



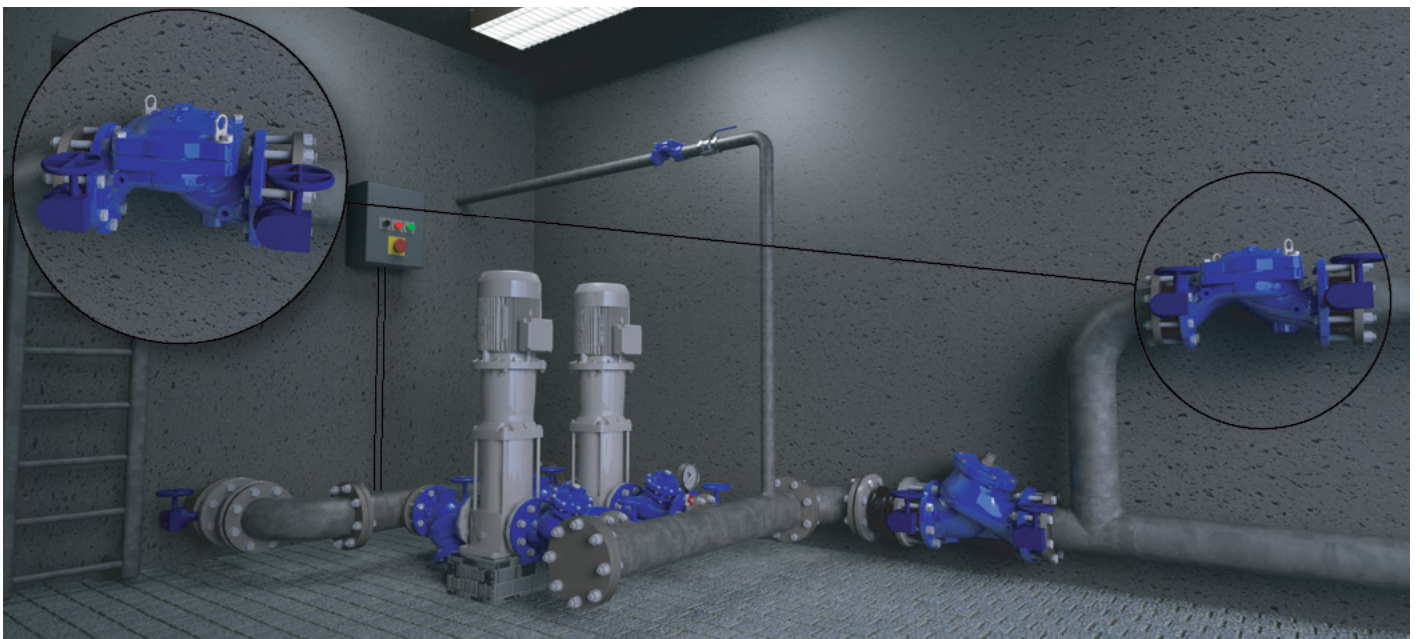
SOLENOID CONTROLLED VALVE

Model BC-410-P

Hydraulically operated, solenoid controlled valve that either opens fully or shuts off in response to an electric signal.

It is available in several models including Normally Open (NO), Normally Closed (NC) or Last Position (LP).

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.



In buildings using an emergency reservoir and routine supply from water main the BC-410-P can be used to block supply from the main and

allow the reservoir water to be supplied and refresh, thus preventing poor sanitary conditions in the reservoir.

Typical Application

- Saving energy while ensuring adequate refreshing of the building reservoir; switching between direct city supply and local pumping station, controlled by an external control regime
- Prioritizing pressurized lines users; disconnecting low priority users, triggered by external control system



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
- Line Pressure Driven - Independent operation, no external power needed aside of the solenoid low voltage control
- Electrical operation; low voltage and low current NO and NC solenoids
- 3-way solenoid control provides powered closing under low pressure conditions
- Integral manual ON/OFF/AUTO solenoid control

Technical Data

General:

End connections:

- Grooved: 2", 3"-8"
- Flanged: 1½"-14"
- Threaded: 1½"-3"

Pressure Rating: 230 psi; PN16

Valve Pattern: Y (Oblique) / 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:** NBR or FPM
- 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:

BERMAD Segment	Size ¹	Model	Approval Group	End Connections & Pressure Rating	Solenoid				
BC	3"	410	P0	16	4AC				
Buildings & Constructions	Inch mm	Potable Water ²		Up to 250 psi / PN16	Solenoid Configuration				
	1½" 40	European Standards	P1	Grooved	ANSI C606 VI	24V ⁴	Normally Closed ³	AC 50Hz	4AC
	2" 50	NSF 61/372	P2	Flanged	BS 1378 VB			AC 60Hz	46C
	2½" 65	Australia Standards	P3		ISO-16	16	DC	4DC	
3" 80	Unregistered	P0	ABNT16	B6	Normally Open ³	AC 50Hz	4A0		
4" 100			ANSI 150	A5		AC 60Hz	460		
6" 150			AST-*	S*		DC	4D0		
8" 200			BSP	BP					
10" 250			NPT	NP					
12" 300									

Ordering code would be

BC-3"-410-P0-16-4AC

1. Larger sizes available on request
2. BERMAD complies with a wide range of international potable water standards. Please consult with BERMAD about compliance.
3. Valve Position when Solenoid is De-Energized
4. Other voltage available.



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