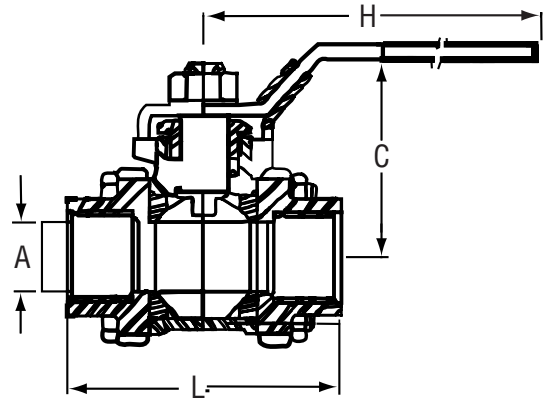




Specifications - Installation and Operating Instructions



The Series 2BVS BALL VALVE from W.E. Anderson, a division of Dwyer Instruments, is an economical, stainless steel valve for use in chemical, pharmaceutical, food and beverage, and many other applications. It may be actuated manually, pneumatically or electrically.

PHYSICAL DATA

Size: 1/4" to 3"

Connections: NPTF.

Material: Body - CF8M; Ball & Stem - 316SS; Seats & Seals - 15% glass Reinforced Teflon®.

Max. Pressure(s): 1000 psi WOG, 150 psi SWP

Temperature: -20° to 400°F.

INSTALLATION

Before installing, inspect the valve and pipe ends to make sure they are free from any debris that may prevent a proper and secure connection. Clean pipe ends with compressed air and wipe with a clean cloth. Be sure the pipe ends are threaded correctly to prevent damage to valve internals. Apply a PTFE-based thread sealant to the pipe ends. To prevent distortion, use a smooth jawed wrench on the hex ends of the valve only, not the body. Use pipe wrenches on pipe and fittings only.

OPERATION

The ball valve is bi-directional - permitting flow in either direction - and can be installed in any position. The valve operates with a quarter-turn (90°) rotation. To open, rotate the valves handle in a counter-clockwise direction; to close, rotate this handle clockwise.

Size	A	L	C	H	Cv	Torque (in-lbs)
1/4"	.46	2.56	1.97	3.94	6	36
3/8"	.50	2.56	1.97	3.94	15	36
1/2"	.50	2.79	2.05	4.53	15	43
3/4"	.78	3.21	2.28	5.20	25	65
1"	1.00	3.54	2.44	5.20	35	101
1-1/4"	1.25	4.43	3.50	5.91	46	158
1-1/2"	1.50	4.98	3.86	6.89	80	187
2"	2.00	5.79	4.09	6.89	110	230
2-1/2"	2.56	7.32	5.55	10.2	310	430
3"	3.15	8.39	6.10	10.2	360	2200

MAINTENANCE

This valve is designed for applications requiring ease of cleaning and maintenance.

To disassemble:

First, make sure the valve is isolated from both process media and pressure. Rotate the valve several times to relieve any pressure contained in the ball cavity. Then loosen the four bolts and remove the top bolt opposite the location lug. The center section of the valve should now "swing out", exposing the valve internals, while the endcaps remain connected to the pipe.

To re-assemble:

After maintenance, return the center section to the valve and re-install the removed top bolt. Then tighten all bolts in a "star" pattern to ensure even compression. Rotate the valve handle several times to check for free travel.