



## 200 Series

# PLASTIC HYDRAULIC / ELECTRIC CONTROL VALVES

For residential, commercial and agricultural irrigation systems

The **BERMAD 200 Series** plastic control valves range from 3/4" to 2" in size, in either globe or angle pattern. These control valves provide superior hydraulic performance, constituting as they do, the state-of-the-art in hydraulics and in plastic technology.

### FEATURES

- Constructed of corrosion-resistant, high engineering plastics, synthetic rubber and stainless steel parts.
- Very high flow rate with very low head loss.
- Operation over a wide range of pressures.
- Smooth valve opening and closing prevents pressure surge hazards.
- Self-cleaning orifice on electric models provides reliable valve operation, even with brackish water.
- Flow control handle for water flow adjustment.
- Manual solenoid override for opening valves in case of power failure without external water spill.
- High performance solenoid with low electrical power consumption.
- Wide range of models of electric and pressure regulating control valves.



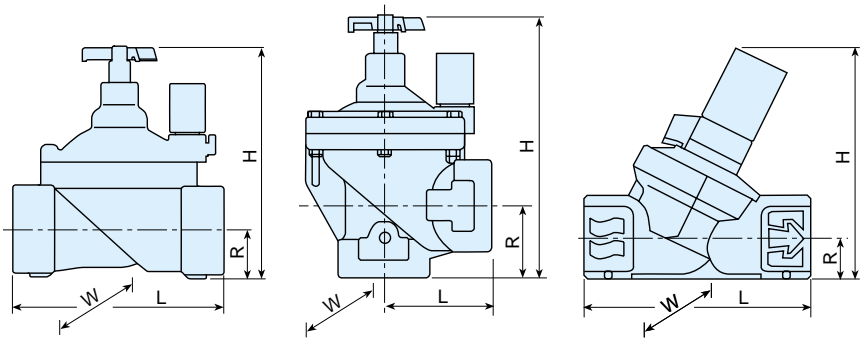


TECHNICAL DATA

Specifications

- **Valve Pattern:** globe, angle & Y-pattern (1" only)
- **Sizes:** 3/4", 1", 1 1/2" & 2"
- **End Connections:**
  - female threaded BSP, NPT
- **Pressure Rating:**
  - ISO: PN 10
  - ANSI: Class 125
- **Operating Pressure Range:**
  - 0.7-10 bar (10-150 psi)
- **Temperature Range:**
  - Water up to 80°C (180°F)
- **Electrical Data:**
  - **Standard:**
    - Voltage: 24V AC (50-60 Hz)
    - Current: holding 0.20A, inrush 0.40A
  - **Optional Voltages:** 6V DC, 12V DC, 24V DC, 12V AC, 24V AC
- **Materials:**
  - Body and cover: Nylon Reinforced
  - Metal parts: Stainless Steel
  - Diaphragm: Natural Rubber
  - Seals: Buna-N and NR

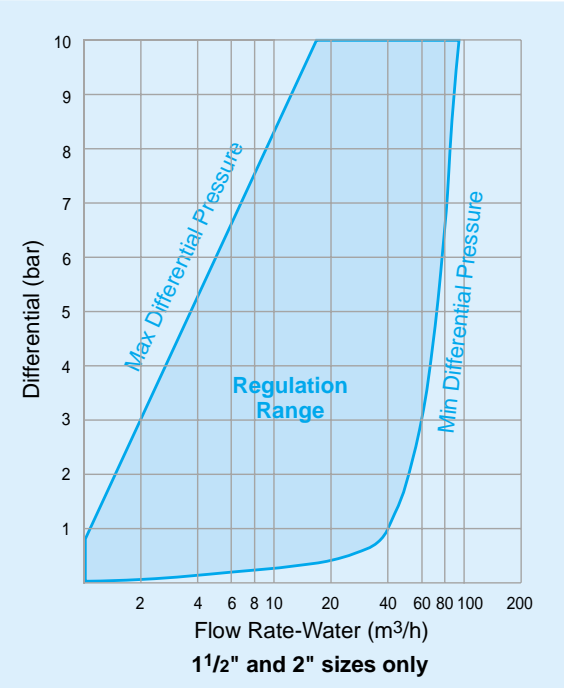
Dimensions and Weights



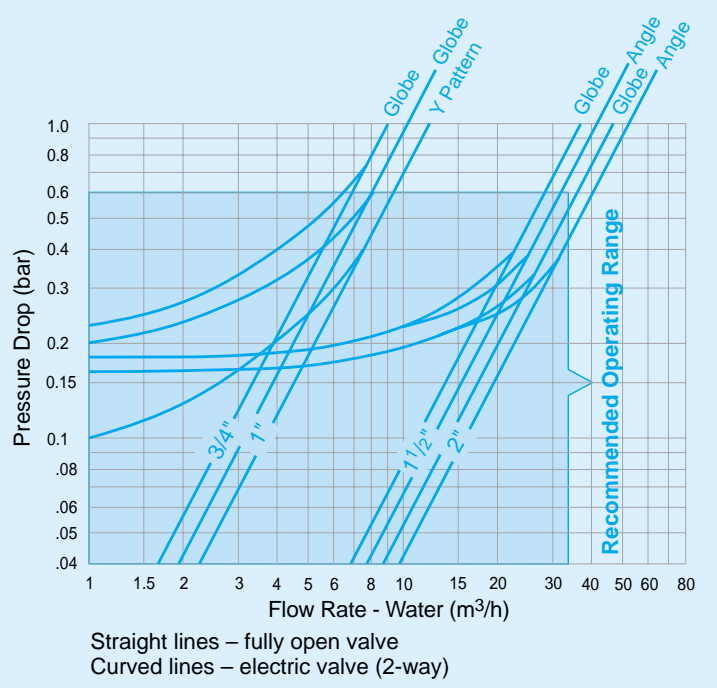
	Globe Pattern				Angle Pattern		Y Pattern
Size (mm)	3/4"	1"	1 1/2"	2"	1 1/2"	2"	1"
L	110	110	160	170	80	85	114
H	115	115	180	190	190	210	115
R	22	22	35	38	40	60	21
W	78	78	125	125	125	125	68
Weight (kg)*	0.35	0.33	1.0	1.1	0.95	0.91	0.30

