LEVEL CONTROL VALVE

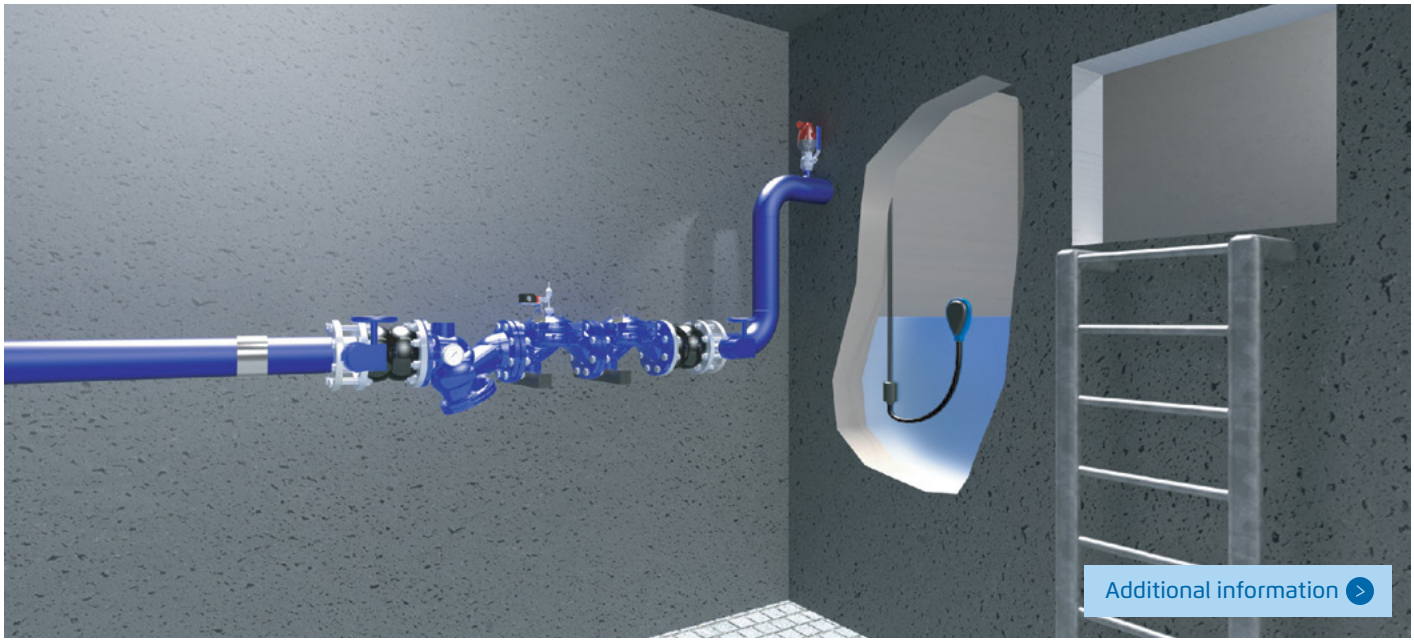
with Bi-Level Electrical Float

Model BC-450-65-P

Hydraulically operated control valve that controls reservoir filling and reservoir level.

Reservoir filling is in response to a Bi-level electric float switch signal opening at a pre-set low level and shutting off at a pre-set high level.

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-450-65-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 (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
- Electrical emergency override in hydraulic level control systems
- Duty cycle and valve prioritizing management in multi-branch systems

All images in this catalog are for illustration only

BERMAD Buildings & Construction

400 Series

Potable Water • Level Control

Model BC-450-65-P

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
- Line Pressure Driven - Independent operation, no external power needed aside of the solenoid low voltage control
- Electrical operation; low voltage and low current NO and NC solenoids
- 3-way solenoid control provides powered closing under low pressure conditions
- Specially designed for emergency water reservoirs where long standby periods are expected
- Ensures uninterrupted supply to building occupants dependent on the reservoir system for their water needs

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:
Avaliable 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
Solenoid:
Body: Stailness Steel / Brass
Elastomers: NBR or FPM
Enclosure: Molded Epoxy

* 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	Solenoid
BC	3"	450-65	P0	16	4AC

Ordering code would be: BC-3"-450-65-P0-16-4AC

BERMAD Segment

BC	Buildings & Constructions

Size[1]

Inch	mm
1½"	40
2"	50
2½"	65
3"	80
4"	100
6"	150
8"	200
10"	250
12"	300

Model

450-65

Approval Group

Potable Water[2]	
European Standards	P1
NSF 61/372	P2
Australia Standards	P3
Unregistered	P0

End Connections & Pressure Rating

Up to 250 psi / PN16		
Grooved	ANSI C606	VI
	BS 1378	VB
Flanged	ISO-16	16
	ABNT16	B6
	ANSI 150	A5
	AST-*	S*
Threaded	BSP	BP
	NPT	NP

Solenoid

Solenoid Configuration			
24V[4]	Normally Closed[3]	AC 50Hz	4AC
		AC 60Hz	46C
		DC	4DC
	Normally Open[3]	AC 50Hz	4AO
		AC 60Hz	46O
		DC	4DO

1. Larger sizes available on request
2. BERMAD complies with a wide range of international potable water standards.Please consult with BERMAD about compliance.
3. Valve Position when Solenoid is De-Energized
4. Other voltage available.

Additional Configurations & Options >

Bulgarkontrola Bulgaria | ACS France | GOST Russia | PZH Poland