

Bellows-Sealed Valves

SW and SU Series

Bellows-Sealed
Valves



FITOK

Contents

Bellows-Sealed Valves

SW Series

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Bellows-Sealed Valves

SU Series

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Notes:

- ⦿ Packing may need to be adjusted during the use of SU series bellows-sealed valves.
- ⦿ For better maintenance, FITOK bellows-sealed valves should be stored in the half-open position.

Bellows-Sealed Valves

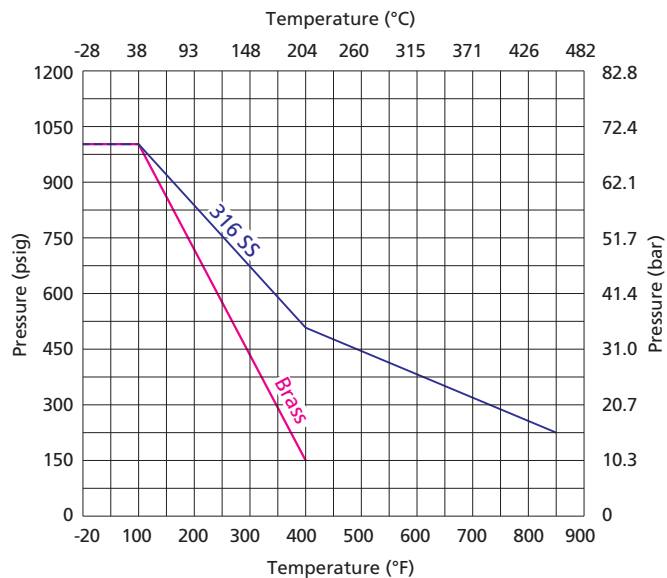
SW Series

Features

- Working pressure up to: 1000 psig (69.0 bar)
- Working temperature: -20°F to 842°F (-28°C to 450°C)
- Variety of end connections
- Body material: 316 SS, brass
- Hydraulic-formed multilayer bellows for longer cycle life
- Nonrotating stem tip eliminates galling within the seat area
- Externally pressurized bellows design for maximum strength
- Strictly controlled bellows stroke to improve safety and cycle life
- Replaceable bellows and stem tip assembly
- Regulating, conical and spherical stem tips available
- Handle color options are available
- Panel and bottom mounting available
- Every FITOK bellows-sealed valve leak tested with helium at the seat, envelope and all seals (maximum allowable leak rate: 4×10^{-9} std cm³/s)



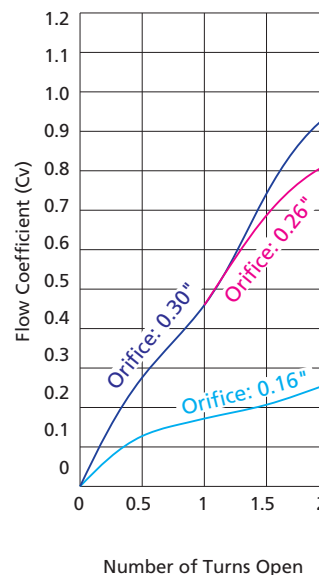
Pressure vs. Temperature



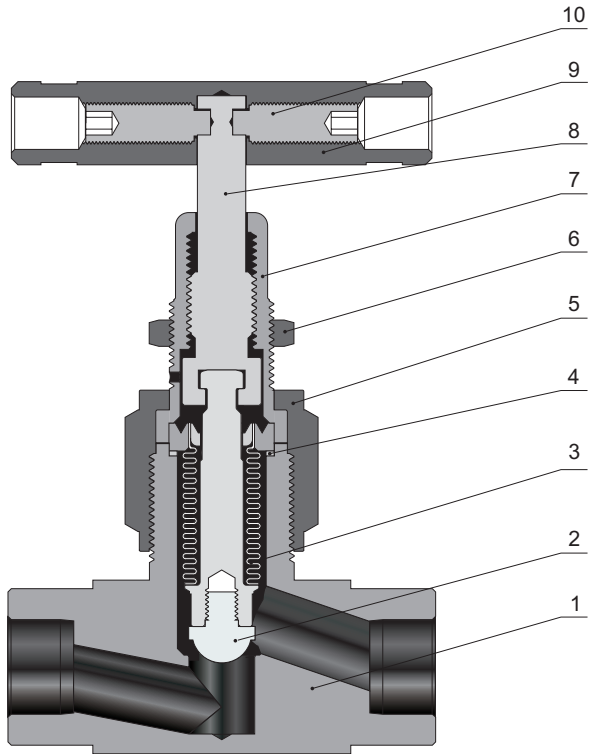
200°F (93°C) max. with PCTFE stem tip (soft tip).

