

FP		2"	
Category	Code	Group	Description
Standard	FP	Classic Deluge with Local Reset ⁽¹⁾	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 ⁽¹⁾	Electro-Pneumatically Controlled with Local Reset Pilot
			Electrically Controlled Deluge Valve
		Pressure Control Deluge ⁽²⁾ with Local Reset	Electro Pneumatically Controlled Deluge Valve
			Hydraulically Controlled
			Electrically Controlled
			Pneumatically Controlled
		Pressure Control Deluge ⁽²⁾ On-Off	Electro Pneumatically Controlled
			Electrically Controlled On-Off
			Pneumatically Controlled On-Off
		On-Off Deluge ⁽²⁾	Hydraulically Controlled On-Off
			Electro-Pneumatically Controlled On-Off
			Electrically Controlled
		Foam Concentrate ⁽²⁾ Remote control	Electro-Pneumatically Controlled
			Pneumatically Controlled
			Hydraulically Controlled
			Electrically Controlled
		Foam Concentrate Pressure Control	Electro Pneumatically Controlled
			Pneumatically Controlled
			Hydraulically Controlled
		Foam Concentrate Zero Pressure	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





Category	Code
Standard	FP
Sea or Brackish water	FS
Foam Concentrate	FC

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

Group	Description	Model
Classic Deluge with Local Reset ^{(1), (2)}	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 ⁽⁵⁾	400Y-5M
	Electro-Pneumatically Controlled with Local Reset Pilot	400Y-6M
Deluge Valve Remote Reset ^{(1), (2)}	Electrically Controlled Deluge Valve	400Y-3U
	Electro Pneumatically Controlled Deluge Valve	400Y-6U
Pressure Control Deluge with Local Reset ⁽¹⁾	Hydraulically Controlled	400Y-1MC
	Electrically Controlled	400Y-2MC
	Pneumatically Controlled	400Y-4DC-H
	Electro Pneumatically Controlled	400Y-6DC-H
Pressure Control Deluge On-Off ⁽¹⁾	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 ⁽¹⁾	Electrically Controlled	400Y-3D
	Electro-Pneumatically Controlled	400Y-6D
	Pneumatically Controlled	400Y-4D
	Hydraulically Controlled	400Y-5D
Foam Concentrate Remote control ⁽¹⁾	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 ⁽¹⁾	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 ⁽¹⁾	400Y-1D
Pre-Action & Dry Pipe ^{(1), (2)}	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 ^{(1), (4)}	42T
	Pressure Control & Non-Return Valve ⁽¹⁾	42T-20
	Pressure Reducing Valve ⁽⁹⁾	720-UL
	Pressure Relief Valve ^{(3), (4)}	43T
	Fire Pump Suction Pressure Control Valve	43T-PS
	Pressure Relief Valve ^{(9), (10)}	730-UF
	Anti-Surge Pump Start Control Valve	730-48-BL ⁽⁸⁾
	Differential Pressure Control/Reducing	42T-06
	Differential Pressure Sustaining	43T-06
	Pressure Relief Valve with Electric Override	43T-59
Level Control	Altitude Pilot ⁽⁶⁾	450-82
	Modulating Horizontal Float	450-60
	Bi-Level Electrical Float	450-65
	Vertical Float ⁽⁷⁾	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



