3-Piece Ball Valves

BG Series

Features

- O Working pressure up to: 1000 psig (69.0 bar)
- Working temperature: -20°F to 450°F (-28°C to 232°C)
- © End connections:

1/8 to 1 thread

1/8" to 1" pipe butt or socket weld

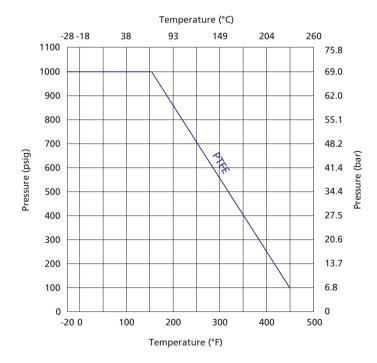
1/4" to 1" and 6 mm to 25 mm tube butt or socket weld

1/4" to 1" and 6 mm to 25 mm tube fitting

- Orifice sizes: 0.19" (4.8 mm) to 1" (25 mm)
- O Blowout proof stem
- Bidirectional flow
- Leak-tight performance testing with nitrogen or compressed air for every valve at the rated pressure to meet the requirement of no visible leak



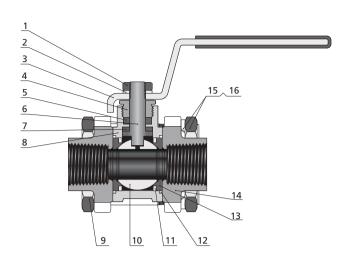
Pressure vs. Temperature



Note: The temperature and pressure rating are based on valves of standard materials.



Standard Materials of Construction

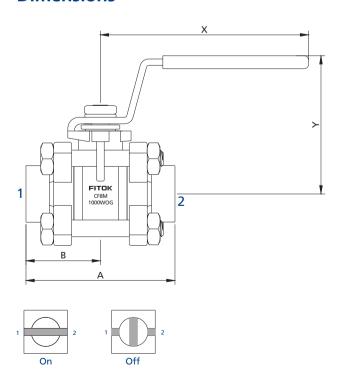


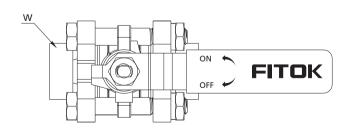
Item	Component	Valve Body Material					
		CF8M/ A351	CF8/ A351				
1	Stem Nut	SS					
2	Gasket	SS					
3	Handle	304 SS/A240 (with vinyl sleeve)					
4	Gland	316 SS/A479 or 304 SS/A479					
5	Stem Packing	PTFE/D1710					
6	Stem	316 SS/A479 or 304 SS/A479					
7	Stem Bearing	PTFE/D	1710				
8	Body	CF8M/A351	CF8/A351				
9	Body Bolt	SS					
10	Ball	316 SSIA479 or 304 SSIA479					
11	Support Ring	316 SS/A240 or 304 SS/A240					
12	Flange Seal	PTFE/D1710					
13	Seat	PTFE/D1710					
14	End Connection	CF8MIA351	CF8/A351				
15	Gasket	SS					
16	Nut	SS					
Lubricants		Silicone-based and PTFE-based					

Note: Wetted components are listed in italics.

For other materials, please contact FITOK Group or our authorized distributors.

