

TB SERIES BALL VALVES

8250 Boyle Parkway Twinsburg, Ohio U.S.A. 44087 www.mySSPusa.com 1.330.425.4250



TECHNICAL DETAILS

Body Material	316 Stainless Steel		
Operating Pressure	Up to 6000 psi (413 bar)		
Operating Temperature Range	0 to 450°F (-17 to 232°C) Optional Low-Temperature Service -40 to 200°F (-40 to 93°C)		
Maximum Cv	2-way: 1.0 to 1.6 (depending on end connection) 3-way: 0.75		

FEATURES

Compact, low operating torque

2 and 3 way flow patterns

Every SSP ball valve is 100% factory tested. Additional testing available.

1/8 to 1/2 inch and 6 to 12mm tube fitting or NPT end connections

Blow-out proof ball and stem design

Optional packing for Low Temperature Service available

BENEFITS

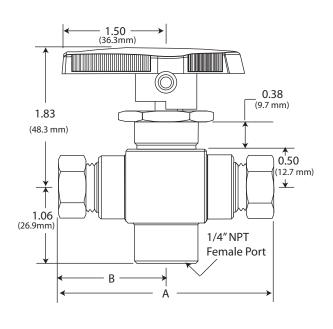
High Cycle Life

APPLICATIONS

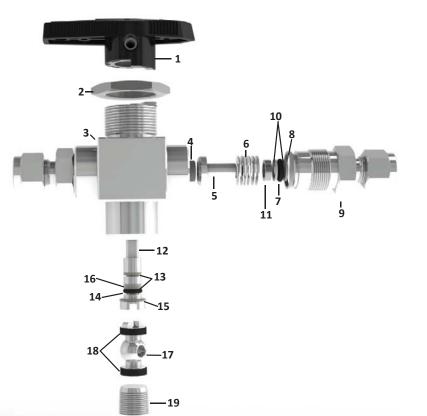
High Pressure - Severe Service

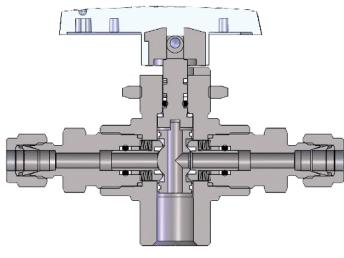
Diving

Research & Development



End Connection		TB Series	Dimensions			
Toma	C'	Basic Ordering Number	Α		В	
Туре	Size		in.	mm	in.	mm
- 1 110-	1/8	83K2PF-316	2.94	74.7	1.47	37.3
Female NPT	1/4	83K4PF-316	2.94	74.7	1.47	37.3
Fractional Tube Fitting	1/4	83KD4-316	4.14	105	2.07	52.6
	3/8	83KD6-316	4.39	112	2.19	55.6
	1/2	83KD8-316	4.6	117	2.3	58.4
	6	83KDM6-316	4.14	105	2.07	52.6
Metric Tube Fitting	8	83KDM8-316	1.15	105	2.07	52.6
	10	83KDM10-316	4.41	112	2.2	55.9
	12	83KDM12-316	4.6	117	2.3	58.4
End Connection		3-Way Valves		Dimensions		
Type Siz	Size	Basic Ordering	Α		В	
Туре	3126	Number	in.	mm	in.	mm
Female NPT	1/8	83XK2PF-316	2.94	74.7	1.47	37.3
Temale W	1/4	83XK4PF-316	2.94	74.7	1.47	37.3
Fractional 3/	1/4	83XKD4-316	4.14	105.0	2.07	52.6
	3/8	83XKD6-316	4.39	112.0	2.19	55.6
	1/2	83XKD8-316	4.60	117.0	2.30	58.4
	6	83XKDM6-316	4.14	105.0	2.07	52.6
Metric Tube	8	83XKDM8-316	4.15	105.0	2.07	52.6
Fitting	10	83XKDM10-316	4.41	112.0	2.2	55.9
	12	83XKDM12-316	4.60	117.0	2.3	58.4





Optional Low-Temperature valves have Buna O-rings and can be used in systems from -40 to 200°F (-40 to 37°C)

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Component	Material	ASTM Specification	
1. Handle	Nylon with SS insert		
2. Panel Nut	316 SS	A479/B164	
3.* Body	316 SS	A479/B164	
4.* Seat	PEEK, PCTFE, PTFE	F2026/A3595/D1710	
5.* Seat Carrier	316 SS	A479/B164	
6.* Seat Springs	Alloy X-750	AMS 5542	
7.* Seat Carrier O-Ring	Flourocarbon FKM		
8.* End Screw Seal	PTFE	D1710	
9.* End Screw	316 SS	A479/B164	
10.* Carrier Back-Up Ring	Re-Inforced PTFE		
11.* Carrier Gland	316 SS	A479/B164	
12.* Stem	316 SS	A479/B164	
13.* Stem Back-Up Ring	PTFE	D1710	
14.* Stem O-Ring	Flourocarbon FKM		
15.* Stem Bearing	PEEK	F2026	
16.* Stem Secondary Back-Up Ring	PEEK	F2026	
17.* Ball	316 SS	A479/B164	
18.* Trunnion Bearing	PEEK	F2026	
19^* 1/4" Countersunk Pipe Plug	316 SS	A479/B164	
Lubricant	PTFE-Based		



SSP ball valves are designed to be used in a fully open or closed position. Valves that have not been cycled for a long period of time may have a higher initial actuation torque.

For how-to-order information visit us on the web at www.mySSPusa.com, or consult your authorized SSP Representative



[^] TB Series 2-Way Ball Valve only



Please consider total system design considerations when selecting products to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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