

BOOSTER PUMP CONTROL VALVE

with Opening and Closing Speed Controls and Limit Switch

Model 740-03-S

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.

The BERMAD 700 SIGMA EN/ES series valves are hydraulic globe valves with a raised seat and double chamber actuator. They provide unobstructed flow, effective high-pressure modulation, and minimal cavitation, complying with various potable water standards.



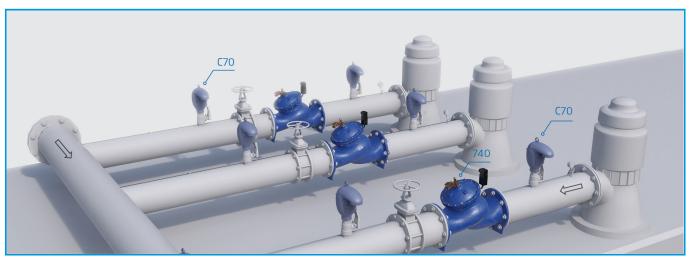
Features & Benefits

- 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

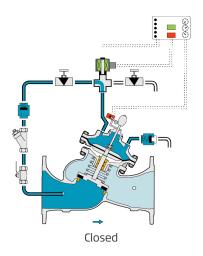
Typical Applications

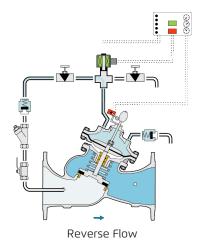
Pumping stations - Controls pump start-up and shut-down

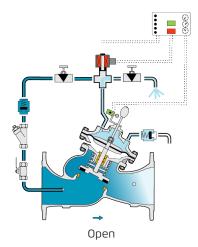
Typical Installation











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

Main Valve

Size Range:

EN Series: 1½"-16"; DN40-400 **ES Series:** 2½"-24"; DN65-600

Pattern: "Y" (globe)

Pressure Rating: 250 psi; 400 psi

End Connection: Flanged

Plug Types: Flat disc, V-port, Cavitation cage

Temperature Rating: 180°F For 140–180°F consult factory

Standard Materials:

Body & Cover: Ductile Iron

Bolts, Nuts & Studs: Stainless Steel

Internals: Stainless Steel, Tin Bronze, Coated Steel &

POM

Diaphragm: Fabric-reinforced synthetic rubber

Seals: Synthetic rubber

Coating: Dark blue Fusion bonded epoxy

For other materials contact BERMAD

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): 8-11.6W

Values may vary according to specific solenoid model. For more details check solenoid product page.

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.

For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the BERMAD website.



www.bermad.com