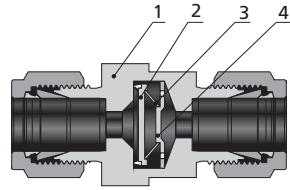
Component	Valve Material Grade/ASTM Specification	
	316 SS	Brass
1 Body	316 SS/A479	Brass C36000/B16
2 Insert Locking Screw	316 SS/A479	Brass C36000/B16
3 Insert	316 SS/A479	Brass C36000/B16
4 O-ring	Fluorocarbon FKM	
5 Poppet	316 SS/A479	Brass C36000/B16
6 Spring	302 SS/A313	302 SS/A313
7 Adjusting Screw	316 SS/A276	316 SS/A276
8 Locking Screw	316 SS/A276	316 SS/A276

CL Series



Component	Valve Material Grade/ASTM Specification	
	316 SS	Brass
1 Bonnet Nut	316 SS/A479	
2 Bonnet	316 SS/A479	
3 Poppet	S17400/A564	
4 Body	316 SS/A479	

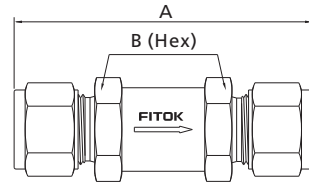
CW Series



Component	Valve Material Grade/ASTM Specification
1 Body	316L SS/A479
2 Poppet	Fluorocarbon FKM - bonded 316 SS/A479
3 Guidance Wafer	Alloy X - 750/B637
4 Poppet Stop	316L SS/A240

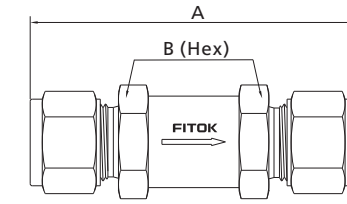
Dimensions

CV Series



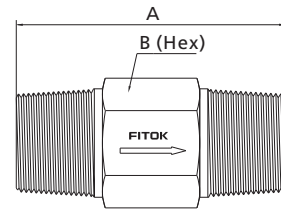
Basic Ordering Number	Connection Type and Size		CV	Body Size	Dimension, in. (mm)	
	Inlet	Outlet			A	B
CV□□-FL2-	1/8" FITOK	1/8" FITOK	0.10	4	2.14 (54.3)	5/8 (15.88)
CV□□-FL4-	1/4" FITOK	1/4" FITOK	0.47	4	2.35 (59.7)	
CV□□-FL6-	3/8" FITOK	3/8" FITOK	1.47	8	3.17 (80.5)	7/8 (22.23)
CV□□-FL8-	1/2" FITOK	1/2" FITOK	1.68	8	3.42 (86.9)	
CV□□-FL12-	3/4" FITOK	3/4" FITOK	4.48	12	4.32 (110)	1 1/4 (31.75)
CV□□-FL16-	1" FITOK	1" FITOK		12	4.74 (120)	1 3/8 (34.93)
CV□□-ML6-	6 mm FITOK	6 mm FITOK	0.47	4	2.36 (59.9)	5/8 (15.88)
CV□□-ML10-	10 mm FITOK	10 mm FITOK	1.68	8	3.32 (84.3)	7/8 (22.23)
CV□□-ML12-	12 mm FITOK	12 mm FITOK		8	3.42 (86.9)	
CV□□-FNS2-	1/8 Female NPT	1/8 Female NPT	0.10	4	1.89 (48.0)	5/8 (15.88)
CV□□-FNS4-	1/4 Female NPT	1/4 Female NPT	0.47	4	2.15 (54.6)	3/4 (19.05)
CV□□-FNS6-	3/8 Female NPT	3/8 Female NPT	1.47	8	2.98 (75.7)	7/8 (22.23)
CV□□-FNS8-	1/2 Female NPT	1/2 Female NPT	1.68	8	3.58 (90.9)	1 1/16 (26.99)
CV□□-FNS12-	3/4 Female NPT	3/4 Female NPT	4.48	12	4.08 (104)	1 1/4 (31.75)
CV□□-FNS16-	1 Female NPT	1 Female NPT		12	4.84 (123)	1 5/8 (41.28)
CV□□-NS2-	1/8 Male NPT	1/8 Male NPT	0.10	4	1.71 (43.4)	5/8 (15.88)
CV□□-NS4-	1/4 Male NPT	1/4 Male NPT	0.47	4	2.09 (53.1)	
CV□□-NS6-	3/8 Male NPT	3/8 Male NPT	1.47	8	2.78 (70.6)	7/8 (22.23)
CV□□-NS8-	1/2 Male NPT	1/2 Male NPT	1.68	8	3.16 (80.3)	
CV□□-NS12-	3/4 Male NPT	3/4 Male NPT	4.48	12	4.08 (104)	1 1/4 (31.75)
CV□□-NS16-	1 Male NPT	1 Male NPT		12	4.52 (115)	1 5/8 (41.28)
CV□□-FR4-	1/4" Male FR	1/4" Male FR	0.47	4	2.21 (56.1)	5/8 (15.88)
CV□□-FR8-	1/2" Male FR	1/2" Male FR	1.68	8	3.56 (90.4)	15/16 (23.81)
CV□□-FR12-	3/4" Male FR	3/4" Male FR	4.48	12	4.64 (118)	1 5/8 (41.28)
CV□□-FR16-	1" Male FR	1" Male FR		12	4.76 (121)	

