



## CHECK VALVE

### Lift Type

#### Model BC-70N-P

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.



Lift Pump Station with BERMAD Check Valve preventing reverse flow into the reservoir. The station also features a BC-730-P Pressure Relief Valve that maintains minimal flow if churn operation occurs, and BC-

735-55-P Solenoid Operated Surge Anticipating Valve to reduce water hammer in an abrupt pump stop.

### Typical Application

- Downstream of each high pressure pump where reverse flow prevention is required
- In pumping stations operating fix speed or variable speed pumps
- In water systems 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
- In non regular installation sites with vertical or horizontal lines providing upward or downward flows

\* For 600 psi / 40 bar application see the BC-80N-P



## 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

**End Connections:** Grooved, Flanged, Threaded

**Pressure Rating:** 250, 400 psi; PN16, 25

**Pattern:** Y (Oblique) and Angle

**Working Temperature:** Water up to 140°F; 60°C

## Main Construction Materials:

**Body and Cover:**

Standard: Ductile Iron

Optional: Stainless Steel 316

**Internals:** Stainless Steel, POM

**Elastomers:** EPDM, NBR

**Coating:** Blue Fusion bonded epoxy

## How to Order

Please Specify the requested valve in the following sequence:

	Size	Model	Approval Group	End Connections & Pressure Rating		
BC		70N				
Buildings And Construction	1½"	70N	P1	Potable Water		
	2"			Grooved	ANSI C606	VI
	2½"				BS 1378	VB
	3"			Flanged	ISO-16	16
	4"				ABNT16	B6
	6"				ANSI150	A5
	8"			Threaded	JIS-16	J6
	10"				BSP	BP
	12"			NPT	NP	
						250-400 PSI / PN25
			Grooved	ANSI C606	V2	
			BS 1378	VD		
			Flanged	ISO-25	25	
			ABNT25	B2		
			ANSI300	A3		
			Threaded	BSP	PH	
			NPT	NH		

## Dimensions and Weights

	DN Inch	Flanged						Grooved							
		40 1½	50 2	65 2½	80 3	100 4	150 6	200 8	40 1½	50 2	65 2½	80 3	100 4	150 6	200 8
L	mm	205	210	222	250	320	415	500	205	210	215	250	320	415	500
	Inch	8.06	8.25	8.72	9.83	12.58	16.31	19.65	8.06	8.25	8.45	9.83	12.58	16.31	19.65
W	mm	155	165	178	200	223	320	390	122	122	122	153	200	285	355
	Inch	6.09	6.48	7.00	7.86	8.76	12.58	15.33	4.79	4.79	4.79	6.01	7.86	11.20	13.95
h	mm	78	83	95	100	112	140	172	33	33	40	60	74	95	125
	Inch	3.05	3.24	3.73	3.93	4.38	5.50	6.76	1.30	1.30	1.55	2.36	2.91	3.73	4.91
H	mm	204	209	222	280	332	415	492	160	160	167	240	295	370	445
	Inch	8.03	8.21	8.72	11.00	13.07	16.32	19.33	6.28	6.27	6.54	9.43	11.59	14.55	17.48
Weight	Kg	9	11	13	22	37	75	125	5	6	8	10	16	52	95
	lbs	20	23	29	49	82	165	276	11	13	18	22	35	115	209
Kv	M³/hr	42	50	55	115	200	460	815	42	50	55	115	200	460	815
Cv	gpm	49	58	64	133	231	531	941	49	58	64	133	231	531	941

C= Half of H

