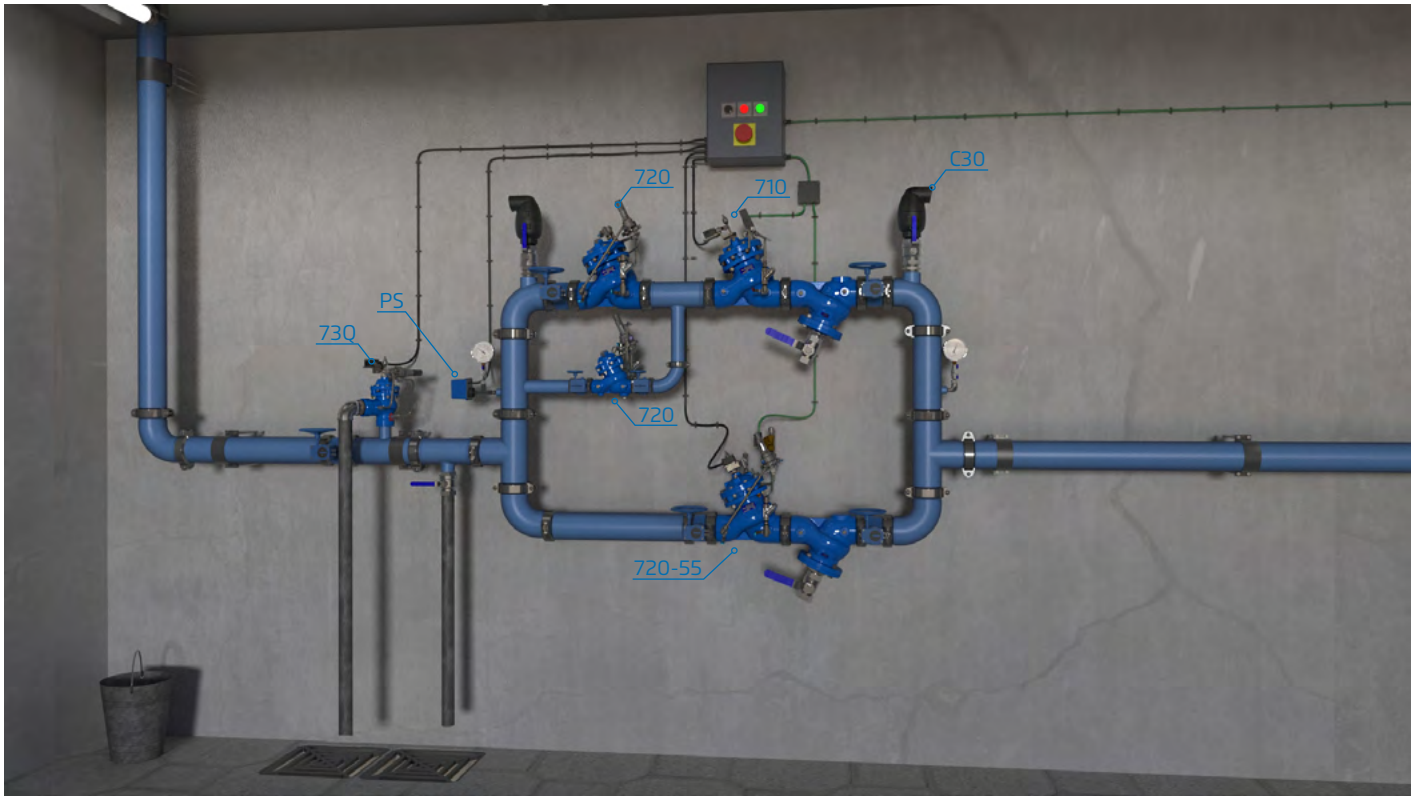
PRESSURE REDUCING VALVE

with Solenoid Control

Model 720-55

Hydraulically operated, diaphragm actuated Pressure Reducing Valve with Solenoid Control that reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand or varying upstream pressure. The valve opens and shuts off in response to an electric signal.

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.

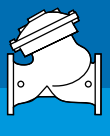


Pressure Reducing Station with Block Valve with Solenoid Control [710] and Automatic Backup PRV [720-55]. In case of abnormal pressure rise detected by the Pressure Switch [PS] the system close the Block Valve [710] automatically,opens the back-up PRV [720-55] branch and an indication is sent to the BMS.

Typical Application

- Switching between "on-duty" valves is pressure reducing systems
- Routing flow to priority or emergency system branches
- Pressure zone isolation

BERMAD Buildings & Construction



700 Series

Potable Water • Pressure Control

Model 720-55

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
- 2-Way Control Loop - Immediate, accurate response to sudden system variations
- Adjustable Pilot - Easy field pressure setting and calibration
- 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

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" - 720-55 - 00 - P2 - Y - C - VI - EB - 4AC - NN - VN

Segment	Code
BC	

Size		Code
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	Code
720-55	

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

Manufactured and Tested According to AWWA C530-12 Requirements