BERMAD Buildings & Construction

Potable Water • Pump Applications



700 Series Model 735-55-M

SURGE ANTICIPATING CONTROL VALVE

with Solenoid Control

Model 735-55-M

The Model 735-55 Surge Anticipating Valve with Solenoid Control is an off-line, hydraulically operated, diaphragm actuated valve. The valve immediately opens in direct response to any power failure even prior to the pressure drop associated with abrupt pump stoppage. The pre-opened valve dissipates the returning high pressure wave, eliminating the surge. The 735-55-M, sensing line pressure, smoothly closes drip-tight as quickly as the relief feature allows, while preventing closing surge. The valve also relieves excessive system pressure.

BERMAD 700 series valves are hydraulic, oblique pattern, globe valves with double chamber unitized actuator, that can be disassembled from the body as a separate integral unit. The valves hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications.





A soft start/stop pump station with emergency surge protection - in a case of power failure the UPS backed controller will activate the 735-55-M to open immediately and anticipate any returning

surge from the riser, thus reducing water hammer damage and prolonging equipment lifetime.

Typical Application

- Transfer pumps systems
- Direct supply pumps
- Includes excessive pressure relief

 Where discharge line is short and wave critical time is less than 3 seconds

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Features and Benefits

- Replaces surge air vessels Economy of space, lower investment and maintenance costs
- Adjustable Excessive Pressure Pilot Easy field pressure setting and calibration
- High Quality Construction Materials Reliable, resilient and long lasting operation
- Robust Design Suitable for constant, intense operation
- In-Line Serviceable Quick and easy maintenance and service
- Line Pressure Driven Independent operation with solenoid trigger
- Unitized Actuator Assembly Minimal downtime
- Hydrodynamic Body with Unobstructed Flow Path Minimal noise and cavitation damage
- Protected Diaphragm Minimizes chance of damage caused by debris in the pipeline

Note: the model comes equipped with flow stem for sizing flexibility

Technical Data General:

End connections:

Grooved / Flanged / Threaded Pressure Rating: 400 psi; PN25 Valve Pattern: Y (Oblique) / Angle Working Temperature:

Cold Water up to 140°F; 60°C Optional Higher Temperatures:

Available on request

Main Valve Materials:

Body, Cover and Partition:

Standard: Ductile Iron Optional: Stainless Steel 316 Seat: Stainless Steel

Internals:

Stainless Steel, Tin Bronze & Coated Steel,

Diaphragm: Fabric-reinforced synthetic

rubber

Seals: Synthetic rubber

Coating: Blue Fusion bonded epoxy

Control Trim Materials:

Control Accessories:

Stainless Steel / Bronze & Brass Tubing: Stainless Steel / Copper Fittings: Stainless Steel / Brass

Solenoid:

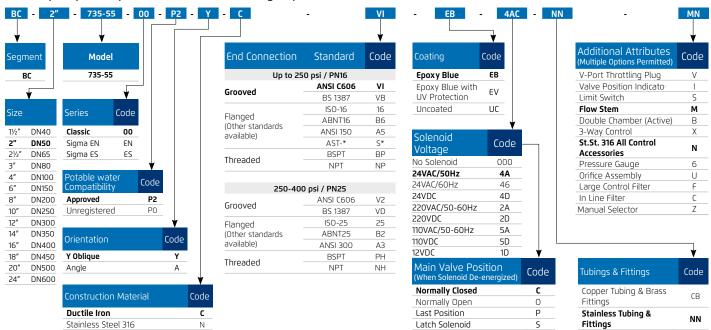
Body: Stainless Steel / Brass Elastomers: Synthetic Rubber **Enclosure:** Molded Epoxy

For other optional material consult BERMAD.

** Materials may vary according to sanitary standard.

How To Order

Please Specify the requested valve in the following sequence:











NSF 61/372 USA Bulgaria

Bulgarkontrola

France

GOST Russia

Poland

Manufactured and Tested According to AWWA C530-12 Requirements