CH Series



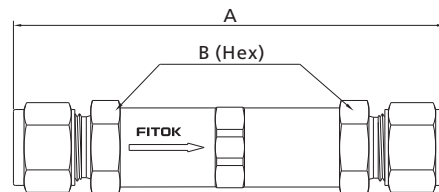
Basic Ordering Number	Connection Type and Size		Pressure Rating at 100° F (37° C) psig (bar)	CV	Body Size	Dimension, in. (mm)	
	Inlet	Outlet				A	B
CH□□-FL2-	1/8" FITOK	1/8" FITOK	414 (6000)	0.67	4	2.27 (57.7)	11/16 (17.46)
CH□□-FL4-	1/4" FITOK	1/4" FITOK			4	2.43 (61.7)	
CH□□-FL6-	3/8" FITOK	3/8" FITOK		1.8	8	2.75 (69.9)	1 (25.4)
CH□□-FL8-	1/2" FITOK	1/2" FITOK			8	2.96 (75.2)	
CH□□-FL12-	3/4" FITOK	3/4" FITOK	344 (5000)	4.7	16	3.52 (89.4)	1 5/8 (41.28)
CH□□-FL16-	1" FITOK	1" FITOK	323 (4700)		16	3.88 (98.6)	
CH□□-ML6-	6 mm FITOK	6 mm FITOK	414 (6000)	0.67	4	2.43 (61.7)	11/16 (17.46)
CH□□-ML8-	8 mm FITOK	8 mm FITOK			1.8	8	
CH□□-ML10-	10 mm FITOK	10 mm FITOK		4.7		8	2.80 (71.1)
CH□□-ML12-	12 mm FITOK	12 mm FITOK			8	2.96 (75.2)	
CH□□-ML22-	22 mm FITOK	22 mm FITOK	337 (4900)	4.7	16	3.48 (88.4)	1 5/8 (41.28)
CH□□-ML25-	25 mm FITOK	25 mm FITOK	316 (4600)		16	3.88 (98.6)	
CH□□-FNS4-	1/4 Female NPT	1/4 Female NPT	414 (6000)	0.67	4	2.13 (54.1)	11/16 (17.46)
CH□□-FNS6-	3/8 Female NPT	3/8 Female NPT	365 (5300)		1.8	8	
CH□□-FNS8-	1/2 Female NPT	1/2 Female NPT	337 (4900)	4.7		8	3.03 (77.0)
CH□□-FNS12-	3/4 Female NPT	3/4 Female NPT	316 (4600)		16	3.23 (82.0)	
CH□□-FNS16-	1 Female NPT	1 Female NPT	303 (4400)	4.7	16	3.83 (97.3)	1 5/8 (41.28)
CH□□-NS2-	1/8 Male NPT	1/8 Male NPT	414 (6000)		0.67	4	
CH□□-NS4-	1/4 Male NPT	1/4 Male NPT		4		2.17 (55.1)	
CH□□-NS6-	3/8 Male NPT	3/8 Male NPT		1.8	8	2.36 (59.9)	1 (25.4)
CH□□-NS8-	1/2 Male NPT	1/2 Male NPT			8	2.73 (69.3)	
CH□□-NS12-	3/4 Male NPT	3/4 Male NPT	344 (5000)	4.7	16	3.29 (83.6)	1 5/8 (41.28)
CH□□-NS16-	1 Male NPT	1 Male NPT			16	3.67 (93.2)	
CH□□-FRT4-	1/4 Female BSPT	1/4 Female BSPT	414 (6000)	0.67	4	2.28 (57.9)	11/16 (17.46)
CH□□-FRT8-	1/2 Female BSPT	1/2 Female BSPT	351 (5100)		1.8	8	
CH□□-FRT12-	3/4 Female BSPT	3/4 Female BSPT	330 (4800)	4.7		16	3.55 (90.2)
CH□□-FRT16-	1 Female BSPT	1 Female BSPT	303 (4400)		16	3.83 (97.3)	
CH□□-RT4-	1/4 Male BSPT	1/4 Male BSPT	414 (6000)	0.67	4	2.17 (55.1)	11/16 (17.46)
CH□□-RT8-	1/2 Male BSPT	1/2 Male BSPT			1.8	8	
CH□□-RT12-	3/4 Male BSPT	3/4 Male BSPT	344 (5000)	4.7		16	3.35 (85.1)
CH□□-RT16-	1 Male BSPT	1 Male BSPT			16	3.67 (93.2)	
CH□□-FR4-	1/4" Male FR	1/4" Male FR	414 (6000)	0.67	4	2.28 (57.9)	11/16 (17.46)
CH□□-FR8-	1/2" Male FR	1/2" Male FR	296 (4300)		1.8	8	
CH□□-FR12-	3/4" Male FR	3/4" Male FR	254 (3700)	4.7		16	3.78 (96.0)
CH□□-FO4-	1/4" Male FO	1/4" Male FO	414 (6000)		0.67	4	1.98 (50.3)
CH□□-FO8-	1/2" Male FO	1/2" Male FO		1.8		8	2.35 (59.7)
CH□□-FO12-	3/4" Male FO	3/4" Male FO	344 (5000)		4.7	16	2.90 (73.7)
CH□□-FO16-	1" Male FO	1" Male FO		16			