Flow Coefficient vs. Turns Open

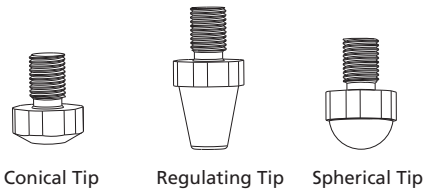
Regulating Stem



Standard Materials of Construction



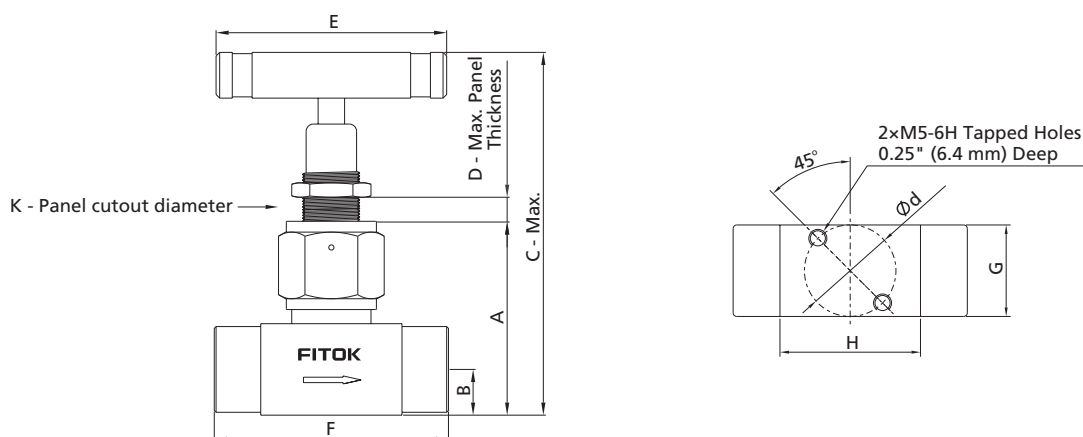
Tip Types



Valve Body Material Grade/ASTM Specification				
Component			316 SS	Brass
1	Body		316 SS/A182	Brass/B283
2	Stem Tip	Regulating	316 SS/A479 or Stellite	
		Conical	PCTFE/D1430 or 316 SS/A479 or Stellite	
		Spherical	Stellite	
3	Bellows		316L SS/A240	
	Lower Stem		316 SS/A479	
	Weld Ring		316 SS/A479	
4	Gasket		Silver-plated 316 SS/A269	
5	Bonnet Nut		316 SS/A479	Brass/B16
6	Panel Mount Nut		Stainless steel	Brass/B16
7	Bonnet		316 SS/A479	Brass/B16
8	Upper Stem		316 SS/A479	316 SS/A479
9	Handle		6061/B211 or stainless steel	
10	Set Screws		Zinc-plated carbon steel	
Non-wetted Lubricant			Molybdenum disulfide	

Contact FITOK Group or our authorized distributors for valves of other materials.

Dimensions



Basic Ordering Number	Connection Type and Size		Orifice in. (mm)	Cv	Dimensions, in. (mm)									
	Inlet	Outlet			A	B	C	D	E	F	G	H	K	Ød
SW□□-FL4-2-	1/4" FITOK		0.16 (4.1)	0.36	2.16 (54.8)	0.54 (13.7)	4.05 (102.8)	0.39 (10.0)	2.50 (63.5)	2.46 (62.5)	1.00 (25.4)	1.06 (26.9)	0.65 (16.4)	1.00 (25.4)
SW□□-FL6-3-	3/8" FITOK		0.26 (6.6)	0.85	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	3.09 (78.5)	1.10 (25.4)	1.57 (39.9)	0.65 (16.4)	1.00 (25.4)
SW□□-FL8-5-	1/2" FITOK		0.30 (7.6)	1.20	2.16 (54.8)	0.54 (13.7)	4.05 (102.8)	0.39 (10.0)	2.50 (63.5)	3.30 (83.8)	1.13 (25.4)	1.57 (40.0)	0.65 (16.4)	1.00 (25.4)
SW□□-ML6-2-	6 mm FITOK		0.16 (4.1)	0.36	2.16 (54.8)	0.54 (13.7)	4.05 (102.8)	0.39 (10.0)	2.50 (63.5)	2.46 (62.5)	1.00 (25.4)	1.07 (27.1)	0.65 (16.4)	1.00 (25.4)
SW□□-ML10-4-	10 mm FITOK		0.28 (7.1)	1.00	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	3.11 (79.0)	1.00 (25.4)	1.57 (39.8)	0.65 (16.4)	1.00 (25.4)
SW□□-ML12-5-	12 mm FITOK		0.30 (7.6)	1.20	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	3.30 (83.8)	1.00 (25.4)	1.57 (39.8)	0.65 (16.4)	1.00 (25.4)
SW□□-TS4-2-	1/4" Tube Socket Weld		0.16 (4.1)	0.36	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	1.68 (42.7)	1.00 (25.4)	1.00 (25.4)	0.65 (16.4)	1.00 (25.4)
SW□□-TS6-4-	3/8" Tube Socket Weld		0.28 (7.1)	1.00	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	2.27 (57.7)	1.00 (25.4)	1.51 (38.4)	0.65 (16.4)	1.00 (25.4)
SW□□-TS8-5-	1/2" Tube Socket Weld		0.30 (7.6)	1.20	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	2.27 (57.7)	1.00 (25.4)	1.25 (31.7)	0.65 (16.4)	1.00 (25.4)
SW□□-TB8-3-	1/2x0.095" Tube Butt Weld		0.26 (6.6)	0.85	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	2.27 (57.7)	1.00 (25.4)	1.48 (37.7)	0.65 (16.4)	1.00 (25.4)
SW□□-FFR4-2-	1/4" Female FR		0.16 (4.1)	0.36	2.16 (54.8)	0.54 (13.7)	4.05 (102.8)	0.39 (10.0)	2.50 (63.5)	2.76 (70.1)	1.00 (25.4)	1.02 (25.8)	0.65 (16.4)	1.00 (25.4)
SW□□-FFR8-5-	1/2" Female FR		0.30 (7.6)	1.20	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	3.12 (79.2)	1.00 (25.4)	1.25 (31.75)	0.65 (16.4)	1.00 (25.4)
SW□□-FR4-2-	1/4" Male FR		0.16 (4.1)	0.36	2.16 (54.8)	0.54 (13.7)	4.05 (102.8)	0.39 (10.0)	2.50 (63.5)	2.24 (56.9)	1.00 (25.4)	1.00 (25.4)	0.65 (16.4)	1.00 (25.4)
SW□□-FR8-5-	1/2" Male FR		0.30 (7.6)	1.20	2.20 (55.8)	0.54 (13.7)	4.09 (103.8)	0.39 (10.0)	2.50 (63.5)	3.00 (76.2)	1.13 (28.7)	1.50 (38.1)	0.65 (16.4)	1.00 (25.4)

