



## Pressure Reducing System with Electric Backup Valve and Relief Device

WB2E is potable water pressure reducing system that combines electrically operated emergency backup valve, relief device and integral zero flow modulation. The system reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand or varying upstream pressure. It protects the consumers from excessive pressure and ensures continues water supply in emergency situations. The WW-72S-WB2E system consists of BERMAD 700ES valves and combines main pressure reducing valve with a “hot backup” PRV that kicks over to operation by an electrical signal and switches an alarm signal in case of main PRV malfunction.

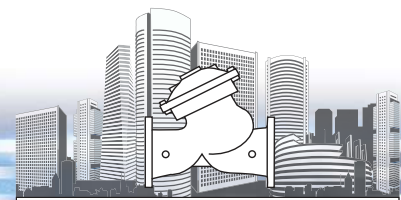
BERMAD water control systems for buildings combine valves and control elements into one compact, factory assembled and calibrated integral structure, designed to perform a specific water control task. These control systems provide builders and engineers with simple water control solutions that are easy to install, inspect and maintain.



For illustration only

### Typical Application

- On floor, compact pressure zone control system for water cabinets in high-rise buildings.
- Technical floor, centralized pressure zones control system.
- Critical water supply systems; can be incorporated into multi branch duty cycled controlled systems for uninterrupted water supply.
- Supply line pressure modulation; protecting the building from fluctuating or excessive city lines pressure.
- In systems where the emergency operation of the backup valve should be triggered by a local or remote electrical signal
- In multi branch systems where electrically controlled duty cycled or prioritized operation of the valves are needed

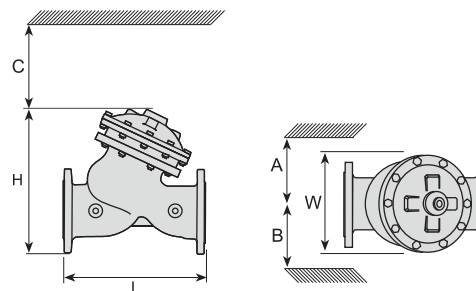


### Features and Benefits

- Compact structure offers small footprint for vertical or horizontal installation in tight confined spaces such as water cabinets and technical floors
- Integral factory assembled unit offers easy and simple installation reducing assembly errors and logistics difficulties
- Two stage redundancy – safe and continuous water supply
- 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.
- Linear adjustment pilot allows easy set up and calibration
- Electrical operation. Low voltage and low current NO and NC solenoids
- 3-way solenoid control, provides full opening of the valve

### Technical Data

Table		Kv	A, B (mm)	C (mm)	L (mm)	H (mm)	W (mm)	Weight (kg)	
DN	inch							Flanged	Grooved
40	1½"	42	350	180	205	239	155	9.1	n/a
50	2"	50	350	180	210	244	165	10.6	6
65	2½"	55	350	180	222	257	178	13	8
80	3"	116	370	230	250	305	200	22	10
100	4"	200	395	275	320	366	223	37	16
150	6"	460	430	385	410	492	320	75	52
200	8"	815	475	460	599	584	390	125	95



### End Connections:

**Flanged:** ISO PN16, PN25 (ANSI Class 150, 300)

**Threaded:** ISO-7-Rp or NPT

**Others:** Available on request

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

**Valve Pattern:** Y & Angle

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

### Main Construction Materials:

**Body, Cover and Actuator:** Ductile Iron

**Internals:** Stainless Steel, Bronze & Coated Steel

Brass control components / accessories

Copper & Brass tubing & fittings

Optional: Stainless Steel 316

**Elastomers:** NBR Nylon fabric-reinforced

**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
1½"	72S-B2E	BP	Flanged ISO-16 16
2"			ISO-25 25
2½"			ABNT16 B6
3"			ABNT25 B2
4"			ANSI150 A5
6"			ANSI300 A3
8"			JIS-16 J6
			Threaded BSP BP
			NPT NP
			Grooved ANSI C606 V1

For other optional materials consult BERMAD



For full technical specifications, see Engineering section or consult BERMAD

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