LEVEL CONTROL AND PRESSURE SUSTAINING VALVE

with Bi-Level Vertical Float

Model BC-453-66-P

Hydraulically operated level control and pressure sustaining control valve that controls reservoir filling and reservoir level; during filling the valve sustains minimum upstream pressure, regardless of fluctuating flow or reservoir level.

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-453-66-P that control high and low water level in the reservoir in addition to sustaining up stream pressure to prioritize other consumers over reservoir filling. 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 and pressure sustaining control of reservoir filling systems in buildings, including basement, roof-top, pressure breaking and emergency tanks, where the supply line also feeds additional high priority users.
- Priority and backup management of reservoirs
- Out of tank installation; level control in limited access or remote sites

All images in this catalog are for illustration only

BERMAD Buildings & Construction

400 Series

Potable Water • Level Control

Model BC-453-66-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
- Accurate and reliable level control and pressure sustaining capabilities - preventing reservoir overflows and cut-offs while maintaining minimum upstream pressure
- 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:
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

* 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
BC	3"	453-66	P0	16
Buildings & Constructions				

Ordering code would be

BC-3"-453-66-P0-16

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

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

Up to 250 psi / PN16		
Grooved	ANSI C606	VI
	ISO-6182-12	VB
Flanged	ISO-16	16
	ABNT16	B6
	ANSI 150	A5
	AST-*	S*
Threaded	BSP	BP
	NPT	NP

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

Additional Configurations & Options >

Bulgarkontrola Bulgaria | ACS France | GOST Russia | PZH Poland

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