

General Description

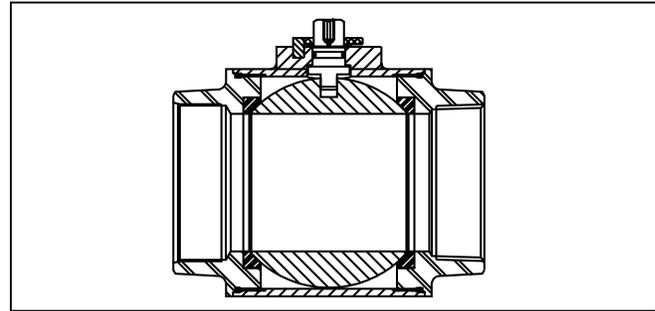
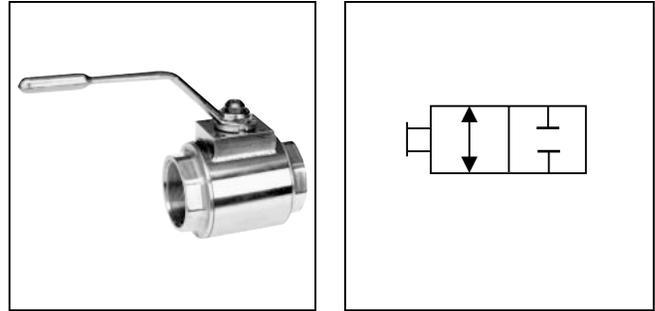
Series BVAL ball valves are designed to meet the needs of suction line and low pressure applications. This series is available from 1/4" to 4" ports NPT, SAE and BSPP, and is designed to assure leak free hydraulic suction and return line durability.

Operation

Parker's 2-way ball valves operate to either off or full flow by rotating the handle 90°. Ball valves are not designed to be a metering or flow control device.

Specifications

Maximum Pressure	28 Bar (400 PSI)
Body Material	Aluminum
Ball Material	Brass, Chrome Plated
Stem Material	Brass, Oversize Bearing Area
Standard Handle	Steel Offset, Nickel Plated
Ball Seals	PTFE standard
Spindle Seals	O-Ring & Backup, Nitrile
Operating Temperature	-30°C to +100°C (-22°F to +212°F)

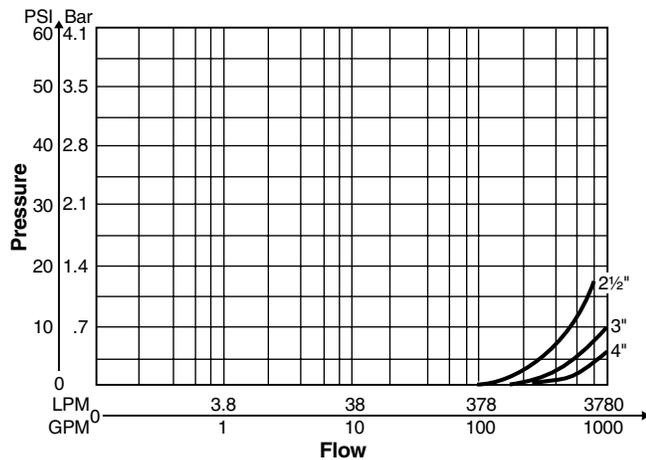


Features

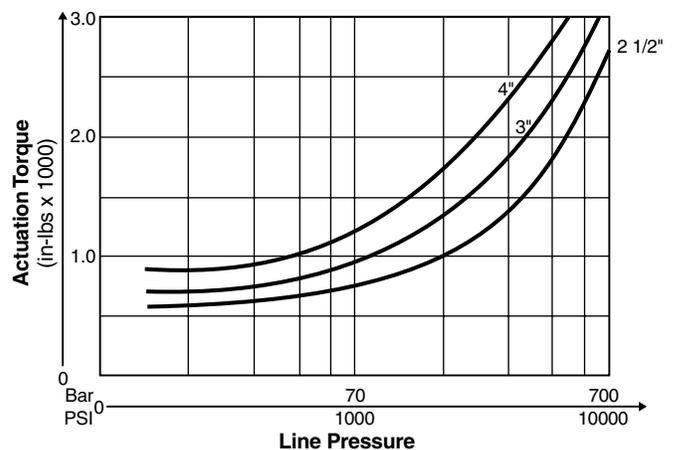
- Unrestricted bore from 1/4" to 4".
- Unrestricted flow and cavitation eliminated.
- Availability of NPT, SAE and BSPP o-ring sealed ports assure leak-free service.
- Choice of optional seal materials allows use with phosphate esters, water glycols and other media.
- Utilizes top grade PTFE ball seats with o-ring seals throughout to assure smooth and leak-free operation.

