



SMART IRRIGATION SOLENOID CONTROLLER

With 3-Way Hydraulic Base

GreenApp 402

The BERMAD GreenApp 402 is Smart, flexible, easy to use, Bluetooth single station irrigation controller integrate with a 3-Way solenoid actuator for easy and compact installation on any control valve.

The BERMAD controller Model GreenApp 402 is a compact battery operated 3-Way latching solenoid pilot valve comprised of two main components: a controller integrate with solenoid actuator and a 3-Way hydraulic pilot valves.

The BERMAD GreenApp 402 can control valves independently or in combination with other control circuit accessories. The controller consumes power only when switching positions, using a very short electric pulse. This prolongs life of batteries. The hydraulic base features a manual override and includes a bracket for valve or solenoid manifold assembly. With the BERMAD GreenApp 402 you can connect to a free (Android and iOS) user-friendly app, and manage your irrigation from your smart-phone or tablet.



Features & Benefits

- Easy to install, simple to operate
 - Install the solenoid – the controller is already included
 - Intuitive - intuitive app provides easy programming
- Advanced Construction Materials, Unique Plastic Casing
 - Proven pressure, voltage and weather resistance
 - Change settings using the app from 10-30m; 30-90f
 - No wires and no screen – keypad is in your pocket
 - Durable in all environment conditions
 - Protection Class- IP68; NEMA Type 6D
- Superb Internal Design and Finish
 - Reliable operation under dirt loaded water
- Low power consumption
 - Powered by two placeable alkaline 1.5v AA batteries
 - Bluetooth 4.0 communication require ultra-low energy
 - Up to three years of continuous operation
 - Time based irrigation control
- Irrigation cycles control by days and hours
 - Irrigation duration from 1 minute to 24 hours
 - Weekly and cyclic programming
 - Option of naming and managing multiple controllers
- 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 carries the Stamp of BERMAD Quality



Typical Applications

- Systems distanced from control center
- Unavailable power supply locations
- Solenoid controlled on/off valves
- Solenoid controlled pressure and flow control valves



Technical Data

Base Ports: 1/8" NPT

1- Vent

2- Valve Control Chamber

3- Pressure

Valve Anchoring:

By Screws (Self Tapping #8) at the Solenoid base

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

Base Orifice Diameter: 2.2mm (Plastic Base);
0.9mm (Metal Base)

Base Flow Factor for Plastic Base:

$K_v = 0.12 \text{ m}^3/\text{h} @ 1 \text{ bar } \Delta P;$

$C_v = 0.14 \text{ GPM} @ 1 \text{ psi } \Delta P$

Base Flow Factor for Metal Base:

$K_v = 0.026 \text{ m}^3/\text{h} @ 1 \text{ bar } \Delta P;$

$C_v = 0.03 \text{ GPM} @ 1 \text{ psi } \Delta P$

Materials:

Actuator Casing: Nylon

Seals: NBR

Wetted parts: Stainless Steel 400 and polyamide

Base: Nylon (Optional: Brass)

