B Series Ball Valves

Examples

B

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. 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-SSP-61ACX-2 61ACX-2 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. 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 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.)
 B6-RD-HANDLE-GREEN

 NOTE: Round handles are not recommended for B8 valves with PEEK seats.
 B8-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-B2LJ2-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,
 KIT-B2LJ2-BN-SS

(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.)

Diverter Valve Seal Kits:

 PTFE Stem Seal Kits: Kit-Valve Series and Seat Material-Body Material.
 KIT-B6XPKR-SS

 (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.)

 Elastomeric Stem Seal Kits: Kit-Valve Series and Seat Material-Elastomer-Body Material.
 KIT-B6XJ-V-SS

 (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.
 KIT-B6XS2-SS

 (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.
 KIT-B6XSPKR-V-SS

(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.)

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.)



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Parker Hannifin Corporation Instrumentation Products Division Jacksonville, AL USA http://www.parker.com/ipd

KIT-B6LJ2-BNLT-SS

Buy: www.ValinOnline.com | Phone 844-385-3099 | Email: CustomerService@valin.com

Introduction

Parker High Pressure HB4 Series Ball Valves provide reliable shut-off or switching functions. The upper and lower trunnion bearings enhance the resistance of the trunnions against seizure, and increase the valve life in extreme applications. The compact and rugged design employs spring-loaded seats for high cycle life and low operating torques at pressures up to 10,000 psig (689 bar).

Features

- ► PEEK trunnion bearings for longer cycle life
- Two-way and three-way designs
- Compact FNPT version for tight work areas
- Blow-out resistant two-piece ball/stem
- Full operating pressure at any port
- Low operating torque
- ► Manual, electric or pneumatic actuation
- ▶ Panel mountable to 3/8" (9.6mm) thickness
- No packing to adjust
- Color coded fracture resistant handles
- Handle indicates direction of flow
- Positive handle stops

HB

- Wide variety of US customary and SI ports
- Top of stem marked to indicate flow direction
- 100% factory tested
- Compact package
- Heat code traceability

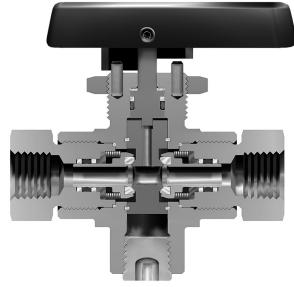
Specifications

Pressure	10,000 psig (689 bar) CWP with PEEK				
Rating	(PKR) Seats				
	6,000 psig (414 bar) CWP with PCTFE (K)				
	Seats				
Temp. Rating	-65°F to 400°F (-54°C to 204°C)				
Body Materials	Stainless steel				
Body Config.	Two-way and three-way				
Port	Tube compression (CPI™/A-LOK®)				
Connections	Short and long female NPT				
Port Size	1/8" – 1/2" (6 mm to 12 mm)				

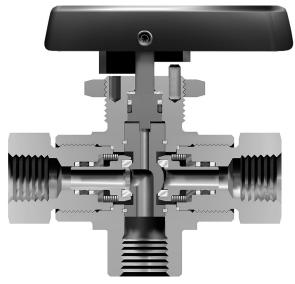
Flow Data

	Two-Way HB4L	Three-Way HB4X			
Cv	1.02	0.62			
X _T	0.42	0.71			
Orifice	0.188"	0.188"			
Office	(4.8mm)	(4.8mm)			

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



Two-Way HB4L Design



Three-Way HB4X Design



How to Order

The correct part number is easily derived from the following example and ordering chart. The five product characteristics required are coded as shown in the chart.

Example below describes a HB4X, three-way ball valve with 1/4" CPI™ compression end connections for ports 1 and 2, PEEK seats and fluorocarbon rubber seals, stainless steel body construction, and a panel mounting nut. Port 3 is always a 1/4" Female NPT port.

Exa	mple 1:	4Z		- н	B4XF	PKR –		– SSP
	Port 1 & 2	Valve Series Valve		Seat Material Seat	-	Seal Seal	-	Body Body
6A 6Z 6MP7 8A 8Z M6A M6Z M8A M8Z M10A M10Z M12A	1/8" Female NPT 1/4" Female NPT 1/4" Female NPT (Long) 1/4" A-LOK® Compression 1/4" CPI™ Compression 1/4" MPI™ Compression 3/8" A-LOK® Compression 3/8" CPI™ Compression 1/2" A-LOK® Compression 1/2" A-LOK® Compression 6 mm A-LOK® Compression 6 mm A-LOK® Compression 8 mm A-LOK® Compression 10 mm CPI™ Compression 10 mm A-LOK® Compression 11 mm A-LOK® Compression 12 mm A-LOK® Compression 12 mm A-LOK® Compression 12 mm CPI™ Compression 12 mm CPI™ Compression	Series HB4L 2-way HB4X 3-way	K	Material PEEK – Polyetheretherketone PCTFE – Polychloro-trifluoroethylene	Blank BN EPR	Material Fluoro-carbon Rubber Nitrile Rubber Ethylene Propylene Rubber	SSP	Material Stainless Steel with Panel Nut

Actuator Options



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



Spring Return (61AC & AO) Pneumatic Actuator



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

How to Order Options

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. Example: 4A-HB4LPKR-EPR-SSP-C3

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. Example: 4FL-HB4XK-SSP-61ACX-2

For field installation, specify the actuator desired. Example: 61ACX-2

The appropriate mounting hardware may be obtained by adding the valve series and actuator size to the prefix MK-. Example: MK-HB4X-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. Example: 6A-HB4XPKR-SSP-71XA

For field installation, specify the actuator desired Example: 71XA

The appropriate mounting hardware may be obtained by adding the valve series and actuator series to the prefix MK-. Example: MK-HB4X-70

How to Order Maintenance Kits

Lock-Out Devices

For field installation, simply substitute the correct valve series number after LD. Example: LD-HB4L

Handle Kits: HB4-Handle-Color (Example: HB4-HANDLE-RED) – Consists of a red handle and handle screw.

Two-way Seal Kits: KIT-HB4LPKR-SS or KIT-HB4LK-SS - Consists of a two-way trunnion, springs, stem washers, stem seal, back-up ring, end connector seals, seat springs, seat retainer seals, seat retainer back-up rings, and seat assemblies.

Three-way Seal Kits: KIT-HB4XPKR-SS or KIT-HB4XK-SS – Consists of a three-way trunnion, springs, stem washers and stem seal, back-up ring, end connector seals, seat springs, seat retainer seals, seat retainer back-up rings, and seat assemblies.

