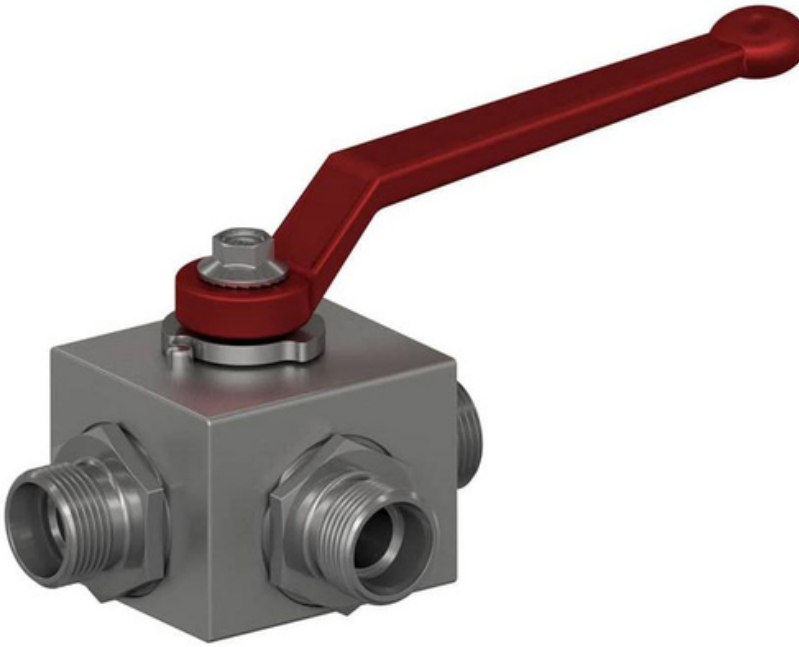


HYDRAULIC VALVES

TRIDENT PRECISION INTERNATIONAL

Plot No :- 151, Sector-06 , IMT Manesar ,Gurgaon , Haryana , 122050

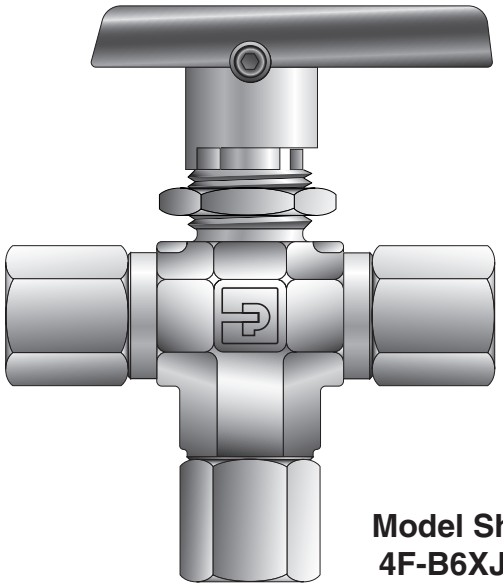
B

Introduction

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. Monel® Alloy 400 and Hastelloy® C-276 construction available for Diverter Valves upon request.
- Micro-finished ball provides a positive seal.
- Wide variety of US Customary and SI ports.
- 180 degree actuation.
- Panel mountable.
- Adjustable PTFE stem seal can be maintained in-line.
- Handle indicates flow direction.
- Low operating torques.
- Positive handle stops.
- Color coded handles.
- Optional pneumatic and electric actuation.
- Optional live-loaded PTFE stem seals.
- Optional non-adjustable O-ring stem seals.
- Optional stainless steel and extended handles.



Model Shown:
4F-B6XJ2-BP

Diverter Valve Specifications

Pressure Ratings with bottom port as inlet:

Material	Pressure Rating	with PTFE Seats
316 Stainless Steel	6000 psig (414 bar)*	1500 psig (103 bar)
Brass	3000 psig (207 bar)	1500 psig (103 bar)
Monel® Alloy 400	3000 psig (207 bar)	1500 psig (103 bar)
Hastelloy® C-276	4000 psig (276 bar)	1500 psig (103 bar)

* B6 Series: 6000 psig rating or 4400 psig (303 bar) CWP
B8 Series: 6000 psig rating or 4000 psig (276 bar) CWP

Pressure Rating and Tubing Selection

For working pressures of A-LOK® and CPI™ tube connections,

Pressure Rating with side ports as inlet:

150 psig (10 bar)

Selector Valve Specifications

(Spring Loaded – B6 and B8 models only)

Pressure Rating with bottom port as inlet:

316 Stainless Steel..... 6000 psig (414 bar) CWP*
Brass .....3000 psig (207 bar) CWP

Pressure Rating with side ports as inlet:

316 Stainless Steel and Brass....3000 psig (207 bar) CWP

Pressure Rating and Tubing Selection

For working pressures of A-LOK® and CPI™ tube connections, please see the Instrument Tubing Selection Guide (Bulletin 4200-TS), found in the Technical Section of the Parker Instrumentation Process Control Binder, or the Parker Instrument Fitting Installation Manual (Bulletin 4200-B4).

