

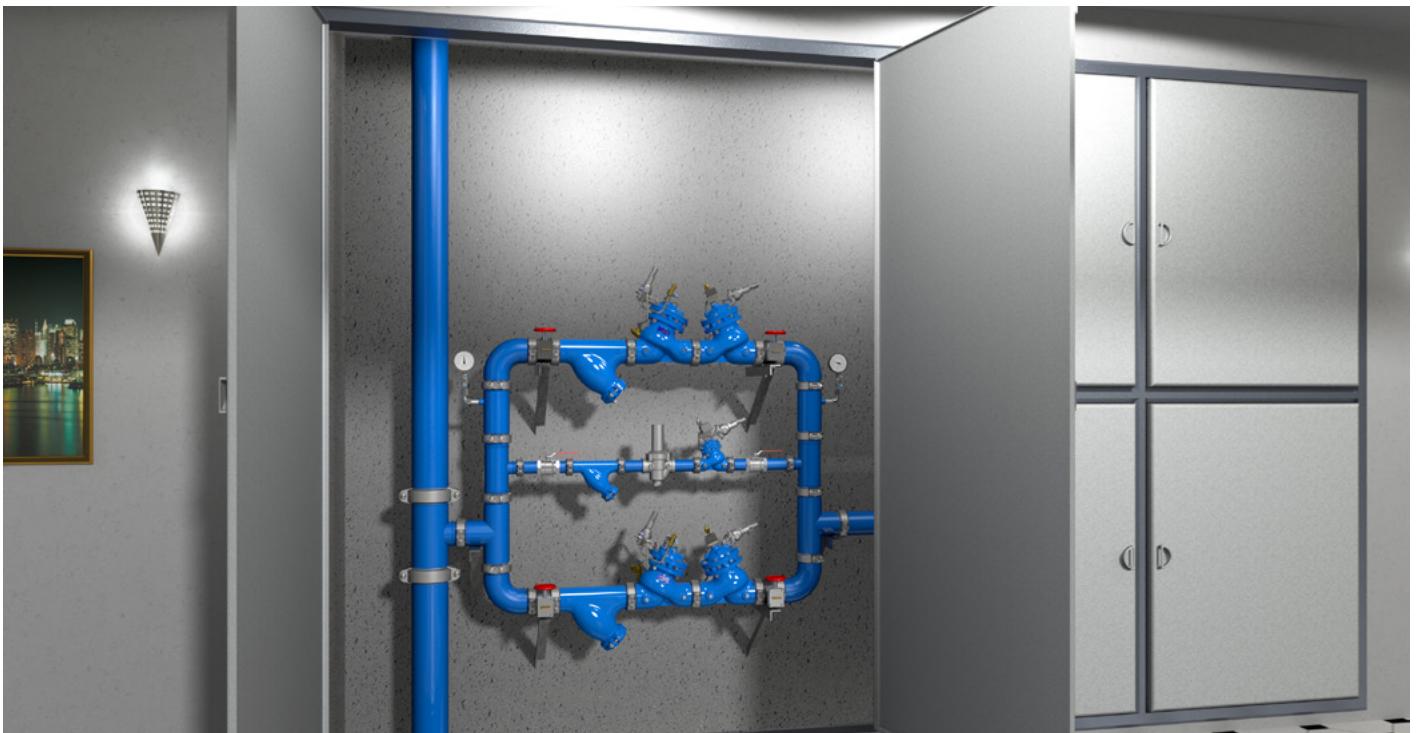


EXCESSIVE PRESSURE SHUT-OFF VALVE

Model BC-794-P

Hydraulically operated, diaphragm actuated shut-off valve that closes drip tight when inlet pressure rises above a pre-set value. It responds immediately, accurately, and with high repeatability to a rise in system pressure by closing fully and triggering an alarm.

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-794-P valves to prevent high pressure from reaching consumers, a redundant, parallel branch to minimize the possibility of total water shut-off and a low

flow bypass branch for low demand operation. For information on the other BERMAD products in this system please see the product data sheet for the BERMAD BC-720-P and BERMAD BC-70F-P.

Typical Application

- Closes to provide protection from pressure rise due to malfunctioning PRV
- Provides safety for systems designed with Pressure Reducing Stations featuring redundant branches
- Where operation of a pressure relief valve must be avoided

Note: When Operating, the BERMAD BC-794-P vents water to atmosphere. It is recommended that drainage be taken into consideration during design and installation.

Note: The BERMAD BC-794-P should be used in systems with redundant branches to prevent total water shut-off. For single line systems, consider the BERMAD BC-72S-H-P or the BERMAD BC-73Q-P



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
- System Failure Indication - Immediate notification to maintenance personnel

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

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:

BERMAD Segment	Size ¹	Model	Series	Approval Group	End Connections & Pressure Rating
BC	4"	794	EN	P1	16
Buildings & Constructions	Inch mm		Series	Potable Water ²	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 1378 VB
	2½" 65		Sigma ES ES	Australia Standards P3	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 1378 VB
				ISO-25 25	
				Flanged ABNT25 B2	
				ANSI 300 A3	
				Threaded BSP PH	
				NPT NH	

Ordering code would be

BC-4"-794-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

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