

LEVEL CONTROL AND PRESSURE SUSTAINING VALVE

With 3-Way Altitude Pilot

Model 753-80-M5/M5L/M6

Hydraulically operated, level control and pressure sustaining control valve that controls reservoir filling and reservoir level. During filling the valve sustains minimum upstream pressure regardless of fluctuating flow or reservoir level.

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](#)



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:

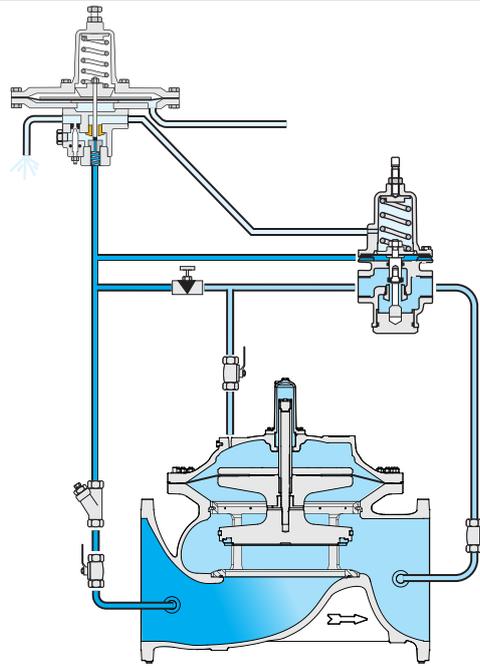
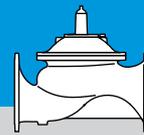
- Modulating altitude control – 753-82-M5/M5L/M6
- Flow control – 757-80-XU-M5/M5L/M6
- Bi-directional flow – 753-87-X-M5/M5L/M6
- Closing surge prevention – 753-80-49-X-M5/M5L/M6
- Bi-level altitude control – 753-86-M5/M5L/M6
- Independent Check Feature – 753-80-2S-M5/M5L/M6

See relevant BERMAD publication

Typical Installation



All images in this catalog are for illustration only



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

Notes

- 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: 0.7 bar /10 psi. For lower pressure requirements consult factory.

