



FP 400Y TORRENT DELUGE VALVES

Bermad is proud to introduce the FP 400Y Torrent Deluge Valve. For years, Bermad's Fire Protection valves have been protecting numerous High Hazard On-shore and Off-shore facilities worldwide.

The FP 400 elastomeric globe valves are known for their reliable, long-lasting performance, their ease of installation, inspection and service and their advanced features that led these valves to be the default valve for our customers.

The FP 400Y Torrent Deluge Valve increases the operation envelope of the FP 400 family and takes the solutions provided by these valves a major step forward toward meeting the ever evolving technological market challenges and new international standards including ISO 6182, CEN and others.

While maintaining the FP 400's technological advantages and features, the Torrent Deluge Valve has an improved flow coefficient Kv, supports higher pressure classes and lets for even easier and quicker in-line service. The Torrent has improved the FP 400's unique position indicator by adapting it to the industrial quarter-turn standard, allowing the valve to Interface with any monitoring system while preserving its visual position indication. The Torrent is also equipped with a wide range of limit switches and state of the art accessories.

As a leading and ever-improving fire protection applications manufacturer, we are successfully protecting the most precious assets and resources of the High Hazard industry. In the past few decades our FP 400 deluge valves excelled in protecting facilities in the Oil & Gas, Power and Petrochemical industries all over the world

Our 9 global subsidiaries, operating in over 80 countries and 6 continents, play a key role in our customer's high satisfaction rate. With our long term experience, market presence, reliability and service we at Bermad Fire Protection attained our customers' trust and confidence where the success of the 400E valves contributed to this prestigious achievement.

For further information please check out www.bermad.com web site or contact your dealer or company representative.











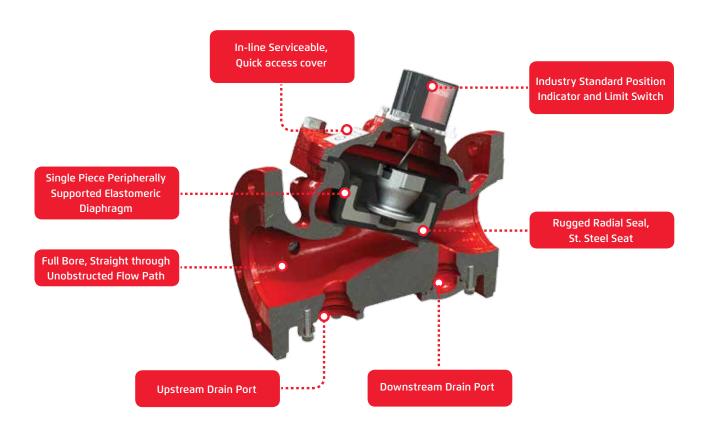












Features & Benefits

- Simple, time proven Fail Safe Open FP 400 design
- No mechanical moving parts High Reliability and Increased Safety
- Single Piece Molded Elastomeric Diaphragm Seal -No maintenance required
- Full Bore, Linear Flow, Unobstructed Flow path -High Capacity Flow and higher Kv
- Quick cover release, No trim dismantling needed Minimal down time
- In-Line serviceable Periodical Regulatory NFPA regulatory Inspection friendly
- Lay Length standardized according to ISO 5752/EN 558-1
- Complies with latest international standards including ISO 6182 CEN and others

Optional Accessories

- Industrial modular Visual Position Indicator
- Valve Position Single/Double Limit Switch (True Valve Position Indication)
- Alarm pressure switch
- Sea Water Service, Special Materials
- Drain Valves (Upstream & Downstream for easy system drainage)

Pressure Ratings

Valve Ends	Standard	Class	Max Working Pressure
valve cilus	Stanuaru	CldSS	psi
Standard Pressure	Flanged ASME/ANSI B16.5 / 16.42 / PN16	#150	235
High Pressure	Flanged ASME/ANSI B16.5 / 16.42 / PN25	#300	365

Flow Properties

Size	2"	3"	4"	6"	8"	10"	12"	14"	16"
Kv (Cv)	80 (92)	190 (219)	345 (398)	790 (912)	1160 (1340)	1355 (1565)	2370 (2737)	2850 (3292)	3254 (3758)



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BERMAD Hydraulically Controlled Deluge Valve with EasyLock Local Reset

FP-400Y-1M

The 400Y-1M is activated by a sudden flow and pressure drop in a fusible plug wet pilot line. Once open, the 400Y-1M latches open until locally reset. The 400Y-1M is ideal for systems with open nozzles for water or foam discharge.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

UL Listed: 1½" to 16"FM Approved: 1½" to 8"



BERMAD Electrically Controlled Deluge Valve with EasyLock Local Reset

FP-400Y-2M

The 400Y-2M is activated by a 2-Way solenoid valve. Once open, the 400Y-2M latches open until locally reset.

The 400Y-2M is ideal for systems with open nozzles for water or foam discharge and is available with electrical components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

UL Listed: 1½" to 16"FM Approved: 1½" to 8"



BERMAD Electrically Controlled Deluge Valve with Local Reset

The 400Y-3UM is activated by a 3-way solenoid valve, which actuates a latching relay valve, to open the main valve. Once open the main valve will not close until locally reset.

The 400Y-3UM is ideal for systems with open nozzles for water or foam discharge, available with electric components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

UL Listed: 1½" to 16"FM Approved: 1½" to 8"



*Pictures are for illustration only

FP-400Y-3UM





BERMAD Pneumatically Controlled Deluge Valve with Local Reset

The 400Y-4M is activated by a pneumatic relay valve which latches the main valve open until locally reset. The pneumatic control makes the 400Y-4M applicable for freezing environments and corrosive water supplies.

The 400Y-4M is suitable for systems with open nozzles for water or foam discharge.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16" ■ FM Approved: 1½" to 8"



BERMAD Hydraulically Controlled, Anti-Columning Deluge Valve with Local Reset

The 400Y-5M is activated by a pressure operated relay valve, which latches the main valve open until locally reset.

