



DESCRIPTION

This design uses a balanced disc (poppet) which permits bi-directional flow and tight sealing in both flow directions. Extreme reliability is inherent due to rugged design, simplicity of operation, and a minimum number of moving parts. Isolation standoffs prevent excessive heat transfer to the solenoid operator. Internal parts are contoured to retard buildup of contamination and sludge. 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

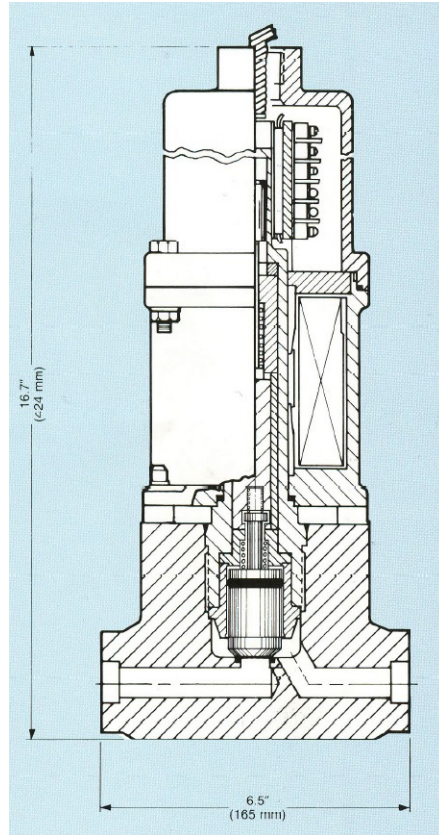
This valve is engineered for liquid or gas applications in the nuclear industry. Typical applications are feed water control systems, dump lines, make-up water, miscellaneous process systems, N₂ systems, and monitoring/sampling systems.

FEATURES

- Valve ratings: ANSI class 150 to 2500.
- High Cycle life. Over 100,000 operations in most applications.
- Resistant to contamination and sludge buildup.
- ASME Section III, Classes 1, 2 and 3.
- Available Fail Safe Closed, Fail Safe Open or Fail in Last Position (Latching).
- Elastomer seats.
- Elastomer dynamic seal.
- Position indication switches available for remote status indication.
- Solenoid and switch assemblies readily accessible for removal or maintenance without disturbing the pressure boundary.
- Stress and seismic analysis available.
- Radiation resistance: Standard, 2×10^8 rads.
- Qualified life: Up to 60 years + LOCA.
- Qualified to IEEE 323, 344, 382
- 2-Piece SS Housing

SOLENOID VALVE SERIES V526B

Dimensions



**TYPICAL DIMENSIONS OF A 1" VALVE
(With Position Switches)**

Specifications

Valve	ASME B&PV, Section III Class 1, 2, & 3, B16.34, B31.1
Solenoid Operator	Class H materials or better. 120, 220, 240, 380 VAC or 24, 48, 125, 250 VDC.
Electronic Components	Totally enclosed. Meets minimum of NEMA 4 or better. Qualified to IEEE 323.
Line Connection	Standard: Socket weld Optional: Butt Weld 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

VALVE Type	MAX. Fluid Temp.	Cv*	Operating Differential Pressure (ΔP) PSI								
			1	2	3	4	5	10	15	25	50
B2BS	300°F	ΔP 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.