



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



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:

	Size	Model	Approval Group	End Connections & Pressure Rating			Solenoid			
BC		735-55								
Buildings And Construction										



NSF 61/372
USA



WRAS
UK



DVGW
Germany



ACS
France



GOST
Russia



BELGAQUA
Belgium



AS 5081
Australia



Watermark
Australia



PZH
Poland



Bulgarcontrola
Bulgaria



SVGW
Switzerland



ISO 9001 - 2008