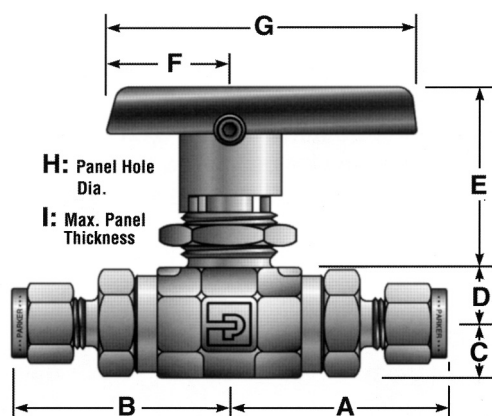


B Series Ball Valves



Dimensions & Flow Data



Model Shown: [4A-B6LJ-SSP](#)

End Connections		Port Size	Basic Part #	Flow Data				Dimensions Inches (mm)								
				Orifice		Cv	X _T *									
Port 1	Port 2			Inch	mm			A†	B†	C	D	E	F	G	H	I
1/16" A-LOK®	1A	B2L		0.052	1.3	0.06	0.45	1.30 (33.0)	1.30 (33.0)	0.33 (8.4)	0.33 (8.4)	0.94 (23.9)	0.75 (19.1)	1.88 (47.8)	0.58 (14.7)	0.13 (3.3)
1/16" CPI™	1Z			0.093	2.4	0.21	0.47	1.36 (34.5)	1.36 (34.5)							
1/8" A-LOK®	2A			0.165	4.2	0.93	0.43	1.07 (27.2)	1.07 (27.2)							
1/8" CPI™	2Z			0.165	4.2	0.93	0.43	1.18 (30.0)	1.18 (30.0)							
1/8" Female NPT	2F			0.165	4.2	0.93	0.43	1.48 (37.6)	1.48 (37.6)							
1/8" Male NPT	2M			0.165	4.2	0.93	0.43	1.35 (34.3)	1.35 (34.3)							
1/4" A-LOK®	4A			0.086	2.2	0.18	0.44	1.37 (34.8)	1.37 (34.8)							
1/4" CPI™	4Z															
1/4" Male NPT	4M			0.187	4.7	1.04	0.42	1.74 (44.2)	1.74 (44.2)							
1/4" Female NPT	4F			0.250	6.4	2.34	0.29	1.51 (38.4)	1.51 (38.4)							
1/4" Male NPT	4M	B6L		0.250	6.4	2.34	0.29	1.62 (41.1)	1.62 (41.1)	0.42 (10.7)	0.47 (11.9)	1.53 (38.9)	1.00 (25.4)	2.50 (63.5)	0.77 (19.6)	0.25 (6.4)
1/4" UltraSeal	4Q			0.180	4.6	1.03	0.42	1.51 (38.4)	1.51 (38.4)							
1/4" VacuSeal	4V			0.188	4.8	1.04	0.42	1.75 (44.5)	1.75 (44.5)							
3/8" A-LOK®	6A			0.250	6.4	2.34	0.29	1.80 (45.7)	1.80 (45.7)							
3/8" CPI™	6Z			0.250	6.4	2.34	0.29	1.62 (41.1)	1.62 (41.1)							
3/8" Male NPT	6M			0.250	6.4	2.34	0.29	1.51 (38.4)	1.51 (38.4)							
3/8" UltraSeal	6Q			0.187	4.7	1.04	0.42	1.75 (44.5)	1.75 (44.5)							
6mm A-LOK®	M6A			0.250	6.4	2.34	0.42	1.78 (45.2)	1.78 (45.2)							
6mm CPI™	M6Z			0.250	6.4	2.34	0.42	1.81 (46.0)	1.81 (46.0)							
8mm A-LOK®	M8A															
8mm CPI™	M8Z															
10mm A-LOK®	M10A	B8L		0.406	10.3	6.42	0.37	1.95 (49.5)	1.95 (49.5)	0.69 (17.5)	0.70 (17.8)	1.74 (44.2)	1.50 (38.1)	4.00 (101.6)	0.90 (22.9)	0.38 (9.7)
10mm CPI™	M10Z			0.406	10.3	6.42	0.37	2.15 (54.6)	2.15 (54.6)							
3/8" Female NPT	6F			0.406	10.3	6.42	0.37	2.34 (59.4)	2.34 (59.4)							
1/2" Female NPT	8F			0.406	10.3	6.42	0.37	2.22 (56.4)	2.22 (56.4)							
1/2" A-LOK®	8A			0.375	9.5	5.57	0.37	1.92 (48.8)	1.92 (48.8)							
1/2" CPI™	8Z			0.406	10.3	6.42	0.37	2.21 (56.1)	2.21 (56.1)							
1/2" Male NPT	8M			0.406	10.3	6.42	0.37	2.33 (59.2)	2.33 (59.2)							
1/2" UltraSeal	8Q			0.406	10.3	6.42	0.37	2.25 (57.1)	2.25 (57.1)							
1/2" VacuSeal	8V			0.375	9.5	5.57	0.37	2.33 (59.2)	2.33 (59.2)							
3/4" A-LOK®	12A			0.406	10.3	6.42	0.37	2.33 (59.2)	2.33 (59.2)							
3/4" CPI™	12Z															
3/4" Female NPT	12F															
12mm A-LOK®	M12A															
12mm CPI™	M12Z															
16mm A-LOK®	M16A															
16mm CPI™	M16Z															

