

800 Series

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.



Click here for control accessories



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

Major Additional Features:

- 3-way control **823-X**
- Anti cavitation cage 823-C2
- Safety valve 823-TC
- Independent drop check 823-25
- 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

Typical Application

C70 830 823 80F

All images in this catalog are for illustration only

Link to Animation

C70

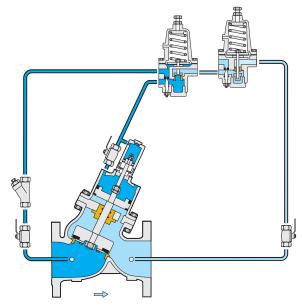


BERMAD Waterworks



Model 823 800 Series





This drawing refers to $1\frac{1}{2} - 14$ "; DN45-350 sized valves only. For other sizes please refer to the Model's IOM. This drawing refers to $1\frac{1}{2} - 14$ "; DN45-350 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: 50216:122° fof 8000 d. d. 802 fer applications.

Optional higher temperature: Available on request

Standard Materials:

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Control System

Standard Materials:

Accessories: Stainless Steel, Bronze & Brass **ഡർങ്ങ്യാ** Braigles തിലോ തിലോ ത്രാലം 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.

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

For detailed engineering data, visit the Series Engineering Documentation & Model Engineering Specifications or the Downloads Center on the BERMAD website



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