Technical Information

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.

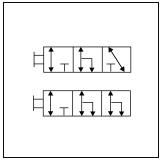
Operation

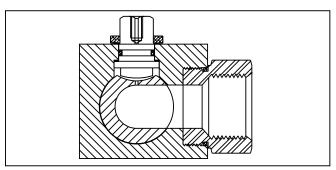
The BV3D Series operates by rotating the handle 90° or 180° depending on the chosen ball pattern. There is a slight port to port overlap.

Specifications

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



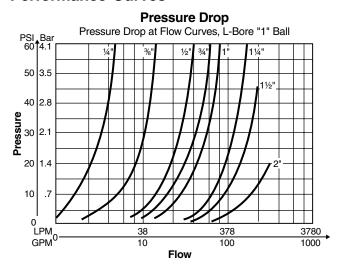


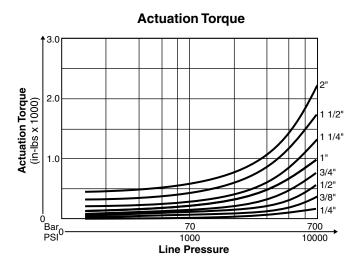


Features

- 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.

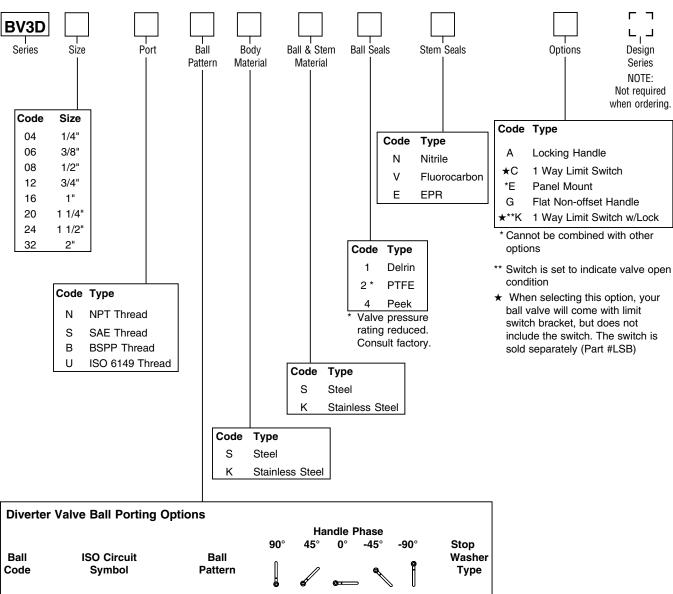
Performance Curves







Ordering Information



Weights

Code	kg (lbs.)	Code	kg (lbs.)
04	0.7 (1.5)	16	3.4 (7.5)
06	0.9 (2.0)	20	4.5 (10.0)
08	1.1 (2.5)	24	6.4 (14.0)
12	2.7 (6.0)	32	9.5 (21.0)

ISO 6149-1 Port Dimensions (inches)

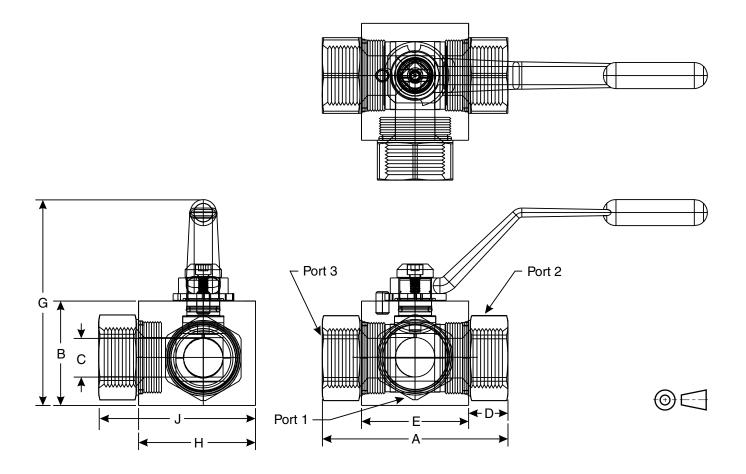
Size	Thread
04	M12 x 1.5
06	M16 x 1.5
08	M18 x 1.5
12	M27 x 2
16	M33 x 2
20	M42 x 2
24	M48 x 2
32	M60 x 2
40	M76 x 2
48	M90 x 2
64	M114 x 2

