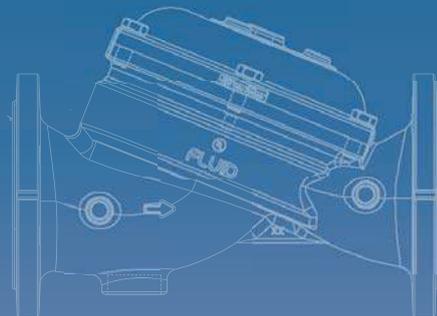
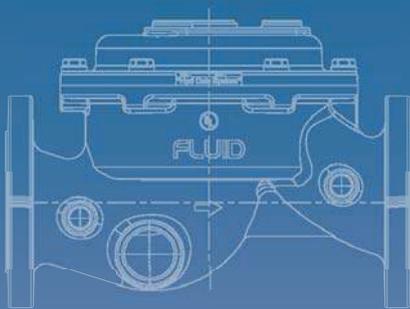


FLUID PUMPS & EQUIPMENT INDIA PVT. LTD.

## FIRE PROTECTION



## DELUGE VALVES & WATER MOTOR ALARM GONG



## Model FX

### Deluge Valves (DN40 - DN80)

#### Model FX-E/EM

Electrically Actuated Deluge Valve  
Auto Reset/Manual Reset

#### Model FX-H/HM

Hydraulically Actuated Deluge Valve  
Pilot Controlled  
Auto Reset/Manual Reset

#### Model FX-P/PM

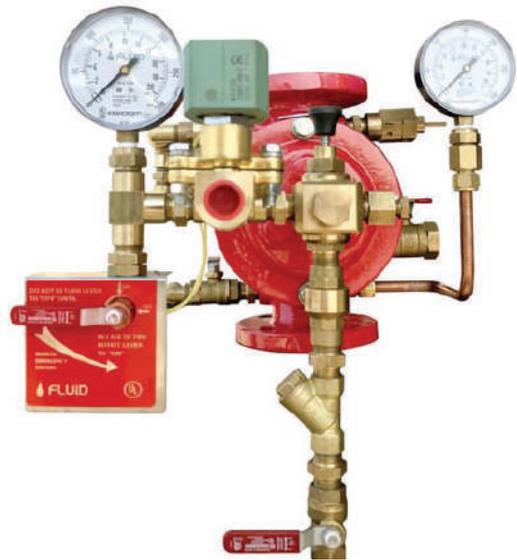
Pneumatically Actuated Deluge Valve  
Auto Reset/Manual Reset

#### Model FX-PE/PEM

Electrically and Pneumatically Actuated Deluge Valve  
Pre-action double interlock System

#### Model FX-HR/ER

Flow Regulating Deluge Valve  
Constant lower preset, downstream pressure

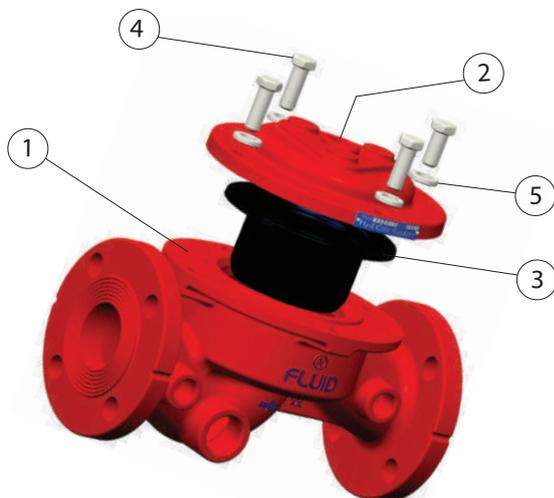


### Applications

- Deluge & Dry Pipe Systems
- Foam Systems
- Single or double Interlock Pre-Action
- Fresh Water, Sea water, Foam solution or Foam concentrate
- Offshore platforms and helidecks
- Ni Al Br body deluge valve available for corrosive environments
- Remote controlled valves

### Operation

The FLUID® Model FX is a quick opening differential diaphragm deluge valve with one moving part. The valve is held closed by the system water pressure in priming chamber, there by rendering the system piping dry. During fire or test conditions, when the releasing system operates pressure is released from the priming chamber allowing the valve to open and to start the flow of water.