For working pressures of valves with external or internal pipe threads, please see Catalog 4260, Instrumentation Pipe Fittings.

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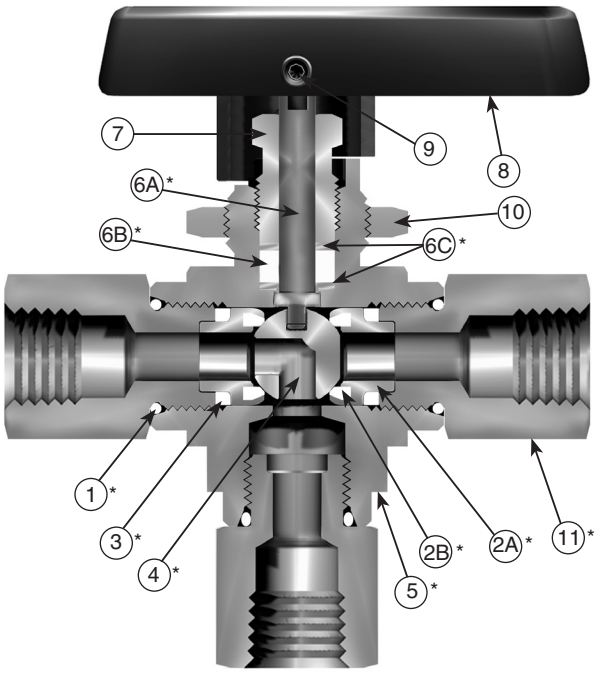
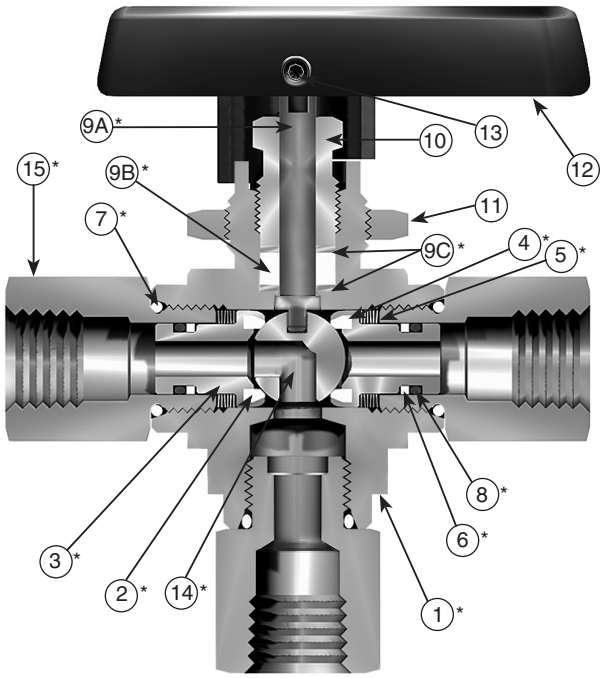
Diverter Valve



Model Shown: 4F-B6XJ-SSP

Selector Valve



Model Shown: 4F-B6XS2-SSP

Materials of Construction

Item #	Part Description	Stainless Steel	Brass
*1	Connector O-Ring	PTFE**	
*2A	Seat Retainer	ASTM A 276 Type 316	ASTM B 16 Alloy C36000
*2B	Seat	PTFE, PCTFE, PEEK	
*3	Retainer Seal	PTFE**	
*4	Ball	316 Stainless Steel	
*5	Body	ASTM A 351 Grade CF3M	ASTM B 283 Alloy C37700
*6A	Stem	ASTM A 276 Type 316	
*6B	Stem Seal	PTFE**	
*6C	Stem Washer	316 Stainless Steel	
7	Packing Nut	ASTM A 479 Type 316	ASTM B 453 Alloy C34000
8	Handle	Nylon 6/6	
9	Handle Set Screw	Stainless Steel	
10	Panel Nut	316 Stainless Steel	
*11	End Connector	ASTM A 479 Type 316	ASTM B 16 Alloy C36000

* Wetted Parts.
** Optional stem seal and body seal materials are described in the How to Order section.
Lubrication: Perfluorinated Polyether.