CO Series



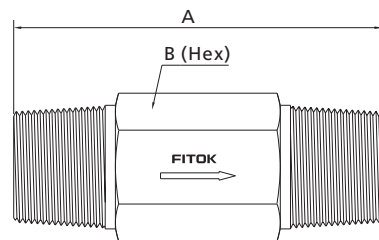
Basic Ordering Number	Connection Type and Size		Cv	Body Size	Dimension, in. (mm)	
	Inlet	Outlet			A	B
CO□□-FNS4-	1/4 Female NPT	1/4 Female NPT	0.35	4	2.41 (61.2)	3/4 (19.05)
CO□□-FNS8-	1/2 Female NPT	1/2 Female NPT	1.20	8	3.71 (94.2)	1 1/16 (26.99)
CO□□-NS4-	1/4 Male NPT	1/4 Male NPT	0.35	4	1.62 (41.1)	9/16 (14.29)
CO□□-NS8-	1/2 Male NPT	1/2 Male NPT	1.20	8	2.28 (57.9)	7/8 (22.23)
CO□□-FRT4-	1/4 Female BSPT	1/4 Female BSPT	0.35	4	2.54 (64.5)	3/4 (19.05)
CO□□-RT4-	1/4 Male BSPT	1/4 Male BSPT			1.62 (41.1)	9/16 (14.29)

CA Series



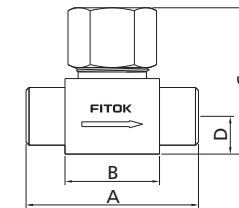
Basic Ordering Number	Connection Type and Size		Cv	Body Size	Dimension, in. (mm)	
	Inlet	Outlet			A	B
CA□□-FL4-	1/4" FITOK	1/4" FITOK	0.37	4	3.23 (82.0)	5/8 (15.88)
CA□□-ML6-	6 mm FITOK	6 mm FITOK			3.32 (84.3)	
CA□□-ML8-	8 mm FITOK	8 mm FITOK			3.09 (78.5)	
CA□□-FR4-	1/4" Male FR	1/4" Male FR				

