



## Level Control Valve with Altitude Pilot

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 (three feet) level drop, as sensed by the 3-Way altitude pilot mounted on the main valve. BERMAD 700ES series valves are hydraulically operated globe valves in standard oblique (Y) pattern with hydrodynamic body providing an unobstructed flow path, with seat assembly and double chamber unitized actuator that can be disassembled from the body as a separate integral unit. The 700ES valves have an excellent and highly effective modulation capacity for high differential pressure applications, and are designed to operate with minimal cavitation and noise under difficult operation conditions.



For illustration only

### Typical Application

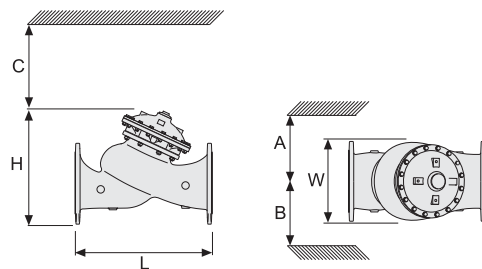
- Level control in water reservoirs of buildings, including basement and roof-top reservoirs, pressure breaking tanks, emergency water storage, and so on
- Priority and backup management of reservoirs
- In reservoirs located few floors above the control valve where hydraulic float cannot be used
- Where engineering considerations force the installation of narrow and tall reservoirs that therefore cannot be controlled by hydraulic float

## Features and Benefits

- Excellent quality construction materials ensure reliable, resilient and long lasting operation
- Durable, sophisticated and lightweight design ensure minimal cavitation damage and noise even under difficult and highly intensive operation conditions
- Hydrodynamic body and high performance actuator provide an unobstructed flow path with minimal pressure loss and outstanding modulation capability under conditions of high differential-pressure operation
- Double chamber actuator, fully operational under very low pressure conditions including optional full opening & closing action under zero line pressure; provides smooth, immediate valve response with no hammer effect.
- Near maintenance-free straightforward balanced design including an actuator that can be easily disassembled from the valve body as a separate integral unit for minimal downtime.
- Ensures uninterrupted supply to building occupants dependent on the reservoir system for their water needs
- Heavy duty design - suitable for intensively operating water reservoirs
- Unique level sensing device; the valve performance does not affected by the difference in altitude between the valve and the reservoir
- Level sensing with no moving parts, no float needed - no waves' effect and corrosion, enabling easy inspection, calibration and maintenance

## Technical Data

Table		Kv	A, B (mm)	C (mm)	L (mm)	H (mm)	W (mm)	Weight (kg)
DN	inch							
50	2"	50	350	180	230	250	250	10.8
80	3"	65	370	180	310	260	260	15
100	4"	150	395	230	350	320	320	26
150	6"	360	430	275	480	390	390	55
200	8"	620	475	385	600	507	507	95



## End Connections:

**Flanged:** ISO 7005-2 (ISO 10, 16 & 25)

**Pressure Rating:** 16, 25 bar (230, 362 psi)

**Valve Pattern:** Y

**Working Temperature:** Water up to 80°C (180°F)

## Main Construction Materials:

**Body, Cover and Actuator:** Ductile iron to EN 1563 or ASTM A-536

**Internals:** Stainless steel, bronze & epoxy coated steel

**Control Trim System:** Brass control components / accessories

Copper & Brass tubing & fittings

Optional: Stainless Steel 316

**Elastomers:** Synthetic Rubber

**Coating / Colour:** Electrostatic Polyester Powder Blue

Optional: Epoxy Fusion-Bonded Blue

For other optional materials consult BERMAD

## How to Order

Please specify the requested valve in the following sequence:

Size	Model	Category	End Connections
<div>2"</div> <div>3"</div> <div>4"</div> <div>6"</div> <div>8"</div>	750ES-80	BP	<div>ISO-16 16</div> <div>ISO-25 25</div> <div>ABNT16 B6</div> <div>ABNT25 B2</div> <div>ANSI150 A5</div>