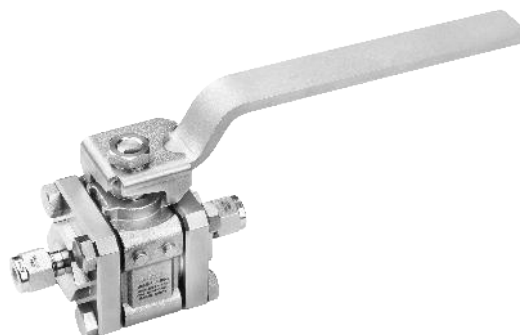


High Temperature Metal-Seated Ball Valves

BK Series

Features

- ⦿ Applied for high temperature and high viscosity liquid medium, not recommended for use in high temperature gas or low viscosity liquid medium
- ⦿ 3-piece precision cast body construction
- ⦿ Free floating ball design provides seat wear compensation
- ⦿ Ball and seats mate-lapped for 100% contact ensures absolute shutoff
- ⦿ High temperature resistant sealing materials for thermal service up to 662°F (350°C)
- ⦿ Blowout-proof stem
- ⦿ Positive handle stop
- ⦿ Orifice sizes: 0.5" (12.7 mm), 1" (25.4 mm), 1.5" (38.1 mm)
- ⦿ Variety of end connections
- ⦿ Test Standard: Low pressure gas tightness FCI 70-2 Class VI
High pressure liquid test ISO 5208 Rate D

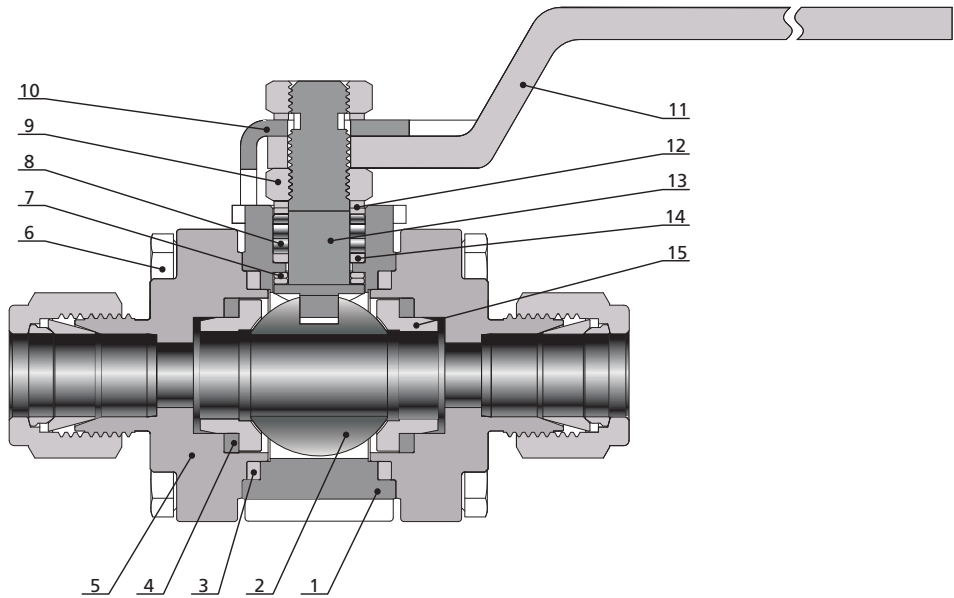


Technical Data

Orifice, in. (mm)	0.5 (12.7), 1 (25.4), 1.5 (38.1)	
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