Materials of Construction

Item #	Part Description	Stainless Steel	Brass
1	Body	ASTM A 351 Grade CF3M	ASTM B 283 Alloy C37700
*2	Seat	PTFE, PEEK	
*3	Seat Retainer	ASTM A 276 Type 316	
4	Spring	Stainless Steel	
*5	Seat Retainer Washer	316 Stainless Steel	
*6	Back-up Ring	PTFE	
*7	Connector O-Ring	PTFE**	
*8	Seat Retainer O-Ring	Fluorocarbon Rubber**	
*9A	Stem	ASTM A 276 Type 316	
*9B	Stem Seal	PTFE*	
*9C	Stem Washer	316 Stainless Steel***	
10	Packing Nut	ASTM A 479 Type 316	ASTM B 453 Alloy C34000
11	Panel Nut	316 Stainless Steel	
12	Handle	Nylon 6/6	
13	Handle Set Screw	Stainless Steel	
*14	Ball	316 Stainless Steel	
*15	End Connector	ASTM A 479 Type 316	ASTM B 16 Alloy C36000

* Wetted Parts.
** Optional stem seal and body seal materials are described in the How to Order section.
Lubrication: Perfluorinated Polyether.
***The lower stem washer material is PEEK for B8 Selector Valves.
Lubrication: Perfluorinated polyether.

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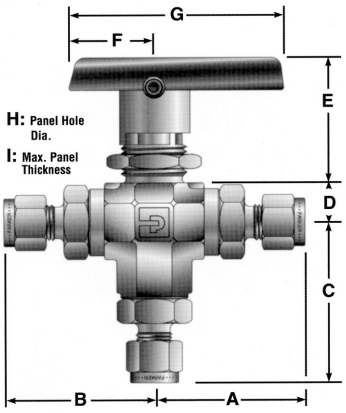
Dimensions & Flow Data



Model Shown:
4Z-B6XSPKR-V-SSP

Port Size	Basic Part #	Flow Data: Orifice Inch	Orifice mm	Cv	X_T*	End Connections: Port 1 / Port 2 / Port 3	Dimensions Inches (mm): A†	B†	C	D	E	F	G	H	I
1A	B2X	0.052	1.3	0.06	0.56	1/16" A-LOK®	1.30 (33.0)	1.30 (33.0)	1.39 (35.3)	0.33 (8.4)	0.94 (23.9)	0.75 (19.1)	1.88 (47.8)	0.58 (14.7)	0.13 (3.3)
1Z						1/16" CPI™									
2A		0.093	2.4	0.21	0.64	1/8" A-LOK®	1.36 (34.5)	1.36 (34.5)	1.45 (36.8)						
2Z						1/8" CPI™									
2F		0.165	4.2	0.63	0.59	1/8" Female NPT	1.07 (27.2)	1.07 (27.2)	1.15 (29.2)						
2M		0.165	4.2	0.63	0.59	1/8" Male NPT	1.18 (30.0)	1.18 (30.0)	1.26 (32.0)						
4A		0.165	4.2	0.63	0.59	1/4" A-LOK®	1.48 (37.6)	1.48 (37.6)	1.56 (39.6)						
4Z						1/4" CPI™									
4M		0.165	4.2	0.63	0.59	1/4" Male NPT	1.35 (34.3)	1.35 (34.3)	1.43 (36.3)						
M3A		0.086	2.2	0.18	0.63	3mm A-LOK®	1.37 (34.8)	1.37 (34.8)	1.45 (36.8)						
M3Z						3mm CPI™									
4A	B6X	0.187	4.7	0.70	0.69	1/4" A-LOK®	1.74 (44.2)	1.74 (44.2)	1.88 (47.8)	0.47 (11.9)	1.53 (38.9)	1.00 (25.4)	2.50 (63.5)	0.77 (19.6)	0.25 (6.4)
4Z						1/4" CPI™									
4F		0.196	5.0	0.87	0.74	1/4" Female NPT	1.51 (38.4)	1.51 (38.4)	1.65 (41.9)						
4M		0.196	5.0	0.87	0.74	1/4" Male NPT	1.62 (41.1)	1.62 (41.1)	1.76 (44.7)						
4V		0.188	4.8	0.70	0.69	1/4" VacuSeal	1.75 (35.1)	1.75 (35.1)	1.89 (37.1)						
6A		0.196	5.0	0.87	0.74	3/8" A-LOK®	1.80 (45.7)	1.80 (45.7)	1.94 (49.3)						
6Z						3/8" CPI™									
6M		0.196	5.0	0.87	0.74	3/8" Male NPT	1.62 (41.1)	1.62 (41.1)	1.76 (44.7)						
M6A		0.187	4.7	0.70	0.69	6mm A-LOK®	1.75 (44.5)	1.75 (44.5)	1.88 (47.8)						
M6Z						6mm CPI™									
M8A		0.196	5.0	0.87	0.74	8mm A-LOK®	1.78 (45.2)	1.78 (45.2)	1.91 (48.5)						
M8Z						8mm CPI™									
M10A		0.196	5.0	0.87	0.74	10mm A-LOK®	1.81 (46.0)	1.81 (46.0)	1.95 (49.5)						
M10Z						10mm CPI™									
6F	B8X	0.406	10.3	3.62	0.64	3/8" Female NPT	1.95 (49.5)	1.95 (49.5)	2.29 (58.2)	0.70 (17.8)	1.74 (44.2)	1.50 (38.1)	4.00 (101.6)	0.90 (22.9)	0.38 (9.7)
8A		0.406	10.3	3.62	0.64	1/2" A-LOK®	2.34 (59.4)	2.34 (59.4)	2.68 (68.1)						
8Z						1/2" CPI™									
8F		0.406	10.3	3.62	0.64	1/2" Female NPT	2.15 (54.6)	2.15 (54.6)	2.49 (63.2)						
8M		0.406	10.3	3.62	0.64	1/2" Male NPT	2.22 (56.4)	2.22 (56.4)	2.59 (65.8)						
8V		0.406	10.3	3.62	0.64	1/2" VacuSeal	2.21 (56.1)	2.21 (56.1)	2.55 (65.0)						
12A		0.406	10.3	3.62	0.64	3/4" A-LOK®	2.33 (59.2)	2.33 (59.2)	2.68 (68.1)						
12Z						3/4" CPI™									
12F		0.406	10.3	6.42	0.37	3/4" Female NPT	2.25 (57.1)	2.25 (57.1)	2.59 (65.8)						
M12A		0.375	9.5	3.46	0.62	12mm A-LOK®	2.33 (59.2)	2.33 (59.2)	2.67 (67.8)						
M12Z						12mm CPI™									
M16A		0.406	10.3	3.62	0.64	16mm A-LOK®	2.33 (56.9)	2.33 (56.9)	2.67 (65.5)						
M16Z						16mm CPI™									

