ELECTRONIC CONTROL VALVE

Model 718-03-B EN/ES

Electronic control valve that combines the advantages of an excellent modulating, line pressure driven, hydraulic control valve with those of electronic control. In response to signals from the electronic controller, the valve changes its opening position per preset values programmed into the controller. The valve is double chamber actuated and is powered to fully open and close even at very low pressure. Both the valve's opening and closing speeds are controllable and onsite adjustable.

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.



Click here for control accessories

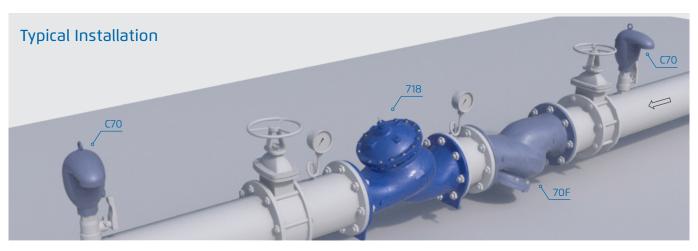


Features and Benefits

- 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 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

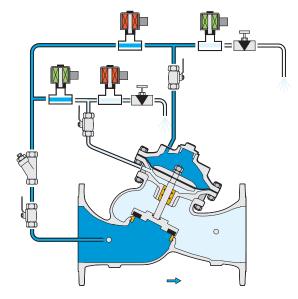
- Valve position transmitter 718-03-Q
- Relief override 718-03-30
- Flow over the seat (fail-safe close) 718-03-0
- Downstream over pressure guard 718-03-48
 See relevant BERMAD publications.



All images in this catalog are for illustration only







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

Solenoids Standard Materials:

Body: Brass or Stainless Steel **Elastomers:** NBR or FPM **Enclosure:** Molded Epoxy

Solenoid Electrical Data:

Voltages:

(AC): 24, 110-120, 220-240, (50-60Hz) (DC): 12, 24, 110, 220 **Power Consumption:** (AC): 30VA, inrush; 15VA (8W), holding or

70VA, inrush: 40VA (17.1W), holding (DC): 8-11.6W

Values might vary according to specific solenoid model.

For more details check solenoid product page.

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.
- Minimum Operating Pressure: 0.2 bar; 3 psi. External operating pressure recommended.