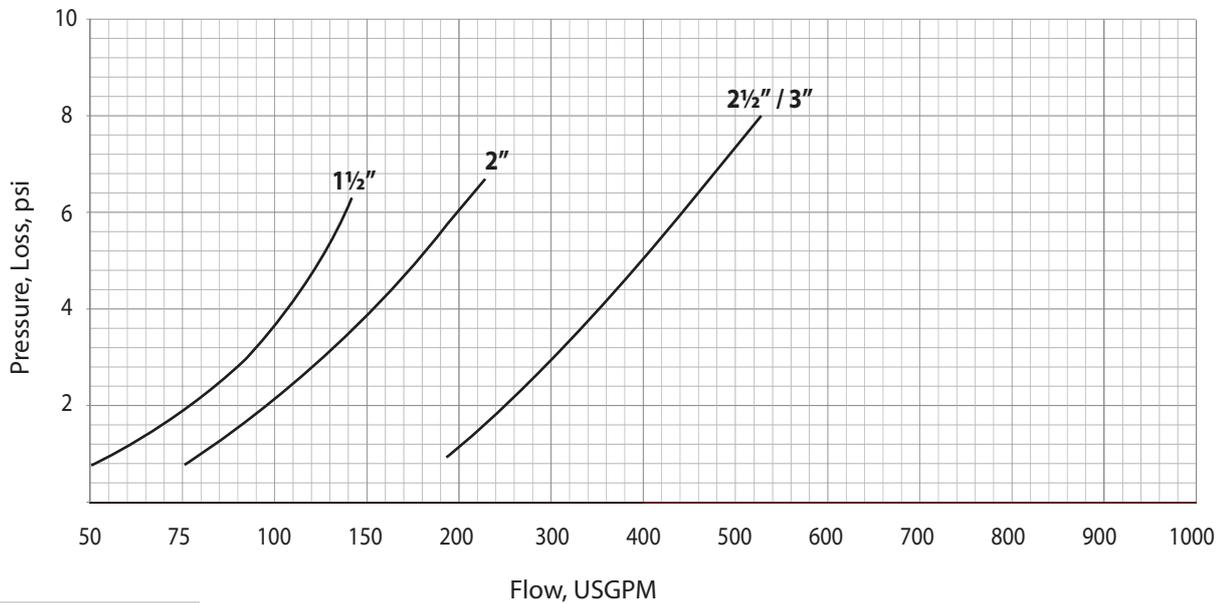


### Features

- UL Listed - EX26775
- N.M.M.P. - No Mechanical Moving Parts with Self supporting diaphragm
- Simple structure - valve is maintenance free
- Automatic reset - optional manual reset
- Copper trim tubing and brass fittings optional
- Maximum working pressure up to 250 psi ( 17.25 bar)
- Factory assembled trim package
- Compatible with hydraulic, electric and pneumatic release
- Electrical trim with 2-way Solenoid Valve
- Optional Items: Pressure Switch, Water motor alarm gong
- External manual reset, without opening the valve
- Can be used in vertical or horizontal position

| Serial No. | Description |
|------------|-------------|
| 1          | Body        |
| 2          | Bonnet      |
| 3          | Diaphragm   |
| 4          | Bolts       |
| 5          | Washers     |

