



## BOOSTER PUMP CONTROL VALVE

### Active Check Valve

#### Model BC-740-P

Hydraulically operated, diaphragm actuated active check valve that opens fully or shuts off in response to electric signals. It isolates the pump from the system during pump starting and stopping, to prevent pipeline surges.

BERMAD 700 series valves are hydraulic, oblique pattern, globe valves with double chamber unitized actuator, that can be disassembled from the body as a separate integral unit. The valves hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications.



Pump Station, featuring the BERMAD BC-740-P valves to slowly introduce pump pressure to the system or slowly remove pump pressure from the system in response to a signal from the pump controller. In power failure situations, the BERMAD BC-740-P valves

will check closed to prevent flow back through the pumps. For information on the other BERMAD products in this system please see the product data sheet for BC-730-P and BC-735-55-P.

### Typical Application

- Provides surge free starting and stopping of supplementary pumps
- Delays reaction of variable speed primary pump when single speed supplementary pump comes on line or goes off line.

# BERMAD Buildings & Construction

Potable Water • Pump Applications



700 Series

Model BC-740-P

## 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 noise and cavitation damage
- Protected Diaphragm - Minimizes chance of damage caused by debris in the pipeline

Recommended maximum flow velocity: 6.0 m/sec; 20 ft/sec.

## Technical Data

### General:

#### End connections:

Grooved / Flanged / Threaded

**Pressure Rating:** 400 psi; PN25

**Valve Pattern:** Y (Oblique) / Angle

#### Working Temperature:

Cold Water up to 140°F; 60°C

**Optional Higher Temperatures:**

Available on request

### Main Valve Materials:

#### Body, Cover and Partition:

**Standard:** Ductile Iron

**Optional:** Stainless Steel 316

**Seat:** Stainless Steel

#### Internals:

Stainless Steel, Tin Bronze & Coated Steel, POM

**Diaphragm:** Fabric-reinforced synthetic rubber

**Seals:** Synthetic rubber

**Coating:** Blue Fusion bonded epoxy

### Control Trim Materials:

#### Control Accessories:

Stainless Steel / Bronze & Brass

**Tubing:** Stainless Steel / Copper

**Fittings:** Stainless Steel / Brass

#### Solenoid:

**Body:** Stainless Steel / Brass

**Elastomers:** Synthetic Rubber

**Enclosure:** Molded Epoxy

\* For other optional material consult BERMAD.

\*\* Materials may vary according to sanitary standard.

## How to Order

Please Specify the requested valve in the following sequence:

BERMAD Segment	Size <sup>1</sup>	Model	Series	Approval Group	End Connections & Pressure Rating	Solenoid	Ordering code would be	
BC	4"	740	EN	P1	16	4AC	<b>BC-4"-740-EN-P1-16-4AC</b>	
Buildings & Constructions	<b>Inch mm</b>		<b>Series</b>	<b>Potable Water<sup>2</sup></b>	<b>Up to 250 psi / PN16</b>	<b>Solenoid Configuration</b>		
	1½" 40		Classic <b>00</b>	European Standards <b>P1</b>	Grooved	ANSI C606 <b>VI</b>	Normally Closed <sup>3</sup>	
	2" 50		Sigma EN <b>EN</b>	NSF 61/372 <b>P2</b>		BS 1387 <b>VB</b>	AC 50Hz <b>4AC</b>	
	2½" 65		Sigma ES <b>ES</b>	Australia Standards <b>P3</b>		ISO-16 <b>16</b>	AC 60Hz <b>46C</b>	
	3" 80			Unregistered <b>P0</b>		ABNT16 <b>B6</b>	DC <b>4DC</b>	
	4" 100				Flanged	ANSI 150 <b>A5</b>	24V <sup>4</sup>	
	6" 150					AST-* <b>S*</b>		Normally Open <sup>3</sup>
	8" 200					Threaded	BSP <b>BP</b>	AC 50Hz <b>4A0</b>
	10" 250						NPT <b>NP</b>	AC 60Hz <b>460</b>
	12" 300							DC <b>4D0</b>
					<b>250-400 psi / PN25</b>			
					Grooved	ANSI C606 <b>V2</b>		
						BS 1387 <b>VB</b>		
						ISO-25 <b>25</b>		
					Flanged	ABNT25 <b>B2</b>		
						ANSI 300 <b>A3</b>		
					Threaded	BSP <b>PH</b>		
						NPT <b>NH</b>		

1. Larger sizes available on request

2. BERMAD complies with a wide range of international potable water standards. Please consult with BERMAD about compliance.

3. Valve Position when Solenoid is De-Energized

4. Other voltage available.



NSF 61/372 USA



Bulgarkontrola Bulgaria



ACS France



GOST Russia



PZH Poland



WRAS UK



Watermark Australia



AS 5081 Australia

Manufactured and Tested According to AWWA C530-12 Requirements

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