General Description

Series BV3D is a 3-way diverter. The product is rated at 207 Bar (3000 PSI) and designed to economically satisfy many 3-way applications.

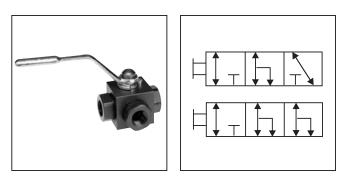
Operation

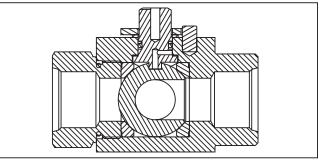
Series BV3D operates by rotating the handle 90° or 180° depending on the chosen ball pattern. There is a slight port to port overlap. Pressure is applied to Port 1.

Specifications

Performance Curves

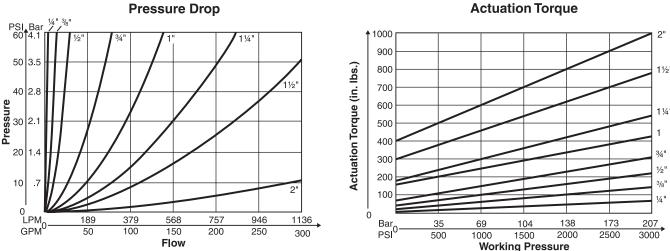
Maximum Pressure	207 Bar (3000 PSI)			
Body Material	Carbon Steel, Black Oxide Stainless Steel			
Ball Material	Steel, Chrome Plated			
Stem Material	Steel, Zinc Plated Stainless Steel			
Standard Handle	Steel Offset, Nickel Plated			
Standard Ball Seals	Delrin + MoS ₂			
Standard Shaft Seals	O-Ring & Backup, Nitrile			
Temperature Range with Standard Seals	-30°C to +100°C (-22°F to +212°F)			





Features

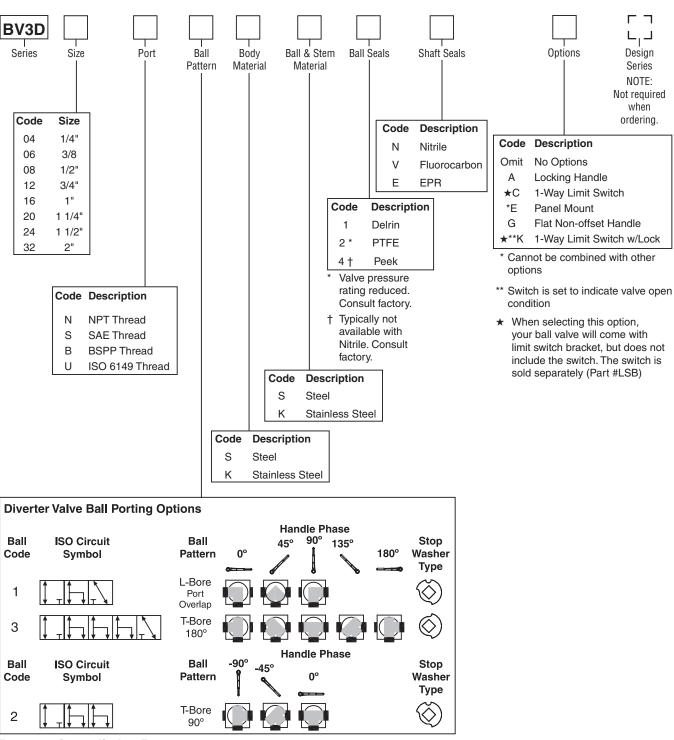
- The standard L-bore ball and T-bore option allows the valve to be utilized in a variety of applications.
- Slight port overlap reduces upstream shock during shifting.
- Utilizing the unique spindle thrust bearing design reduces actuation torque.
- The BV3D can be panel mounted which allows a variety of installation options.
- Delrin seals with molybdenum disulphide (MoS₂) results in lower actuation torque and will increase high duty life cycle expectancy.



