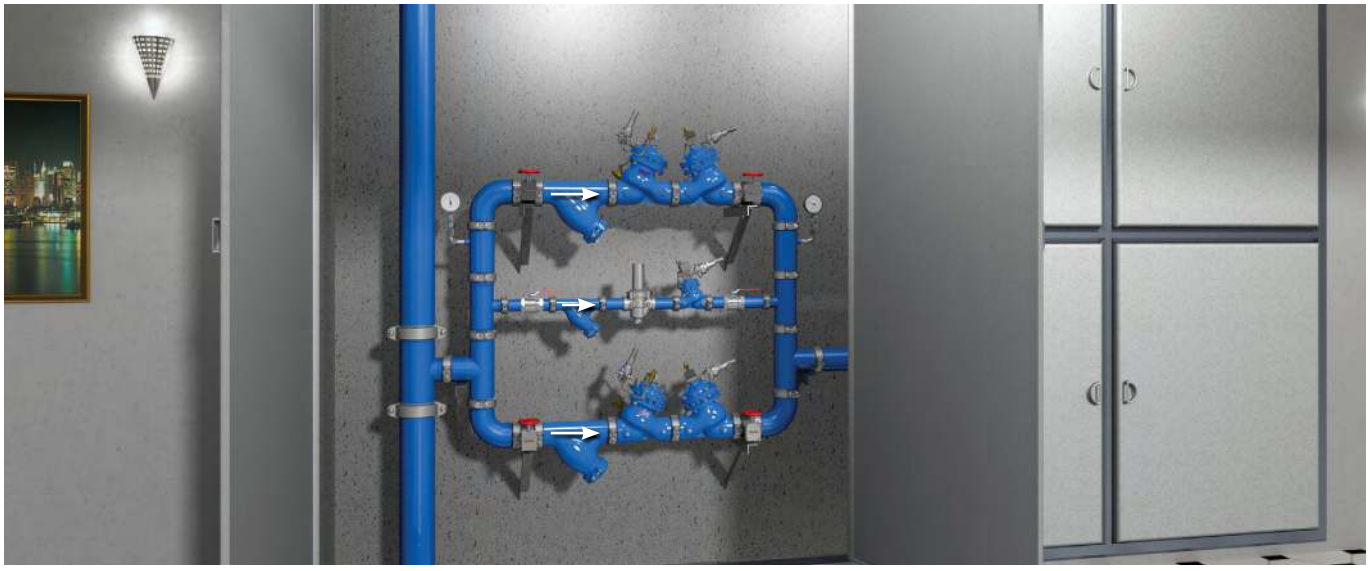
Excessive Pressure Shut-Off Valve

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 globe style control valves available in either standard Y (oblique) or angle pattern configurations. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be removed from the body as a separate integral unit.



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.

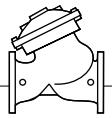
Typical Application

- 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 closed, 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

BERMAD Buildings & Construction



Model BC-794-P

700 Series

Pressure Control

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
- 2-Way Control Loop – Immediate, accurate response to sudden system variations
- Adjustable Pilot – Easy field pressure setting and calibration
- System Failure Indication – Immediate notification to maintenance personnel

Technical Data

End Connections: Grooved, Flanged, Threaded
Pressure Rating: 250, 400 psi; PN16, 25
Valve Pattern: Y (Oblique) and Angle
Working Temperature: Water up to 180°F; 80°C
Main Valve Materials:

Body, Cover and Partition:
Standard: Ductile Iron
Optional: Stainless Steel 316
Internals: Stainless Steel, Bronze and Coated Steel
Control Accessories: Stainless Steel 316
OR Bronze and Brass
Tubing & Fittings: Stainless Steel 316
OR Copper and Brass
OR Reinforced Nylon and Brass
Diaphragm: EPDM, Nylon Fabric-Reinforced
O-Rings: EPDM
Seal: NBR
Coating: Fusion Bonded Epoxy, RAL 5017 (Blue)

How to Order

Please specify the requested valve in the following sequence:

Size	Model	Scope & compatibility	End Connections & Pressure Rating
BC		794		

Building and Construction

Size
1½"
2"
2½"
3"
4"
6"
8"
10"
12"
Larger sizes available on request

Scope & compatibility	
Potable Water	
WRAS, DVGW, ACS, GOST, BELGAQUA, PZH, BULGARCONTROLA, SVGW	P1
NSF 61/372	P2
AS 5081, WATER MARK	P3
Unregistered	P0
Fire Protection	
UL & FM	UF
UL	UL
FM	FM
Unregistered	F0
HVAC	
Unregistered	E0
Treated Water	
Unregistered	T0

End Connections & Pressure Rating		
Up to 250 psi / PN16		
Grooved	ANSI C606	VI
Flanged	ISO-16	16
	ABNT16	B6
	ANSI150	A5
	JIS-16	J6
Threaded	BSP	BP
	NPT	NP
250-400 psi / PN25		
Grooved	ANSI C606	V2
Flanged	ISO-25	25
	ABNT25	B2
	ANSI300	A3
Threaded	BSP	PH
	NPT	NH

For other optional materials consult BERMAD

For Dimensions & Weights, IOM and more other detailed engineering data, visit the Series Engineering Documentation or the Downloads Center on the BERMAD website

Drinking Water Standards, Approvals & Certification:

NSF 61/372 USA | WRAS UK | DVGW Germany | ACS France | GOST Russia | BELGAQUA Belgium | AS 5081 Australia | Watermark Australia | PZH Poland | Bulgarcontrola Bulgaria | SVGW Switzerland | ISO 9001 - 2008

info@bermad.com • www.bermad.com

October 2016