BERMAD Fire Protection

Ordering Guide

06	V	C	A5	PR	4DC	NN	7P7K																																																																																																																																																												
<table border="1"> <thead> <tr> <th>Option For Pressure Control Deluge valve</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Differential Pressure Sensing</td> <td>06</td> </tr> <tr> <td>Closing Speed control</td> <td>01</td> </tr> <tr> <td>Opening Speed control</td> <td>02</td> </tr> <tr> <td>Opening & Closing Speed control</td> <td>03</td> </tr> </tbody> </table>	Option For Pressure Control Deluge valve	Code	Differential Pressure Sensing	06	Closing Speed control	01	Opening Speed control	02	Opening & Closing Speed control	03	<table border="1"> <thead> <tr> <th>Installation/Pattern</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Vertical</td> <td>V</td> </tr> <tr> <td>Horizontal</td> <td>H</td> </tr> <tr> <td>Oblique (700 only)</td> <td>Y ⁽¹⁾</td> </tr> <tr> <td>Angle (700 only)</td> <td>A ⁽¹⁾</td> </tr> </tbody> </table>	Installation/Pattern	Code	Vertical	V	Horizontal	H	Oblique (700 only)	Y ⁽¹⁾	Angle (700 only)	A ⁽¹⁾	<table border="1"> <thead> <tr> <th>Body Material ⁽⁵⁾</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Ductile Iron (Standard) ⁽⁶⁾</td> <td>C</td> </tr> <tr> <td>Cast Steel ⁽⁶⁾</td> <td>S</td> </tr> <tr> <td>Stainless Steel 316</td> <td>N</td> </tr> <tr> <td>Nickel Al. Bronze</td> <td>U</td> </tr> </tbody> </table> <p>For others consult BERMAD.</p>	Body Material ⁽⁵⁾	Code	Ductile Iron (Standard) ⁽⁶⁾	C	Cast Steel ⁽⁶⁾	S	Stainless Steel 316	N	Nickel Al. Bronze	U	<table border="1"> <thead> <tr> <th>End Connections</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>ANSI #150RF (Standard)</td> <td>A5</td> </tr> <tr> <td>ANSI #150RF-SF ⁽⁷⁾</td> <td>AM</td> </tr> <tr> <td>ANSI #150FF</td> <td>a5</td> </tr> <tr> <td>ANSI #150FF-SF ⁽⁷⁾</td> <td>aM</td> </tr> <tr> <td>ANSI #300RF</td> <td>A3</td> </tr> <tr> <td>ANSI #300FF ⁽⁷⁾</td> <td>a3</td> </tr> <tr> <td>ANSI #300FF-SF ⁽⁷⁾</td> <td>aS</td> </tr> <tr> <td>ANSI #300RF-SF ⁽⁷⁾</td> <td>AS</td> </tr> <tr> <td>ISO-PN16</td> <td>16</td> </tr> <tr> <td>ISO-PN25 ⁽¹⁾</td> <td>25</td> </tr> <tr> <td>Grooved ANSI C606 235 psi (16 bar) ⁽²⁾</td> <td>VI</td> </tr> <tr> <td>Grooved ANSI C606 365 psi (25 bar) ⁽²⁾</td> <td>V2</td> </tr> </tbody> </table>	End Connections	Code	ANSI #150RF (Standard)	A5	ANSI #150RF-SF ⁽⁷⁾	AM	ANSI #150FF	a5	ANSI #150FF-SF ⁽⁷⁾	aM	ANSI #300RF	A3	ANSI #300FF ⁽⁷⁾	a3	ANSI #300FF-SF ⁽⁷⁾	aS	ANSI #300RF-SF ⁽⁷⁾	AS	ISO-PN16	16	ISO-PN25 ⁽¹⁾	25	Grooved ANSI C606 235 psi (16 bar) ⁽²⁾	VI	Grooved ANSI C606 365 psi (25 bar) ⁽²⁾	V2	<table border="1"> <thead> <tr> <th>Voltage - Main Valve Position (When Solenoid De-Energized)</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>24VDC - N.C. (Standard)</td> <td>4DC</td> </tr> <tr> <td>24VDC - N.O.</td> <td>4DO</td> </tr> <tr> <td>24VDC - Magna Latch</td> <td>4DS</td> </tr> <tr> <td>110VDC - N.C.</td> <td>5DC</td> </tr> <tr> <td>110VDC - N.O.</td> <td>5DO</td> </tr> <tr> <td>110V/50-60 - N.C.</td> <td>5AC</td> </tr> <tr> <td>110V/50-60 - N.O.</td> <td>5AO</td> </tr> <tr> <td>220V/50-60 - N.C.</td> <td>2AC</td> </tr> <tr> <td>220V/50-60 - N.O.</td> <td>2AO</td> </tr> </tbody> </table>	Voltage - Main Valve Position (When Solenoid De-Energized)	Code	24VDC - N.C. (Standard)	4DC	24VDC - N.O.	4DO	24VDC - Magna Latch	4DS	110VDC - N.C.	5DC	110VDC - N.O.	5DO	110V/50-60 - N.C.	5AC	110V/50-60 - N.O.	5AO	220V/50-60 - N.C.	2AC	220V/50-60 - N.O.	2AO	<table border="1"> <thead> <tr> <th>Tubing & Fittings</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Stainless Steel 316 (Standard)</td> <td>NN</td> </tr> <tr> <td>Monel</td> <td>MM</td> </tr> </tbody> </table> <p>For others consult BERMAD.</p>	Tubing & Fittings	Code	Stainless Steel 316 (Standard)	NN	Monel	MM	<table border="1"> <thead> <tr> <th>Coating</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Polyester Red (Standard) ⁽⁶⁾</td> <td>PR</td> </tr> <tr> <td>High Build Epoxy Red RAL 3002 ⁽⁶⁾</td> <td>ER</td> </tr> <tr> <td>Uncoated</td> <td>UC</td> </tr> </tbody> </table>	Coating	Code	Polyester Red (Standard) ⁽⁶⁾	PR	High Build Epoxy Red RAL 3002 ⁽⁶⁾	ER	Uncoated	UC	<table border="1"> <thead> <tr> <th>Options</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Pressure Switch, General Purpose ⁽³⁾</td> <td>P</td> </tr> <tr> <td>Ex Proof Pressure Switch ⁽³⁾</td> <td>P7</td> </tr> <tr> <td>Ex d ATEX Pressure Switch ⁽³⁾</td> <td>P9</td> </tr> <tr> <td>Ex d Pressure Switch, Monel Sensor</td> <td>P9m</td> </tr> <tr> <td>Ex d Pressure Switch, SS316 Enclosure</td> <td>P9Jn</td> </tr> <tr> <td>Ex d Pressure Switch, SS316 Enclosure, Monel Sensor</td> <td>P9mJn</td> </tr> <tr> <td>Single Limit Switch, General Purpose ⁽⁴⁾</td> <td>S</td> </tr> <tr> <td>Single Ex d Proximity Limit Switch ⁽⁴⁾</td> <td>S9</td> </tr> <tr> <td>Double Ex d Proximity Limit Switch ⁽⁴⁾</td> <td>SS9</td> </tr> <tr> <td>Pressure Gauge Assembly ⁽³⁾</td> <td>6</td> </tr> <tr> <td>S.S. Glycerin Pressure Gauge Assembly ⁽³⁾</td> <td>6n</td> </tr> <tr> <td>Monel Pressure Gauge Assembly ⁽³⁾</td> <td>6m</td> </tr> <tr> <td>Ex Proof NEC Class 1 Div.1 Solenoid</td> <td>7</td> </tr> <tr> <td>Ex d ATEX Solenoid</td> <td>9</td> </tr> <tr> <td>Drip Check</td> <td>DC</td> </tr> <tr> <td>Drain Valve</td> <td>DV</td> </tr> <tr> <td>Manual Emergency Release Box</td> <td>D</td> </tr> <tr> <td>Mechanical Latching Pilot</td> <td>H</td> </tr> <tr> <td>Mechanical Latching Solenoid</td> <td>H1</td> </tr> <tr> <td>Magna-Latch Solenoid</td> <td>H2</td> </tr> <tr> <td>Water Motor Alarm Assembly ⁽³⁾</td> <td>W</td> </tr> <tr> <td>EPDM Elastomer</td> <td>E1</td> </tr> <tr> <td>NBR Elastomer</td> <td>E3</td> </tr> <tr> <td>Large Control Filter</td> <td>F</td> </tr> <tr> <td>Valve Position Indicator, Linear</td> <td>I</td> </tr> <tr> <td>Valve Position Indicator, Rotating</td> <td>RI</td> </tr> <tr> <td>Junction Box</td> <td>J</td> </tr> <tr> <td>S.S. Solenoid Valve</td> <td>K</td> </tr> <tr> <td>S.S. 316 Trim Accessories</td> <td>N</td> </tr> <tr> <td>Pressure Transmitter ⁽³⁾</td> <td>Q</td> </tr> <tr> <td>Drain and Indicating Components</td> <td>A</td> </tr> <tr> <td>S.S. 316 Seat Ring</td> <td>T</td> </tr> </tbody> </table>	Options	Code	Pressure Switch, General Purpose ⁽³⁾	P	Ex Proof Pressure Switch ⁽³⁾	P7	Ex d ATEX Pressure Switch ⁽³⁾	P9	Ex d Pressure Switch, Monel Sensor	P9m	Ex d Pressure Switch, SS316 Enclosure	P9Jn	Ex d Pressure Switch, SS316 Enclosure, Monel Sensor	P9mJn	Single Limit Switch, General Purpose ⁽⁴⁾	S	Single Ex d Proximity Limit Switch ⁽⁴⁾	S9	Double Ex d Proximity Limit Switch ⁽⁴⁾	SS9	Pressure Gauge Assembly ⁽³⁾	6	S.S. Glycerin Pressure Gauge Assembly ⁽³⁾	6n	Monel Pressure Gauge Assembly ⁽³⁾	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	H2	Water Motor Alarm Assembly ⁽³⁾	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 ⁽³⁾	Q	Drain and Indicating Components	A	S.S. 316 Seat Ring	T
