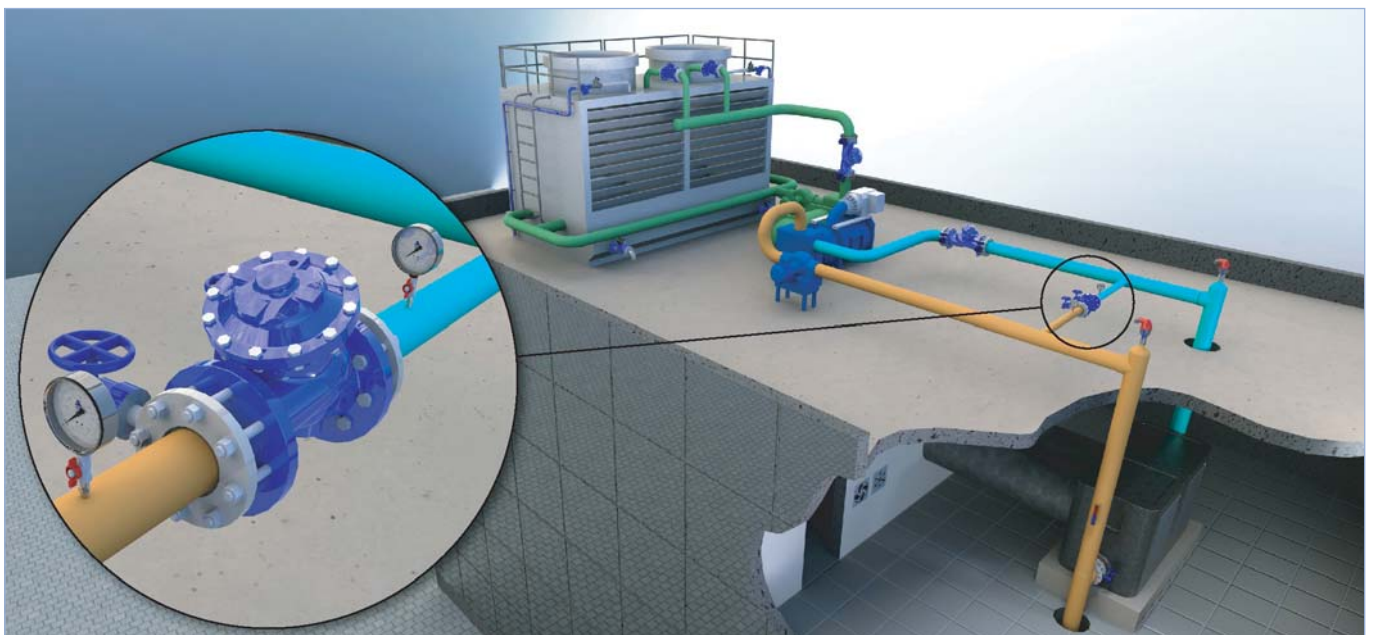




Differential Pressure Sustaining Valve

Hydraulically operated, differential pressure-sustaining control valve that sustains minimum pre-set differential pressure between two local or remote points, regardless of fluctuating flow or varying upstream pressure

BERMAD 700ES series valves are hydraulically operated globe valves in standard oblique (Y) pattern with hydrodynamic body providing an unobstructed flow path, with seat assembly and double chamber unitized actuator that can be disassembled from the body as a separate integral unit. The 700ES valves have an excellent and highly effective modulation capacity for high differential pressure applications, and are designed to operate with minimal cavitation and noise under difficult operation conditions.



For illustration only

Typical Application

- Sustaining pre-set differential pressure between distribution and circulation in close circuit energy systems such as air conditioning and cold/hot water supply networks; preventing excessive pressure and reacting to varying consumer demand
- Sustaining pre-set differential pressure between open circuit hot/cold water supply networks in buildings; balancing and preventing pressure fluctuations between the hot and cold water supplied to consumers
- Sustaining pump differential pressure in circulation or where the supply line pressure regimes vary; preventing pump overload and cavitation damage

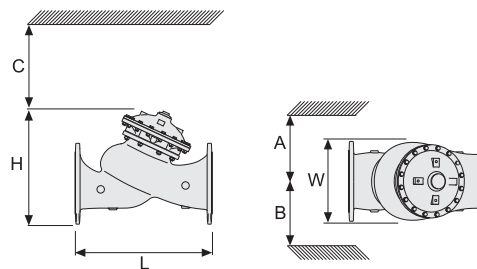


Features and Benefits

- 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
- Hydrodynamic body and high performance actuator provide an unobstructed flow path with minimal pressure loss and outstanding modulation capability under conditions of high differential-pressure operation
- 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
- Upstream and downstream sensing – very accurate modulation according to local readings
- Advanced control loop design – linear, accurate and stable modulation
- Easy on-site set point change – enables calibration of the control loop to various seasonal and other operation regimes
- Optional external isolation preparation for hot/cold water applications – prevents condensation and energy losses

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

For other optional materials consult BERMAD

How to Order

Please specify the requested valve in the following sequence:

Size	Model	Category	End Connections
2" 3" 4" 6" 8"	736ES	BE	ISO-16 16 ISO-25 25 ABNT16 B6 ABNT25 B2 ANSI150 A5



For full technical specifications, see Engineering section or consult BERMAD

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