



with Isolating Membrane & Hydraulic Base

3-Way, 12VDC Latch, 3- Leads

Model 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.



- Advanced Construction Materials
 - Proven pressure, voltage and weather resistance
 - Highly durable in corrosive environments
 - Protection Class- IP68; NEMA Type 6P, 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 Impulse Latch Activation
 - Extremely low power consumption
 - Low voltage battery operation
 - Saves wires and infrastructures
 - Suites 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











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 mm

Base Flow Factor:

Pressure port Kv = 0.12 m³/h @ 1 bar Δ P; Cv = 0.14 GPM @1 psi Δ P Exhaust port Kv = 0.14 m³/h @ 1 bar Δ P; Cv = 0.16 GPM @1 psi Δ P

Materials:

Actuator Casing: Nylon

Seals and Isolating Membrane: NBR

Wetted parts: Nylon

Base: Nylon (Optional: Brass)

Electrical Data:

Voltage Range: 12-50 VDC

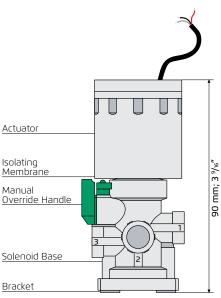
Coil Resistance: 2 Coils - 4.2 Ω On; 7.5 Ω Off

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 ibs.