\* Without flow control handle

Regulation Range

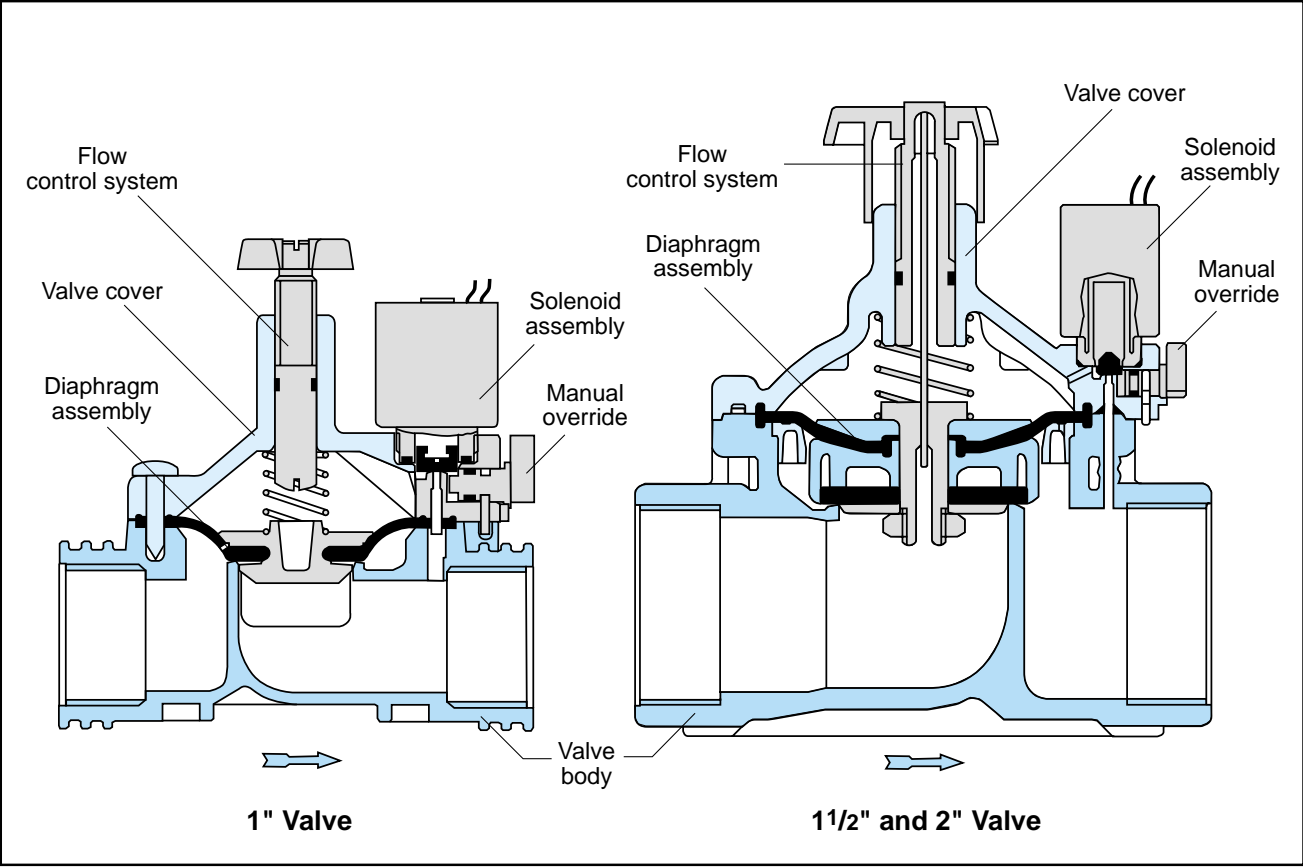


Flow Chart





HYDRAULIC/ELECTRIC CONTROL VALVE ASSEMBLY



AVAILABLE MODELS



**Model 205**  
**Hydraulic Control Valve**  
Model 205 is a hydraulically operated control valve, requiring a pressure command to close.



**Model 220 (1 1/2" and 2" only)**  
**Pressure Reducing Control Valve**  
Model 220 reduces high upstream pressure to lower set downstream pressure.



**Model 210**  
**Electric Control Valve**  
Model 210 has a 2-way solenoid pilot valve with manual override. The valve is N.C. (normally closed), requiring electrical energy to open.



**Model 220-55 (1 1/2" and 2" only)**  
**Pressure Reducing and Electric Control Valve**  
Model 220-55 combines Model 220 with electric remote control.