

V526B

2-Way Direct Acting Balanced Poppet Solenoid Valve



Valcor Engineering Corporation



DESCRIPTION

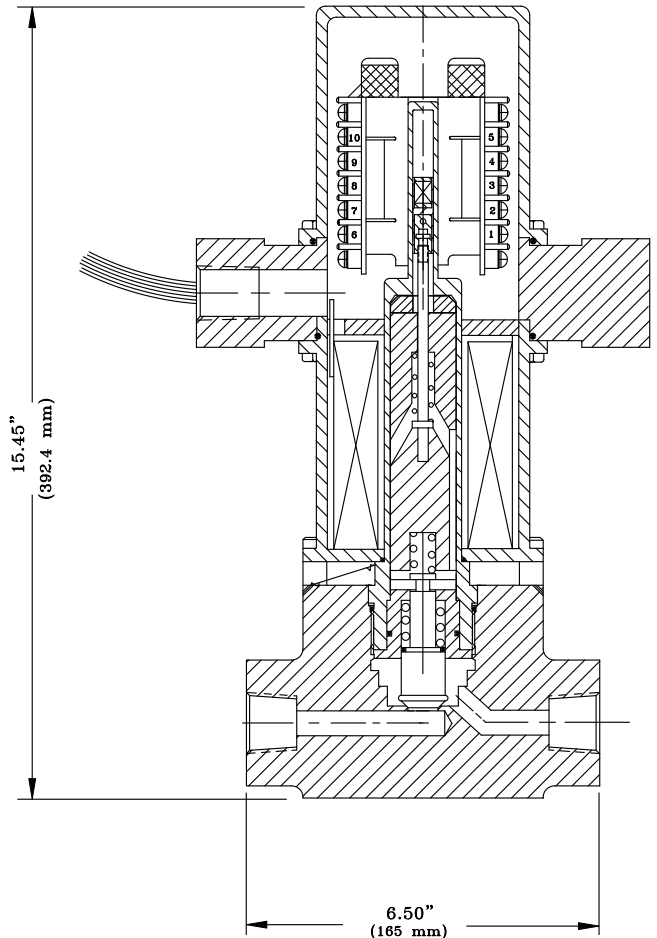
The V526B is designed for liquid or gas applications in the nuclear industry. Rugged design, simplicity of operation, and using a minimum number of moving parts contributes to a highly reliable valve. A direct acting balanced poppet permits bi-directional flow and tight shut-off in both flow directions. It also makes higher operating pressures and flows possible with minimal power consumption. Isolation standoffs prevent excessive heat transfer from the process media to the solenoid operator. Its compact, lightweight design provides excellent resistance to seismic vibration and shock. A completely enclosed and encapsulated coil insures continuous operation during a LOCA event.

APPLICATION

Typical applications include: feed water control systems, dump lines, make-up water, miscellaneous process systems, N₂ systems, and monitoring/sampling systems.

FEATURES

- High cycle life - over 100,000 operations in most applications
- Resistant to contamination and sludge buildup
- Available in Fail Safe Closed, Fail Safe Open, or Fail in Last Position configuration
- Elastomer seats and dynamic seal
- Optional position indication switches for remote status indication
- Easy maintenance without disturbing the pressure boundary seals
- 2-Piece NEMA 4 stainless steel coil housing
- Stress and seismic analysis available
- Valve Ratings: ANSI class 150 to 2500
- Qualified life: up to 60 years + LOCA



Typical Dimensions of a 1" Valve (with Position Switches)

Custom designs are our specialty. Contact us today to see how we can help on your next project.

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www.valcor.com

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Specifications

Valve	ASME B&PV, Section III Class 1, 2, & 3, B16.34, B31.1/3
Solenoid Operator	Class H materials or better. 120, 220, 240, 380 VAC or 24, 48, 125, 250 VDC. Other voltages available.
Solenoid Housing	Totally enclosed. Meets minimum of NEMA 4 or better. Qualified to IEEE 323.
Line Connection	Standard: socket weld. Optional: butt weld, NPT or tube extensions
Body Material	Standard: stainless steel Optional: carbon steel
Qualification	IEEE 323 - 1974, 1983, and later editions IEEE 344 - 1975, 1987, and later editions IEEE 382 - 1980, 1996, and later editions ASME QME-1 - 2007 and later editions
Radiation Resistance	Standard at 2×10^{-8} rads.

VALVE Type	MAX. Fluid Temp.	Cv*	Operating Differential Pressure (Δ P) PSI								
			1	2	3	4	5	10	15	25	50
B2BS	300°F	Δ P PSI	3000	3000	3000	3000	3000				
B3BS	300°F							3000			
B4BS	300°F								2500	2500	
B5CS	300°F										1500

*The pressures listed above are typical for each valve type. Actual Cv values may vary depending on individual applications.

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