

PRESSURE REDUCING VALVE

with Off-Peak Flows Bypass

Model BC-720-2B-P

Hydraulically operated, diaphragm actuated pressure reducing control valve that reduces a high upstream pressure to a lower constant downstream pressure, regardless of fluctuating demand or varying upstream pressure.

the model includes an off peak flows by-pass regulated with a Direct Acting Pressure Reducing valve mounted on the valve body.

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.

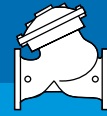


Pressure Reducing Station, featuring BERMAD BC-720-2B-P valves to reduce high incoming pressure to a lower downstream set-point, a redundant, parallel branch to minimize the possibility of total water shut-off. The embedded low flow by-pass saves on installation of

another small flow branch. For information on the other BERMAD products in this system please see the product data sheet for the BERMAD BC-73Q-P and BERMAD BC-70F-P.

Typical Application

- For pressure control of potable water supply lines in buildings operating under tough conditions and intensive use, where maintaining accurate and stable pressure is vital
- In the main supply lines of hi-rise buildings where the building's lower zones are exposed to excessive pressure
- In parallel redundant branches where uninterrupted water supply systems are required
- Adjacent to prestigious residential and office spaces where extraneous noise and maintenance activities are to be avoided
- When a single valve needs to service a wide range of flows



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
- Protected Diaphragm - Minimizes chance of damage caused by debris in the pipeline
- 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.
- Pilot and control loop constructed from heavy duty environment friendly materials - long lasting and reliable operation.
- Integrated by-pass and V-Port Throttling Plug - stability in wide range of flows

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

Note: Outlet pressure range 1-6 bar; 15-90 psi.

* 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:

BERMAD Segment	Size ¹	Model	Series	Approval Group	End Connections & Pressure Rating	
BC	4"	720-2B	EN	P1	16	
Buildings & Constructions	Inch mm	Series	Potable Water²		Up to 250 psi / PN16	
	1½" 40	Classic 00	European Standards	P1	Grooved	ANSI C606 VI
	2" 50	Sigma EN EN	NSF 61/372	P2		BS 1387 VB
	2½" 65	Sigma ES ES	Australia Standards	P3	Flanged	ISO-16 16
	3" 80		Unregistered	P0		ABNT16 B6
	4" 100					ANSI 150 A5
	6" 150					AST-* S*
	8" 200				Threaded	BSP BP
	10" 250					NPT NP
	12" 300					
					250-400 psi / PN25	
				Grooved	ANSI C606 V2	
					BS 1387 VB	
				Flanged	ISO-25 Z5	
					ABNT25 B2	
					ANSI 300 A3	
				Threaded	BSP PH	
					NPT NH	

Ordering code would be

BC-4"-720-2B-EN-P1-16

1. Larger sizes available on request
2. BERMAD complies with a wide range of international potable water standards. Please consult with BERMAD about compliance.



NSF 61/372 USA



Bulgarkontrola Bulgaria



ACS France



GOST Russia



PZH Poland

Manufactured and Tested According to AWWA C530-12 Requirements