800 Series

SURGE ANTICIPATING VALVE Model 835-M

Off-line surge anticipating valve that immediately opens in response to the pressure drop associated with abrupt pump stoppage. The pre-opened valve dissipates the returning high pressure wave, eliminating the surge.

The valve smoothly closes drip tight as quickly as the relief feature allows, thereby preventing closing surge. The valve also relieves excessive system 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
- V Port Throttling Plug (Optional) Very stable at low flow

Major Additional Features:

- Solenoid control 835-55-M
- Quick pressure relief valve 83Q
- Hydraulic/Electric override 835-55-09-M
- See relevant BERMAD publication



All images in this catalog are for illustration only











Control System

Standard Materials:

Accessories: Stainless Steel, Bronze & Brass

Tubing: Stainless Steel or Copper

Fittings: Stainless Steel or Brass

Body: Stainless Steel, Bronze or Brass

Pilot Standard Materials:

Spring: Stainless Steel

valves and reservoirs.

Internals: Stainless Steel

Elastomers: Synthetic rubber

Required data for surge analysis:

Pipe profile and characteristic, pumping station full details,

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This drawing refers to 1% – 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 reques

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

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.

