3-Way Solenoid

with Hydraulic Base

S-400-3W



The BERMAD S-400-3W is a compact 3-Way Solenoid Pilot Valve that can control valves independently or in combination with other control circuit accessories. It excels in its low power consumption and low sensitivity to dirt and voltage variations. The Model S-400-D-3W-BB, due to its internal diode rectifier, provides remarkable high switching power.
The Model S-400-R-3W-BB is lightning-resistant.
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
  - High mechanical strength
  - Protection Class- IP68; NEMA Type 6D
- Superb Internal Design and Finish
  - Reliable operation under dirt loaded water
  - Low sensitivity to voltage variations
  - 24VAC Coils Suite both 50Hz & 60Hz networks
- Low Power Consumption
  - Low coil heating and sediment damage
  - Saves wires and infrastructures costs
  - Suites all Continuous Current Controllers on the market
- 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
- Simple Installation, Operation and Maintenance
- Reliable and Durable Product that Bears the Stamp of BERMAD Quality



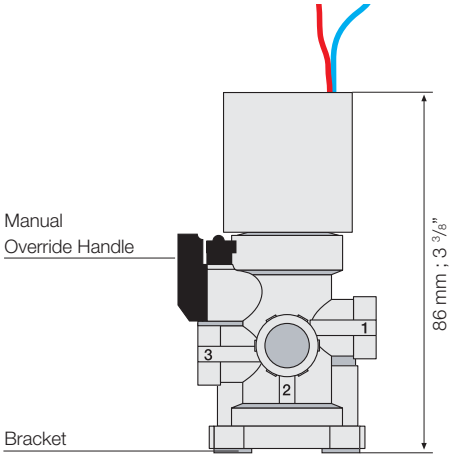
Applications

- Solenoid controlled on/off valves
- Solenoid controlled pressure and flow control valves
- Multiple valve systems
- Systems distanced from control center
- Solenoid manifolds in irrigation heads
- Systems in areas liable to lightning storms (S-400-R)

Specifications

Connections: 1/8" NPT
1- Vent
2- Valve Control Chamber (Common)
3- Pressure
Valve Anchoring: By Screws (Self Tapping #8) at the Solenoid base
Leads: 2 leads x 0.32 mm2; 28 AWG x 80 cm; 31½ inch
Pressure Rating: 10 bar; 150 psi
Pressure Range: 0-10 bar; 0-150 psi
Orifice Diameter: Inlet- 2.2mm
Exhaust- 1.8mm
Flow Factor: KV-0.12 m3/h @ 1bar ΔP
CV- 0.14 GPM @ 1psi ΔP

Materials:
Actuator Casing: Nylon
Seals: NBR
Wetted parts: Stainless steel 400 and polyamide
Base: Nylon (Optional: Brass)



weight: 0.17 kg; 0.37 ibs.

Electrical Data:

Actuator Type	Cable Color	Power (Watt)	Current (Amp)		Coil Resistance ohm@20°C; 68°F
			Inrush	Hold	
S-400-24VAC-D-NO	Red/Blue	3.5	0.20	0.20	*
S-400-24VAC-D-NC	Red/Blue	3.5	0.20	0.20	*
S-400-24VAC-R-NO	Red/Red	3.5	0.60	0.30	14
S-400-24VAC-R-NC	Red/Red	3.5	0.60	0.30	14
S-400-24VDC-NO	Black/Black	4.2	0.17	0.17	135
S-400-12VDC-NO	Blue/Blue	4.0	0.33	0.33	36

* Coil resistance in these coils cannot be measured

How to Order

Please Specify the requested Solenoid as follow:

■ 2-wires, 3-Way Continuous Current Solenoid with Hydraulic Base Model: S-400-3W-_____(a)-_____(b)-_____(c)-BB

(a) Mark D or R, Only for AC Models
(b) Mark desired Voltage: 24V/AC, 24V/DC, 12V/DC
(c) Mark desired Normally De-Energised Function: NO (Open) or NC (Closed)

To Order installed and tested Solenoid Manifold Please Specify:

■ S-400-3W-BB Solenoid manifold, BERMAD Model: E-400-_____(a)-_____(d)-_____(e)-_____(f)

(a) Mark D or R, Only for AC Models
(d) Specify desired quantity of Solenoids (2-10 Solenoids can be ordered)
(e) Mark desired Voltage: 24V/AC, 24V/DC, 12V/DC
(f) Mark desired Normally De-Energised Function: NO (Open) or NC (Closed)

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