

Ball Valves

BR Series



Hex Bar Stock Ball Valves

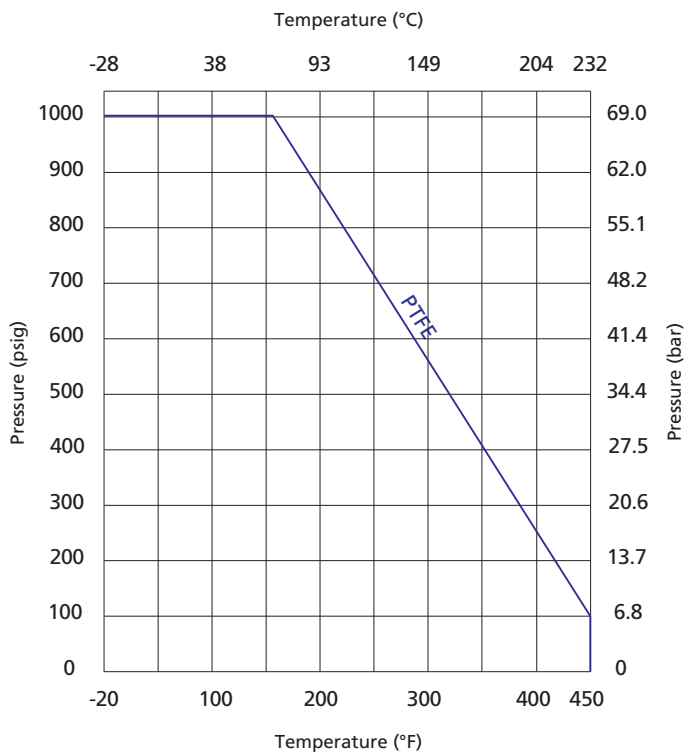
BR Series

Features

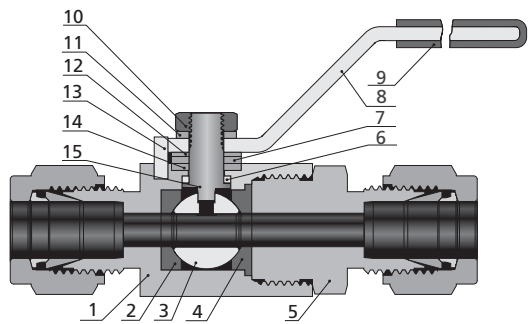
- Working pressure up to: 1000 psig (69.0 bar)
- Working temperature: -20°F to 450°F (-28°C to 232°C)
- Compact and economical design
- Free floating ball design for seat wear compensation
- Bi-directional flow
- Low operating torque
- Any reasonable connections available
- Blowout proof stem
- Handle color options available
- Leak-tight performance testing with nitrogen or compressed air for every valve at the rated pressure to meet the requirement of no visible leak



Pressure vs. Temperature



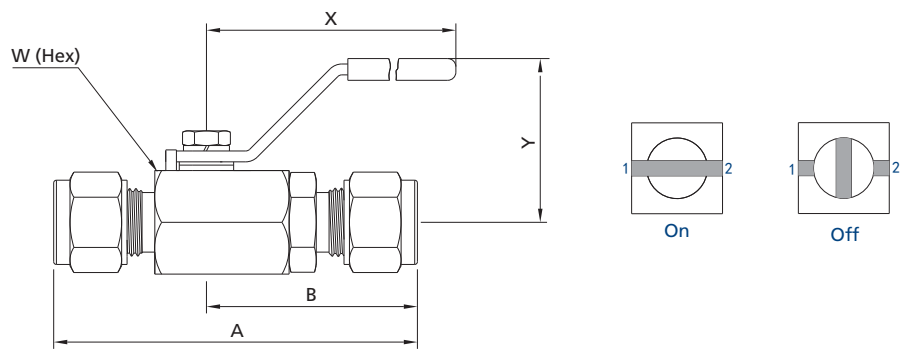
Standard Materials of Construction



Item	Component	Valve Body Material			
		316 SS	304 SS	316L SS	Brass
1	Body	316 SS/A479	304 SS/A479	316L SS/A479	Brass C36000/B16
2	Front Seat	PTFE/D1710			
3	Ball	316 SS/A479	304 SS/A479	316L SS/A479	316 SS/A479
4	Back Seat	PTFE/D1710			
5	End Connection	316 SS/A479	304 SS/A479	316L SS/A479	Brass C36000/B16
6	Lower Packing	PTFE/D1710			
7	Washer	316 SS/A479			
8	Handle	304 SS/A240 or Aluminium			
9	Sleeve	Vinyl			
10	Stem Nut	SS			
11	Gasket	SS			
12	Coned-disk Spring	S17700/A693			
13	Stop Pin	SS			
14	Upper Packing	PTFE/D1710			
15	Stem	316 SS/A479	304 SS/A479	316L SS/A479	316 SS/A479

Note: Wetted components are listed in italics.
For other materials, please contact FITOK Group or our authorized distributors.