COA Series



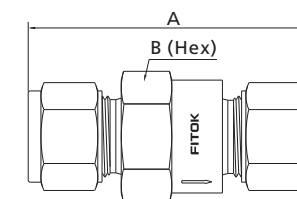
Basic Ordering Number	Connection Type and Size		Cv	Body Size	Dimension, in. (mm)	
	Inlet	Outlet			A	B
COA□□-FNS4-	1/4 Female NPT	1/4 Female NPT	0.35	4	2.98 (75.7)	3/4 (19.05)
COA□□-NS4-	1/4 Male NPT	1/4 Male NPT	0.35	4	1.62 (41.1)	9/16 (14.29)
COA□□-NS8-	1/2 Male NPT	1/2 Male NPT	1.20	8	2.56 (65.0)	7/8 (22.23)
COA□□-RT4-	1/4 Male BSPT	1/4 Male BSPT	0.35	4	1.62 (41.1)	9/16 (14.29)
COA□□-RT8-	1/2 Male BSPT	1/2 Male BSPT	1.20	8	2.56 (65.0)	7/8 (22.23)

CL Series



Basic Ordering Number	Connection Type and Size		Cv	Dimension, in. (mm)			
	Inlet	Outlet		A	B	C	D
CL□□-FL4	1/4" FITOK	1/4" FITOK	0.30	2.40 (61.0)	1.01 (25.7)	1.47 (37.3)	0.39 (9.9)
CL□□-FL6	3/8" FITOK	3/8" FITOK	0.64	2.83 (71.9)	1.31 (33.3)	1.85 (47.0)	0.50 (12.7)
CL□□-FL8	1/2" FITOK	1/2" FITOK	2.20	3.92 (99.6)	2.19 (55.6)	2.44 (62.0)	0.62 (15.7)
CL□□-FI12	3/4" FITOK	3/4" FITOK					
CL□□-ML6	6 mm FITOK	6 mm FITOK	0.30	2.40 (61.0)	1.01 (25.7)	1.47 (37.3)	0.39 (9.9)
CL□□-FNS2	1/8 Female NPT	1/8 Female NPT					
CL□□-FNS4	1/4 Female NPT	1/4 Female NPT	0.64	2.25 (57.2)	1.25 (31.8)	1.85 (47.0)	0.50 (12.7)
CL□□-FNS6	3/8 Female NPT	3/8 Female NPT	2.20	3.12 (79.2)	1.86 (47.2)	2.44 (62.0)	0.62 (15.7)
CL□□-FNS8	1/2 Female NPT	1/2 Female NPT					
CL□□-TS4	1/4" TS	1/4" TS	0.30	1.81 (46.0)	0.9 (22.9)	1.47 (37.3)	0.39 (9.9)
CL□□-TS6	3/8" TS	3/8" TS	0.64	2.25 (57.2)	1.25 (31.8)	1.85 (47.0)	0.50 (12.7)
CL□□-TS8	1/2" TS	1/2" TS	2.20	3.13 (79.5)	1.88 (47.8)	2.44 (47.0)	0.62 (15.7)
CL□□-PB4	1/4 PB	1/4 PB	0.30	1.81 (46.0)	0.9 (22.9)	1.47 (37.3)	0.39 (9.9)
CL□□-PB6	3/8 PB	3/8 PB	0.64	2.25 (57.2)	1.25 (31.8)	1.85 (47.0)	0.50 (12.7)
CL□□-PB8	1/2 PB	1/2 PB	2.20	3.13 (79.5)	1.88 (47.8)	2.44 (62.0)	0.62 (15.7)

CW Series



Basic Ordering Number	Connection Type and Size		Cv	Dimension, in. (mm)	
	Inlet	Outlet		A	B
CW□□-TB4	1/4" TB	1/4" TB	0.55	1.24 (31.5)	7/8 (22.23)
CW□□-TB6	3/8" TB	3/8" TB	0.70		
CW□□-TB8	1/2" TB	1/2" TB			
CW□□-MTB6	6 mm MTB	6 mm MTB	0.55		
CW□□-FR4	1/4" Male FR	1/4" Male FR	0.70	1.80 (45.7)	
CW□□-FR8	1/2" Male FR	1/2" Male FR	0.70	2.06 (52.3)	1 (25.4)
CW□□-FL4	1/4" FITOK	1/4" FITOK	0.55	1.96 (49.8)	7/8 (22.23)
CW□□-ML6	6 mm FITOK	6 mm FITOK	0.55		

