

# **QUICK PRESSURE RELIEF VALVE**

# Model 830

Hydraulically operated, piston-actuated, quick pressure relief valve that relieves excessive system pressure when such pressure rises above a pre-set value.

It responds immediately, accurately, and with high repeatability to a rise in system pressure by opening fully. It also provides smooth drip tight closing.

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.

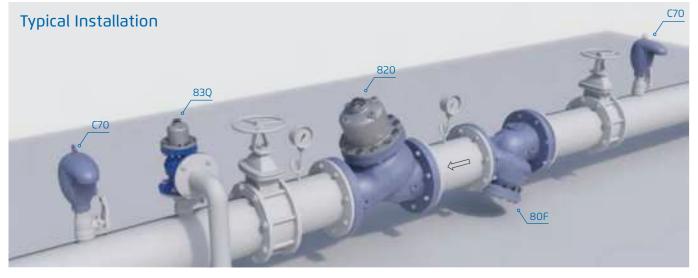


#### Features and Benefits

- Robust structure, piston actuated High pressure service
- Line pressure driven Independent operation
- Elegant simplicity
  - Cost effective
  - 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

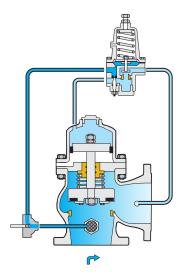
# Major Additional Features

- Flow stem 83Q-M
- Position indication 83Q-S See relevant BERMAD publication









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 Selection:**

Consult factory

#### **Notes**

- · Main pipe diameter, pressure rating, flow rate and relief pressure are required for optimal sizing
- Recommended continuous flow velocity: 0.3-15 m/sec; 1-50 ft/sec

For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the <u>BERMAD</u> website.



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