The BERMAD Model S-402-3W-BB 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-402-D-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, Unique Plastic Casing
  - Proven pressure, voltage and weather resistance
  - Highly durable in corrosive environments
  - Protection Class- IP68; NEMA Type 6D
- Superb Internal Design and Finish
  - Reliable operation under dirt loaded water
- Short Electrical Impulse Latch Activation
  - Extremely low power consumption
  - Low voltage battery operation
  - Saves wires and infrastructures
  - 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
  - Manual override open and close
  - Simple installation to valve or manifold
- Reliable and Durable Product that Bears the Stamp of BERMAD Quality

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
Specifications

Base Ports: 1/4" 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 80 cm

Operation Modes (electrical connections)
+Red & -Black: Solenoid vents
+Black & - Red: Solenoid pressurizes

Operating Pressure Range: 0-10 bar

Base Orifice Diameter: 2.2 mm

Base Flow Factor: Kv = 0.12 m³/h @ 1 bar ΔP; Cv= 0.14 GPM @1 psi ΔP

Materials:

Actuator Casing: Nylon
Seals: NBR
Wetted parts: Stainless Steel 400 and polyamide

Base: Nylon (Optional: Brass)

Electrical Data:
Voltage Range: 9-40 VDC
Coil Resistance: 6Ω
Coil Inductance: 90 mH
Pulse Width: 20-100 mSec
Required Capacitor: 4700µF

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

How to Order

Please Specify the requested Solenoid as follow


- S-402-2L-3W-9V/DC-BB Solenoid manifold, BERMAD Model: EM-402---

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