

PRESSURE REDUCING AND SUSTAINING VALVE

Model 823

Hydraulically operated control valve with independent Pressure Sustaining and Pressure Reducing functions. It sustains minimum pre-set upstream pressure, regardless of fluctuating flow or varying downstream pressure, and it prevents downstream pressure from rising above maximum pre-set level, regardless of fluctuating flow or excessive upstream pressure.

BERMAD 800 series valves are hydraulically operated, piston actuated globe valves designed for high pressure operation and available in either standard oblique (Y) or angle pattern design. Their full bore hydrodynamic body provides an unobstructed flow path while their seat assembly and double-chamber unitized actuator can be disassembled without removing the valve body from the pipeline.

Features and Benefits

- Robust structure, piston actuated High pressure service
- Line pressure driven Independent operation
- Elegant simplicity
- Cost effectiveo Simple to maintain
- Minimal external accessories
- In-line serviceable Easy maintenance
- Double chamber
 - Moderated valve reaction
 - Moderated closing curve
- Flexible design Easy addition of features
- Semi-straight flow Non turbulent flow
- Stainless Steel raised seat Cavitation damage resistant
- Obstacle free, full bore Uncompromising reliability
- V Port Throttling Plug (Optional) Very stable at low flow

Major Additional Features:

- 3-way control 823-X
- Anti cavitation cage 823-C2
- Hydraulic check valve 823-20
- Solenoid control 823-55
- High sensitivity pilot 823-12
- Downstream over pressure guard 823-48
- Proportional 823-PD

See relevant BERMAD publication

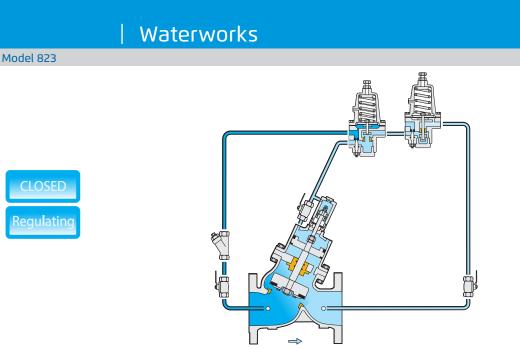


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Click here for control accessories

HOME VIEW



This drawing refers to $1\frac{1}{2} - 14$ "; DN40-350 sized valves only. For other sizes please refer to the Model's IOM.

Main Valve

Valve Patterns, Size Range:

"Y" (Globe): 1½-20"; DN40-500 Angle: 1½-18"; DN40-450 Pressure Rating: 40 bar; 600 psi End Connections: Flanged (all standard) Plug Types: Flat disc, Cavitation cage Temperature Rating: 60°C; 140°F for Cold water applications Optional higher temperature: Available on request

Standard Materials:

Body: Cast Steel or Ductile Iron Cover (Cylinder): Stainless Steel Bolts Nuts & Studs: Stainless Steel Internals: Stainless Steel, Tin Bronze Elastomers: Synthetic rubber Optional Materials: Stainless Steel, Nickel Aluminum Bronze, Duplex & others Coating: Dark blue Fusion bonded epoxy

Control System

Standard Materials:

Accessories: Stainless Steel, Bronze & Brass Tubing: Stainless Steel or Copper Fittings: Stainless Steel or Brass

Pilot Standard Materials:

Body: Stainless Steel, Bronze or Brass Elastomers: Synthetic rubber Spring: Stainless Steel Internals: Stainless Steel

Pilot Options:

Various pilots and calibration springs are available. Select according to valve size and operating conditions. For more details check pressure reducing pilots and pressure sustaining pilots product pages.

800 Series

Notes

- Inlet pressure, outlet pressure and flow rate are required for optimal sizing and cavitation analysis
- Recommended continuous flow velocity: 0.1-6.0 m/sec; 0.3-20 ft/sec
- Minimum operating pressure: 0.7 bar; 10 psi. For lower pressure requirements consult factory

