

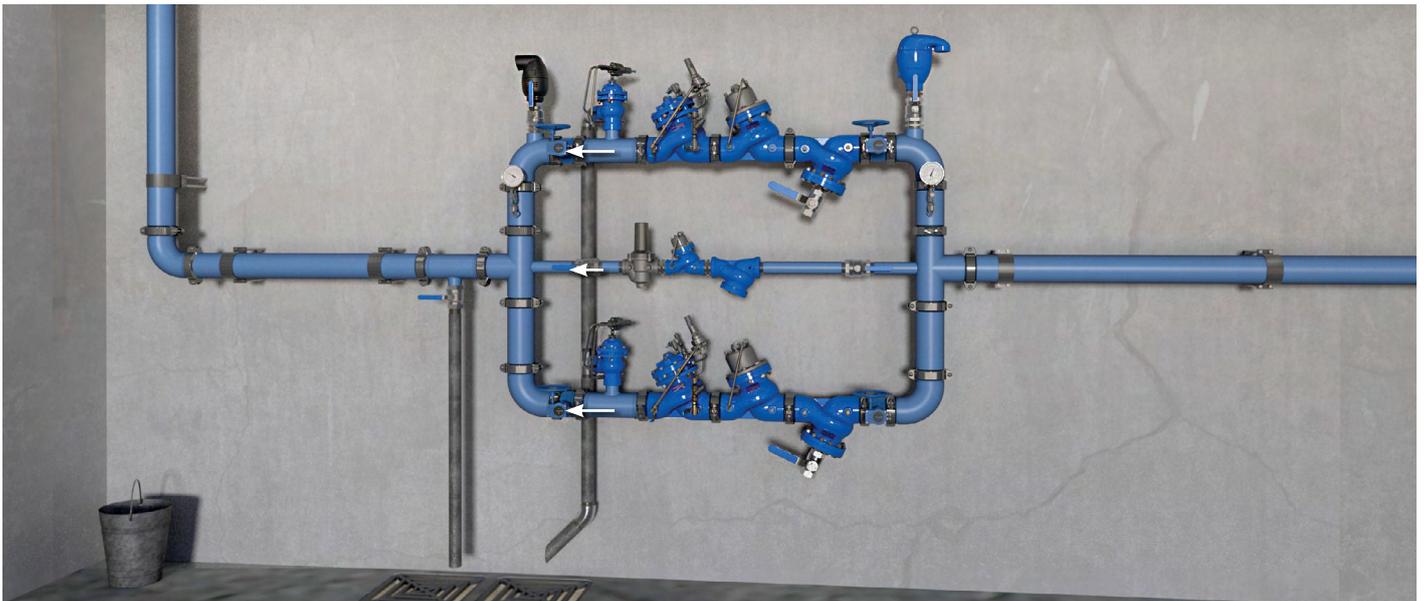


## HIGH PRESSURE, PROPORTIONAL PRESSURE REDUCING VALVE

### Model BC-820-PP-P

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

BERMAD 800 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-820-PP-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-80F-P.

### Typical Application

- "Steps down" pressure when pressure reduction must be done in two or more stages of reduction
- 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

**NOTE:** The BERMAD BC-820-PP-P is designed for high operating pressures. For lower operating pressures, consider the BERMAD BC-720-PD-P.



## 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
- Hydrodynamic Body with Unobstructed Flow Path – Minimal noise and cavitation damage
- 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 2.5. The reduction ratios are influenced by the valve size.

**End Connections:** Grooved, Flanged, Threaded

**Pressure Rating:** 600 psi; PN40

**Valve Pattern:** Y (Oblique) and Angle

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

## Main Valve Materials:

### Body:

**Standard:** Ductile Iron

**Optional:** Stainless Steel 316

**Cover (Cylinder):** Stainless Steel 316

**Internals:** Stainless Steel and Tin Bronze

**Tube & Fittings:** Stainless Steel 316 / Copper and Brass / Reinforced Nylon and Brass

**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		
<b>BC</b>		<b>820-PP</b>				
Buildings and Construction	1½"			Potable Water		
	2"			P1	Grooved	ANSI C606 <b>V2</b>
	2½"				Flanged	BS 1378 <b>VD</b>
	3"					ISO-40 <b>40</b>
	4"				Threaded	ANSI300 <b>A3</b>
	6"					BSP <b>PH</b>
	8"				NSF 61/372	P2
	10"			AS 5081	P3	
	12"			WATER MARK		
	Larger sizes available on request			Unregistered	P0	
			Up to 600 PSI / PN40			



NSF 61/372  
USA



GOST  
Russia



PZH  
Poland



Bulgarcontrola  
Bulgaria



ISO 9001 - 2008