PRESSURE RELIEF / SUSTAINING VALVE

Model BC-730-P

Pressure relief/sustaining hydraulically operated control valve that can fulfill either of two separate functions: When installed in-line, it sustains minimum pre-set, upstream (back) pressure regardless of fluctuating flow or varying downstream pressure. When installed as a "branched from the line" circulation valve it relieves excessive line pressure when above maximum pre-set.

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.

The BERMAD BC-730-P As a pressure sustaining valve that recycles water back to the reservoir at stagnate pump operation, it will remain close when raiser pressure is normal. In an event where the pump works at low flows and high head, the BC-730-P will open to allow sufficient water circulation and pump cooling.

Also featured is the BC-740-P Active-Check Valve that coordinates start / stop functions simultaneously with the pump controller and the BC-735-55-P Surge Anticipating Valve; Will pre-active electrically open to relieve spikes in excess pressure case of power failure and surges.

Typical Application

- Protection from the effects of bursts and extreme pressure in buildings potable water systems
- High pressure safety relief valve in potable water pressure reduction systems
- Pressure sustaining control of buildings reservoir filling systems such as: basement, roof-top, pressure breaking and emergency tanks, where the supply line also feeds additional high priority users
- As a safety device for pumping stations temporarily operated out of their regular regime, where stable and constant pressure relief is required

All images in this catalog are for illustration only

BERMAD Buildings & Construction

700 Series

Potable Water • Pump Applications • Pressure Control

Model BC-730-P

Features and Benefits

- 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, no external power needed
- Unitized Actuator Assembly – Minimal downtime
- 2-Way Control Loop – Immediate, accurate response to sudden system variations
- Adjustable Pilot – Easy field pressure setting and calibration
- Hydrodynamic Body with Unobstructed Flow Path – Minimal noise and cavitation damage
- Protected Diaphragm – Minimizes chance of damage caused by debris in the pipeline

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

How to Order

Please Specify the requested valve in the following sequence:

	Size	Model	Approval Group	End Connections & Pressure Rating
BC		730		

Buildings And Construction

Size
1½"
2"
2½"
3"
4"
6"
8"
10"
12"
Larger sizes available on request

Approval Group	
Potable Water	
WRAS, DVGW, ACS, GOST, BELGAQUA, PZH, BULGARCONTROLA, SVGW	P1
NSF 61/372	P2
AS 5081, WATER MARK	P3
Unregistered	P0

End Connections & Pressure Rating		
Up to 250 PSI / PN16		
Grooved	ANSI C606	VI
	BS 1378	VB
Flanged	ISO-16	16
	ABNT16	B6
	ANSI150	A5
	JIS-16	J6
Threaded	BSP	BP
	NPT	NP
250-400 PSI / PN25		
Grooved	ANSI C606	V2
	BS 1378	VD
Flanged	ISO-25	25
	ABNT25	B2
	ANSI300	A3
Threaded	BSP	PH
	NPT	NH

Additional Configurations & Options >

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