The 400Y-5M is ideal for systems with remote or elevated wet pilot lines, due to its boosted local pressure release.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

UL Listed: 1½" to 16"FM Approved: 1½" to 8"



BERMAD Electro-Pneumatically Controlled Deluge Valve with Local Reset

The 400Y-6M is activated by a 3-way solenoid valve which in turn activates a pneumatically dependant relay valve that latches the main valve open until locally reset.

The 400Y-6M is ideal in systems with open nozzles for water or foam discharge, and is available with electric components to suit any hazardous location. also suitable for systems with dual redundant detection.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16" ■ FM Approved: 1½" to 8" FP-400Y-6M

FP-400Y-5M







BERMAD Electrically Controlled

Deluge Valve with Remote Reset

FP-400Y-3U

The 400Y-3U is activated by a 3-way solenoid valve which in turn activates a 3 way relay valve to open the deluge valve.

It is available with a latching option that maintains the deluge valve open until de-latched remotely.

The 400Y-3U is ideal for systems with open nozzles for water or foam discharge and is offered with electric components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi ■ UL Listed: 1½" to 16"

■ FM Approved: 1½" to 8"



BERMAD Electro-Pneumatically Controlled

Deluge Valve with Remote Reset

FP-400Y-6U

The 400Y-6U is activated by a 3-way solenoid valve which in turn activates a 3 way pneumatic relay valve to open the deluge valve.

It is available with a latching option that maintains the deluge valve open until de-latched remotely.

The 400Y-6U is ideal for systems with open nozzles for water or foam discharge and is offered with electric components to suit any hazardous location.

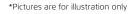
■ Sizes: 1½" to 16"

Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16" ■ FM Approved: 1½" to 8"









BERMAD Hydraulic Pressure Control

Deluge Valve with Local Reset

The 400Y-1MC is activated by a hydraulic relay valve which latches the deluge valve open until reset locally.

An integral pressure reducing pilot valve ensures a precise, preset and stable downstream system water pressure.

The 400Y-1MC is ideal for systems with open nozzles with a high pressure water supply for water or foam discharge.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi

12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



FP-400Y-1MC

IN CASE OF FIRE FOR YOUR APPEAR APPEA

BERMAD Electric Pressure Control

Deluge Valve with Local Reset

The 400Y-2MC is activated by a 3-Way solenoid valve, that actuates a latching relay valve opening the main valve. Once open, the valve will not close until locally reset. An integral pressure reducing pilot ensures a stable and precise preset downstream system water pressure.

The 400Y-2MC is ideal for open-nozzle systems with a high pressure water supply and is available with electric components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi

12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

FP-400Y-2MC



BERMAD Pneumatic Pressure Control

Deluge Valve with Local Reset

The 400Y-4DC-H is activated by a pneumatic relay valve which latches the main valve open until locally reset.

An integrated pressure reducing pilot valve ensures a stable and precise pre-set downstream water pressure.

The 400Y-4DC-H is ideal for open-nozzle systems with a high pressure water supply and/or relatively low flow.

The pneumatic control makes the 400Y-4DC-H suitable for freezing environments and corrosive water supplies.

■ Sizes: 1½" to 16"

Max Pressure Rating:

1½" to 10" - 25 bar/365 psi

12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

FP-400Y-4DC-H





Pressure Control Deluge Valve for Fire Water & Foam Solution with Local Resetting



BERMAD Electro-Pneumatic Pressure Control Deluge Valve with Local Reset

The 400Y-6DC-H is activated by a fall in pneumatic pressure caused either by the activation of a sprinkler in the dry pilot line or by an electric signal to the 3 way solenoid valve.

The 6DC-H can be activated remotely either pneumatically or electrically. Once open the 6DC-H latches in the open position, until locally reset.

When open an integrated pressure reducing pilot valve regulates the main valve to maintain a precise, stable, pre-set downstream pressure.

The 400Y-6DC-H is ideal for open-nozzle systems with a high pressure water supply. It is available with electrical components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



FP-400Y-6DC-H





BERMAD Electric Pressure Control On-Off Deluge Valve, 2-Way Solenoid Valve

The 400Y-2DC is activated by a 2-way solenoid valve by which opening and closing of the deluge valve may be controlled remotely.

An integrated pressure reducing pilot ensures a precise and stable pre-set downstream water pressure.

The 400Y-2DC is ideal for open-nozzle systems with a high pressure water supply and is available with electric components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

FP-400Y-2DC



BERMAD Electric Pressure Control On-Off Deluge Valve

The 400Y-3DC is activated by a 3-way solenoid valve by which opening and closing of the deluge valve may be controlled remotely.

An integrated pressure reducing pilot ensures a precise and stable pre-set downstream water pressure.

The 400Y-3DC is ideal for open-nozzle systems with a high pressure water supply and is available with electric components to suit any hazardous location

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

FP-400Y-3DC



BERMAD Pneumatic Pressure Control On-Off Deluge Valve

The 400Y-4DC is activated by a pneumatic relay valve. Opening and closing of the valve can be controlled remotely.

An integrated pressure reducing pilot valve ensures a stable and precise preset downstream water pressure.

The BERMAD 400Y-4DC is suitable for open-nozzle systems with a high pressure water supply. The pneumatic control makes it ideal for use in freezing environments and corrosive media.

■ Sizes: 1½" to 16"

Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

FP-400Y-4DC







BERMAD Hydraulic Pressure Control On-Off Deluge Valve

The 400Y-5DC is activated by a hydraulically operated relay valve, through which opening and closing of the valve can be controlled either with a remote hydraulic command or with a wet pilot line with closed fusible plugs.

An integral pressure reducing pilot valve ensures a precise, stable, pre-set downstream water pressure.