* 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

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

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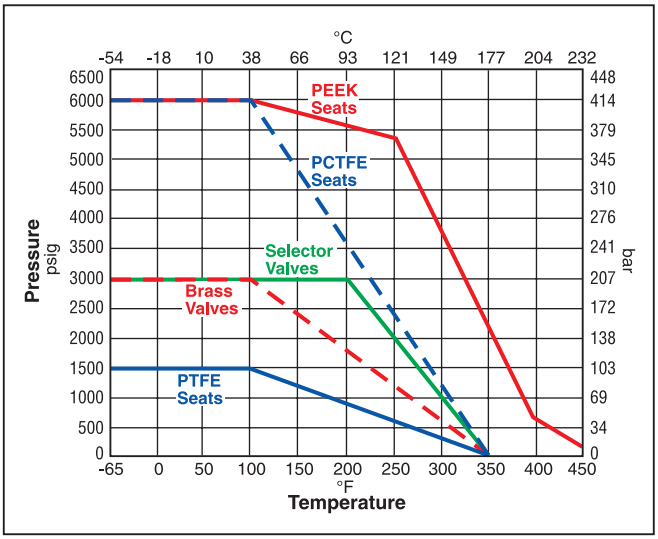
Pressure vs. Temperature



Note: To determine MPa, multiply bar by 0.1

Note: This Pressure versus 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.

Please see pages 2 and 4 for maximum pressure ratings.

Temperature Ratings:

PTFE ..... -65°F to 350°F (-54°C to 177°C)
PCTFE..... -65°F to 350°F (-54°C to 177°C)
PEEK..... -65°F to 450°F (-54°C to 232°C)
Nitrile Rubber..... -40°F to 250°F (-40°C to 121°C)
Fluorocarbon Rubber..... -15°F to 450°F (-26°C to 232°C)
Ethylene Propylene Rubber.... -65°F to 300°F (-54°C to 149°C)
Highly Fluorinated
Fluorocarbon Rubber ..... -15°F to 200°F (-26°C to 93°C)

Flow Calculations with 1000 psig (69 bar) Inlet Pressure

Two-Way

Valve Series	Max. Cv	Pressure Drop ΔP		Water @ 60°F (16°C)		Air @ 60°F (16°C)	
		psig	bar	gpm	m³/hr	scfm	m³/hr
B2L	0.93	10	0.7	2.9	0.7	92.4	156.2
		50	3.5	6.6	1.5	200.3	338.3
		100	6.9	9.3	2.1	272.0	458.9
B6L	2.34	10	0.7	7.4	1.7	231.7	391.5
		50	3.5	16.5	3.8	494.2	834.7
		100	6.9	23.4	5.3	657.0	1107.9
B8L	6.42	10	0.7	20.3	4.6	637.1	1076.8
		50	3.5	45.4	10.3	1373.6	2320.3
		100	6.9	64.2	14.6	1852.3	3124.8

