

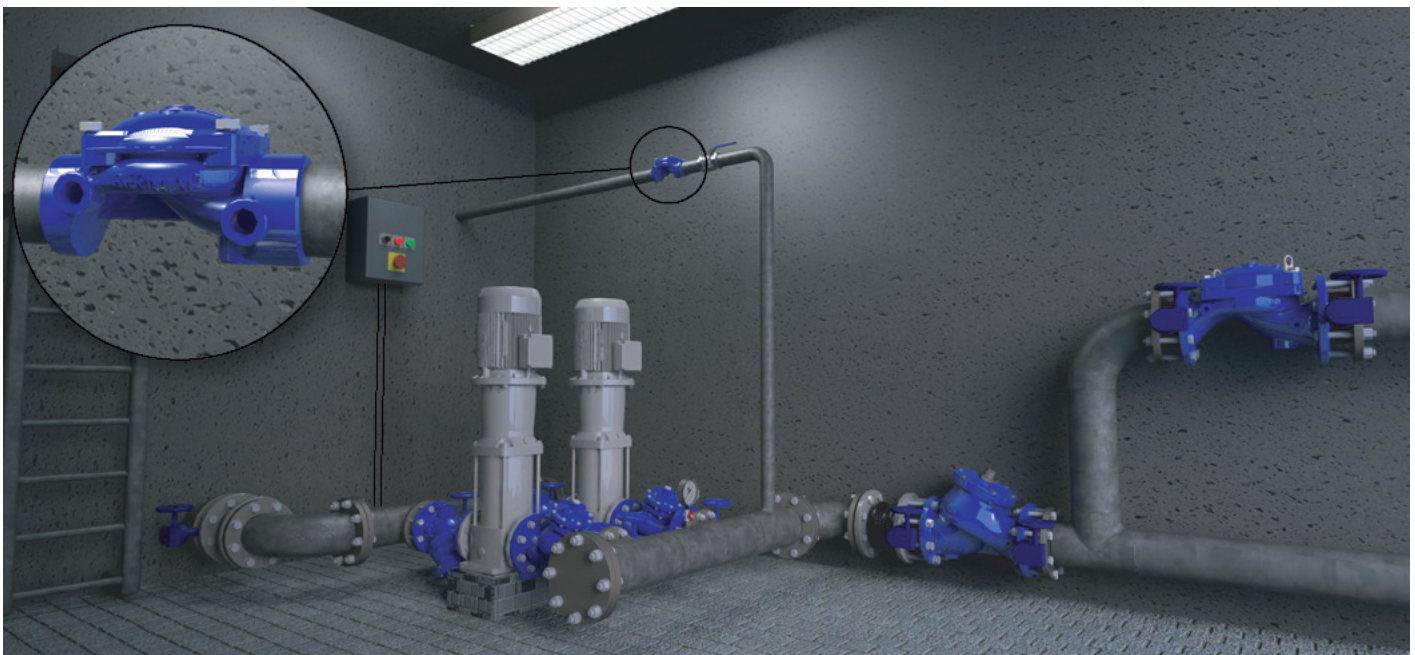


PRESSURE RELIEF / SUSTAINING VALVE

Model BC-430-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 400 series valves are hydraulically operated, simple and reliable, globe valves with full bore hydrodynamic body providing an unobstructed flow path and superior performance. The valves balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valves only moving part.



The BERMAD BC-430-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-430-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.

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
- Pressure sustaining control in buildings pressure zones which contain various prioritized users
- As a safety device for pumping stations temporarily operated out of their regular regime, where stable and constant pressure relief is required



Features and Benefits

- High quality construction materials ensure reliable, long lasting operation
- Full bore valve port area and hydrodynamic body ensure unobstructed flow path; minimal pressure loss with low cavitation damage
- Fully supported and balanced rolling diaphragm - low actuation pressure and excellent low flow regulation performance
- Ensured operation after long standby periods
- Straightforward three major components design - easy and simple on-site inline maintenance with minimal down time
- 2-way pilot and control loop that continuously sense upstream pressure and immediately control the valve accordingly, providing stable, reliable and accurate pressure modulation under a wide range of flow-rate and pressure conditions
- Line Pressure Driven - Independent operation, no external power needed
- On-site adjustable pilot allows simple and easy calibration of required pressure level

Technical Data

General:

End connections:

- Grooved: 2", 3"-8"
- Flanged: 1½"-14"
- Threaded: 1½"-3"

Pressure Rating: 230 psi; PN16

Valve Pattern: Y (Oblique) / Angle

Working Temperature:

Cold Water up to 122°F; 50°C

Optional Higher Temperatures:

Available on request

Main Valve Materials:

Body, Cover and Partition:

- Standard: Ductile Iron
- Optional: Stainless Steel 316

Spring: Stainless Steel

Diaphragm Assembly:

- NR / EPDM with Reinforcing Vulcanized Radial Seal Disk:
- 1½"-6": Plastic
- 8"- 10": Iron
- 12"-14": Iron with St.St Upper Guide

Coating: Blue Fusion bonded epoxy

Control Trim Materials:

Control Accessories:

- Stainless Steel / Bronze & Brass
- NBR / EPDM

Tubing: Stainless Steel / Copper

Fittings: Stainless Steel / Brass

* 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:

BERMAD Segment	Size ¹	Model	Approval Group	End Connections & Pressure Rating	Ordering code would be
BC	3"	430	P0	16	BC-3"-430-P0-16
Buildings & Constructions	Inch mm	Potable Water ²	Up to 250 psi / PN16		
	1½" 40	European Standards	Grooved	ANSI C606	VI
	2" 50	NSF 61/372		BS 1378	VB
	2½" 65	Australia Standards	Flanged	ISO-16	16
	3" 80	Unregistered		ABNT16	B6
	4" 100			ANSI 150	A5
	6" 150			AST-*	S*
	8" 200			BSP	BP
	10" 250			NPT	NP
	12" 300				

1. Larger sizes available on request
2. BERMAD complies with a wide range of international potable water standards. Please consult with BERMAD about compliance.

