

Thursday, 4 September 2003



---

## **BERMAD 200 Series – Description and Features**

### **Plastic Hydraulic/Electric Control Valves**

#### **For residential, commercial, and agricultural irrigation systems**

### **DESCRIPTION**

The **BERMAD 200 Series** plastic control valves range in size from ¾" to 2", and are available in either globe or angle pattern. These control valves provide superior hydraulic and electric performance, using state-of-the-art plastic technology.

### **FEATURES**

- Constructed of corrosion-resistant, state-of-the-art plastics, synthetic rubber and stainless steel parts
- Combines a very high flow rate with very low head loss
- Operates over a wide range of pressures
- Prevents pressure surge hazards through the smooth opening and closing of the valve
- Provides reliable valve operation, even with brackish water using a self-cleaning orifice on electric models
- Provides a flow control handle for water flow adjustment
- Provides a manual solenoid override for opening valves in case of power failure, without external water spill
- Uses a high performance solenoid with low electrical power consumption
- Available in a wide range of models, including electric and pressure regulating control valves



---

## **BERMAD 200 SERIES – Technical Specifications**

### **Plastic Hydraulic/Electric Control Valves**

#### **For residential, commercial, and agricultural irrigation systems**

### **TECHNICAL SPECIFICATIONS**

#### **Physical**

##### ***Valve Pattern:***

- Globe
- Angle
- Oblique "Y"

##### ***Sizes:***

- 3/4"
- 1"
- 1 1/2"
- 2"

##### ***End Connections:***

- Female threaded, NPT/BSPT

##### ***Materials:***

- Body and cover: Nylon, reinforced
- Metal parts: Stainless steel
- Diaphragm: Natural rubber
- Seals: Buna-N and NR

#### **Operating**

##### ***Pressure Rating:***

- 10 bar (147 psi)

##### ***Pressure Range:***

- 0.7 -10 kg/cm<sup>2</sup> (10-150 psi)

##### ***Temperature Range:***

- 80°C (180°F) [water]

#### **Electrical**

##### ***Standard:***

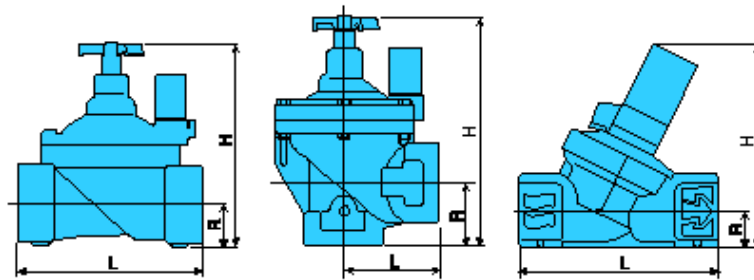
- Voltage: 24VAC (50-60 Hz)
- Current: holding 0.20A, inrush 0.40A

##### ***Optional Voltages:***

- VDC:     6     12     24     -     -
- VAC:     -     12     -     120    240

**BERMAD 200 Series – Dimensions and Weights**  
**PLASTIC HYDRAULIC/ELECTRIC CONTROL VALVES**  
 For residential, commercial, and agricultural irrigation systems

