

400 Series

Level Control

Model FP-450-80-BF

## Level Control Valve with Altitude Pilot

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

The valve shuts off at a pre-set reservoir high level and fully opens in response to an approximately one meter (3 ft) level drop, as sensed by the 3-Way altitude pilot mounted on the main valve.

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.

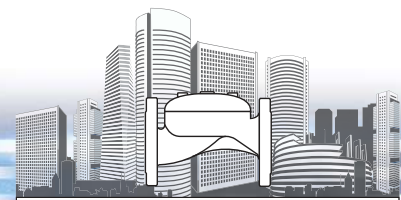
The valves balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valves only moving part.



For illustration only

### Typical Application

- Level control in water reservoirs of buildings, including basement and roof-top reservoirs, pressure breaking tanks, emergency water storage, and so on
- Priority and backup management of reservoirs
- In reservoirs, located few floors above the control valve, where hydraulic float cannot be used
- Where engineering considerations force the installation of narrow and tall reservoirs that therefore cannot be controlled by hydraulic float



400 Series

Level Control

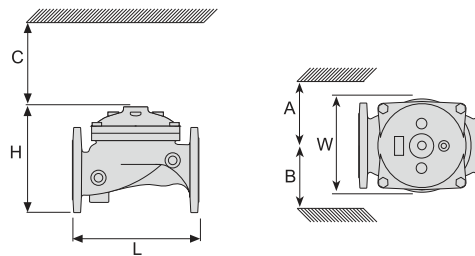
Model FP-450-80-BF

## 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
- Ensures uninterrupted supply to building occupants dependent on the reservoir system for their water needs
- Unique level sensing device; the valve performance does not affected by the difference in altitude between the valve and the reservoir
- Hydraulically operated 3-way altitude pilot (no electricity needed); ensures full opening and closing in low pressure conditions
- Level sensing with no moving parts, no float needed - no waves' effect and corrosion, enabling easy inspection, calibration and maintenance

## Technical Data

Size		Kv	A,B	C	L	H	W			Weight (kg)	
DN	Inch						Thr	Fla	Gro	Th/Fl	Gro
50	2"	57	330	68	205	155	119	155	119	9	5
65	2½"	78	340	110	205	178	129	178	n/a	10.5	10.5
80	3"	136	350	125	250	210	170	200	170	19	10.6
100	4"	204	360	145	320	242	n/a	223	204	28	16.2
150	6"	458	400	205	415	345	n/a	306	306	68	49
200	8"	781	430	260	500	430	n/a	365	n/a	125	125



## End Connections:

**Grooved:** ANSI/AWWA C606

Optional: Flanged ANSI B16.42 (Ductile Iron), ISO PN16

Threaded: NPT or ISO-7-Rp for 2, 2½ & 3"

**Pressure Rating:** Max. inlet: 250 psi (17 bar)

**Valve Pattern:** Globe & Angle (2, 3 & 4")

**Water Temperature:** Water up to 50°C (122°F)

## Main Construction Materials:

**Body, cover & Actuator:** Ductile Iron ASTM A-536

**Control Trim:** System Brass control components / accessories

Copper & Brass tubing & fittings

Optional: Stainless Steel 316

**Elastomers:** Nylon fabric reinforced polyisoprene NR

**Coating / colour:** Electrostatic Powder Coating Polyester Red

For other optional materials consult BERMAD

## How to Order

Please specify the requested valve in the following sequence:

Size	Model	Category	End Connections
2" 2½" 3" 4" 6" 8"	450-80	BF	ANSI C606 V1



For full technical specifications, see Engineering section or consult BERMAD

[info@bermad.com](mailto:info@bermad.com) • [www.bermad.com](http://www.bermad.com)

The information herein is subject to change without notice. BERMAD shall not be held liable for any errors. All rights reserved. © Copyright by BERMAD. PC4BE12-450-80-BF