1. FITOK means FITOK double ferrule tube fittings, FR means metal gasket seal fittings.
2. Valve dimensions of FITOK tube fittings in port types listed are dimensions when nuts are finger-tightened. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.
3. Sizes and types listed are standard. Other sizes and types are available upon request. For special sizes and types, please contact FITOK Group or our authorized distributors.

Pneumatic Actuators



Features

- ◎ Low actuation pressure
- ◎ Opens and closes quickly and reliably
- ◎ Rotatable port for normally closed actuators allows easy installation
- ◎ Normally open actuators black capped for identification

Actuation Modes

- ◎ Normally closed—air opens, spring closes
- ◎ Normally open—air closes, spring opens

Technical Data

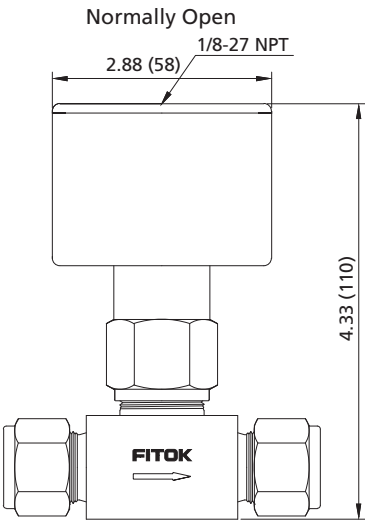
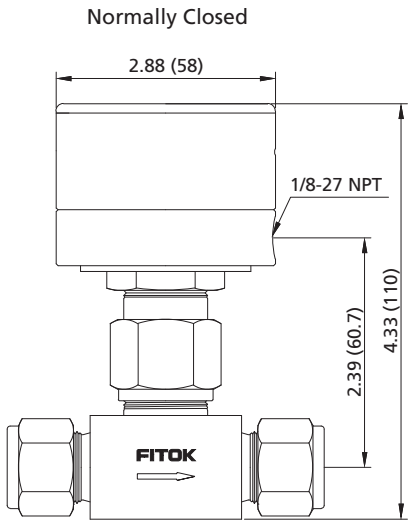
Actuator Type	Actuator Pressure Rating psig (bar)	Valve and Actuator Working Temperature °F (°C)	Valve Working Pressure psig (bar)
Normally Closed	65.3~79.8 (4.5~5.5)	-18~200 (-28~93)	145 (10.0)
Normally Open	72.5~87.0 (5.0~6.0)		500 (34.4)

Materials of Construction

Component	Material
Housing	Anodized Aluminium
Stem Tip	PCTFE

For valve components, refer to "Standard Materials of Construction" on page B-133.

Dimensions



Basic Ordering Number	Cv
SW□□-□□-2-KN-C/O	0.36
SW□□-□□-3-KN-C/O	0.85
SW□□-□□-5-KN-C/O	1.0

C designates normally closed models; O designates normally open models.