The 400Y-5DC is ideal for systems that combine a remote wet pilot line with a high pressure water supply.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



BERMAD Electro Pneumatic Pressure Control On-Off Deluge Valve

The 400Y 6DC is activated by a fall in pneumatic pressure of the pilot line or by an electric signal to a 3 way solenoid valve.

The 400Y 6DC can be activated remotely either pneumatically or electrically. When open an integrated pressure reducing pilot valve regulates the main valve to maintain a precise, stable, pre-set downstream pressure.

The 400Y-6DC is ideal for open-nozzle systems with a high pressure water supply. It is available with electrical components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



FP-400Y-6DC

BERMAD Hydraulically Operated Pressure Differential Control Valve (PDCV)

The 400Y-C-06 can be activated by means of an electric, hydraulic or pneumatic signal.

The 400Y-C-06 uses a unique differential sensing pilot to control the differential pressure between two chosen points, typically a foam proportioning pump.

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



*Pictures are for illustration only

FP-400Y-C-06





BERMAD Electrically Controlled On-Off Deluge Valve

FP-400Y-3D

The 400Y-3D is activated by a 3-way solenoid valve, suitable for electric fire detection systems.

The 400Y-3D is ideal for systems with open nozzles for water or foam discharge.

Available with electric components to suit any hazardous location.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



BERMAD Pneumatically Controlled On-Off Deluge Valve

FP-400Y-4D

The 400Y-4D is controlled by a pneumatic relay valve, typically activated by a decrease in pressure of a pneumatic pilot line.

The 400Y-4D can also be operated remotely. The Bermad 400Y 4D is ideal for use in systems with open nozzles for water or foam discharge also well suited for use with corrosive media or where freezing temperatures might be experienced.

■ Sizes: 1½" to 16"

Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



BERMAD Hydraulically Controlled On-Off Deluge Valve

FP-400Y-5D

The 400Y-5D is activated by a hydraulic relay valve, by which opening and closing of the valve can be controlled remotely.

The 400Y-5D is suited to systems with remote release wet pilot lines.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



*Pictures are for illustration only



On-Off Deluge Valve for Fire Water & Foam Solution



BERMAD Electro-Pneumatically Controlled On-Off Deluge Valve

FP-400Y-6D

The 400Y-6D is suitable for systems that include electric or redundant (electric or pneumatic) fire detection systems.

It opens in response to an electric signal and/ or a drop in pressure of a pneumatic pilot line.

The 400Y-6D is ideal for open-nozzle systems and is available with electrical components to suit any hazardous location.

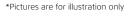
■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"







BERMAD Locally Operated Valves for Fire Water & Foam Solution



BERMAD Locally Operated Monitor Valve

FP-400Y-11

The 400Y-11 is activated manually by opening the local Manual Release Valve on the control trim.

The 400Y-11 is well suited for installation directly before high capacity water/foam monitors as a type approved quick opening water control valve.

The standard trim features the release valve positioned locally on the valve, optionally the release valve can be positioned remotely, enabling valve operation from a distance.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi



BERMAD Locally Operated Monitor/Deluge Valve

FP-400Y-1D

The 400Y-1D is activated manually by opening the local Manual Release Valve attached to the valve's control trim.

The 400Y-1D is ideal for use as a locally operated deluge valve for water spray or foam system nozzles.

It is also well suited for installation directly before high capacity water/foam monitors as a Listed/Approved quick opening water control valve.

As standard the release valve is positioned locally on the valve, optionally the release valve can be positioned remotely enabling valve operation from a distance.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"







BERMAD Single Interlock Pre-action System Electric Release

FP-400Y-7M

The Single Interlock Electric Release is suitable for use in systems requiring that water be kept out of the sprinkler piping until an electric detecting device is activated. Single Interlock Pre-Action Systems include automatic sprinklers attached to a dry sprinkler piping system, with a supplementary electric detection system installed in the same area. This system admits water into the sprinkler piping upon activation of the detection system. Water is discharged only through sprinklers that have been opened due to excessive heat.

When a Supervised System is required, a pneumatic low pressure supply shall be provided through a proper Air Maintenance Device (AMD-74 or 75), also an antiflooding feature is provided by utilizing an in-line check valve, which creates an intermediate vented chamber using a Normally Open drip-check.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

■ FM Approved: 1½" to 8" - 16 bar/235 psi



BERMAD Double Interlock Pre-action System Electric-Electric Release

FP-400Y-7BM

The Double Interlock Pre-Action is suitable for use in systems requiring that water be kept out of the sprinkler piping until an electric detecting device and a sprinkler have both been activated. Electric-Electric double interlock systems include automatic sprinklers attached to a dry sprinkler piping system with a low air pressure switch, along with a supplementary electric detection system which are both wired to a Cross-Zone releasing control panel.

Model FP 400Y-7BM Pre-Action System admits water into the sprinkler piping only when both the detection device and the supervised systems simultaneously signal the control panel to trigger the solenoid valve. An anti-flooding feature is provided by using an in-line check valve, which creates an intermediate vented chamber using a Normally Open drip-check.

■ Sizes: 1½" to 16"

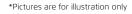
Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

■ FM Approved: 1½" to 8" - 16 bar/235 psi









FP-400Y-7DM

BERMAD Double Interlock Pre-action System Electric-Pneumatic Release

The 400Y-7DM admits water into the sprinkler system piping only when both the electric detection device and the pneumatic supervised systems are simultaneously activated.

An anti-flooding feature is provided by using an in-line check valve, which creates an intermediate vented chamber using a Normally Open drip check.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"

■ FM Approved: 1½" to 8" - 16 bar/235 psi

BERMAD Dry Pipe Sprinkler Valve

The BERMAD model 400Y-DP utilizes an elastomeric deluge valve, designed specifically for advanced fire protection systems and the latest industry standards.