Dimensions







Basic	Connection Type and Size		Orifice	Orifice	Dimensions, in. (mm)					
Ordering Number	Connection 1	Connection 2	in. (mm)	Cv	Α	В	W	Х	Υ	
BG □ □-FNS2-05	1/8 Female NPT	1/8 Female NPT		1.2	2.05 (52.1)	1.03 (26.0)	0.63 (16.0)	2.69 (68.3)	1.46 (37.0)	
BG □ □-FRP2-05	1/8 Female BSPP	1/8 Female BSPP								
BG □ □-PB4-05	1/4×SCH80 Pipe Butt Weld	1/4×SCH80 Pipe Butt Weld	0.19							
BG □ □-FL4-05	1/4" FITOK	1/4" FITOK	(4.8)		2.63 (66.8)	1.31 (33.4)				
BG □ □-ML6-05	6 mm FITOK	6 mm FITOK								
BG □ □-ML8-05	8 mm FITOK	8 mm FITOK								
BG □ □-FNS4-07	1/4 Female NPT	1/4 Female NPT		3.8	2.05 (52.1) 2.63 (66.8)	1.03 (26.0)				
BG □ □-FRP4-07	1/4 Female BSPP	1/4 Female BSPP	0.28 (7.1)							
BG □ □-FL6-07	3/8" FITOK	3/8" FITOK				1.31 (33.4)				
BG □ □-ML10-07	10 mm FITOK	10 mm FITOK								
BG □ □-FL8-11	1/2" FITOK	1/2" FITOK		7.5	4.04 (103.0)	2.02 (51.3)	0.93 (23.5)	3.94 (100.0)	2.19 (55.7)	
BG □ □-ML12-11	12 mm FITOK	12 mm FITOK	0.42 (10.6)							
BG □ □-ML14-11	14 mm FITOK	14 mm FITOK								
BG□□-FNS6-13	3/8 Female NPT	3/8 Female NPT		11.3	2.57 (65.2)	1.28 (32.6)				
BG□□-FRP6-13	3/8 Female BSPP	3/8 Female BSPP	0.50 (12.7)							
BG □ □-PS6-13	3/8 PS	3/8 PS								
BG □ □-PB8-13	1/2×SCH80 Pipe Butt Weld	1/2×SCH80 Pipe Butt Weld			2.96 (75.3)	1.48 (37.7)				
BG □ □-FL10-13	5/8" FITOK	5/8" FITOK			4.04 (103.0)	2.02 (51.3)				
BG □ □-ML16-13	16 mm FITOK	16 mm FITOK								
BG □ □-FNS8-15	1/2 Female NPT	1/2 Female NPT		13.0	2.74 (69.5)	1.37	1.06 (27.0)		2.26 (57.5)	
BG □ □-FRP8-15	1/2 Female BSPP	1/2 Female BSPP								
BG □ □-PS8-15	1/2 PS	1/2 PS	0.55 (14.0)							
BG □ □-MTB22-15	22×3 mm Tube Butt Weld	22×3 mm Tube Butt Weld				(34.8)				
BG □ □-TS12-15	3/4" TS	3/4" TS								
BG□□-MTS18-15	18 mm Tube Socket Weld	18 mm Tube Socket Weld								
BG □ □-FL12-15	3/4" FITOK	3/4" FITOK			4.04 (103.0)	2.02 (51.3)				
BG □ □-ML18-15	18 mm FITOK	18 mm FITOK								
BG □ □-FNS12-20	3/4 Female NPT	3/4 Female NPT	0.79	50.0	3.15 (80.0)	1.57	1.34 (34.0)	5.18 (131.5)	2.66 (67.5)	
BG □ □-FRP12-20	3/4 Female BSPP	3/4 Female BSPP	(20.0)			(40.0)				



Basic	Connection Type and Size		Orifice		Dimensions, in. (mm)					
Ordering Number	Connection 1	Connection 2	in. (mm)	Cv	Α	В	W	х	Υ	
BG□ □-PB12-20	3/4×SCH80 Pipe Butt Weld	3/4×SCH80 Pipe Butt Weld	0.79 (20.0)	50.0	3.15 (80.0) 5.12 (130.0)	1.57 (40.0) 2.56 (65.0)	1.34 (34.0)	5.18 (131.5)	2.66 (67.5)	
BG□ □-PS12-20	3/4 PS	3/4 PS								
BG□ □-TS16-20	1" TS	1" TS								
BG□ □-MTB25-20	25×3.5 mm Tube Butt Weld	25×3.5 mm Tube Butt Weld								
BG□ □-MTS25-20	25 mm Tube Socket Weld	25 mm Tube Socket Weld								
BG□ □-FL16-20	1" FITOK	1" FITOK								
BG□ □-ML22-20	22 mm FITOK	22 mm FITOK								
BG□ □-ML25-20	25 mm FITOK	25 mm FITOK								
BG□ □-FNS16-25	1 Female NPT	1 Female NPT		93.0	3.54 (90.0)	1.77 (45.0)	1.57 (40.0)	5.95 (151.2)	3.08 (78.2)	
BG□□-FRP16-25	1 Female BSPP	1 Female BSPP	0.98							
BG□ □-PS16-25	1 PS	1 PS	(25.0)							
BG□ □-PB16-25	1×SCH80 Pipe Butt Weld	1×SCH80 Pipe Butt Weld								

^{1.} FITOK means FITOK double ferrule tube fittings, TS means fractional tube socket weld, MTS means metric tube socket weld, TB means fractional tube butt weld, MTB means metric tube butt weld, PS means pipe socket weld, and PB means pipe butt weld.

Seal Kits

Valve Orifice	Basic Seal Kit Ordering Number	Content				
05/07	T-BG-2-RK					
11/13	T-BG-4-RK	Seat, flange seal, lower packing,				
15	T-BG-6-RK	upper packing, instructions				
20	T-BG-12-RK					
25	T-BG-16-RK	Seat, flange seal, stem bearing, packing support, lower packing, upper packing, instructions				

Locking Device

- Lock BG series valves, locking hole diameters of: valves with orifice 05 or 07 are 0.185 in (4.7 mm); valves with orifice 11, 13, 15, or 20 are 0.22 in (5.7 mm); valves with orifice 25 are 0.19 in (4.8 mm)
- To order a ball valve with locking device, add -L to the valve ordering number.
 Example: BGSS-FRT8-15-L



Diagram of Ball Valves with Locking Device and Orifice 05, 07, 11, 13, 15, or 20

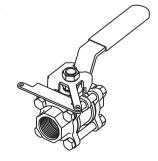


Diagram of Ball Valves with Locking Device and Orifice 25



^{2.} Butt welding ends are manually welded. For connections with orbital welding, please contact FITOK Group or our authorized distributors.

^{3.} Sizes and types listed are standard. Other sizes and types are available upon request, please contact FITOK Group or our authorized distributors.

^{4.} 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

