Check Valves

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



Features

CV Series

- O Resilient O-ring seat design for leak free sealing
- Working pressure up to: 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)
- O Variety of end connections and materials available
- Fixed cracking pressure, mountable in any directions

CH Series

- Seat ring continuously cleaned by media, avoiding secondary pollution
- Working pressure up to: 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)
- O Variety of end connections and materials available
- Fixed cracking pressure, mountable in any directions

CO Series

- Compact design, one piece body
- Working pressure up to: 3000 psig (207 bar)
- Working temperature: -10°F to 375°F (-23°C to 190°C)
- O Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- O Variety of end connections and materials available
- Fixed cracking pressure, mountable in any directions

CA Series

- Working pressure up to: 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
- Various springs available
- O Adjustable cracking pressure, mountable in any directions

COA Series

- Compact design, one-piece body
- Working pressure up to: 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)
- O Variety of end connections and materials available
- O Various springs available
- O Adjustable cracking pressure, mountable in any directions

CL Series

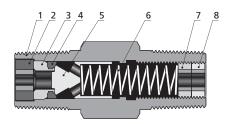
- Working pressure up to: 6000 psig (414 bar)
- Working temperature: -65°F to 900°F (-53°C to 482°C)
- © Rugged, all-stainless steel construction
- Union bonnet design, all-stainless steel structure, horizontal installation with bonnet nut on top
- Reverse flow coefficient less than 0.1% of forward flow coefficient

CW Series

- Working pressure up to: 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
- © Standard or fine polished wetted surfaces optional
- 1. Besides CL series, other check valves are all coated with lubricants like silicone base and molybdenum disulfide base.
- Please contact FITOK Group or our authorized distributors for other materials.
- PTFE-coated spring is an option for CV, CO, CA, and COA series check valves. For more details, please contact FITOK Group or our authorized distributors.
- 4. Every valve is tested with nitrogen for leak-tight performance at its maximum working pressure.

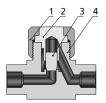


COA Series



Component		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	Buna N		
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		

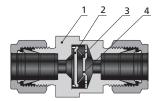
CL Series





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

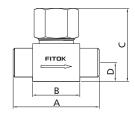
CW Series



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



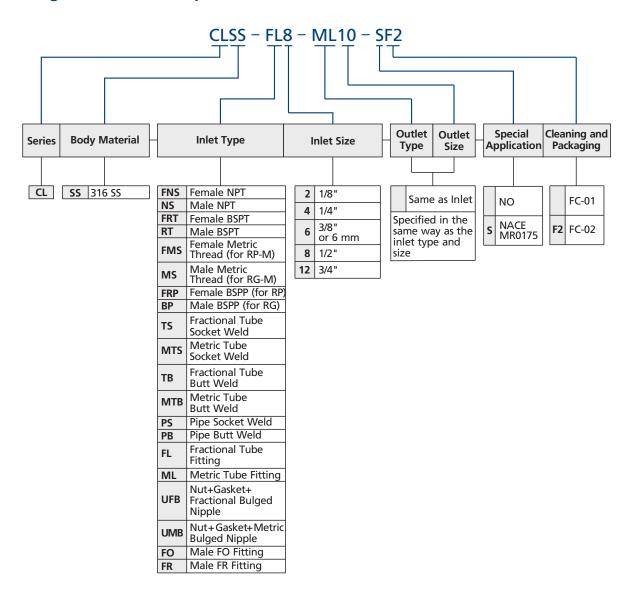
CL Series



Basic	Connection Type and Size		<u> </u>	Dimensions, in. (mm)			
Ordering Number	Inlet	Outlet	Cv	Α	В	С	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□□-FL12	3/4" FITOK	3/4" FITOK	2.20				
CL□□-ML6	6 mm FITOK	6 mm FITOK		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	0.30	2.00 (50.8)	1.00 (25.4)	1.47 (37.3)	0.39 (9.9)
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)	0.90 (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)	0.90 (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)



Ordering Number Description



1. 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 omitted in the ordering number, others should be specified.

- 2. For oxygen-enriched environment or hazardous media service, please contact FITOK Group or our authorized distributors.
- 3. 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 of ASTM G93 Level C.

4. The materials, connection types and sizes listed in the "Ordering Number Description" are standard. For other materials and end connections, please contact FITOK Group or our authorized distributors.

