

High Temperature Metal-Seated Ball Valves

BK Series

Features

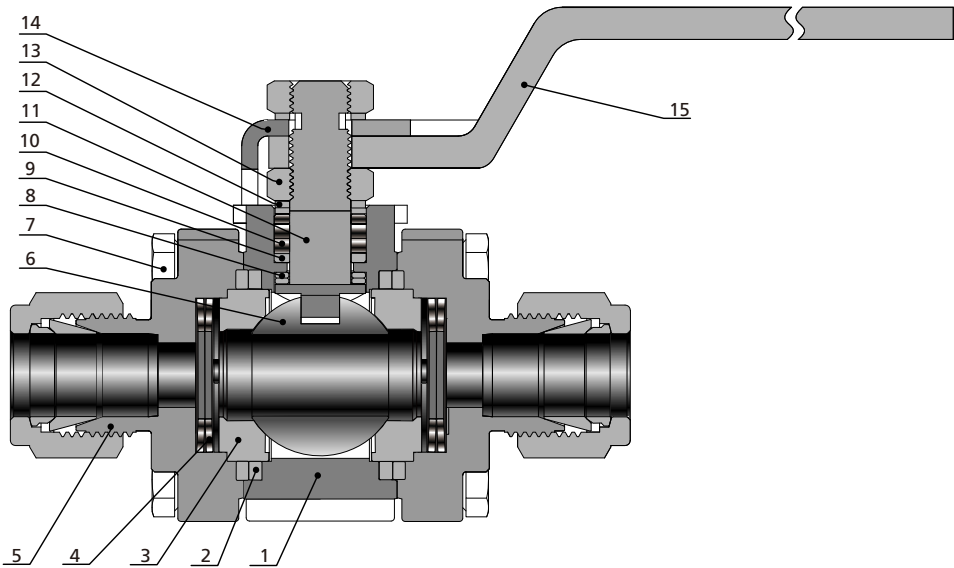
- Working pressures up to 1,000 psig (69 bar)
- Working temperature: -65°F to 662°F (-54°C to 350°C)
- Suitable for high-temperature and high-viscosity liquid media
- Floating ball design paired with disc-spring-loaded metal seats to compensate for seat wear and pressure/temperature changes, improving leak-tight integrity
- Blowout-proof stem minimizes failures caused by stem movement or looseness
- Each valve meets FCI 70-2 Class VI low pressure gas tightness and ISO 5208 Rate D high pressure liquid test requirements



Technical Data

Orifice, in. (mm)	0.5 (12.7), 1 (25.4)	
Material	316/304 SS	
Connection Type	FITOK Tube Fitting	Weld Fitting
Temperature, °F (°C)	-65 (-54) to 662 (350)	
Working Pressure, psig (bar)	1000 (69)	

Standard Materials of Construction

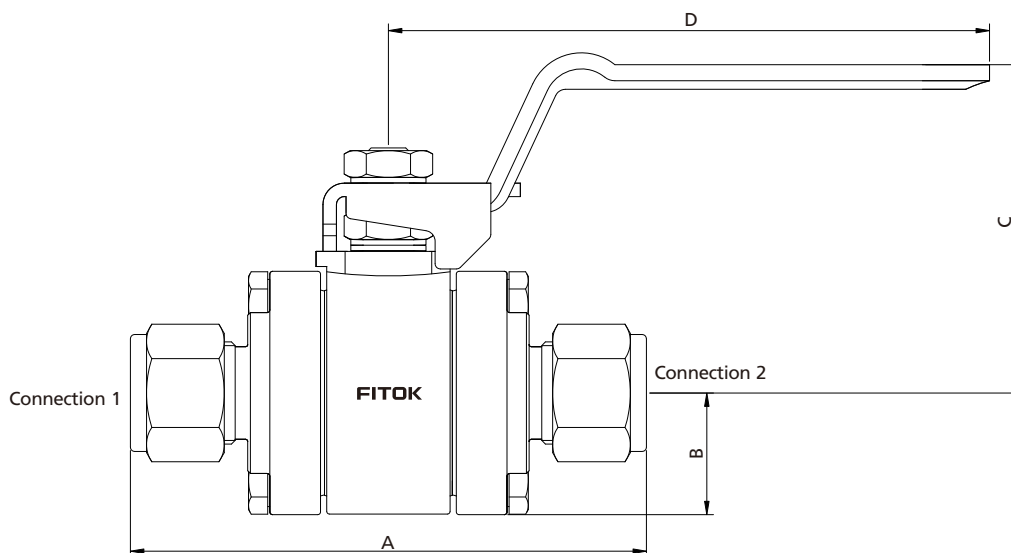


Item	Component	Material	
1	Body	<i>CF8M/A351</i>	<i>CF8/A351</i>
2	Flange Seal	Graphite	
3	Seat	<i>316 SS/A479, hardfacing stellite</i>	<i>304 SS/A479, hardfacing stellite</i>
4	Disc Spring	A75	
5	End Connection	<i>CF8M/A351</i>	<i>CF8/A351</i>
6	Ball	<i>316/304 SS, HVOF-sprayed Cr3C2/NiCr coatings</i>	
7	Hex Bolt (Full Thread)	Stainless Steel	
8	Stem Bearing	Stellite 6/A479	
9	Stem Washer	316 SS /A479	
10	Packing	Graphite	
11	Stem	316 SS/A479	
12	Stem Spring	Strain-hardened 316 SS/A240	
13	Hex Nut	Stainless Steel	
14	Stop Plate	304 SS/A240	
15	Handle	304 SS/A240	

