

# V70900-87

1/2 Inch 3-Way Direct Acting Solenoid Valve



Valcor Engineering Corporation



## DESCRIPTION

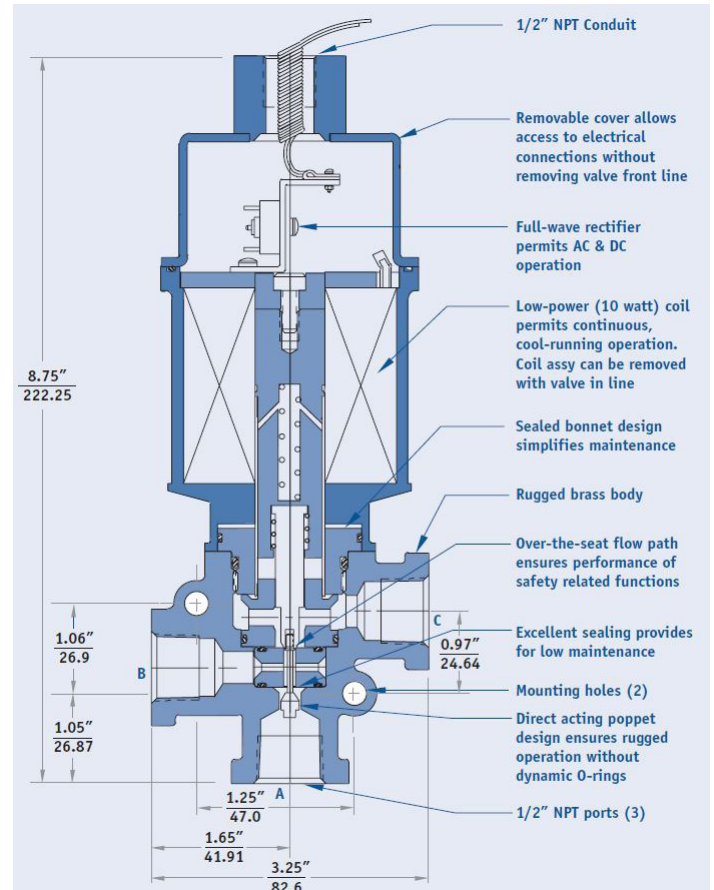
V70900-87 are direct acting 3-way 2 position solenoid valves designed for pneumatic service in nuclear power stations. They are primarily used as an air pilot control valve for main steam isolation valve (MSIV) applications in boiling water reactor plants. Their highly efficient low wattage coils enable continuous duty service without generating excess heat that shortens the life of conventional solenoid valves. They are highly favored over conventional solenoid valves in BWR, PWR and CANDU power stations. Their unique dual poppet design enables their use as normally-open, normally-closed, diverter or selector valves. They require no system pressure to operate. The stainless steel solenoid housing allows for operation in the harshest chemical environments.

## APPLICATION

V70900-87 typically used as air pilots controlling single-acting pneumatic cylinders and actuators under the extremely harsh environmental conditions in nuclear power stations.

## FEATURES

- Brass body standard
- Requires less than 10 watts of power
- 2-Piece NEMA 4 stainless steel coil housing
- Stainless steel poppets seal on polyimide seats
- No dynamic elastomer seals
- Stress and seismic analysis available
- Easy maintenance without disturbing the pressure boundary seals
- Mountable in any orientation
- Two panel mounting holes in body



Inches  
Millimeters

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www.valcor.com

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## Operating Pressure & Flow Ratings

Operating Modes Normally Open/Closed	Cv	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC
NO and NC	0.2	0-150	150°F	125

## Specifications

Solenoid Operator	1/2" conduit hub NEMA 4 compliant Class H magnet wire 10 watts @ 120 VDC or 125 VDC and 72°F continuous duty 36" pigtails standard
Line Connection	1/2" NPT ports
Body Material	Brass

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