



PRESSURE RELIEF / SUSTAINING VALVE

Model 730

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 hydraulic, oblique pattern, globe valves with double chamber unitized actuator, that can be disassembled from the body as a separate integral unit. The valves hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications.



The BERMAD 730 As a pressure sustaining valve that recycles water back to the reservoir at stagnate pump operation, it will remain close when raiser pressure is normal. In an event where the pump works at low flows and high head, the 730 will open to allow sufficient water circulation and pump cooling. Also featured is the 740 Active-

Check Valve that coordinates start / stop functions simultaneously with the pump controller and the 735-55 Surge Anticipating Valve; Will pre-active electrically open to relieve spikes in excess pressure case of power failure and surges.

Typical Application

- Protection from the effects of bursts and extreme pressure in buildings potable water 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
- As a safety device for pumping stations temporarily operated out of their regular regime, where stable and constant pressure relief is required
- High pressure safety relief valve in potable water pressure reduction systems



Features and Benefits

- High Quality Construction Materials - Reliable, resilient and long lasting operation
- Robust Design - Suitable for constant, intense operation
- In-Line Serviceable - Quick and easy maintenance and service
- Line Pressure Driven - Independent operation, no external power needed
- Unitized Actuator Assembly - Minimal downtime
- Hydrodynamic Body with Unobstructed Flow Path - Minimal noise and cavitation damage
- 2-Way Control Loop - Immediate, accurate response to sudden system variations
- Adjustable Pilot - Easy field pressure setting and calibration
- Protected Diaphragm - Minimizes chance of damage caused by debris in the pipeline

Technical Data

General:

End connections:

Grooved / Flanged / Threaded

Pressure Rating: 400 psi; PN25

Valve Pattern: Y (Oblique) / Angle

Working Temperature:

Cold Water up to 140°F; 60°C

Optional Higher Temperatures:

Available on request

Main Valve Materials:

Body, Cover and Partition:

Standard: Ductile Iron

Optional: Stainless Steel 316

Seat: Stainless Steel

Internals:

Stainless Steel, Tin Bronze & Coated Steel, POM

Diaphragm: Fabric-reinforced synthetic rubber

Seals: Synthetic rubber

Coating: Blue Fusion bonded epoxy

Control Trim Materials:

Control Accessories:

Stainless Steel / Bronze & Brass

Tubing: Stainless Steel / Copper

Fittings: Stainless Steel / Brass

* For other optional material consult BERMAD.

** Materials may vary according to sanitary standard.

How To Order

Please Specify the requested valve in the following sequence:

BC - 2" - 730 - 00 - P2 - Y - C **VI** **EB - 000 - NN** **VN**

Segment	Model	End Connection	Standard	Code	Coating	Code	Additional Attributes (Multiple Options Permitted)	Code
BC	730	Up to 250 psi / PN16		VI	Epoxy Blue	EB	V-Port Throttling Plug	V
Size	Series	Grooved	ANSI C606	VB	Epoxy Blue with UV Protection	EV	Valve Position Indicator	I
1½" DN40	Classic	Flanged (Other standards available)	ISO-16	16	Uncoated	UC	Limit Switch	S
2" DN50	Sigma EN	Threaded	ABNT16	B6	Solenoid Voltage		Flow Stem	M
2½" DN65	Sigma ES		ANSI 150	A5	No Solenoid	000	Double Chamber (Active)	B
3" DN80			AST-*	S*	24VAC/50Hz	4A	3-Way Control	X
4" DN100	Potable water Compatibility		BSPT	BP	24VAC/60Hz	46	St.St. 316 All Control Accessories	N
6" DN150	Approved		NPT	NP	24VDC	4D	Pressure Gauge	6
8" DN200	Unregistered	250-400 psi / PN25		V2	220VAC/50-60Hz	2A	Orifice Assembly	U
10" DN250	Code	Grooved	ANSI C606	VD	220VDC	2D	Large Control Filter	F
12" DN300	Orientation	Flanged (Other standards available)	BS 1387	VD	110VAC/50-60Hz	5A	In Line Filter	C
14" DN350	Code	Threaded	ISO-25	25	110VDC	5D	Manual Selector	Z
16" DN400	Y Oblique		ABNT25	B2	12VDC	1D	Tubings & Fittings	
18" DN450	Angle		ANSI 300	A3	Main Valve Position (When Solenoid De-energized)		Copper Tubing & Brass Fittings	CB
20" DN500	Code		BSPT	PH	Normally Closed	C	Stainless Tubing & Fittings	NN
24" DN600	Construction Material		NPT	NH	Normally Open	O		
	Ductile Iron				Last Position	P		
	Stainless Steel 316				Latch Solenoid	S		



NSF 61/372 USA



Bulgarkontrola Bulgaria



ACS France



GOST Russia



PZH Poland



WRAS UK



Watermark Australia



AS 5081 Australia



DVGW Germany

Manufactured and Tested According to AWWA C530-12 Requirements