Dimensions



Basic Ordering Number	Connection Type and Size		Orifice in. (mm)	Cv	Dimensions, in. (mm)				
	Connection 1	Connection 2			A	B	W	X	Y
BR□□-ML6-05	6 mm FITOK	6 mm FITOK	0.19 (4.8)	1.25	2.57 (65.2)	1.50 (38.1)	3/4 (19.05)	2.36 (60)	1.18 (30)
BR□□-ML8-05	8 mm FITOK	8 mm FITOK			2.63 (66.8)	1.53 (38.8)			
BR□□-FL4-05	1/4" FITOK	1/4" FITOK			2.57 (65.2)	1.50 (38.1)			
BR□□-FL5-05	5/16" FITOK	5/16" FITOK			2.63 (66.8)	1.53 (38.8)			
BR□□-FNS2-05	1/8 Female NPT	1/8 Female NPT			1.85 (47.0)	1.08 (27.4)			
BR□□-FRP2-05	1/8 Female BSPP	1/8 Female BSPP			2.00 (50.0)	1.14 (29.0)			
BR□□-FRP4-05	1/4 Female BSPP	1/4 Female BSPP			2.00 (50.0)	1.14 (29.0)			
BR□□-FNS4-05	1/4 Female NPT	1/4 Female NPT			1.85 (47.0)	1.08 (27.4)			
BR□□-ML10-07	10 mm FITOK	10 mm FITOK	0.28 (7.1)	2.50	2.87 (72.9)	1.68 (42.7)	7/8 (22.23)		1.26 (32)
BR□□-FL6-07	3/8" FITOK	3/8" FITOK			2.03 (51.6)	1.18 (30.0)			
BR□□-FRP6-07	3/8 Female BSPP	3/8 Female BSPP							
BR□□-FNS6-07	3/8 Female NPT	3/8 Female NPT							
BR□□-ML12-10	12 mm FITOK	12 mm FITOK	0.35 (8.9)	9.25	3.15 (80.0)	1.83 (46.5)	1 1/16 (27.0)	3.15 (80)	1.54 (39)
BR□□-ML14-10	14 mm FITOK	14 mm FITOK			3.24 (82.2)	1.87 (47.5)			
BR□□-FL8-10	1/2" FITOK	1/2" FITOK			3.15 (80.0)	1.83 (46.5)			
BR□□-FL10-10	5/8" FITOK	5/8" FITOK			3.24 (82.2)	1.87 (47.5)			
BR□□-FRP8-10	1/2 Female BSPP	1/2 Female BSPP			2.08 (53.0)	1.12 (28.5)	15/16 (24.0)		
BR□□-FNS8-10	1/2 Female NPT	1/2 Female NPT			2.08 (53.0)	1.12 (28.5)			
BR□□-ML16-13	16 mm FITOK	16 mm FITOK	0.47 (12.0)	12.65	3.50 (88.9)	2.00 (50.8)	1 1/4 (31.75)	3.94 (100)	2.03 (51.7)
BR□□-ML18-13	18 mm FITOK	18 mm FITOK							
BR□□-FL12-13	3/4" FITOK	3/4" FITOK			2.48 (63.0)	1.30 (33.0)			
BR□□-FRP12-13	3/4 Female BSPP	3/4 Female BSPP			2.39 (60.7)	1.20 (30.5)			
BR□□-FNS12-13	3/4 Female NPT	3/4 Female NPT			3.96 (100.6)	2.24 (57.1)			
BR□□-ML22-16	22 mm FITOK	22 mm FITOK	0.63 (16.0)	17.35	4.31 (109.5)	2.42 (61.5)	1 1/2 (38.1)		2.15 (54.8)
BR□□-ML25-16	25 mm FITOK	25 mm FITOK							
BR□□-FL16-16	1" FITOK	1" FITOK			3.25 (82.6)	1.63 (41.3)			
BR□□-FRP16-16	1 Female BSPP	1 Female BSPP			3.00 (76.5)	1.50 (38.1)			
BR□□-FNS16-16	1 Female NPT	1 Female NPT							

1. FITOK means FITOK double ferrule tube fittings.

2. Sizes and types listed are standard. Other sizes and types are available upon request, please contact FITOK Group or our authorized distributors.

3. Dimensions are shown with tube fitting nuts 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.

Ordering Number Description

BRSS - ML8 - FL4 - 05 - UL - SF2

Series	Body Material	Connection 1 Type	Connection 1 Size	Connection 2 Type	Connection 2 Size	Orifice	Handle	Locking Device	Special Application	Cleaning and Packaging
BR	SS	FNS	2 1/8"			05 0.19" (4.8 mm)	SS with Yellow Vinyl Cover	NO	NO	FC-01
	6L	NS	4 1/4"			07 0.28" (7.1 mm)	C with Red Vinyl Cover	L Yes	NACE MR0175	FC-02
	S4	FRT	5 5/16"			10 0.35" (8.9 mm)	SS			
	B	RT	6 3/8" or 6 mm			13 0.47" (12.0 mm)	SS with Blue Vinyl Cover			
		FRP	8 1/2" or 8 mm			16 0.63" (16.0 mm)	Black Aluminium			
		BP	10 10 mm				Black Nylon			

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

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, 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 cleaning requirement of ASTM G93 Level C.



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