Dry-pipe systems include automatic sprinklers attached to pressurized dry sprinkler piping with supplementary electric monitoring and a Supervised Pneumatic system installed in the same area.

The 400Y-DP admits water into the sprinkler system piping when there is a drop in pressure in the piping due to the opening of one or more fusible head sprinklers.

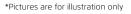
■ Sizes: 1½" to 10"

■ Max Pressure Rating: 25 bar/365 psi

UL Listed: 1½" to 10"FM Approved: 1½" to 8"



FP-400Y-DP





Concentrate Remote Control Valve - Stainless Stee

BERMAD Zero Pressure Application Foam



The BERMAD Zero pressure foam concentrate control valves are all stainless steel, hydraulically operated double chambered valves and can use existing firewater pressure to fully open or close. This makes their operation independent of the foam concentrate pressure, enabling functionality at very low pressure or even non-pressurized foam concentrate.

They have an over the seat design giving them drip tight sealing and an inherent "fail safe close" characteristic.

These valves can share the opening command of a main deluge valve, whether electric, hydraulic or pneumatic. This ensures a perfect synchronization of the opening of the foam concentrate valve with the opening of the deluge valve and admission of firewater into the system.

These valves replace mechanically operated valves to provide safer operation for modern foam systems, assuring maximum reliability.

BERMAD Zero Pressure, Solenoid Activated, Remote Control Foam Concentrate Valve

The BERMAD FC 700E-3X-BO is a Double Chambered hydraulically powered foam-concentrate valve, controlled electrically by a solenoid valve.

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 28 bar/400 psi

FC-700E-3X-BO-N

BERMAD Zero Pressure, Pneumatically Controlled Remote Control, Foam Concentrate Valve

The BERMAD FC 700E-4X-BO is a Double Chambered hydraulically operated Foam- concentrate valve, controlled by a 3-Way pneumatic relay valve.

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 28 bar/400 psi



FC-700E-4X-BO-N

BERMAD Zero Pressure, Hydraulically Operated, Remote Control Foam Concentrate Valve

The BERMAD FC 700E-5X-BO is a Double Chambered hydraulically powered Foam-concentrate valve, controlled by a 3-Way hydraulic relay valve.

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 28 bar/400 psi



Zero Pressure, Electro-Pneumatically Operated Remote Control, BERMAD Foam Concentrate Valve

The BERMAD FC 700E-6X-BO is a Double Chambered hydraulically operated foam-concentrate valve, is controlled electro-pneumatically using a solenoid valve to command a pneumatic relay valve

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 28 bar/400 psi









BERMAD Electrically Operated, Remote Control Foam Concentrate Valve

The FC-400Y-3U-N is of all stainless steel construction.

It is activated electrically by a 3-way solenoid valve to open a 3-Way relay valve that opens the main valve.

Suited for foam concentrate control, local or remote.

- Sizes: 1½" to 4"
- Max Pressure Rating: 25 bar/365 psi
- UL Listed
- FM Approved

BERMAD Pneumatically Operated, Remote Control Foam Concentrate Valve

The FC-400Y-4U-N is of all stainless steel construction

It is activated by by a pneumatic command to a 3-Way relay valve that opens the main valve.

Suited for foam concentrate control, local or remote.

- Sizes: 1½" to 4"
- Max Pressure Rating: 25 bar/365 psi
- UL Listed

BERMAD Hydraulically Operated, Remote Control Foam Concentrate Valve

The FC-400Y-5U-N is of all stainless steel construction

It is activated by by a hydraulic command to a 3-Way relay valve that opens the main valve.

Suited for foam concentrate control with local or remote command.

- Sizes: 1½" to 4"
- Max Pressure Rating: 25 bar/365 psi
- UL Listed

BERMAD Electro-Pneumatically Operated, Remote Control Foam Concentrate Valve

The FC-400Y-6U-N is of all stainless steel construction.

It is activated by an electric command to a 3-Way solenoid that vents the relay valve control chamber to open the main valve. which in turn activates a 3-way relay valve to open the main valve

Suited for foam concentrate control with local or remote command.

- Sizes: 1½" to 4"
- Max Pressure Rating: 25 bar/365 psi
- UL Listed
- FM Approved





FC-400Y-4U-N



FC-400Y-5U-N



FC-400Y-6U-N



*Pictures are for illustration only





BERMAD Electric Pressure Control, Foam Concentrate Valve

The BERMAD FC-400Y-3DC-N, is all of all stainless steel construction. An integrated pressure reducing pilot ensures a precise and stable pre-set downstream water pressure.

It is activated by a 3-way solenoid valve by which opening and closing of the valve may be controlled remotely.

When fitted with the differential sensing option (BERMAD code 06) this valve is ideal for differential pressure control in proportional foam systems.

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 25 bar/365 psi

UL Listed

BERMAD Pneumatic Pressure Control, Foam Concentrate Valve

The BERMAD FC-400Y-4DC-N is off all stainless steel construction. An integrated pressure reducing pilot ensures a precise and stable pre-set downstream water pressure.

It is activated by a pneumatic relay valve, by which opening and closing of the valve can be controlled remotely.

When fitted with the differential sensing option (BERMAD code 06) this valve is ideal for differential pressure control in proportional foam systems.

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 25 bar/365 psi

UL Listed

BERMAD Hydraulic Pressure Control, Foam Concentrate Valve

The BERMAD FC-400Y-5DC-N is off all stainless steel construction. An integrated pressure reducing pilot ensures a precise and stable pre-set downstream water pressure.

It is activated by a hydraulic relay valve, by which opening and closing of the valve can be controlled remotely.

When fitted with the differential sensing option (BERMAD code 06) this valve is ideal for differential pressure control in proportional foam systems.

