JFS

BEIJING JOINT FLOW SYSTEM CO.

PLUG VALVE

MULTI-PORT PLUG VALVE

The Multi-Port Plug Valve is a 3-way, non-lubricated diverter valve, which features an internally epoxy coated body and an elastomer coated plug face and designed for use in water and wastewater applications , and HVAC systems.

Use of Multi-port Plug Valves is advantageous in many installations, providing simplification of piping and convenience in operation. One 3-way multiport valve may be used in place of two or three straightway valves, and in most cases will also eliminate other fittings such as tees and elbows.

FEATURE

- Internally epoxy coated
- Elastomer faced plug
- Wrench, Gear or actuator operation is available
- Variety of flange drillings available
- Valves are furnished with replaceable sleeve type bearings which are of sintered, oil impregnated austenitic stainless steel
- Valve shaft seals are 'U' cup, self adjusting and replaceable without removing the bonnet from the valve.
- The valve bonnet seal is an 'O' ring allowing metal to metal body/ bonnet contact.

CONSTRUCTION

{Body} The eccentric plug valve body casting is in cast iron using high pressure molding techniques for consistent quality and precision. Flange diameter and thickness conform to ANSI B 16.1 Class 125. Flange drillings of PN10, PN16, ANSI

{Plug} Supported on integral trunnions, the solid ductile iron tapered plug is faced with any of a variety of elastomers that are vulcanized in place and ground to size. Plug position and shut off is controlled by use of adjustment gland attached to the plug shaft

{Seat} The multiport valve employs a corrosion and abrasion resistant epoxy seat on all sizes

{Stem Seal} Multiple self-adjusting "U" cup seals are used to prevent stem leakage and provide years of trouble free service

{Bearings} The plug rotates in oil impregnated sintered 316 grade stainless steel bearings located in both the body and bonnet

{Bonnet Seal} Superior "O" ring seal with metal-metal contact means lower stresses compared to traditional compression gaskets

{Flow} The wide port design with streamlined internal contours allows for a high capacity flow in the full open position reducing turbulence and pressure drop through the valve

{Position Indication} Active port indication is standard on all wrench operated and gear operated multiport valves

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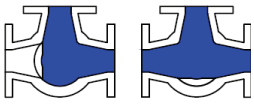
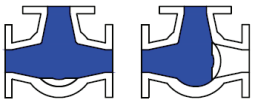
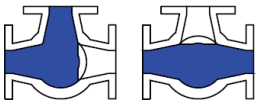
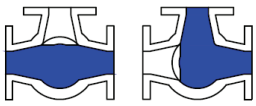
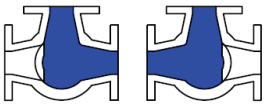
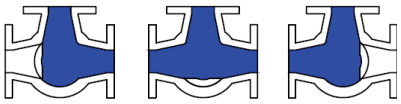
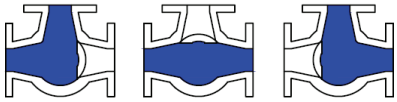
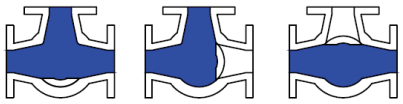
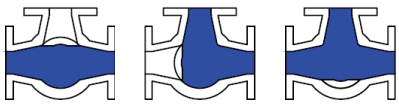
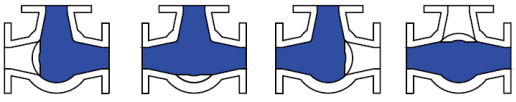
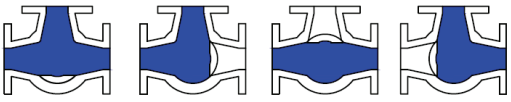
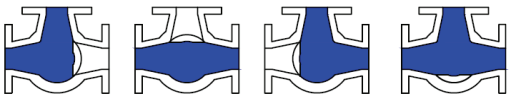
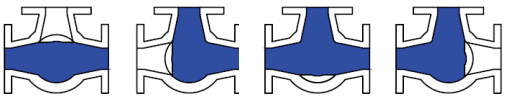
PORT ARRANGEMENT

When ordering the multi-port plug valves, specify the nominal size, nominal pressure and number of port arrangements.

