

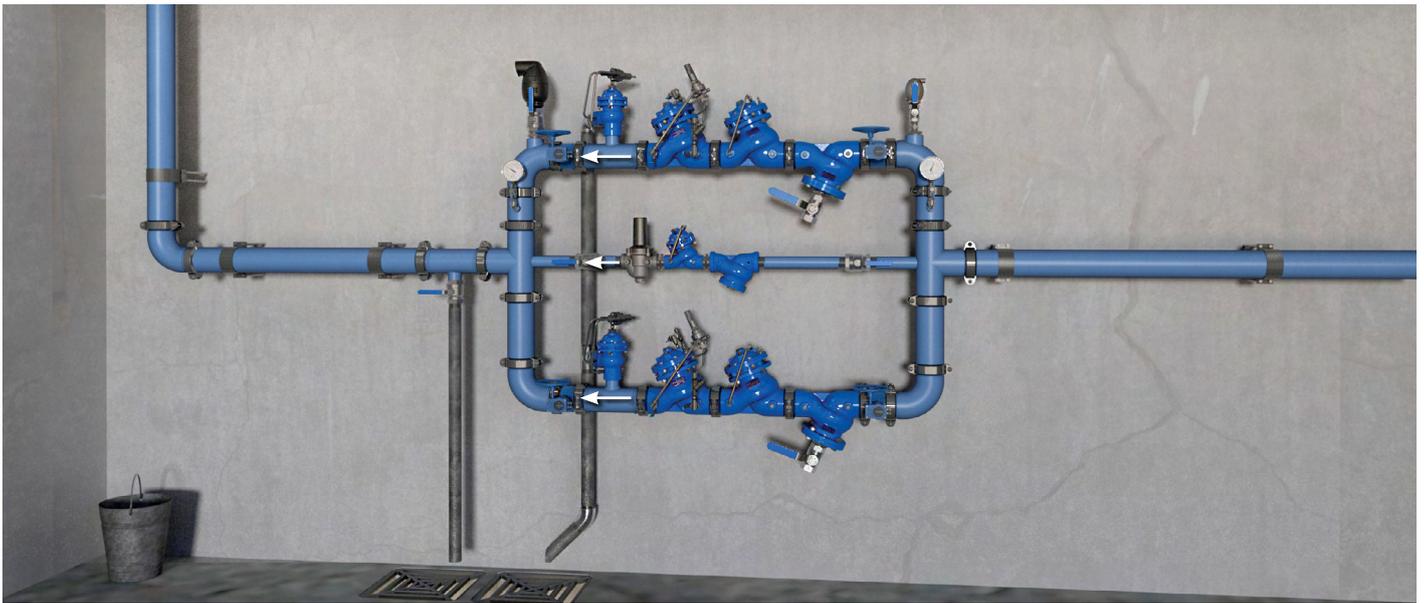


PROPORTIONAL PRESSURE REDUCING VALVE

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 globe style control valves available in either standard Y (oblique) or angle pattern configurations. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be removed from the body as a separate integral unit.



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
- V-Port Throttling Plug – Low flow stability

Technical Data

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

End Connections: Grooved, Flanged, Threaded

Pressure Rating: 250, 400 psi; PN16, 25

Valve Pattern: Y (Oblique) and Angle

Working Temperature: Water up to 140°F; 60°C

Main Valve Materials:

Body, Cover and Partition:

Standard: Ductile Iron

Optional: Stainless Steel 316

Internals: Stainless Steel, Bronze and Coated Steel

Tubing & Fittings: Stainless Steel 316 / OR Copper and Brass / OR Reinforced Nylon and Brass

Diaphragm: EPDM, Nylon Fabric-Reinforced

O-Rings: EPDM

Seal: NBR

Coating: Blue Fusion bonded epoxy

How to Order

Please Specify the requested valve in the following sequence:

	Size	Model	Approval Group	End Connections & Pressure Rating			
BC		720-PD					
Buildings And Construction	1½" 2" 2½" 3" 4" 6" 8" 10" 12" Larger sizes available on request	Potable Water		Up to 250 PSI / PN16			
		WRAS	P1	Grooved	ANSI C606	VI	
		DVGW			BS 1378	VB	
		ACS		Flanged	ISO-16	16	
		GOST			ABNT16	B6	
		BELGAQUA		Threaded	ANSI150	A5	
		PZH			JIS-16	J6	
		BULGARCONTROLA		250-400 PSI / PN25	BSP	BP	
		SVGW			NPT	NP	
		NSF 61/372		P2	Grooved	ANSI C606	V2
		AS 5081		P3		BS 1378	VD
		WATER MARK	ISO-25			25	
		Unregistered	P0	Flanged	ABNT25	B2	
		ANSI300	A3				
		Threaded	BSP	PH			
			NPT	NH			



NSF 61/372
USA



WRAS
UK



DVGW
Germany



ACS
France



GOST
Russia



BELGAQUA
Belgium



AS 5081
Australia



Watermark
Australia



PZH
Poland



Bulgarcontrola
Bulgaria



SVGW
Switzerland



ISO 9001 - 2008