



Level Control Valve with Bi-Level Vertical Float

Hydraulically operated control valve that controls reservoir filling and reservoir level in buildings' water supply systems of heating and cooling facilities.

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.

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

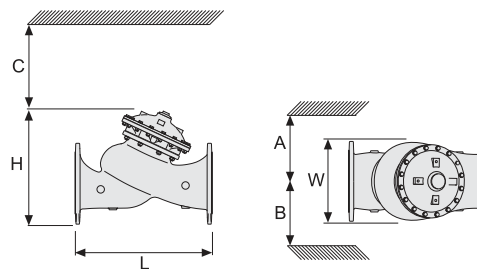
- Cooling towers applications; level control of make-up water and bleed water collection tanks
- Closed-loop heating/cooling systems; open tanks level control
- Heating/cooling systems; level control of treated water feeding tanks
- Out of tank installation; level control in limited access or remote sites

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.
- Removable seat assembly offers easy on-site inline maintenance
- Hydraulic operation requires no electricity
- 4-way float control provides powered opening under conditions of extremely low pressure, allowing smooth and quiet water flow

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-66	BE	<div>ISO-16 16</div> <div>ISO-25 25</div> <div>ABNT16 B6</div> <div>ABNT25 B2</div> <div>ANSI150 A5</div>