

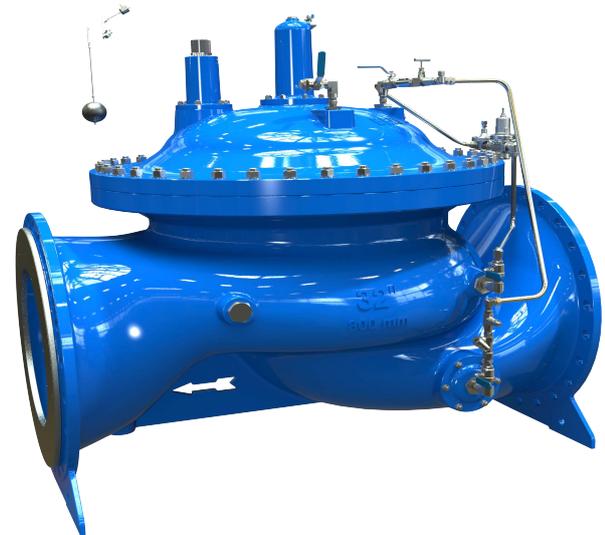
# LEVEL & FLOW CONTROL VALVE

with Bi-Level Vertical Float

**Model 757-66-M5/M5L/M6**

Hydraulically operated control valve that controls reservoir filling and reservoir level. During filling, the valve limits the flow to a pre-set maximum, regardless of fluctuating upstream pressure or reservoir level and protects the valve from cavitation damage.

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](#)



## 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)

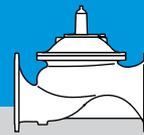
## Major Additional Features

- Closing surge prevention – 757-66-49-U-M5/M5L/M6
  - Hydraulic float backup – 757-66-65-U-M5/M5L/M6
  - Altitude pilot backup – 757-66-80-U-M5/M5L/M6
  - Independent Check Feature – 757-66-2S-M5/M5L/M6
- See relevant BERMAD publication

## Typical Installation



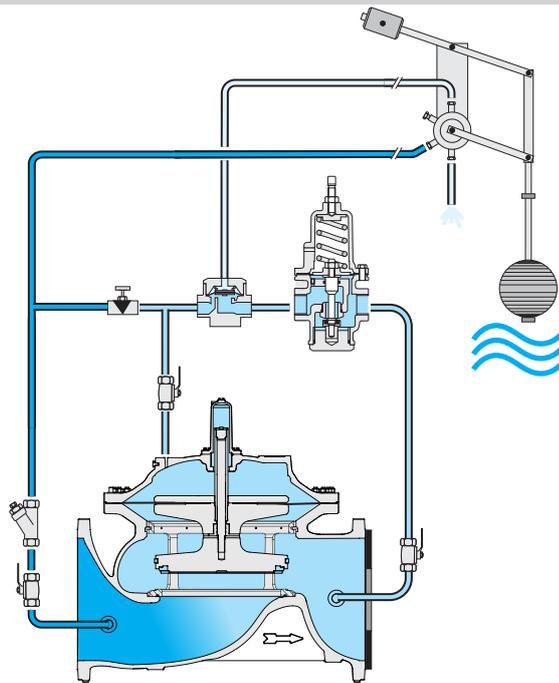
All images in this catalog are for illustration only



Model 757-66-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

#### 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

#### Pilot Options:

Various pilots and calibration springs are available. Select according to valve size and operating conditions. For more details check pressure reducing pilots' product page.

#### Orifice Assembly

**Body:** Fusion Bonded Epoxy Steel or Stainless Steel  
**Orifice Plate:** Stainless Steel

### Notes

- Inlet pressure, outlet pressure and flow rate are required for optimal sizing and cavitation analysis
- Recommended continuous flow velocity: 0.1-6.0 m/sec; 0.3-20 ft/sec
- Minimum operating pressure: 0.7 bar; 10 psi. For lower pressure requirements consult factory.
- See BERMAD float installation recommendation