* Tested in accordance with ISA S75.02. Gas flow will be choked when $P_1 - P_2 / P_1 = x_c$

† For CPI™ and A-LOK®, dimensions are measured with nuts in the finger tight position

Dimensions in inches/millimeters are for reference only, subject to change.

How to Order Options

	Example
Lock-out Devices Add the suffix -LD to the end of the part number to order directly on the valve. For field installation, simply substitute the correct valve series number after LD.	4F-B6LJ2-BN-SSP-LD LD-B8L
Colored Lever Handles: Add the designator corresponding to the correct handle as a suffix to the part number (black is standard). W = white, B = blue, G = green, R = red, Y = yellow.	M6A-B6XPKR-SSP- G
Colored Round Handles: Add the designator corresponding to the correct handle as a suffix to the part number. S = Black, S-W = white, S-B = blue, S-G = green, S-R = red, S-Y = yellow. NOTE: Round handles are not recommended for B8 valves with PEEK seats.	M6A-B6XPKR-SSP- S-G
Metal Oval Handles: Add the designator corresponding to the correct handle as a suffix to the valve part number. OVSS = stainless steel, SA = oval aluminum. NOTE: Not available in size 2.	8F-B8LPKR-SSP- OVSS
Stainless Steel Handles: Add the suffix -ST to the end of the part number (B6 and B8 only).	4F-B6LJ-SSP- ST
Pneumatic Actuators: For detailed actuator information, refer to the Pneumatic Actuators section of this catalog. For factory assembly, add the actuator part number as the suffix to the valve part number. For field installation, specify the actuator desired. The appropriate mounting hardware may be obtained by adding the valve series and actuator size to the prefix MK- .	2F-B2XJ2-V-SS- ACX62 ACX62 MK-B8L-61
Electric Actuators: For detailed actuator information refer to the Electric Actuators section of this catalog. For factory assembly, add the actuator part number as the suffix to the valve part number. For field installation, specify the actuator desired. The appropriate mounting hardware may be obtained by adding the valve series and actuator series to the prefix MK- .	8A-B8LPKR-BN-SS- 71A 71A MK-B8L-70
Oxygen Cleaning: Add the suffix -C3 to the end of the part number to receive valves cleaned and assembled for oxygen service in accordance with Parker Specification ES8003.	4A-B6LJ-EPR-SSP- C3
Ground Spring: Spring: To obtain B6 and B8 series valves with a grounding spring, add the suffix -SPG to the end of the part number.	8A-B8LJ2-SSP- SPG