

Bellows-Sealed Valves

BS4 Series

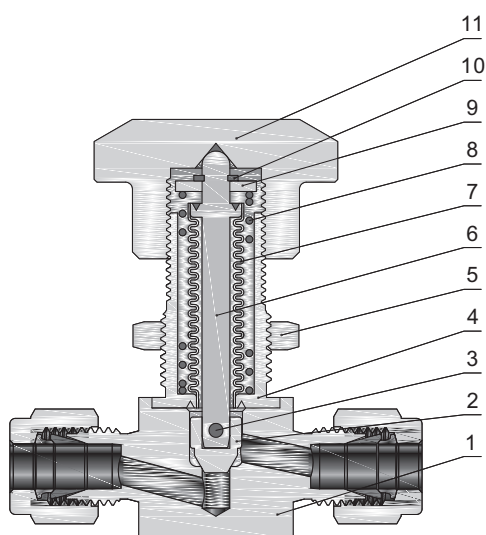


- ❖ Maximum working pressure up to 1000 psig (68.9 bar)
- ❖ Working temperature from -80°F to 600 °F (-62 °C to 315 °C)
- ❖ Flow coefficients (Cv) from 0.11 to 0.28
- ❖ Variety of end connections
- ❖ 316 stainless steel body material

Features

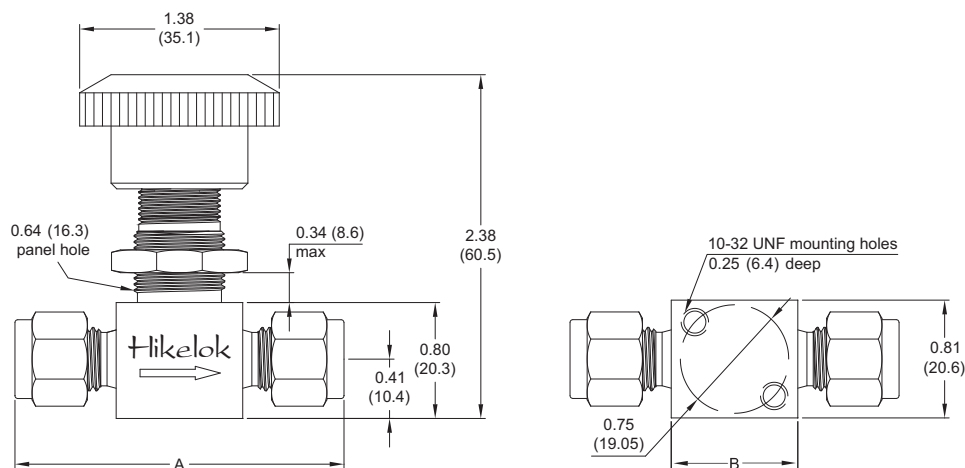
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- ❖ Flow coefficients (Cv) from 0.11 to 0.28
- ❖ Variety of end connections
- ❖ 316 stainless steel body material
- ❖ Panel and bottom mounting
- ❖ Precision-formed metal bellows provides reliable seal
- ❖ Nonrotating stem tip
- ❖ Welded body to bonnet seal
- ❖ Every valve is tested with helium for 10s to a maximum leak rate of 4×10^{-9} std cm³/s

Standard Materials of Construction



Component		Material Grade/ASTM Specification
1	Body	316 S.S./A479
2	Stem Tip	S17400/A564
3	Stem Pin	420 S.S.
4	Bonnet	316 S.S./A479
5	Nut	316 S.S./A479
6	Stem	420 S.S.
7	Bellows	321 S.S./A269
8	Spring	S17700/AMS 5678
9	Washer	316 S.S./A240
10	Retaining Ring	304 S.S.
11	Handle	Green-Anodized Aluminum

Dimensions



Basic Ordering Number	Connection Type and Size	Orifice in. (mm)		Cv	Dimension in. (mm)	
		Body	Port		A	B
BS4-F2-04-	1/8" Hikelok	0.148 (3.8)	0.082	0.11	2.09 (53.1)	0.88 (22.3)
BS4-F4-04-	1/4" Hikelok		0.156 (4.0)	0.28	2.27 (57.7)	
BS4-M6-04-	6mm Hikelok				1.94 (49.3)	1.04 (26.4)
BS4-FNPT4-04-	1/4 Female NPT		0.125 (3.2)	0.20	1.57 (39.9)	0.81 (20.6)
BS4-NPT2-04-	1/8 Male NPT		0.156 (4.0)	0.28	1.94 (49.3)	0.82 (20.8)
BS4-NPT4-04-	1/4 Male NPT				2.12 (53.8)	0.88 (22.3)
BS4-GFS4-04-	1/4" Male GFS				2.57 (65.3)	0.82 (20.8)
BS4-FGFS4-04-	1/4" Female GFS				1.5 (38.1)	
BS4-FSW4-FBW6-04-	1/4" tube socket weld to 3/8" Tube butt weld					

How to Order

BS4 — FSW4 — FBW6 — 04 — 316

Series	Inlet Type		Inlet Size	Outlet Type	Outlet Size	Orifice Size	Tip Material	Body Material			
BS4	FBW	Fractional Tube Butt Weld	2	Same as inlet type and inlet size		04	0.148 in. (3.8 mm)	Same as Body Material	316	316 S.S.	
	FSW	Fractional Tube Socket Weld	4								1/4 in.
	MBW	Metric Tube Butt Weld	6	If outlet and inlet are the same, eliminate the outlet designator			S	Stellite			
	MSW	Metric Tube Socket Weld	8								8 mm
	FGFS	Female GFS Fitting									
	GFS	Male GFS Fitting									
	FNPT	Female NPT									
	NPT	Male NPT									
	FBT	Female BSPT									
	MBT	Male BSPT									
	F	Fractional Tube Fitting									
	M	Metric Tube Fitting									