Bel lows-Sealed
Valves

Ordering Number Description

SWSS – FL8 – ML10 – 5 – WR – L – BW – SF2

Series	Body Material	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Orifice Size	Stem Tip Material and Type	Actuator	Body-to-Bellows Seal	Special Application	Cleaning and Packaging
SW	SS 316 SS 6L 316L SS S4 304 SS 4L 304L SS B Brass	TS Fractional Tube Socket Weld MTS Metric Tube Socket Weld TB Fractional Tube Butt Weld MTB Metric Tube Butt Weld PS Pipe Socket Weld PB Pipe Butt Weld FL Fractional Tube Fitting ML Metric Tube Fitting UFB Rotatable Fractional Tube Butt Weld UMB Rotatable Metric Tube Butt Weld FFR Female FR Fitting FR Male FR Fitting	2 1/8" 4 1/4" 6 3/8" or 6 mm 8 1/2" or 1/2x0.095" or 8 mm 10 10 mm 12 3/4" or 12 mm 14 14 mm	Same as Inlet Specified in the same way as Inlet type and size		2 0.16" (4.1 mm) 3 0.26" (6.6 mm) 4 0.28" (7.1 mm) 5 0.30" (7.6 mm)	 R Stellite Spherical Stainless Steel Regulating KN PCTFE Conical PN PEEK Conical VN Polyimide Conical WR Stellite Regulating N Stainless Steel Conical WN Stellite Conical	 Green Alumina Lever Handle L Black Alumina Lever Handle I Red Alumina Lever Handle J Blue Alumina Lever Handle M Stainless Steel Lever Handle B Black nylon Knob T Toggle handle C Normally Closed Pneumatic Actuator O Normally Open Pneumatic Actuator	 No S NACE MR0175 CE CE Certified Gasket Seal BW Welded Seal	 FC-01 F2 FC-02	

Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations

- 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.
- CE certification is available. For more information, please contact FITOK group or our authorized distributors.

Bellows-Sealed Valves

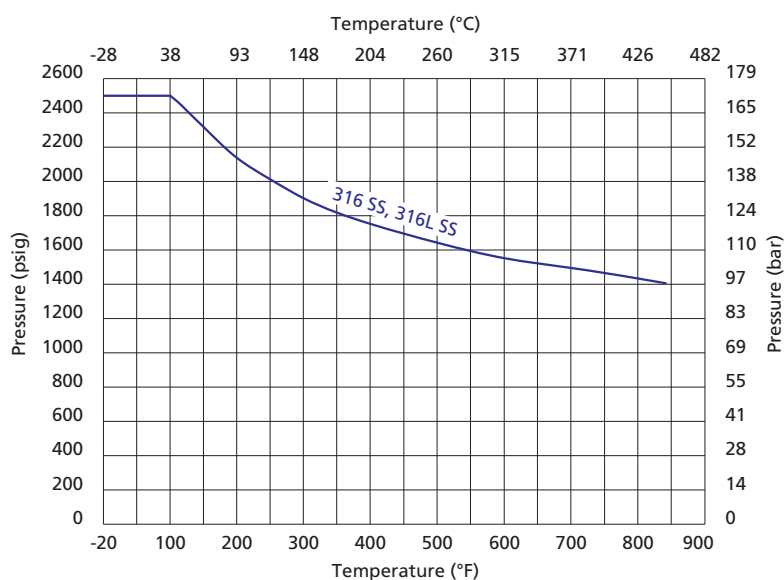
SU Series

Features

- Working pressure up to: 2500 psig (172 bar)
- Working temperature: -20°F to 842°F (-28°C to 450°C)
- Variety of end connections
- 316 SS body material
- Upper packing provides secondary containment system above the bellows
- Hydraulic-formed multilayer bellows for longer cycle life
- Nonrotating stem tip eliminates galling within the seat area
- Strictly controlled bellows stroke to improve safety and cycle life
- Replaceable bellows and stem tip assembly
- Regulating, conical, and spherical stem tips available
- Panel and bottom mounting available
- Double lock-pins enable steady and durable fastening of the handle
- Handle color options are available
- Every FITOK bellows-sealed valve leak tested with helium at the seat, envelope and all seals (maximum allowable leak rate : 4×10^{-9} std cm³/s)



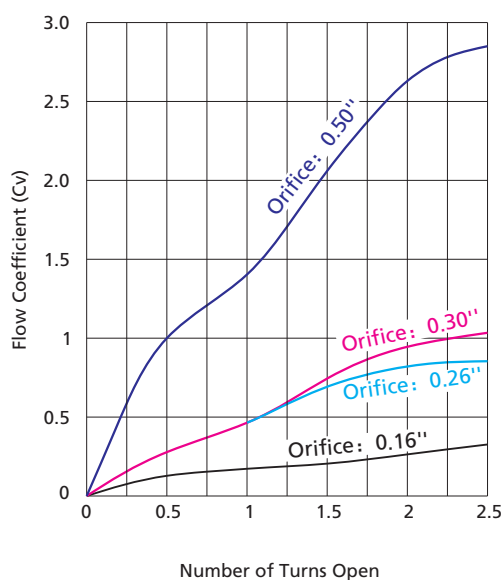
Pressure vs. Temperature



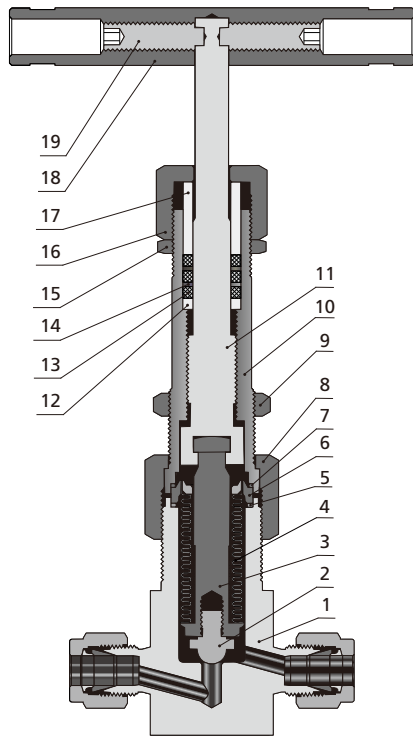
200°F (93°C) max. with PCTFE stem tip (soft tip).

