BERMAD Buildings & Construction

Potable Water • Level Control

LEVEL CONTROL VALVE

with Modulating Vertical Float

Model 450-67

Hydraulically operated control valve that controls reservoir filling and reservoir level. Reservoir filling is accomplished in response to a hydraulically controlled modulating vertical 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 450-67 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 operated 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

400 Series

Model 450-67

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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
- 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

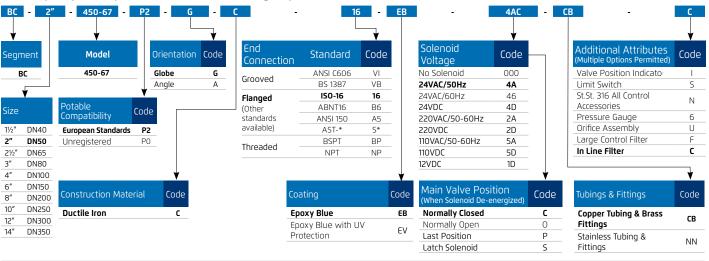
Tubing: Stainless Steel / Copper Fittings: Stainless Steel / Brass Solenoid:

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:





Manufactured and Tested According to AWWA C530-12 Requirements

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Model 450-67