3W SOLENOID CONTROLLED VALVE

Model IR-210-3W-X

The BERMAD Solenoid Controlled Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts in response to an electric signal.

[1] BERMAD Model IR-210-3W-X opens in response to electric signal.
[2] BERMAD Ultrasonic Water Meter
[3] BERMAD Combination Air Valve Model IR-C10
[4] BERMAD Vacuum Breaker
[5] RTU

Features & Benefits

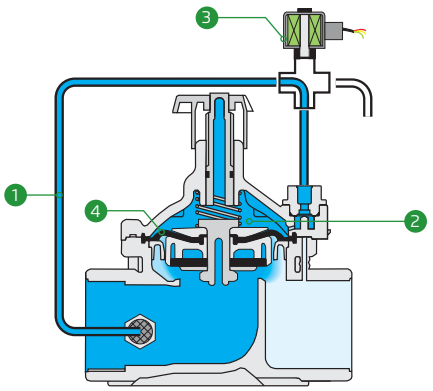
- Line Pressure Driven, Hydraulically Controlled
  - Hydraulically control Valve with Solenoid Control
  - Line pressure driven
  - Electrically controlled On/Off
  - Suitable also for remote and/or elevated systems
- Plastic Globe Hydro-Efficient Valve
  - Unobstructed flow path
  - Single moving part
  - High flow capacity
  - Highly durable, chemical and cavitation resistant
- Unitized Flexible Diaphragm and Guided Plug
  - Excellent low flow regulation performance
  - Prevents diaphragm erosion and distortion
- Fully Supported & Balanced Diaphragm
  - Requires low actuation pressure
- User-Friendly Design
  - Simple in-line inspection and service

Typical Applications

- Computerized Irrigation Systems
- Distribution Centers
- Landscape
- Low Supplied Pressure Irrigation Systems

Operation:

Line Pressure ❶ is applied to the Control Chamber ❷ through the opened 3-Way Solenoid ❸. This creates superior closing force that moves the Diaphragm Assembly ❹ toward a closed position. Closing the solenoid causes it to discharge pressure from the control chamber, thereby opening the valve.



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Technical Data

Rating:
10 bar; 145 psi

Operating Pressure Range:
0.5-10 bar; 7-145 psi

Materials:

Body, Cover and Plug:
Polyamid 6 & 30% GF

Diaphragm: NBR

Seals: NBR

Spring: Stainless Steel

Cover Bolts: Stainless Steel

Control Accessories:

Tubing and Fittings:
Plastic

Solenoid Voltage Range:

S-390 & S-400:
24 VAC, 24 VDC

S-392-T & S-402:
9-20VDC Latch

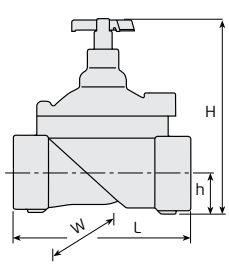
S982 & S985:
12-50 VDC Latch

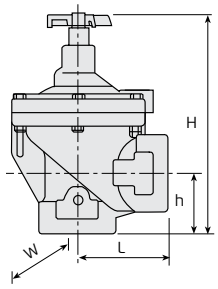
Other Voltages available

Technical Specifications

Dimensions & Weights

For more details of BERMAD 200 series
Please see our full engineering page.





Sizes Inch ; DN	1½" ; 40		2" ; 50	
Pattern	Globe	Angle	Globe	Angle
L (mm)	160	80	170	85
H (mm)	180	190	190	210
W (mm)	125	125	125	125
h (mm)	35	40	38	60
Weight (kg)	1	0.95	1.1	0.91

Flow Properties

Sizes Inch / DN	1½" 40	1½" 40	2" 50	2" 50
Pattern	G	A	G	A
KV	37	41	47	52

Valve Flow Coefficient

$$\Delta P = \left(\frac{Q}{Kv}\right)^2$$

Kv = m^3/h @ ΔP of 1 bar
Q = m^3/h
ΔP = bar

Flow Chart