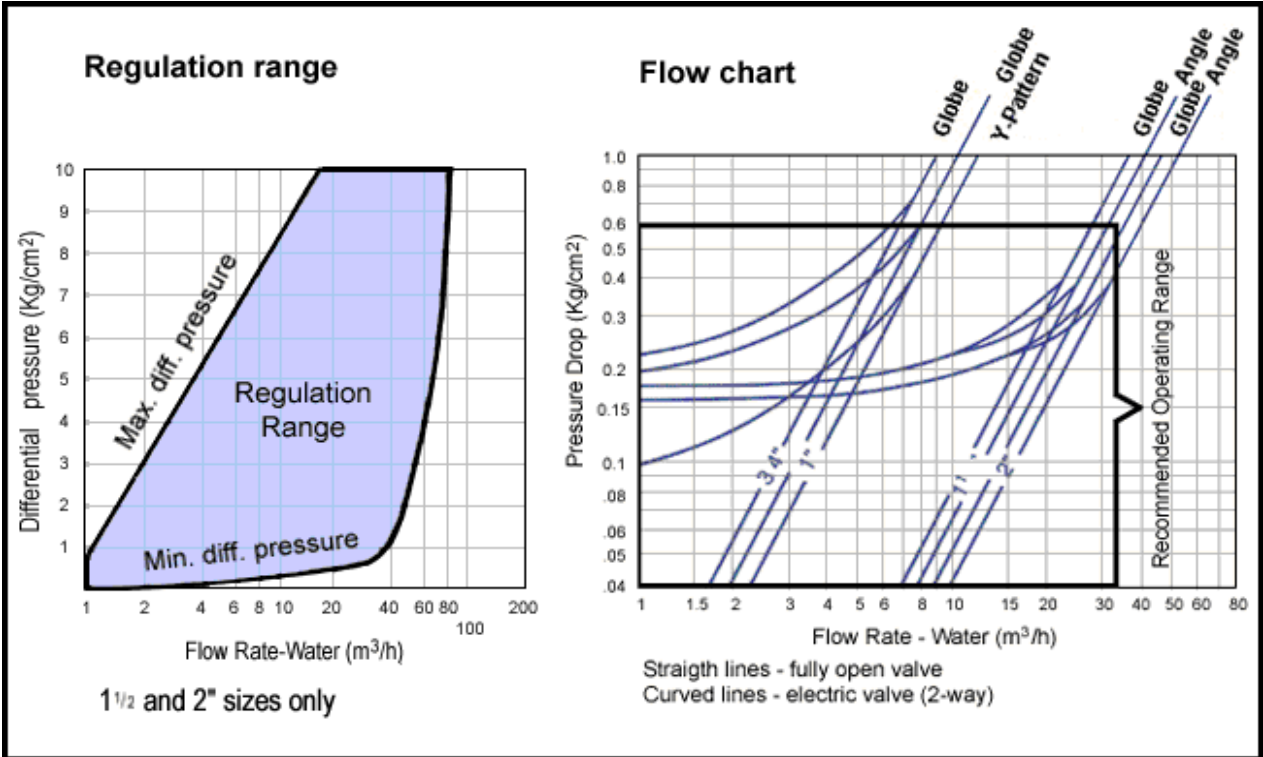
**DIMENSIONS and WEIGHTS**



	Globe Pattern				Angle Pattern		Y Pattern
Size	3/4"	1"	1 1/2"	2"	1 1/2"	2"	1"
L (mm)	110	110	160	170	80	85	114
H (mm)	115	300	180	190	190	210	115
R (mm)	22	22	35	38	40	60	21
Width (mm)	78	78	125	125	125	125	68
Weight (kg)	0.35	0.38	1	1.1	0.95	0.91	0.3

**BERMAD 200 Series – Performance Charts**  
**PLASTIC HYDRAULIC/ELECTRIC CONTROL VALVES**  
 For residential, commercial and agricultural irrigation systems

**PERFORMANCE CHARTS**





---

## **BERMAD 200 Series – Main Models**

### **PLASTIC HYDRAULIC/ELECTRIC CONTROL VALVES**

**For residential, commercial, and agricultural irrigation systems**

#### **MAIN MODELS**

##### ***Model 205 - Hydraulic Control Valve***

The Model 205 is a hydraulically-operated control valve, requiring a pressure command to close.

##### ***Model 210 - Electric Control Valve***

The Model 210 is a hydraulically-operated control valve with a 2-way solenoid pilot including manual override. This valve is N.C. (normally closed), requiring electrical energy to remain open.

##### ***Model 220 (1½" and 2" only) - Pressure-Reducing Control Valve***

The Model 220 reduces high upstream pressure to a settable lower downstream pressure.

##### ***Model 220-55 (1½" & 2" only) - Pressure-Reducing & Electric Control Valve***

The Model 220-55 combines Model 220 with electric remote control.