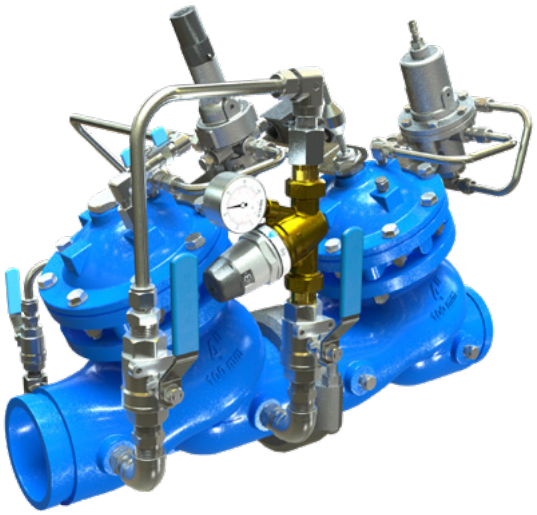
PRESSURE REDUCING SYSTEM

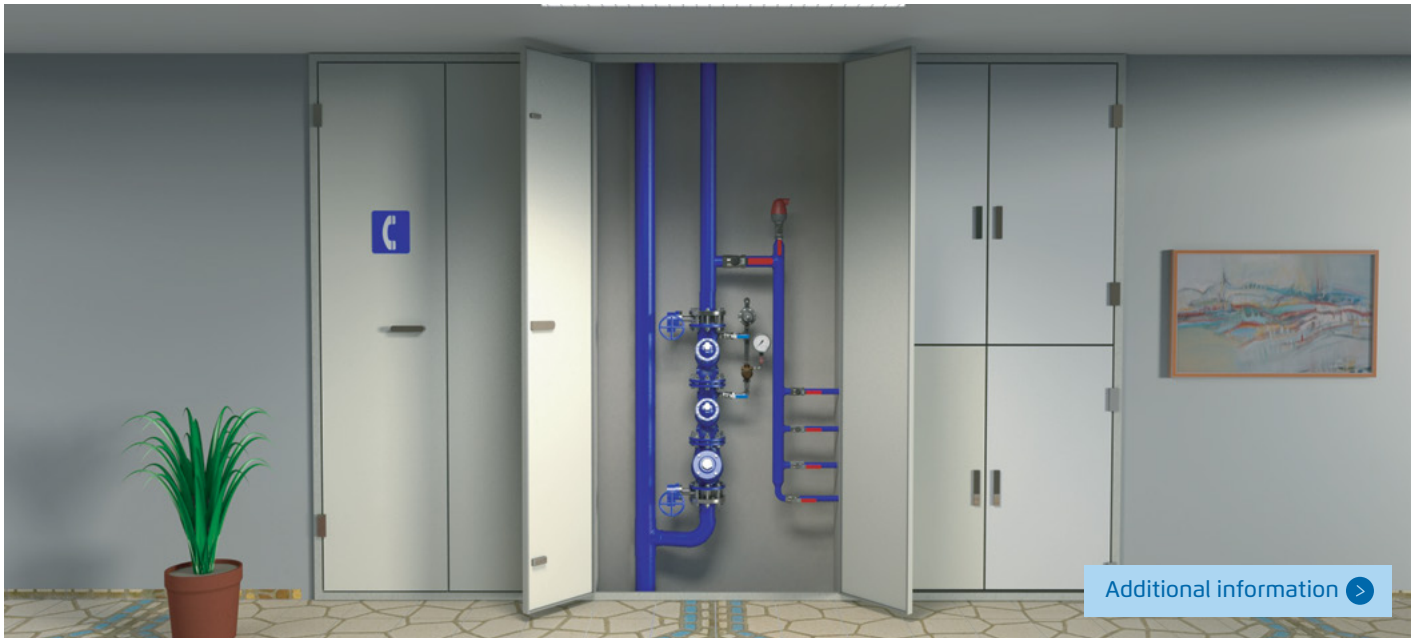
With "Watchdog" Hydraulic Backup Valve and Off-Peak Flows Bypass

Model BC-72S-2B-H-P



Hydraulically operated, diaphragm actuated pressure reducing system, consisting of a BERMAD BC-720-2B-P PRV with off-peak flow bypass and an integral "Watchdog" backup valve. 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 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.



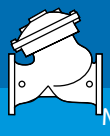
Pressure Reducing System, featuring a BERMAD BC-72S-2B-H-P system to reduce high incoming pressure to a lower downstream set-point while minimizing the possibility of total water shut-off with integrated low flow bypass branch for low demand operation. For information on the other BERMAD products in this system please see the product data sheet for the BERMAD BC-73Q-P and BERMAD BC-70F-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

All images in this catalog are for illustration only

BERMAD Buildings & Construction



700 Series

Potable Water • Pressure Control

Model BC-72S-2B-H-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
- Hydrodynamic Body with Unobstructed Flow Path - Minimal noise and cavitation damage
- Integrated by-pass and V-Port Throttling Plug - stability in wide range of flows
- 2-Way Control Loop - Immediate, accurate response to sudden system variations
- Adjustable Pilot - Easy field pressure setting and calibration
- Compact Structure - Installation in confined spaces
- Built-in Redundancy - Safe and continuous water supply
- System Failure Indication - Immediate notification to maintenance personnel

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:
Avaliable 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

Note: Outlet pressure range 1-6 bar; 15-90 psi.

* 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-2B-H	EN	P1	16

Ordering code would be

BC-4"-72S-2B-H-EN-P1-16

BERMAD Segment
Buildings & Constructions

Size[1]	
Inch	mm
1½"	40
2"	50
2½"	65
3"	80
4"	100
6"	150
8"	200
10"	250
12"	300

Model
72S-2B-H

Series	
Classic	00
Sigma EN	EN
Sigma ES	ES

Approval Group	
Potable Water[2]	
European Standards	P1
NSF 61/372	P2
Australia Standards	P3
Unregistered	P0

End Connections & Pressure Rating		
Up to 250 psi / PN16		
Grooved	ANSI C606	V1
	BS 1378	VB
Flanged	ISO-16	16
	ABNT16	B6
	ANSI 150	A5
	AST-*	S*
Threaded	BSP	BP
	NPT	NP
250-400 psi / PN25		
Grooved	ANSI C606	V2
	BS 1378	VB
Flanged	ISO-25	25
	ABNT25	B2
	ANSI 300	A3
Threaded	BSP	PH
	NPT	NH

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

Additional Configurations & Options

NSF 61/372 USA | Bulgarkontrola Bulgaria | ACS France | GOST Russia | PZH Poland