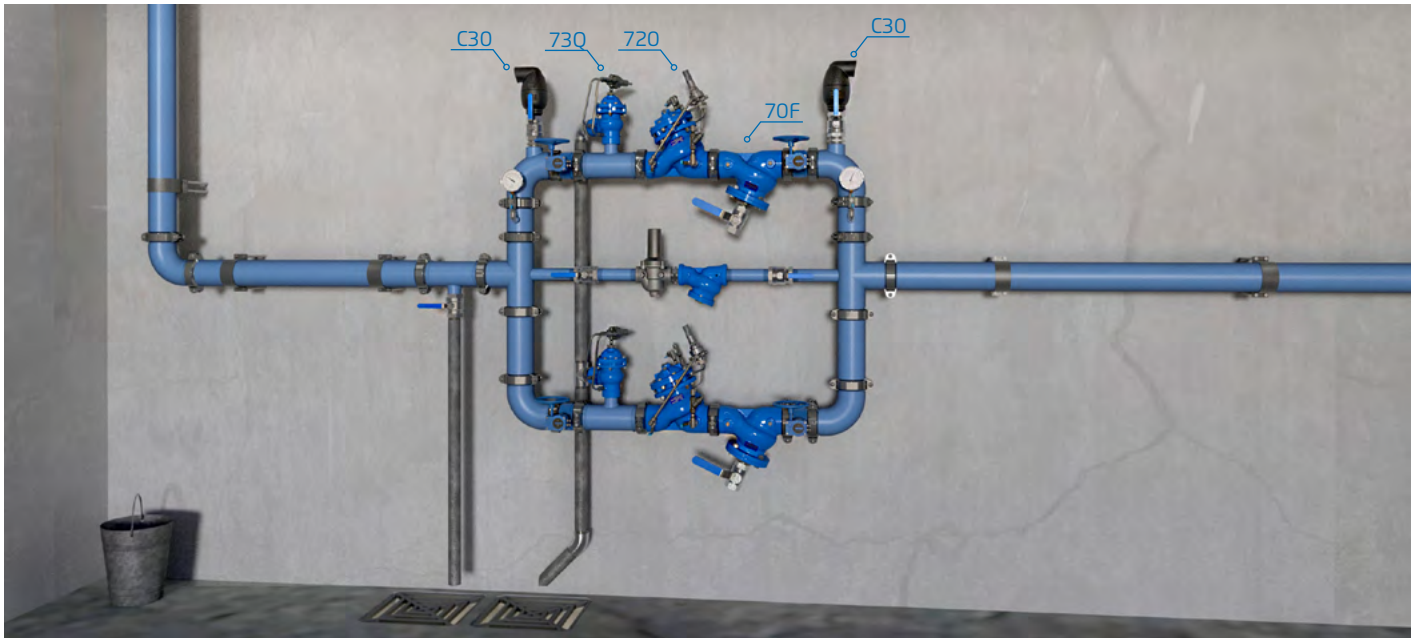
PRESSURE REDUCING VALVE

Model 720

Hydraulically operated, diaphragm actuated pressure reducing control valve that reduces a high upstream pressure to a lower constant downstream pressure, regardless of fluctuating demand or varying upstream pressure.

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.

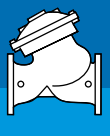


Pressure Reducing Station, featuring BERMAD 720 valves to reduce high incoming pressure to a lower downstream set-point, a redundant, parallel branch to minimize the possibility of total water shut-off and a low flow bypass branch for low demand operation. For information on the other BERMAD products in this system please see the product data sheet for the BERMAD 73Q and BERMAD 70F.

Typical Application

- For pressure control of potable water supply lines in buildings operating under tough conditions and intensive use, where maintaining accurate and stable pressure is vital
- In the main supply lines of hi-rise buildings where the building's lower zones are exposed to excessive pressure
- In parallel redundant branches where uninterrupted water supply systems are required
- Adjacent to prestigious residential and office spaces where extraneous noise and maintenance activities are to be avoided

BERMAD Buildings & Construction



700 Series

Potable Water • Pressure Control

Model 720

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
- Two-way pilot and control loop that continuously sense the downstream pressure and immediately control the valve accordingly - stable, reliable and accurate pressure modulation in wide range of flow-rates and varying pressure.
- Pilot and control loop constructed from heavy duty environment friendly materials - long lasting and reliable operation.
- V-Port Throttling Plug - Low flow stability

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

* 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" - 720 - 00 - P2 - Y - C - VI - EB - 000 - NN - VN

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
720

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**
	BS 1387	VB
Flanged (Other standards available)	ISO-16	16
	ABNT16	B6
	ANSI 150	A5
	AST-*	S*
Threaded	BSPT	BP
	NPT	NP
250-400 psi / PN25		
Grooved	ANSI C606	V2
	BS 1387	VD
Flanged (Other standards available)	ISO-25	25
	ABNT25	B2
	ANSI 300	A3
Threaded	BSPT	PH
	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
Orifice Assembly	U
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 | DVGW Germany | PUB Singapore

Manufactured and Tested According to AWWA C530-12 Requirements