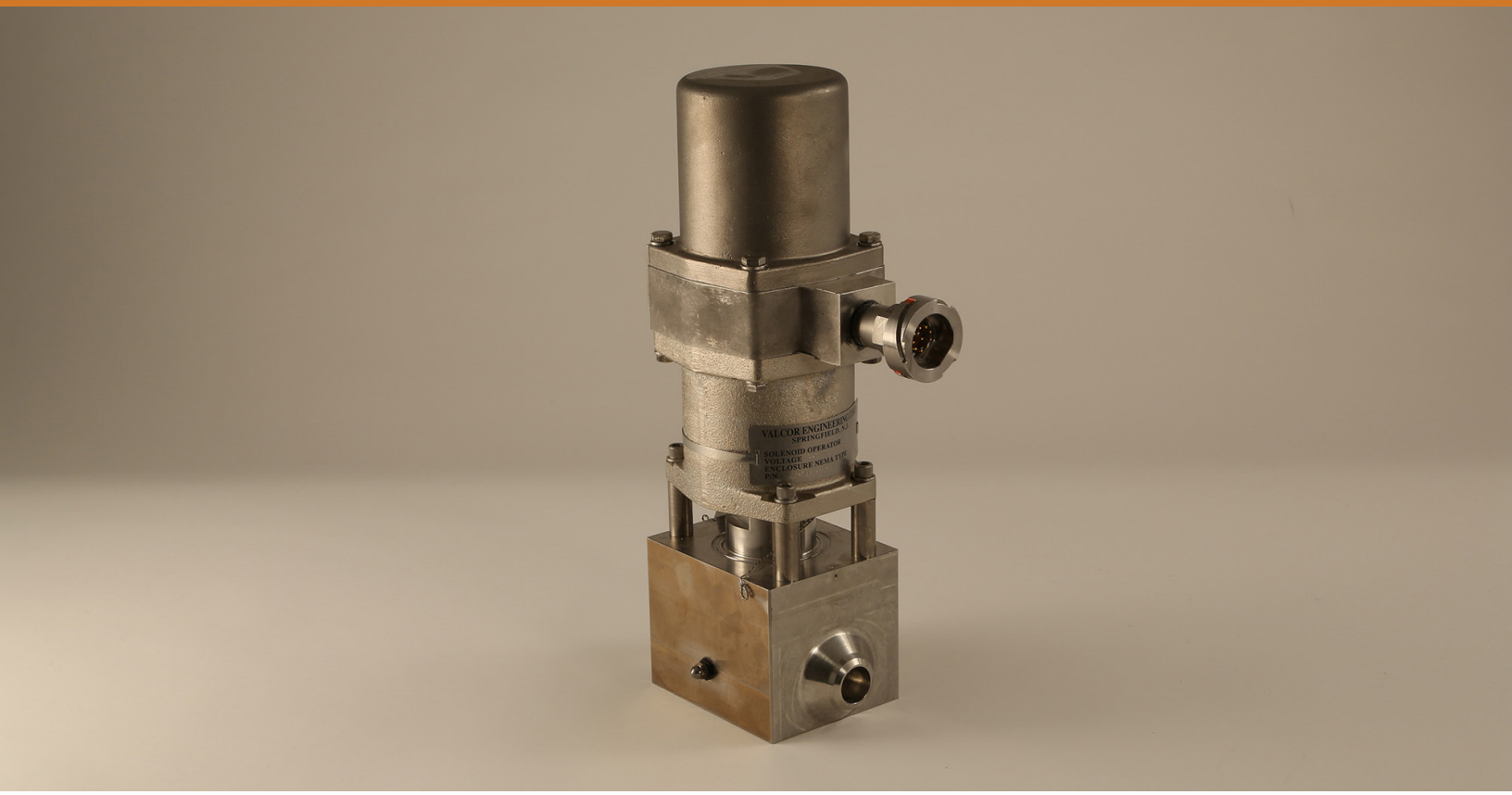
V526P

2-Way Direct Lift Pilot Assist
Fail Open, Fail Closed

Valcor Nuclear - Process Solenoid Valve



DESCRIPTION

Absolute zero leakage to the environment. Valcor's "through the wall" magnetic principle of operation eliminates all potential leak points such as packings, bellows and diaphragms. 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. This design uses a pilot poppet to create a pressure unbalance which assists the operation of the main poppet, thereby combining the best features of the direct lift and pilot designs.

APPLICATION

This valve is engineered for all liquid or gas applications in the nuclear industry. Typical applications are feed water control systems, dump lines, make-up water, pilot control for large control valves, head vent 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.
- Stellite or elastomer seats.
- 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. Qualified to IEEE 323, 344, 382.
- Radiation resistance: Standard, 2x10^8 rads.
- Qualified Life: Up to 60 years + LOCA.

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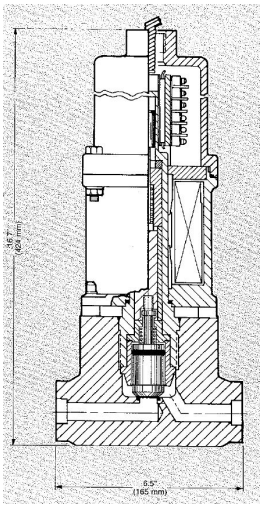
SOLENOID VALVE SERIES V526P

Dimensions



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

			Operating Differential Pressure (ΔP) PSI									
VALVE Type	**MAX. Fluid Temp.**	**Cv***	**1**	**2**	**3**	**4**	**5**	**10**	**15**	**30**	**70**	**180**
P1AH	650°F	ΔP PSI	1200	700	500	375						
P2BH	650°F		4000	3000	2000	1600	1000					
P2SH	650°F				5000	4500	3750					
P3BH	650°F							790				
P3SH	650°F							2500				
P4BH	650°F								950	400		
P4SH	650°F								2500	2500		
P5CH	650°F										1250	
P5SH	650°F										2500	
P6CH	650°F											1250
P6SH	650°F											2500
P2SS	300°F	ΔP PSI			450	400	300					
P3BS	300°F							125				
P3SS	300°F							375				
P4BS	300°F								140	55		
P4SS	300°F								350	265		
P5CS	300°F										185	
P5SS	300°F										350	
P6CS	300°F											185
P6SS	300°F											350

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