

Hex Bar Stock Ball Valves

BV3 Series

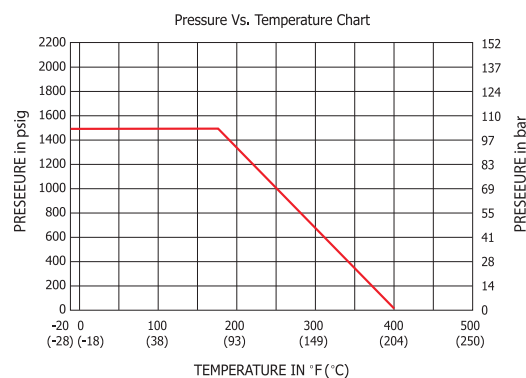


- ❖ Maximum working pressure: 1500 psig (103.4 bar)
- ❖ Working temperature: -30°F to 400°F (-34°C to 204°C)
- ❖ 316 stainless steel and steel body material
- ❖ Variety of end connections

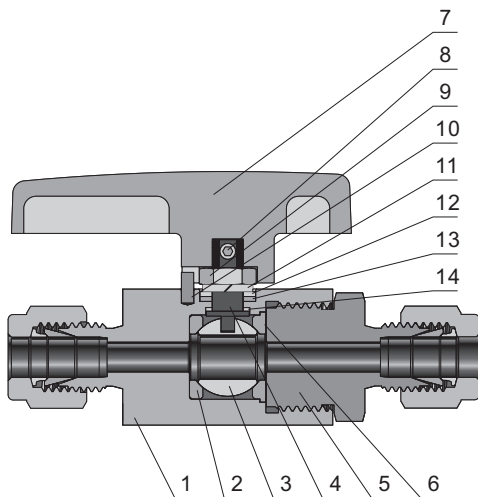
Features

- ❖ Maximum working pressure: 1500 psig (103.4 bar)
- ❖ Working temperature: -30°F to 400°F (-34°C to 204°C)
- ❖ Compact and economical design
- ❖ Free floating ball design for seat wear compensation
- ❖ Bi-directional flow
- ❖ Blowout proof stem
- ❖ Options for handle color

Pressure vs. Temperature

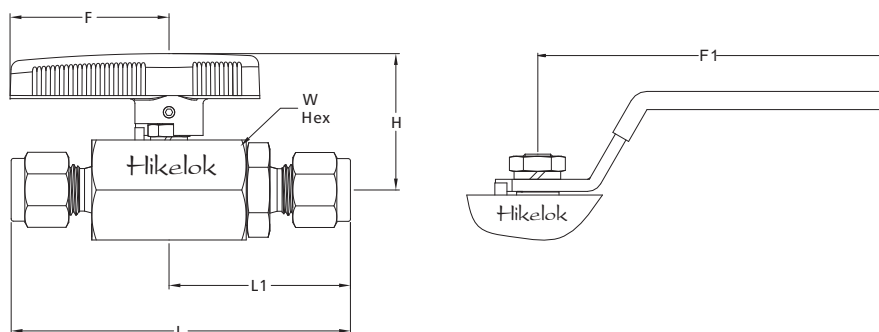


Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification		
		316 S.S.	304 S.S.	Brass
1	Body	316 S.S./A276	304 S.S./A276	Brass/B16
2	Seat	PTFE/D1710		
3	Ball	316 S.S./A276		
4	Stem	316 S.S./A276		
5	Connector	316 S.S./A276	304 S.S./A276	Brass/B16
6	Seat	PTFE/D1710		
7	Handle	Aluminum		
8	Screw	S17400/A564		
9	Nut	316 S.S./A194		
10	Pin	304 S.S./A276		
11	Washer	304 S.S.		
12	Gland	316 S.S./A276		
13	Packing	PTFE/D1710		
14	Stem Washer	PTFE/D1710		

Dimensions



Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)								
				L	L1	W	H	F	F1			
BV3-M6-07-	6 mm Hikelok	0.281 (7.1)	2.3	2.63 (66.8)	1.50 (38.1)	3/4 (19.05)	1.18 (30)	1.38 (35.0)	3.22 (82.0)			
BV3-M8-07-	8 mm Hikelok											
BV3-F4-07-	1/4" Hikelok											
BV3-F5-07-	5/16" Hikelok											
BV3-FNPT2-07-	1/8 Female NPT			1.85 (47.0)	1.08 (27.4)	7/8 (22.23)						
BV3-FBP2-07-	1/8 Female BSPP											
BV3-FBP4-07-	1/4 Female BSPP											
BV3-FNPT4-07-	1/4 Female NPT											
BV3-M10-07-	10 mm Hikelok			2.87 (72.9)	1.68 (42.7)	15/16 (24.0)						
BV3-F6-07-	3/8" Hikelok											
BV3-FBP6-07-	3/8 Female BSPP											
BV3-FNPT6-07-	3/8 Female NPT											
BV3-M12-09-	12 mm Hikelok	0.354 (9.0)	6.4	3.15 (80.0)	1.83 (46.5)	1.54 (39)	1.65 (42.0)	3.22 (82.0)				
BV3-F8-09-	5/8" Hikelok											
BV3-F10-09-	5/8" Hikelok											
BV3-FBP8-09-	1/2 Female BSPP			2.05 (52.1)	1.12 (28.5)							
BV3-FNPT8-09-	1/2 Female NPT											

❖ If working pressure up to 6,000 psi, please refer to BV36 series.
If working pressure up to 10,000 psi, please refer to BV31 series.

How to Order

BV3 — M12 — FNPT8 — T09 — LL — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Seat Material	Orifice Size	Handle	Body Material
BV3	FNPT Female NPT	2 1/8 in.	Same as inlet type and inlet size		T PTFE	07 0.281 in. (7.1mm)	Black Aluminium Directional Handle (ADH)	316 316 S.S.
	NPT Male NPT	3 3 mm				09 0.354 in (9.0mm)		316L 316L S.S.
	FBT Female BSPT	4 1/4 in.				13 0.5 in. (12.7 mm)		304 304 S.S.
	MBT Male BSPT	5 5/16 in.	If outlet and inlet are the same, eliminate the outlet designator			15 0.59 in (15.0mm)	R1 Red ADH	304L 304L S.S.
	FMS Female ISO 261	6 3/8 in. or 6 mm				G1 Green ADH		
	MS Male ISO 261	8 1/2 in. or 8 mm				L1 Blue ADH		
	FBP Female BSPP	10 10 mm				Y1 Yelow ADH		
	MBP Male BSPP	12 3/4 in. or 12 mm				BL Black Lever Handle		
	F Fractional Tube Fitting	14 14 mm				RL Red Lever Handle		
	M Metric Tube Fitting	16 1 in. or 16 mm				GL Green Lever Handle		
	UGF Nut + Gasket + Bulge Fractional Tube Nipple	18 18 mm				LL Blue Lever Handle		
		20 11/4 in. or 20 mm				YL Yelow Lever Handle		
		22 22 mm						
	UGM Nut + Gasket + Metric Tube Bulge Nipple	25 1 in. or 25 mm						