

Product Datasheet: Solenoid Valve Series



The Solenoid valve series is designed specifically for medical and food/beverage applications. The wetted materials are bio-compatible with a wide range of fluids and the small dead volume is easily cleaned-in-place. A wide array of tube fitting options and simple mounting flanges make the valves easy to install. The plunger is isolated from the fluid with a PTFE bellows and is available in the normally closed (NC) configuration.

Fast switching times and low holding current mean low heat transfer to the fluids. The environmental protection is IP 65, ensuring robust performance in harsh locations.

- 2/2-way valves
- Tube fittings customized for customer's application
- Low power consumption
- Low heat transfer to process fluid
- Wetted materials compatible with aggressive fluids
- Low dead volume
- Simple mounting
- Easy cleaning/rinsing
- Fast switching time
- Compact
- Extremely quiet
- All valves 100% inspected and tested
- Permanently marked for easy traceability

Specifications

Performance:

Valve Type: Mono-stable 2/2-way (normally closed)
 Switching time: typically <30 msec
 Flow direction: Reversible
 Holding Pressure: 3 bar max. from either direction
 Max. Case Pressure: 6 bar at T = 24°C
 Duty cycle: Continuous
 Life expectancy: > 50M cycles
 Kv = 2.5 to 3.5 l/min.
 Viscosity: <20 cps

Electrical:

Voltage: 24vdc ± 10% to open, 18-24vdc to hold open
 Resistance: 60Ω
 Solenoid Insulation Class: H
 Connections: flat tabs (6.3 X 0.8mm)

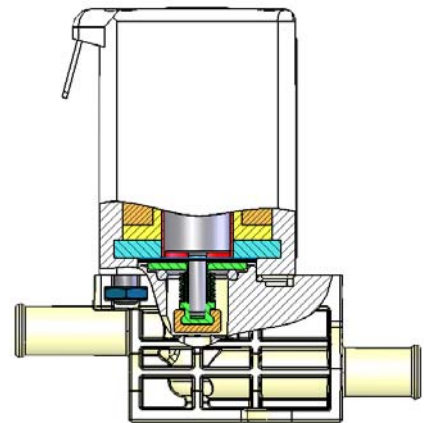
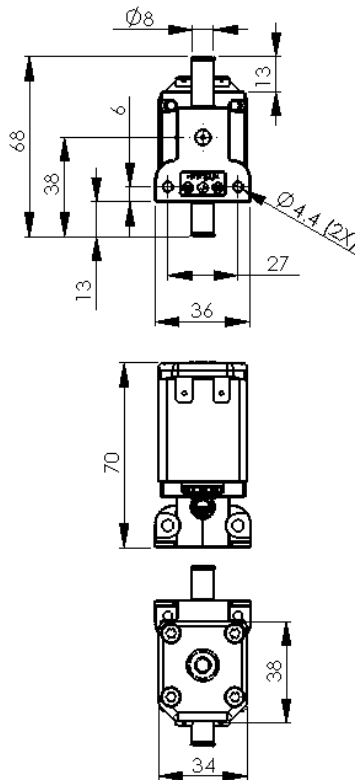
Temperature:

Operating Temperature Range: -10 to +95°C
 Ambient Temperature Range: -10 to +80°C
 Storage Temperature Range: -30 to +110°C

Construction:

Wetted materials: PSU, PEEK, PPS, or PEI; EPDM, FKM, or Silicone (o-rings); PTFE
 Mass: 215 grams

Operating Principle & Dimensional Information



The plunger is contained within a PTFE bellows, which in turn is connected to an elastomer cover, creating a normally closed seal against the valve port. The inert materials and small dead volume make it very easy to clean. The low travel distance means quick switching and low noise.

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