

General Description: Parker manually, pneumatically, and electrically actuated three-way B Series Ball Valves may be used as diverting or selecting valves for fluids utilized in process and instrumentation applications. The standard three-way diverter valve is designed to accept media through the bottom port and direct it out of two outlet ports. When equipped with spring-loaded seats, the three-way valve may be used as a selector valve, alternately accepting media from either of two inlet sources (side ports) and directing it through a single outlet (bottom port).

- Features:**
- Available in 316 stainless steel and brass construction.
 - Micro-finished ball provides a positive seal.
 - 180 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.

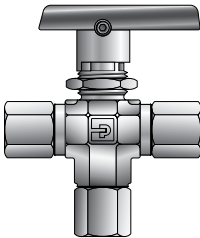
DIVERTER VALVE SPECIFICATIONS

Pressure Ratings with bottom port as inlet:

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

Pressure Ratings with side ports as inlet:
 150 psig



Model Shown:
4F-B6XJ2-BP

SELECTOR VALVE SPECIFICATIONS

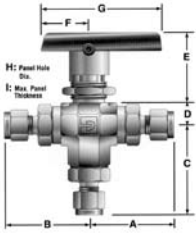
Pressure Rating with bottom port as inlet:
 (Spring Loaded – B6 and B8 models only)

Material	CWP
316 Stainless Steel	6000 psig*
Brass	3000 psig

Pressure Rating with side ports as inlet:
 316 Stainless Steel and Brass - 3000 psig CWP

BALL VALVES

THREE-WAY B SERIES

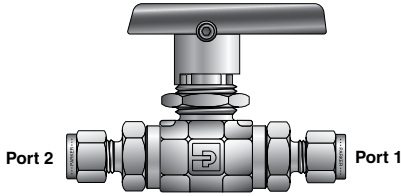


**Model Shown:
4Z-B6XSPKR-V-SSP**

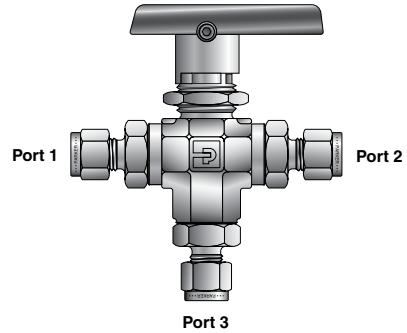
Port Size	Part No.	Flow Data			End Connections			Dimensions (in.)														
		Orifice (in.)	C _v	X _T *	Port 1	Port 2	Port 3	A†	B†	C	D	E	F	G	H	I						
1A	B2X	0.052	0.06	0.56	1/16" A-LOK®			1.30	1.30	1.39	0.33	0.94	0.75	1.88	0.58	0.13						
1Z		0.052	0.06	0.56	1/16" CPI™			1.30	1.30	1.39												
2A		0.093	0.21	0.64	1/8" A-LOK®			1.36	1.36	1.45												
2Z		0.093	0.21	0.64	1/8" CPI™			1.36	1.36	1.45												
2F	B6X	0.165	0.63	0.59	1/8" Female NPT			1.07	1.07	1.15							0.47	1.53	1.00	2.50	0.77	0.25
2M		0.165	0.63	0.59	1/8" Male NPT			1.18	1.18	1.26												
4A		0.165	0.63	0.59	1/4" A-LOK®			1.48	1.48	1.56												
4Z		0.165	0.63	0.59	1/4" CPI™			1.48	1.48	1.56												
4M	0.165	0.63	0.59	1/4" Male NPT			1.35	1.35	1.43													
4A	B8X	0.187	0.70	0.69	1/4" A-LOK®			1.74	1.74	1.88	0.70	1.74	1.50	4.00	0.90	0.38						
4Z		0.187	0.70	0.69	1/4" CPI™			1.74	1.74	1.88												
4F		0.196	0.87	0.74	1/4" Female NPT			1.51	1.51	1.65												
4M		0.196	0.87	0.74	1/4" Male NPT			1.62	1.62	1.76												
4Q		0.180	0.68	0.67	1/4" UltraSeal			1.51	1.51	1.65												
4V		0.188	0.70	0.69	1/4" VacuSeal			1.75	1.75	1.89												
6A		0.196	0.87	0.74	3/8" A-LOK®			1.80	1.80	1.94												
6Z		0.196	0.87	0.74	3/8" CPI™			1.80	1.80	1.94												
6M	0.196	0.87	0.74	3/8" Male NPT			1.62	1.62	1.76													
6Q	0.196	0.87	0.74	3/8" UltraSeal			1.52	1.52	1.65													
6F	B8X	0.406	3.62	0.64	3/8" Female NPT			1.95	1.95	2.29												
8A		0.406	3.62	0.64	1/2" A-LOK®			2.34	2.34	2.68												
8Z		0.406	3.62	0.64	1/2" CPI™			2.34	2.34	2.68												
8F		0.406	3.62	0.64	1/2" Female NPT			2.15	2.15	2.49												
8M		0.406	3.62	0.64	1/2" Male NPT			2.22	2.22	2.59												
8Q		0.375	3.46	0.62	1/2" UltraSeal			1.93	1.93	2.27												
8V		0.406	3.62	0.64	1/2" VacuSeal			2.21	2.21	2.55												
12A		0.406	3.62	0.64	3/4" A-LOK®			2.33	2.33	2.68												
12Z		0.406	3.62	0.64	3/4" CPI™			2.33	2.33	2.68												
12F		0.406	6.42	0.37	3/4" Female NPT			2.25	2.25	2.59												

