

Ordering Guide

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- Voltage-Main Valve Position
(When Solenoid De-energized)
- Tubing & Fittings
- Additional Attributes Unlimited Selection



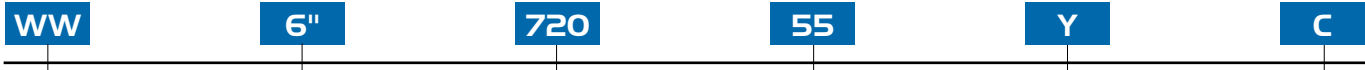
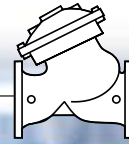
Ordering Guide

BERMAD Ordering Guide September 2009

700 Series

Water Control Solutions





Sector	Code
Waterworks	WW
Drinking Water	WD
WW Aggressive Water	WA
WW Seawater	WS
WW Air Conditioning	WC
WW Hot Water	WH

Pattern	Code
Oblique (1 1/2-20")	Y
Angle (1 1/2-18")	A
Globe(24-36")	G

Construction Material	Code
Ductile Iron	C
Cast Steel	S
Stainless Steel 316	N
Nickel Aluminum Bronze	U

Other materials available on request.

Size	Code
1 1/2" DN40	700
2" DN50	705
2 1/2" DN65	710
3" DN80	718
4" DN100	7PM
5" DN125	720
6" DN150	723
8" DN200	726
10" DN250	727
12" DN300	730
14" DN350	73Q
16" DN400	730R
18" DN450	735
20" DN500	736
24" DN600	740
28" DN700	740
30" DN750	74Q
32" DN800	742
36" DN900	743

Primary Feature	Code
Basic Valve (Double Chambered Actuator)	700
Basic Valve (Single Chambered Actuator)	705
Solenoid Controlled Valve	710
Electronic Control Valve	718
Pressure Management Valve, Flow Compensated PRV	7PM
Pressure Reducing Control Valve	720
Pressure Reducing & Sustaining Valve	723
Differential Pressure Reducing Valve	726
Flow Control Valve, Constant Downstream Pressure	727
Pressure Sustaining Valve	730
Pressure Relief Valve, Quick Type	73Q
Pressure Sustaining Valve Remote Sensing Type	730R
Surge Anticipating Valve	735
Differential Pressure Sustaining Valve	736
Booster Pump Control Valve, Single Chambered Actuator	740
Booster Pump Control Valve, Double Chambered Actuator	74Q
Booster Pump Control & Pressure Reducing Valve	742
Booster Pump Control & Pressure Sustaining Valve	743
Deep Well Pump Hydraulic Control Valve	744
Deep Well Pump Electric Control Valve	745
Booster Pump & Flow Control Valve	747
Pump Circulation & Pressure Sustaining Valve	748
Pump Circulation & Flow Control Valve	749
Level Control Valve	750
Level Control & Pressure Sustaining Valve	753
Level & Flow Control Valve	757
Level Sustaining Valve (Reservoir Outlet)	75A
Hydraulic Check Valve	760
Flow Control Valve	770
Flow Control & Pressure Reducing Valve	772
Flow Control & Pressure Sustaining Valve	773
Flow Control, Pressure Reducing & Sustaining Valve	775
Burst Control Valve (Excessive Flow)	790
Burst Control & Pressure Reducing Valve	792
Check Valve (Lift Type)	70N
Strainer (Stone and Gravel Trap)	70F

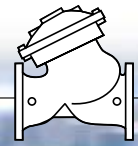
Other primary features available on request.

Additional Feature (Multiple Options Permitted)	Code
No Additional Feature	00
Closing and Opening Speed Control	03
Differential Pressure	06
Hydraulic Override	09
Check-Lock	11
High Sensitivity Pilot	12*
Electronic Control	18
Check Feature	20
Independent Flow Check (24-32" only)	2S
Solenoid Controlled & Check Feature	25
Pressure Reducing Feature	2Q
Two-Stage Opening	30
Relief Override	3Q
Electrically Selected Multi-Level Setting	45
Downstream Over Pressure Guard	48
Closing Surge Prevention	49
Motorized Pilot	4S
Electronic Multi-Level Setting - Type 4R	4R
Electronic Multi-Level Setting - Type 4T	4T
2-Way Hydraulic Relay	50
3-Way Hydraulic Relay	54
Solenoid Controlled	55
Electric Override	59
Modulating Horizontal Float	60
Bi-Level Electric Float	65
Bi-Level Vertical Float	66
Modulating Vertical Float	67
Bi-Directional Flow	70
Altitude Pilot	80*
Modulating Altitude Control	82*
Sustaining Altitude Pilot	83*
Hydraulic Positioning	85*
Bi-Level Altitude Control	86*
Altitude Control with Bi-Directional Flow	87*
Setting Range	
2-6 meter; 7-20 feet Setting	M1
2-14 meter; 7-46 feet Setting	M6
5-22 meter; 17-72 feet Setting	M5
15-35 meter; 49-115 feet Setting	M4
25-70 meter; 82-230 feet Setting	M8
Closing at Downstream Pressure Drop	91
Cavitation Cage	C1
Double Cavitation Cage	C2
Triple Chamber Valve	TC
Panel Mounted Control	L1
PRV Low Flow By-Pass	2B
Proportional	PD

