

**General Description:** Parker manually, pneumatically, and electrically actuated two-way B Series Ball Valves provide quick 1/4 turn on-off control of fluids utilized in process and instrumentation applications. A broad selection of valve body, seat, and seal materials provide a wide range of pressures and temperatures at which the valve may be used.

**Features:**

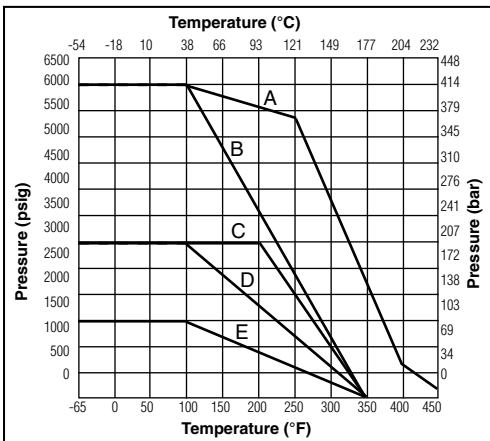
- Free floating ball design provides seat wear compensation.
- Available in 316 stainless steel and brass construction.
- Micro-finished ball provides a positive seal.
- Straight through flow path for minimum pressure drop.
- Bi-directional flow.
- 90 degree actuation.
- Panel mountable.
- Adjustable PTFE stem seal can be maintained in-line.
- Handle indicates flow direction.
- Low operating torques.
- Optional pneumatic and electric actuation.
- Optional live-loaded PTFE stem seals.
- Optional non-adjustable O-ring stem seals.

**SPECIFICATIONS:**

**Pressure Ratings:**

Material	CWP	with PTFE Seats
316 Stainless Steel	6000 psig*	1500 psig
Brass	3000 psig	1500 psig

\* B6 Series: 6000 psig rating or 4400 psig CWP  
B8 Series: 6000 psig rating or 4000 psig CWP



**Legend:** A – PEEK Seats B – PCTFE Seats C – Selector Valves  
D – Brass Valves E – PTFE Seats

**Note:** To determine MPa, multiply bar by 0.1

**Note:** This Pressure vs. Temperature chart reflects the maximum temperature range of indicated materials.

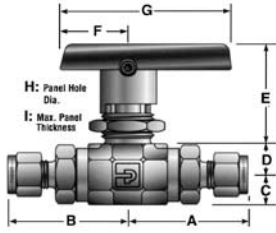
When combining seat and seal materials, the most restrictive temperature rating of the seats or seals becomes the limiting factor on valve temperature range. Elastomeric stem packing and seals are recommended if the application subjects the valve to thermal cycling.

**Temperature Ratings:**

- PTFE: -65°F to 350°F
- PCTFE: -65°F to 350°F
- PEEK: -65°F to 450°F
- Nitrile Rubber: -40°F to 250°F
- Fluorocarbon Rubber: -15°F to 450°F
- Ethylene Propylene Rubber: -65°F to 300°F
- Highly Fluorinated Fluorocarbon Rubber: -15°F to 200°F

**BALL VALVES**

**TWO-WAY B SERIES**



Model Shown: 4A-B6LJ-SSP

Part Size	Part No.	Flow Data			End Connections		Dimensions (in.)									
		Orifice (in.)	C <sub>v</sub>	X <sub>T</sub> *	Port 1	Port 2	A <sup>†</sup>	B <sup>†</sup>	C	D	E	F	G	H	I	
1A	B2L	0.052	0.06	0.45	1/16" A-LOK®	1.30	1.30									
1Z		0.052	0.06	0.45	1/16" CPI™	1.30	1.30									
2A		0.093	0.21	0.47	1/8" A-LOK®	1.36	1.36									
2Z		0.093	0.21	0.47	1/8" CPI™	1.36	1.36									
2F		0.165	0.93	0.43	1/8" Female NPT	1.07	1.07	0.33	0.33	0.94	0.75	1.88	0.58	0.13		
2M		0.165	0.93	0.43	1/8" Male NPT	1.18	1.18									
4A		0.165	0.93	0.43	1/4" A-LOK®	1.48	1.48									
4Z		0.165	0.93	0.43	1/4" CPI™	1.48	1.48									
4M	B6L	0.165	0.93	0.43	1/4" Male NPT	1.35	1.35									
4A		0.187	1.04	0.42	1/4" A-LOK®	1.74	1.74									
4Z		0.187	1.04	0.42	1/4" CPI™	1.74	1.74									
4F		0.250	2.34	0.29	1/4" Female NPT	1.51	1.51									
4M		0.250	2.34	0.29	1/4" Male NPT	1.62	1.62									
4Q		0.180	1.03	0.42	1/4" UltraSeal	1.51	1.51	0.42	0.47	1.53	1.00	2.50	0.77	0.25		
4V		0.188	1.04	0.42	1/4" VacuSeal	1.75	1.75									
6A		0.250	2.34	0.29	3/8" A-LOK®	1.80	1.80									
6Z	0.250	2.34	0.29	3/8" CPI™	1.80	1.80										
6M	B8L	0.250	2.34	0.29	3/8" Male NPT	1.62	1.62									
6Q		0.250	2.34	0.29	3/8" UltraSeal	1.51	1.51									
6F		0.406	6.42	0.37	3/8" Female NPT	1.95	1.95									
8F		0.406	6.42	0.37	1/2" Female NPT	2.15	2.15									
8A		0.406	6.42	0.37	1/2" A-LOK®	2.34	2.34									
8Z		0.406	6.42	0.37	1/2" CPI™	2.34	2.34									
8M		0.406	6.42	0.37	1/2" Male NPT	2.22	2.22	0.69	0.70	1.74	1.50	4.00	0.90	0.38		
8Q		0.375	5.57	0.37	1/2" UltraSeal	1.92	1.92									
8V	0.406	6.42	0.37	1/2" VacuSeal	2.21	2.21										
12A	B8L	0.406	6.42	0.37	3/4" A-LOK®	2.33	2.33									
12Z		0.406	6.42	0.37	3/4" CPI™	2.33	2.33									
12F		0.406	6.42	0.37	3/4" Female NPT	2.25	2.25									
12M		0.406	6.42	0.37	3/4" Male NPT	2.25	2.25									

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

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