

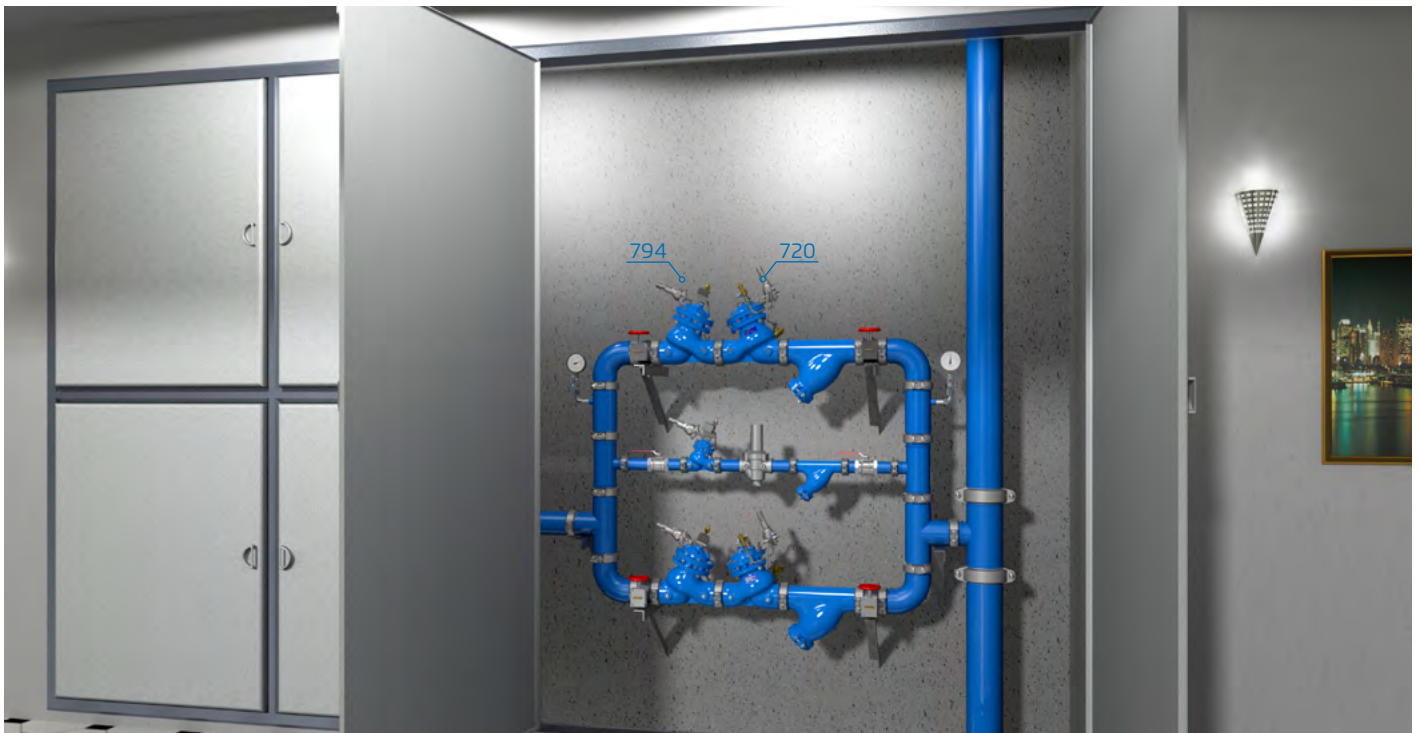


## EXCESSIVE PRESSURE SHUT-OFF VALVE

### Model 794

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 794 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 720 and BERMAD 70F.

### 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 794 vents water to atmosphere. It is recommended that drainage be taken into consideration during design and installation.

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



## 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, 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" - 794 - 00 - P2 - Y - C - VI - EB - 000 - NN - SON

Segment	Model	End Connection	Standard	Code	Coating	Code	Additional Attributes (Multiple Options Permitted)	Code
BC	794	Up to 250 psi / PN16	ANSI C606	VI	Epoxy Blue	EB	V-Port Throttling Plug	V
Size	Series	Grooved	BS 1387	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 Over the Seat	O
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				220VAC/50-60Hz	2A	Orifice Assembly	U
10" DN250					220VDC	2D	Large Control Filter	F
12" DN300	Orientation				110VAC/50-60Hz	5A	In Line Filter	C
14" DN350	Y Oblique				110VDC	5D	Manual Selector	Z
16" DN400	Angle				12VDC	1D		
18" DN450					Main Valve Position (When Solenoid De-energized)		Tubings & Fittings	
20" DN500					Normally Closed	C	Copper Tubing & Brass Fittings	CB
24" DN600	Construction Material				Normally Open	O	Stainless Tubing & Fittings	NN
	Ductile Iron				Last Position	P		
	Stainless Steel 316				Latch Solenoid	S		



NSF 61/372 USA



Bulgarkontrola Bulgaria



ACS France



GOST Russia



PZH Poland

Manufactured and Tested According to AWWA C530-12 Requirements

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