

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.



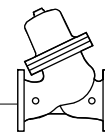
Two-Stage Pressure Reducing Station, featuring BERMAD BC-820-PP-P valves to reduce the incoming pressure by a fixed ratio and share the load with the BERMAD BC-720-P PRV, a redundant, parallel branch to minimize the possibility of total water shut-off and a low flow bypass branch for low demand operation.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

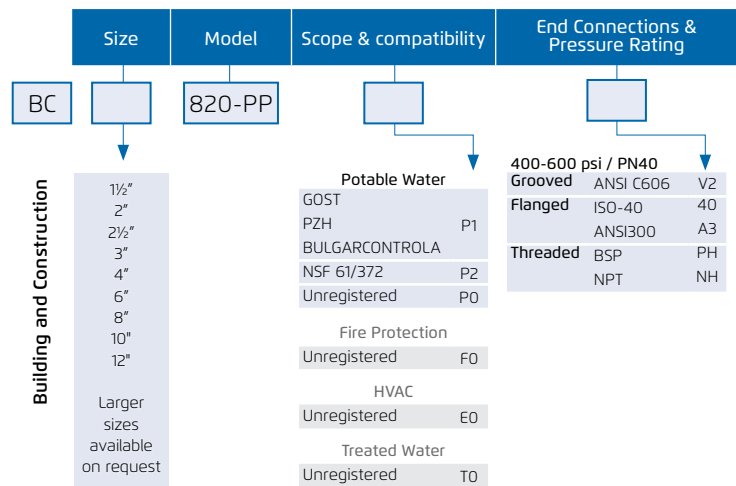
O-Rings: EPDM

Seal: NBR

Coating: Fusion Bonded Epoxy, RAL 5017 (Blue)

How to Order

Please specify the requested valve in the following sequence:



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:

