

# Ordering Guide

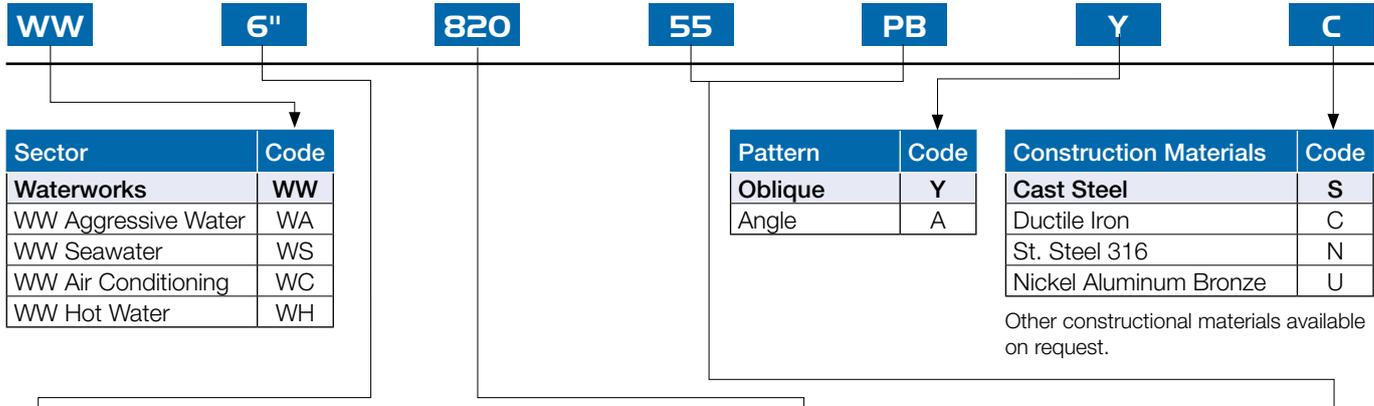
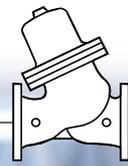
- Sector
- Size
- Primary Feature
- Additional Feature  
(Multiple Choices Permitted)
- Pattern
- Construction Materials
- End Connections
- Coatings
- Voltage-Main Valve Position  
(When Solenoid De-energized)
- Tubing & Fittings
- Additional Attributes Unlimited Selection



# BERMAD Ordering Guide

Hydraulic Control Valves

800 Series



Sector	Code
<b>Waterworks</b>	<b>WW</b>
WW Aggressive Water	WA
WW Seawater	WS
WW Air Conditioning	WC
WW Hot Water	WH

Pattern	Code
<b>Oblique</b>	<b>Y</b>
Angle	A

Construction Materials	Code
<b>Cast Steel</b>	<b>S</b>
Ductile Iron	C
St. Steel 316	N
Nickel Aluminum Bronze	U

Other constructional materials available on request.

Size	
1 1/2"	DN40
2"	DN50
2 1/2"	DN65
3"	DN80
4"	DN100
5"	DN125
6"	DN150
8"	DN200
10"	DN250
12"	DN300
14"	DN350
16"	DN400
18"	DN450
20"	DN500