* 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



Model Shown:
6A-B6LJ2-SSP



Model Shown:
6A-B6XJ2-SSP

Port 1	Port 2	Port 3	Valve Series	Seat Material	Seal Material	Body Material
1A 1Z 2A 2Z 2F 2M 4A 4Z 4M	1/16" A-LOK® 1/16" CPI™ 1/8" A-LOK® 1/8" CPI™ 1/8" Female NPT 1/8" Male NPT 1/4" A-LOK® 1/4" CPI™ 1/4" Male NPT		B2L B2X	J PTFE J2 PCTFE	(Blank) PTFE V Fluorocarbon Rubber EPR Ethylene Propylene Rubber BN Nitrile Rubber KZ Highly Fluorinated Fluorocarbon Rubber LT Live-Loaded PTFE Packing with PTFE Seals VLT Live-Loaded PTFE Packing with Fluorocarbon Rubber Seals EPRLT Live-Loaded PTFE Packing with Ethylene Propylene Rubber Seals BNLT Live-Loaded PTFE Packing with Nitrile Rubber Seals KZLT Live-Loaded PTFE Packing with Highly Fluorinated Fluorocarbon Rubber Seals	SSP 316 Stainless Steel BP Brass
4A 4Z 4F 4M 4Q 4V 6A 6Z 6M 6Q	1/4" A-LOK® 1/4" CPI™ 1/4" Female NPT 1/4" Male NPT 1/4" UltraSeal 1/4" VacuSeal 3/8" A-LOK® 3/8" CPI™ 3/8" Male NPT 3/8" UltraSeal		B6L B6X	J PTFE J2 PCTFE S2 Spring-Loaded PCTFE PKR PTFE Lubricated PEEK SPKR Spring-Loaded PTFE Lubricated PEEK		
6F 8A 8Z 8F 8M 8Q 8V 12A 12Z 12F	3/8" Female NPT 1/2" A-LOK® 1/2" CPI™ 1/2" Female NPT 1/2" Male NPT 1/2" UltraSeal 1/2" VacuSeal 3/4" A-LOK® 3/4" CPI™ 3/4" Female NPT		B8L B8X	J PTFE J2 PCTFE S2 Spring-Loaded PCTFE PKR PTFE Lubricated PEEK SPKR Spring-Loaded PTFE Lubricated PEEK		

Notes: 1. Panel Mounting Nut supplied with each valve. Various port combinations are available.
2. See How to Order.
3. VacuSeal and UltraSeal are not available in Brass.
4. 12F (3/4" Female NPT) not panel mountable.