

PRESSURE REDUCING VALVE Model 720-X EN/ES

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.

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



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 pressureModerated 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

- Fix Proportion PRV 720-PD
- Pressure management valve 7PM
- 2-way control 720
- Anti cavitation cage 720-C2
- Safety valve 720-TC
- Independent check feature 720-2S
- Check valve 720-20
- Solenoid control 720-55
- Electrically selected multi-level setting 720-45
- High sensitivity pilot 720-12
- Downstream over pressure guard 720-48
- See relevant BERMAD publications.



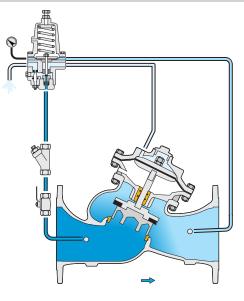
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Link to Animation

Waterworks

Model 720-X EN/ES





This drawing refers to 11/2 – 8"; 40-200 mm sized valves only. For other sizes please refer to the Model's IOM.

Main Valve

Valve Pattern: "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

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 pages.

700 SIGMA Series

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. For lower pressure requirements consult factory.
- Minimum operating pressure: 0.7 bar; 10 psi.