WARNING: This product can expose you to chemicals including Lead, Nickel (Metallic), or 1,3-Butadiene which are known to the State of California to cause cancer, and Lead or 1,3-Butadiene which is known to the State of California to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Ball Valves Series BV3D



Pressure is applied to Port 1.

Weights

Code	kg (lbs.)	Code	kg (lbs.)
04	0.6 (1.25)	16	2.7 (6.0)
06	0.7 (1.5)	20	6.2 (13.75)
08	0.9 (2.0)	24	6.8 (15.0)
12	1.9 (4.25)	32	11.1 (24.5)

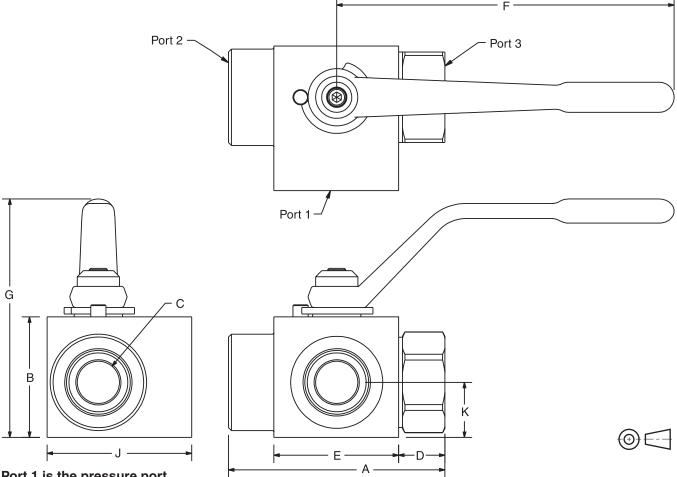
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ISO 6149-1 Port Dimensions (inches)

Size	Thread				
04	M12	x 1.5			
06	M16	x 1.5			
08	M18	x 1.5			
12	M27	x 2			
16	M33	x 2			
20	M42	x 2			
24	M48	x 2			
32	M60	x 2			

Threaded Ports



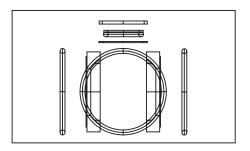
Port 1	is the	pressure	port.
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	Port Thread	Working		Dimensions mm (in)							
Code	Size	Pressure	Α	В	С	D	E	F	G	J	к
BV3D –	NPT, SAE,	, and BSPP									
04	1/4"	207 Bar (3000 PSI)	69.6 (2.74)	35.1 (1.38)	6.4 (0.25)	17.3 (0.68)	35.7 (1.40)	114.3 (4.50)	75.7 (2.98)	52.1 (2.05)	15.5 (0.61)
06	3/8"	207 Bar (3000 PSI)	72.9 (2.87)	38.1 (1.50)	7.9 (0.31)	15.5 (0.61)	42.4 (1.67)	114.3 (4.50)	78.7 (3.10)	53.1 (2.09)	16.3 (0.64)
08	1/2"	207 Bar (3000 PSI)	85.3 (3.36)	41.4 (1.63)	11.2 (0.44)	19.3 (0.76)	47.5 (1.87)	114.3 (4.50)	82.6 (3.25)	59.9 (2.36)	18.5 (0.73)
12	3/4"	207 Bar (3000 PSI)	97.0 (3.82)	57.2 (2.25)	17.5 (0.69)	17.5 (0.69)	61.5 (2.42)	177.8 (7.00)	120.1 (4.73)	74.2 (2.92)	25.4 (1.00)
16	1"	207 Bar (3000 PSI)	114.0 (4.49)	63.5 (2.50)	22.4 (0.88)	24.4 (0.96)	65.8 (2.59)	177.8 (7.00)	125.7 (4.95)	87.4 (3.44)	29.0 (1.14)
20	1 1/4"	207 Bar (3000 PSI)	123.2 (4.85)	88.9 (3.50)	28.7 (1.13)	21.6 (0.85)	80.5 (3.17)	250.4 (9.86)	167.9 (6.61)	120.4 (4.74)	42.9 (1.69)
24	1 1/2"	207 Bar (3000 PSI)	136.4 (5.37)	88.9 (3.50)	35.1 (1.38)	25.1 (0.99)	85.6 (3.37)	250.4 (9.86)	169.9 (6.69)	105.9 (4.17)	38.1 (1.50)
32	2"	207 Bar (3000 PSI)	166.1 (6.54)	114.3 (4.50)	44.5 (1.75)	33.0 (1.30)	100.1 (3.94)	250.4 (9.86)	193.3 (7.61)	159.5 (6.28)	56.1 (2.21)