1. FITOK means FITOK double ferrule tube fittings, FO means O-ring seal fittings, FR means metal gasket seal fittings, TB means fractional tube butt weld, MTB means metric tube butt weld, TS means fractional tube socket weld, PB means pipe butt weld.
2. Sizes and types listed are standard. Other sizes and types are available upon request. For special sizes and types, refer to ordering information.
3. Dimensions shown with FITOK nuts finger-tightened. All dimensions are for reference only and are subject to change. For dimensions not shown above, contact the authorized representative or FITOK Group.

Flow Data at 70°F (20°C)

CV Series

Inlet Pressure (psig)	Air Flow (std L/min)	Cracking Pressure (psig)					
		Cv = 0.10			Cv = 0.47		
		1	10	25	1	10	25
5	10	--	--	114	--	--	
10	29	--	--	157	36	--	
12.5	38	11	--	176	150	--	
15	48	23	--	196	170	--	
25	72	62	2	253	--	18	
30	78	--	17	279	--	146	
35	85	--	34	309	--	330	
50	103	--	77	402	--	--	
80	144	--	136	580	--	--	
100	171	--	160	700	--	--	

Inlet Pressure (psig)	Air Flow (std L/min)	Cracking Pressure (psig)					
		Cv = 1.47			Cv = 1.68		
		1	10	25	1	10	25
5	325	--	--	460	--	--	
10	623	--	--	747	--	--	
15	832	377	--	916	475	--	
25	1146	800	32	1255	939	40	
35	1440	1150	509	1594	1347	654	
50	1879	1686	1072	2101	1960	1230	
80	2761	2756	2087	--	--	2400	
100	--	--	2763	--	--	--	

Inlet Pressure (psig)	Air Flow (std L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 4.48		
5	468	--	--	
10	975	--	--	
15	1208	491	--	
20	1435	945	--	
25	1658	1232	--	
35	2122	1826	1059	
50	2800	2678	1905	
60	--	--	2454	

Pressure Drop (psig)	Water Flow (L/min)	Cracking Pressure (psig)					
		Cv = 0.10			Cv = 0.47		
		1	10	25	1	10	25
5	0.3	--	--	2.1	--	--	
10	1.2	--	--	6.1	--	--	
12.5	1.4	0.3	--	6.5	6.5	--	
15	1.6	0.7	--	6.9	6.9	--	
20	1.9	1.2	--	7.8	7.8	--	
27.5	2.3	1.7	0.2	--	--	1.2	
35	2.6	2.3	0.9	--	--	5.0	
40	2.8	2.4	1.3	--	--	7.5	
70	3.6	3.5	3.3	--	--	--	
80	3.8	3.8	3.8	--	--	--	

Pressure Drop (psig)	Water Flow (L/min)	Cracking Pressure (psig)					
		Cv = 1.47			Cv = 1.68		
		1	10	25	1	10	25
2.5	4.6	--	--	7.4	--	--	
5	8.3	--	--	13.5	--	--	
10	17.5	--	--	22.6	--	--	
11	--	3.3	--	--	6.8	--	
12.5	--	7.7	--	--	12.9	--	
15	--	13.1	--	--	20.0	--	
20	--	20.0	--	--	--	--	
27.5	--	--	2.2	--	--	7.3	
30	--	--	4.4	--	--	12	
35	--	--	8.8	--	--	19.5	

Pressure Drop (psig)	Water Flow (L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 4.48		
2.5	29.5	--	--	
5	45.0	--	--	
10	59.3	--	--	
12.5	65.8	65.8	--	
15	72.3	72.3	--	
20	85.4	85.4	--	
25.5	--	--	22	
26	--	--	48	
27	--	--	90	

