PRESSURE MANAGEMENT VALVE

Flow Compensated Pressure Reducing Valve

Model 7PM EN/ES

Hydraulically operated, diaphragm actuated, flow compensated, pressure reducing control valve that automatically and continuously optimizes downstream pressure, correlating valve settings with demand. With its sophisticated control loop and accessories, this model is an excellent solution to the non-revenue water problem without the need for electronic control installation.

BERMAD 700 SIGMA EN/ES series valves are hydraulic, oblique pattern, globe valves with a raised seat assembly and double chamber unitized actuator, that can be disassembled from the body as a separate integral unit. The valves hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications. The valves are available in the standard configuration or with an Independent Check Feature code "2S". The 700 SIGMA EN/ES Valves operate under difficult operation conditions with minimal cavitation and noise. They meet size and dimensions requirements of various standards.

Click here for control accessories

HOME VIEW

Features and Benefits

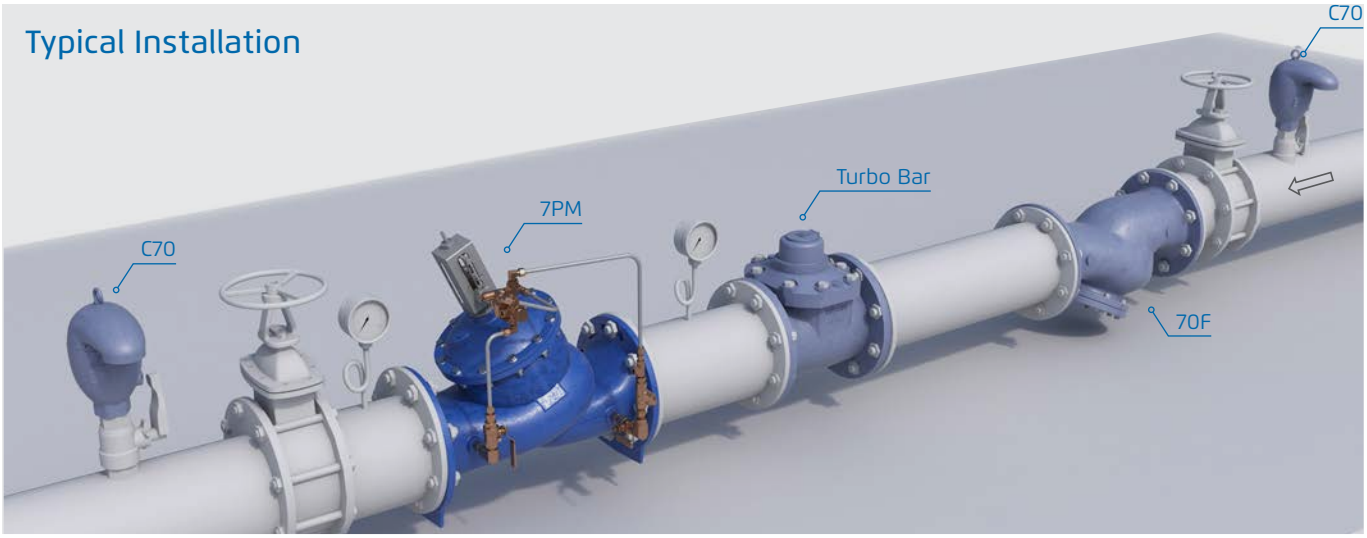
- Designed to - stand up to the toughest conditions
  - Excellent anti-cavitation properties
  - Wide flow range
  - High stability and accuracy
  - Drip tight sealing
- Double chamber design
  - Moderated valve reaction
  - Protected diaphragm
  - Optional operation in very low pressure
  - Moderated 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

- Downstream over pressure guard – 7PM-48
- Check valve – 7PM-20
- Hydraulic override – 7PM-09
- Pressure sustaining – 723-PM
- Flow control – 772-PM
- Anti cavitation cage – 720-C2
- Independent Check Feature – 7PM-2S

See relevant BERMAD publications.

Typical Installation



All images in this catalog are for illustration only

Link to Animation

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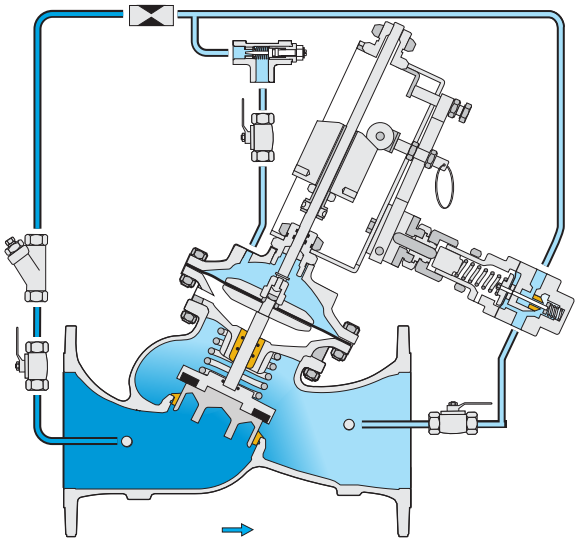

This drawing refers to 1½ – 8"; 40-200 mm sized valves only. For other sizes please refer to the Model's IOM.

Main Valve

Valve Patterns: "Y" (Globe)
Size Range:
EN Series: 1½-16"; 40-400 mm
ES Series: 2½-24"; 65-600 mm
Pressure Rating: 25 bar; 400 psi
End Connections: Flanged (all standard)
Plug Types: Flat disc, V-port, Cavitation cage
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

7PM assembly:

Additional Height:
300 – 550 mm; 12-22" according to valve size.

Notes

- Inlet pressure, outlet pressure and flow rate ranges are required for optimal sizing.
- Recommended continuous flow velocity: 0.3-5.0 m/sec; 1.0-16 ft/sec.
- 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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