



DRY MAGNETIC LATCH SOLENOID PILOT VALVE

Model S-982-3W M.B.

The BERMAD S-982-3W is a compact 3-Way Latching Solenoid Pilot Valve, comprised of two main components: a dry solenoid actuator and a 3-way hydraulic pilot valve. The actuator is neutralized from water damages by an isolating membrane, which hermetically isolates it from the water. The Model S-982-3W consumes power only when switching positions, using a very short electric impulse. This prolongs life of batteries and enables solar recharging. The hydraulic base features a manual override and consists of a bracket for attaching to the valve or to a solenoid manifold.



Features & Benefits

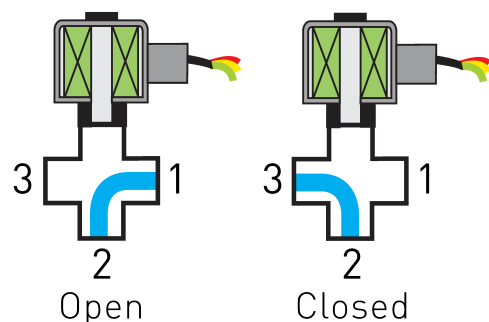
- Advanced Construction Materials, Unique Plastic Casing
 - Proven pressure, voltage and weather resistance
 - Highly durable in corrosive environments
 - Protection Class - IP68; NEMA Type 6D, which applies to a maximum duration of 7 days and to a maximum depth of 5 meters of submersion
- Dry Actuator and Superb Finish
 - Reliable operation under dirt loaded water
 - Suitable to turbid, muddy and/or corrosive water
- Short Electrical Pulse Latch Activation
 - Extremely low power consumption
 - Low voltage battery operation
 - Saves wires and infrastructures costs
 - Suites most Battery Operated Controllers on the market
- Hydraulic Base with Installation Bracket
 - High flow capacity quickens valve response
 - Manual override Open 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
- Systems irrigated with turbid or corrosive water
- Unavailable Power Supply Locations
- Solenoid controlled on/off valves
- Solenoid controlled pressure and flow control valves
- Multiple valve systems
- Solenoid manifolds in irrigation heads

Operation:

- In order to save power, the controller gives an "Open" or "Close" pulse command to the solenoid, which in turn, changes its plunger position.
- To "open" the solenoid, electro-magnetic power push the plunger up and a magnet on the top of the solenoid, hold it in open position.
- To "close" the solenoid, electro-magnetic power, with the help of a spring, push the plunger down.





Technical Data

Specifications:

Pressure Rating: 0-16 bar

Solenoid to Base Connection: By Screws (Self Tapping #8) at the Solenoid base

Leads: 2 leads x 0.32 mm² x 85 cm

Base Orifice Diameter: 2 mm

Base Flow Factor: Pressure port: Kv = 0.12 m³/h @ 1 bar ΔP ;
Exhaust port: Kv = 0.14 m³/h @ 1 bar ΔP

Height (H): 90 mm

Weight: 0.18 Kg

Materials:

Actuator Casing: Nylon

Seals: NBR

Wetted Parts: Nylon

Base: Brass

Electrical Data

Voltage Range: 12-50 VDC

Coil Resistance: 4.2 Ω

Pulse Width: 20-100 mSec

Required Capacitor: 4700 μF

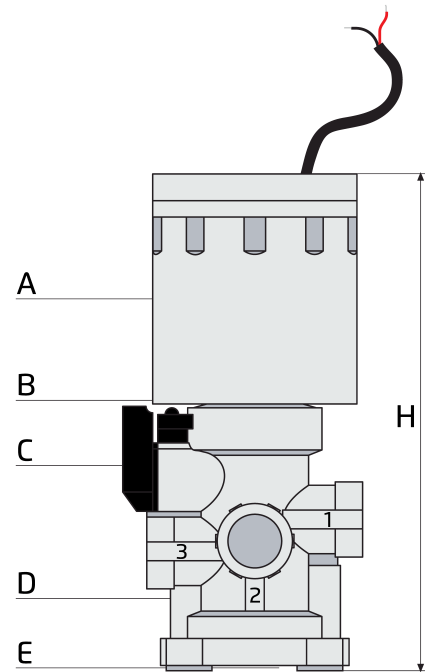
Operation Modes (electrical connections):

+ Red & - Black: Solenoid vents

+ Black & - Red: Solenoid pressurizes

Cable is black PVC sheathed

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



Port	Size	Connections
1	1/8" NPT	Vent
2	1/8" NPT	Valve Control Chamber
3	1/8" NPT	Pressure

Part	Description
A	Actuator
B	Isolating Membrane
C	Manual Override Handle
D	Hydraulic Base
E	Bracket