



## LEVEL CONTROL VALVE

### with Altitude Pilot

#### Model BC-750-80-P

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 (three feet) level drop, as sensed by the 3-Way altitude pilot mounted on the main valve.

BERMAD 700 series valves are hydraulic, oblique pattern, globe valves with double chamber unitized actuator, that can be disassembled from the body as a separate integral unit. The valve's hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications.



BERMAD BC-750-80-P maintains high and low water levels with high accuracy pilot valve that senses reservoir water level head from a

sensing point at the bottom of the reservoir and controls the main filling valve accordingly.

### 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



## Features and Benefits

- High Quality Construction Materials - Reliable, resilient and long lasting operation
- Robust Design - Suitable for constant, intense operation
- In-Line Serviceable - Quick and easy maintenance and service
- Line Pressure Driven - Independent operation, no external power needed
- Unitized Actuator Assembly - Minimal downtime
- Ensures uninterrupted supply for building occupants dependent on reservoir system for their water needs
- Heavy duty design - suitable for intensively operating water reservoirs
- Unique level sensing device; the valve performance does not affected by the difference in altitude between the valve and the reservoir
- Level sensing with no moving parts, no float needed - no waves' effect and corrosion, enabling easy inspection, calibration and maintenance

## Technical Data

### General:

**End connections:**  
Grooved / Flanged / Threaded  
**Pressure Rating:** 400 psi; PN25  
**Valve Pattern:** Y (Oblique) / Angle  
**Working Temperature:**  
Cold Water up to 140°F; 60°C  
**Optional Higher Temperatures:**  
Available on request

### Main Valve Materials:

**Body, Cover and Partition:**  
Standard: Ductile Iron  
Optional: Stainless Steel 316  
**Seat:** Stainless Steel  
**Internals:**  
Stainless Steel, Tin Bronze & Coated Steel  
**Diaphragm:**  
Fabric-reinforced synthetic rubber  
**Seals:** Synthetic rubber  
**Coating:** Blue Fusion bonded epoxy

### Control Trim Materials:

**Control Accessories:**  
Stainless Steel / Bronze & Brass  
**Tubing:** Stainless Steel / Copper  
**Fittings:** Stainless Steel / Brass

Standard water level above pilot is 2-14m; 7-46 ft, for other options consult Bermad

\* 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 <sup>1</sup>	Model	Series	Approval Group	End Connections & Pressure Rating	Ordering code would be
BC	4"	750-80	EN	P1	16	
Buildings & Constructions	Inch mm		Series	Potable Water <sup>2</sup>	Up to 250 psi / PN16	
	1½" 40		Classic <b>00</b>	European Standards <b>P1</b>	Grooved ANSI C606 <b>VI</b>	
	2" 50		Sigma EN <b>EN</b>	NSF 61/372 <b>P2</b>	BS 1378 <b>VB</b>	
	2½" 65		Sigma ES <b>ES</b>	Australia Standards <b>P3</b>	ISO-16 <b>16</b>	
	3" 80			Unregistered <b>P0</b>	ABNT16 <b>B6</b>	
	4" 100				ANSI 150 <b>A5</b>	
	6" 150				AST-* <b>S*</b>	
	8" 200				Threaded BSP <b>BP</b>	
	10" 250				NPT <b>NP</b>	
	12" 300				250-400 psi / PN25	
					Grooved ANSI C606 <b>V2</b>	
					BS 1378 <b>VB</b>	
				ISO-25 <b>25</b>		
				Flanged ABNT25 <b>B2</b>		
				ANSI 300 <b>A3</b>		
				Threaded BSP <b>PH</b>		
				NPT <b>NH</b>		

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



NSF 61/372 USA



Bulgarkontrola Bulgaria



ACS France



GOST Russia



PZH Poland



DVGW Germany



Watermark Australia



AS 5081 Australia