



2-WAY SOLENOID ACTUATOR FOR TRIO

Model S-390-T-2W

The BERMAD S-390T-2W is a compact 2-way normally closed solenoid actuator, specially designed for reliable long-life service in irrigation systems controlled by continuous current controllers. The S-390T-2W solenoid actuator is applicable directly to the Trio valve cover or to a Trio base that can connect 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

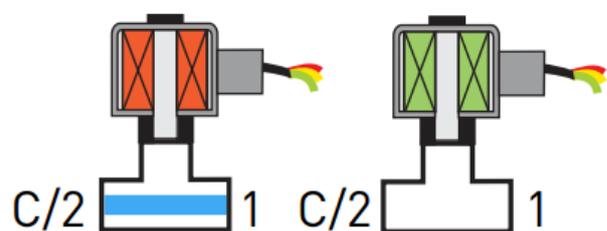
- Advanced Construction Materials, Unique Plastic Casing
 - Proven pressure, voltage and weather resistance
 - Highly durable in corrosive environments
 - High mechanical strength
 - Protection Class: IP68 – max 3m depth, 7 days submersion
- Superb Internal Design and Finish
 - Reliable operation under 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 vent which pressurizes valve's control chamber, closing the valve. Activating the solenoid pulls the plunger in, venting water from the control chamber 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

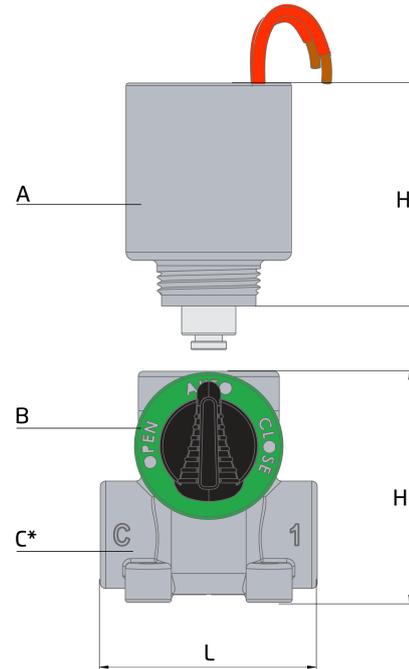
Seals: NBR

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-24VAC-R	Red/Red	1.7	0.25	0.125	36
S-390-T-2W-24VAC-D	Red/Orange	2.2	0.13	0.13	-
S-390-T-2W-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:

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