

LEVEL CONTROL VALVE

With Altitude Pilot

Model 750-80

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 (3 ft) level drop, as sensed by the 3-Way altitude pilot mounted on the main valve.

The BERMAD 700 SIGMA EN/ES series valves are hydraulic globe valves with a raised seat and double chamber actuator. They provide unobstructed flow, effective high-pressure modulation, and minimal cavitation, complying with various potable water standards.



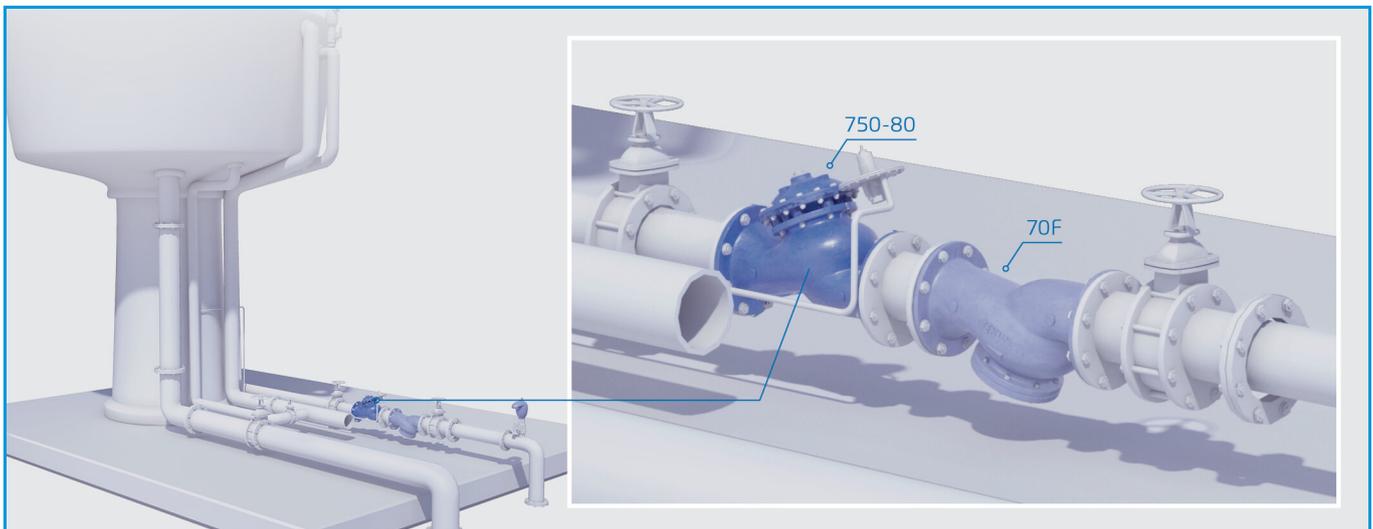
Features & Benefits

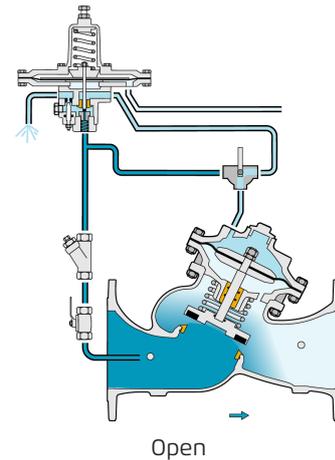
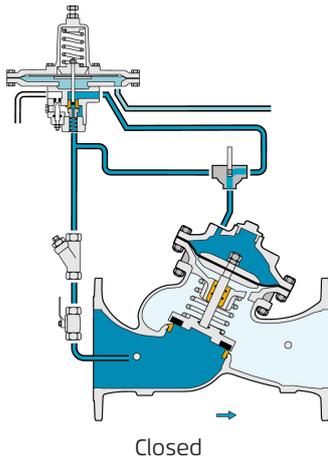
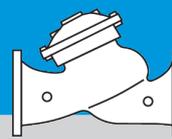
- Designed to - Stand up to the toughest conditions
 - Excellent anti-cavitation properties
 - Wide flow range
 - High stability and accuracy
 - Drip tight sealing
- Double chamber design
 - Moderated valve reaction
 - Protected diaphragm
 - Optional operation in very low pressure
 - Moderated closing curve
- Flexible design - Easy addition of features
- Obstacle free flow pass
- V-Port throttling plug (optional) - Very stable at low flow
- Compatible with various standards
- High quality materials
- In-line serviceable - Easy maintenance

Typical Applications

- Municipal systems - Level control for water towers and elevated reservoirs
- Bi-Level control for water refreshment and silent operation
- Potable water and fire protection
- Irrigation infrastructure - ESR (Elevated Storage Reservoirs)

Typical Installation





This drawing refers to 1½ – 8”; 40-200 mm sized valves only. For other sizes please refer to the Model’s IOM.

Main Valve

Size Range:

EN Series: 1½"-16"; DN40-400

ES Series: 2½"-24"; DN65-600

Pattern: "Y" (globe)

Pressure Rating: 250 psi; 400 psi

End Connection: Flanged

Plug Types: Flat disc, V-port, Cavitation cage

Temperature Rating: 180°F

For 140–180°F consult factory

Standard Materials:

Body & Cover: Ductile Iron

Bolts, Nuts & Studs: Stainless Steel

Internals: Stainless Steel, Tin Bronze, Coated Steel & POM

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

Tubeing: 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

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: 100mm; 4”±0.4”;
- 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.

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