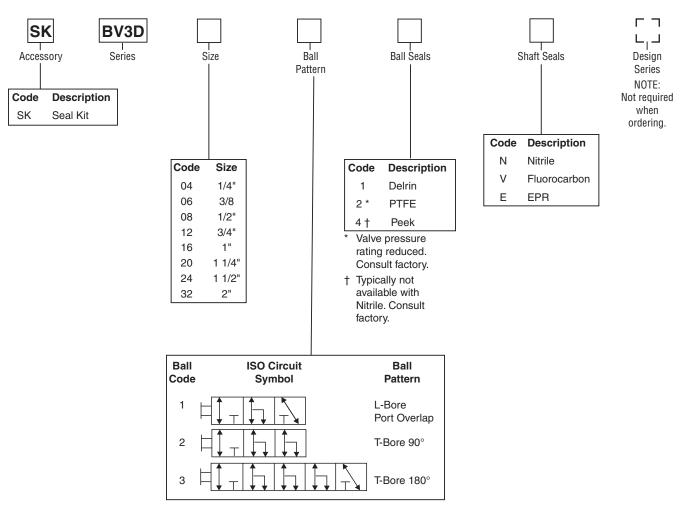


Ball Valve Seal Kits restore a ball valve to factory specifications, providing no erosion or metal-to-metal wear has taken place.

The Seal Kit includes all the o-rings, ball seals and thrust bearings that were originally installed at the factory. A sketch of these parts is provided at the right.

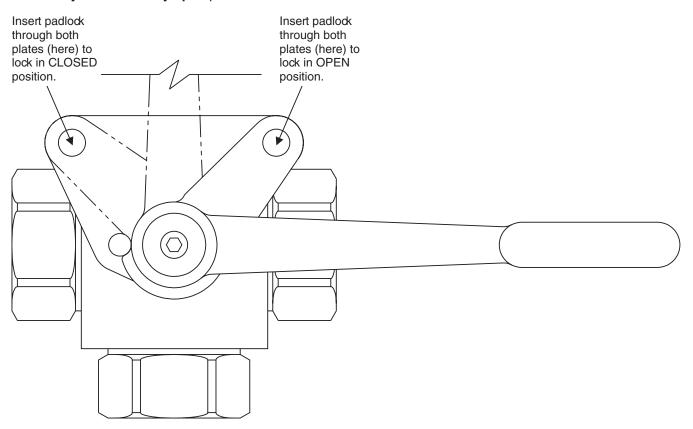


Ordering Information





BVHPLK: Standard Series 'BVHPLK-*' kit replaces the stopwasher with a stationary and moving plate, as illustrated below. As the handle is actuated, the moving plate aligns with one of the two locking positions in the stationary plate, enabling the valve to be locked in either **fully closed** or **fully open** position.



Ordering Information

BV Code	3D Size	Standard Locking (Part Number)
	0.20	()
04	1/4"	BVHPLK-1
06	3/8"	BVHPLK-1
08	1/2"	BVHPLK-1
12	3/4"	BVHPLK-2
16	1"	BVHPLK-2
20	1 1/4"	BVHPLK-3
24	1 1/2"	BVHPLK-3
32	2"	BVHPLK-3