Three-Way

Valve Series	Max. Cv	Pressure Drop ΔP		Water @ 60°F (16°C)		Air @ 60°F (16°C)	
		psig	bar	gpm	m³/hr	scfm	m³/hr
B2X	0.63	10	0.7	2.0	0.5	62.7	106.0
		50	3.5	4.5	1.0	137.1	231.7
		100	6.9	6.3	1.4	188.4	317.9
B6X	0.87	10	0.7	2.8	0.6	86.7	146.6
		50	3.5	6.2	1.4	190.5	321.8
		100	6.9	8.7	2.0	263.2	444.4
B8X	3.62	10	0.7	11.5	2.6	360.6	609.5
		50	3.5	25.6	5.9	789.7	1343.5
		100	6.9	36.2	8.2	1087.4	1836.6

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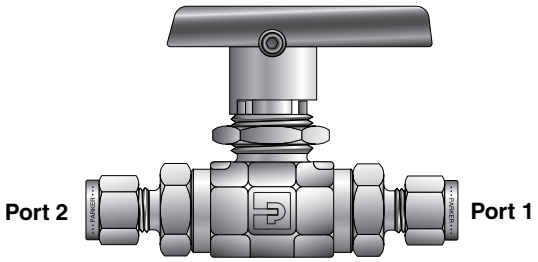
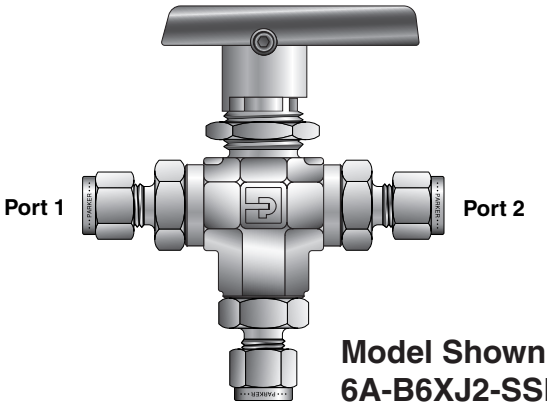
How to Order



Model Shown: 6A-B6LJ2-SSP



Model Shown: 6A-B6XJ2-SSP

Port 1	Port 2	Port 3	–	Valve Series	Seat Material	–	Seal Material	–	Body Material

Ports 1, 2 and 3		Valve Series	Seat Material		Seal Material		Body Material	
1A	1/16" A-LOK®	**B2L**	**J**	PTFE	**(Blank)**	PTFE	**SSP**	316 Stainless Steel
1Z	1/16" CPI™	**B2X**	**J2**	PCTFE	**V**	Fluorocarbon Rubber	**BP**	Brass
2A	1/8" A-LOK®				**EPR**	Ethylene Propylene Rubber	**MP**	Monel® Alloy 400
2Z	1/8" CPI™				**BN**	Nitrile Rubber	**HCP**	Hastelloy® C-276
2F	1/8" Female NPT				**KZ**	Highly Fluorinated Fluorocarbon Rubber		
2M	1/8" Male NPT				**LT**	Live-Loaded PTFE Packing with PTFE Seals		
4A	1/4" A-LOK®				**VLT**	Live-Loaded PTFE Packing with Fluoro carbon Rubber Seals		
4Z	1/4" CPI™				**EPRLT**	Live-Loaded PTFE Packing with Ethylene Propylene Rubber Seals		
4M	1/4" Male NPT				**BNLT**	Live-Loaded PTFE Packing with Nitrile Rubber Seals		
M3A	3mm A-LOK				**KZLT**	Live-Loaded PTFE Packing with Highly Flourinated Fluoro-carbon Rubber Seals		
M3Z	3mm CPI™							
4A	1/4" A-LOK®	**B6L**	**J**	PTFE				
4Z	1/4" CPI™	**B6X**	**J2**	PCTFE				
4F	1/4" Female NPT		**S2**	Spring-Loaded PCTFE				
4M	1/4" Male NPT		**PKR**	PTFE Lubricated PEEK				
4V	1/4" VacuSeal		**SPKR**	Spring-Loaded PTFE Lubricated PEEK				
6A	3/8" A-LOK®							
6Z	3/8" CPI™							
6M	3/8" Male NPT							
M6A	6mm A-LOK®							
M6Z	6mm CPI™							
M8A	8mm A-LOK®							
M8Z	8mm CPI™							
M10A	10mm A-LOK®							
M10Z	10mm CPI™							
6F	3/8" Female NPT	**B8L**	**J**	PTFE				
8A	1/2" A-LOK®	**B8X**	**J2**	PCTFE				
8Z	1/2" CPI™		**S2**	Spring-Loaded PCTFE				
8F	1/2" Female NPT		**PKR**	PTFE Lubricated PEEK				
8M	1/2" Male NPT		**SPKR**	Spring-Loaded PTFE Lubricated PEEK				
8V	1/2" VacuSeal							
12Z	3/4" CPI™							
12F	3/4" Female NPT							
M12A	12mm A-LOK®							
M12Z	12mm CPI™							
M16A	16mm A-LOK®							
M16Z	16mm CPI™							

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

See examples on page 9. See pages 10 and 11 for information about How to Order Options and Maintenance Kits.

