

LEVEL & FLOW CONTROL VALVE

with 3-Way Altitude Pilot

Model 757-80-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 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 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](#)



HOME VIEW

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)

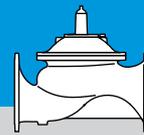
Major Additional Features

- Modulating altitude control – 757-82-M5/M5L/M6
 - Pressure sustaining – 753-80-X-M5/M5L/M6
 - Bi-directional flow – 757-87-X-M5/M5L/M6
 - Closing surge prevention – 757-80-49-X-M5/M5L/M6
 - Bi-level altitude control – 757-86-M5/M5L/M6
 - Independent Check Feature - 710-2S -M5/M5L/M6
- See relevant BERMAD publication

Typical Installation



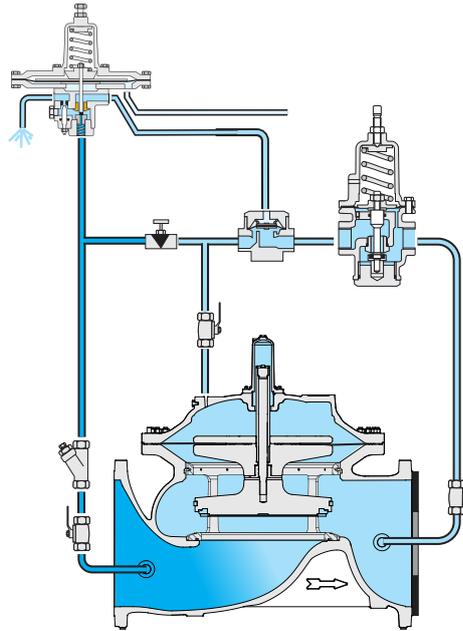
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Model 757-80-M5/M5L/M6

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

Pilot Standard Materials:

Body & Cover: Brass or Stainless Steel
Elastomers: Synthetic Rubber
Spring: Stainless Steel or Galvanized Steel
Internal Parts: Stainless Steel
Diaphragm Covers: Fusion bonded Epoxy Coated Steel or Stainless Steel

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 Assembly

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

Notes

- Orifice diameter is calculated for each valve.
- Orifice assembly adds 20-25mm ; 3/4"-1" to valve length
- Shut-off level repeatability: 100 mm; 4".
- Re-opening level: approx. 1m; 3ft below shut-off level.
- 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: 0.7bar/10psi. For lower pressure requirements consult factory.

