



LEVEL CONTROL **VALVE**

with Bi-Level Vertical Float

Model: WW-450-66

The Model WW-450-66 Level Control Valve with Bi-Level Vertical Float is a hydraulically controlled, diaphragm actuated, double chambered control valve. The valve is hydraulically powered to fully open at pre-set reservoir low level, and to shut off at pre-set high level regardless of valve differential pressure.

- Reservoir filling
 - Low noise generation
 - Energy cost critical systems
 - Systems with poor water quality

Features and Benefits

- Line pressure driven Independent operation
- Bi-Level hydraulic float control
 - On/off service
 - Low cavitation damage
 - Suitable for low quality water
 - Inherent reservoir refreshing
- Flexible design Easy addition of features
- Advanced globe or angle hydro-efficient design
 - Unobstructed flow path
 - Single moving part
 - Non-turbulent flow
 - High flow capacity
- Fully supported & balanced diaphragm
 - Low actuation pressure
 - Progressively restrains valve closing
 - Prevents diaphragm distortion
- External installation
 - Easy access to valve and float
 - Easy Level Setting
 - Less wear and tear
- In-line serviceable
 - Easy maintenance
 - Minimal down time



Major Additional Features

- Pressure sustaining WW-453-66
- Electric float backup WW-450-66-65
- Flow control WW-457-66-U
- Closing surge prevention WW-450-66-49

See relevant BERMAD publications.



Operation

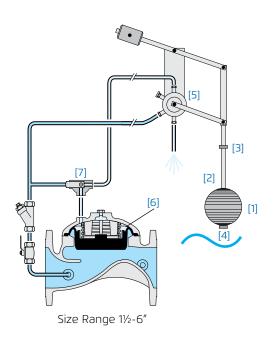
The Model WW-450-66-B is a float controlled valve equipped with a 4-Way, "last position", bi-level float pilot assembly. The float [1] slides along the rod [2]. When the float reaches either the adjustable high [3] or low [4] level stoppers, it either pulls the rod assembly down or pushes it up, switching the float pilot [5] position. When the float is between the adjustable stoppers, the main valve remains in its last position.

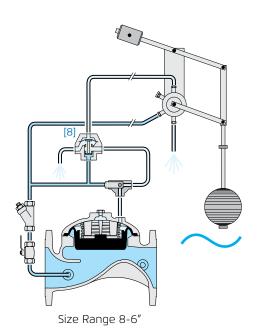
At high level, the float pilot applies pressure to the control chamber [6], shutting off the main valve.

At low level, the float applies vents the control chamber, opening the main valve.

The 3-way Cock Valve [7] enables manual closing of the main Valve.

For 8" (DN200) valves and larger, an accelerator [8] quickens valve response.

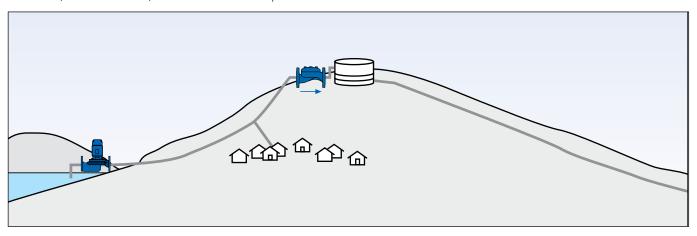




Typical Applications

Reservoirs vary in their characteristics – location, elevation, filling & emptying, flow & pressure, surface area, etc. These various characteristics require various level control valve solutions.

The Model WW-450-65 is the ideal solution for level control in reservoirs – shallow and deep, low and high elevation, rooftop and basement, in water towers, and wherever electric power is available.



For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the BERMAD website.



www.bermad.com