Other additional features available on request.

* Select Setting Range





I6

EB

4AC

NN

F

End Connection		Code
Flanged	ISO-PN10	10
	ISO-PN16	16
	ISO-PN25	25
	ANSI-#150	A5
	ANSI-#300	A3
	BST-D	BD
	JIS-16	J6
JIS-20	J2	
Threaded	BSP	BP
	BSP-25 bar	PH
	NPT	NP
	NPT-25 bar	NH

Other end connections available on request.

Coating	Code
Epoxy FB Blue RAL 5005	EB
Polyester Green RAL 6017	PG
Polyester Blue RAL 5010	PB
Uncoated	UC

Other coatings available on request.

Voltage-Main Valve Position (When Solenoid De-energized)		Code	
24V	AC	24VAC/50Hz - Normally Closed	4AC
		24VAC/50Hz - Normally Open	4AO
		24VAC/50Hz - Last Position	4AP
	DC	24VAC/60Hz - Normally Closed	46C
		24VAC/60Hz - Normally Open	46O
		24VAC/60Hz - Last Position	46P
DC	24VDC - Normally Closed	4DC	
	24VDC - Normally Open	4DO	
	24VDC - Last Position	4DP	
	24VDC - Latch Solenoid	4DS	
220V	AC	220VAC/50-60Hz - Last Position	2AP
		220VAC/50-60Hz - Normally Closed	2AC
		220VAC/50-60Hz - Normally Open	2AO
	DC	220VDC - Normally Closed	2DC
		220VDC - Normally Open	2DO
		220VDC - Latch Solenoid	2DS
110V	AC	110VAC/50-60Hz - Normally Closed	5AC
		110VAC/50-60Hz - Normally Open	5AO
	DC	110VDC - Normally Closed	5DC
		110VDC - Normally Open	5DO
12V	DC	12VDC - Latch Solenoid	5DS
		12VDC - Normally Closed	1DC
		12VDC - Normally Open	1DO
		12VDC - Last Position	1DP
		12VDC - Latch Solenoid	1DS

Tubing & Fittings	Code
St. St. 316 Tubing & Fittings	NN
Copper Tubing & Brass Fittings	CB
Plastic Reinforced Tubing & Brass Fittings	PB
Monel Tubing & Fittings	MM

Additional Attributes (Multiple Options Permitted)	Code
V-Port Throttling Plug	V
Large Control Filter	F
Valve Position Indicator	I
Electric Limit Switch	S
Valve Position Transmitter	Q
Flow Stem	M
Lifting Spring	L
Balancing Piston Assembly	G
Orifice Assembly	U
Pressure Separator	d
Double Chambered (Active)	B
3-Way Control	X
Manual Selector	Z
Flow Over the Seat	O
St. St. 316 Control Accessories	N
St. St. 316 Actuator Internal Assembly	D
St. St. 316 Internal Trim (Closure & Seat)	T
Delrin Bearing	R
PVDF Bearing	r
High Grade Bearing & Stem	K
St. St 316. Bolts & Nuts	m
Special Elastomers for Seals & Diaphragm	E
Pressure Gauge	6

Other additional attributes are optional. Please consult our sales department for further information.

Reduction Ratios

Valve Size	Plug Type	
	Flat Disk	V-Port
1 1/2 - 2 1/2" DN40 - 65	3.7	4
3" DN80	2.6	2.9
4" DN100	2.5	2.8
6" DN150	2.5	2.7
8" DN200	2.4	2.6
10" DN250	2.3	2.5
12-14" DN300 - 350	2.2	2.4
16-20" DN400 - 500	2.2	2.3
24-36" DN600 - 900	2.2	2.3

- The reduction ratios are based on flow velocity of 2.0-3.0 m/sec.
- Reduction ratio may vary at extreme flow velocity & upstream pressure.

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Hydraulic Control Valves

700 Series


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Water Control Solutions


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