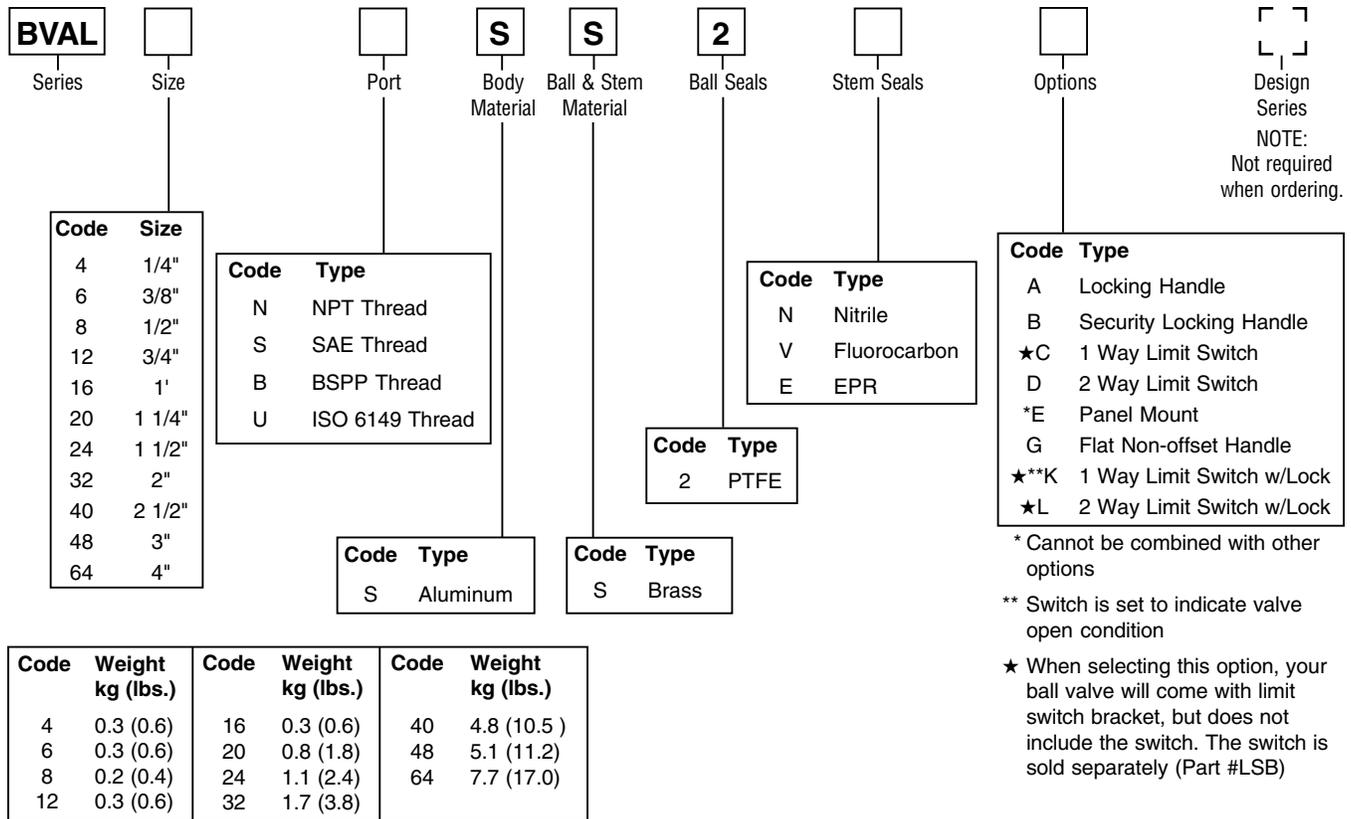
Performance Curves

Pressure Drop



Actuation Torque

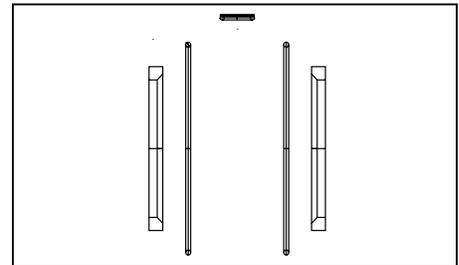




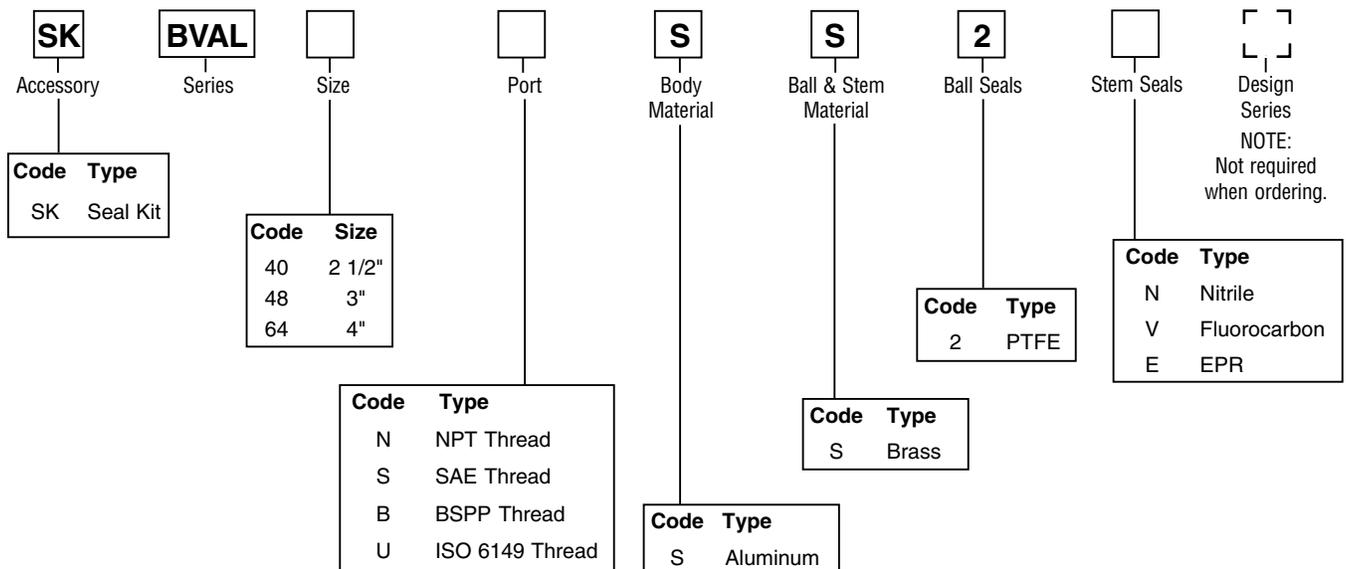
