



MAGNETIC, LATCH SOLENOID

with Hydraulic Base

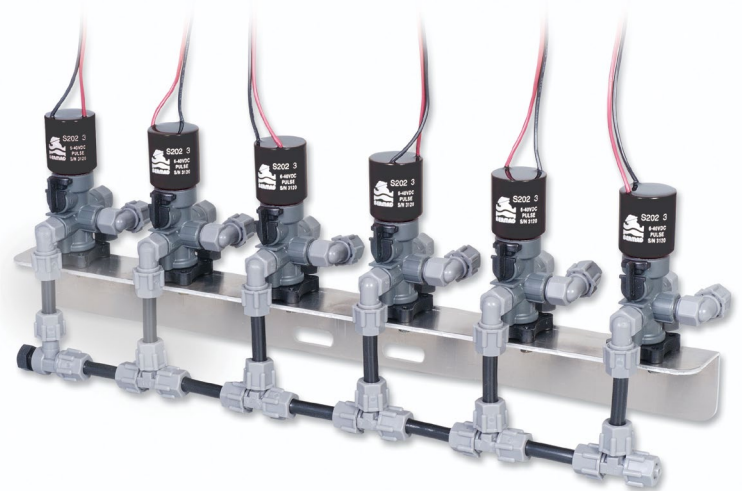
Model S-402-3W

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 & 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: 1/8" 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 80 cm

Operation Modes (electrical connections):

- +Red & -Black: Solenoid vents
- +Black & - Red: Solenoid pressurizes

Operating Pressure Range: 0-10 bar (Plastic Base);
0-16 bar (Metal Base)

Base Orifice Diameter:

- Plastic Base 1.5mm
- Metal Base 0.9mm

Base Flow Factor for Plastic Base: $K_v = 0.08 \text{ m}^3/\text{h} @ 1 \text{ bar } \Delta P$;
 $C_v = 0.09 \text{ GPM} @ 1 \text{ psi } \Delta P$

Materials:

Actuator Casing: Nylon

Seals: NBR

Wetted parts: Stainless Steel 400 and polyamide

Base: Nylon (Optional: Brass)

Electrical Data:

Voltage Range: 9-40 VDC

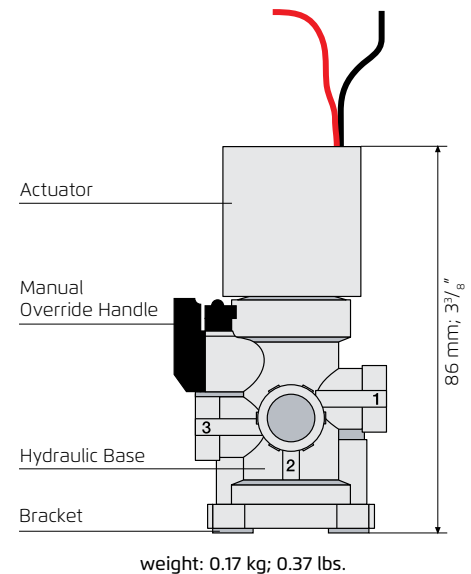
Coil Resistance: 6Ω

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.



weight: 0.17 kg; 0.37 lbs.