

FP		2"	
<b>Category</b>	<b>Code</b>	<b>Group</b>	<b>Description</b>
Standard	FP	Classic Deluge with Local Reset <sup>(1)</sup>	Hydraulically Controlled with EasyLock
Sea or Brackish water	FS		Electrically Controlled with EasyLock
Foam Concentrate	FC		Electrically Controlled with 3/2 Local Reset Pilot
			Pneumatically Controlled with Local Reset Pilot
			Hydraulically Controlled Anti-Columning with Local Reset Pilot
		Deluge Valve Remote Reset <sup>(1)</sup>	Electro-Pneumatically Controlled with Local Reset Pilot
			Electrically Controlled Deluge Valve
		Pressure Control Deluge <sup>(2)</sup> with Local Reset	Electro Pneumatically Controlled Deluge Valve
			Hydraulically Controlled
			Electrically Controlled
			Pneumatically Controlled
		Pressure Control Deluge <sup>(2)</sup> On-Off	Electro Pneumatically Controlled
			Electrically Controlled On-Off
			Pneumatically Controlled On-Off
		On-Off Deluge <sup>(2)</sup>	Hydraulically Controlled On-Off
			Electro-Pneumatically Controlled On-Off
			Electrically Controlled
		Foam Concentrate <sup>(2)</sup> Remote control	Electro-Pneumatically Controlled
			Pneumatically Controlled
			Hydraulically Controlled
		Foam Concentrate Pressure Control	Electrically Controlled
			Electro Pneumatically Controlled
			Pneumatically Controlled
		Foam Concentrate Zero Pressure	Hydraulically Controlled
			Electrically Controlled
			Electro Pneumatically Controlled
			Pneumatically Controlled
			Hydraulically Controlled

  

Valve Size	
1½"	40 mm
2"	50 mm
3"	80 mm
4"	100 mm
6"	150 mm
8"	200 mm
10"	250 mm
12"	300 mm
14"	350 mm
16"	400 mm

# BERMAD Fire Protection Ordering Guide





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Foam Concentrate	FC

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Group	Description	Model
Classic Deluge with Local Reset <sup>(1), (2)</sup>	Hydraulically Controlled with EasyLock	400Y-1M
	Electrically Controlled with EasyLock	400Y-2M
	Electrically Controlled with 3/2 Local Reset Pilot	400Y-3UM
	Pneumatically Controlled with Local Reset Pilot	400Y-4M
	Hydraulically Controlled Anti-Columning with Local Reset Pilot <sup>(5)</sup>	400Y-5M
	Electro-Pneumatically Controlled with Local Reset Pilot	400Y-6M
Deluge Valve Remote Reset <sup>(1), (2)</sup>	Electrically Controlled Deluge Valve	400Y-3U
	Electro Pneumatically Controlled Deluge Valve	400Y-6U
Pressure Control Deluge with Local Reset <sup>(1)</sup>	Hydraulically Controlled	400Y-1MC
	Electrically Controlled	400Y-2MC
	Pneumatically Controlled	400Y-4DC-H
	Electro Pneumatically Controlled	400Y-6DC-H
Pressure Control Deluge On-Off <sup>(1)</sup>	Electrically Controlled On-Off, 2-way Solenoid Valve	400Y-2DC
	Electrically Controlled On-Off	400Y-3DC
	Pneumatically Controlled On-Off	400Y-4DC
	Hydraulically Controlled On-Off	400Y-5DC
	Electro-Pneumatically Controlled On-Off	400Y-6DC
On-Off Deluge <sup>(1)</sup>	Electrically Controlled	400Y-3D
	Electro-Pneumatically Controlled	400Y-6D
	Pneumatically Controlled	400Y-4D
	Hydraulically Controlled	400Y-5D
Foam Concentrate Remote control <sup>(1)</sup>	Electrically Controlled	400Y-3U-N
	Electro Pneumatically Controlled	400Y-6U-N
	Pneumatically Controlled	400Y-4U-N
	Hydraulically Controlled	400Y-5U-N
Foam Concentrate Pressure Control <sup>(1)</sup>	Electrically Controlled	400Y-3DC-N
	Electro Pneumatically Controlled	400Y-6DC-N
	Pneumatically Controlled	400Y-4DC-N
	Hydraulically Controlled	400Y-5DC-N
Foam Concentrate Zero Pressure	Electrically Controlled	700E-3X-BO-N
	Electro Pneumatically Controlled	700E-6X-BO-N
	Pneumatically Controlled	700E-4X-BO-N
	Hydraulically Controlled	700E-5X-BO-N
Locally Operated	Locally Controlled Monitor/Deluge Valve	400Y-11
	Monitor/Deluge Valve <sup>(1)</sup>	400Y-1D
Pre-Action & Dry Pipe <sup>(1), (2)</sup>	Single Interlock Electric Release Pre-Action System	400Y-7M
	Double Interlock Electric-Electric Release Pre-Action System	400Y-7BM
	Double Interlock Electric-Pneumatic Release Pre-Action System	400Y-7DM
	Dry Pipe Valve	400Y-DP
Pressure Control Valves	Pressure Reducing Valve <sup>(1), (4)</sup>	42T
	Pressure Control & Non-Return Valve <sup>(1)</sup>	42T-20
	Pressure Reducing Valve <sup>(9)</sup>	720-UL
	Pressure Relief Valve <sup>(3), (4)</sup>	43T
	Fire Pump Suction Pressure Control Valve	43T-PS
	Pressure Relief Valve <sup>(9), (10)</sup>	730-UF
	Anti-Surge Pump Start Control Valve	730-48-BL <sup>(8)</sup>
	Differential Pressure Control/Reducing	42T-06
	Differential Pressure Sustaining	43T-06
	Pressure Relief Valve with Electric Override	43T-59
Level Control	Altitude Pilot <sup>(6)</sup>	450-82
	Modulating Horizontal Float	450-60
	Bi-Level Electrical Float	450-65
	Vertical Float <sup>(7)</sup>	450-66/67

