

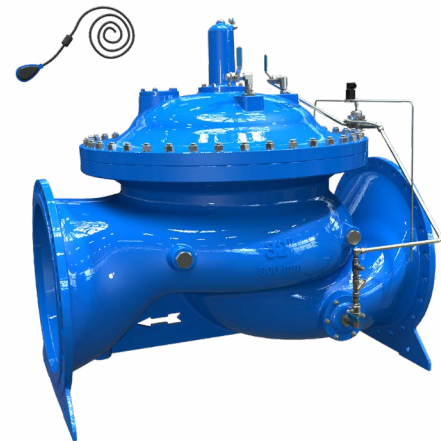
LEVEL CONTROL VALVE

with Bi-Level Electric Float

Model 750-65-M5/M5M/M5L

Hydraulically operated control valve that controls reservoir filling and 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".



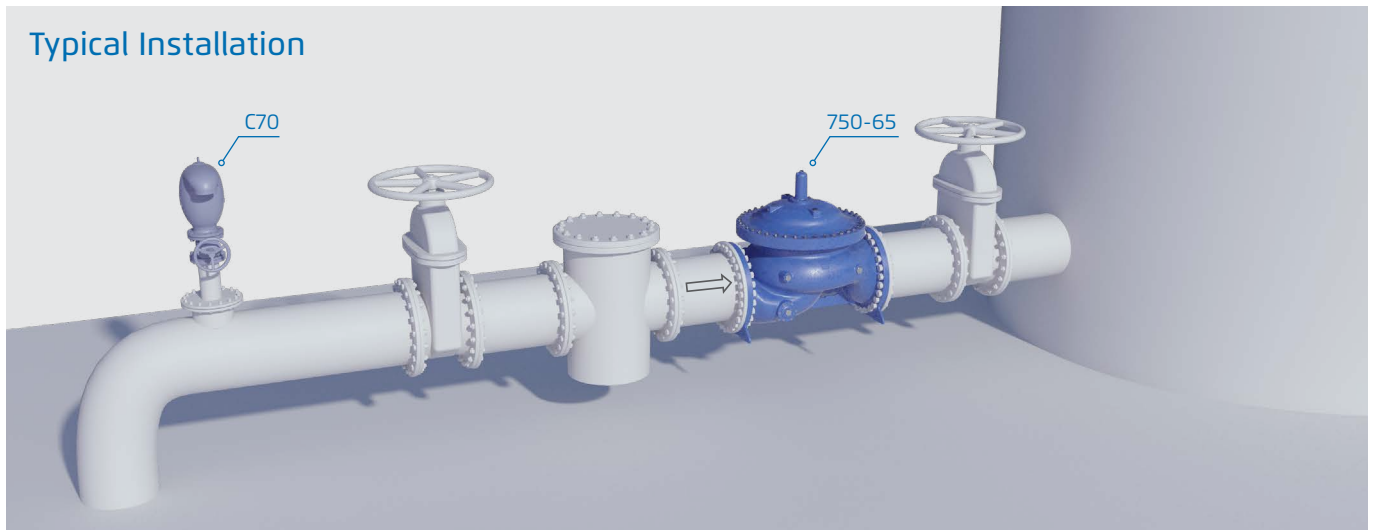
Features and Benefits

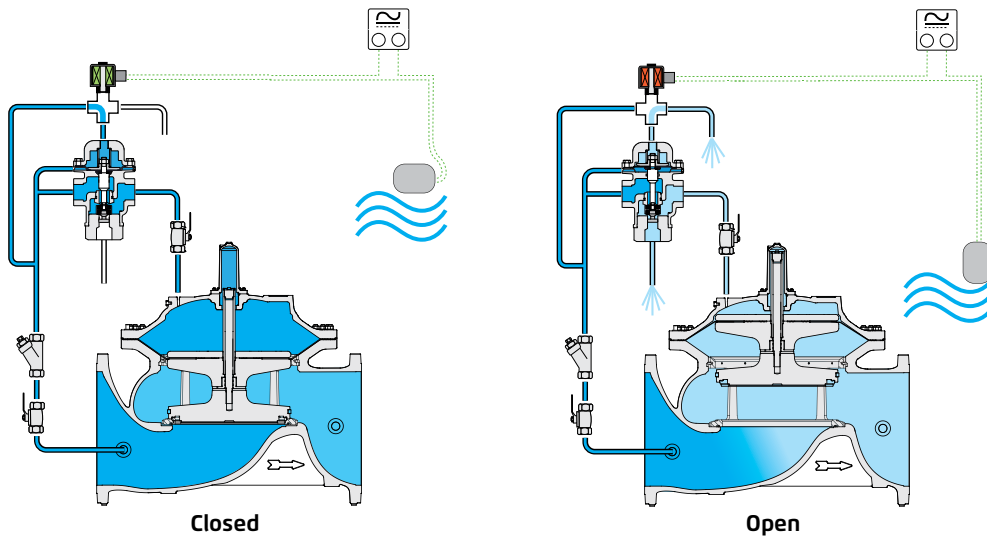
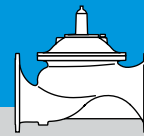
- Hydrodynamic wide globe valve body provides:
 - Higher flow (Kv; Cv) than standard globe valves
 - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can work without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

Major Additional Features

- Pressure sustaining – 753-65-M5/M5L
 - Closing surge prevention – 750-65-49-M5/M5M/M5L
 - Relief override – 750-65-3Q-M5/M5M/M5L
 - Hydraulic float backup – 750-65-66-M5/M5M/M5L
 - Altitude pilot backup – 750-65-80-M5/M5M/M5L
- See relevant BERMAD publication

Typical Installation





Main Valve

- Valve Pattern:** Globe
- Size Range:** DN 500-900; 20"-36"
- Pressure Rating:** 25 bar; 400 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

- 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

- Float Switch:**
- Max. Current:** 16A @ 250V
- Fluid Specific Weight:** 0.95-1.1
- Working Temperature:** Water up to 65°C; 140°F
- Dimensions:** Length – 124 mm; 4.9" Width – 90 mm; 3.5" Cable length – 4.9 m; 16 ft

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/10psi. 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](http://www.bermad.com) website.

