BERMAD Buildings & Construction

General Fire Protection Applications



700 Series Model BC-791-F0

AUTOMATIC BREACH CONTAINMENT VALVE

Model BC-791-F0

A safeguard sentinel the BC-791-FO 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-FO 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

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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:

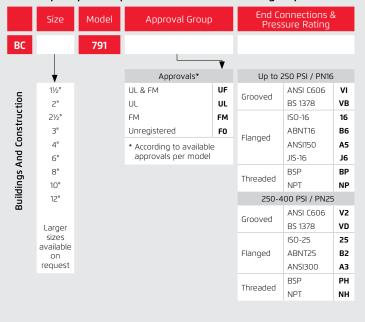
Polyamide fabric reinforced Polyisoprene, NR

Coating: Red Powder Coating Polyester

* For other optional material consult BERMAD

How to Order

Please specify the requested valve in the following sequence:



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