CH Series

Inlet Pressure (psig)	Air Flow (std L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 0.67		
5	8	--	--	
10	80	--	--	
25	160	200	--	
40	180	200	--	
60	600	390	180	
80	900	880	640	
95	1200	1060	830	
110	--	1240	1020	
128	--	1400	1200	
140	--	--	1340	

Inlet Pressure (psig)	Air Flow (std L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 1.8		
2	--	--	--	
10	620	--	--	
25	1140	520	--	
30	1320	720	190	
40	1620	1130	590	
50	1940	1520	1000	
60	2250	1900	1400	
78	2800	2520	2080	
86	--	2800	2430	
97	--	--	2800	

Inlet Pressure (psig)	Air Flow (std L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 4.7		
5	520	--	--	
10	940	--	--	
15	1240	540	--	
20	1560	880	--	
25	1620	1100	--	
30	1800	1325	420	
35	2080	1520	720	
40	2800	1760	980	
50	2280	2240	1800	
60	2560	2650	2280	

Pressure Drop (psig)	Water Flow (L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 0.67		
1	0.2	--	--	
6	1.9	--	--	
10	5.7	--	--	
12	7.5	0.2	--	
20	--	1.4	--	
26	--	2.9	--	
36	--	7.5	0.9	
50	--	--	3.4	
60	--	--	5.6	
68	--	--	7.5	

Pressure Drop (psig)	Water Flow (L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 1.8		
1.5	--	--	--	
5.0	14.4	--	--	
7.5	20.4	--	--	
10.0	22.5	--	--	
15	--	2.0	--	
20	--	7.0	--	
22	--	22.5	--	
30	--	--	0.7	
40	--	--	2.6	
45	--	--	22.5	

Pressure Drop (psig)	Water Flow (L/min)	Cracking Pressure (psig)		
		1	10	25
		Cv = 4.7		
2.5	32	--	--	
5.0	48	--	--	
7.5	58	--	--	
10.0	68	--	--	
11.0	75	10	--	
12.0	86	75	--	
30.0	--	--	8	
32.5	--	--	13	
35.0	--	--	21	
38.0	--	--	86	

CO Series

Air Flow (std L/min)	Cracking Pressure (psig)		
	1	10	25
	Cv = 0.35		
12.5	85	--	--
25	201	121	--
50	400	327	212
75	600	539	431
100	800	750	653
112.5	--	--	750

Air Flow (std L/min)	Cracking Pressure (psig)		
	1	10	25
	Cv = 1.2		
10	366	--	--
20	679	325	--
30	1027	706	237
40	1351	1064	664
50	1692	1433	1122
60	2924	1814	1561

CA Series

Air Flow (std L/min)	Cracking Pressure (psig)			
	3	50	150	350
	Cv = 0.37			
50	459	35	--	--
150	1424	851	40	--
250	2182	1769	440	--
350	--	2800	914	--
400	--	--	1173	303
500	--	--	1785	914
600	--	--	2583	1512
700	--	--	--	2121

CL Series

Air Flow (std L/min)	Cracking Pressure (psig)		
	Cv = 0.30	Cv = 0.64	Cv = 2.20
0.2	10	32	96
2	37	91	350
20	146	461	1040
100	525	1404	3523
200	800	2508	5485
400	1495	4246	--
600	2197	5353	--
1000	3842	--	--

Water Flow (L/min)	Cracking Pressure (psig)		
	1	10	25
	Cv = 0.35		
7.5	2.6	--	--
15	5.3	0.9	--
22.5	7.7	2.9	--
30	--	5	0.6
60	--	--	3.7
90	--	--	6.7

Water Flow (L/min)	Cracking Pressure (psig)		
	1	10	25
	Cv = 1.2		
5	10.3	--	--
7.5	14.1	--	--
10	17.3	--	--
15	--	2.3	--
30	--	13.2	1.0
37.5	--	17.8	2.6
75	--	--	9.8

Water Flow (L/min)	Cracking Pressure (psig)			
	3	50	150	350
	Cv = 0.37			
12.5	1.7	--	--	--
25	4.3	--	--	--
37.5	6.6	--	--	--
75	--	1.9	--	--
150	--	6.4	--	--
175	--	7.6	0.8	--
250	--	--	3.8	--
350	--	--	8.0	--
400	--	--	--	1.8
500	--	--	--	5.1
550	--	--	--	6.7

