

SURGE ANTICIPATING VALVE

Model 735-55-M-M5/M5L/M6

Hydraulically operated, solenoid controlled, off-line surge anticipating valve that immediately opens in response to an electric signal. The pre-opened valve dissipates the returning high pressure wave, eliminating the surge. The valve smoothly closes drip tight as quickly as the relief feature allows, thereby preventing closing surge. The valve also relieves excessive system 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](#)



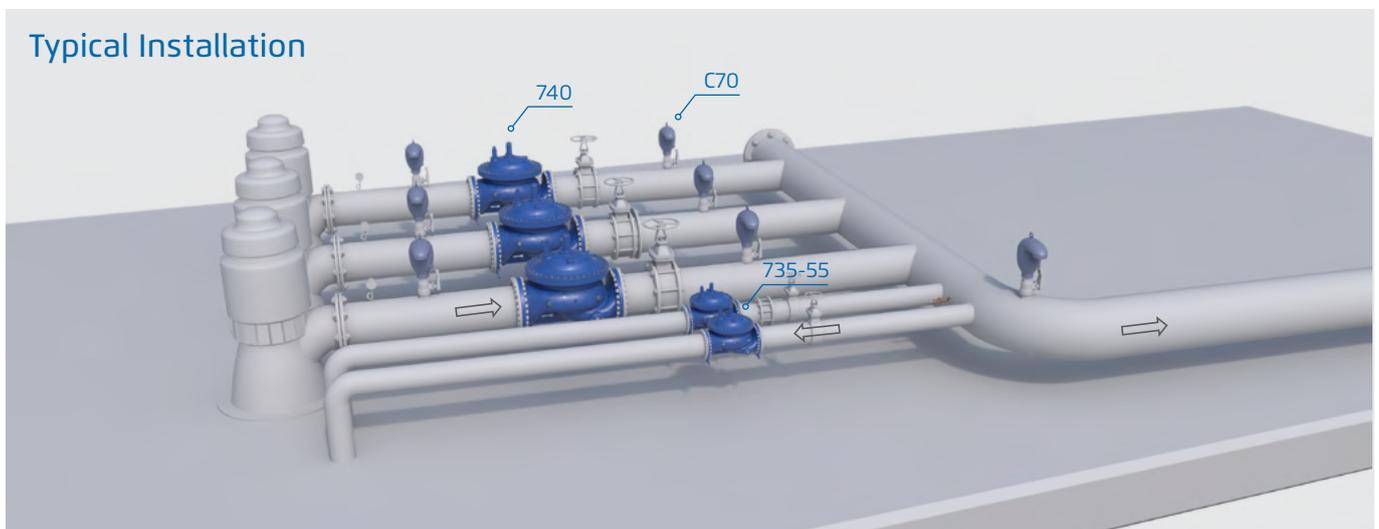
Features and Benefits

- 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)

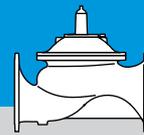
Major Additional Features:

- Quick pressure relief valve – 73Q-M5/M5L/M6
 - Hydraulic/Electric override – 735-55-09-M-M5/M5L/M6
 - Independent Check Feature – 735-55-M-2S-M5/M5L/M6
- See relevant BERMAD publication

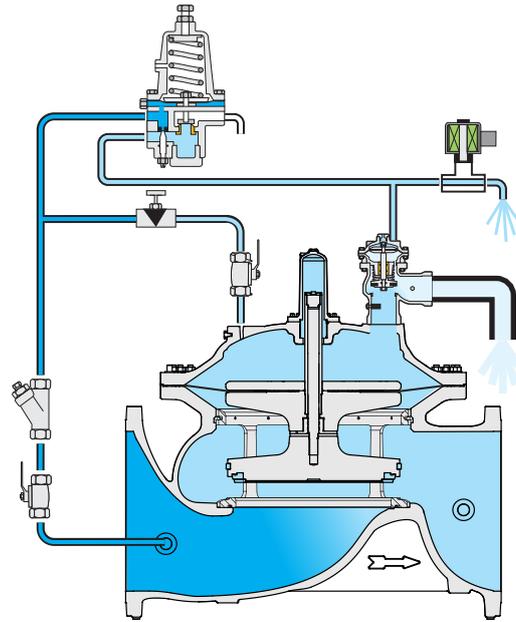
Typical Installation



All images in this catalog are for illustration only



- CLOSED
- L.P Regulating
- H.P Regulating



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
- Pilot standard materials:**
 - Body:** Stainless Steel, Bronze or Brass
 - Elastomers:** Synthetic Rubber
 - Spring:** Stainless Steel
 - Internals:** Stainless Steel
- Required data for surge analysis:**

Pipe profile and characteristic, pumping station full details, valves and reservoirs.

For more details check solenoid product page.

Notes

- Full system data is required for surge analysis and optimal valve sizing.
- A flow stem enables limiting valve opening stroke, adjusting precisely the required flow through the valve.
- Recommended maximum flow velocity: 15m/sec; 50ft/sec.
- Minimum operating pressure: 0.7 bar /10 psi. For lower pressure requirements consult factory.