Option For Pressure Control Deluge valve	Code																																																																																																																																																																		
Differential Pressure Sensing	06																																																																																																																																																																		
Closing Speed control	01																																																																																																																																																																		
Opening Speed control	02																																																																																																																																																																		
Opening & Closing Speed control	03																																																																																																																																																																		
Installation/Pattern	Code																																																																																																																																																																		
Vertical	V																																																																																																																																																																		
Horizontal	H																																																																																																																																																																		
Oblique (700 only)	Y ⁽¹⁾																																																																																																																																																																		
Angle (700 only)	A ⁽¹⁾																																																																																																																																																																		
Body Material ⁽⁵⁾	Code																																																																																																																																																																		
Ductile Iron (Standard) ⁽⁶⁾	C																																																																																																																																																																		
Cast Steel ⁽⁶⁾	S																																																																																																																																																																		
Stainless Steel 316	N																																																																																																																																																																		
Nickel Al. Bronze	U																																																																																																																																																																		
End Connections	Code																																																																																																																																																																		
ANSI #150RF (Standard)	A5																																																																																																																																																																		
ANSI #150RF-SF ⁽⁷⁾	AM																																																																																																																																																																		
ANSI #150FF	a5																																																																																																																																																																		
ANSI #150FF-SF ⁽⁷⁾	aM																																																																																																																																																																		
ANSI #300RF	A3																																																																																																																																																																		
ANSI #300FF ⁽⁷⁾	a3																																																																																																																																																																		
ANSI #300FF-SF ⁽⁷⁾	aS																																																																																																																																																																		
ANSI #300RF-SF ⁽⁷⁾	AS																																																																																																																																																																		
ISO-PN16	16																																																																																																																																																																		
ISO-PN25 ⁽¹⁾	25																																																																																																																																																																		
Grooved ANSI C606 235 psi (16 bar) ⁽²⁾	VI																																																																																																																																																																		
Grooved ANSI C606 365 psi (25 bar) ⁽²⁾	V2																																																																																																																																																																		
Voltage - Main Valve Position (When Solenoid De-Energized)	Code																																																																																																																																																																		