**Notes:**

- (1) UL Listed for sizes 1½" - 16"
- (2) FM Approved for sizes 1½", 2", 3", 4", 6" & 8"  
When provided with full trim (code "A" in Options)
- (3) UL Listed: 1½" - 10"
- (4) FM Approved: 1½" - 10"
- (5) Add Elevation code after the model:  
"00" - for elevation below 10m/33ft  
"M6" - for Max elevation 35m/115ft  
"M7" - for Max elevation 70m/230ft
- (6) Add altitude pilot adjustment ranges after the model:  
"M6" for 2-14 m (standard), "M5" for 5-22 m,  
"M4" for 15-35 m and "M8" for 25-70
- (7) The model 450-66 is Bi-Level type.  
The 450-67 is for reservoir "always full" application
- (8) Add "BL" suffix to the valve code
- (9) UL Listed for sizes 2", 2½", 3", 4", 6" & 8"  
Refer to the catalog sheets for pressure ratings
- (10) FM Approved for sizes 2", 2½", 3", 4", 6" & 8"  
Refer to the catalog sheets for pressure ratings

**BERMAD Standard Configuration**



Option For Pressure Control Deluge valve	Code	Voltage - Main Valve Position (When Solenoid De-Energized)	Code	Options	Code
Differential Pressure Sensing	06	<b>24VDC - N.C. (Standard)</b>	<b>4DC</b>	Pressure Switch, General Purpose <sup>(3)</sup>	P
Closing Speed control	01	24VDC - N.O.	4DO	Ex Proof Pressure Switch <sup>(3)</sup>	P7
Opening Speed control	02	24VDC - Magna Latch	4DS	Ex d ATEX Pressure Switch <sup>(3)</sup>	P9
Opening & Closing Speed control	03	110VDC - N.C.	5DC	Ex d Pressure Switch, Monel Sensor	P9m
None	-	110VDC - N.O.	5DO	Ex d Pressure Switch, SS316 Enclosure	P9Jn
		110V/50-60 - N.C.	5AC	Ex d Pressure Switch, SS316 Enclosure, Monel Sensor	P9mJn
		110V/50-60 - N.O.	5AO	Single Limit Switch, General Purpose <sup>(4)</sup>	S
		220V/50-60 - N.C.	2AC	Single Ex d Proximity Limit Switch <sup>(4)</sup>	S9
		220V/50-60 - N.O.	2AO	Double Ex d Proximity Limit Switch <sup>(4)</sup>	SS9
				Pressure Gauge Assembly <sup>(3)</sup>	6
				S.S. Glycerin Pressure Gauge Assembly <sup>(3)</sup>	6n
				Monel Pressure Gauge Assembly <sup>(3)</sup>	6m
				Ex Proof NEC Class 1 Div.1 Solenoid	7
				Ex d ATEX Solenoid	9
				Drip Check	DC
				Drain Valve	DV
				Manual Emergency Release Box	D
				Mechanical Latching Pilot	H
				Mechanical Latching Solenoid	H1
				Magna-Latch Solenoid - 2 wires	H2
				Magna-Latch Solenoid - 3 wires	H3
				Water Motor Alarm Assembly <sup>(3)</sup>	W
