

ELECTRONIC CONTROL VALVE

Model 718-03-M5/M5L/M6

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. Both the valve's opening and closing speeds are controllable and on-site adjustable.

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](#)



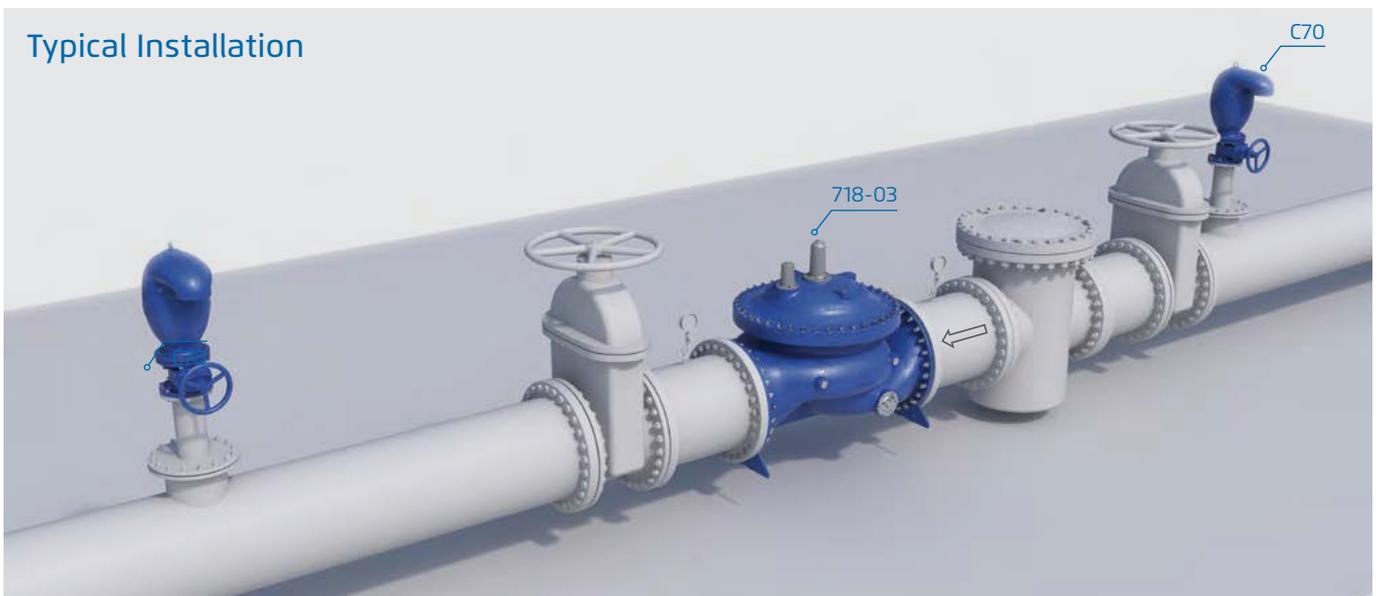
Features and Benefits

- 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)

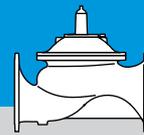
Major Additional Features

- Full powered opening and closing – 718-03-B-M5/M5L/M
 - Valve position transmitter – 718-03-Q-M5/M5L/M
 - Downstream over pressure guard – 718-03-48-M5/M5L/M
 - Relief override – 718-03-3Q-M5/M5L/M
 - Independent Check Feature -718-03-2S-M5/M5L/M6
 - Hydraulic check valve – 718-03-20-M5/M5L/M
 - Flow over the seat (fail-safe close) – 718-03-0-M5/M5L/M
- See relevant BERMAD publication

Typical Installation

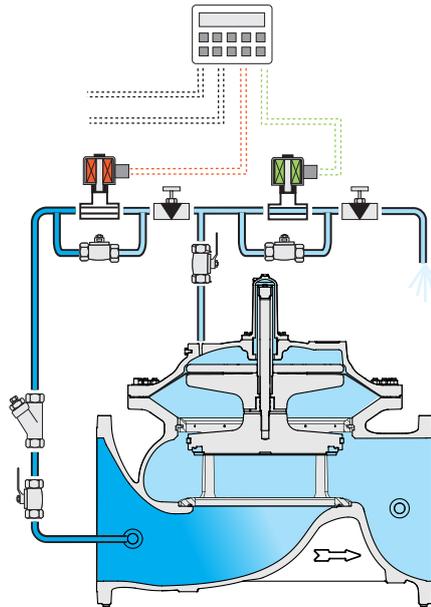


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CLOSED

OPEN



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

For above - 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

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.

