



700 Series

Pressure & Pump

Model FP-70N-BF

## Check Valve for Fire Protection Systems

Non-slam, lift type, non-return Check Valve that opens to allow flow in the required direction, and closes fast and drip tight to prevent any back flow.

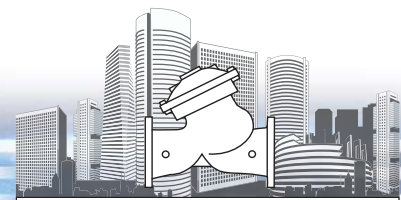
Based on BERMAD 700 globe valves series in either standard oblique (Y) or angle (A) pattern design with full bore hydrodynamic body for unobstructed flow path. The valve's seat and check assemblies can be disassembled from the body as integral units without removing the valve from the line.



For illustration only

### Typical Application

- Downstream of each high pressure pump in fire protection systems where reverse flow prevention is required (Jokey and main hydrant pumps)
- Downstream of out of the building hydrants charge points
- In fire protection pumping stations operating fix speed or variable speed pumps
- In buildings fire protection pipelines requiring one-way zone isolation
- In installations where flow indicators are required at the check valves, e.g. pumps no-flow protection or branch operation indicators



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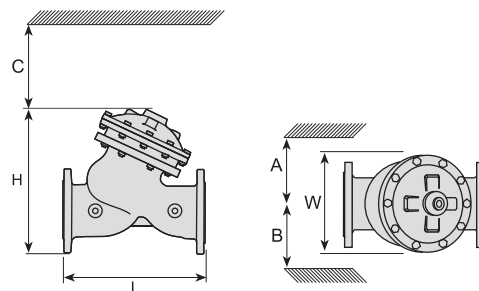
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## Features and Benefits

- High quality construction materials ensure reliable, resilient and long lasting operation
- Durable design suitable for highly intensive operation
- Full bore valve port area and hydrodynamic body provide unobstructed flow path, with minimal pressure loss, operation noise and low cavitation damage
- Near maintenance-free straightforward balanced design including check and seat assemblies that can be easily disassembled from the valve body as separate integral units for minimal downtime
- Optional additional accessories available, including limit switches, position indicators, V/U ports, and more
- Convertible platform for vast number of applications
- Optional flow indication switch or opening position sensor for transmitting real time valve status to electrical control systems
- Spring loaded mechanism for fast closing – eliminates reverse flow, slam and water hammer, suitable for both vertical and horizontal installation

## Technical Data

Table		Kv	A, B (mm)	C (mm)	L (mm)	H (mm)	W (mm)	Weight (kg)	
DN	inch							Flanged	Grooved
40	1½"	42	350	180	205	239	155	9.1	n/a
50	2"	50	350	180	210	244	165	10.6	6
65	2½"	55	350	180	222	257	178	13	8
80	3"	116	370	230	250	305	200	22	10
100	4"	200	395	275	320	366	223	37	16
150	6"	460	430	385	410	492	320	75	52
200	8"	815	475	460	599	584	390	125	95



## End Connections:

**Flanged:** ISO PN16, PN25 (ANSI Class 150, 300)

**Threaded:** ISO-7-Rp or NPT

**Others:** Available on request

**Pressure Rating:** 16,25 bar (230, 362 psi)

**Valve Pattern:** Y & Angle

**Water Temperature:** Water up to 80°C (180°F)

## Main Construction Materials:

**Body, cover & Actuator:** Ductile Iron

**Internals:** Stainless Steel, Bronze & coated Steel

**Control Trim:** System Brass control components / accessories

Copper & Brass tubing & fittings

Optional: Stainless Steel 316

**Elastomers:** NBR Nylon fabric-reinforced

**Coating / colour:** Electrostatic Powder Coating Polyester Red

Optional: High Build Epoxy Fusion-Bonded with UV Protection

For other optional materials consult BERMAD

## How to Order

Please specify the requested valve in the following sequence:

Size	Model	Category	End Connections
1½"	70N	BF	Flanged ISO-16 16
2"			ISO-25 25
2½"			ABNT16 B6
3"			ABNT25 B2
4"			ANSI150 A5
6"			ANSI300 A3
8"			JIS-16 J6
		Threaded	BSP BP
			NPT NP
		Grooved	ANSI C606 V1



For full technical specifications, see Engineering section or consult BERMAD

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