BERMAD Buildings & Construction

Potable Water • Pressure Control



700 Series Model 72S-H

PRESSURE REDUCING SYSTEM

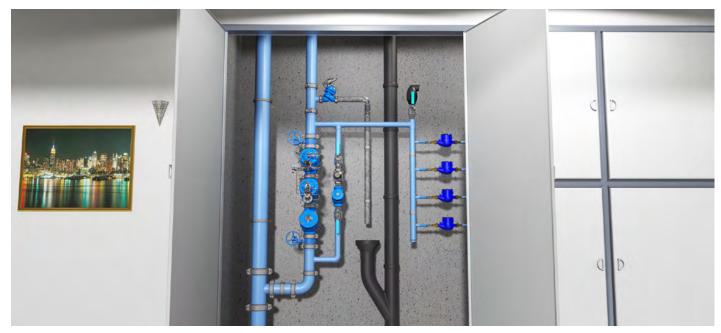
With "Watchdog" Hydraulic Backup Valve

Model 72S-H

Hydraulically operated, diaphragm actuated pressure reducing system, consisting of a BERMAD 720 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 720 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 72S-H 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 73Q and BERMAD 70F.

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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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
- V-Port Throttling Plug Low flow stability
- 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:

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,

POM

Diaphragm: Fabric-reinforced synthetic

rubber

Seals: Synthetic rubber

Coating: Blue Fusion bonded epoxy

Control Trim Materials:

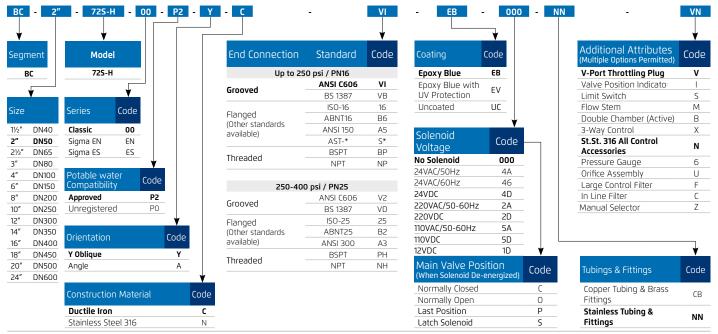
Control Accessories:

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:





NSF 61/372

USA







Bulgarkontrola Bulgaria ACS GOST France Russia

PZH Poland Manufactured and Tested According to AWWA C530-12 Requirements