



PRESSURE REDUCING SYSTEM

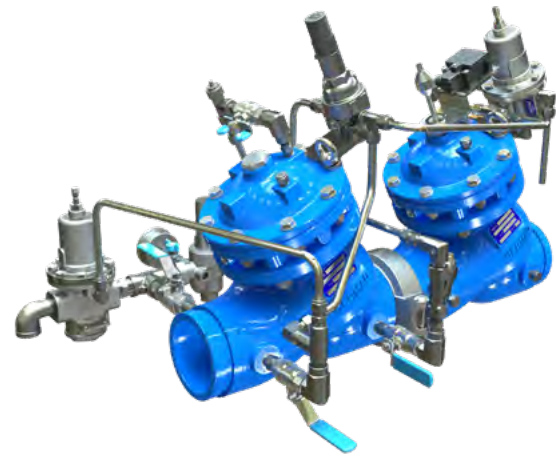
With Hydraulic Back-up Valve, Low Flow Bypass and Pressure Relief Valve

Model BC-72S-B2H-P

72S-B2H is potable water pressure reducing system that combines hydraulically operated emergency backup valve, relief device and integral off peak flow modulation. The system reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand or varying upstream pressure. It protects the consumers from excessive pressure and ensures continues water supply in emergency situations.

The "Watchdog" backup valve is fully open in normal operation due to its double chamber configuration, minimizing head loss and maximizing flow through the valve. Should pressure rise downstream of the BERMAD BC-720-P because of valve failure, the "Watchdog" quickly responds and triggers an alarm, while providing stable pressure to consumers until the PRV is repaired.

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.



Pressure Reducing System, featuring a BERMAD BC-72S-B2H-P system to reduce high incoming pressure to a lower downstream set-point while minimizing the possibility of total water shut-off, a low flow bypass for off peak demand operation and integrated relief

device. For information on other BERMAD products in this system please see the product data sheet for the BERMAD BC-70F-P and the BERMAD BC-A30-P.

Typical Application

- Reduces pressure for separate pressure zones in hi-rise buildings
- Reduces incoming pressure from municipal water supply
- Minimizes water supply disruption due to PRV failure
- Allows for both "on floor" and "mechanical floor" installations to provide the most convenient access



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
- Hydrodynamic Body with Unobstructed Flow Path - Minimal noise and cavitation damage
- 3-way pilot control - Provides full opening of the backup valve
- Compact Structure - Installation in confined spaces
- Integrated Low Flow and Relief Devices - Unitized factory assembled unit
- Built-in Redundancy - Safe and continuous water supply
- Backup Valve Operation Indication - Immediate notification to maintenance personnel
- Integrated by-pass and V-Port Throttling Plug - stability in wide range of flows

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

* 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	Series	Approval Group	End Connections & Pressure Rating
BC	4"	72S-B2H	EN	P1	16

Buildings & Constructions	Inch	mm	Series	Potable Water ²	Approval Group	Up to 250 psi / PN16		
				Classic 00	European Standards	P1	Grooved	ANSI C606
	1½"	40	Sigma EN EN	NSF 61/372	P2		BS 1387	VB
	2"	50	Sigma ES ES	Australia Standards	P3	Flanged	ISO-16	16
	2½"	65		Unregistered	P0		ABNT16	B6
	3"	80					ANSI 150	A5
	4"	100					AST-*	S*
	6"	150				Threaded	BSP	BP
	8"	200					NPT	NP
	10"	250						
	12"	300						

250-400 psi / PN25		
Grooved	ANSI C606	V2
	BS 1387	VB
Flanged	ISO-25	25
	ABNT25	B2
	ANSI 300	A3
Threaded	BSP	PH
	NPT	NH

Ordering code would be

BC-4"-72S-B2H-EN-P1-16

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



NSF 61/372
USA



Bulgarkontrola
Bulgaria



ACS
France



GOST
Russia



PZH
Poland

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