

V57300

3-Way Direct Acting Solenoid Valve



Valcor Engineering Corporation



DESCRIPTION

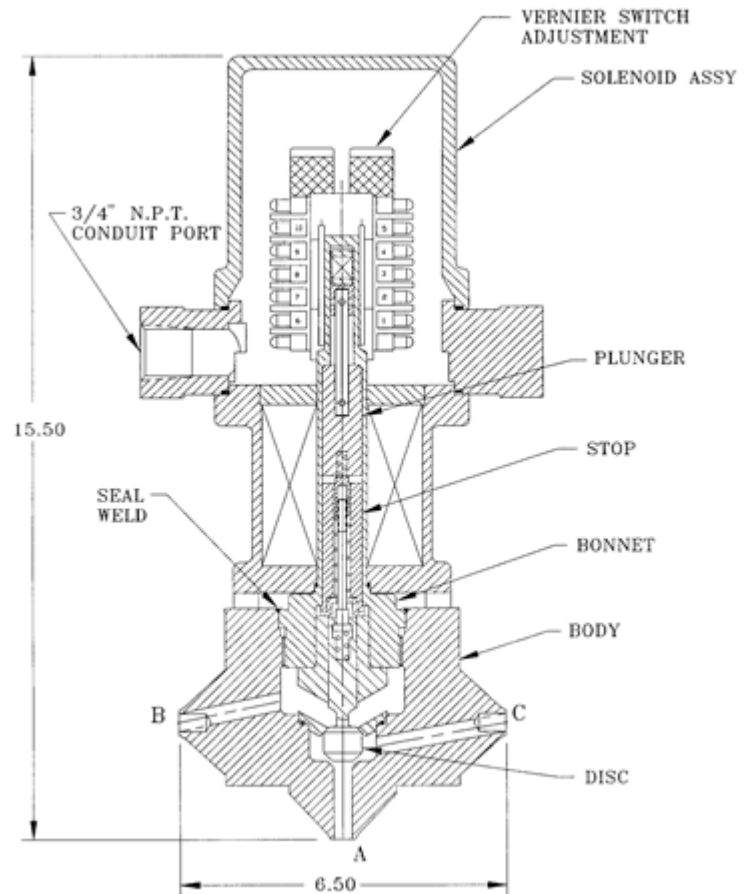
The V57300 are 3-way direct acting solenoid valves specifically designed for liquid or gas applications in the nuclear energy industry. Utilizing Valcor's 'Through The Wall' magnetic principle of operation eliminates the potential for external leakage. Isolation standoffs prevent excessive heat transfer from the process media to the solenoid operator. The internal parts are contoured to retard buildup of contamination and sludge. 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 EDG starting/stopping service, chemical injection, header selection, and pressure vessel venting. The V57300 will work as a diverter, selector, normally-open or normally closed configuration.

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
- Stellite or elastomer seat available
- 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



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

Valcor Engineering Corporation
2 Lawrence Road | Springfield, NJ 07081
(973) 467-8400 | nuclear@valcor.com
www.valcor.com

V57300

3-Way Direct Acting Solenoid Valve



Valcor Engineering Corporation

Operating Pressure & Flow Ratings

| Media | Operating Pressure (PSIG) | Line Size | Cv |
|---------------|---------------------------|------------|-----------|
| Liquid or Gas | 0-2500 | 3/8" to 3" | 0.1 to 30 |

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. |
| Solenoid Housing | Totally enclosed. Meets minimum of NEMA 4 or better. Qualified to IEEE 323, 344. |
| Line Connection | Standard: socket weld. Optional: butt weld, NPT or tube extensions, flanged |
| Body Material | Standard: stainless steel Optional: carbon steel or alloy |
| Qualification | IEEE 323 - 1974, 1983, and later editions IEEE 344 - 1975, 1987, and later editions IEEE 382 - 1980, 1996, and later editions |
| Radiation Resistance | Standard at 2×10^{-8} rads. |

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

Valcor Engineering Corporation
2 Lawrence Road | Springfield, NJ 07081
(973) 467-8400 | nuclear@valcor.com
www.valcor.com