

LEVEL CONTROL VALVE

with Bi-Level Vertical Float and Indicator

Model 750-66

Hydraulically operated control valve that controls reservoir filling and reservoir level. Reservoir filling is in response to a hydraulically controlled non-modulating bi-level vertical float that opens at a pre-set reservoir low level and shuts off drip-tight at a pre-set high level.

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.



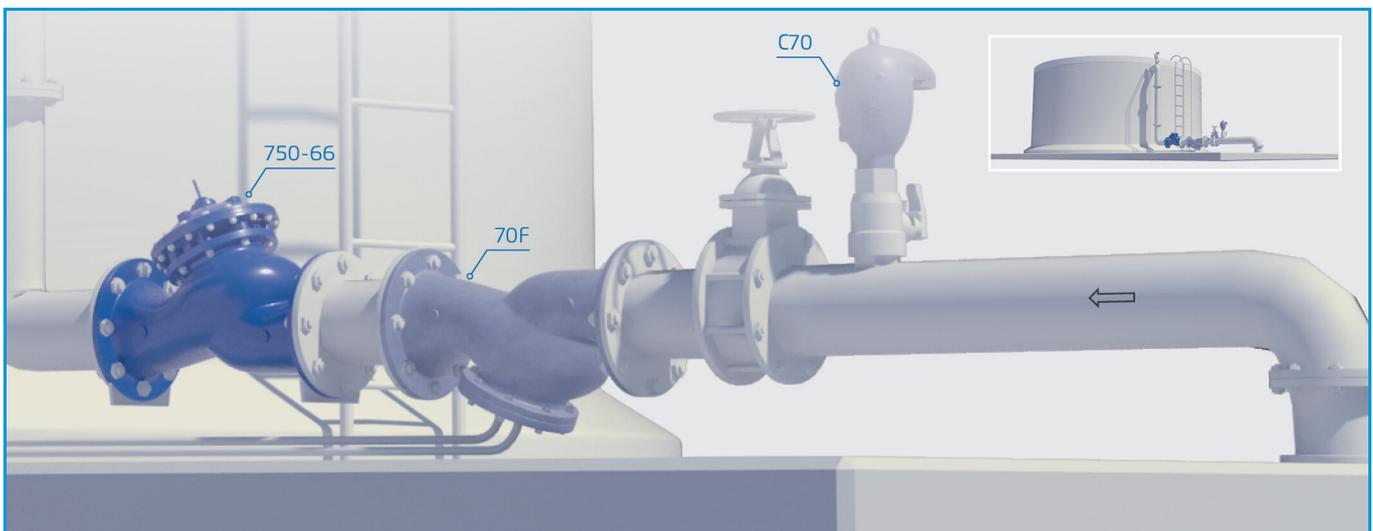
Features & Benefits

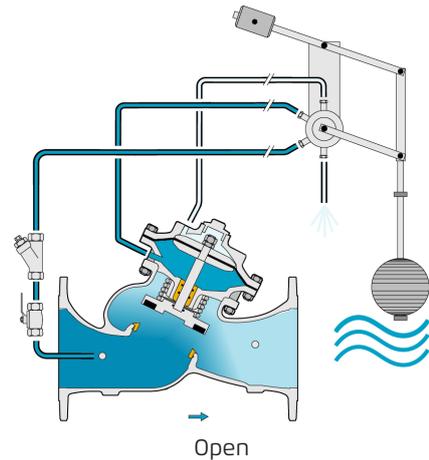
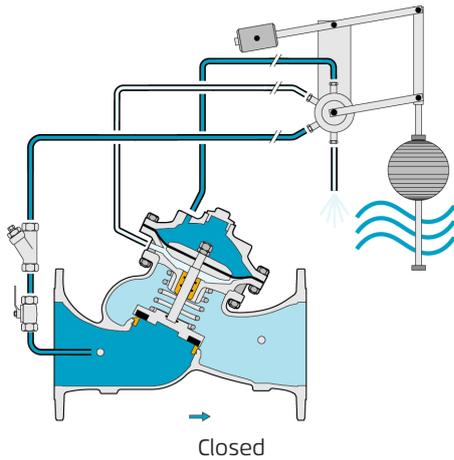
- Designed to - Stand up to the toughest conditions
 - Excellent anti-cavitation properties
 - Wide flow range
 - High stability and accuracy
 - Drip tight sealing
- Double chamber design
 - Moderated valve reaction
 - Protected diaphragm
 - Optional operation in very low pressure
 - Moderated closing 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

- Level control for water reservoirs
- Bi-Level control for water refreshment and silent operation
- Potable water, fire protection and grey water

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: 16 bar; 25 bar

End Connection: Flanged

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

Temperature Rating: 80°C

For 60–80°C 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

Tubing: Stainless Steel or Copper

Fittings: Stainless Steel or Brass

Float standard materials:

Pilot Body: Brass

Elastomers: NBR

Internal Parts: Stainless Steel 316 & Brass

Lever System: Brass

Float: Plastic

Float Rod: Stainless Steel 316

Base Plate: Stainless Steel 316

Float optional materials:

Metal Parts: Stainless Steel 316

Elastomers: EPDM

Notes

- Each extension rod adds 560 mm; 22". One extension rod is supplied.
- Extra counterweight is required if second extension rod is used.
- If inlet pressure is below 0.5 bar / 7psi or above 10 bar /150 psi, consult factory.
- Inlet Pressure, Outlet Pressure and Flow-rate are required for optimal sizing.
- Recommended maximum flow velocity: 6.0 m/sec; 20 ft/sec.
- See BERMAD float installation recommendation.

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