Flow Coefficient vs. Turns Open

Regulating Stem



Standard Materials of Construction



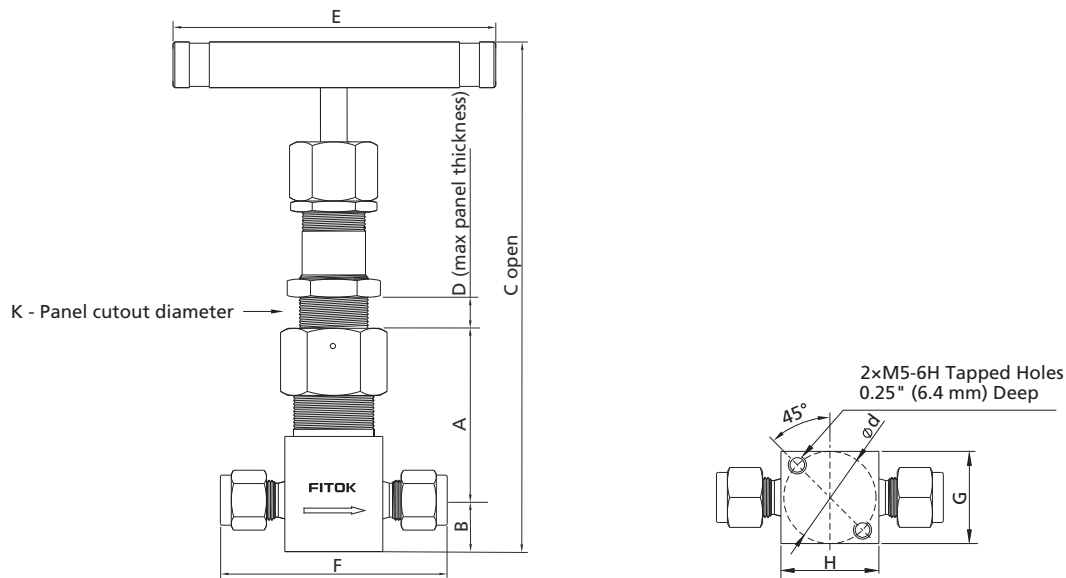
Tip Types



Component			Valve Body Material Grade/ASTM Specification
			316 SS
1	Body		316 SS/A182 or A479
2	Stem Tip	Regulating	316 SS/A479 or Stellite
		Conical	PCTFE/D1430 or 316 SS/A479 or Stellite
		Spherical	Stellite
3	Lower Stem		316 SS/A479
4	Bellows		316L SS/A240
5	Gasket		Sliver-plated 316L SS/A269
6	Weld Ring		316 SS/A479
7	Gasket		Sliver-plated 316L SS/A269
8	Bonnet Nut		316 SS/A479
9	Panel Mount Nut		Stainless steel
10	Bonnet		316 SS/A479
11	Upper Stem		440C SS/A479
12	Packing washer		316 SS/A479
13	Packing		Graphite
14	Packing washer		316 SS/A479
15	Lock Nut		Stainless steel
16	Packing Nut		316 SS/A479
17	Gland		316 SS/A479
18	Handle		6061/B210 /Stainless steel
19	Set Screws		Zinc-plated carbon steel

Contact FITOK Group or our authorized distributors for valves of other materials.

Dimensions

Orifice: ≤ 0.30 "

