

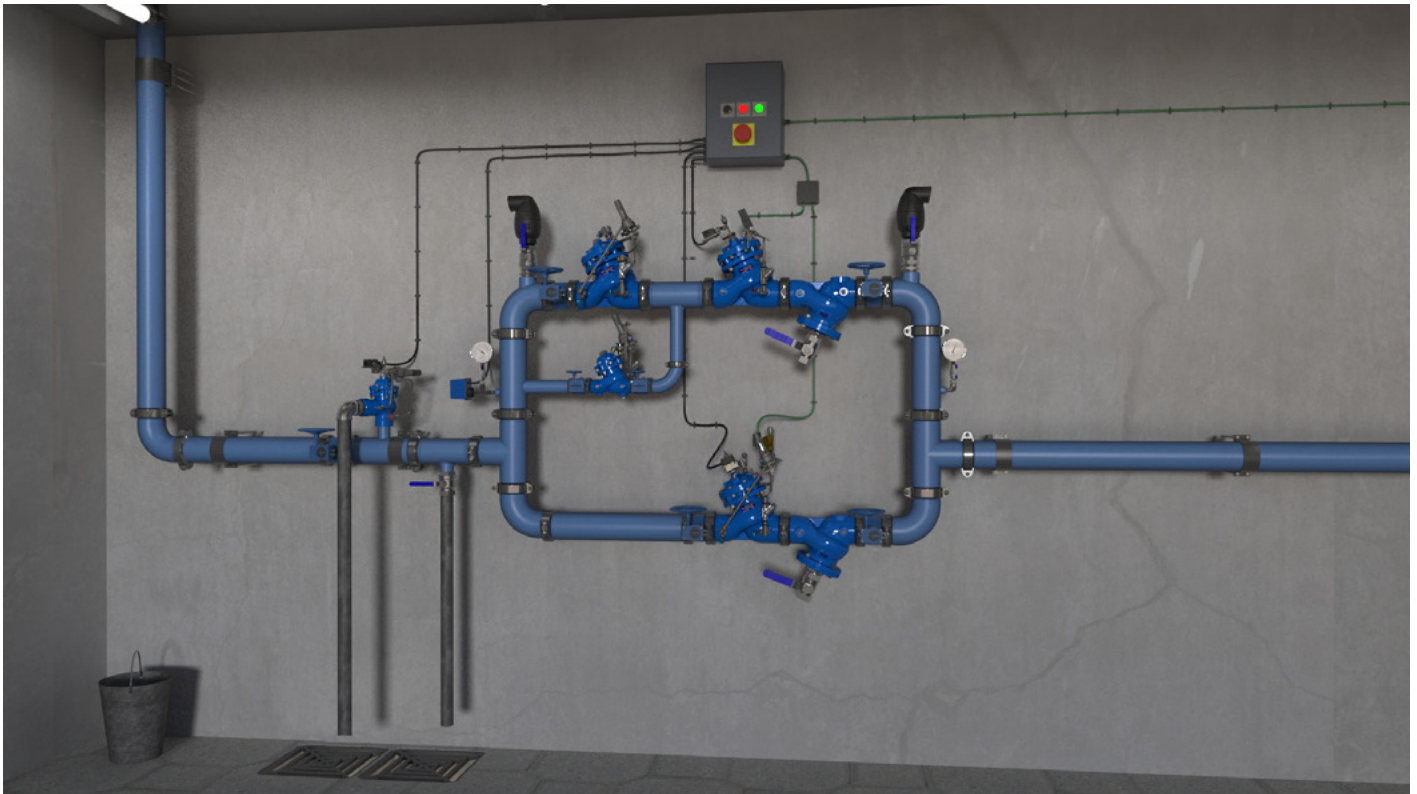


## SOLENOID CONTROLLED VALVE

### Model BC-710-P

Hydraulically operated, diaphragm actuated solenoid controlled valve that either opens fully or shuts off in response to an electric signal. It is available in several variations including Normally Open (NO), Normally Closed (NC) or Last Position (LP).

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 valves hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications.



Pressure Reducing Station with Block Valve and Automatic Backup. In case of abnormal pressure rise detected by the Pressure Switch the

system switches automatically between the active branch and the backup branch and an indication is sent to the BMS.

### Typical Application

- Serves as a safety block valve in PRV stations and in tank filling systems
- Routing flow to priority or emergency system branches
- Saving energy by switching between direct city supply and the local pumping station (controlled by an external control regime)
- Ensuring adequate refreshing of water reservoirs



## 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
- Hydrodynamic Body with Unobstructed Flow Path - Minimal noise and cavitation damage
- Protected Diaphragm - Minimizes chance of damage caused by debris in the pipeline

## 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

#### 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 <sup>1</sup>	Model	Series	Approval Group	End Connections & Pressure Rating	Solenoid	Ordering code would be	
BC	4"	710	EN	P1	16	4AC	BC-4"-710-EN-P1-16-4AC	
Buildings & Constructions	Inch mm		Series	Potable Water <sup>2</sup>	Up to 250 psi / PN16	Solenoid Configuration		
	1½" 40		Classic <b>00</b>	European Standards	<b>P1</b>	24V <sup>4</sup>	Normally Closed <sup>3</sup>	AC 50Hz <b>4AC</b>
	2" 50		Sigma EN <b>EN</b>	NSF 61/372	<b>P2</b>			AC 60Hz <b>46C</b>
	2½" 65		Sigma ES <b>ES</b>	Australia Standards	<b>P3</b>	Normally Open <sup>3</sup>	DC <b>4DC</b>	
	3" 80			Unregistered	<b>P0</b>		AC 50Hz <b>4AO</b>	
	4" 100					AC 60Hz <b>46O</b>		
	6" 150					DC <b>4DO</b>		
	8" 200							
	10" 250							
	12" 300							
				250-400 psi / PN25				
				Grooved	ANSI C606 <b>V2</b> BS 1378 <b>VB</b>			
				Flanged	ISO-25 <b>25</b> 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.
3. Valve Position when Solenoid is De-Energized
4. Other voltage available.



NSF 61/372  
USA



Bulgarkontrola  
Bulgaria



ACS  
France



GOST  
Russia



PZH  
Poland



WRAS  
UK



Watermark  
Australia



AS 5081  
Australia