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How to Order (Continued)

Examples: Two-Way Valves

4Z	4F	–	B6L	J	–	BP
Port 1	Port 2		Valve Series	Seat Material	Seal Material	Body Material

Describes a B6L ball valve with a 1/4" CPI™ end connection for port 1 and a 1/4" female NPT end connection for port 2, PTFE seats, PTFE stem and body seals, brass construction, with a panel mounting nut.

8A	*	–	B8L	J	–	BN	–	SSP
Port 1	Port 2		Valve Series	Seat Material		Seal Material		Body Material

Describes a B8L ball valve with a 1/2" A-LOK® end connections for ports 1 and 2, PTFE seats, Nitrile rubber stem and body seals, stainless steel construction, with a panel mounting nut.
*** Note:** If ports 1 and 2 are the same, eliminate the port 2 designator.

M3A	*	–	B2L	J2	–	VLT	–	SSP
Port 1	Port 2		Valve Series	Seat Material		Seal Material		Body Material

Describes a B2L ball valve with 3mm A-LOK® end connections for ports 1 and 2, PCTFE seats, fluorocarbon rubber body seals, PCTFE packing, stainless steel construction, with a panel mounting nut.
*** Note:** If ports 1 and 2 are the same, eliminate the port 2 designator.

Examples: Three-Way Diverter Valves

4Z	4Z	4F	–	B6X	J2	–	V	–	BP
Port 1	Port 2	Port 3		Valve Series	Seat Material		Seal Material		Body Material

Describes a B6X ball valve with 1/4" CPI™ end connections for side ports 1 and 2, 1/4" female NPT end connection for bottom port 3, PCTFE seats, fluorocarbon rubber stem and body seals, brass construction, and a panel mounting nut.

2Z	*	*	–	B2X	J	–	SSP
Port 1	Port 2	Port 3		Valve Series	Seat Material	Seal Material	Body Material

Describes a B2X ball valve with 1/8" CPI™ end connections for ports 1, 2, and 3, PTFE seats, PTFE stem and body seals, stainless steel construction, and a panel mounting nut.
*** Note:** If ports 1, 2, and 3 are the same, eliminate the port 2 and port 3 designators.

Examples: Three-Way Selector Valves

4M	4M	4F	–	B6X	S2	–	EPR	–	SSP
Port 1	Port 2	Port 3		Valve Series	Seat Material		Seal Material		Body Material

Describes a B6X ball valve with 1/4" male NPT end connections for side ports 1 and 2, 1/4" female NPT end connection for bottom port 3, spring-loaded PCTFE seats, ethylene propylene rubber stem and body seals, stainless steel construction, and a panel mounting nut.

8A	*	*	–	B8X	S2	–	BNLT	–	SSP
Port 1	Port 2	Port 3		Valve Series	Seat Material		Seal Material		Body Material

Describes a B8X ball valve with 1/2" A-LOK® end connections for ports 1, 2, and 3, spring-loaded PCTFE seats, Nitrile rubber body seals, live loaded PTFE packing, stainless steel construction, and a panel mounting nut.
*** Note:** If ports 1, 2, and 3 are the same, eliminate the port 2 and port 3 designators.

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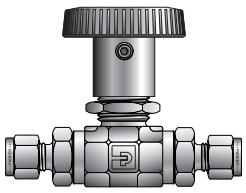
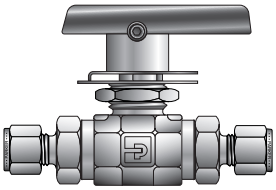
Options

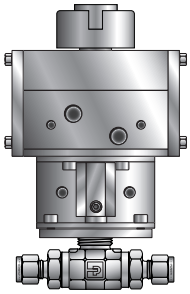


Round Handle

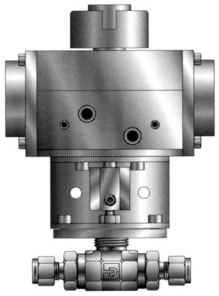


Lock-Out Handle

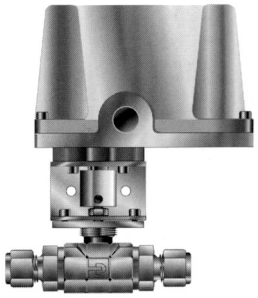
Actuator Options



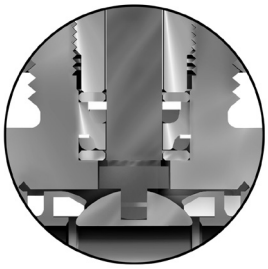
**Double Acting (61AD)
Pneumatic Actuator**



