



# Hydraulic Non-Slam Check Valve with Opening & Closing Speed Control

Hydraulically operated, diaphragm actuated, double chambered Non-Slam Check Valve. During system flow, when upstream pressure exceeds downstream pressure, the valve is fully open. When pressure conditions reverse, the valve shuts off drip tight preventing back flow. Both the valve's opening and closing speeds are controllable and on-site adjustable.

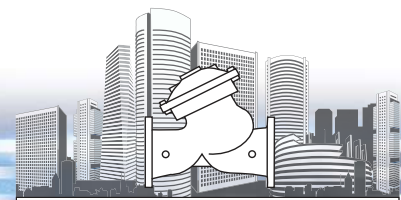
BERMAD 700 series valves are hydraulically operated globe valves available in either standard oblique (Y) or angle (A) pattern design. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be disassembled from the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



For illustration only

## Typical Application

- Downstream of each high pressure pump where reverse flow prevention is required
- In pumping stations where smooth start/stop operation is required
- In pumping stations with duty cycle operation regime
- In pumping stations operating fix speed pumps
- In installations where flow indicators are required at the check valves, e.g. pumps no-flow protection or branch operation indicators

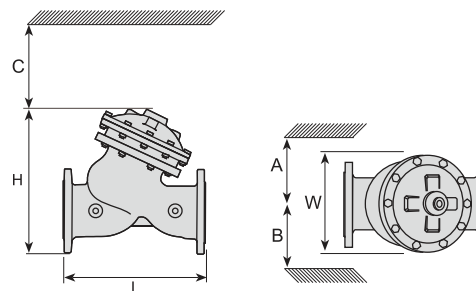


### Features and Benefits

- 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
- Double chamber actuator, fully operational under very low pressure conditions including optional full opening & closing action under zero line pressure; provides smooth, immediate valve response with no hammer effect.
- Near maintenance-free straightforward balanced design including an actuator that can be easily disassembled from the valve body as a separate integral unit for minimal downtime.
- Opening and closing speed control
- The operation of the valve is gradual and smooth with no pipeline vibrations
- Reduces potential surge damage
- Prolongs the system's life span

### 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

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

### Main Construction Materials:

**Body, Cover and Actuator:** Ductile Iron

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

Brass control components / accessories

Copper & Brass tubing & fittings

Optional: Stainless Steel 316

**Elastomers:** NBR Nylon fabric-reinforced

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

Optional: Epoxy Fusion-Bonded Blue

For other optional materials consult BERMAD

### How to Order

Please specify the requested valve in the following sequence:

Size	Model	Category	End Connections
1½"	760	BP	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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