BERMAD Buildings & Construction

Potable Water • Pump Applications



700 Series Model BC-735-55-P

SURGE ANTICIPATING CONTROL VALVE

with Solenoid Control

Model BC-735-55-P

The Model BC-735-55-P 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 BC-735-55-P, 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 globe style control valves available in either standard Y (oblique) or angle pattern configurations. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be removed from the body as a separate integral unit.





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

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

- Where discharge line is short and wave critical time is less than 3 seconds
- Includes excessive pressure relief

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Features and Benefits

- Replaces surge air vessels Economy of space, lower investment and maintenance costs
- 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
- Adjustable Excessive Pressure Pilot Easy field pressure setting and calibration

Technical Data

End Connections: Grooved, Flanged, Threaded Pressure Rating: 250, 400 psi, PN16, 25 Valve Pattern: Y (Oblique) and Angle Working Temperature: Water up to 140°F, 60°C

Main Valve Materials:

Body, Cover and Partition:

Standard: Ductile Iron Optional: Stainless Steel 316

Internals:

Stainless Steel, Bronze and Coated Steel

Control Accessories:

Stainless Steel 316 / Bronze and Brass

Tubing & Fittings:

Stainless Steel 316 / Copper and Brass / Reinforced Nylon and Brass

Diaphragm:

EPDM, Nylon Fabric-Reinforced

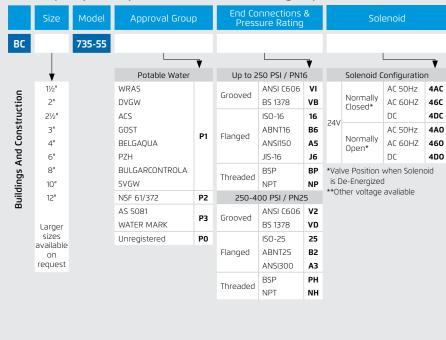
O-Rings: EPDM Seal: NBR

Coating: Blue Fusion bonded epoxy

* For other optional material consult BERMAD

How to Order

Please Specify the requested valve in the following sequence:



























NSF 61/372

DVGW Germany

France

GOST Russia BELGAQUA Belgium

Australia

Australia

Poland

Bulgaria

SVGW Switzerland

ISO 9001 - 2008