

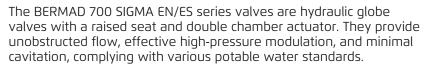


PRESSURE REDUCING SYSTEM

with "Watchdog" Hydraulic Backup Valve and **Low-Flow Bypass**

Model 72S-2B-H

Hydraulically operated, diaphragm actuated pressure reducing system, consisting of a BERMAD 720 PRV, an integral "Watchdog" backup valve and a DPRV. 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 720 because of valve failure, the "Watchdog" quickly responds and triggers an alarm, while providing stable pressure to consumers until the PRV is repaired. The model also includes a low flow bypass regulated by a Direct Acting Pressure Reducing valve mounted on the valve body.





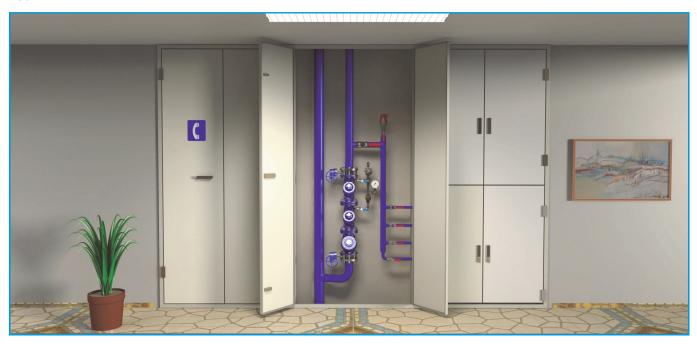
Features & Benefits

- Designed to Stand up to the toughest conditions
 - Excellent anti-cavitation properties
 - Wide flow range
 - High stability and accuracy
 - Drip tight sealing
- Double chamber design
- V-Port throttling plug Very stable at low flow
- Compatible with various standards
- In-line serviceable Easy maintenance

Typical Applications

- Highrise and midrise office and residential buildings -Reducing pressure at the pressure zone inlet
- Where low-flow and no-flow conditions occur
- Municipal systems Reducing pressure at potable water connections to buildings and structures

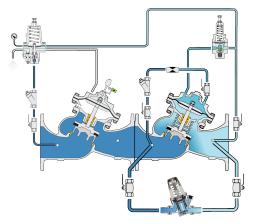
Typical Installation



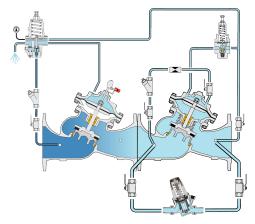
Buildings & Construction

Model 725-2R-H









Watchdog Activated

This drawing refers to $1\frac{1}{2}$ " - 8"; 40-200 mm sized valves only. For other sizes please refer to the Model's IOM.

Main Valve

Size Range:

EN Series: 1½"-8"; DN40-200 **ES Series:** 2½"-10"; DN65-250

Pattern: "Y" (globe)

Pressure Rating: 16 bar; 25 bar **End Connection:** Grooved, Flanged

Temperature Rating: 80°C For 60–80°C consult factory
Standard Materials:

Body & Cover: Ductile Iron

Bolts, Nuts & Studs: Stainless Steel

Internals: Stainless Steel, Tin Bronze, Coated Steel &

POM

Diaphragm: Fabric-reinforced synthetic rubber

Seals: Synthetic rubber

Coating: Dark blue Fusion bonded epoxy

For other materials contact BERMAD

Control System

Standard Materials:

Accessories: Stainless Steel, Bronze & Brass

Tubing: Stainless Steel or Copper **Fittings:** Stainless Steel or Brass

Pilot standard materials:

Body: Stainless Steel, Bronze & Brass **Elastomers:** Synthetic Rubber **Internals and Spring:** Stainless Steel

Pilot Options:

Various pilots and calibration springs are available. Select according to valve size and operating conditions. For more details check relevant pilots product pages.

Low Flow By-Pass:

Body: Brass

Elastomers: Synthetic Rubber

Notes

- Outlet pressure range: 1-6 bar; 15-90 psi.
- Backup pressure settings: 1 bar; 15 psi above PRV.

For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the BERMAD website.



www.bermad.com