

# PRESSURE REDUCING VALVE

## Model 720-45-M5/M5L/M6

Hydraulically operated, pressure reducing control valve that reduces higher upstream pressure to lower constant downstream pressure, regardless of fluctuating demand or varying upstream pressure.

This valve is a double chamber configuration using 3-way control, being extremely responsive regardless of operating conditions, allowing full opening without the risk of hydraulic lock out.

The BERMAD 700 Series large size control valves are hydraulically operated, diaphragm actuated type. Unique hydro-dynamic globe valve design with a special open plug provides high flow capabilities. The valves are available in the standard configuration or with an Independent Check Feature code "2S".



[Click here for control accessories](#)



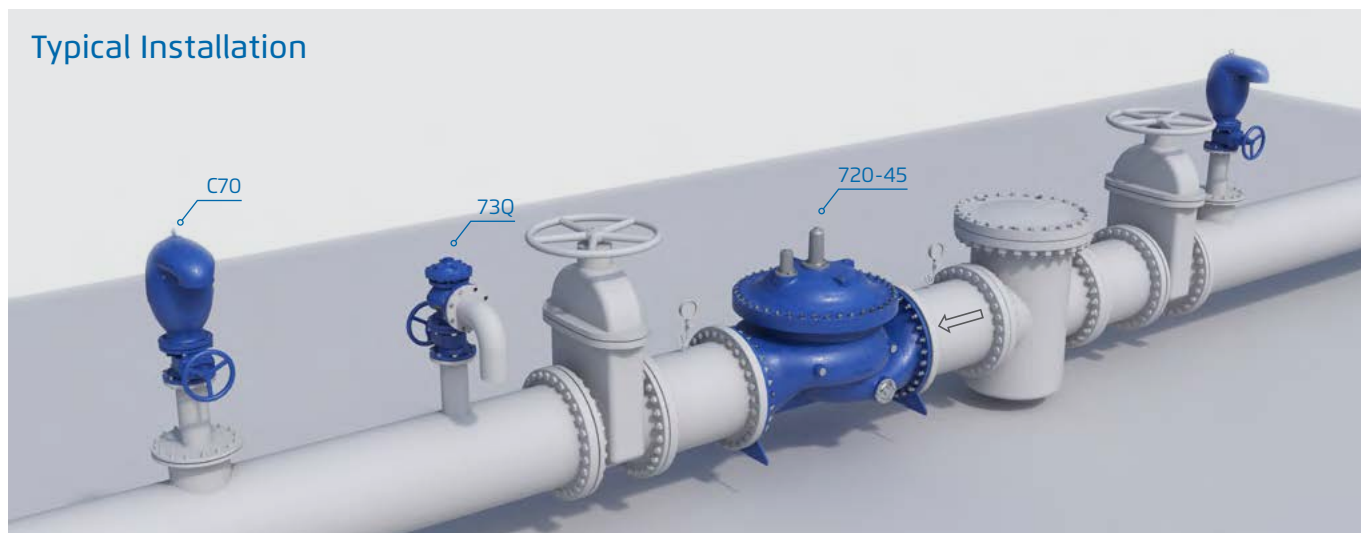
### Features and Benefits

- Hydrodynamic wide globe valve body provides:
  - Higher flow (Kv; Cv) than standard globe valves
  - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can work without an external source of power.
- Wide range of options and accessories:
  - One-way or two-way flow direction
  - V-Port
  - Cavitation cage
  - Visual position indicator
  - Limit switches
  - Analog opening output
  - Large selection of control accessories
  - Double chamber actuation (700-M6)
  - Large inspection and service ports (700-M5L)

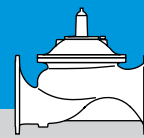
### Major Additional Features

- Pressure management valve – 7PM-M5/M5L/M6
  - 3-Way control – 720-45-X-M5/M5L/M6
  - Anti-cavitation cage – 720-45-C2-M5/M5L/M6
  - Independent check feature – 720-45-2S-M5/M5L/M6
  - Hydraulic check valve – 720-45-20-M5/M5L/M6
  - Solenoid control – 720-45-55-M5/M5L/M6
  - High sensitivity pilot – 720-45-12-M5/M5L/M6
  - Downstream over pressure guard – 720-45-48-M5/M5L/M6
- See relevant BERMAD publication

### Typical Installation



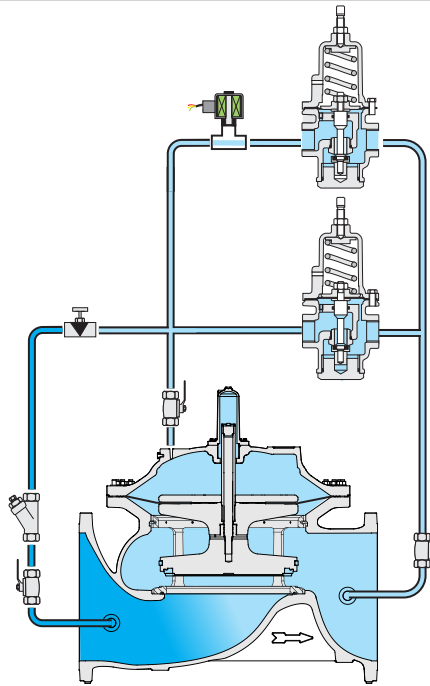
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### Main Valve

**Valve Pattern:** Globe

**Size Range:** DN 500-1200; 20"-48"

**Pressure Rating:** 40 bar; 600 psi

**End Connections:** Flanged

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

**Optional higher temperature:** Available on request

**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:

Various pilots and calibration springs are available.

Select according to valve size and operating conditions.

For more details check pressure reducing pilots product page.

### 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.

