MAGNETIC LATCH SOLENOID PILOT VALVE

Model S-392-T-3W

The BERMAD Model S-392T-3W is a compact 3-Way Latching Solenoid pilot valve comprised of two main components: a solenoid and a 3-way hydraulic pilot valve. The BERMAD latching solenoid can control valves independently or in combination with other control circuit accessories. Model S-392T-3W consumes power only when switching positions, using a very short electric pulse. This prolongs life of batteries and enables solar recharging. The hydraulic base features a three position TRIO manual override and includes a bracket for attaching to the valve or to a solenoid manifold.

Features & Benefits

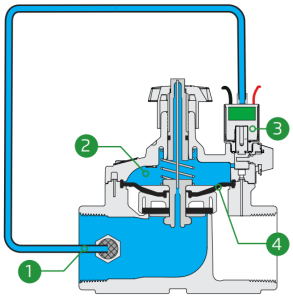
- Advanced Construction Materials, Unique Plastic Casing
  - Proven pressure, voltage and weather resistance
  - Highly durable in corrosive environments
  - Protection Class: IP68 – max 3m depth, 7 days submersion
- Superb Internal Design and Finish
  - Reliable operation under dirt loaded water
- Short Electrical Pulse Latch Activation
  - Extremely low power consumption
  - Low voltage battery operation
  - Saves wires and infrastructures costs
  - No coil heating
  - Suites most Battery Operated Controllers on the market
  - Applicable in solar activated systems
- Hydraulic Base with Installation Bracket
  - High flow capacity quickens valve response
  - No dirt sedimentation inside solenoid actuator
  - 3 position TRIO manual override (Open, Auto and Close)
  - Simple installation to valve or manifold
- Reliable and Durable Product that Bears the Stamp of BERMAD Quality

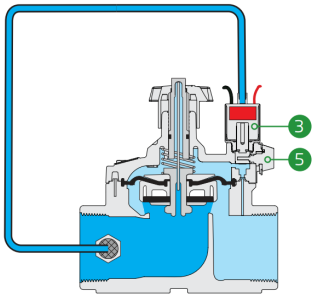
Typical Applications

- Systems distanced from control center
- Unavailable Power Supply Locations
- Solenoid controlled on/off valves
- Solenoid controlled pressure and flow control valves
- Multiple valve systems
- Solenoid manifolds in irrigation heads
- Distribution Centers
- Energy Saving Irrigation Systems

Operation:

Closed Position: Energizing the Solenoid to open, introduces line pressure to the Control chamber. This creates superior closing force that moves the diaphragm assembly to a closed position.
Open Position: The De-Energized Normally Closed solenoid vents the control chamber, allowing the upstream pressure applied on the diaphragm to open the valve.





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Technical Data

Specifications:

Pressure Rating: 0-10 bar
Max. Temperature: Water 70°C, Ambient 60°C
Solenoid to Base Connection: ¾"; 20 UNEF Male Threaded
Leads: 2 leads x 0.32 mm² x 80 cm
Base Orifice Diameter: 1.8 mm
Actuator Orifice Diameter: 1.6 mm
Base Flow Factor: Kv = 0.08 m3/h @ 1 bar ΔP
Length (L): 40 mm
Height (H): 92 mm
Width (W): 42 mm

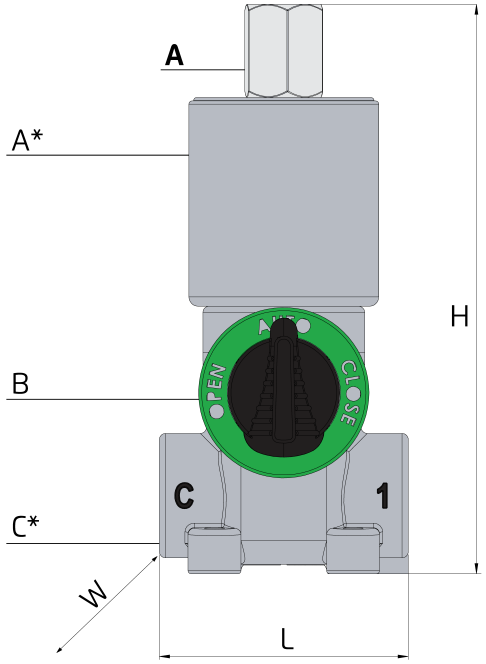
Materials:

Actuator Casing: Nylon
Seals: NBR
Wetted Parts: Stainless Steel
Base: Nylon

Electrical Data

Voltage Range: 9-20 VDC
Coil Resistance: 6 Ω
Coil Inductance: 15/18 mH (off/on)
Pulse Width: 20-100 mSec
Operation Modes (electrical connections):
+Red & - Black: Solenoid vents
+Black & - Red: Solenoid pressurizes

Note: To ensure compatibility of solenoid with your system, please contact BERMAD's local representative.



Port	Size	Connections
1	¼" NPT	Vent
C	¼" NPT	Valve Control Chamber
A	⅛" NPT	Actuator Port (Pressure)

Part	Description
A*	Actuator
B	Manual Override Handle
C*	Hydraulic Base Trio