Quick Pressure Relief Valve

Model BC-73Q-P

Hydraulically operated, diaphragm 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 700 series valves are globe style control valves available in either standard Y (oblique) or angle pattern configurations. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be removed from the body as a separate integral unit.

Pressure Reducing Station, featuring BERMAD BC-73Q-P valves to relieve excessive downstream pressure, 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 BERMAD BC-720-P and BERMAD BC-70F-P.

Typical Application

- Protects downstream against excessive pressure due to PRV failure
- Prevents system damage due to sudden demand reduction
- Relieves pressure spikes due to abrupt pump stoppages

Note: The BERMAD BC-73Q-P requires proper drainage, where drainage is limited, consider the BERMAD BC-72S-H-P or the BERMAD BC-794-P

All images in this catalog are for illustration only
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
- Unitized Actuator Assembly – Minimal downtime
- Hydrodynamic Body with Unobstructed Flow Path – Minimal noise and cavitation damage
- Protected Diaphragm – Minimizes chance of damage caused by debris in the pipeline
- 2-Way Control Loop – Immediate, accurate response to sudden system variations
- Adjustable Pilot – Easy field pressure setting and calibration
- System Failure Indication (optional) – Immediate notification to maintenance personnel

Technical Data

**End Connections:** Grooved, Flanged, Threaded
**Pressure Rating:** 250, 400 psi; PN16, 25
**Valve Pattern:** Y (Oblique) and Angle
**Working Temperature:** Water up to 180°F; 80°C

**Main Valve Materials:**
- **Body, Cover and Partition:**
  - **Standard:** Ductile Iron
  - **Optional:** Stainless Steel 316

- **Internals:** Stainless Steel, Bronze and Coated Steel
- **Control Accessories:** Stainless Steel 316
  - OR Bronze and Brass
- **Tubing & Fittings:** Stainless Steel 316
  - OR Copper and Brass
  - OR Reinforced Nylon and Brass
- **Diaphragm:** EPDM, Nylon Fabric-Reinforced
- **O-Rings:** EPDM
- **Seal:** NBR
- **Coating:** Fusion Bonded Epoxy, RAL 5017 (Blue)

How to Order

Please specify the requested valve in the following sequence:

- **Size**
- **Model**
- **Scope & compatibility**
- **End Connections & Pressure Rating**

**Building and Construction**

- Up to 250 psi / PN16
  - Grooved ANSI C606 VI
  - Flanged ISO-16 B6

- Up to 400 psi / PN25
  - Grooved ANSI C606 V2
  - Flanged ISO-25 B2

- Larger sizes available on request

For other optional materials consult BERMAD
For Dimensions & Weights, IOM and more other detailed engineering data, visit the Series Engineering Documentation or the Downloads Center on the BERMAD website.

Drinking Water Standards, Approvals & Certification:

- NSF 61/372 USA
- WRAS UK
- DVGW Germany
- ACS France
- GOST Russia
- BELGAQUA Belgium
- AS 5081 Australia
- Watermark Australia
- PZH Poland
- Bulgarcontrola Bulgaria
- SVGW Switzerland
- ISO 9001 - 2008