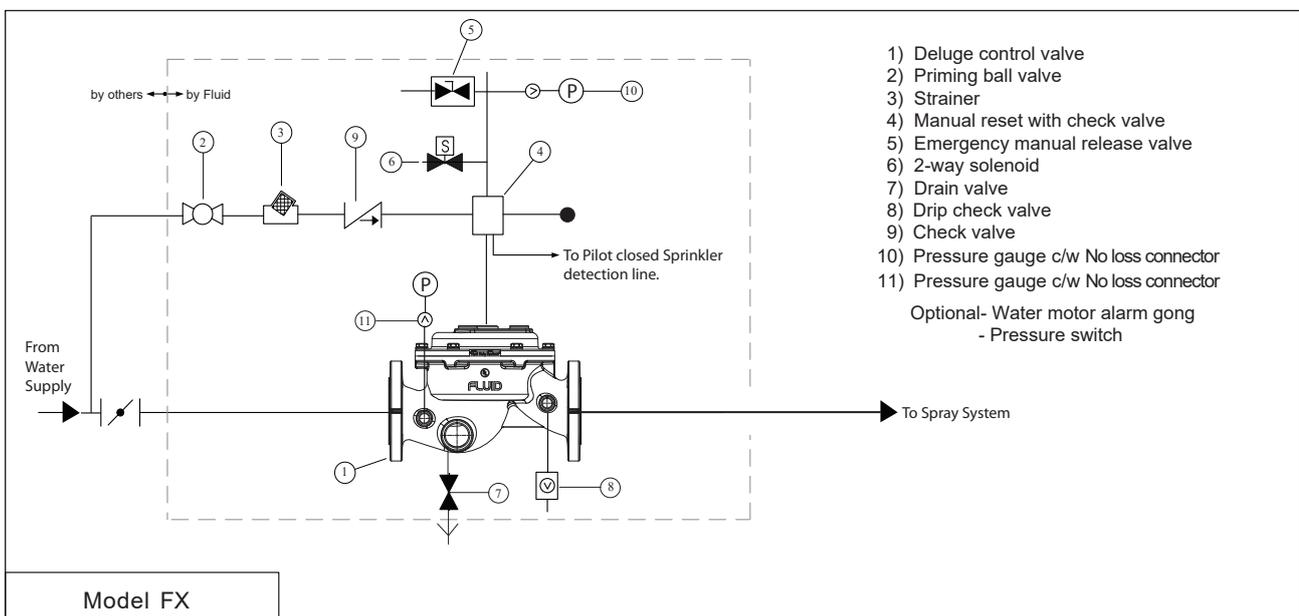
### Friction Loss Chart



### Specifications

- The Deluge valves are UL Listed, diaphragm sealing globe pattern valve with proven reliable design.
- The valves have an unobstructed flow path with no stem guide or supporting ribs. Valve actuation shall be accomplished by a fully peripherally supported, one-piece flexible diaphragm. The diaphragm assembly shall be the only moving part.
- The valves have a removable cover for quick in-line service, enabling all necessary inspection and servicing.
- The control trim materials shall consist of GI / Copper tubing, brass valves & accessories including 2-way solenoid valve for electrical trim only, strainer and emergency manual release.
- The trim kit shall be supplied loose in box or pre-assembled and hydraulically tested at factory.

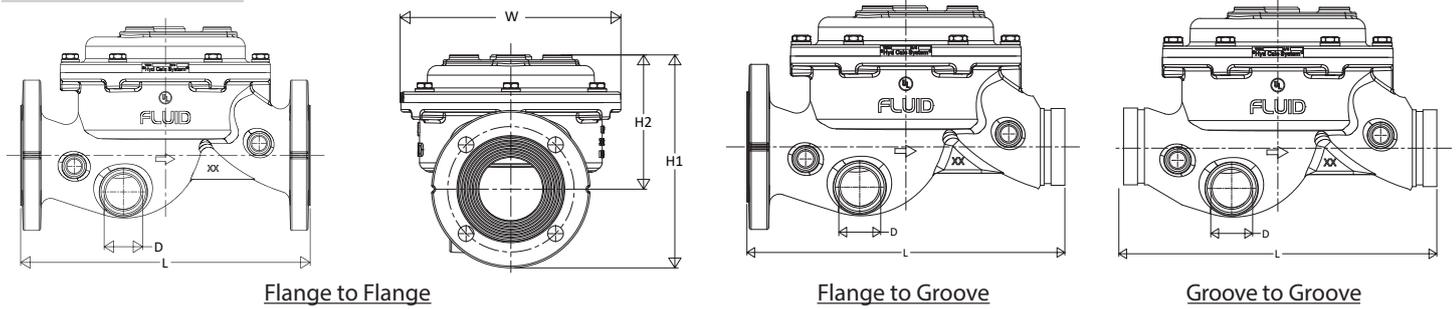
### Control Scheme- Electrically Operated Deluge Valve (Manual Reset Type)



