



DRY MAGNETIC LATCH SOLENOID

with Isolating Membrane &
Hydraulic Base

3-Way, 12VDC Latch, 2- Leads

Model S-982-3W

The BERMAD S-982-3W-BB 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-BB 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
 - Proven pressure, voltage and weather resistance
 - Highly durable in corrosive environments
 - Protection Class- IP68; NEMA Type 6D
- Dry Actuator and Superb Finish
 - Reliable operation under dirt loaded water
 - Suitable to turbid, muddy and/or corrosive water
- Short Electrical Impulse Latch Activation
 - Extremely low power consumption
 - Low voltage battery operation
 - Saves wires and infrastructures
 - Suits most Battery Operated Controllers on the market
 - Applicable in solar activated systems
- 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



Applications Guide

- Systems distanced from control center
- Systems irrigated with turbid or corrosive water
- Unavailable power supply locations
- Solenoid controlled pressure & flow control on/off valves
- Multiple valve systems
- Solenoid manifolds in irrigation heads

All images in this catalog are for illustration only



Specifications

Base Ports: 1/8" NPT

- 1- Vent
- 2- Valve Control Chamber
- 3- Pressure

Valve Anchoring:

By Screws (Self Tapping #8) at the Solenoid base

Leads: 2 leads x 0.32 mm² x 85 cm

Operation Modes (electrical connections):

- + Red & - Black: Solenoid vents
 - + Black & - Red: Solenoid pressurizes
- Cable is black PVC sheathed

Operating Pressure Range: 0-10 bar

Base Orifice Diameter: 2 mm

Base Flow Factor:

Pressure port Kv = 0.12 m³/h @ 1 bar ΔP; Cv = 0.14 GPM @1 psi ΔP

Exhaust port Kv = 0.14 m³/h @ 1 bar ΔP; Cv = 0.16 GPM @1 psi ΔP

Materials:

Actuator Casing: Nylon

Seals and Isolating Membrane: NBR

Wetted parts: Nylon

Base: Nylon (Optional: Brass)

Electrical Data:

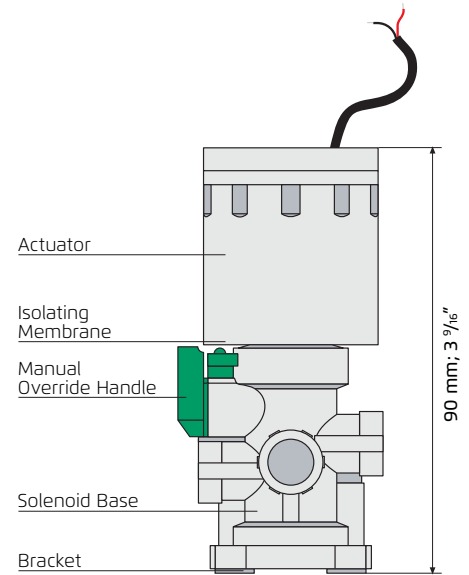
Voltage Range: 12-50 VDC

Coil Resistance: 4.2 Ω

Pulse Width: 20-100 mSec.

Required Capacitor: 4700μF

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



weight: 0.18 kg; 0.4 lbs.