

# QUICK PRESSURE RELIEF VALVE

## Model 73Q

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 hydraulically operated globe valves available in either standard oblique (Y) or angle (A) pattern design. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be disassembled from the body as a separate integral unit.



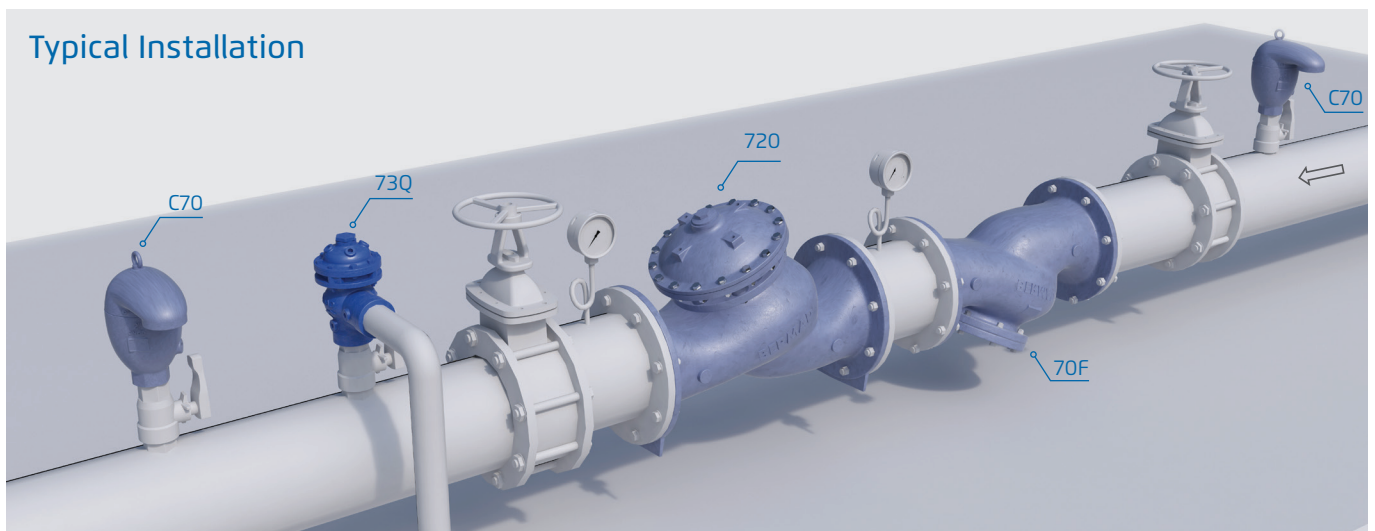
### Features and Benefits

- Designed to - stand up to the toughest conditions
  - Excellent anti-cavitation properties
  - Wide flow range
  - High stability and accuracy
  - Drip tight sealing
- Double chamber design
  - Moderated valve reaction
  - Protected diaphragm
  - Optional operation in very low pressure
  - Moderated closing curve
- Flexible design - Easy addition of features
- Obstacle free flow pass
- V-Port Throttling Plug (Optional) - Very stable at low flow
- Compatible with various standards
- High quality materials
- In-line serviceable - Easy maintenance

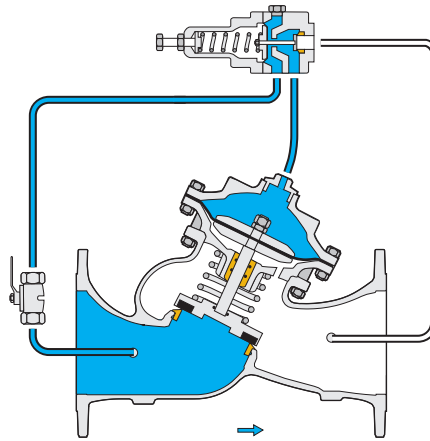
### Major Additional Features

- Flow stem – 73Q-M
  - Position indication – 73Q-S
- See relevant BERMAD publication

### Typical Installation



All images in this catalog are for illustration only



This drawing refers to 1½ – 8"; 40-200 mm sized valves only. For other sizes please refer to the Model's IOM.

## Main Valve

**Valve Patterns:** "Y" (globe) & "A" (angle)

**Size Range:** 1½–24"; 40-600 mm

**Pressure Rating:** 25 bar; 400 psi

**End Connections:** Flanged (all standard)  
Threaded: BSP or NPT

**Others:** Available on request

**Temperature Rating:** 60°C; 140°F for cold water applications

**Optional Higher temperature:** Available on request

### Standard Materials:

**Body & actuator:** Ductile Iron

**Bolts, nuts & studs:** Stainless Steel

**Internals:** Stainless Steel, Tin Bronze & Coated Steel

**Diaphragm:** Fabric-reinforced synthetic rubber

**Seals:** Synthetic rubber

**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:

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 [BERMAD](http://www.bermad.com) website.