Seal Kit Accessories

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

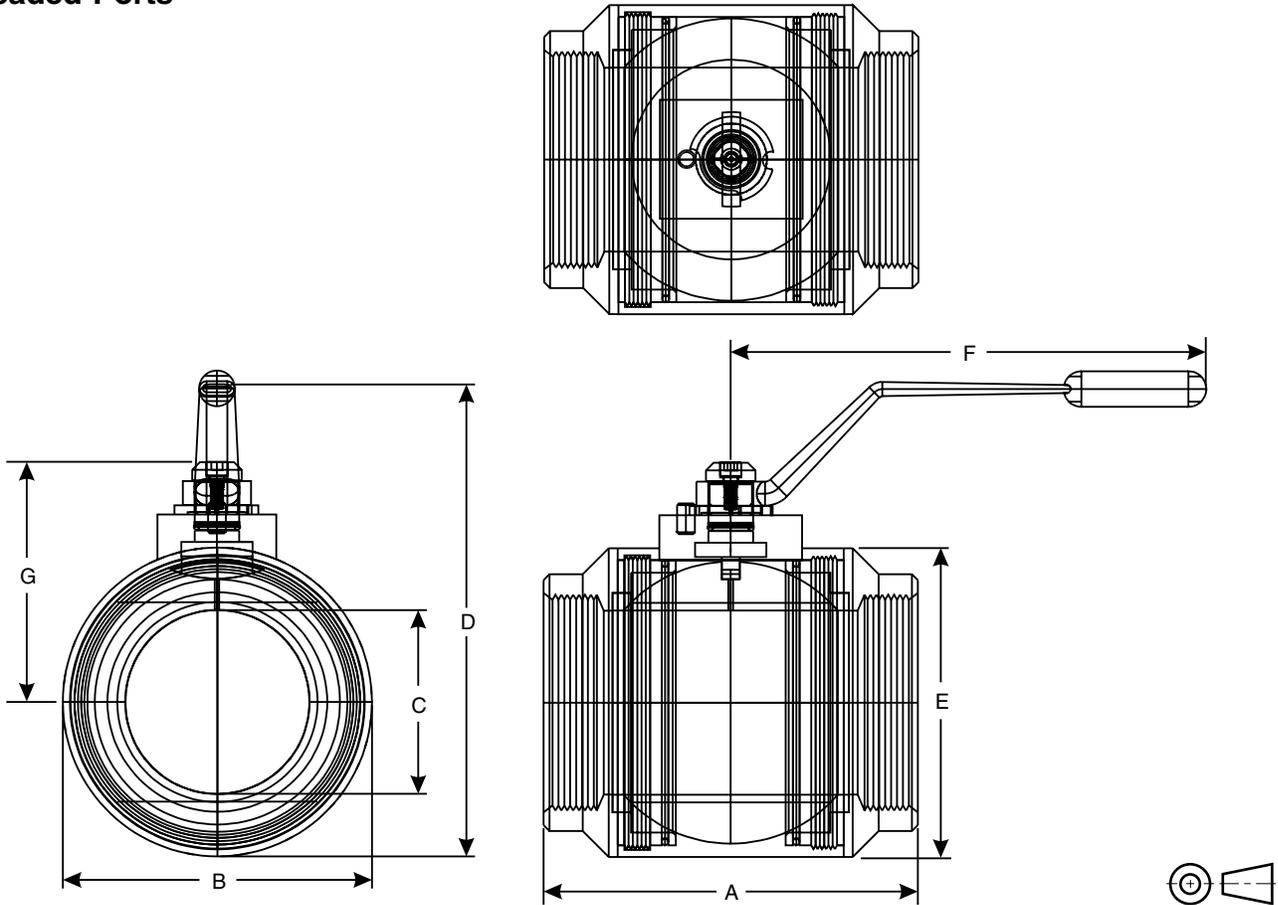
The Seal Kit includes all the o-rings, ball seals and thrust bearings that were originally installed at the factory. A sketch of these parts for most 2-way valves is provided at the right.



