



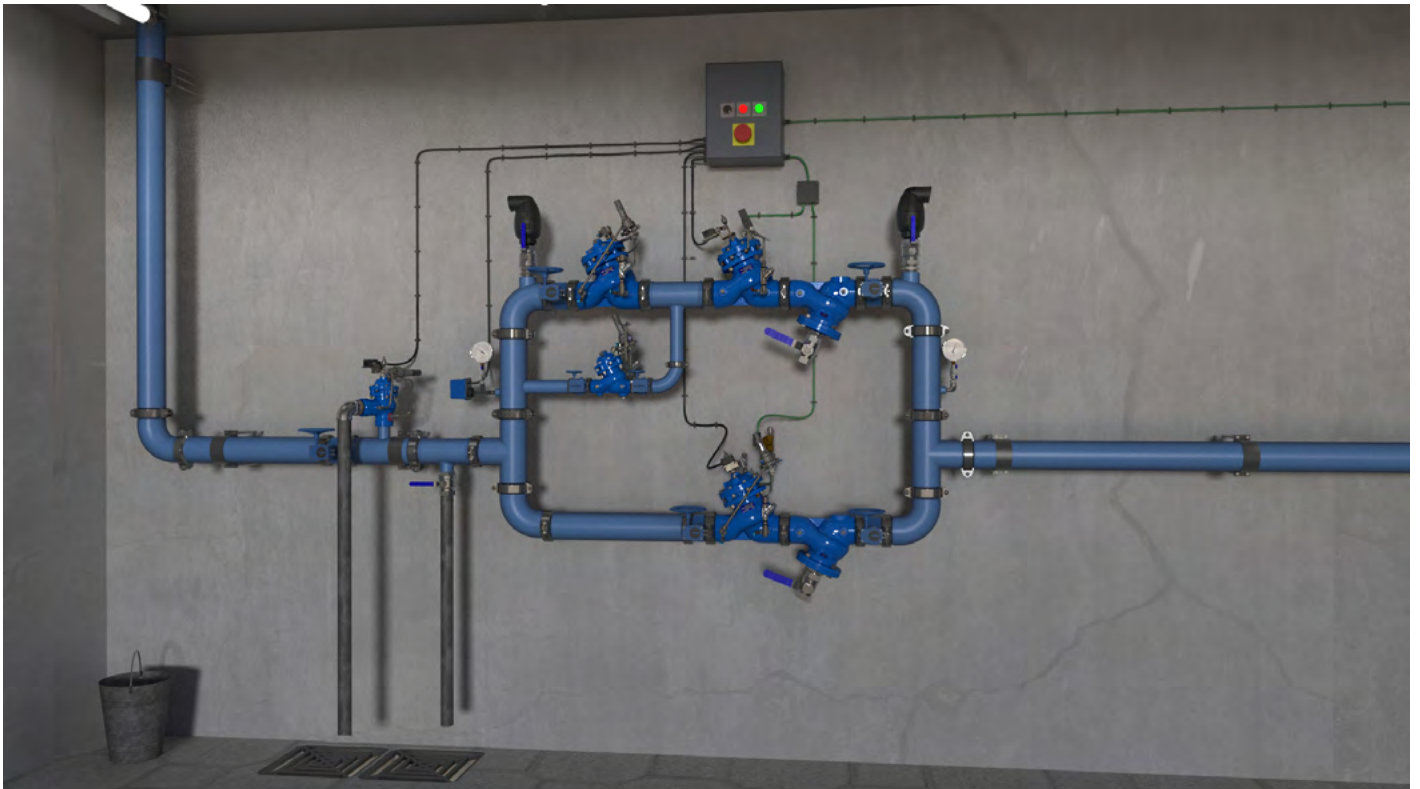
PRESSURE REDUCING VALVE

with Solenoid Control

Model BC-720-55-P

Hydraulically operated, diaphragm actuated Pressure Reducing Valve with Solenoid Control that reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand or varying upstream pressure. The valve opens and shuts off in response to an electric signal.

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.



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

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

Typical Application

- Switching between "on-duty" valves is pressure reducing systems
- Routing flow to priority or emergency system branches
- Pressure zone isolation



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
- 2-Way Control Loop - Immediate, accurate response to sudden system variations
- Adjustable Pilot - Easy field pressure setting and calibration
- V-Port Throttling Plug - Low flow stability

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, POM

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: Synthetic Rubber

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	Series	Approval Group	End Connections & Pressure Rating	Solenoid	Ordering code would be	
BC	4"	720-55	EN	P1	16	4AC		BC-4"-720-55-EN-P1-16-4AC
Buildings & Constructions	Inch mm		Series	Potable Water²	Up to 250 psi / PN16	Solenoid Configuration		
	1½" 40		Classic 00	European Standards P1	Grooved	ANSI C606 VI	24V ⁴	
	2" 50		Sigma EN EN	NSF 61/372 P2		BS 1387 VB		Normally Closed ³
	2½" 65		Sigma ES ES	Australia Standards P3		ISO-16 16	Normally Open ³	
	3" 80			Unregistered P0		ABNT16 B6		AC 50Hz 4AC
	4" 100					ANSI 150 A5	AC 60Hz 46C	
	6" 150					AST-* S*	DC 4DC	
	8" 200					Threaded	BSP BP	AC 50Hz 4A0
	10" 250						NPT NP	AC 60Hz 460
	12" 300							DC 4D0
					250-400 psi / PN25			
					Grooved	ANSI C606 V2		
						BS 1387 VB		
						ISO-25 25		
					Flanged	ABNT25 B2		
						ANSI 300 A3		
					Threaded	BSP PH		
						NPT NH		

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

Manufactured and Tested According to AWWA C530-12 Requirements