

# LEVEL CONTROL AND PRESSURE SUSTAINING VALVE

with Bi-Level Electric Float

**Model 753-65-M5/M5L/M6**

Hydraulically operated, level control and pressure sustaining control valve that controls reservoir filling and reservoir level. During filling the valve sustains minimum upstream pressure regardless of fluctuating flow or reservoir level. Reservoir filling is in response to a Bi-level electric float switch signal opening at a pre-set low level and shutting off at a pre-set high level.

The BERMAD 700 Series large size control valves are hydraulically operated, diaphragm actuated type. Unique hydro-dynamic globe valve design with a special open plug provides high flow capabilities. The valves are available in the standard configuration or with an Independent Check Feature code "2S".



[Click here for control accessories](#)



HOME VIEW

## Features and Benefits

- Hydrodynamic wide globe valve body provides:
  - Higher flow (Kv; Cv) than standard globe valves
  - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can work without an external source of power.
- Wide range of options and accessories:
  - One-way or two-way flow direction
  - V-Port
  - Cavitation cage
  - Visual position indicator
  - Limit switches
  - Analog opening output
  - Large selection of control accessories
  - Double chamber actuation (700-M6)
  - Large inspection and service ports (700-M5L)

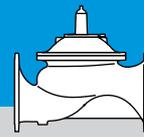
## Major Additional Features

- Level control – 750-66-M5/M5L/M6
  - Flow control – 757-66-U-M5/M5L/M6
  - Hydraulic float backup – 753-65-66-M5/M5L/M6
  - Closing surge prevention – 753-65-49-M5/M5L/M6
  - Relief override – 753-65-3Q-M5/M5L/M6
  - Independent Check Feature – 753-65-2S-M5/M5L/M6
- See relevant BERMAD publication

## Typical Installation

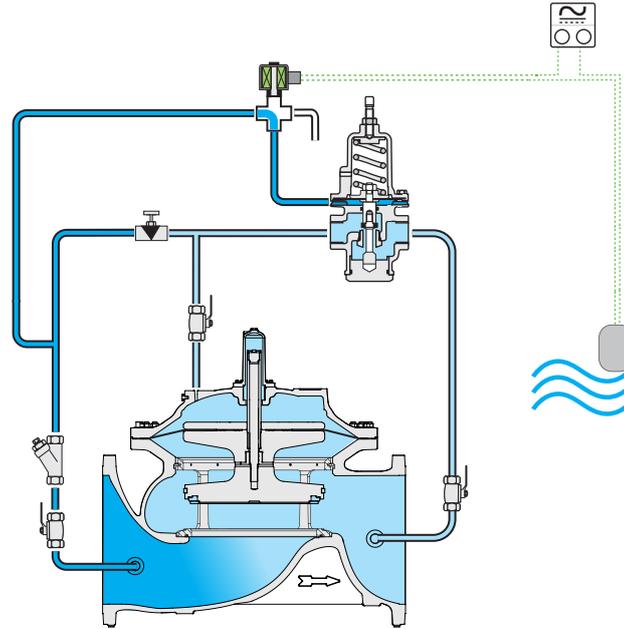


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Model 753-65-M5/M5L/M6

CLOSED  
Regulating



### Main Valve

**Valve Pattern:** Globe  
**Size Range:** DN 500-1200; 20"-48"  
**Pressure Rating:** 40 bar; 600 psi  
**End Connections:** Flanged  
**Temperature Rating:** 60°C; 140°F for Cold water applications.  
**Optional higher temperature:** Available on request  
**Coating:** Dark blue Fusion bonded epoxy

### Control System

**Standard Materials:**  
**Accessories:** Stainless Steel, Bronze & Brass  
**Tubing:** Stainless Steel or Copper  
**Fittings:** Stainless Steel or Brass

**Pilot standard materials:**  
**Body:** Stainless Steel, Bronze or Brass  
**Elastomers:** Synthetic Rubber  
**Spring:** Stainless Steel  
**Internals:** Stainless Steel

### Float Pilot Standard Materials:

**Body:** Brass or Stainless Steel 316  
**Elastomers:** Synthetic Rubber  
**Internal Parts:** Stainless Steel 316 & Brass  
**Lever System:** Brass or Stainless Steel 316  
**Float:** Plastic  
**Float Rod:** Stainless Steel  
**Base Plate:** Fusion Bonded Epoxy Coated Steel or  
**Stainless Steel 316**

### Solenoid Standard Materials:

**Body:** Brass or Stainless Steel  
**Elastomers:** NBR or FPM  
**Enclosure:** Molded Epoxy

### Solenoid Electrical Data:

**Voltages:**  
**(AC):** 24, 110-120, 220-240, (50-60Hz)  
**(DC):** 12, 24, 110, 220

### Power Consumption:

**(AC):** 30VA, inrush; 15VA (8W), holding or 70VA, inrush: 40VA (17.1W), holding  
**(DC):** 8-11.6W  
 Values might vary according to specific solenoid model  
 For more details check solenoid product page.

### Notes:

- Inlet Pressure, Outlet Pressure and Flow-rate are required for optimal sizing.
- Recommended maximum flow velocity: 6.0 m/sec; 20 ft/sec.
- Minimum operating pressure: 0.7bar/10psi. For lower pressure requirements consult factory.
- See BERMAD float installation recommendation.

