BERMAD Buildings & Construction

Potable Water • Pump Applications



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-

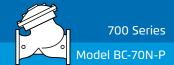
735-55-P Solenoid Operated Surge Anticipating Valve to reduce water hammer in an abrupt pump stop.

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

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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

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

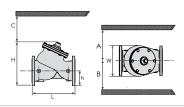
How to Order

Please Specify the requested valve in the following sequence:

| | Size | Model | Approval Group | | End Connections & Pressure Rating | | | | |
|----------------------------|-----------|-------|----------------|----------|--------------------------------------|-----------|----|--|--|
| ВС | | 70N | | | | | | | |
| | | | | V | | | | | |
| | ▼ | | Potable Water | | Up to 250 PSI / PN16 | | | | |
| Buildings And Construction | 11/2" | | WRAS | | Grooved | ANSI C606 | VI | | |
| | 2" | | DVGW | | | BS 1378 | VB | | |
| | 21/2" | | ACS | P1 | Flanged | ISO-16 | 16 | | |
| | 3" | | GOST | | | ABNT16 | В6 | | |
| | 4" | | BELGAQUA | | | ANSI150 | A5 | | |
| | 6" | | PZH | | | JIS-16 | J6 | | |
| | 8" | | BULGARCONTROLA | | Threaded | BSP | BP | | |
| | 10" | | SVGW | | | NPT | NP | | |
| 븕 | 12" | | NSF 61/372 | P2 | 250-4 | , | | | |
| ā | | | AS 5081 | | C | ANSI C606 | V2 | | |
| | Larger | | WATER MARK | Р3 | Grooved | BS 1378 | VD | | |
| | sizes | | Unregistered | PO | | ISO-25 | 25 | | |
| | available | | | | Flanged | ABNT25 | B2 | | |
| | request | | | | | ANSI300 | АЗ | | |
| | | | | | | BSP | PH | | |
| | | | Threaded | NPT | NH | | | | |

Dimentions and Weights

| Flanged | | | | | | | | Grooved | | | | | | | |
|--------------|-------|------|------|------|-------|-------|-------|---------|------|------|------|------|-------|-------|-------|
| | DN | 40 | 50 | 65 | 80 | 100 | 150 | 200 | 40 | 50 | 65 | 80 | 100 | 150 | 200 |
| | Inch | 1½ | 2 | 2½ | 3 | 4 | 6 | 8 | 11/2 | 2 | 2½ | 3 | 4 | 6 | 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 |
| Н | 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 |
| Κv | 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 | | | | | | | | | | | | | | | |



























NSF 61/372 USA

WRAS UK

Germany

ACS France GOST Russia BELGAQUA Belgium AS 5081

Waterma Australi Pol Pol

PZH Poland Bulgarcontrol Bulgaria SVGW Switzerland

ISO 9001 - 2008