# Deluge Valves

## Model FX

### Technical Data



| Nominal Size<br>mm / in | Cover Bolt |     | Drain Thread Size<br>D | Dimensions |             |             |            | Weight (Kgs /Lbs) |       |       |
|-------------------------|------------|-----|------------------------|------------|-------------|-------------|------------|-------------------|-------|-------|
|                         | Size       | Qty |                        | L<br>mm/in | H1<br>mm/in | H2<br>mm/in | W<br>mm/in | F/F               | F/G   | G/G   |
| 40                      | M12        | 3   | ¾" NPT                 | 256.0      | 148.2       | 88.8        | 159.3      | -                 | -     | 6.66  |
| 1½                      | M12        | 3   | ¾" NPT                 | 10.1       | 5.8         | 3.5         | 6.3        | -                 | -     | 14.68 |
| 50                      | M12        | 4   | 1" NPT                 | 281.0      | 182.0       | 107.0       | 192.0      | 14.40             | 12.23 | 10.06 |
| 2                       | M12        | 4   | 1" NPT                 | 11.06      | 7.16        | 4.21        | 7.56       | 31.75             | 26.96 | 22.18 |
| 65                      | M12        | 6   | 1½" NPT                | 353.0      | 256.5       | 164.0       | 268.0      | 30.50             | -     | -     |
| 2½                      | M12        | 6   | 1½" NPT                | 13.9       | 10.1        | 6.46        | 10.55      | 67.24             | -     | -     |
| 80                      | M12        | 6   | 1½" NPT                | 362.0      | 259.0       | 164.0       | 268.0      | 32.25             | 28.50 | 24.47 |
| 3                       | M12        | 6   | 1½" NPT                | 14.25      | 10.2        | 6.46        | 10.55      | 71.1              | 62.8  | 53.95 |

Note: Dimensions for the trim envelope may vary with specific component positioning.

### Connections:

- Standard: Flanged, ANSI/ASME B16.42 class 150, Flat Face
- Optional: Grooved, ANSI C606

### Water Temperature:

- -5°C to 80°C (180°F)

### Available Size:

- 1½", 2", 2½"\* & 3"
- \*2½" is only available in flanged BS4504 PN16

### Pressure Rating:

- Up to 250 psi (17.25 bar)

### Manufacturers Standard Material

#### Main valve body and cover:

- Ductile Iron ASTM A536

#### Control Trim System:

- GI pipe & fittings with brass accessories

#### Elastomers:

- Neoprene

#### Coating:

- Epoxy painted to RAL 3001

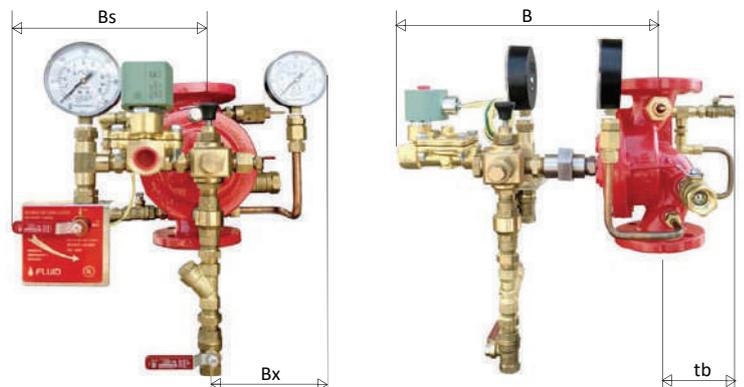
### Optional Material

#### Main valve body:

- Cast Steel ASTM A216 WCB
- Stainless Steel CF8M
- Ni-Al-Bronze ASTM B148

#### Control Trim:

- Stainless Steel
- Copper with brass accessories



| Nominal Size<br>mm / in | Dimensions |             |             |             |
|-------------------------|------------|-------------|-------------|-------------|
|                         | B<br>mm/in | tb<br>mm/in | Bs<br>mm/in | Bx<br>mm/in |
| 40                      | 260        | 200         | 245         | 250         |
| 1½                      | 10.20      | 7.87        | 9.64        | 9.84        |
| 50                      | 275        | 200         | 245         | 250         |
| 2                       | 10.80      | 7.87        | 9.64        | 9.84        |
| 65                      | 335        | 200         | 245         | 250         |
| 2½                      | 13.19      | 7.87        | 9.64        | 9.84        |
| 80                      | 335        | 200         | 245         | 250         |
| 3                       | 13.19      | 7.87        | 9.64        | 9.84        |

