SURGE-ANTICIPATING CONTROL VALVE

with Solenoid Control

Model 735-55-M5-M5M-M5L

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 control valves are hydraulically operated and diaphragm actuated. Their unique hydro-dynamic globe design with an open plug ensures high flow capabilities.

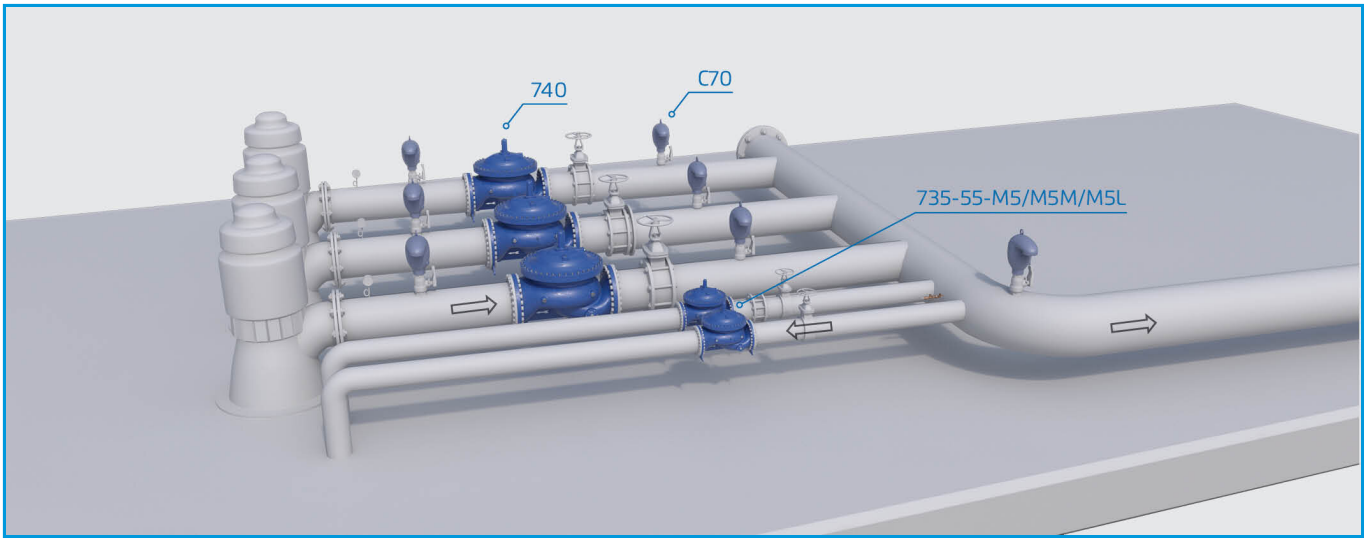
Features & Benefits

- Certified to functional and drinking water standards: EN-1074, NSF-ANSI 61-372, WRAS, AS 5081 and others
- Hydrodynamic wide globe valve body provides:
  - Higher flow coefficient (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:
  - Visual position indicator
  - Limit switches
  - Analog opening output
  - Large selection of control accessories
  - Large inspection and service ports (700-M5L)

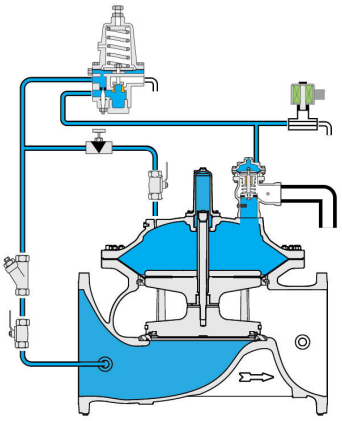
Typical Applications

- Pumping stations - Surge Control

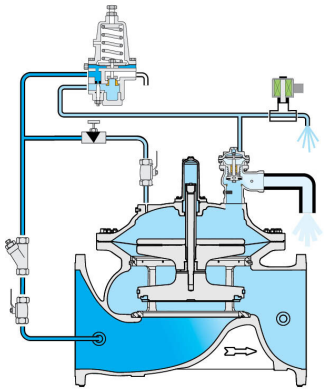
Typical Installation



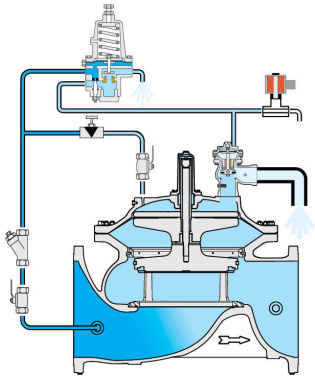
All images in this catalog are for illustration only



Closed



L.P Electric Opening



H.P Regulating

Main Valve

Size Range: 20"-36"; DN500-900
Pattern: Globe
Pressure Rating: 400 psi
End Connection: Flanged
Temperature Rating: 180°F
For 140–180°F consult factory

Standard Materials:

Body & Cover: Ductile Iron
Cover Bolts: Stainless Steel
Internals: Epoxy coated Ductile Iron, Stainless Steel & Tin Bronze
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

Pilot standard materials:

Body: Stainless Steel, Bronze & Brass
Elastomers: Synthetic Rubber
Internals and Spring: Stainless Steel

Pilot Options:

Various pilots and calibration springs are available.
Select according to valve size and operating conditions.
For more details check relevant pilots product pages.

Solenoid standard materials:

Body: Brass or Stainless Steel
Elastomers: NBR or FPM
Enclosure: Molded Epoxy

Solenoid Electrical Data:

Voltages: (DC): 24
Power Consumption: (DC): 8-11.6W
Values may vary according to specific solenoid model.

Notes

- Full system data is required for surge analysis and optimal valve sizing.
- Recommended maximum flow velocity: 15 m/sec; 50 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.