



## AUTOMATIC BREACH CONTAINMENT VALVE

### Model BC-791-F0

A safeguard sentinel the BC-791-F0 will remain fully open from no flow to full fire zone demand, excessive flow caused by pipe breach will trigger fully hydraulic operation for the valve to close and to send an alarm signal. With the breach contained by the BC-791-F0 vital fire water sources discharge is prevented.

BERMAD 700 series valves are hydraulically operated globe valves in either standard oblique (Y) or angle (A) pattern design with full bore hydrodynamic body for unobstructed flow path, seat assembly and double-chamber unitized actuator that can be disassembled from the body as an integral unit.



BERMAD BC-791-F0 featured as floor breach containment valve - it will remain fully open under no flow conditions or when supply of fire water to downstream wet pipe system is needed, should downstream pipe line fail, the excessive flow will automatically close the BC-791-F0

to isolate the floor breach from the rest of the water supply system and an electric signal will be transmitted.

Routine inspections and functioning tests can be preformed on the BC-791-F0 at no flow condition thanks to its double chamber configuration.

### Typical Application

- Off riser installations for containment of breaches per floor or per pressure zone
- On riser installations to protect against gravity tanks depletion



## 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 pressure loss
- Protected Diaphragm – Minimizes chance of damage caused by debris in the pipeline
- Double Chamber Design - Decisive operation without delay
- 2-Way Control Loop – Accurate response to system conditions
- Factory Calibrated - Easy commissioning
- Lockable Pilot - with Anti temper indication
- Adjustable Pilot - Can be adjusted to a range of breach flows
- Breach Indication – Immediate notification to control room

## 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 140°F; 60°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 / Bronze and Brass

### Tubing & Fittings:

Stainless Steel 316

### Elastomers:

Polyamide fabric reinforced Polyisoprene, NR

**Coating:** Red Powder Coating Polyester

\* For other optional material consult BERMAD

## How to Order

Please specify the requested valve in the following sequence:

	Size	Model	Approval Group	End Connections & Pressure Rating		
BC		791				
Buildings And Construction	1½" 2" 2½" 3" 4" 6" 8" 10" 12" Larger sizes available on request	Approvals*		Up to 250 PSI / PN16		
		UL & FM	UF	Grooved	ANSI C606 BS 1378	VI VB
		UL	UL	Flanged	ISO-16	16
		FM	FM		ABNT16	B6
		Unregistered	FO	ANSI150	A5	
		* According to available approvals per model		JIS-16	J6	
				Threaded	BSP NPT	BP NP
				250-400 PSI / PN25		
				Grooved	ANSI C606 BS 1378	V2 VD
				Flanged	ISO-25	25
					ABNT25	B2
				ANSI300	A3	
		Threaded	BSP NPT	PH NH		

## Design Flows:

Valve Size		Maximum Allowed supply Flow		Breach Flow	
Inches	DN	GPM	m3/h	GPM	m3/h
2	50	237	54	332	75
2.5	65	400	91	561	127
3	80	607	138	849	193
4	100	948	215	1327	302
6	150	2132	485	2985	678
8	200	3791	862	5307	1206

Consult factory for other flow settings and for larger valve sizes