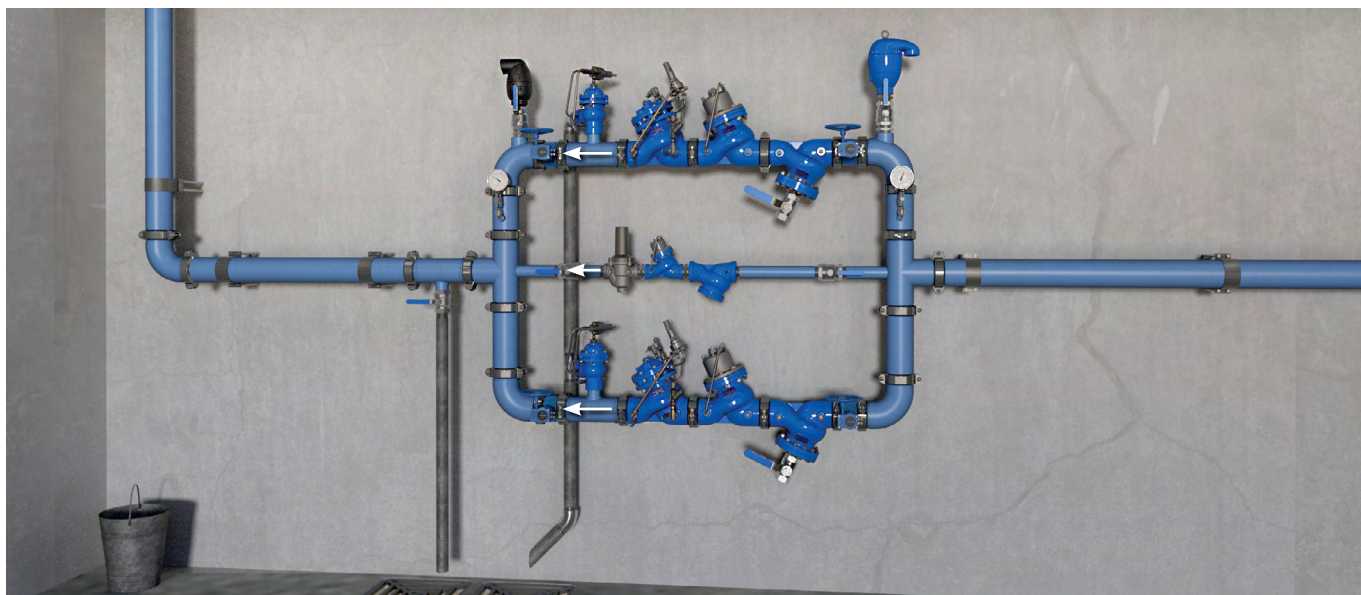


High Pressure, Proportional Pressure Reducing Valve

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.



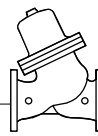
Two-Stage Pressure Reducing Station, featuring BERMAD BC-820-PP-P valves to reduce the incoming pressure by a fixed ratio and share the load with the BERMAD BC-720-P PRV, a redundant, parallel branch to minimize the possibility of total water shut-off and a low flow bypass branch for low demand operation. 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.

All images in this catalog are for illustration only



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 the valve size.

End Connections: Grooved, Flanged, Threaded

Pressure Rating: 600 psi; PN40

Valve Pattern: Y (Oblique) and Angle

Working Temperature: Water up to 180°F; 80°C

Main Valve Materials:

Body:

Standard: Ductile Iron

Optional: Stainless Steel 316

Cover (Cylinder): Stainless Steel 316

Internals: Stainless Steel and Tin Bronze

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

O-Rings: EPDM

Seal: NBR

Coating: Fusion Bonded Epoxy, RAL 5017 (Blue)

How to Order

Please specify the requested valve in the following sequence:

	Size	Model	Scope & compatibility	End Connections & Pressure Rating
BC		820-PP		
Building and Construction	1½"		Potable Water	400-600 psi / PN40
	2"		GOST	Grooved ANSI C606 V2
	2½"		PZH	Flanged ISO-40 40
	3"		BULGARCONTROLA	Threaded ANSI300 A3
	4"		NSF 61/372	BSP PH
	6"		Unregistered	NPT NH
	8"			
	10"		Fire Protection	
	12"		Unregistered	F0
	Larger sizes available on request		HVAC	
			Unregistered	E0
			Treated Water	
			Unregistered	T0

For other optional materials consult BERMAD

For Dimensions & Weights, IOM and more other detailed engineering data, visit the Series Engineering Documentation or the Downloads Center on the [BERMAD website](http://www.bermad.com)

Drinking Water Standards, Approvals & Certification:



NSF 61/372
USA



GOST
Russia



PZH
Poland



Bulgarcontrola
Bulgaria



ISO 9001 - 2008



info@bermad.com • www.bermad.com

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