

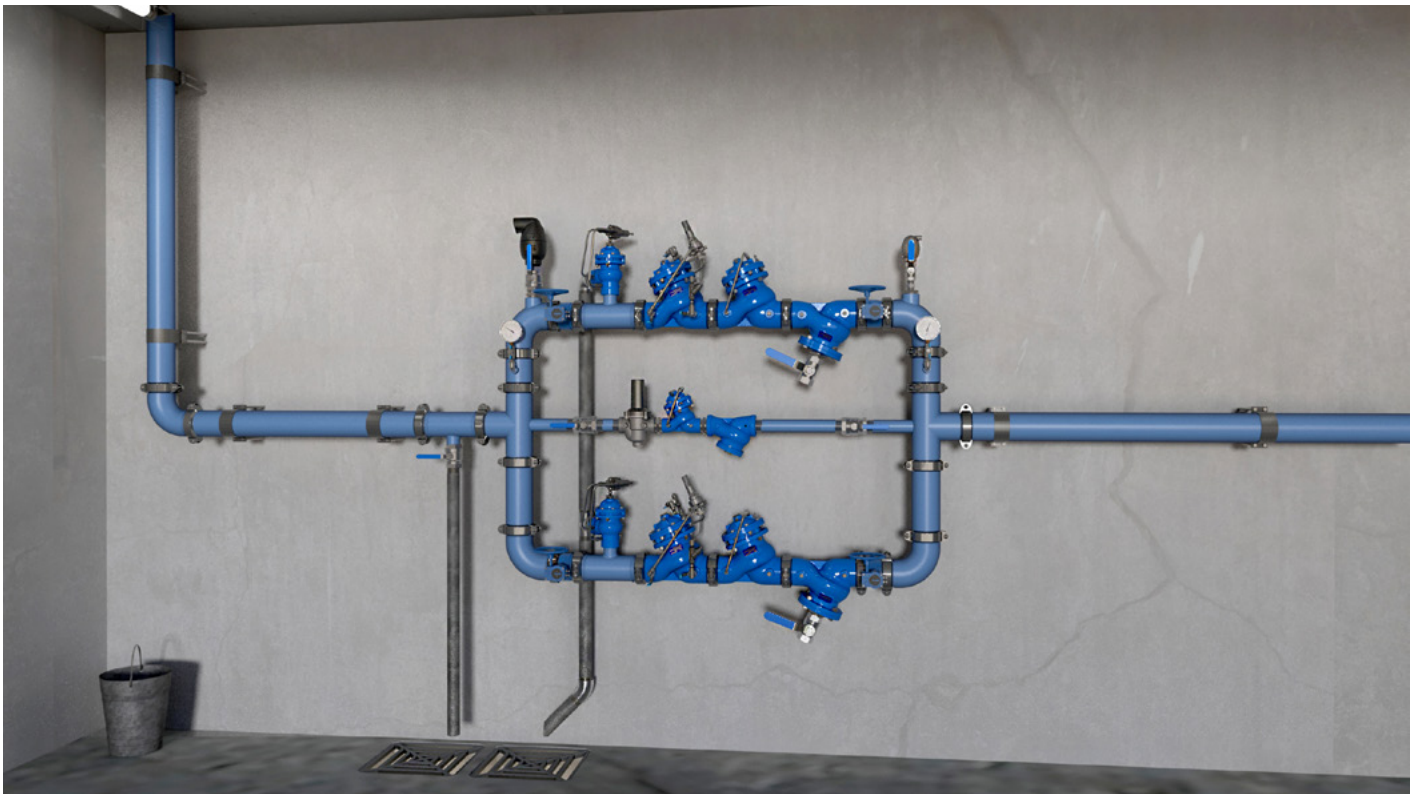


## PROPORTIONAL PRESSURE REDUCING VALVE

### Model BC-720-PD-P

Hydraulically operated, diaphragm actuated pressure reducing control valve that reduces a high upstream pressure to a lower downstream pressure at a fixed ratio.

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.



Two-Stage Pressure Reducing Station, featuring BERMAD BC-720-PD-P valves to reduce the incoming pressure by a fixed ratio and share the load with the BERMAD BC-720-P PRV, a redundant, parallel branch to minimize the possibility of total water shut-off and a low flow

bypass branch for low demand operation. For information on the other BERMAD products in this system please see the product data sheet for the following components: BERMAD BC-720-P, BERMAD BC-73Q-P and BERMAD BC-70F-P.

### Typical Application

- "Steps down" pressure when pressure reduction must be done in two or more stages
- Decreases the potential for high noise levels and cavitation damage caused by high reduction ratios
- Reduces the differential pressure load across level control or pressure relief valves by splitting that load between two valves instead of one



## 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
- Double Chamber Actuator - Rapid response to system changes with no hammer effect
- Adjustable Excessive Pressure Pilots - Easy field pressure setting and calibration

## 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

**Note:** Reduction ratios range (P1/P2) from 2.2 to 2.6. The reduction ratios are influenced by multiple factors including flow and inlet pressure.

\* 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"	720-PD	EN	P1	16		BC-4"-720-PD-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> BS 1378 <b>VB</b>
	2" 50		Sigma EN <b>EN</b>	NSF 61/372	<b>P2</b>	Flanged	ISO-16 <b>16</b> ABNT16 <b>B6</b> ANSI 150 <b>A5</b> AST-* <b>S*</b>
	2½" 65		Sigma ES <b>ES</b>	Australia Standards	<b>P3</b>		Threaded
	3" 80			Unregistered	<b>P0</b>		
	4" 100						
	6" 150						
	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.



NSF 61/372 USA



Bulgarkontrola Bulgaria



ACS France



GOST Russia



PZH Poland