



Dry Magnetic Latch Solenoid

with Isolating Membrane & Hydraulic Base

3-Way, 12VDC Latch, 3- Leads

S-985-3W

The BERMAD S-985-3W-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-985-3W-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.



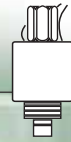
Features and Benefits

- 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



Specifications

Base Ports: 1/8" NPT

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

Valve Anchoring:

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

Leads: 3 leads x 0.32 mm² x 85 cm

Operation Modes (electrical connections):

- + White: Fixed Common
 - Red: Solenoid vents
 - Black: Solenoid pressurizes
- Cable is black PVC sheathed

Operating Pressure Range: 0-10 bar

Base Orifice Diameter: 2.2 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:

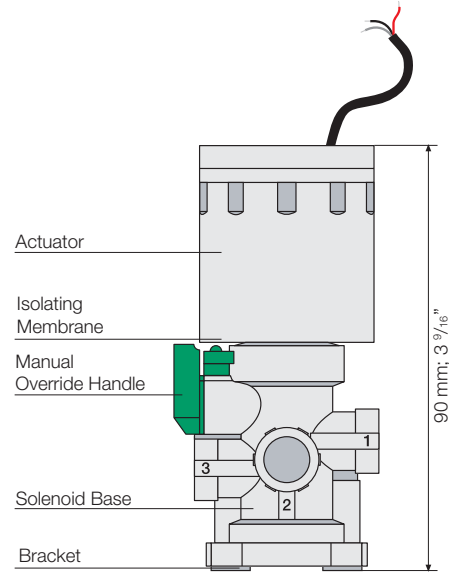
Voltage Range: 12-50 VDC

Coil Resistance: 2 Coils - 4.2 Ω On; 7.5 Ω Off

Pulse Width: 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.

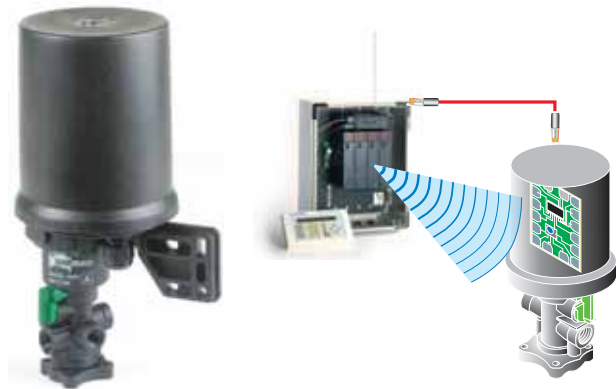
Solenoid Valve for RTU

BERMAD's Solenoid Valve for Remote Terminal Unit (RTU) is a solenoid pilot valve controller used in radio or cable remote control irrigation.

It is a battery operated, self-contained unit.

This solenoid pilot valve is suitable for use in irrigation applications with a master radio control system.

Note: RTU units can be purchased only through Motorola® irrigation control department. For further details please contact: IRRInet.marketing@motorola.com



How to Order

Please Specify the requested Solenoid as follow

■ 2-wires 3-Way Dry Magnetic Latch Solenoid with Hydraulic Base, BERMAD Model: S-985-3L-3W-12V/DC-BB

To Order installed and tested Solenoid Manifold Please Specify:

■ S-985-3L-3W-12V/DC-BB Solenoids Manifold, BERMAD Model: EM-985-_____*

* Specify desired quantity of Solenoids (2-10 Solenoids can be ordered)