#### Note:

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#### FACTORY (IND)

7/222, Nagamannaickenpalayam  
Pattanam, Coimbatore - 641016  
Tamil Nadu, India

#### FOUNDRY (IND)

Gas Company Road  
Idikarai, Coimbatore - 641022  
Tamil Nadu, India

#### WAREHOUSE (UAE)

Plot: 599-2285  
Jebel Ali Industrial Area-1  
Dubai, UAE

## Model FX

### Deluge Valves (DN100 - DN250)

#### Model FX-E/EM

Electrically Actuated Deluge Valve  
Auto Reset/Manual Reset

#### Model FX-H/HM

Hydraulically Actuated Deluge Valve  
Pilot Controlled  
Auto Reset/Manual Reset

#### Model FX-P/PM

Pneumatically Actuated Deluge Valve  
Auto Reset/Manual Reset

#### Model FX-PE/PEM

Electrically and Pneumatically Actuated Deluge Valve  
Pre-action double interlock System

#### Model FX-HR/ER

Flow Regulating Deluge Valve  
Constant lower preset, downstream pressure

### Applications

- Deluge & Dry Pipe Systems
- Foam Systems
- Single or double Interlock Pre-Action
- Fresh Water, Sea water, Foam solution or Foam concentrate
- Offshore platforms and helidecks
- Ni Al Br body deluge valve available for corrosive environments
- Remote controlled valves

### Operation

The FLUID® Model FX is a Y-type quick opening differential diaphragm deluge valve. The valve is held closed by the system water pressure in priming chamber, thereby rendering the system piping dry. During fire or test conditions, when the releasing system operates pressure is released from the priming chamber allowing the valve to open and to start the flow of water.

