

PRESSURE REDUCING VALVE

For Building Applications

Model 720-BC-V

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 model features a low static sealing pressure rise, combined with high stability and precision.

The BERMAD 700 SIGMA EN/ES series valves are hydraulic globe valves with a raised seat and double chamber actuator. They provide unobstructed flow, effective high-pressure modulation, and minimal cavitation, complying with various potable water standards.



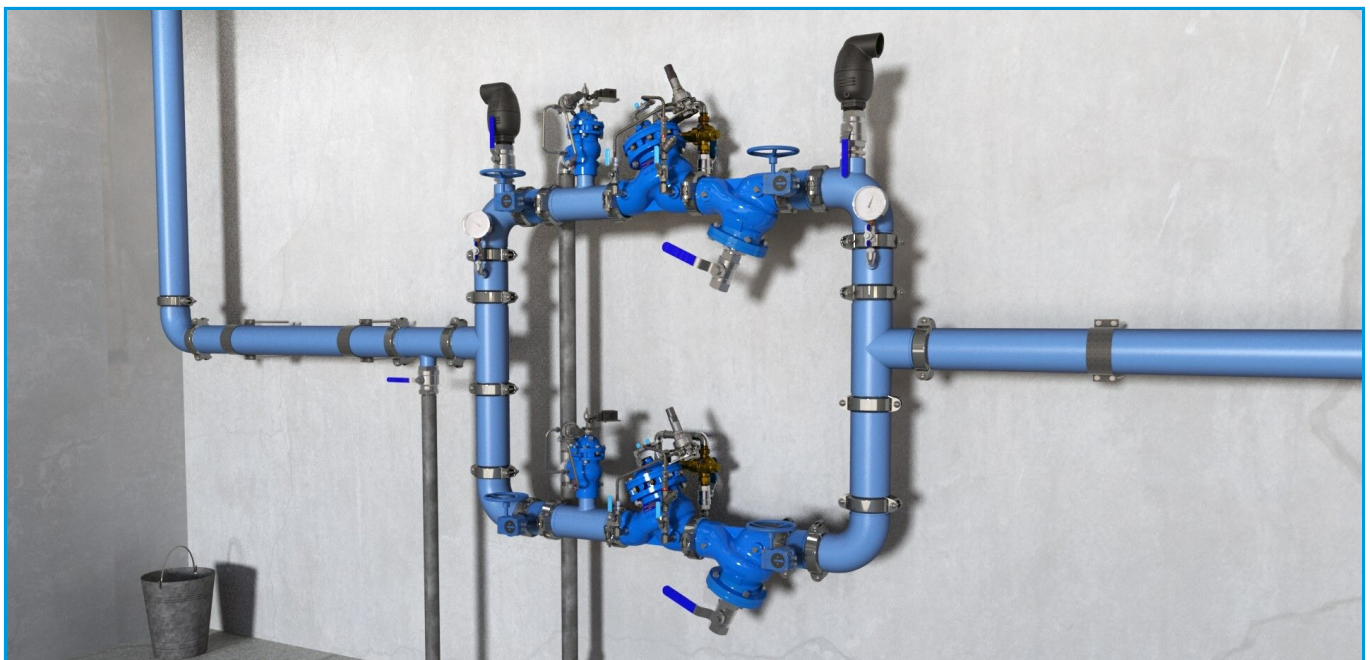
Features & Benefits

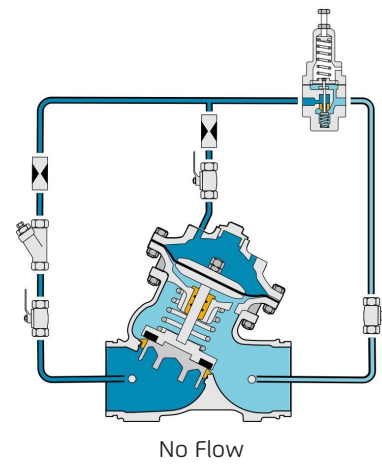
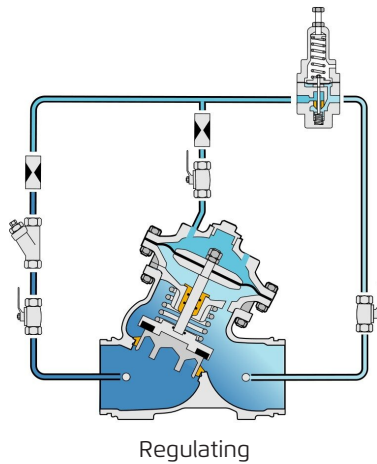
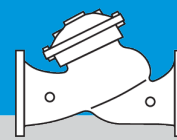
- Certified to functional and drinking water standards: EN-1074, NSF/ANSI 61/372, WRAS, AS 5081 and others
- Designed to - Stand up to the toughest conditions
 - Excellent anti-cavitation properties
 - High stability and accuracy
 - Low static pressure rise
 - Drip tight sealing
 - Wide flow range
- In-line serviceable - Easy maintenance
- V-Port throttling plug
- High quality materials
- Double chamber design
 - Moderated valve reaction
 - Protected diaphragm

Typical Applications

- Building & constructions - Reducing pressure at the pressure zone inlet
- Highrise and midrise
- Residential buildings
- Office buildings
- Hotels
- Sports arenas, shopping malls etc.
- Municipal systems - connections to buildings and structures

Typical Installation





This drawing refers to 1½ – 4"; 40-100 mm sized valves only. For other sizes please refer to the Model's IOM.

Main Valve

Size Range: 1½"-4"; DN40-100

EN Series: 1½"-4"; DN40-100

ES Series: 2½"-4"; DN65-100

Pattern: "Y" (globe)

Pressure Rating: 250 psi; 400 psi

End Connection: Grooved, Flanged

Plug Types: V-port

Temperature Rating: 180°F

For 140–180°F consult factory

Standard Materials:

Body & Cover: Ductile Iron

Bolts, Nuts & Studs: Stainless Steel

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

Diaphragm: Fabric-reinforced synthetic rubber

Seals: Synthetic rubber

Coating: Dark blue Fusion bonded epoxy

For other materials contact BERMAD

Pilot:

2PBL with 1-10 bar; 14.5-145 psi setting range

Other calibration springs available, check pilot product page.

Pilot standard materials:

Body: Stainless Steel

Elastomers: Synthetic Rubber

Internals and Spring: Stainless Steel

Control System

Standard Materials:

Accessories: Stainless Steel, Bronze & Brass

Tubing: Stainless Steel or Copper

Fittings: Stainless Steel or Brass

Notes

- Maximum recommended reduction ratio for single stage in building applications: 3:1. For higher reduction ratio use two stage reduction with the model WW-720-PD2
- Recommended continuous flow velocity in building applications: 0.1-3.0 m/sec; 0.3-10 ft/sec.
- Inlet Pressure, Outlet Pressure and Flow-rate are required for optimal sizing and cavitation analysis.
- Minimum operating pressure: 0.7 bar; 10 psi. For lower pressure requirements consult factory.

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