BERMAD Buildings & Construction

Potable Water • Pressure Control



PROPORTIONAL PRESSURE REDUCING VALVE

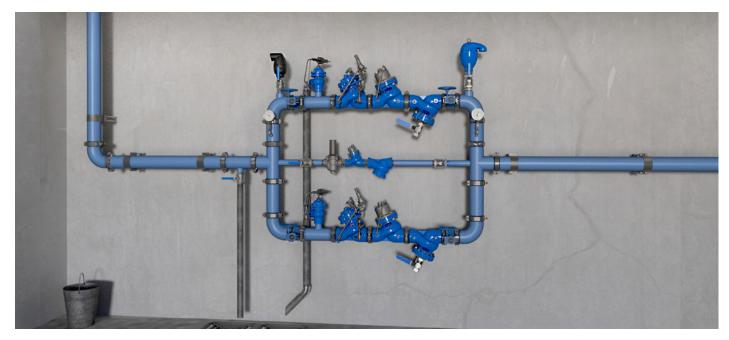
HIGH PRESSURE

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 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-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.

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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

General:

End connections:

Grooved / Flanged / Threaded **Pressure Rating:** 600 psi; PN40 **Valve Pattern:** Y (Oblique) / Angle

Working Temperature:Cold Water up to 140°F; 60°C **Optional Higher Temperatures:**

Avaliable on request

Main Valve Materials:

Body:

Standard: Ductile Iron Optional: Stainless Steel 316 Cover (cylinder): Stainless Steel 316

Seat: Stainless Steel

Internals:

Stainless Steel, Tin Bronze & Coated Steel

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 2.5. The reduction ratios are influenced by the valve size.

* 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: Ordering code End Connections & Pressure Rating would be 4" BC 820-PP EN P1 40 BC-4"-820-PP-EN-P1-16 Inch mm Series Potable Water² Up to 600 psi / PN40 Buildings & Constructions 11/5" 40 Classic 00 European Standards ANSI CEOE V2 1. Larger sizes available on Grooved 2" Sigma EN **EN** BS 1378 ۷D 50 NSF 61/372 P2 request 21/2" Sigma ES **ES** Australia Standards 65 ISO-40 40 2. BERMAD complies with a Flanged 3" ANSIBOO wide range of international 80 Unregistered PΩ ΑЗ potable water standards.Please consult with BERMAD about 4" BSP 100 РΗ Threaded 6" NPT NH 150 8" 200 10" 250 12" 300









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