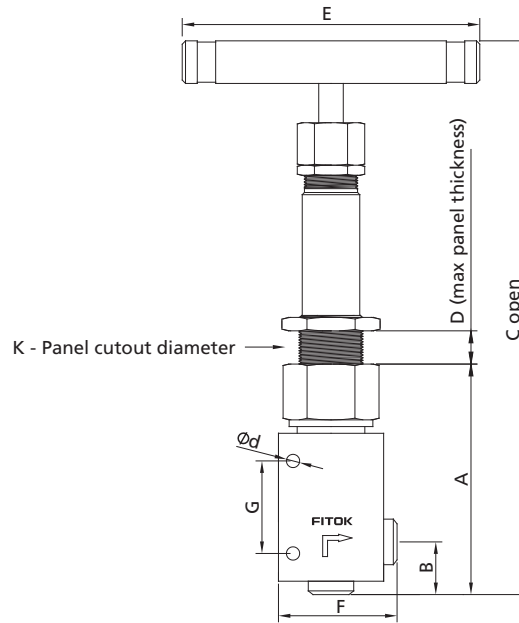
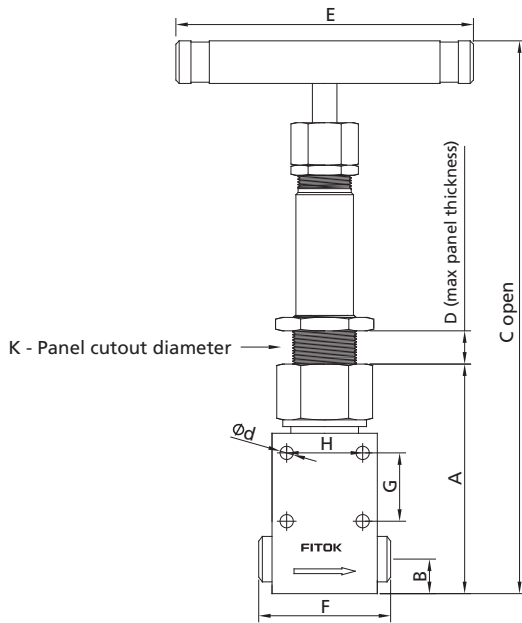
Basic Ordering Number	End Connections		Orifice in. (mm)	Cv	Dimensions, in. (mm)									
	Inlet Size	Outlet Size			A	B	C	D	E	F	G	H	K	Ød
SU□□-FL4-2-	1/4" FITOK		0.16 (4.10)	0.36	1.86 (47.3)	0.54 (14.2)	6.34 (161.0)	0.38 (9.7)	3.50 (88.9)	2.46 (62.5)	1.00 (25.4)	1.07 (27.2)	0.77 (19.5)	1.00 (25.4)
SU□□-FL6-3-	3/8" FITOK		0.26 (6.60)	0.85	1.94 (49.3)	0.50 (12.7)	6.36 (161.5)	0.38 (9.7)	3.50 (88.9)	3.09 (78.5)	1.13 (28.7)	1.57 (40.0)	0.77 (19.5)	1.13 (28.7)
SU□□-FL8-5-	1/2" FITOK		0.30 (7.60)	1.20	1.98 (50.3)	0.50 (12.7)	6.40 (162.5)	0.38 (9.7)	3.50 (88.9)	3.30 (83.8)	1.13 (28.7)	1.57 (40.0)	0.77 (19.5)	1.13 (28.7)
SU□□-ML6-2-	6 mm FITOK		0.16 (4.10)	0.36	1.86 (47.3)	0.56 (14.2)	6.34 (161.0)	0.38 (9.7)	3.50 (88.9)	2.46 (62.5)	1.00 (25.4)	1.05 (26.6)	0.77 (19.5)	1.00 (25.4)
SU□□-ML10-4-	10 mm FITOK		0.28 (7.10)	1.00	1.97 (50.1)	0.50 (12.7)	6.39 (162.3)	0.38 (9.7)	3.50 (88.9)	3.11 (79.0)	1.13 (28.7)	1.57 (40.0)	0.77 (19.5)	1.13 (28.7)
SU□□-ML12-4-	12 mm FITOK		0.28 (7.10)	1.00	1.97 (50.1)	0.50 (12.7)	6.39 (162.3)	0.38 (9.7)	3.50 (88.9)	3.30 (83.8)	1.13 (28.7)	1.57 (40.0)	0.77 (19.5)	1.13 (28.7)
SU□□-TS4-2-	1/4" Tube Socket Weld		0.16 (4.10)	0.36	1.86 (47.3)	0.56 (14.2)	6.34 (161.0)	0.38 (9.7)	3.50 (88.9)	1.68 (42.7)	1.00 (25.4)	1.00 (25.4)	0.77 (19.5)	1.00 (25.4)
SU□□-TS6-4-	3/8" Tube Socket Weld		0.28 (7.10)	1.00	1.97 (50.1)	0.50 (12.7)	6.39 (162.3)	0.38 (9.7)	3.50 (88.9)	2.27 (57.7)	1.13 (28.7)	1.52 (38.6)	0.77 (19.5)	1.13 (28.7)
SU□□-TS8-5-	1/2" Tube Socket Weld		0.30 (7.60)	1.20	1.98 (50.3)	0.50 (12.7)	6.40 (162.5)	0.38 (9.7)	3.50 (88.9)	2.27 (57.7)	1.13 (28.7)	1.52 (38.6)	0.77 (19.5)	1.13 (28.7)
SU□□-FFR4-2-	1/4" Female FR		0.16 (4.10)	0.36	1.86 (47.3)	0.56 (14.2)	6.34 (161.0)	0.38 (9.7)	3.50 (88.9)	2.76 (70.1)	1.00 (25.4)	1.00 (25.4)	0.77 (19.5)	1.00 (25.4)
SU□□-FFR8-5-	1/2" Female FR		0.30 (7.60)	1.20	1.98 (50.3)	0.50 (12.7)	6.40 (162.5)	0.38 (9.7)	3.50 (88.9)	3.12 (79.2)	1.13 (28.7)	1.52 (38.6)	0.77 (19.5)	1.13 (28.7)
SU□□-FR4-2-	1/4" Male FR		0.16 (4.10)	0.36	1.86 (47.3)	0.56 (14.2)	6.34 (161.0)	0.38 (9.7)	3.50 (88.9)	2.24 (56.9)	1.00 (25.4)	1.00 (25.4)	0.77 (19.5)	1.00 (25.4)
SU□□-FR8-5-	1/2" Male FR		0.30 (7.60)	1.20	1.98 (50.3)	0.50 (12.7)	6.40 (162.5)	0.38 (9.7)	3.50 (88.9)	3.00 (76.2)	1.13 (28.7)	1.52 (38.6)	0.77 (19.5)	1.13 (28.7)

1. FITOK means FITOK double ferrule tube fittings, FR means metal gasket seal fittings.
2. Valve dimensions of FITOK tube fittings in port types listed are dimensions when nuts are finger-tightened. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.
3. The sizes and types listed are standard. Other sizes and types are available upon request. For special sizes and types, refer to ordering information.

Dimensions

Orifice: 0.50"

Orifice: 0.61"



Basic Ordering Number	End Connections		Orifice in. (mm)	Cv	Dimensions, in. (mm)									
	Inlet Size	Outlet Size			A	B	C	D	E	F	G	H	K	Ød
SU□□-TS12-8-	3/4" Tube Socket Weld		0.50 (12.7)	3.10	5.45 (138.5)	1.00 (25.4)	11.60 (295)	0.59 (14.9)	5.00 (127)	2.44 (62.0)	1.25 (31.8)	1.46 (37.0)	1.2 (30.5)	0.27 (6.9)
SU□□-PB12-8-	3/4×SCH80 Pipe Butt Weld		0.50 (12.7)	3.10	5.45 (138.5)	1.00 (25.4)	11.60 (295)	0.59 (14.9)	5.00 (127)	2.44 (62.0)	1.25 (31.8)	1.46 (37.0)	1.2 (30.5)	0.27 (6.9)
SU□□-TS12-8A-	3/4" Tube Socket Weld		0.61 (15.5)	5.30	5.45 (138.5)	1.44 (36.6)	11.60 (295)	0.59 (14.9)	5.00 (127)	2.49 (63.2)	1.60 (40.6)	—	1.2 (30.5)	0.27 (6.9)
Su□□-PB12-8A-	3/4×SCH80 Pipe Butt Weld		0.61 (15.5)	5.30	5.45 (138.5)	1.44 (36.6)	11.60 (295)	0.59 (14.9)	5.00 (127)	2.49 (63.2)	1.60 (40.6)	—	1.2 (30.5)	0.27 (6.9)
SU□□-TB16-8A-	1×0.134" Tube Butt Weld		0.61 (15.5)	5.30	5.45 (138.5)	1.44 (36.6)	11.60 (295)	0.59 (14.9)	5.00 (127)	2.49 (63.2)	1.60 (40.6)	—	1.2 (30.5)	0.27 (6.9)

Pneumatic Actuators



Features

- Low actuation pressure
- Opens and closes quickly and reliably
- Aluminum and stainless steel components

Actuation Modes

- Normally closed—air opens, spring closes
- Normally open—air closes, spring opens

Technical Data

Orifice	Working Temperature °F (°C)	Pressure Rating psig (bar)
≤0.30"	-20~200 (-28~93)	80~94 (5.5~6.5)
0.50"		87~116 (6~8)

For valve ratings, please refer to Pressure VS. Temperature on page B-138.

Materials of Construction

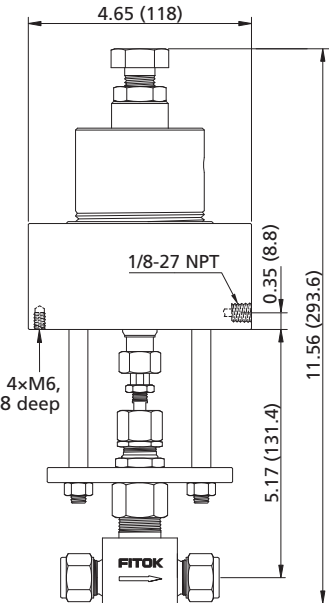
Component	Material
Housing	Anodized Aluminium
Stem Tip	Stellite
Bracket	Stainless Steel

For valve components, refer to "Standard Materials of Construction" on page B-139.

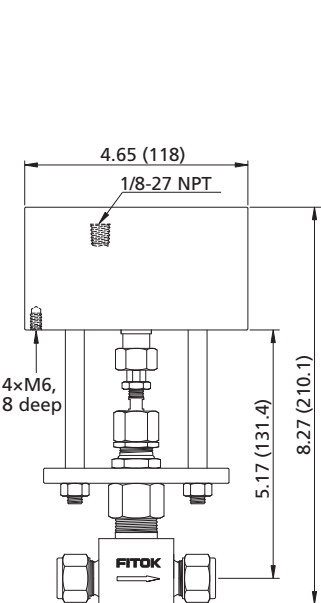
Dimensions

Dimensions are for reference only and subject to change

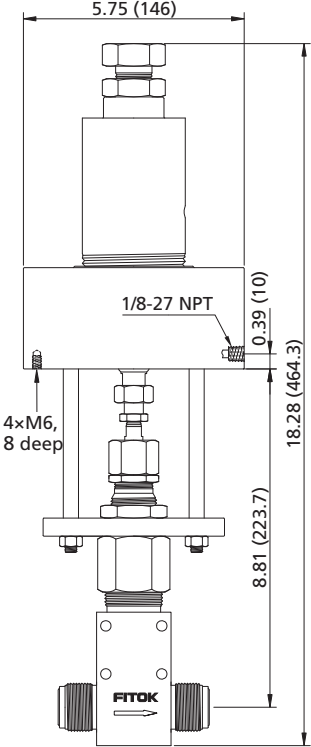
Normally closed, orifice $\leq 0.30"$



Normally open, orifice $\leq 0.30"$



Normally closed, orifice 0.50"



Ordering Information

To order valves with pneumatic actuators, add -C or -O to the valve ordering number. C designates normally closed models; O designates normally open models.

