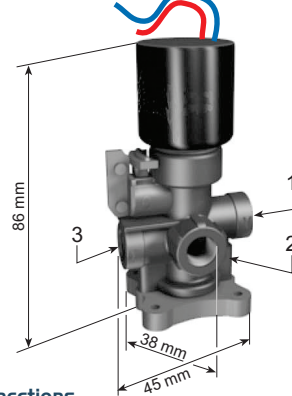


Safety First

BERMAD believes that the safety of personnel working with and around our equipment is the most important consideration. Please read all safety information below and from any other relevant source before attempting to install, use or perform any maintenance operation. Comply with all approved and established precautions for working with your type of equipment or environment. All maintenance tasks should be performed by authorized personnel. Prior to performing a procedure, read it through and understand it. If anything is not clear, ask the appropriate authority.

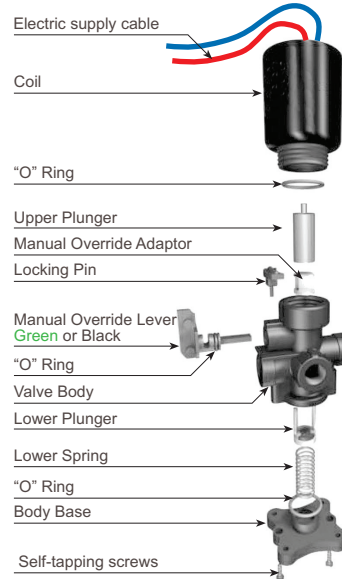
Model S-400
(2-wire cable)



Connections

	Valve N.O. Black Lever	Valve N.C. Green Lever
1	Vent, Exhaust	Pressure
2	Common	Common
3	Pressure	Vent, Exhaust

3



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Hydraulic Specifications

Hydraulic connections: 1/8" NPT (F)

Maximum working pressure: 10 bar

Orifice diameter: 1: 1.8 mm

3: 2.2 mm

Flow rate at ΔP 1 bar: 2.0 l/min

Materials

Plastic parts: Nylon

Spring: Stainless steel

Elastomer: NBR

Anchoring

By four #8 screws to the body base

Electrical Data

Type	Config	Cable Color	Power (Watt)	Coil Resist. (Ohm)
24VDC	N.O.	Black	4.2	135
12VDC	N.O.	Blue	4.0	36
24VAC-D	N.O.	R/B	3.5	-
24VAC-D	N.C.	R/B	3.5	-
24VAC-R	N.O.	Red	3.5	14
24VAC-R	N.C.	Red	3.5	14

Leads: 2 x 0.32mm² x 80cm

R=Red B=Blue

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BERMAD
Water Control Solutions

Manual Override

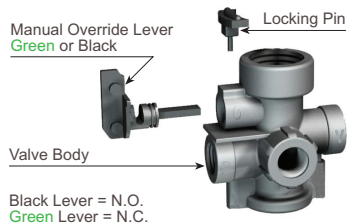
A 3-position lever is provided to enable manual override to the electrical signal and manual control of the Solenoid Assembly.

The 3 positions are:

O = Open, the passage between 3 and 2 is open, between 2 and 1 is closed.

C = Closed, the passage between 3 and 2 is closed, between 2 and 1 is open.

Vertical Position (unmarked) = electrically-controlled, automatic mode.



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Maintenance

This product generally provides maintenance-free operation. Should this product stop functioning correctly, there is probably dirt blocking a water passage.

Flushing the Water Passages:

1. Unscrew & remove the coil from the Valve Body.
2. Press & release (several times) the Manual Override Adaptor. It should be springy, if not:
 - 2.1. Remove the Manual Override Locking Pin.
 - 2.2. Remove the Manual Override Lever.
 - 2.3. Remove the Manual Override Adaptor.
- 2.4. Flush the passages and components.
- 2.5. Reassemble & test.

Continue on the next page

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Maintenance

(Cont. from page 7)

3. If the problem persists:
 - 3.1. Again disassemble the valve body from the coil.
 - 3.2. Press the body base towards the body, remove the 2 self tapping screws and release the body base slowly to avoid lower spring's sudden release.
 - 3.3. Remove the Lower Spring & Lower Plunger.
 - 3.4. Flush the passages and components.
 - 3.5. Reassemble & test.

For any other issues, contact your Bermad representative.

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PTSAE04

Solenoid Model S-400

Installation
Operation
Maintenance



Bermad's Model S-400 Solenoid Assembly is an on/off electric valve combining two main components: an electric actuator (solenoid) and a 3-way hydraulic valve.



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