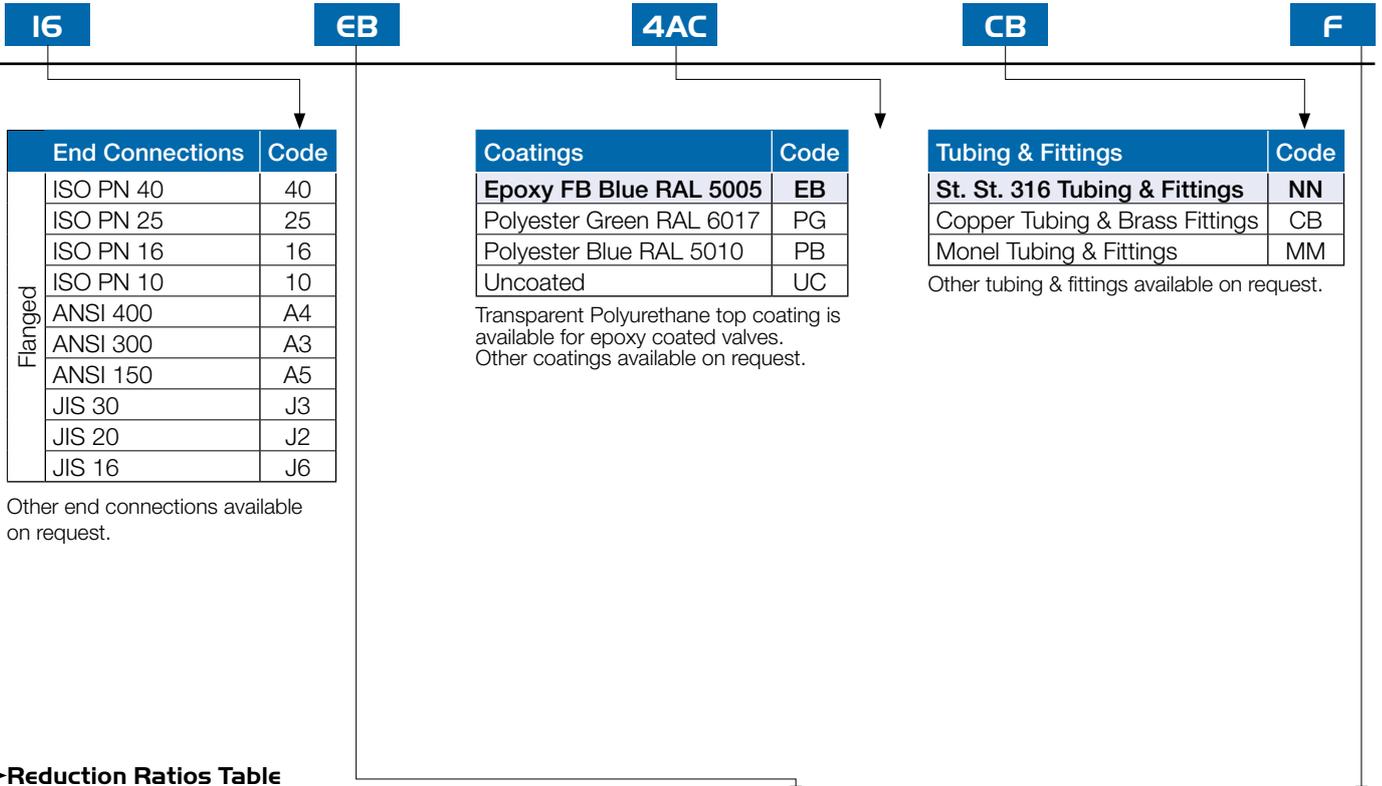
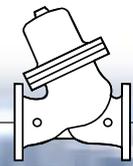
Primary Features	Code
Basic Valve (Double Chambered Actuator)	800
Basic Valve (Single Chambered Actuator)	805
Solenoid Controlled Valve	810
Electronic Control Valve	818
Pressure Reducing Control Valve	820
Pressure Sustaining & Reducing Valve	823
Flow Control Valve, Constant Downstream Pressure	827
Pressure Sustaining Valve	830
Pressure Relief Valve, Quick Type	83Q
Surge Anticipating Valve	835
Booster Pump Control Valve	840
Booster Pump Control & Pressure Reducing Valve	842
Booster Pump Control & Pressure Sustaining Valve	843
Deep Well Pump Electric Control Valve	845
Booster Pump & Flow Control Valve	847
Pump Circulation & Pressure Sustaining Valve	848
Pump Circulation & Flow Control Valve	849
Level Control Valve	850
Hydraulic Check Valve	860
Flow Control Valve	870
Burst Control Valve (Excessive Flow)	890
Strainer (Stone and Gravel Trap)	80F
Check Valve (Lift Type)	80N

Other primary features available on request.