SU□□-□□-2/3/4/5-C/O

SU□□-□□-8-C

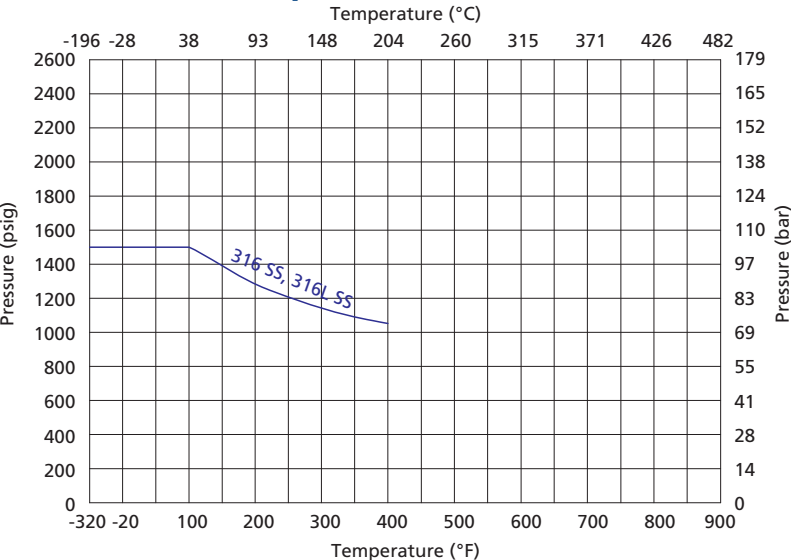
Low Temperature Applications

SU series bellows-sealed valves for temperatures ranging from -320°F to 400°F (-196°C to 204°C) are available, featuring PTFE packing. To order, please add -LT to the valve ordering number.

Example: SUSS-FL4-5-LT

SUSS-FL12-8-LT

Pressure vs. Temperature



Temperature rating is limited to 200°F (93°C) max. with PCTFE stem tip (soft tip).

Ordering Number Description

Series		Body Material		Inlet Type		Inlet Size		Outlet Type	Outlet Size	Orifice Size	Stem Tip Material and Type		Actuator	Body-to-Bellows Seal	Special Application		Cleaning and Packaging																										
SU	SS	316 SS		TS	Fractional Tube Socket Weld	2	1/8"	Same as Inlet Type and Size	Specified in the same way as Inlet Type and Inlet Size	2	0.16" (4.1 mm)	Manual: Stellite Spherical Pneumatic and Low Temperature Application: Stellite Conical		Green Alumina Lever Handle	No	S	NACE MR0175	F2	FC-02																								
	6L	316L SS		MTS	Metric Tube Socket Weld	4	1/4"						3	0.26" (6.60 mm)						L	Black Alumina Lever Handle																						
	S4	304 SS		TB	Fractional Tube Butt Weld	6	3/8" or 6 mm						4	0.28" (7.1 mm)						I	Red Alumina Lever Handle																						
	4L	304L SS		MTB	Metric Tube Butt Weld	8	1/2" or 8 mm						5	0.30" (7.6 mm)						J	Blue Alumina Lever Handle																						
SUSS - FL8 - ML10 - 5 - WR - L - BW - SF2				PS	Pipe Socket Weld	10	10 mm	Specified in the same way as Inlet Type and Inlet Size		8	0.50" (12.7 mm)	R	Stainless Steel Regulating	M	Stainless Steel Lever Handle	EP	Flow Path Ra ≤ 0.25 um Electropolished	CE	CE Certified																								
				PB	Pipe Butt Weld	12	3/4" or 3/4xSCH80 or 12 mm					8A	0.61" (15.5 mm)	KN	PCTFE Conical					C	Normally Closed Pneumatic Actuator																						
				FL	Fractional Tube Fitting	14	14 mm					PN	PEEK Conical	O	Normally Open Pneumatic Actuator																												
				ML	Metric Tube Fitting	16	1" or 1x0.134" or 16 mm					VN	Polyimide Conical																														
				UFB	Rotatable Fractional Tube Butt Weld	18	18 mm					WR	Stellite Regulating																														
				UMB	Rotatable Metric Tube Butt Weld																																						
				FFR	Female FR Fitting																																						
				FR	Male FR Fitting																																						
				Gasket Seal	BW																																						
				Welded Seal																																							

Note: "Ordering Number Description" is a reference to understand the combination of FITOK product part number. Not all combinations are available.

Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

1. 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.

2. CE certification is available. For more information, please contact FITOK group or our authorized distributors.

3. LT: Apply to low temperature applications with PTFE auxiliary packing, working temperature -320~400°F (-196~204°C).

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FK-IC-GS-01-EN-/60618