Water Flow (L/min)	Cracking Pressure (psig)		
	Cv = 0.30	Cv = 0.64	Cv = 2.20
0.2	0.5	1.3	3.8
2	1.6	4.0	13.2
20	5.1	13.3	38.2
100	11.7	28.9	85.3
200	16.8	38.5	--
400	23.0	53.6	--
600	29.1	67.0	--
1000	34.5	81.8	--

COA Series

Air Flow (std L/min)	Cracking Pressure (psig)			
	3	50	150	350
	Cv = 0.35			
50	323	--	--	--
150	1165	841	--	--
250	2039	1769	615	--
300	2425	2800	890	--
400	--	--	1502	246
500	--	--	2098	726
600	--	--	2692	1207
700	--	--	--	1700

Air Flow (std L/min)	Cracking Pressure (psig)			
	3	50	150	350
	Cv = 1.2			
25	498	--	--	--
50	1553	--	--	--
75	2162	615	--	--
125	--	1682	--	--
175	--	2758	763	--
250	--	--	1859	--
300	--	--	2634	--
350	--	--	--	155
400	--	--	--	1665
450	--	--	--	2382

CW Series

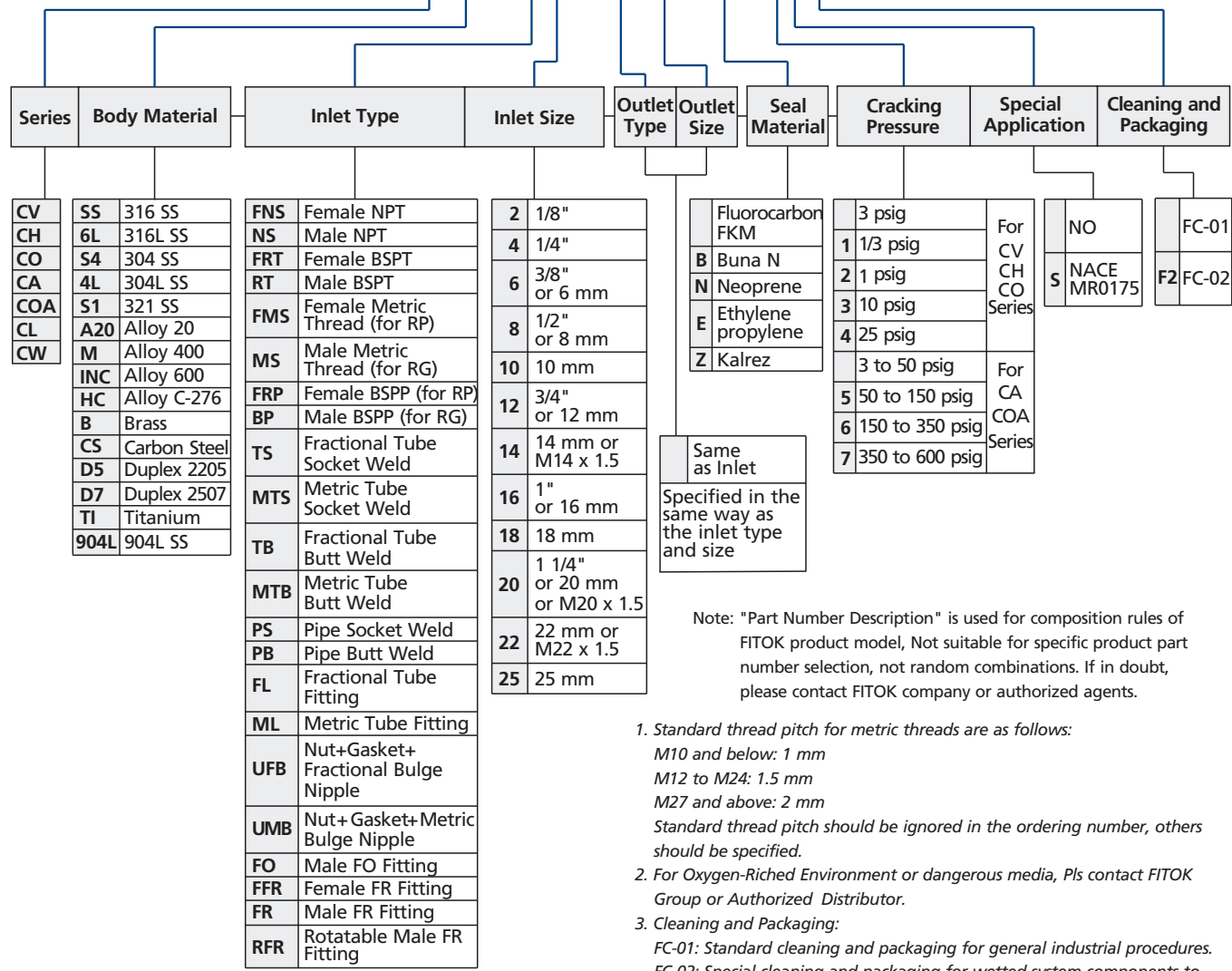
Air Flow (std L/min)	Cv = 0.55	Cv = 0.70
	0.1	9.5
0.2	14	34
0.4	20	50
0.6	26	64
1.0	35	85
2	56	130
4	86	190
6	140	470
10	170	590
50	450	1040