3300-2.p65, dd



Dimensions

Threaded Ports



	Port Thread	Working	Dimensions mm (in)									
Code	Size	Pressure	Α	В	CL	C _T	D	Е	F	G	Н	J
NPT a	NPT and SAE Thread											
04	1/4"	207 Bar (3000 PSI)	69.6 (2.74)	35.1 (1.38)	6.1 (0.24)	6.1 (0.24)	17.0 (0.67)	35.1 (1.38)	114.3 (4.50)	75.7 (2.98)	35.1 (1.38)	52.1 (2.05)
06	3/8"	207 Bar (3000 PSI)	72.9 (2.87)	38.1 (1.50)	9.7 (0.38)	9.7 (0.38)	15.2 (0.60)	41.9 (1.65)	114.3 (4.50)	79.0 (3.11)	41.9 (1.65)	57.4 (2.26)
08	1/2"	207 Bar (3000 PSI)	85.1 (3.35)	41.4 (1.63)	13.0 (0.51)	13.0 (0.51)	19.1 (0.75)	47.0 (1.85)	114.3 (4.50)	82.0 (3.23)	50.8 (2.00)	69.9 (2.75)
12	3/4"	207 Bar (3000 PSI)	96.5 (3.80)	57.2 (2.25)	20.1 (0.79)	20.1 (0.79)	17.8 (0.70)	61.0 (2.40)	177.8 (7.00)	119.4 (4.70)	54.1 (2.13)	71.6 (2.82)
16	1"	207 Bar (3000 PSI)	114.0 (4.49)	63.5 (2.50)	24.1 (0.95)	24.1 (0.95)	24.4 (0.96)	65.3 (2.57)	177.8 (7.00)	125.7 (4.95)	63.5 (2.50)	87.9 (3.46)
20	1 1/4"	207 Bar (3000 PSI)	122.9 (4.84)	81.3 (3.20)	32.0 (1.26)	32.0 (1.26)	21.6 (0.85)	80.0 (3.15)	254.0 (10.00)	160.3 (6.31)	93.7 (3.69)	115.3 (4.54)
24	1 1/2"	207 Bar (3000 PSI)	135.4 (5.33)	92.5 (3.64)	38.1 (1.50)	38.1 (1.50)	25.1 (0.99)	85.1 (3.35)	254.0 (10.00)	171.7 (6.76)	106.4 (4.19)	131.6 (5.18)
32	2"	207 Bar (3000 PSI)	166.1 (6.54)	109.2 (4.30)	48.0 (1.89)	48.0 (1.89)	33.0 (1.30)	100.1 (3.94)	254.0 (10.00)	188.5 (7.42)	127.0 (5.00)	160.0 (6.30)

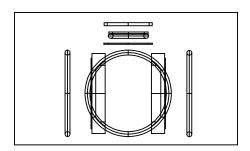


Ordering Information

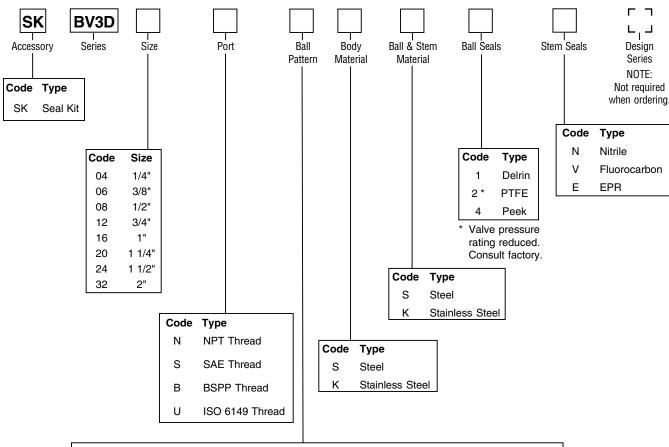
Seal Kit Accessories

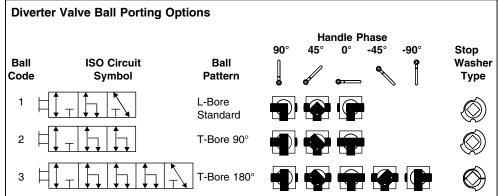
Ball Valve Seal Kits restore a ball valve to factory specifications, providing no erosion or metal-to-metal wear has taken place.

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.



Seal Kit Ordering Information

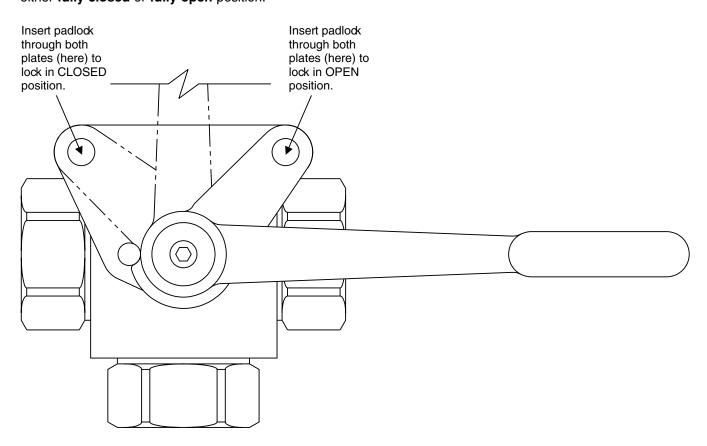






Locking Handle Kit Accessories

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

в۷	3D	Standard Locking
Code	Size	(Part Number)
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

