



LEVEL CONTROL VALVE

with Bi-Level Vertical Float

Model BC-450-66-P

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.



Water Reservoir Level Control System, featuring the BC-450-66-P that control high and low water level in the reservoir. As backup, another level control valve is stationed upstream and calibrated to a slightly

higher water level. The backup valve can be specified to operated hydraulically (another BC-450-66-P) or electrically (BC-450-65-P).

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
- 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 three major components design - 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

General:

End connections:

- Grooved: 2", 3"-8"
- Flanged: 1½"-14"
- Threaded: 1½"-3"

Pressure Rating: 230 psi; PN16

Valve Pattern: Y (Oblique) / Angle

Working Temperature:

Cold Water up to 122°F; 50°C

Optional Higher Temperatures:

Available on request

Main Valve Materials:

Body, Cover and Partition:

- Standard: Ductile Iron
- Optional: Stainless Steel 316

Spring: Stainless Steel

Diaphragm Assembly:

- NR / EPDM with Reinforcing Vulcanized Radial Seal Disk:
- 1½"-6": Plastic
- 8"- 10": Iron
- 12"-14": Iron with St.St Upper Guide

Coating: Blue Fusion bonded epoxy

Control Trim Materials:

Control Accessories:

- Stainless Steel / Bronze & Brass
- NBR / EPDM

Tubing: Stainless Steel / Copper

Fittings: Stainless Steel / Brass

* For other optional material consult BERMAD.

** Materials may vary according to sanitary standard.

How to Order

Please Specify the requested valve in the following sequence:

BERMAD Segment	Size ¹	Model	Approval Group	End Connections & Pressure Rating	Ordering code would be
BC	3"	450-66	P0	16	BC-3"-450-66-P0-16
Buildings & Constructions	Inch mm	Potable Water ²	Up to 250 psi / PN16		
	1½" 40	European Standards	Grooved	ANSI C606	VI
	2" 50	NSF 61/372		ISO-6182-12	VB
	2½" 65	Australia Standards	Flanged	ISO-16	16
	3" 80	Unregistered		ABNT16	B6
	4" 100			ANSI 150	A5
	6" 150			AST-*	S*
	8" 200			BSP	BP
	10" 250			NPT	NP
	12" 300				

1. Larger sizes available on request
2. BERMAD complies with a wide range of international potable water standards. Please consult with BERMAD about compliance.

