All-Welded Check Valves CW Series

Introduction

CW Series All-Welded Check Valves are suitable for high purity and ultra high purity applications. All-welded construction offers reliable control of system media, featuring low cracking pressure and low resealing pressure. This ensures sensitive and precise control of flow direction within the flow path.



Features

- O Internally threadless and all-welded design
- ◎ Forward flow starts at less than 2 psig (0.14 bar) pressure differential
- \odot Standard surface roughness finished to an average of Ra 20 µin. (0.5 µm) or electropolished to Ra 10 µin. (0.25 µm) optional
- Variety of end connections available

Technical Data

1/4" to 1/2" or 6 mm to 12 mm
0.55 or 0.70
Less than 2 psig (0.14 bar)
3000 psig (207 bar)
145 psig (10 bar)
-10 ~ 400 °F (-23 ~ 204 °C)

① For valves not actuated for a period of time, initial cracking pressure may be higher than the set cracking pressure.

Flow Data

Air @ 70 °F (21 °C)

Pressure Drop to Atmosphere psig (bar)	Cv 0.55 (I/min)	Cv 0.70 (l/min)
10 (0.68)	170	220
50 (3.4)	450	590
100 (6.8)	820	1040

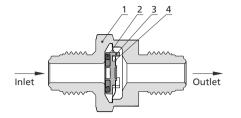
Process Specification

Process Specification Item	Standard Cleaning and Packaging (FC-01) Special Cleaning and Packaging (FC-02)	Ultra High Purity (FC-03)	
Material	316L SS	316L SS, 316L SS VAR	
Wetted Surface Roughness	Ra 20 μin. (0.5 μm)	Ra 10 μin. (0.25 μm)	
Polishing Process	Machine finished	Electropolished	

Notes: Refer to page P-01 for a detailed description of Process Specification.



Major Materials of Construction

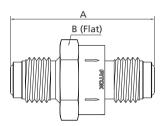


	ltem	Material Grade/ASTM Specification
	Body	316L SS or 316L SS VAR
2	Seal	FKM and 316L SS or 316L SS VAR
3	Belleville Spring	N06022/ASTM B575
4	Stop	316L SS or 316L SS VAR

Note: Check valves are designed for directional flow control only and should never be used as code safety relief devices.

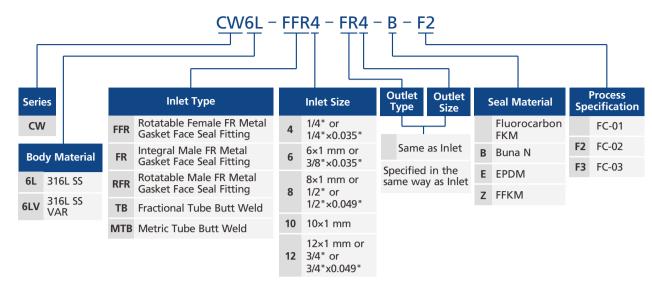
Dimensions and Ordering Information

Dimensions, in inches (millimeters), are for reference only.



Basic Ordering Number	Connection Type and Size		Cv	Dimensions, in. (mm)	
	Inlet	Outlet	CV	Α	В
CW□□-TB4	1/4"×0. 035" Tube Butt Weld	1/4"×0. 035" Tube Butt Weld	0.55		7/8 (22.22)
CW□□-TB6	3/8"×0. 035" Tube Butt Weld	3/8"×0. 035" Tube Butt Weld	0.70		
CW□□-TB8	1/2"×0. 049" Tube Butt Weld	1/2"×0. 049" Tube Butt Weld			
CW□□-MTB6	6×1 mm Tube Butt Weld	6×1 mm Tube Butt Weld	0.55		
CW□□-FR4	1/4" Integral Male FR Metal Gasket Face Seal Fitting	1/4" Integral Male FR Metal Gasket Face Seal Fitting	0.70	1.80 (45.7)	
CW□□-FR8	1/2" Integral Male FR Metal Gasket Face Seal Fitting	1/2" Integral Male FR Metal Gasket Face Seal Fitting	0.70	2.06 (52.3)	1 (25.4)

Ordering Number Description



Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number.

Not all combinations are available, Should you have any questions, please contact FITOK Group or our authorized distributors.

