## BERMAD Ordering Guide

Hydraulic Control Valves

700 Series

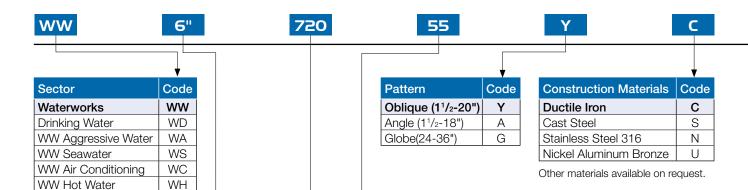


#### **BERMAD** Waterworks



Ordering Guide

700 Series



Size	
11/2"	DN40
2"	DN50
21/2"	DN65
3"	DN80
4"	DN100
5"	DN125
6"	DN150
8"	DN200
10"	DN250
12"	DN300
14"	DN350
16"	DN400
18"	DN450
20"	DN500
24"	DN600
28"	DN700
30"	DN750
32"	DN800
36"	DN900

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Primary Features	Code
Basic Valve (Double Chambered Actuator)	700
Basic Valve (Single Chambered Actuator)	705
Solenoid Controlled Valve	710
Electronic Control Valve	718
Pressure Management Valve,	7PM
Flow Compensated PRV	/ FIVI
Pressure Reducing Control Valve	720
Pressure Sustaining & Reducing Valve	723
Differential Pressure Reducing Valve	726
Flow Control Valve, Constant Downstream Pressure	727
Electronic Pressure Reducing Valve	728
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
Electronic Pressure Sustaining Valve	738
Booster Pump Control Valve,	740
Single Chambered Actuator	740
Booster Pump Control Valve,	74Q
Double Chambered Actuator	
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
Burst Control Valve (Excessive Flow)	790
Burst Control & Pressure Reducing Valve	792
Check Valve (Lift Type)	70N
Strainer (Stone and Gravel Trap)	70F

	•
Additional Features	Code
(Multiple Choices Permitted)	Oodo
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
Hydraulic Control	50
Hydraulic Accelerator Control	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
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
Proportional	PD

Other additional features available on request.



#### **BERMAD** Waterworks



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Code

NN

CB

PB

MM

**Tubing & Fittings** 

& Brass Fittings
Monel Tubing & Fittings

St. St. 316 Tubing & Fittings

Plastic Reinforced Tubing

Copper Tubing & Brass Fittings

			₩
	End Connection	ns	Code
	ISO - 10		10
	ISO - 16		16
0	TISO - 25		
ge	ANSI - 150 ANSI - 300 BST - D		A5
la la			A3
ш			BD
	JIS - 16		J6
	JIS - 20		J2
Threaded	BSP	()	BP
	BSP - 25 bar	(up to 3")	PH
	NPT	p t	NP
È	NPT - 25 bar	]	NH

Other end connections available on request.

		Voltage-Main Valve Position (When Solenoid De-energized)	Code	
		24VAC/50Hz - Normally Closed		
		24VAC/50Hz - Normally Open	4AO	
	AC	24VAC/50Hz - Last Position	4AP	
	Ā	24VAC/60Hz - Normally Closed	46C	
24V		24VAC/60Hz - Normally Open	460	
57		24VAC/60Hz - Last Position	46P	
		24VDC - Normally Closed	4DC	
	Ö	24VDC - Normally Open	4DO	
		□ 24VDC - Last Position		
	24VDC - Latch Solenoid		4DS	
		220VAC/50-60Hz Last Position	2AP	
		220VAC/50-60Hz Normally Closed	2AC	
	AC	220VAC/50-60Hz Normally Open	2AO	
220V		220VAC/50-60Hz Motorized Ball	2AM	
22		Valve - Last Position	27 (17)	
	()	220VDC - Normally Closed	2DC	
	20	220VDC - Normally Open	2DO	
		220VDC - Latch Solenoid	2DS	
	AC	110VAC/50 - 60Hz Normally Closed	5AC	
>		110VAC/50 - 60Hz Normally Open	5AO	
110V		110VDC - Normally Closed	5DC	
-	20	110VDC - Normally Open	5DO	
		110VDC - Latch Solenoid	5DS	
Other electrical ratings available on request.			t.	

4AC

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

Transparent Polyurethane top coating is available for epoxy coated valves. Other coatings available on request.

Additional Attributes Unlimited Selection	Code
V-Port Throttling Plug (U-Type)	V
Large Control Filter	F
Valve Position Indicator	I
Electric Limit Switch	S
Valve Position Transmitter	Q
Flow Stem	М
Lifting Spring	L
Balancing Piston Assembly	G
Orifice Assembly	U
Pressure Separator	d
Double Chambered (Active)	В
3-Way Control Loop	X
Manual Selector	Z
Flow Over the Seat	0
St. St. 316 Control Accessories	N
St. St. 316 Actuator Internal Assembly	D
St. St. 316 Internal Trim (Closure & Seat)	Т
Delrin Bearing	R
High Grade Bearing & Stem	K
St. St. Bolts & Nuts	m
Special Elastomers for Seals & Diaphragm	Е
Pressure Gauge	6

Other additional attributes are optional.

Please consult our sales department for further information.  $\label{eq:please} % \begin{center} \begin{center$ 

Volve Cire	Plug Type	
Valve Size	Flat Disk	V-Port
1 <sup>1</sup> / <sub>2</sub> - 2 <sup>1</sup> / <sub>2</sub> " 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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