Ball Valves
Plug Valves

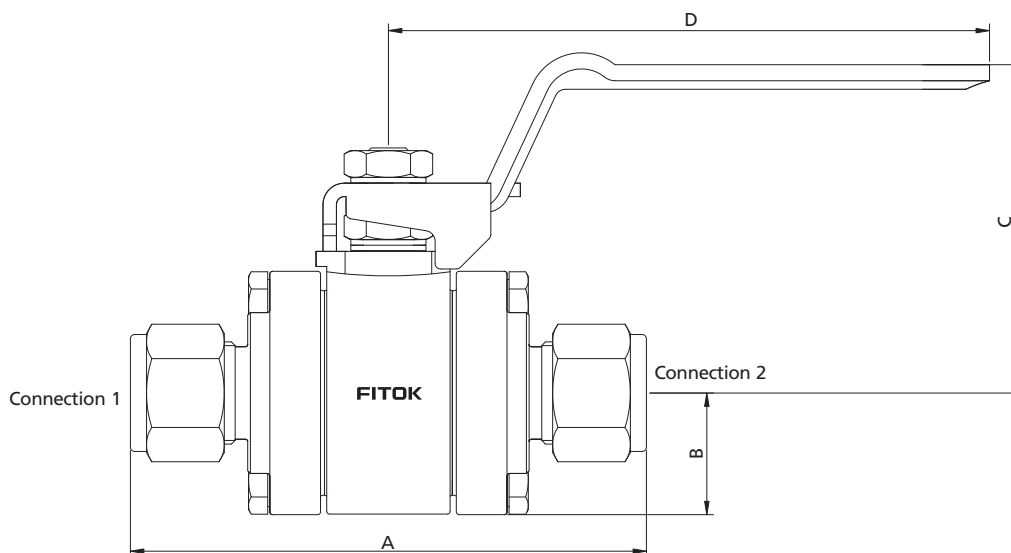


Item	Component	Material	
1	<i>Body</i>	<i>CF8M/A351</i>	<i>CF8/A351</i>
2	<i>Ball</i>	<i>316/304 SS, HVOF-sprayed WC coatings</i>	
3	<i>Flange Seal</i>	<i>Graphite</i>	
4	<i>Seat Packing</i>	<i>Graphite</i>	
5	<i>End Connection</i>	<i>CF8M/A351</i>	<i>CF8/A351</i>
6	Hex Bolt	Stainless Steel	
7	<i>Stem Bearing</i>	<i>Stellite 6/AMS5387</i>	
8	<i>Packing</i>	<i>Graphite</i>	
9	Hex Nut	316 SS/A479	
10	Stop Plate	304 SS/A240	
11	Handle	304 SS/A240	
12	Stem Spring	Strain-hardened 316 SS/A240	
13	<i>Stem</i>	<i>316 SS/A479</i>	
14	<i>Stem Washer</i>	<i>316 SS /A479</i>	
15	<i>Seat</i>	<i>316 SS/A479, hardfacing stellite</i>	<i>304 SS/A479, hardfacing stellite</i>

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

Dimensions

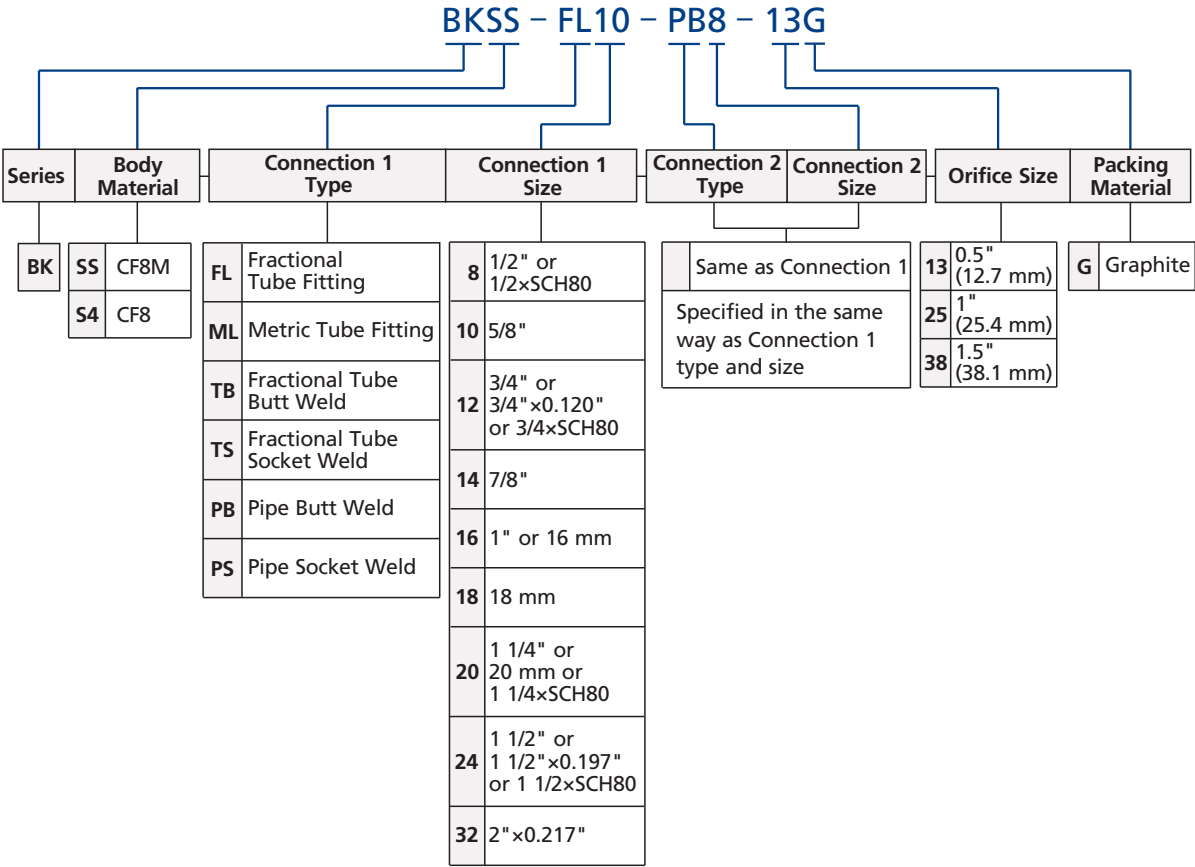
Dimensions are for reference only and are subject to change.



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		—	—	—	—
BK□□-TB32-38G	2" x 0.217" Tube Butt Weld	2" x 0.217" Tube Butt Weld	1.5 (38.1)	—	—	—	—
BK□□-PB24-38G	1 1/2 x SCH80 Pipe Butt Weld	1 1/2 x SCH80 Pipe Butt Weld		—	—	—	—
BK□□-PS24-38G	1 1/2" Pipe Socket Weld	1 1/2" Pipe Socket 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.