

## Level Control Valve with Bi-Level Vertical Float

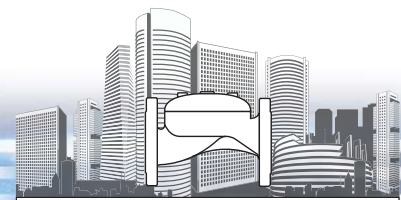
Hydraulically operated control valve that controls reservoir filling and reservoir level in building potable water systems. Reservoir filling is in response to a hydraulically controlled Bi-level vertical float that opens at a pre-set reservoir low level and shuts off at a pre-set high level, regardless of valve differential pressure. BERMAD 400 series valves are hydraulically operated, simple and reliable, globe valves with full bore hydrodynamic body providing an unobstructed flow path and superior performance. The valves balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valves only moving part.



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 others
- Priority and backup management of reservoirs
- Complete closing of the valve by external control source regardless of supply line pressure
- Out of tank installation; level control in limited access or remote sites

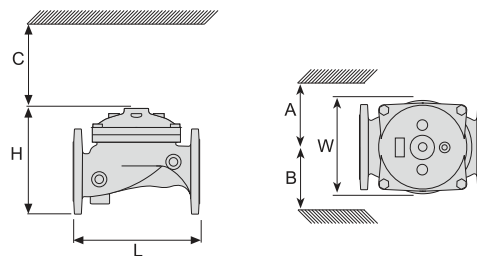


### Features and Benefits

- High quality construction materials ensure reliable, long lasting operation
- Full bore valve port area and hydrodynamic body ensure unobstructed flow path; minimal pressure loss with low cavitation damage
- Fully supported and balanced rolling diaphragm – low actuation pressure and excellent low flow regulation performance
- Ensured operation after long standby periods
- Straightforward design of three major components – easy and simple on-site inline maintenance with minimal down time
- Accurate and reliable level control; prevents reservoir overflows and cut-offs
- Specially designed for emergency water reservoirs where long standby periods are expected
- 3-way float control provides powered closing under low pressure conditions
- Out-of-tank installation minimizes wave effects and corrosion, enables easy inspection, calibration and maintenance

### Technical Data

Size		Kv	A,B	C	L	H	W			Weight (kg)	
DN	Inch						Thr	Fla	Gro	Th/Fl	Gro
50	2"	57	330	68	205	155	119	155	119	9	5
65	2½"	78	340	110	205	178	129	178	n/a	10.5	10.5
80	3"	136	350	125	250	210	170	200	170	19	10.6
100	4"	204	360	145	320	242	n/a	223	204	28	16.2
150	6"	458	400	205	415	345	n/a	306	306	68	49
200	8"	781	430	260	500	430	n/a	365	n/a	125	125



### End Connections:

- Grooved:** ANSI C606
- Flanged:** ISO 7005-2 (PN10 & 16); ANSI B16.42 (#150)
- Threaded:** ISO-7-Rp or NPT
- Others:** Available on request
- Pressure Rating:** 16 bar (230 psi)
- Valve Pattern:** Globe & Angle (2"-4")
- Working Temperature:** Water up to 60°C (140°F)

### Main Construction Materials:

- Body, Cover and Actuator:** Ductile Iron
- Internals:** Stainless Steel & Elastomer
- Control Trim System:** Brass control components / accessories
- Copper & Brass tubing & fittings
- Optional: Stainless Steel 316
- Elastomers:** Nylon fabric Reinforced NR with rugged insert
- 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
2"	450-66	BP	Flanged ISO-16 16
2½"			ANSI-150 A5
3"			ABNT-16 B6
4"			Threaded BSP BP
6"			NPT NP
8"			Grooved ANSI C606 V1



For full technical specifications, see Engineering section or consult BERMAD

[info@bermad.com](mailto:info@bermad.com) • [www.bermad.com](http://www.bermad.com)

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