



PRESSURE REDUCING SYSTEM

With "Watchdog" Valve, Low Flow Bypass and Pressure Relief Valve

Model BC-72S-B2H-P

Hydraulically operated, diaphragm actuated pressure reducing system, consisting of a BERMAD BC-720-P PRV, an integral "Watchdog" backup valve, low flow bypass and relief device. The system reduces a high upstream pressure to a lower, constant downstream pressure, regardless of fluctuating demand or varying upstream pressure. The "Watchdog" backup valve is fully open in normal operation, should pressure rise downstream of the BERMAD BC-720-P, the "Watchdog" quickly responds and triggers an alarm, while providing stable pressure to consumers until the PRV is repaired.

BERMAD water control systems for buildings combine valves and control elements into one compact, factory assembled and calibrated integral structure, designed to perform a specific water control task. These control systems provide builders and engineers with simple water control solutions that are easy to install, inspect and maintain.



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 malfunction
- Suitable for wide range of flow regimes
- 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, no external power needed
- 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 Pilot – Easy field pressure setting and calibration
- 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
- Double Chamber Actuator – Rapid response to system changes with no hammer effect
- V-Port Throttling Plug – Low flow stability

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			
BC		72S-B2H					
Buildings And Construction	1½" 2" 2½" 3" 4" 6" 8" 10" 12" Larger sizes available on request	Potable Water					
		WRAS	P1	Grooved	ANSI C606	VI	
		DVGW			BS 1378	VB	
		ACS			ISO-16	16	
		GOST		Flanged	ABNT16	B6	
		BELGAQUA			ANSI150	A5	
		PZH			JIS-16	J6	
		BULGARCONTROLA		Threaded	BSP	BP	
		SVGW			NPT	NP	
		NSF 61/372			250-400 PSI / PN25		
		AS 5081		P2	Grooved	ANSI C606	V2
		WATER MARK				BS 1378	VD
		Unregistered				ISO-25	Z5
P3	Flanged	ABNT25		B2			
		ANSI300	A3				
		Threaded	BSP	PH			
NPT	NH						

