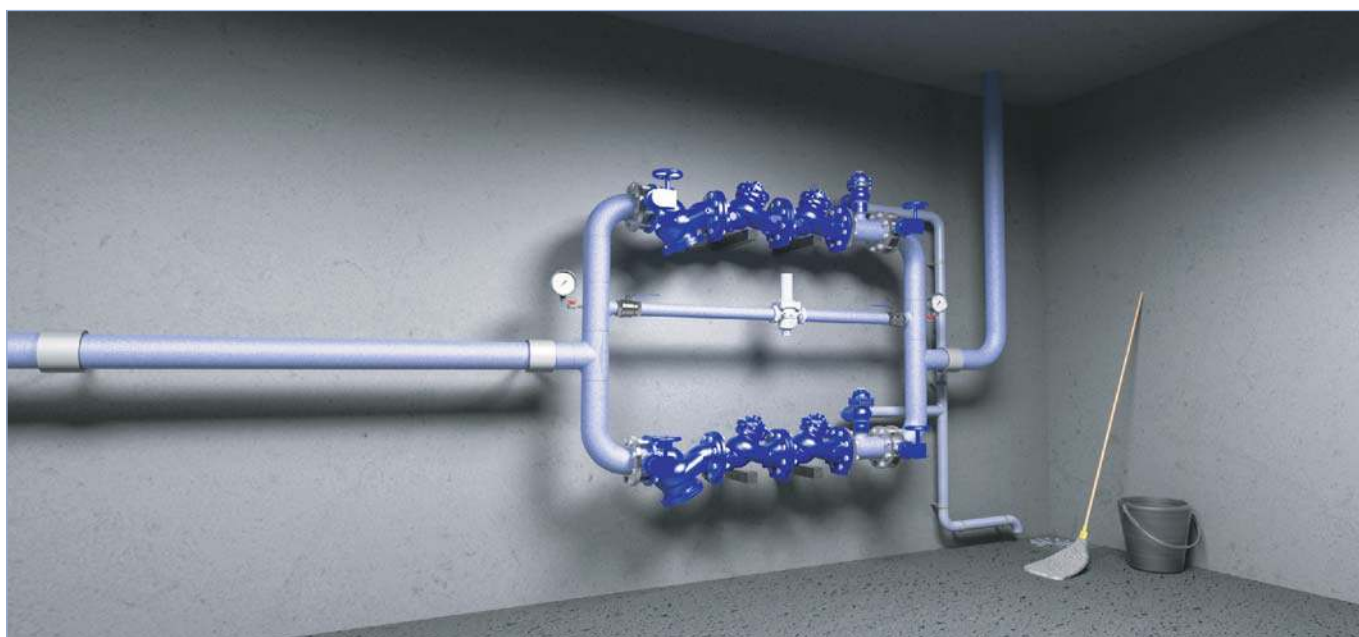




Pressure Reducing Valve

Hydraulically operated pressure reducing control valve that reduces higher upstream pressure to lower constant downstream pressure, regardless of fluctuating demand or varying upstream pressure. BERMAD 700ES series valves are hydraulically operated globe valves in either standard oblique (Y) or angle pattern. They consist of full bore hydrodynamic body for unobstructed flow path, seat assembly and double-chamber unitized actuator that can be disassembled from the body as an integral unit. The 700ES valves have excellent and highly effective modulation capacity in high pressure-differential applications and are designed to operate with minimal cavitation and noise under difficult operation conditions.



For illustration only

Typical Application

- For pressure control of potable water supply lines in buildings operating under tough conditions and intensive use, where maintaining accurate and stable pressure is vital
- In the main supply lines of hi-rise buildings where the building's lower zones are exposed to excessive pressure.
- In parallel redundant branches where uninterrupted water supply systems are required
- Adjacent to prestigious residential and office spaces where extraneous noise and maintenance activities are to be avoided

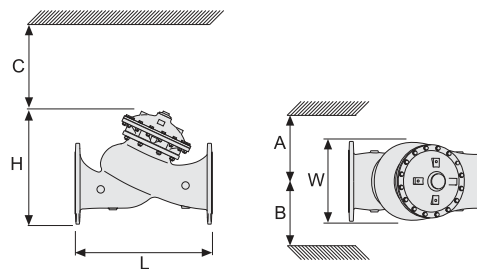


Features and Benefits

- Excellent quality construction materials ensure reliable, resilient and long lasting operation
- Durable, sophisticated and lightweight design ensure minimal cavitation damage and noise even under difficult and highly intensive operation conditions
- Double chamber actuator, fully operational under very low pressure conditions including optional full opening & closing action under zero line pressure; provides smooth, immediate valve response with no hammer effect.
- Near maintenance-free straightforward balanced design including an actuator that can be easily disassembled from the valve body as a separate integral unit for minimal downtime.
- Removable seat assembly offers easy on-site inline maintenance
- Two-way pilot and control loop that continuously sense the downstream pressure and immediately control the valve accordingly – stable, reliable and accurate pressure modulation in wide range of flow-rates and varying pressure.
- Pressure modulation by the hydraulic force of the line pressure – no external power source needed.
- Pilot and control loop constructed from heavy duty environment friendly materials – long lasting and reliable operation.

Technical Data

Table		Kv	A, B (mm)	C (mm)	L (mm)	H (mm)	W (mm)	Weight (kg)
DN	inch							
50	2"	50	350	180	230	250	250	10.8
80	3"	65	370	180	310	260	260	15
100	4"	150	395	230	350	320	320	26
150	6"	360	430	275	480	390	390	55
200	8"	620	475	385	600	507	507	95



End Connections:

Flanged: ISO 7005-2 (ISO 10, 16 & 25)

Pressure Rating: 16, 25 bar (230, 362 psi)

Valve Pattern: Y

Working Temperature: Water up to 80°C (180°F)

Main Construction Materials:

Body, Cover and Actuator: Ductile iron to EN 1563 or ASTM A-536

Internals: Stainless steel, bronze & epoxy coated steel

Control Trim System: Brass control components / accessories

Copper & Brass tubing & fittings

Optional: Stainless Steel 316

Elastomers: Synthetic Rubber

Coating / Colour: Electrostatic Polyester Powder Blue

Optional: Epoxy Fusion-Bonded Blue

How to Order

Please specify the requested valve in the following sequence:

Size	Model	Category	End Connections
<div>2"</div> <div>3"</div> <div>4"</div> <div>6"</div> <div>8"</div>	720ES	BP	<div>ISO-16 16</div> <div>ISO-25 25</div> <div>ABNT16 B6</div> <div>ABNT25 B2</div> <div>ANSI150 A5</div>

For other optional materials consult BERMAD



For full technical specifications, see Engineering section or consult BERMAD

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