

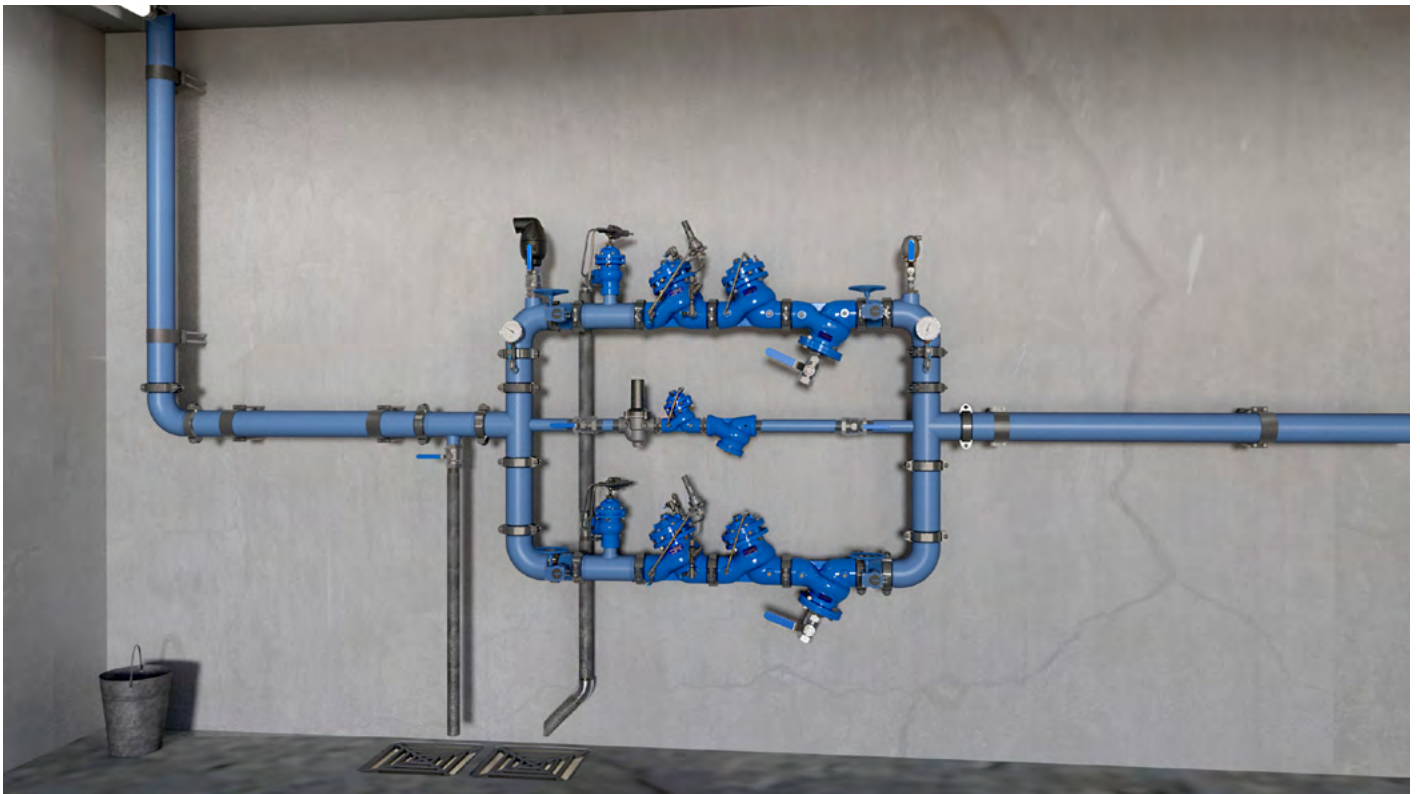


PROPORTIONAL PRESSURE REDUCING VALVE

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, 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

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 ¹	Model	Series	Approval Group	End Connections & Pressure Rating	
BC	4"	720-PD	EN	P1	16	
Buildings & Constructions	Inch mm	Series	Potable Water²		Up to 250 psi / PN16	
	1½" 40	Classic 00	European Standards	P1	Grooved	ANSI C606 VI
	2" 50	Sigma EN EN	NSF 61/372	P2		BS 1387 VB
	2½" 65	Sigma ES ES	Australia Standards	P3	Flanged	ISO-16 16
	3" 80		Unregistered	P0		ABNT16 B6
	4" 100					ANSI 150 A5
	6" 150					AST-* S*
	8" 200				Threaded	BSP BP
	10" 250					NPT NP
	12" 300					
					250-400 psi / PN25	
				Grooved	ANSI C606 V2	
					BS 1387 VB	
				Flanged	ISO-25 Z5	
					ABNT25 B2	
					ANSI 300 A3	
				Threaded	BSP PH	
					NPT NH	

Ordering code would be

BC-4"-720-PD-EN-P1-16

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

Manufactured and Tested According to AWWA C530-12 Requirements