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.

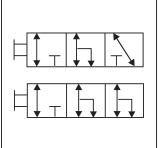
Operation

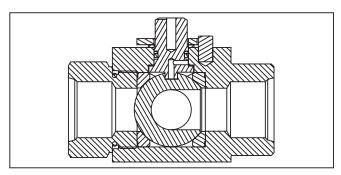
Series BV3D operates by rotating the handle 90° or 180° depending on the chosen ball pattern. There is a slight port to port overlap. Pressure is applied to Port 1.

Specifications

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)



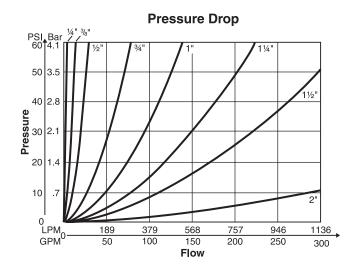


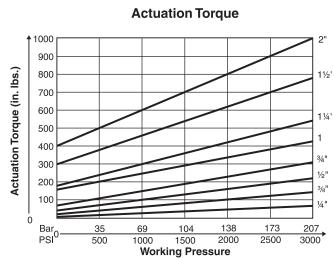


Features

- 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.

Performance Curves



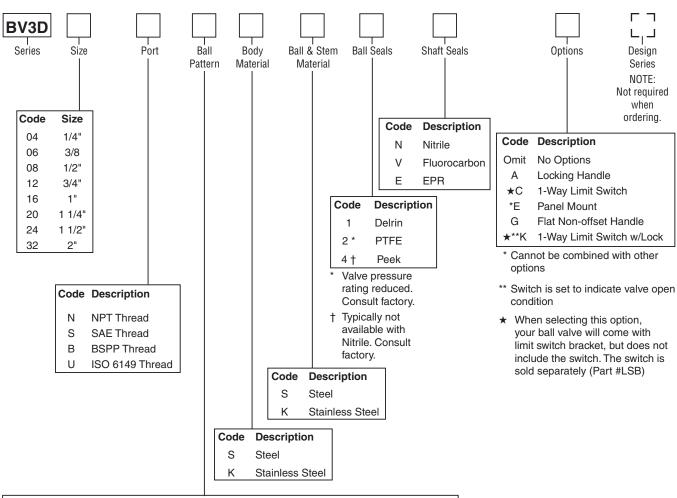


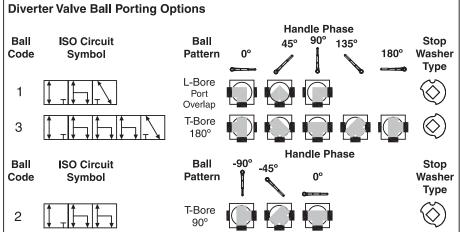
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Ball Valves Series BV3D

Ordering Information





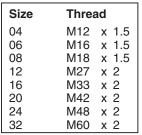
Pressure is applied to Port 1.

ISO 6149-1 Port Dimensions (inches)

Weights

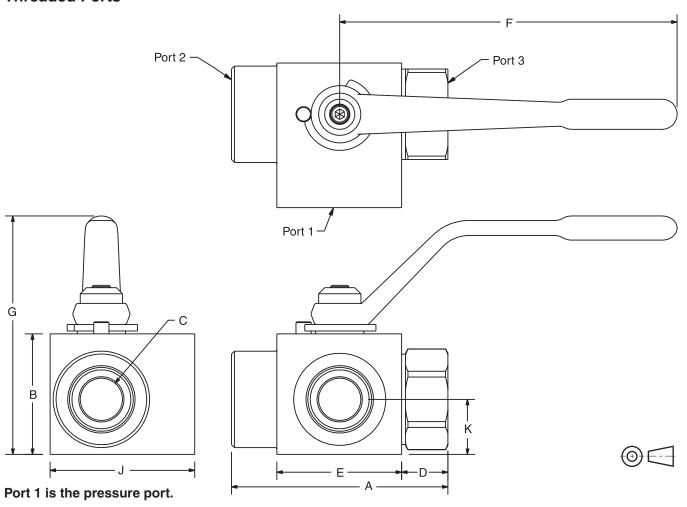
Troigino							
Code	kg (lbs.)	Code	kg (lbs.)				
04	0.6 (1.25)	16	2.7 (6.0)				
06	0.7 (1.5)	20	6.2 (13.75)				
80	0.9 (2.0)	24	6.8 (15.0)				
12	1.9 (4.25)	32	11.1 (24.5)				

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Threaded Ports



	Port Thread	Working	Dimensions mm (in)								
Code	Size	Pressure	Α	В	С	D	E	F	G	J	K
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)

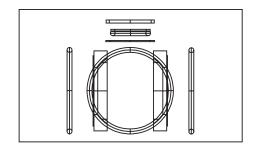
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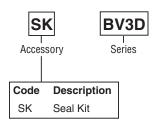
Seal Kit Accessories

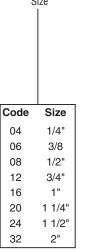
Ball Valve Seal Kits restore a ball valve to factory specifications, providing no erosion or metal-to-metal wear has taken place.

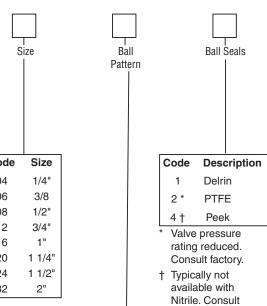
The Seal Kit includes all the o-rings, ball seals and thrust bearings that were originally installed at the factory. A sketch of these parts is provided at the right.



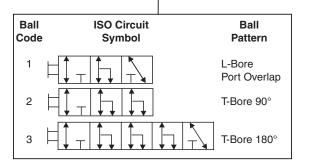
Ordering Information

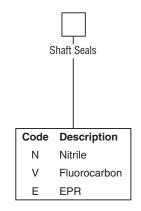






factory.

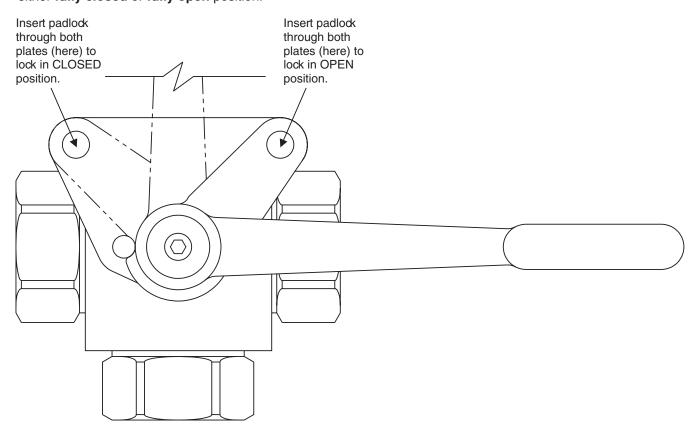




Design Series NOTE: Not required when ordering.

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

BV: Code	3D Size	Standard Locking (Part Number)
04	1/4"	BVHPLK-1
06	3/8"	BVHPLK-1
80	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

