

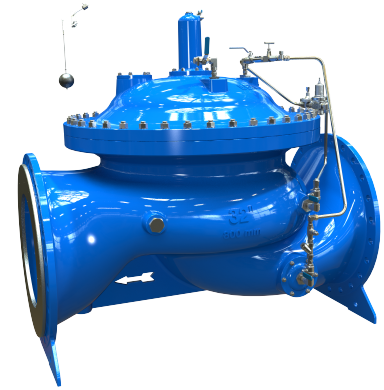
# LEVEL AND FLOW CONTROL VALVE

## with Bi-Level Vertical Float

### Model 757-66-U-M5-M5M

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. Reservoir filling is in response to a hydraulically controlled non-modulating bi-level vertical float that opens at a pre-set reservoir low level and shuts off drip-tight 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.



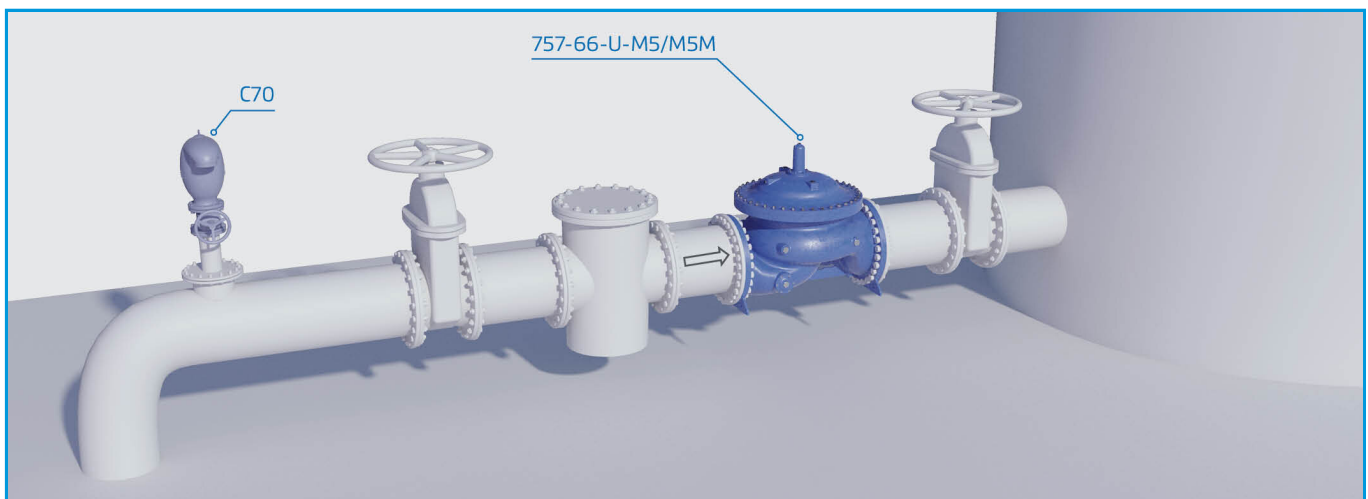
#### Features & Benefits

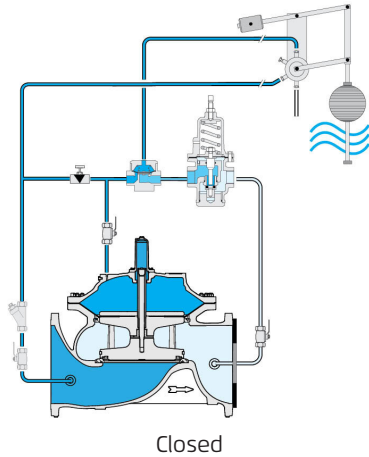
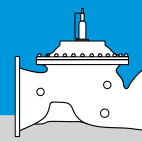
- Hydrodynamic wide globe valve body provides:
  - Higher flow coefficient (Kv; Cv) than standard globe valves
  - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can 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

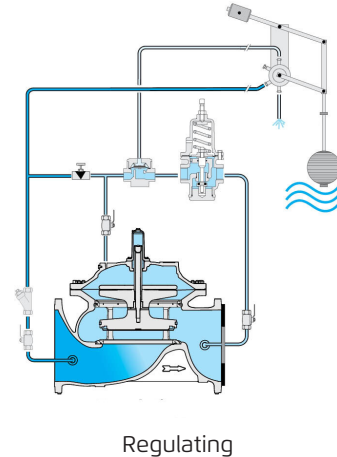
- Reservoir filling flow control and cavitation prevention
- Bi-Level control for water refreshment

#### Typical Installation





Closed



Regulating

## Main Valve

**Size Range:** 20"-24"; DN500-600

**Pattern:** Globe

**Pressure Rating:** 25 bar

**End Connection:** Flanged

**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

### Float standard materials:

**Pilot Body:** Brass

**Elastomers:** NBR

**Internal Parts:** Stainless Steel 316 & Brass

**Lever System:** Brass

**Float:** Plastic

**Float Rod:** Stainless Steel 316

**Base Plate:** Stainless Steel 316

### Float optional materials:

**Metal Parts:** Stainless Steel 316

**Elastomers:** EPDM

### Pilot Options:

Various pilots and calibration springs are available. Select according to valve size and operating conditions. For more details check relevant pilots product pages.

**Orifice Standard Material:** POM-C or Stainless Steel

## Notes

- Orifice diameter is calculated for each valve.
- Flow Setting Range: (-)15% and (+)25% from predetermined flow.
- Orifice adds 20-32mm; 0.8"-1.2" to valve length.
- 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.
- Inlet Pressure, Outlet Pressure and Flow-rate are required for optimal sizing and cavitation analysis.
- 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)

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