

# LEVEL CONTROL VALVE

with Altitude Pilot

## Model 750-80-M5/M5L/M6

Hydraulically operated control valve that controls reservoir filling and reservoir level. The valve shuts off at a pre-set reservoir high level and fully opens in response to an approximately one meter (3ft) 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 "25".



[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)

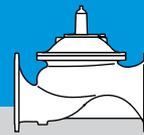
### Major Additional Features:

- Modulating altitude control – 750-82-M5/M5L/M6
- Pressure sustaining – 753-80-X-M5/M5L/M6
- Flow control – 757-80-XU-M5/M5L/M6
- Bi-directional flow – 750-87-X-M5/M5L/M6
- Full powered opening & closing – 750-80-BX-M6
- Closing surge prevention – 750-80-49-X-M5/M5L/M6
- Bi-level altitude control – 750-86-M5/M5L/M6
- Independent Check Feature – 750-80-2S-M5/M5L/M6  
See relevant BERMAD publication

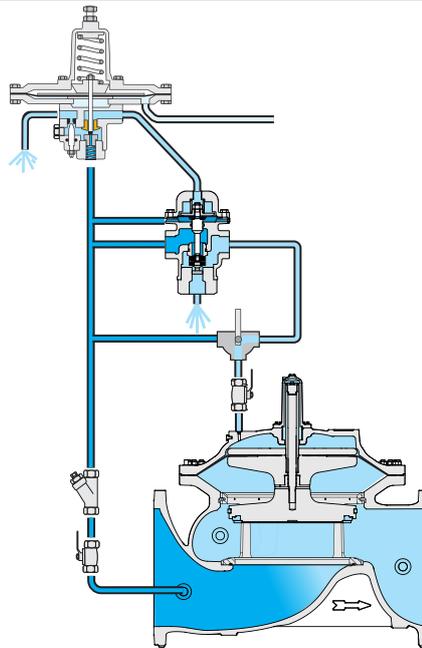
### Typical Installation



All images in this catalog are for illustration only



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### 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.