				EPDM Elastomer	E1
				NBR Elastomer	E3
				Large Control Filter	F
				Valve Position Indicator, Linear	I
				Valve Position Indicator, Rotating	RI
				Junction Box	J
				S.S. Solenoid Valve	K
				S.S. 316 Trim Accessories	N
				Pressure Transmitter <sup>(3)</sup>	Q
				Drain and Indicating Components	A
				S.S. 316 Seat Ring	T

  

Installation/Pattern	Code	Tubing & Fittings	Code
<b>Vertical</b>	<b>V</b>	<b>Stainless Steel 316 (Standard)</b>	<b>NN</b>
Horizontal	H	Monel	MM
Oblique (700 only)	Y <sup>(1)</sup>		
Angle (700 only)	A <sup>(1)</sup>		

  

Body Material <sup>(5)</sup>	Code	Coating	Code
<b>Ductile Iron (Standard) <sup>(6)</sup></b>	<b>C</b>	<b>High Build Epoxy Red <sup>(6)</sup></b>	<b>ER</b>
Cast Steel <sup>(6)</sup>	S	Zinc Based High Build Epoxy Red <sup>(6)</sup>	ZR
Stainless Steel 316	N	Uncoated	UC
Nickel Al. Bronze	U		

  

End Connections	Code
<b>ANSI #150RF (Standard)</b>	<b>A5</b>
ANSI #150RF-SF <sup>(7)</sup>	AM
ANSI #150FF	a5
ANSI #150FF-SF <sup>(7)</sup>	aM
ANSI #300RF	A3
ANSI #300FF <sup>(7)</sup>	a3
ANSI #300FF-SF <sup>(7)</sup>	aS
ANSI #300RF-SF <sup>(7)</sup>	AS
ISO-PN16	16
ISO-PN25 <sup>(1)</sup>	25
Grooved ANSI C606 235 psi (16 bar) <sup>(2)</sup>	VI
Grooved ANSI C606 365 psi (25 bar) <sup>(2)</sup>	V2

  

**Notes:**

- (1) 700 series only
- (2) Size 1½ to 8" only
- (3) Instrument supplied loose
- (4) Linear type, for Rotating Position Indicator or Switch Box add the letter "R" before the code e.g. RS, RS9, RSS9
- (5) Other materials available – consult BERMAD
- (6) Coated internally and externally
- (7) Serrated Finish (SF) Bronze/Steel alloys as per MSS-SP-6, applicable for Uncoated S.Steel, Ni.A.Bronze and other high alloys only

### Separate Items & System Components

Description	BERMAD Catalog Number
Water Motor Alarm Assy. (W) w/Strainer for Deluge/Preaction System	9901240028
AMD-74, Air Maintenance Device w/Regulator for External Pressure Supply (standard materials)	TEX0000003
AMD-76, Air Maintenance Device Regulated By-Pass Pressure Supply (standard materials)	TEX0000009
Manual Release Station Model-D w/S.S. 304 Box-Brass valve	2920400093
S.S. 316 Manual Release Station Model-DN w/S.S. 316 Box	2920451093

### BERMAD Standard Configuration





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