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 25 bar/365 psi

BERMAD Electro-Pneumatic Control, Foam Concentrate Valve

The BERMAD FC-400Y-6DC-N is of all stainless steel construction. An integrated pressure reducing pilot ensures a precise and stable pre-set downstream water pressure

It is activated by an electro/pneumatic relay valve, by which opening and closing of the valve can be controlled remotely.

When fitted with the differential sensing option (BERMAD code 06) this valve is ideal for differential pressure control in proportional foam systems.

■ Sizes: 1½" to 4"

■ Max Pressure Rating: 25 bar/365 psi

UL Listed

FC-400Y-3DC-N



FC-400Y-4DC-N



FC-400Y-5DC-N



FC-400Y-6DC-N



*Pictures are for illustration only



BERMAD Pressure Reducing Valve

FP-42T

The 42T reduces high upstream pressure to a precise, preset, stable downstream pressure. Due to its exceptional reliability and low head loss the 42T is ideal for control of fire pump discharge and well-suited to prevent over pressure in sprinklers, hose stations, and other discharge devices.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

UL Listed: 1½" to 16"FM Approved: 1½" to 10"



BERMAD Fire Pump Control and Check Valve

FP-42T-20

The BERMAD model 42T-20 is an elastomeric, hydraulically operated, self actuated Non Return Fire Pump Pressure Control Valve, designed for advanced fire protection systems meeting the NFPA-20 guidelines.

The 42T-20 is used for controlling the flow and pressure at the pump discharge, performing also as a non return check valve.

The 42T-20 prevents pump startup surge, typically caused by the accelerated water flow during the fire pump starts.

The valve also helps to prevent pump start negative suction pressure, preventing pump cavitation damage.

Due to exceptional reliability, safe actuation and low head loss, the 42T-20 is highly suited for fire pump discharge pressure control applications.

■ Sizes: 1½" to 16"

Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



BERMAD Pressure Differential Reducing Control Valve

FP-42T-06

The BERMAD model 42T-06 is an elastomeric hydraulic line pressure driven differential reducing valve, specifically designed for advanced fire protection systems and the latest industry standards.

The 42T-06 is equipped with an adjustable differential pilot valve and is used to maintain a set pressure differential between two different points.

When the differential between the two sensed pressures approaches the pre-set maximum the pilot valve starts to close the main valve regulating the pressure and preventing the differential from rising further.

The 42T-06 is ideal for balanced foam proportioning systems, also as a safeguard for dosing pump flow overload.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi

12" to 16" - 20 bar/300 psi





BERMAD Pressure Control Valve for Fire Water & Foam Solution



BERMAD Hydraulically Operated Pressure Differential Control Valve (PDCV)

FP-400Y-C-06

The 400Y-C-06 can be activated by means of an electric, hydraulic or pneumatic signal.

The 400Y-C-06 uses a unique differential sensing pilot to control the differential pressure between two chosen points, typically a foam proportioning pump.

■ Sizes: 1½" to 16"

■ Max Pressure Rating:

1½" to 10" - 25 bar/365 psi 12" to 16" - 20 bar/300 psi

■ UL Listed: 1½" to 16"



BERMAD Pressure Reducing Valve

FP-720-UL

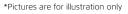
The Model FP 720-UL Pressure Reducing Valve reduces high, unstable upstream pressure to maintain precise stable downstream pressure, regardless of changing upstream pressure or flow, and requires only existing line pressure to operate.

■ Sizes: 1½" to 16"

■ Max Pressure Rating: 28 bar/400 psi ■ **UL Listed:** 2" to 6" - 21 bar/300 psi

8" - 12 bar/175 psi







BERMAD Pressure Control Valve for Fire Water & Foam Solution



BERMAD Pressure Relief Valve

FP-43T

The 43T prevents damage from over-pressure in piping systems, maintaining a preset upstream pressure limit regardless of pressure peaks and fluctuating conditions. Due to exceptional reliability and low head loss, it is ideal for relief of fire pump discharge. The 43T dependably relieves excess system pressure to sump or atmosphere, meeting all NFPA, UL, and FM requirements for fire pump service. The 43T is also well-suited for maintaining foam concentrate discharge pressure for a balanced proportioning system.

■ Sizes: 1½" to 16"

■ UL Listed: 1½" to 10" - 365 psi (25 bar) ■ FM Approved: 1½" to 8" - 25 bar/365 psi 10" - 21 bar/300 psi



BERMAD Fire Pump Suction Pressure Control Valve

FP-43T-PS

The 43T-PS is used to control and sustain pump suction pressure at the pump inlet at an adjustable preset minimum value. This ensures a continued pressure supply to systems sharing the same supply line as well as preventing cavitation damage. Due to exceptional reliability, fail safe opening, fast reaction and low head loss, the 43T-PS is highly suited for fire pump discharge pressure control applications.

■ Sizes: 1½" to 16"

■ **FM Approved**: 1½" to 8" - 25 bar/365 psi 10" - 21 bar/300 psi



BERMAD Pressure Relief Valve

FP-730-UF

The BERMAD Model FP 730-UF pilot operated relief valve prevents overpressure, maintaining a constant preset system pressure regardless of fluctuating conditions.

It is UL-Listed (up to 350 psi) and FM-Approved in accordance with NFPA-20.

The valve offers reliable performance when installed in: Refineries, petrochemical complexes, tank farms, high-rise buildings, aviation and airports, marine and on-shore installations.

■ Sizes: 1½" to 16"

Max Pressure Rating: 24 bar/350 psi
 UL Listed: 2" to 6" - 24 bar/350 psi
 8" - 12 bar/175 psi

■ FM Approved: 2" to 8" - 14 bar/200 psi





BERMAD Pressure Control Valve for Fire Water & Foam Solution



BERMAD Direct Acting Pressure Relief Valve ¾", FM Approved

The BERMAD model FP- 3HC-0 is a direct acting, spring loaded, diaphragm type, relief valve.

The single port is held closed buy the force of the adjustable spring located above the pressure sensing diaphragm.

