

# LEVEL CONTROL & PRESSURE SUSTAINING VALVE

with Bi-Level Electric Float

## Model 753-65-M5-M5M-M5L

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 control valves are hydraulically operated and diaphragm actuated. Their unique hydro-dynamic globe design with an open plug ensures high flow capabilities.



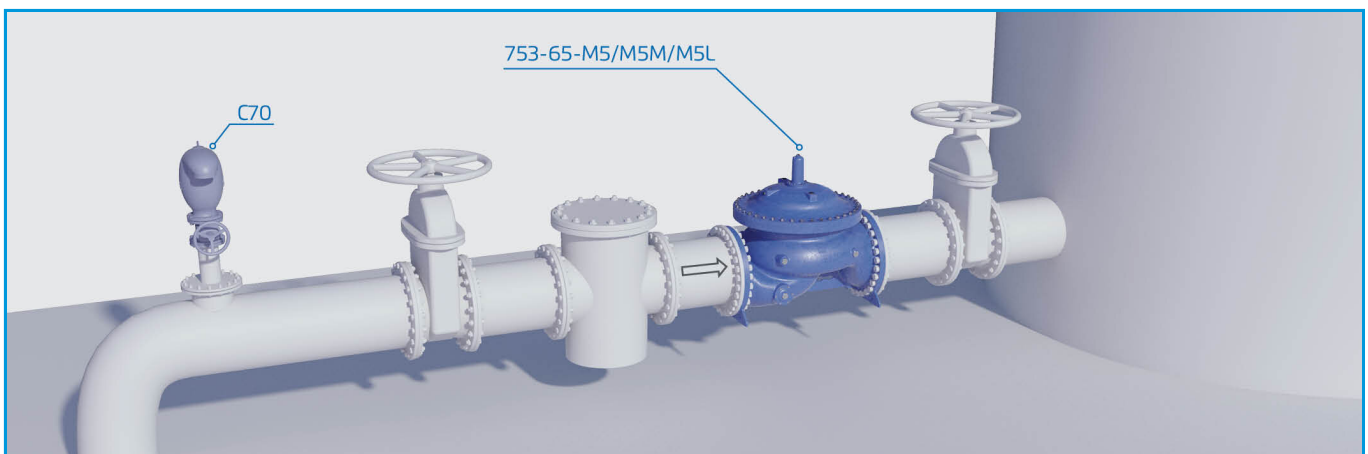
### Features & Benefits

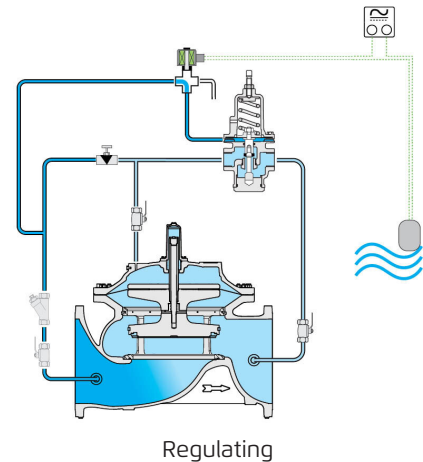
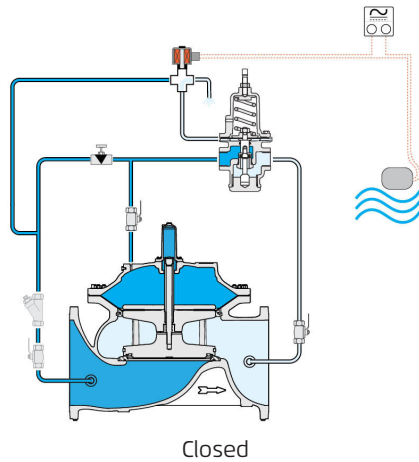
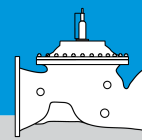
- Hydrodynamic wide globe valve body provides:
  - Higher flow coefficient (Kv; Cv) than standard globe valves
  - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can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

### Typical Applications

- Level control for water reservoirs
- Bi-Level control for water refreshment
- Water delivery system - Prioritizing upstream over reservoir filling

### Typical Installation





## Main Valve

**Size Range:** 20"-36"; DN500-900

**Pattern:** Globe

**Pressure Rating:** 25 bar

**End Connection:** Flanged

**Plug Types:** Flat disc, V-port, Cavitation cage

**Temperature Rating:** 80°C

*For 60-80°C consult factory*

### Standard Materials:

**Body & Cover:** Ductile Iron

**Cover Bolts:** Stainless Steel

**Internals:** Epoxy coated Ductile Iron, Stainless Steel & Tin Bronze

**Diaphragm:** Fabric-reinforced synthetic rubber

**Seals:** Synthetic rubber

**Coating:** Dark blue Fusion bonded epoxy

*For other materials contact BERMAD*

## 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 & Brass

**Elastomers:** Synthetic Rubber

**Internals and Spring:** Stainless Steel

### 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 may 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: 0.7 bar; 10 psi. For lower pressure requirements consult factory.
- See BERMAD float installation recommendation.

For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the [BERMAD](https://www.bermad.com) website.



[www.bermad.com](https://www.bermad.com)

The information contained herein may be changed by BERMAD without notice. BERMAD shall not be held liable for any errors.

© Copyright 2015-2025 BERMAD CS Ltd

October 2025