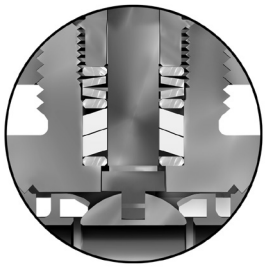
**Spring Returns (61AC & AO)
Pneumatic Actuator**



**70, 80 & 90 Series
Electric Actuator**



O-Ring Stem Seals



Live-Loaded Stem Seals

Two-Way Valve Upstream and Downstream Drain Options

For draining upstream or downstream media on two-way valves at pressures below 150 psig (10 bar), add the suffix **–VBU** (Vented Ball Upstream) or **–VBD** (Vented Ball Downstream). Example: 4Z-B6LJ-SSP-VBU. This option is also suitable to vent the ball cavity in vacuum applications. For pressures up to 3,000 psig (207 bar), select **S2** or **SPKR** spring-loaded seats and add the suffix **–VBU** (Vented Ball Upstream) or **–VBD** (Vented Ball Downstream). Example: 4Z-B6L**S2**-SSP-**VBU**

Note: VBD and VBU are ball cavity vents only.

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How to Order Options

	Examples
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.	2F-B2XJ2-V-SSP-**61ACX-2**
For field installation, specify the actuator desired.	**61ACX-2**
The appropriate mounting hardware may be obtained by adding the valve series and actuator size to the prefix **MK-**.	**MK-B2X-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.	8A-B8LPKR-BN-SS-**71A**
For field installation, specify the actuator desired.	**71A**
The appropriate mounting hardware may be obtained by adding the valve series and actuator series to the prefix MK-.	MK-**B8L-70**
Oxygen Cleaning: Add the suffix **-C3** to the end of the part number to receive valves cleaned and asembled for oxygen service in accordance with Parker Specification ES8003.	4A-B6LJ-EPR-SSP-**C3**

How to Order Maintenance Kits

Lock-Out Devices: For field installation, simply substitute the correct valve series number after LD.	**LD-B8L**
Metal Oval Handles: NOTE: Not available in size 2.	**B8-OVAL-SS-HANDLE-ASSY**
Colored Round Handle Kits: Series-Handle-Color. (Example consists of a green handle and handle screw.) **NOTE:** Round handles are not recommended for B8 valves with PEEK seats.	**B6-RD-HANDLE-GREEN**
Stainless Steel Handle Kits: Series-Handle-SS. (Example consists of a stainless steel handle and handle screw.)	**B8-HANDLE-SS**
Colored Lever Handle Kits: Series-Handle-Color. Black is standard. B = Blue, G = Green, R = Red (Example consists of a red handle and handle screw.)	**B6-HANDLE-RED**

Two-way Valve Seal Kits:

PTFE Stem Seal Kits: Kit-Valve Series and Seat Material-Body Material. (Consists of one PTFE stem seal, two stem seal washers, two encapsulated PTFE ball seats, two end connector PTFE seals, one assembly mandrel, maintenance instructions.)	**KIT-B2LJ-SS**
Elastomeric Stem Seal Kits: Kit-Valve Series and Seat Material-Elastomer Material-Body Material. (Consists of two stem seal Nitrile rubber O-rings, two PTFE back-up rings, two stem seal washers, two encapsulated PCTFE ball seats, two end connector Nitrile rubber O-ring seals, two seat retainer Nitrile rubber O-ring seals, stem glands and maintenance instructions.)	**KIT-B2LJ2-BN-SS**

Diverter Valve Seal Kits:

PTFE Stem Seal Kits: Kit-Valve Series and Seat Material-Body Material. (Consists of one PTFE stem seal, two stem seal washers, two encapsulated PEEK ball seats, three end connector PTFE seals, one assembly mandrel, maintenance instructions.)	**KIT-B6XPKR-SS**
Elastomeric Stem Seal Kits: Kit-Valve Series and Seat Material-Elastomer-Body Material. (Consists of two stem seal fluorocarbon rubber O-rings, two PTFE back-up rings, two stem seal washers, two encapsulated PTFE ball seats, three end connector fluorocarbon rubber O-ring seals, two seat retainer fluorocarbon rubber O-ring seals, stem glands and maintenance instructions.)	**KIT-B6XJ-V-SS**

Selector Valve Seal Kits:

PTFE Stem Seal Kits: Kit-Valve Series and Seat Material. (Consists of one PTFE stem seal, two stem seal washers, two encapsulated spring-loaded PCTFE ball seats, two seat retainer fluorocarbon rubber O-rings, three end connector PTFE seals, one assembly mandrel, maintenance instructions.)	**KIT-B6XS2-SS**
Elastomeric Stem Seal Kits: Kit-Valve Series and Seat Material-Elastomer. (Consists of two stem seal fluorocarbon rubber O-rings, two PTFE back-up rings, two stem seal washers, two encapsulated spring-loaded PEEK ball seat assemblies, three end connector fluorocarbon O-ring seals, two seat retainer fluorocarbon rubber O-rings, stem glands and maintenance instructions.)	**KIT-B6XSPKR-V-SS**

Live-loaded Seal Kits:

Kit-Valve Series and Seat Material-Seal Material-Body Material. (Consists of one live-loaded PTFE stem packing, two packing springs (B8 series valves have four springs), three packing washers, two PCTFE encapsulated ball seats, two Nitrile rubber end connector O-ring seals, two Nitrile rubber seat retainer O-ring seals, maintenance instructions.)	**KIT-B6LJ2-BNLT-SS**

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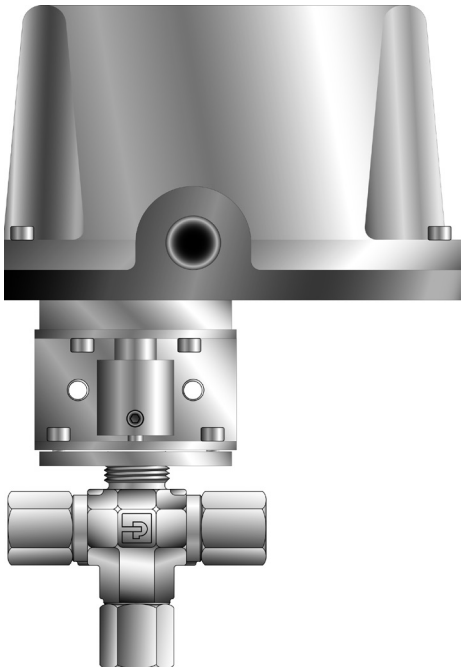
Introduction

Parker 70, 80 and 90 Series Electric Actuators are designed for electric actuation of Parker's B Series, MB Series, HB Series, and SWB Series Ball Valves. They provide reliable, cost effective, remote valve actuation. The simplicity of design provides accessible and easy wiring installation. The convenience and accuracy of advanced modular electronics gives the user the ability to wire in accessories without all the hard wiring hassles. The master PC ("mother") board accepts plug-in modular ("daughter") boards to allow for a variety of accessory functions. Other than connecting a power source, there is no internal wiring to tangle with, ever. With a variety of accessories as well as superior actuator design, Parker's Ball Valves with the 70, 80 or 90 Series actuators are the obvious choice.



Model Shown:
4F-B6XJ-SS-71XA

70 Series

Specifications

- Voltage: 24, 115 or 230 VAC (50/60 Hz); 12 or 24 VDC
- Torque: 150, 300, 600 in lb (17, 34, 68 N m)
- Enclosure: PVC composite
- Duty cycle: 25% (VAC models); 100% (VDC models)
- Actuator bolt pattern: ISO standard (5211)
- Conduit connection: 1/2" NPT
- Output shaft: Male, zinc plated steel
- Temperature limits (all models): 32°F to 150°F (0°C to 66°C); (-40°F [-40°C] minimum with heater and thermostat)

Features

- Single direction actuation
- PVC cover resists damage/UV radiation
- NEMA 4 (weatherproof), 4X (weatherproof with corrosion resistance)
- Hardened steel spur gear drive train provides consistent, long life performance
- Permanently lubricated gear train and bearings
- Low profile design/direct drive male output permit limited space installation
- Available for the B Series, MB Series, HB Series and SWB Series ball valves
- Available for two-way (90°) and three-way (180°) configurations
- Approximate weight: 6 lb (2.7 kg)
- Two Limit Switches: Single pole, double throw, rated for 1/3 HP, 10 amps @ 125/230 VAC, CSA certified

Options

- Additional limit switches and cams (specify up to 2)
- Heater and thermostat (For operation to -40°F [-40°C])

70R Series

Specifications

- Same as 70 series

Features

- Bi-directional (reversing) actuation
- Position indicator

Options

- Same as 70 Series

Additional Options

- Additional limit switches and cams (specify up to 2)
- Valve position indication

Materials of Construction

Part	Material
Cover	Composite, PVC
Base	Diecast zinc alloy
Gear Train	Hardened steel
Output Shaft	Zinc plated steel
Finish	Powder coated epoxy

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