When the force of the pressure sensed under the diaphragm exceeds the force of the spring the valve will open to relieve pressure and will close tight when pressure falls below the pre-set value.

This FM approved valve is well suited for use in protecting wet pipe systems from overpressure that occurs from temperature fluctuations and for fire pump casing relief as required by the NFPA 20 and NFPA 13 standards.

- Max Pressure Rating: 25 bar/365 psi
- FM Approved
- UL Listed

FP-3HC-0



BERMAD Sprinkler Pressure Relief Valve ½"(M) inlet/¼" outlet, FM Approved

The BERMAD model FP-3PB-0 is a direct acting, spring loaded, diaphragm type relief valve.

The single port is held closed buy the force of the adjustable spring located above the pressure sensing diaphragm.

When the force of the pressure sensed under the diaphragm exceeds the force of the spring the valve will open to relieve pressure and will close tight when pressure falls below the pre-set value.

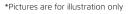
This FM approved valve is well suited for use in protecting wet pipe Systems, pilot lines and Fusible sprinkler lines from overpressure occurring from temperature fluctuations, pump start up spikes and other excess pressure events.

■ Max Pressure Rating: 25 bar/365 psi

■ FM Approved: 25 bar/365 psi



FP-3PB-0





BERMAD Pressure Control Valve for Fire Water & Foam Solution



BERMAD Anti-Surge Pump Start Control Valve

The BERMAD 730-48-BL is a Normally Open, Anti Surge, pilot-operated and diaphragm-actuated control valve.

It has a double-chambered actuator for positive and reliable actuation with an external lift spring, giving the valve it's normally open characteristic.

This affords the BERMAD 730-48-BL a zero reaction time, pre-empting and dissipating any pressure surge or excess air at pump start up.

Once the surge has passed and system piping pressure has normalized the 730-48-BL will close and will continue duty as a relief valve, relieving pressure spikes when needed, keeping the system pressure at its designed level.

The 730-48-BL is an autonomous valve operating under line pressure alone requiring no external power source.

■ Sizes: 1½" to 16"

■ Max Pressure Rating: 25 bar/365 psi

FP-730-48-BL



FP-43T-06

BERMAD Differential Pressure Sustaining Valve

The BERMAD model 43T-06 is an elastomeric hydraulic line pressure operated differential sustaining valve,

specifically designed for advanced fire protection systems and the latest industry standards.

The 43T-06 is equipped with an adjustable differential pilot valve and is used to sustain the differential between two different points.

When the differential between the two sensed pressures rises above the preset value the pilot valve opens the main valve regulating the pressure and keeping the differential at the pre-set maximum.

The 43T-06 is ideal for balanced foam proportioning systems, also as a safeguard for dosing pump excessive flow.

■ Sizes: 1½" to 16"

■ Max Pressure Rating: 25 bar/365 psi

BERMAD Pressure Relief Valve with Electric Override

The BERMAD model FP 43T-59 is an elastomeric hydraulic line pressure operated relief valve, combining pressure relief with a pre-opening feature.

The 43T-59 Pressure Relief Valve prevents damage from overpressure in piping systems, ensuring a maximum preset upstream pressure limit regardless of pressure peaks and fluctuating conditions.

The 43T-59 includes a pre-opening feature, whereby full opening of the valve can be achieved by an electric command. This function may be used to relieve and guell anticipated surge such as might occur during pump start-up.

After the anticipated surge has passed, electric signal termination returns the valve to normal pressure relief duty..

■ Sizes: 1½" to 16"

■ Max Pressure Rating: 25 bar/365 psi









BERMAD Level Control Valve with Altitude Pilot

The BERMAD FP 450-82 Level Control Valve is a hydraulically controlled, diaphragm actuated automatic control valve that shuts at pre-set high reservoir level and opens in response to level drop, keeping the reservoir full.

The water level is maintained by the use of a highly accurate pilot valve that precisely senses the water level head from a sensing point at the bottom of the reservoir and controls the main filling valve accordingly.

This eliminates the need for the installation of a float mechanism, making it ideal for high level reservoirs.

■ Sizes: 1½" to 14"

■ Max Pressure Rating: 16 bar/235 psi



BERMAD Level Control Valve with Modulating Horizontal Float

The Model FP 450-60 Level Control Valve with Modulating Horizontal Float is a hydraulically controlled, diaphragm actuated, control valve that controls reservoir filling to maintain constant water level, regardless of fluctuating demand.

■ Sizes: 1½" to 14"

■ Max Pressure Rating: 16 bar/235 psi

FP-450-60

BERMAD Level Control Valve with Bi-Level Electric Float

- -Very low supply pressure
- -Low noise generation
- -Energy cost critical systems
- -Systems with poor water quality

The Model FP 450-65 Level Control Valve with Bi-Level Electric Float is a hydraulically operated, diaphragm actuated, control valve that controls reservoir filling in response to an electric float switch signal.

The valve fully opens at a pre-set low level and closes at a pre-set high level.

■ Sizes: 1½" to 14"

■ Max Pressure Rating: 16 bar/235 psi



BERMAD Level Control Valve with Bi-Level Vertical Float

Reservoir filling

- -Very low supply pressure
- -Low noise generation
- -Energy cost critical systems
- -Systems with poor water quality

The Model FP 450-66 Level Control Valve with Bi-Level Vertical Float is a hydraulically controlled, diaphragm actuated control valve that controls reservoir filling in response to a hydraulic on/off float pressure command.

The Valve opens at pre-set low level and closes at a pre-set high level.

■ Sizes: 1½" to 14"

■ Max Pressure Rating: : 16 bar/235 psi

Note: The 450-67 is for reservoir "always full" application



FP-450-66/67





Fire Line Strainers



BERMAD Basket Strainer, ANSI #150RF, UL Listed 200 psi

FP-60F-01

The BERMAD FP- 60F Basket Strainers are designed to be installed in fire protection pipelines primarily to prevent the clogging of fire system nozzles of automatic sprinklers, deluge spray or foam systems.

