BOOSTER PUMP CONTROL VALVE

Pressure Sustaining and Reducing

Model 743-M5/M5L/M6

Hydraulically operated, pump control, pressure sustaining & reducing 3-Way control valve. It opens/closes in response to electric signals, isolating the pump from the system during startup and shutdown, thereby preventing pipeline surges. While open, it sustains minimum pump discharge pressure to ensure optimal pump operation. It also reduces upstream pressure to lower constant downstream pressure.

The BERMAD 700 Series large size control valves are hydraulically operated, diaphragm actuated type. Unique hydro-dynamic globe valve design with a special open plug provides high flow capabilities. The valves are available in the standard configuration or with an Independent Check Feature code "2S".



Click here for control accessories



Features and Benefits

- Hydrodynamic wide globe valve body provides:
 - Higher flow (Kv; Cv) than standard globe valves
 - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can work without an external source of power.
- Wide range of options and accessories:
 - One-way or two-way flow direction
 - V-Port
 - Cavitation cage
 - Visual position indicator
 - Limit switches
 - Analog opening output

- Large selection of control accessories
- Double chamber actuation (700-M6)
- Large inspection and service ports (700-M5L)

Major Additional Features:

- Independent check feature 743-2S-M5/M5L/M6
- Differential pressure sustaining 743-06-M5/M5L/M6
- 3-Way control 743-X-M5/M5L/M6
- Flow control 747-U-M5/M5L/M6
- Pressure reducing 742-M5/M5L/M6
- Pump circulation control 745-M5/M5L/M6
- Electronic control 740-18-M5/M5L/M6
- Pressure sustaining and Pressure reducing 743-2Q-M5/M5L/M6

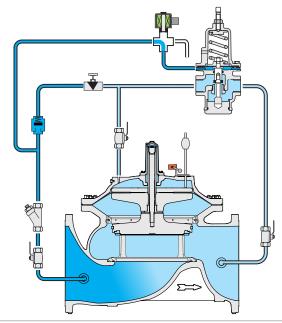
See relevant BERMAD publication



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Main Valve

Valve Pattern: Globe

Size Range: DN 500-1200; 20"-48" Pressure Rating: 40 bar; 600 psi End Connections: Flanged

Temperature Rating: 60°C; 140°F for Cold water applications

Optional higher temperature: Available on request

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): 8-11.6W

Values might vary according to specific solenoid model.

BR 740-E Controller:

Supply Voltage: 110, 230 VAC 50/60Hz

Power Consumption: <8VASolenoid 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