3-way, 3-port 90° turn Two Positions	 Position 1 Position 2 **Arrangement 1**	 Position 1 Position 2 **Arrangement 2**
	 Position 1 Position 2 **Arrangement 3**	 Position 1 Position 2 **Arrangement 4**
3-way, 3-port 180° turn Two Positions	 Position 1 Position 2 **Arrangement 5**	
3-way, 3-port 180° turn Three Positions	 Position 1 Position 2 Position 3 **Arrangement 6**	 Position 1 Position 2 Position 3 **Arrangement 7**
	 Position 1 Position 2 Position 3 **Arrangement 8**	 Position 1 Position 2 Position 3 **Arrangement 9**
3-way, 3-port 270° turn Four Positions	 Position 1 Position 2 Position 3 Position 4 **Arrangement 10**	 Position 1 Position 2 Position 3 Position 4 **Arrangement 11**
	 Position 1 Position 2 Position 3 Position 4 **Arrangement 12**	 Position 1 Position 2 Position 3 Position 4 **Arrangement 15**

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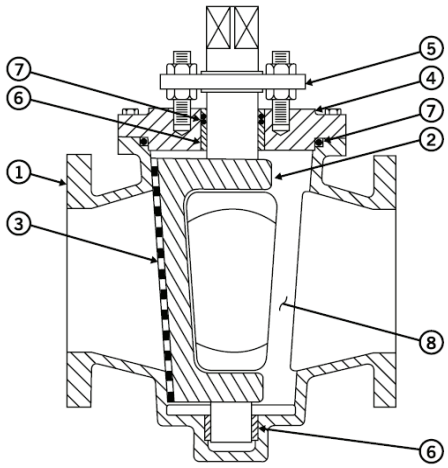
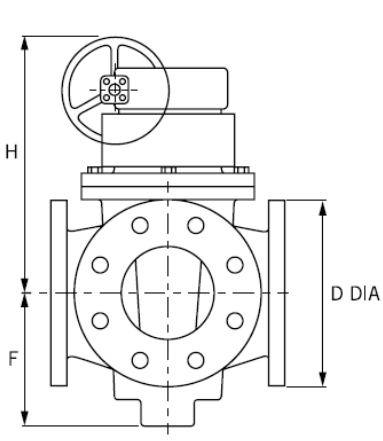
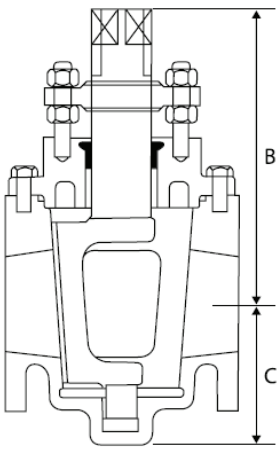
PARTS LIST & MATERIAL

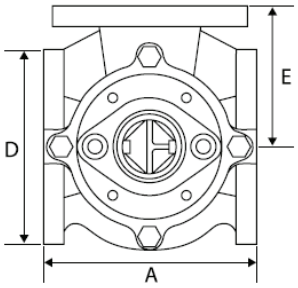
No.	Parts Name	Material
1	Body	Cast Iron (ASTM A126 GR.B)
2	Plug	Ductile Iron (ASTM A536)
3	Plug Coating	Elastomeric (NBR, NEOPRENE, EPDM)
4	Bonnet	Cast Iron (ASTM A126 GR.B)
5	Gland	Ductile Iron (ASTM A536)
6	Bearing	Stainless Steel (ANSI 316)
7	Seal	Elastomeric (NBR, NEOPRENE, EPDM)
8	Seat	Epoxy



DIMENSION (175PSI)







DN (mm)	NPS (inch)	A	B	C	D	E	H	Weight	
								W.O.	G.O.
80	3	203.2	231.9	120.7	190.5	139.7	348.3	29.5	49.9
100	4	251.0	346.2	152.4	228.6	165.1	485.9	54.5	90.8
150	6	295.4	384.3	179.3	279.4	203.2	517.7	77.2	113.5
200	8	352.6	485.9	279.4	342.9	228.6	622.3	147.6	183.9
250	10	425.5	485.9	279.4	406.4	279.4	622.3	172.6	208.8
300	12	482.6	539.8	327.2	482.6	293.6	673.1	215.7	252.0

*Flange dimensions refer to Catalogue of Accessory: Series 8 – Flange.

*More dimension specifications are available on request.