The FP-60F strainers are also well suited for use upstream of BERMAD Pressure Control Valves and Deluge valves as well as other pipeline debris sensitive Fire System Devices. The ratio of the FP-60F strainer's basket area to its inlet pipe area is larger than 10:1, ensures continued system performance even in the most debrisridden firewater. The high capacity of the FP-60F also results in a lower pressure drop and enables longer intervals between cleaning and servicing. The BERMAD FP-60F is designed for in-line maintenance with easy access, requiring only the top cover removal for basket screen cleaning or without removing the main strainer housing body from the pipeline.

■ **Sizes**: 3" to 24"

■ Max Pressure Rating: 14 bar/200 psi

■ UL Listed: 3" to 12"



BERMAD Basket Strainer with In-Line Flushing Outlet (Plugged)

FP-60F-01-D

The BERMAD FP-60F-01-D is designed for in-line maintenance available with a large diameter flushing outlet for immediate and easy screen cleaning. In addition easy in-line access to the basket screen is enabled, requiring only the cover removal. The FP-60F-01-D strainers are also well suited for use upstream of Pressure Control Valves and Deluge valves as well as other debris sensitive Fire System Devices.

■ Sizes: 3" to 12"

■ Max Pressure Rating: 17.2 bar/250 psi

■ **UL Listed**: 3" to 12"



BERMAD Basket Strainer with In-Line Flushing Valve FP-60F-01-DV

ANSI #150RF, UL Listed 250 psi

The BERMAD FP-60F-01-DV is designed for in-line maintenance available with a large diameter flushing outlet and drain valve for immediate and easy screen cleaning. In addition easy in-line access to the basket screen is enabled, requiring only the cover removal. The FP-60F-01-DV strainers are also well suited for use upstream of Pressure Control Valves and Deluge valves as well as other debris sensitive Fire System Devices.

■ Sizes: 3" to 12"

■ Max Pressure Rating: 17.2 bar/250 psi

■ UL Listed: 3" to 12"



Notes for BERMAD Strainers:

(1) Ductile Iron Body ER Epoxy (RAL 3002) FB Coated

(2) Stainless Steel 316 Screen

(3) Bolts & Nuts: Stainless Steel 304



Fire Line Strainers



BERMAD Y-Strainer

FP-70F

The BERMAD FP-70F Strainer is designed to remove foreign matter such as stones, sticks, etc, from the pipeline.

It is recommended to install the strainer upstream from control valves, flow meters and other system appliances.

■ Sizes: 1½" to 18"

■ Max Pressure Rating: 25 bar/365 psi







400Y-3D

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

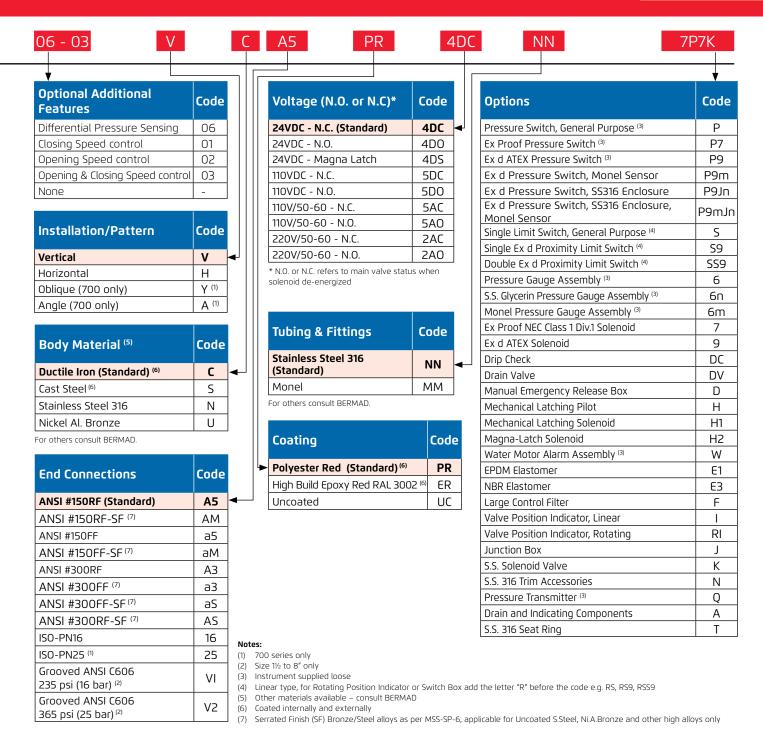
Valve Size				
40 mm				
50 mm				
80 mm				
100 mm				
150 mm				
200 mm				
250 mm				
300 mm				
350 mm				
400 mm				

N	ot	e	s:

- UL Listed for sizes 1½" 16"
- FM Approved for sizes 1½", 2", 3", 4", 6" & 8" When provided with full trim (code "A" in Options)
 UL Listed: 1½" - 10"
 FM Approved: 1½" - 10"
- (3)
- Add Elevation code after the model: "00" - for elevation below 10m/33ft "M6" - for Max elevation 35m/115ft "M7" - for Max elevation 70m/230ft
- 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 The model 450-66 is Bi-Level type.
- The 450-67 is for reservoir "always full" application
- Add "BL" suffix to the valve code
- (9) UL Listed for sizes 2", 2\%", 3", 4", 6" & 8" Refer to the catalog sheets for pressure ratings (10) FM Approved for sizes 2", 2\%", 3", 4", 6" & 8"
- Refer to the catalog sheets for pressure ratings