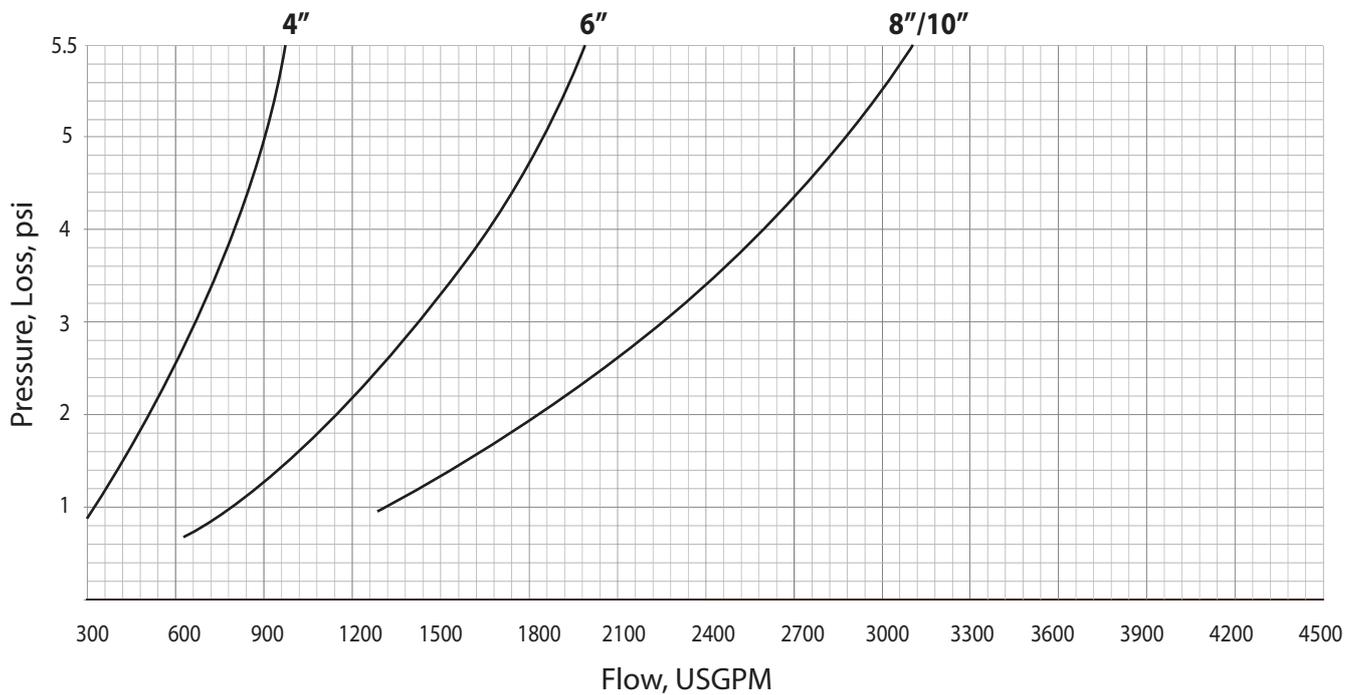


### Features

- UL Listed - EX26775
- N.M.M.P - No Mechanical Moving Parts with Self supporting diaphragm
- Simple structure - valve is maintenance free
- Automatic reset - optional manual reset
- Copper trim tubing and brass fittings optional
- Maximum working pressure up to 250 psi (17.25 bar)
- Factory assembled trim package
- Compatible with hydraulic, electric and pneumatic release
- Electrical trim with 2-way Solenoid Valve
- Optional Items: Pressure Switch, Water motor alarm gong
- External manual reset, without opening the valve
- Can be used in vertical or horizontal position

| Serial No. | Description |
|------------|-------------|
| 1          | Body        |
| 2          | Bonnet      |
| 3          | Diaphragm   |
| 4          | Bolts       |
| 5          | Washers     |