24VDC - N.C. (Standard)	4DC																																																																																																																																																																		
24VDC - N.O.	4DO																																																																																																																																																																		
24VDC - Magna Latch	4DS																																																																																																																																																																		
110VDC - N.C.	5DC																																																																																																																																																																		
110VDC - N.O.	5DO																																																																																																																																																																		
110V/50-60 - N.C.	5AC																																																																																																																																																																		
110V/50-60 - N.O.	5AO																																																																																																																																																																		
220V/50-60 - N.C.	2AC																																																																																																																																																																		
220V/50-60 - N.O.	2AO																																																																																																																																																																		
Tubing & Fittings	Code																																																																																																																																																																		
Stainless Steel 316 (Standard)	NN																																																																																																																																																																		
Monel	MM																																																																																																																																																																		
Coating	Code																																																																																																																																																																		
Polyester Red (Standard) ⁽⁶⁾	PR																																																																																																																																																																		
High Build Epoxy Red RAL 3002 ⁽⁶⁾	ER																																																																																																																																																																		
Uncoated	UC																																																																																																																																																																		
Options	Code																																																																																																																																																																		
Pressure Switch, General Purpose ⁽³⁾	P																																																																																																																																																																		
Ex Proof Pressure Switch ⁽³⁾	P7																																																																																																																																																																		
Ex d ATEX Pressure Switch ⁽³⁾	P9																																																																																																																																																																		
Ex d Pressure Switch, Monel Sensor	P9m																																																																																																																																																																		
Ex d Pressure Switch, SS316 Enclosure	P9Jn																																																																																																																																																																		
Ex d Pressure Switch, SS316 Enclosure, Monel Sensor	P9mJn																																																																																																																																																																		
Single Limit Switch, General Purpose ⁽⁴⁾	S																																																																																																																																																																		
Single Ex d Proximity Limit Switch ⁽⁴⁾	S9																																																																																																																																																																		
Double Ex d Proximity Limit Switch ⁽⁴⁾	SS9																																																																																																																																																																		
Pressure Gauge Assembly ⁽³⁾	6																																																																																																																																																																		
S.S. Glycerin Pressure Gauge Assembly ⁽³⁾	6n																																																																																																																																																																		
Monel Pressure Gauge Assembly ⁽³⁾	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	H2																																																																																																																																																																		
Water Motor Alarm Assembly ⁽³⁾	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 ⁽³⁾	Q																																																																																																																																																																		
Drain and Indicating Components	A																																																																																																																																																																		
S.S. 316 Seat Ring	T																																																																																																																																																																		

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



