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 globe style control valves available in either standard Y (oblique) or angle pattern configurations. They have a full bore hydrodynamic body providing an unobstructed flow path, with a seat assembly and double chamber unitized actuator that can be removed from the body as a separate integral unit.

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 BERMAD 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.

All images in this catalog are for illustration only

BERMAD Buildings & Construction

700 Series

Potable Water • Pump Applications

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

Technical Data

End Connections: Grooved, Flanged, Threaded
Pressure Rating: 250, 400 psi, PN16, 25
Valve Pattern: Y (Oblique) and Angle
Working Temperature: Water up to 140°F; 60°C

Main Valve Materials:

Body, Cover and Partition:
Standard: Ductile Iron
Optional: Stainless Steel 316
Internals: Stainless Steel, Bronze and Coated Steel
Control Accessories: Stainless Steel 316 / Bronze and Brass
Tubing & Fittings: Stainless Steel 316 / Copper and Brass / Reinforced Nylon and Brass
Diaphragm: EPDM, Nylon Fabric-Reinforced
O-Rings: EPDM
Seal: NBR
Coating: Blue Fusion bonded epoxy

For Other optional material consult BERMAD

How to Order

Please Specify the requested valve in the following sequence:

	Size	Model	Approval Group	End Connections & Pressure Rating	Solenoid
BC		740			

Buildings And Construction

Size
1½"
2"
2½"
3"
4"
6"
8"
10"
12"
Larger sizes available on request

Potable Water	
WRAS DVGW ACS GOST BELGAQUA PZH BULGARCONTROLA SVGW	P1
NSF 61/372	P2
AS 5081 WATER MARK	P3
Unregistered	P0

Up to 250 PSI / PN16		
Grooved	ANSI C606	VI
	BS 1378	VB
Flanged	ISO-16	16
	ABNT16	B6
	ANSI150	A5
	JIS-16	J6
Threaded	BSP	BP
	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

Solenoid Configuration			
24V	Normally Closed*	AC 50Hz	4AC
		AC 60HZ	46C
		DC	4DC
	Normally Open*	AC 50Hz	4AO
		AC 60HZ	46O
		DC	4DO

*Valve Position when Solenoid is De-Energized
**Other voltage avaliable

Additional Configurations & Options

NSF 61/372 USA | WRAS UK | DVGW Germany | ACS France | GOST Russia | BELGAQUA Belgium | AS 5081 Australia | Watermark Australia | PZH Poland | Bulgarcontrola Bulgaria | SVGW Switzerland | ISO 9001 - 2008