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.

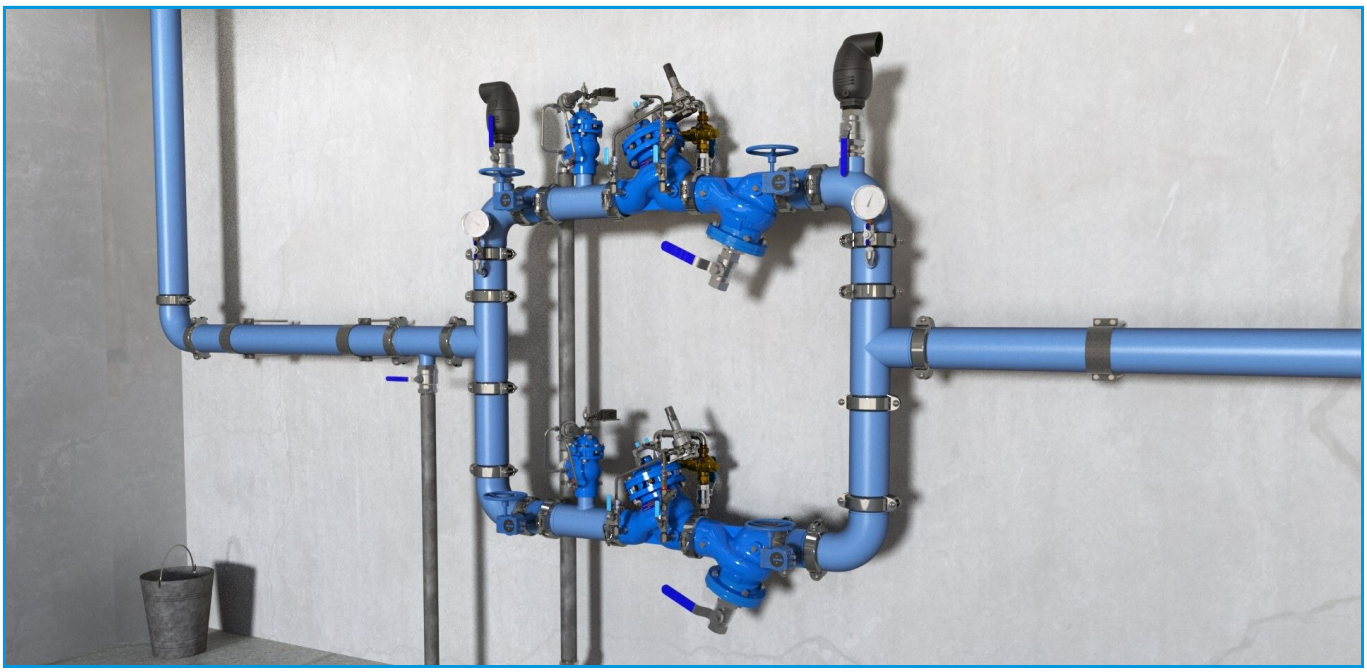
Features & Benefits

- 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

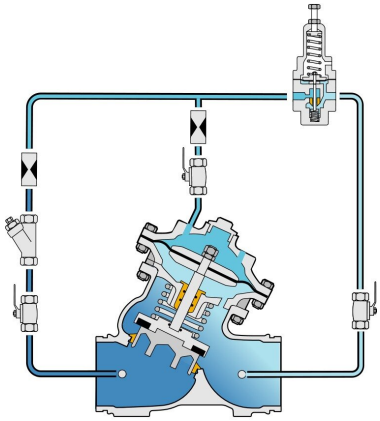
Typical Applications

- 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

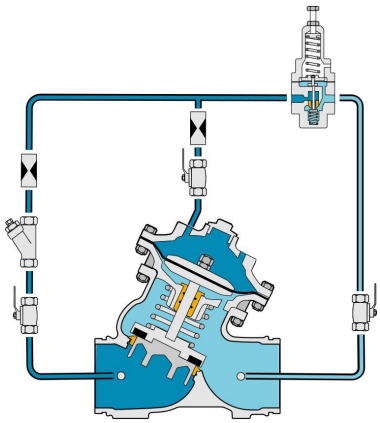
Typical Installation



All images in this catalog are for illustration only



Regulating



No Flow

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: 16 bar; 25 bar
End Connection: Grooved, Flanged
Plug Types: V-port
Temperature Rating: 80°C
For 60–80°C 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.

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