BOOSTER PUMP CONTROL VALVE

Active Check Valve

Model 740

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.

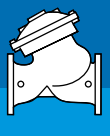
Pump Station, featuring the BERMAD 740 valves to slowly introduce pump pressure to the system or slowly remove pump pressure from the system in response to a signal from the pump controller. In power failure situations, the BERMAD 740 valves will check closed to prevent flow back through the pumps. For information on the other BERMAD products in this system please see the product data sheet for 730 and 735-55.

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 740

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 140ºF; 60ºC
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

Additional Configurations & Options >

Please Specify the requested valve in the following sequence:

BC - 2" - 740 - 00 - P2 - Y - C - VI - EB - 4AC - NN - SN

Segment

BC

Size

1½"	DN40
2"	**DN50**
2½"	DN65
3"	DN80
4"	DN100
6"	DN150
8"	DN200
10"	DN250
12"	DN300
14"	DN350
16"	DN400
18"	DN450
20"	DN500
24"	DN600

Model

740

Series

	Code
Classic	**00**
Sigma EN	EN
Sigma ES	ES

Potable water Compatibility

	Code
Approved	**P2**
Unregistered	P0

Orientation

	Code
Y Oblique	**Y**
Angle	A

Construction Material

	Code
Ductile Iron	**C**
Stainless Steel 316	N

End Connection

Standard	Code
Up to 250 psi / PN16	
Grooved — **ANSI C606**	**VI**
Grooved — BS 1387	VB
Flanged (Other standards available) — ISO-16	16
Flanged (Other standards available) — ABNT16	B6
Flanged (Other standards available) — ANSI 150	A5
Flanged (Other standards available) — AST-*	S*
Threaded — BSPT	BP
Threaded — NPT	NP
250-400 psi / PN25	
Grooved — ANSI C606	V2
Grooved — BS 1387	VD
Flanged (Other standards available) — ISO-25	25
Flanged (Other standards available) — ABNT25	B2
Flanged (Other standards available) — ANSI 300	A3
Threaded — BSPT	PH
Threaded — NPT	NH

Coating

	Code
Epoxy Blue	**EB**
Epoxy Blue with UV Protection	EV
Uncoated	UC

Solenoid Voltage

	Code
No Solenoid	000
24VAC/50Hz	**4A**
24VAC/60Hz	46
24VDC	4D
220VAC/50-60Hz	2A
220VDC	2D
110VAC/50-60Hz	5A
110VDC	5D
12VDC	1D

Main Valve Position (When Solenoid De-energized)

	Code
Normally Closed	**C**
Normally Open	O
Last Position	P
Latch Solenoid	S

Additional Attributes (Multiple Options Permitted)

	Code
V-Port Throttling Plug	V
Valve Position Indicato	I
Limit Switch	**S**
Flow Stem	M
Double Chamber (Active)	B
3-Way Control	X
St.St. 316 All Control Accessories	**N**
Pressure Gauge	6
Balancing Piston Assy.	G
Large Control Filter	F
In Line Filter	C
Manual Selector	Z

Tubings & Fittings

	Code
Copper Tubing & Brass Fittings	CB
Stainless Tubing & Fittings	**NN**

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