BERMAD Standard Configuration

		+
Group	Description	Model
Classic Deluge with Local Reset	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	Electrically Controlled Deluge Valve	400Y-3U
Remote Reset	Electro Pneumatically Controlled Deluge Valve	400Y-6U
	Hydraulically Controlled	400Y-1MC
Pressure Control Deluge with	Electrically Controlled	400Y-2MC
Local Reset (1)	Pneumatically Controlled	400Y-4DC-H
	Electro Pneumatically Controlled	400Y-6DC-H
	Electrically Controlled On-Off, 2-way Solenoid Valve	400Y-2DC
D 6 1 1	Electrically Controlled On-Off	400Y-3DC
Pressure Control Deluge On-Off (1)	Pneumatically Controlled On-Off	400Y-4DC
belage on on	Hydraulically Controlled On-Off	400Y-5DC
	Electro-Pneumatically Controlled On-Off	400Y-6DC
	Electrically Controlled	400Y-3D
On-Off	Electro-Pneumatically Controlled	400Y-6D
Deluge (1)	Pneumatically Controlled	400Y-4D
	Hydraulically Controlled	400Y-5D
	Electrically Controlled	400Y-3U-N
Foam Concentrate	Electro Pneumatically Controlled	400Y-6U-N
Remote control (1)	Pneumatically Controlled	400Y-4U-N
	Hydraulically Controlled	400Y-5U-N
Foam	Electrically Controlled	400Y-3DC-N
Concentrate	Electro Pneumatically Controlled	400Y-6DC-N
Pressure	Pneumatically Controlled	400Y-4DC-N
Control (1)	Hydraulically Controlled	400Y-5DC-N
_	Electrically Controlled	700E-3X-BO-N
Foam Concentrate	Electro Pneumatically Controlled	700E-6X-BO-N
Zero Pressure	Pneumatically Controlled	700E-4X-BO-N
	Hydraulically Controlled	700E-5X-BO-N
Locally Operated	Locally Controlled Monitor/Deluge Valve	400Y-11
cocally operated	Monitor/Deluge Valve (1)	400Y-1D
D 4 1	Single Interlock Electric Release Pre-Action System	400Y-7M
Pre-Action &	Double Interlock Electric-Electric Release Pre-Action System	400Y-7BM
Dry Pipe (1), (2)	Double Interlock Electric-Pneumatic Release Pre-Action System	400Y-7DM
	Dry Pipe Valve	400Y-DP
	Pressure Reducing Valve (1), (4)	42T
	Pressure Control & Non-Return Valve (1)	42T-20
	Pressure Reducing Valve (9)	720-UL
Pressure Control Valves	Pressure Relief Valve (3), (4)	43T
		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
	Altitude Pilot ⁽⁶⁾	450-82
Level Control	Modulating Horizontal Float	450-60
	Bi-Level Electrical Float	450-65
	Vertical Float (7)	450-66/67



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)	TEX000003		
AMD-76, Air Maintenance Device Regulated By-Pass Pressure Supply (standard materials)	TEX000009		
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





UNDERWRITERS LABORATORIES

Deluge Type (VLFT)
Special System Water Control Valves
Pressure Reducing Type (VLMT)
Double Interlock Type (VLJH)



FACTORY MUTUAL

Pressure Relief Valves
Process Control Valves
Pressure Reducing Valves
Dry Pipe Valves
Deluge Sprinkler Systems
Preaction Sprinkler Systems



DET NORSKE VERITAS

Marine and Offshore Type Approval Blast Proof Certification

Refrigerated area Sprinkler Systems



VDS SCHADENVERHUETUNG

German Standard and European Certification for Fire Protection Deluge Valves



LLOYD'S REGISTER

Marine and Offshore Type Approval



AMERICAN BUREAU OF SHIPPING

Marine and Offshore Type Approval Blast Proof Certification



GOST, RUSSIA

Compliant with the Russian Federation Standard GOST R 51052-2002 inc Seismic Resistance



NATIONAL FIRE PROTECTION ASSOCIATION

Compliant with codes:

NFPA 11 Low, medium and high Expansion Foam NFPA 13 Installation of Sprinkler Systems

NFPA 15 Water Spray Fixed Systems NFPA 16 Deluge Foam-Water Systems

NFPA 20 Installation of Stationary Pumps for Fire

Protection

NFPA 24 Private Fire Service Mains

NFPA 25 Water-Based Fire Protection Systems



BERMAD Standard International Warranty

BERMAD manufactured products are guaranteed to be free from defect in material and/or workmanship and to perform as advertised when properly installed, used and maintained in accordance with current instructions, written or verbal.

Should any item prove defective within the period set forth for that item, but in any case not later than within 12 (twelve) months from the time that product left BERMAD's premises, and shall be received by BERMAD or its authorized representative, or written notice thereof from the purchaser within 30 days of discovery of such failure – BERMAD will repair or replace any item proven defective in workmanship or material, or will refund the purchase price, at its sole option.

BERMAD will not be responsible for, nor does this warranty extend to, any consequential or incidental damages or expenses of any kind or nature, of any kind, regardless of the nature thereof, including without limitation injury to persons or property, loss of use of the products, loss of goodwill, loss of profits, or any other contingent liabilities of any kind or character alleged to be the cause of loss or damage to the purchaser.

This warranty does not cover damage or failure caused by misuse, abuse or negligence, nor shall it apply to our products upon which repairs or alternations have been made by other than an authorized BERMAD representative.

This warranty does not extend to components, parts or raw materials used by BERMAD but manufactured by others, which shall be covered only to the extent warranted by the manufacturer's warranty.

There are no warranties, express or implied, except this warranty, which is given in lieu of any other warranties, express or implied, including any implied warranty of fitness for a particular purpose.





Find us at:

Website

http://www.bermad.com/products/fire-protection

Linked in

https://www.linkedin.com/company/bermad-fire-protection?trk=biz-brand-tree-co-name



https://www.youtube.com/playlist?list=PLIWTNrSBR43hLwhuBJqxddtQ4wCgfA-_9