Seal Kit Ordering Information

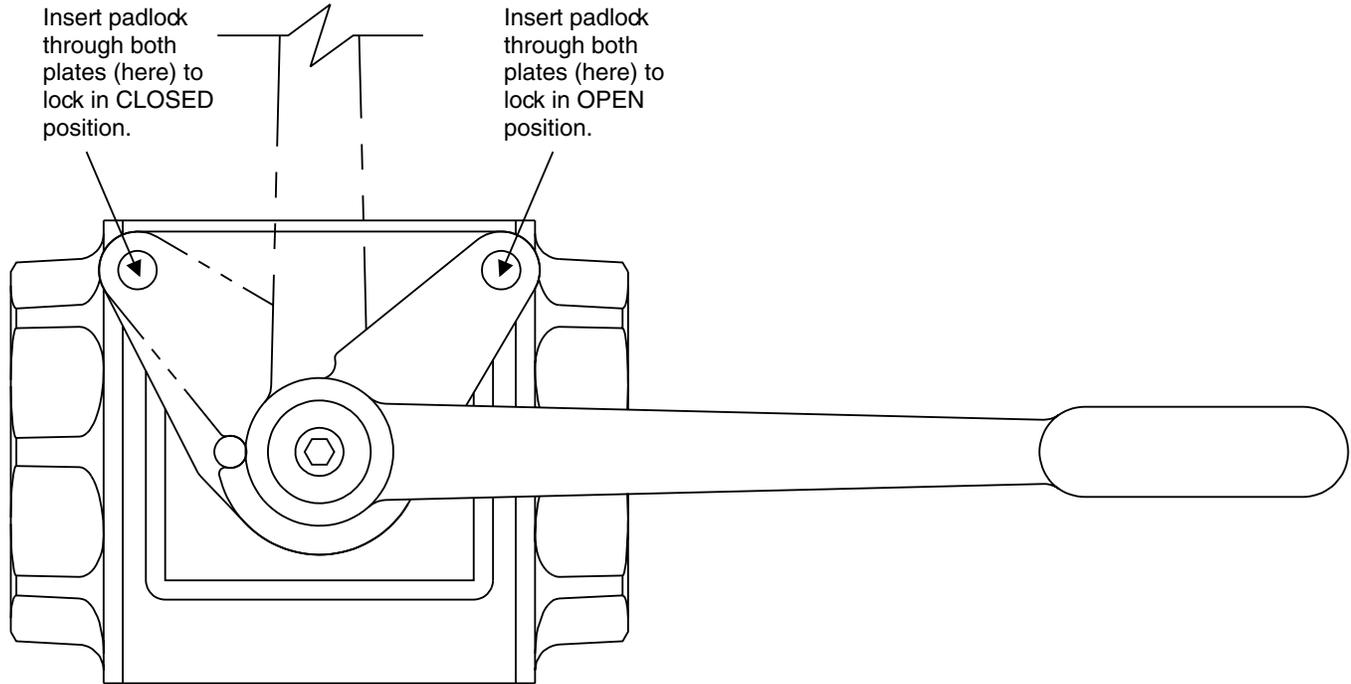


Threaded Ports



Code	Port Thread Size	Working Pressure	Dimensions mm (in)						
			A	B	C	D	E	F	G
NPT and SAE Thread									
4	1/4"	28 Bar (400 PSI)	66.8 (2.63)	38.1 (1.50)	6.4 (0.25)	65.8 (2.59)	38.1 (1.50)	85.6 (3.37)	33.3 (1.31)
6	3/8"	28 Bar (400 PSI)	66.8 (2.63)	38.1 (1.50)	9.7 (0.38)	65.8 (2.59)	38.1 (1.50)	85.6 (3.37)	33.3 (1.31)
8	1/2"	28 Bar (400 PSI)	66.8 (2.63)	38.1 (1.50)	12.7 (0.50)	65.8 (2.59)	38.1 (1.50)	85.6 (3.37)	33.3 (1.31)
12	3/4"	28 Bar (400 PSI)	83.3 (3.28)	44.5 (1.75)	19.1 (0.75)	95.8 (3.77)	44.5 (1.75)	130.0 (5.12)	36.3 (1.43)
16	1"	28 Bar (400 PSI)	88.4 (3.48)	50.8 (2.00)	25.4 (1.00)	102.1 (4.02)	50.8 (2.00)	130.0 (5.12)	39.6 (1.56)
20	1 1/4"	28 Bar (400 PSI)	99.1 (3.90)	69.9 (2.75)	31.8 (1.25)	129.8 (5.11)	66.3 (2.61)	173.0 (6.81)	53.8 (2.12)
24	1 1/2"	28 Bar (400 PSI)	109.7 (4.32)	82.6 (3.25)	38.1 (1.50)	142.2 (5.60)	78.7 (3.10)	173.0 (6.81)	59.9 (2.36)
32	2"	28 Bar (400 PSI)	124.5 (4.90)	101.6 (4.00)	50.8 (2.00)	160.8 (6.33)	97.3 (3.83)	173.0 (6.81)	67.3 (2.65)
40	2 1/2"	28 Bar (400 PSI)	152.4 (6.00)	127.0 (5.00)	63.5 (2.50)	200.4 (7.89)	135.9 (5.35)	222.3 (8.75)	92.2 (3.63)
48	3"	28 Bar (400 PSI)	185.7 (7.31)	152.4 (6.00)	76.2 (3.00)	224.8 (8.85)	160.3 (6.31)	222.3 (8.75)	103.9 (4.09)
64	4"	28 Bar (400 PSI)	225.8 (8.89)	177.8 (7.00)	101.6 (4.00)	251.5 (9.90)	186.9 (7.36)	222.3 (8.75)	117.6 (4.63)

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

BVAL		Standard Locking
Code	Size	(Part Number)
4	1/4"	BVHPLK-1
6	3/8"	BVHPLK-1
8	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
40	2 1/2"	BVHPLK-4
48	3"	BVHPLK-4
64	4"	BVHPLK-4