700 Series

Pump Applications

Model WW-730-BP

Pressure Relief / Sustaining Valve

Pressure relief/sustaining hydraulically operated control valve that can fulfill either of two separate functions: When installed in-line, it sustains minimum pre-set, upstream (back) pressure regardless of fluctuating flow or varying downstream pressure. When installed as a “branched from the line” circulation valve it relieves excessive line pressure when above maximum pre-set.
BERMAD 700 series valves are hydraulically operated globe valves available in either standard oblique (Y) or angle (A) pattern design. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be disassembled from the body as a separate integral unit.

For illustration only

Typical Application

- Protection from the effects of bursts and extreme pressure in buildings potable water systems
- High pressure safety relief valve in potable water pressure reduction systems
- Pressure sustaining control of buildings reservoir filling systems such as: basement, roof-top, pressure breaking and emergency tanks, where the supply line also feeds additional high priority users
- Pressure sustaining control in buildings pressure zones which contain various prioritized users
- As a safety device for pumping stations temporarily operated out of their regular regime, where stable and constant pressure relief is required

BERMAD Construction & Buildings

700 Series

Pump Applications

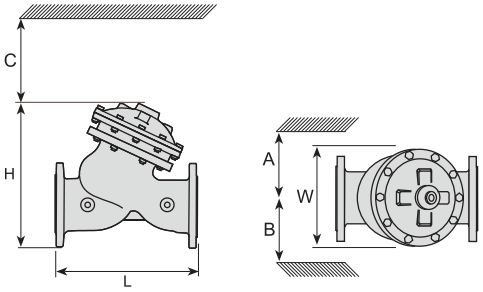
Model WW-730-BP

Features and Benefits

- High quality construction materials ensure reliable, resilient and long lasting operation
- Durable design suitable for highly intensive operation
- Full bore valve port area and hydrodynamic body provide unobstructed flow path, with minimal pressure loss, operation noise and low cavitation damage
- 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.
- 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							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

For other optional materials consult BERMAD

How to Order

Please specify the requested valve in the following sequence:

Size	Model	Category	End Connections		
	730	BP			
1½"			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 full technical specifications, see Engineering section or consult BERMAD

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