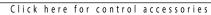
PRESSURE REDUCING VALVE

Model 720 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.

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 "25". 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.







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

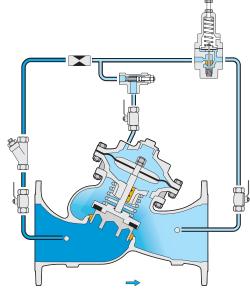
Major Additional Features

- Fixed Proportion PRV 720-PD
- Pressure management valve 7PM
- 3-Way control 720-X
- Anti-cavitation cage 720-C2
- Safety valve 720-TC
- Independent check feature 720-2S
- Hydraulic 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.









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

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.

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.
- $\bullet \ \ \text{Minimum operating pressure: 0.7\,bar/10\,psi. For lower pressure requirements consult factory.}$

