

LEVEL AND FLOW CONTROL VALVE

With 3-Way Altitude Pilot

Model 757-80-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. The valve shuts off at a pre-set reservoir high level and fully opens in response to an approximately one meter (3 ft) level drop, as sensed by the 3-Way altitude pilot mounted on the main valve.

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.



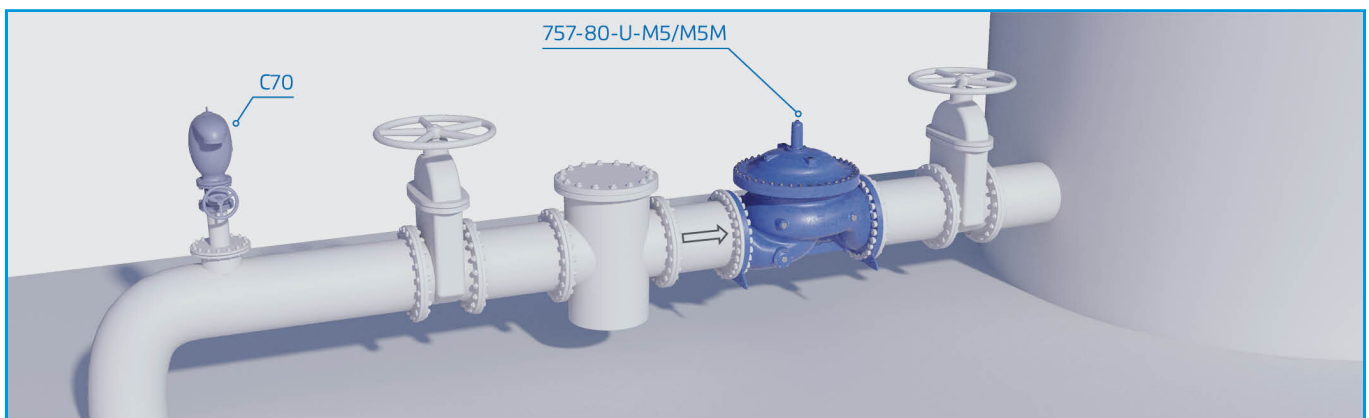
Features & Benefits

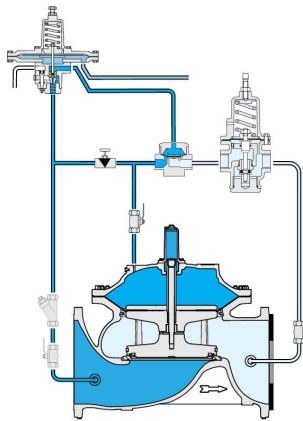
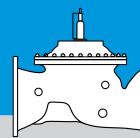
- Hydrodynamic wide globe valve body provides:
 - Higher flow coefficient (Kv; Cv) than standard globe valves
 - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can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

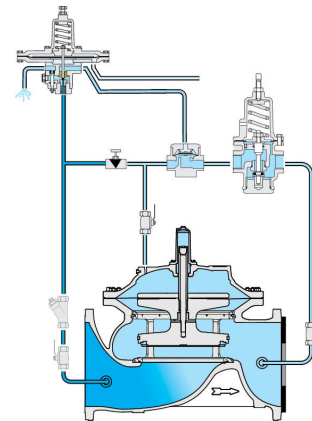
- Municipal systems - Level control for water towers and elevated reservoirs
- Reservoir filling flow control and cavitation prevention
- Bi-Level control for water refreshment
- District Cooling Plants (DCP) - Process control

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

Pilot standard materials:

Body & Cover: Brass or Stainless Steel 316

Elastomers: Synthetic Rubber

Spring: Stainless Steel or Galvanized Steel

Internal Parts: Stainless Steel & Brass

Diaphragm Covers: Fusion Bonded Epoxy Coated Steel or Stainless Steel

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.

Altitude Adjustment Range:

Code	Meter	Feet
M1	2-6	7-20
M6	2-14	7-46
M5	5-22	17-72
M4	15-35	49-115
M8	25-70	82-230

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.
- Shut-off level repeatability: 100mm; 4";
- Re-opening level: approx. 1m; 3ft below shut-off level.
- Inlet Pressure, Outlet Pressure and Flow-rate are required for optimal sizing and cavitation analysis.
- 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.

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



www.bermad.com

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