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

Dimensions

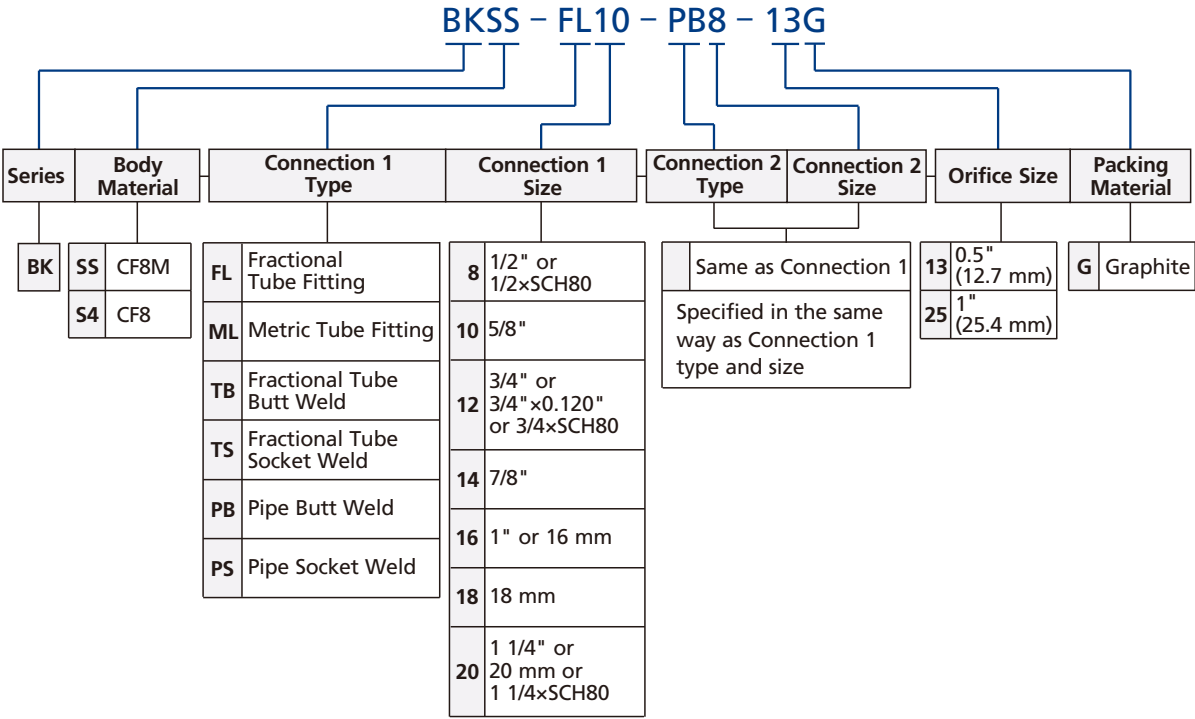
Dimensions are for reference only and are subject to change.



Basic Ordering Information	Connection Type		Orifice in. (mm)	Dimensions, in. (mm)			
	Connection 1	Connection 2		A	B	C	D
BK□□-FL8-13G	1/2" FITOK	1/2" FITOK	0.41 (10.4)	3.79 (96.2)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-FL10-13G	5/8" FITOK	5/8" FITOK	0.5 (12.7)	3.79 (96.2)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-FL12-13G	3/4" FITOK	3/4" FITOK		3.92 (99.6)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-ML16-13G	16 mm FITOK	16 mm FITOK		3.92 (99.6)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-ML18-13G	18 mm FITOK	18 mm FITOK		3.91 (99.4)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-TB12-13G	3/4" x 0.120" Tube Butt Weld	3/4" x 0.120" Tube Butt Weld		3.8 (96.6)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-TS12-13G	3/4" Tube Socket Weld	3/4" Tube Socket Weld		3.2 (80.2)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-PB8-13G	1/2 x SCH80 Pipe Butt Weld	1/2 x SCH80 Pipe Butt Weld		3.24 (82.34)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-PB12-13G	3/4 x SCH80 Pipe Butt Weld	3/4 x SCH80 Pipe Butt Weld		3.24 (82.34)	0.89 (22.7)	2.25 (57.1)	6.5 (165)
BK□□-TB24-25G	1 1/2" x 0.197" Tube Butt Weld	1 1/2" x 0.197" Tube Butt Weld	1 (25.4)	—	—	—	—
BK□□-TS20-25G	1 1/4" Tube Socket Weld	1 1/4" Tube Socket Weld		—	—	—	—
BK□□-PB20-25G	1 1/4 x SCH80 Pipe Butt Weld	1 1/4 x SCH80 Pipe Butt Weld		—	—	—	—

1. Connection type of "FITOK" means FITOK double ferrule tube fittings.
2. Sizes and types listed are standard. Other sizes and types are available upon request. For details, please contact FITOK Group or our authorized distributors.
3. Dimensions are shown with FITOK tube fitting nuts finger-tight. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

Ordering Number Description



1. If you need a port with orbital welding, please contact FITOK Group.

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