



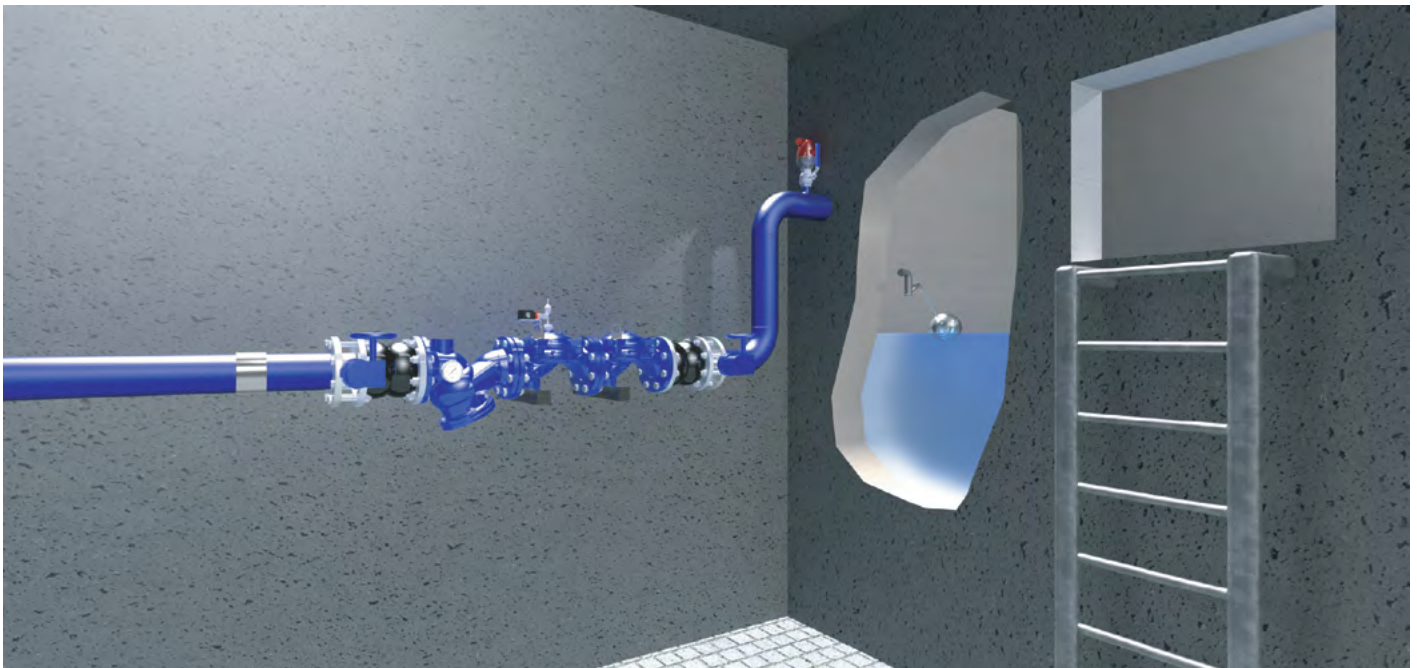
LEVEL CONTROL VALVE

with Modulating Horizontal Float

Model 450-60

Hydraulically operated control valve that controls reservoir filling and reservoir level. Reservoir filling is accomplished in response to a hydraulically controlled modulating horizontal float that maintains a constant water level, regardless of fluctuating demand.

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 450-60 that maintains constant 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 operate hydraulically (450-66) or electrically (450-65).

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
- Constant level control systems where maintaining full tank level is required
- Level control of undersized tanks in potable water systems in buildings



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
- Easy to horizontally mount and calibrate lightweight float; simple installation and maintenance, long-lasting smooth and reliable operation
- 2-Way control loop - maintains accurate and stable reservoir level; specially suitable for large surface / low depth tanks
- Straightforward control loop structure with minimal use of accessories and tubing - prevents breakdowns, overflows and vandalism

Technical Data

General:

End connections:

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

Pressure Rating: 250 psi; PN16

Valve Pattern: Globe / 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

Solenoid:

Body: Stainless Steel / Brass
Elastomers: Synthetic Rubber
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:

BC - 2" - 450-60 - P2 - G - C **16 - EB** **4AC - CB** **C**

Segment	Model	Orientation	Code	End Connection	Standard	Code	Solenoid Voltage	Code	Additional Attributes (Multiple Options Permitted)	Code
BC	450-60	Globe	G	Grooved	ANSI C606	VI	No Solenoid	000	Valve Position Indicator	I
		Angle	A		BS 1387	VB	24VAC/50Hz	4A	Limit Switch	S
				Flanged	ISO-16	16	24VAC/60Hz	46	St.St. 316 All Control Accessories	N
				(Other standards available)	ABNT16	B6	24VDC	4D	Pressure Gauge	6
				Threaded	ANSI 150	A5	220VAC/50-60Hz	2A	Orifice Assembly	U
					AST-*	S*	220VDC	2D	Large Control Filter	F
					BSPT	BP	110VAC/50-60Hz	5A	In Line Filter	C
					NPT	NP	110VDC	5D		
							12VDC	1D		

Size	Potable Compatibility	Code	Construction Material	Code	Coating	Code	Main Valve Position (When Solenoid De-energized)	Code	Tubings & Fittings	Code
1½" DN40	European Standards	P2	Ductile Iron	C	Epoxy Blue	EB	Normally Closed	C	Copper Tubing & Brass Fittings	CB
2" DN50	Unregistered	PO			Epoxy Blue with UV Protection	EV	Normally Open	O	Stainless Tubing & Fittings	NN
2½" DN65							Last Position	P		
3" DN80							Latch Solenoid	S		
4" DN100										
6" DN150										
8" DN200										
10" DN250										
12" DN300										
14" DN350										



Bulgarkontrola
Bulgaria



ACS
France



GOST
Russia



PZH
Poland



PUB
Singapore

Manufactured and Tested According to
AWWA C530-12 Requirements

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