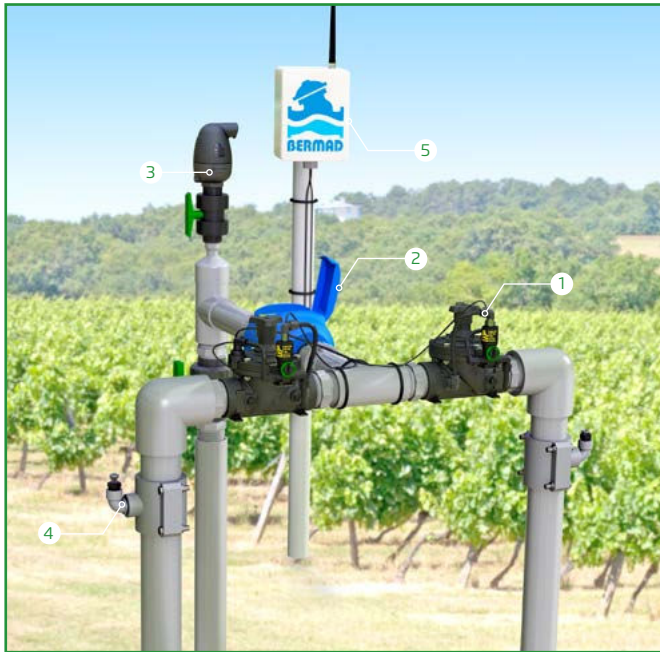




3W SOLENOID CONTROLLED VALVE

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

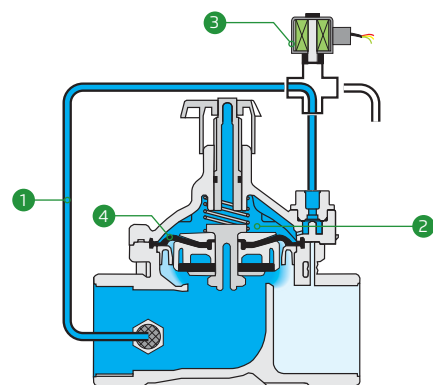
- Line Pressure Driven, Hydraulically Controlled
 - Hydraulically control Valve with Solenoid Control
 - Line pressure driven
 - Electrically controlled On/Off
 - Suitable also for remote and/or elevated systems
- Plastic Globe Hydro-Efficient Valve
 - Unobstructed flow path
 - Single moving part
 - 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

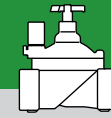
Typical Applications

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

Operation:

Line Pressure **1** is applied to the Control Chamber **2** through the opened 3-Way Solenoid **3**. This creates superior closing force that moves the Diaphragm Assembly **4** toward a closed position. Closing the solenoid causes it to discharge pressure from the control chamber, thereby opening the valve.





IR-210-3W-X

Technical Data

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

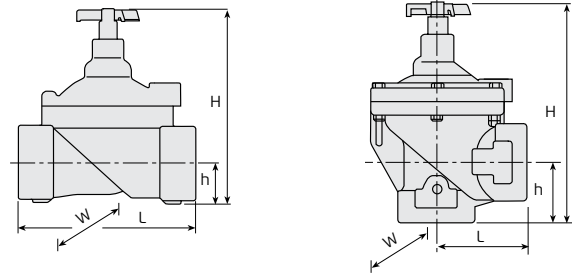
Materials:
Body, Cover and Plug:
Polyamid 6 & 30% GF
Diaphragm: NBR
Seals: NBR
Spring: Stainless Steel
Cover Bolts: Stainless Steel

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

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

$Kv = m^3/h @ \Delta P \text{ of } 1 \text{ bar}$
 $Q = m^3/h$
 $\Delta P = \text{bar}$

Flow Chart

