



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
 - Suits 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

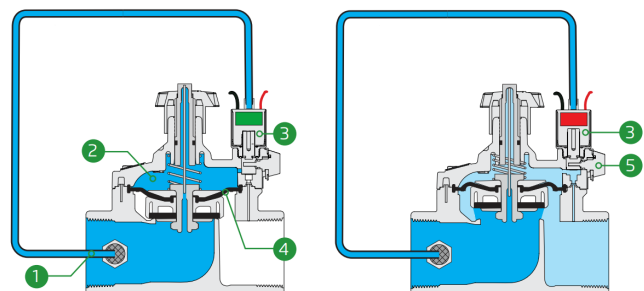
Typical Applications

- 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.





Technical Data

Specifications:

Pressure Rating: 0-150 bar

Max. Temperature: Water 70°C, Ambient 60°C

Leads: 2 leads x 0.000496 Inch² x 31.5 Inch

Actuator Orifice Diameter: 0.06 Inch

Base Flow Factor: Cv = 0.09 GPM @1 psi ΔP

Length (L): 1.6 Inch

Height (H): 3.6 Inch

Width (W): 1.6 Inch

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)

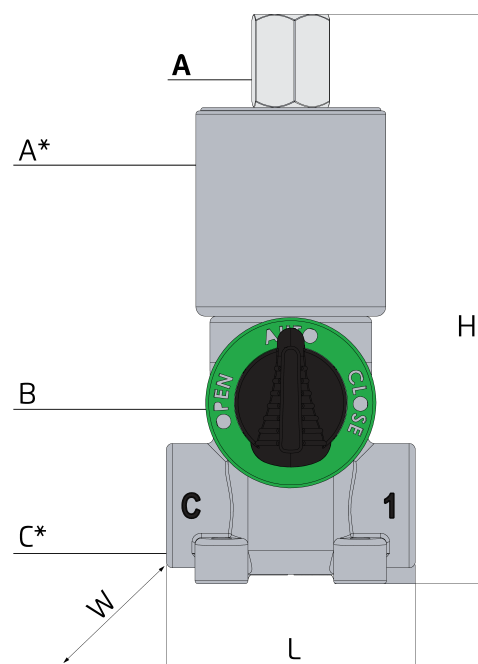
Pulse Width: 20-100 mSec

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	⅜" NPT	Actuator Port (Pressure)

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