

400 Series

Level Control

Model FP-450-66-BF

Level Control Valve with Bi-Level Vertical Float

Hydraulically operated control valve that controls reservoir filling and 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.

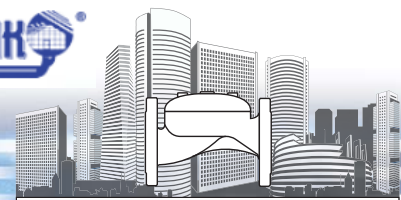
The valves balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valves only moving part.



For illustration only

Typical Application

- Level control of emergency fire protection reservoirs in buildings, including basement and roof-top reservoirs, emergency water storage, etc.
- Priority and backup management of reservoirs
- Independently-set, dual-point, on/off level control; full opening at low level and shut-off at high level, triggered by a float
- Out of tank installation; level control in limited access or remote sites



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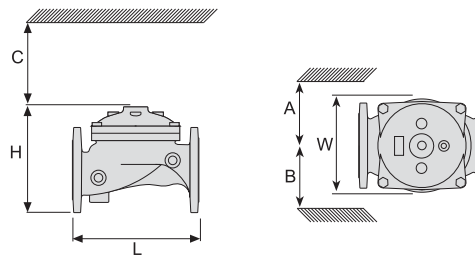
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Features and Benefits

- 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 design of three major components – 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
- Hydraulic operation requires no electricity
- 3-way float control provides powered closing under low pressure conditions

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

Internals: Stainless Steel & Elastomer

Control Trim: System Brass control components / accessories

Copper & Brass tubing & fittings

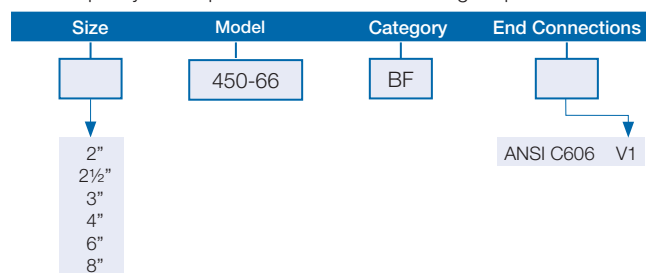
Optional: Stainless Steel 316

Elastomers: Nylon fabric reinforced polyisoprene NR

Coating / colour: Electrostatic Powder Coating Polyester Red

How to Order

Please specify the requested valve in the following sequence:



For other optional materials consult BERMAD



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