BERMAD Buildings & Construction

Potable Water • Pressure Control



700 Series Model 72S-H-P

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

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Model 72S-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
- 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 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

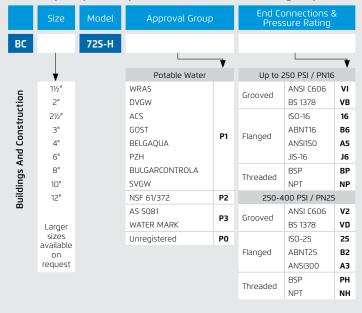
O-Rings: EPDM Seal: NBR

Coating: Blue Fusion bonded epoxy

* For other optional material consult BERMAD

How to Order

Please Specify the requested valve in the following sequence:



























NSF 61/372

WRAS

DVGW

Germany

France

GOST Russia BELGAQUA **Belaium**

AS 5081 Australia

Australia

Poland

Bulgaria

SVGW Switzerland

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