BERMAD Construction & Buildings

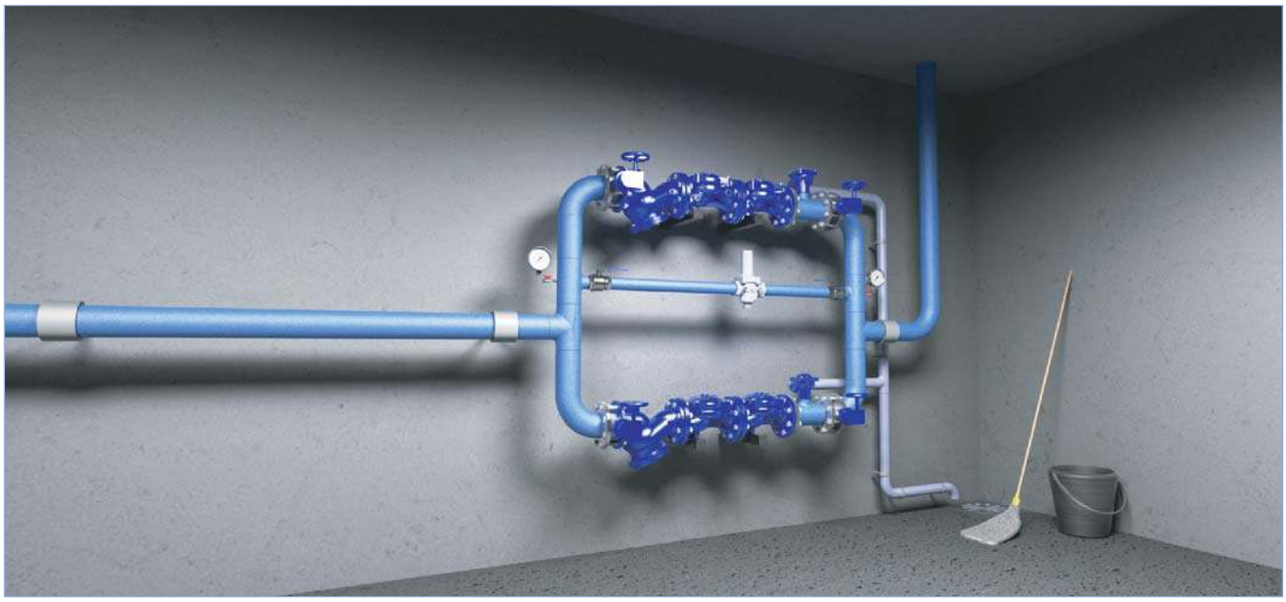
400 Series

Pressure Control

Model WW-420-BP

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 400 series valves are hydraulically operated, simple and reliable, globe valves with full bore hydrodynamic body providing an unobstructed flow path and superior performance. The valves balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valves only moving part.



For illustration only

Typical Application

- Pressure control of potable water supply lines in building operating under moderate conditions
- Excessive pressure protection of low-grade plastic supply lines in buildings
- Protection of main supply lines of high-rise buildings where the building's lower zones are exposed to excessive pressure
- Protection of high pressure zones and emergency systems of high-rise buildings
- In parallel, redundant and duty cycled branches where uninterrupted water supply systems are required

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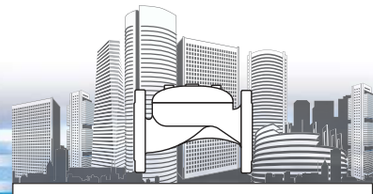

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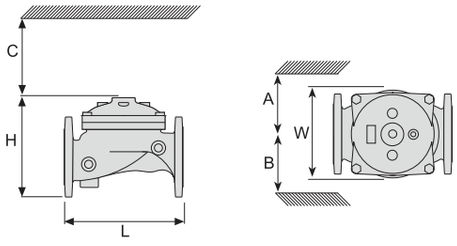
Features and Benefits

- High quality construction materials ensure reliable, long lasting operation
- Full bore valve port area and hydrodynamic body ensure unobstructed flow path; minimal pressure loss with low cavitation damage
- Fully supported and balanced rolling diaphragm – low actuation pressure and excellent low flow regulation performance
- Ensured operation after long standby periods
- Straightforward three major components design – easy and simple on-site inline maintenance with minimal down time
- 2-way pilot and control loop that continuously sense downstream pressure and immediately control the valve accordingly, providing stable, reliable and accurate pressure modulation under a wide range of flow-rate and pressure conditions
- 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 provide long lasting and reliable operation

Technical Data

Size		Kv	A,B	C	L	H	W			Weight (kg)	
DN	Inch						Thr	Fla	Gro	Th/Fl	Gro
50	2"	57	330	68	205	155	119	155	119	9	5
65	2½"	78	340	110	205	178	129	178	n/a	10.5	10.5
80	3"	136	350	125	250	210	170	200	170	19	10.6
100	4"	204	360	145	320	242	n/a	223	204	28	16.2
150	6"	458	400	205	415	345	n/a	306	306	68	49
200	8"	781	430	260	500	430	n/a	365	n/a	125	125



End Connections:

Grooved: ANSI C606
Flanged: ISO 7005-2 (PN10 & 16); ANSI B16.42 (#150)
Threaded: ISO-7-Rp or NPT
Others: Available on request
Pressure Rating: 16 bar (230 psi)
Valve Pattern: Globe & Angle (2"-4")
Working Temperature: Water up to 60°C (140°F)

Main Construction Materials:

Body, Cover and Actuator: Ductile Iron
Internals: Stainless Steel & Elastomer
Control Trim System: Brass control components / accessories
Copper & Brass tubing & fittings
Optional: Stainless Steel 316
Elastomers: Nylon fabric Reinforced NR with rugged insert
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		
	420	BP			
2"			Flanged	ISO-16	16
2½"				ANSI-150	A5
3"				ABNT-16	B6
4"			Threaded	BSP	BP
6"				NPT	NP
8"			Grooved	ANSI C606	V1

For full technical specifications, see Engineering section or consult BERMAD

info@bermad.com • www.bermad.com