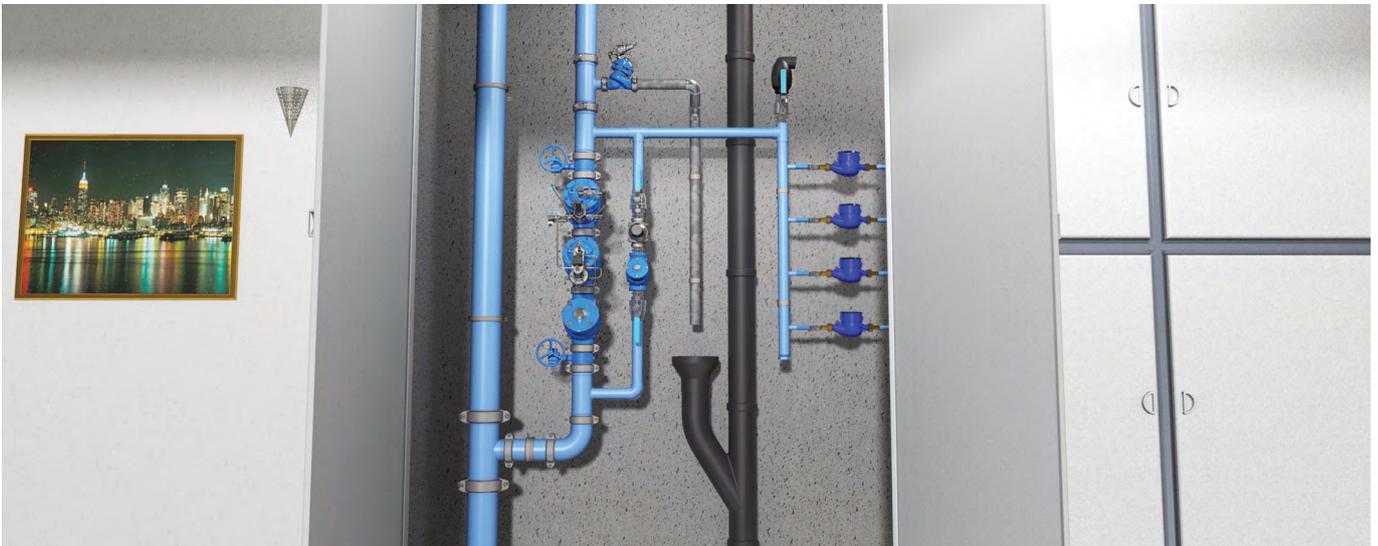


## Pressure Reducing System with "Watchdog" Hydraulic Backup Valve

### Model BC-72S-H-P

Hydraulically operated, diaphragm actuated pressure reducing system, consisting of a BERMAD BC-720-P PRV 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 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 contractors and engineers with simple water control solutions that are easy to install, inspect and maintain.

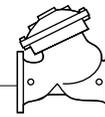


Pressure Reducing System, featuring a BERMAD BC-72S-H-P system to reduce high incoming pressure to a lower downstream set-point while minimizing the possibility of total water shut-off and a low flow bypass branch for low demand operation. For information on the other BERMAD products in this system please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



## 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
- 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
- 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 180°F; 80°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

OR Bronze and Brass

**Tubing & Fittings:** Stainless Steel 316

OR Copper and Brass

OR Reinforced Nylon and Brass

**Diaphragm:** EPDM, Nylon Fabric-Reinforced

**O-Rings:** EPDM

**Seal:** NBR

**Coating:** Fusion Bonded Epoxy, RAL 5017 (Blue)

For other optional materials consult BERMAD

For Dimensions & Weights, IOM and more other detailed engineering data, visit the Series Engineering Documentation or the Downloads Center on the [BERMAD website](http://www.bermad.com)

## Drinking Water Standards, Approvals & Certification:



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



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## How to Order

Please specify the requested valve in the following sequence:

	Size	Model	Scope & compatibility	End Connections & Pressure Rating
Building and Construction	BC	72S-H	Potable Water	Up to 250 psi / PN16
			WRAS	Grooved ANSI C606 V1
			DVGW	Flanged ISO-16 16
			ACS	ABNT16 B6
			GOST	ANSI150 A5
			BELGAQUA	JIS-16 J6
			PZH	Threaded BSP BP
			BULGARCONTROLA	NPT NP
			SVGW	
			NSF 61/372	250-400 psi / PN25
		AS 5081	Grooved ANSI C606 V2	
		WATER MARK	Flanged ISO-25 25	
		Unregistered	ABNT25 B2	
			ANSI300 A3	
			Threaded BSP PH	
			NPT NH	
			Fire Protection	
			UL & FM UF	
			UL UL	
			FM FM	
			Unregistered FO	
			HVAC	
			Unregistered EO	
			Treated Water	
			Unregistered TO	