

BOOSTER PUMP CONTROL VALVE QUICK ACTIVE CHECK VALVE

Model 740 EN/ES

Double chambered, hydraulically operated, active check pump control valve that opens fully or shuts off in response to electric signals. The valve isolates the pump from the system during pump startup and shutdown, thereby preventing pipeline surges.

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

- Independent check feature- 740-25
- Pressure sustaining 743
- Pressure reducing 742
- Flow control 747-U
- Pump circulation control 745
- Electronic control 740-18
- Pressure sustaining and Pressure reducing 743-2Q
- See relevant BERMAD publication

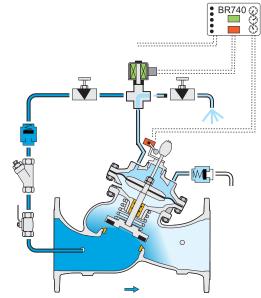


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This drawing refers to 11/2 – 8"; 40-200 mm sized valves only. For other sizes please refer to the Model's IOM.

Main Valve

Valve 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

Solenoid 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): 8-11.6 W Values might vary according to specific solenoid model.

Pilot Options:

For more details check solenoid product page

BR 740-E Controller:

Supply Voltage: 110, 230 VAC 50/60Hz Power Consumption: <8VA Solenoid Circuit Fuse: 2A (internal) Pump Control Circuit Fuse: 1A (internal) Dimensions: 96x96x166mm (DIN), 0.75kg Housing Material: NORYL (DN 43700)

Limit Switch:

Switch Type: SPDT Electrical Rating: 10A, type gl or gG Operating Temperature: Up to 85°C (185°F) Enclosure Rating: IP66

Notes

- Recommended maximum flow velocity: 6.0 m/sec; 20 ft/sec.
- Minimum operating pressure: 0.7 bar /10 psi. For lower pressure requirements consult factory.

