

2-WAY SOLENOID PILOT VALVE WITH PLASTIC BASE

Model S-390-T-2W P.B.

The BERMAD S-390T-2W with plastic TRIO base is a compact 2-way normally closed solenoid pilot valve, specially designed for reliable long-life service in irrigation systems controlled by continuous current controllers. The S-390T-2W solenoid pilot valve connects to variety of 2-way control circuits. It is compliant with all continuous current output irrigation controllers on the market and excels in its low power demand and low sensitivity to dirt and voltage variations.



Features & Benefits

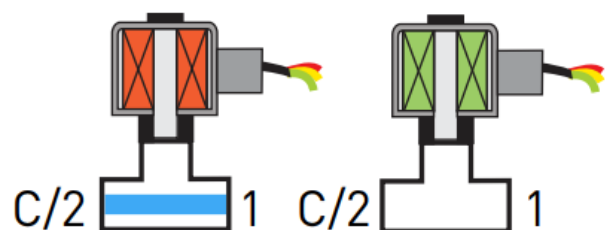
- Advanced Construction Materials
 - Proven pressure, voltage and weather resistance
 - Highly durable in corrosive environments
 - High mechanical strength
 - Protection Class: IP68 – max 3m depth, 7 days submersion
- Superb Internal Design and Finish
 - Reliable operation under dirt loaded water
 - Low sensitivity to voltage variations
- Low Power Consumption
 - Low coil heating and sediment damage
 - Saves wires and infrastructures costs
 - Suites all Continuous Current Controllers on the market
- Simple Installation, Operation and Maintenance
- Robust "Trio" 3-position manual override handle, Close, Open & Automatic modes
- Reliable and Durable Product that Bears the Stamp of BERMAD Quality

Typical Applications

- Solenoid controlled on/off valves
- Solenoid controlled pressure and flow control valves
- Multiple valve systems
- Systems distanced from control center

Operation:

2-way, normally close solenoid & valve: Setting TRIO dial to AUTO enables solenoid control of the valve. When solenoid is deactivated (de-energized), its plunger is pushed out of the coil by a spring, sealing water pass across solenoid base from port C (control chamber) to port 1 (vent). Control chamber pressurizes and valve is closed. Activating the solenoid pulls the plunger in, venting water from the control chamber through solenoid base, flowing from port C to port 1, and valve opens. Switching TRIO dial to Open will open the valve and to Close will shut it, overriding the solenoid control.



Normally Closed



Technical Data

Specifications:

Pressure Rating: 0-150 bar

Max. Temperature: 180°F

Leads: 2 leads x 0.000496 Inch² x 31.5 Inch

Base Flow Factor: Cv = 0.12 GPM @1 psi ΔP

Length (L): 1.6 Inch

Height (H): 1.7 Inch

Materials:

Actuator Casing: Nylon

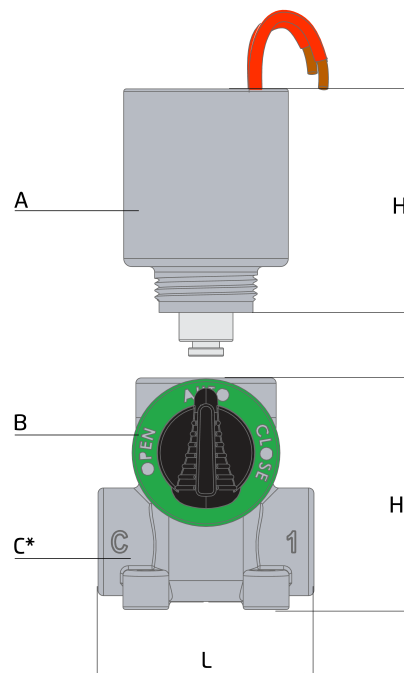
Seals: NBR

Wetted Parts: Stainless steel and polyamide

Base: Nylon

Electrical Data

Actuator Type	Cable Color	Power (Watt)	Current (Amp)		Coil Resistance ohm@68°F
			Inrush	Hold	
S-390-T-2W P.B.-24VAC-R	Red/Red	1.7	0.25	0.125	36
S-390-T-2W P.B.-24VAC-D	Red/Orange	2.2	0.13	0.13	-
S-390-T-2W P.B.-24 V DC	Black/Black	4.2	0.18	0.18	156



Port	Size	Connections
1	¼" NPT	Outlet
C	¼" NPT	Inlet

Part	Description
A	Actuator
B	Manual Override Handle
C*	Hydraulic Base Trio

Cable Length Data

Maximum cable length according to coil type:

$$S = \frac{L (SOL)}{L (diagram)} \times 0.5$$