

V70900-99

3-Way High Flow Air Pilot Solenoid Valve



Valcor Engineering Corporation



DESCRIPTION

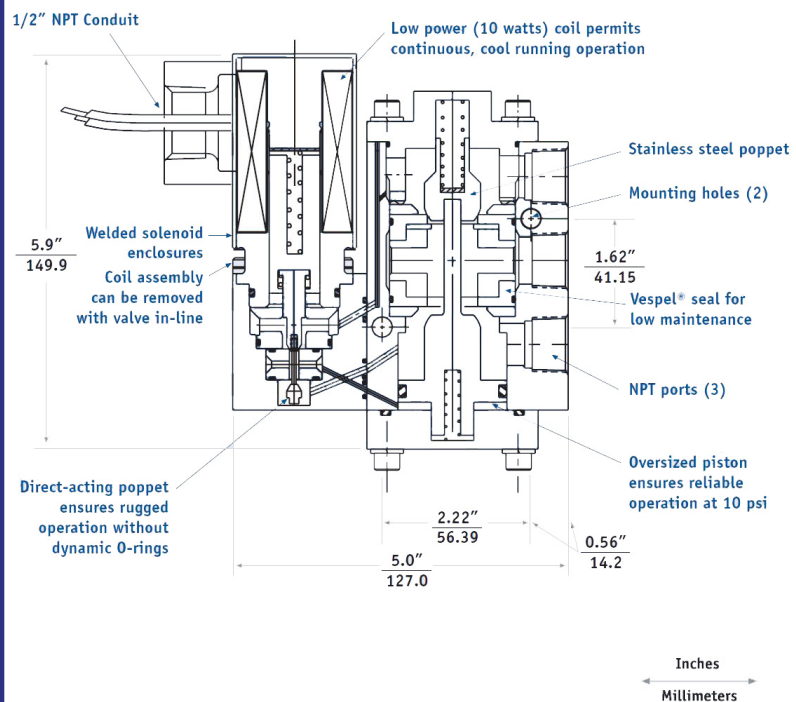
V704900-99 are pilot operated high flow 3-way valves specifically designed for pneumatic service in nuclear power stations. Their highly efficient low wattage coils enable continuous duty service without generating excess heat that shortens the life of conventional solenoid valves. They are highly favored over conventional solenoid valves for safety-related applications in BWR, PWR and CANDU power stations. Unique design enables their use as normally-open, normally-closed, diverter or selector valves. All-welded stainless steel solenoid housing allows for operation in the harshest chemical environments.

APPLICATION

V704900-99 valves are designed to act as air pilots controlling single-acting pneumatic cylinders and actuators under the extremely harsh environmental conditions found in nuclear power stations. They are especially suitable for Control Rod Drive (CRD) applications in BWR plants using single-coil solenoid valves, and are also used on compressors and turbines.

FEATURES

- Compact size and low weight
- Forged brass body standard; aluminum or stainless steel bar stock bodies available
- Requires less than 10 watts of power
- Easy coil replacement without disturbing process line connections
- NEMA 4 and NEMA 7 seal welded stainless steel coil housing
- Stainless steel poppets sealing on polyimide seats
- Elastomer seals
- Mountable in any orientation
- Two panel mounting holes in body
- Optional mounting bracket available



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

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Operating Pressure & Flow Ratings

Operating Modes Normally Open/Closed	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC	Cv
NO and NC	10-150	150°F	48	1.2 to 45

Specifications

Solenoid Operator	1/2" conduit hub NEMA 4 and NEMA 7 compliant Class H magnet wire 10 watts @ 48 VDC, 120 VAC or 125 VDC and 72°F continuous duty 36" pigtails standard
Minimal Operating Pressure	10 PSIG
Line Connection	NPT ports
Body Material	Forged brass standard. Stainless steel and aluminum available.

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