Other constructional materials available on request.	Code
No Additional Feature	00
Closing and Opening Speed Control	03
Hydraulic Override	09
Check-Lock	11
Electronic Control	18
Check Feature	20
Solenoid Controlled & Check Feature	25
Pressure Reducing Feature	2Q
Two-Stage Opening	30
Relief Override	3Q
Electrically Selected Multi-Setting Levels	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
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	PP
Single Chambered	PA
Double Chambered	PB

Other additional features available on request.





End Connections		Code
Flanged	ISO PN 40	40
	ISO PN 25	25
	ISO PN 16	16
	ISO PN 10	10
	ANSI 400	A4
	ANSI 300	A3
	ANSI 150	A5
	JIS 30	J3
	JIS 20	J2
	JIS 16	J6

Other end connections available on request.

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.

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

Other tubing & fittings available on request.

### Reduction Ratios Table

Valve Size	Reduction Ratio	Voltage-Main Valve Position (When Solenoid De-energized)	Code	Additional Attributes Unlimited Selection	Code						
1 1/2 - 2 1/2" DN40 - 65	2.3	24V	AC	24VAC/50Hz - Normally Closed	4AC	V-Port Throttling Plug (U-Type)	V				
				24VAC/50Hz - Normally Open	4AO	Large Control Filter	F				
24VAC/50Hz - Last Position	4AP			Valve Position Indicator	I						
24VAC/60Hz - Normally Closed	46C			Electric Limit Switch	S						
24VAC/60Hz - Normally Open	46O			Valve Position Transmitter	Q						
24VAC/60Hz - Last Position	46P			Flow Stem	M						
3" DN80	2.3		DC	24VDC - Normally Closed	4DC	Lifting Spring	L				
				24VDC - Normally Open	4DO	Balancing Piston	G				
				24VDC - Last Position	4DP	Orifice Assembly	U				
				24VDC - Latch Solenoid	4DS	Pressure Separator	d				
				4" DN100	2.5	220V	AC	220VAC/50-60Hz Last Position	2AP	Double Chambered (Active)	B
								220VAC/50-60Hz Normally Closed	2AC	3-Way Control Loop	X
220VAC/50-60Hz Normally Open	2AO	Manual Selector	Z								
220VAC/50-60Hz Motorized Ball Valve - Last Position	2AM	Flow Over the Seat	O								
6" DN150	2.2	DC	220VDC - Normally Closed					2DC	St. St. 316 Control Accessories	N	
			220VDC - Normally Open					2DO	St. St. 316 Actuator Internal Assembly	D	
			220VDC - Latch Solenoid	2DS	St. St. 316 Internal Trim (Closure & Seat)		T				
			8" DN200	2.3	110V		AC	110VAC/50 - 60Hz Normally Closed	5AC	Delrin Bearing	R
								110VAC/50 - 60Hz Normally Open	5AO	High Grade Bearing & Stem	K
								110VDC - Normally Closed	5DC	St. St. Bolts & Nuts	m
110VDC - Normally Open	5DO	Special Elastomers for Seals & Diaphragm						E			
10" DN250	2.3	DC						110VDC - Latch Solenoid	5DS	Pressure Gauge	6
						12-14" DN300 - 350		2.1	AC	220VAC/50-60Hz Last Position	2AP
			220VAC/50-60Hz Normally Closed	2AC							
			220VAC/50-60Hz Normally Open	2AO							
			220VAC/50-60Hz Motorized Ball Valve - Last Position	2AM							
			16-20" DN400 - 500	2.2			DC			220VDC - Normally Closed	2DC
220VDC - Normally Open	2DO										
220VDC - Latch Solenoid	2DS										

Other electrical ratings available on request.

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



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800 Series



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