Water Flow (L/min)	Cracking Pressure (psig)			
	3	50	150	350
	Cv = 0.35			
12.5	1.5	--	--	--
25	4.1	--	--	--
37.5	6.4	--	--	--
75	--	1.8	--	--
150	--	6.3	--	--
175	--	7.5	1.1	--
250	--	--	4.5	--
350	--	--	8.6	--
400	--	--	--	1.8
500	--	--	--	5.1
550	--	--	--	6.7

Water Flow (L/min)	Cracking Pressure (psig)			
	3	50	150	350
	Cv = 1.2			
12.5	3.0	--	--	--
25	9.3	--	--	--
37.5	15.2	--	--	--
75	--	5.3	--	--
150	--	17.6	--	--
175	--	21.4	2.5	--
250	--	--	10.3	--
350	--	--	20.2	--
400	--	--	--	4.4
500	--	--	--	13.3
550	--	--	--	21.5

Part Number Description

CVSS - FL8 - ML10 - B - 2SF2

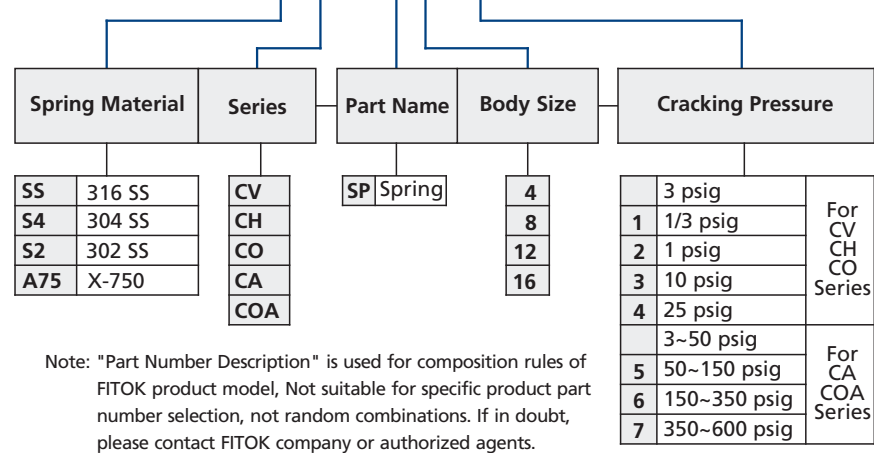


Note: "Part Number Description" is used for composition rules of FITOK product model, Not suitable for specific product part number selection, not random combinations. If in doubt, please contact FITOK company or authorized agents.

- Standard thread pitch for metric threads are as follows:
 M10 and below: 1 mm
 M12 to M24: 1.5 mm
 M27 and above: 2 mm
 Standard thread pitch should be ignored in the ordering number, others should be specified.
- For Oxygen-Rich Environment or dangerous media, Pls contact FITOK Group or Authorized Distributor.
- Cleaning and Packaging:
 FC-01: Standard cleaning and packaging for general industrial procedures.
 FC-02: Special cleaning and packaging for wetted system components to ensure compliance with product cleanliness requirement as stated in ASTM G93 Level C.

Part Number Description

SSCV - SP8 - 2



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