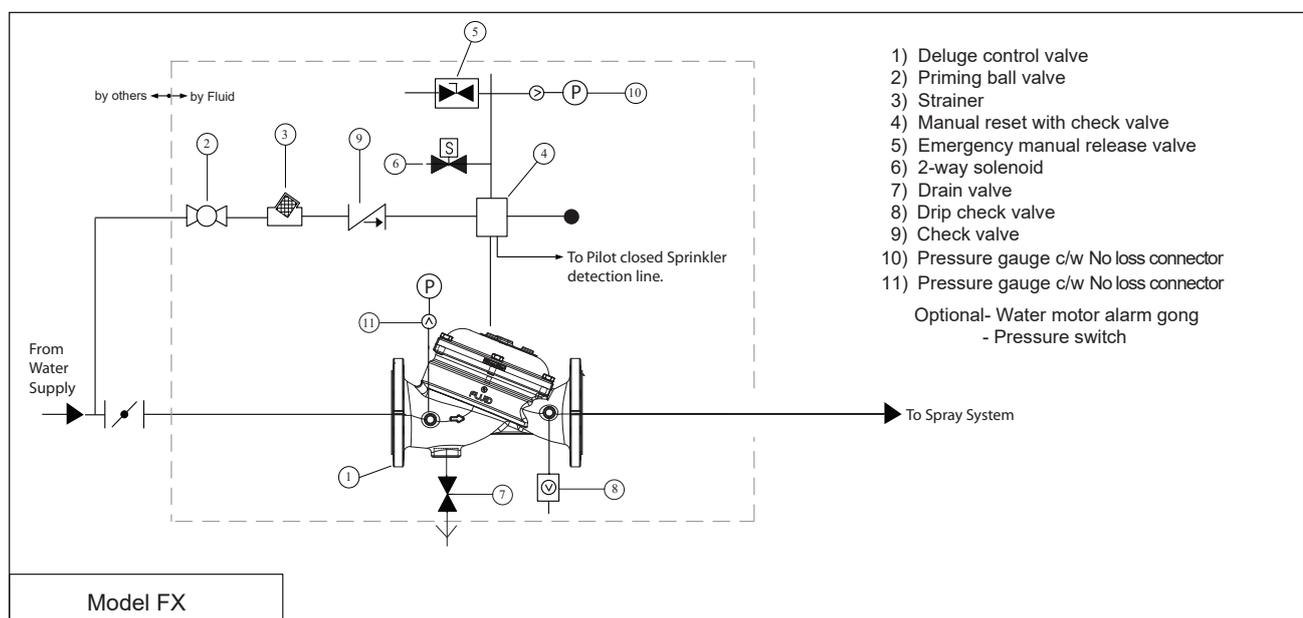
### Friction Loss Chart



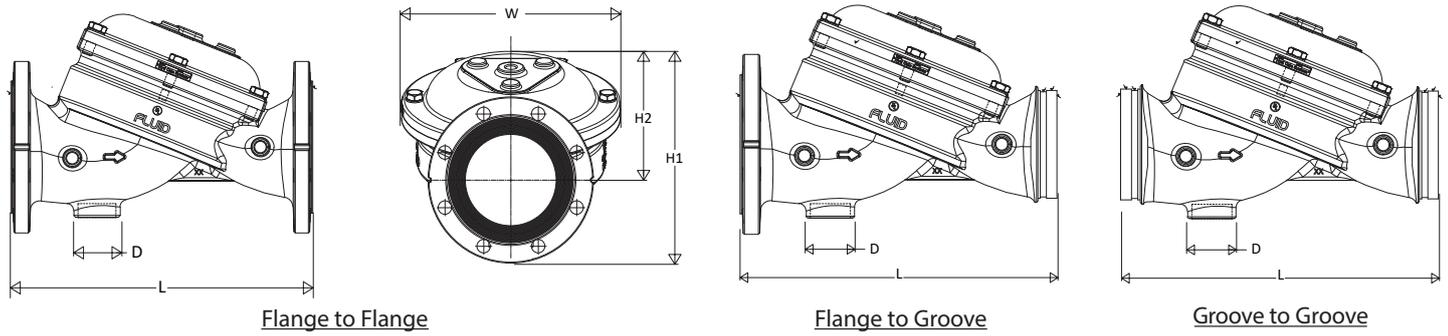
### Specifications

- The Deluge valves are UL Listed, diaphragm sealing Globe Pattern valve with proven reliable design.
- The valves have an unobstructed flow path with no stem guide or supporting ribs. Valve actuation shall be accomplished by a fully peripherally supported, one-piece flexible diaphragm. The diaphragm assembly shall be the only moving part.
- The valves have a removable cover for quick in-line service, enabling all necessary inspection and servicing.
- The control trim materials shall consist of GI / Copper tubing, brass valves & accessories including 2-way solenoid valve for electrical trim only, strainer and emergency manual release.
- The trim kit shall be supplied loose in box or pre-assembled and hydraulically tested at factory.

### Control Scheme- Electrically Operated Deluge Valve (Manual Reset Type)



### Technical Data



| Nominal Size<br>mm / in | Cover Bolt |     | Drain Thread Size<br>D | Dimensions |             |             |            | Weight (Kgs /Lbs) |        |        |
|-------------------------|------------|-----|------------------------|------------|-------------|-------------|------------|-------------------|--------|--------|
|                         | Size       | Qty |                        | L<br>mm/in | H1<br>mm/in | H2<br>mm/in | W<br>mm/in | F/F               | F/G    | G/G    |
| 100                     | M16        | 6   | 2" NPT                 | 382.0      | 304.0       | 188.0       | 306.0      | 40.60             | 35.60  | 30.60  |
| 4                       | M16        | 6   | 2" NPT                 | 15.04      | 11.97       | 7.40        | 12.04      | 89.50             | 78.48  | 67.46  |
| 150                     | M16        | 6   | 2" NPT                 | 480.0      | 362.0       | 220.0       | 373.0      | 63.40             | 56.30  | 49.2   |
| 6                       | M16        | 6   | 2" NPT                 | 18.90      | 14.25       | 8.66        | 14.68      | 139.80            | 124.10 | 108.47 |
| 200                     | M20        | 8   | 2" NPT                 | 580.0      | 449.5       | 277.0       | 440.0      | 106.80            | 94.30  | 82.0   |
| 8                       | M20        | 8   | 2" NPT                 | 22.83      | 17.70       | 10.90       | 17.32      | 235.45            | 209.7  | 180.8  |
| 250                     | M20        | 8   | 2" NPT                 | 580.0      | 480.0       | 277.0       | 440.0      | 123.0             | -      | -      |
| 10                      | M20        | 8   | 2" NPT                 | 22.83      | 18.90       | 10.90       | 17.32      | 271.17            | -      | -      |

Note: Dimensions for the trim envelope may vary with specific component positioning.

### Connections:

- Standard: Flanged, ANSI/ASME B16.42 class 150, Flat Face
- Optional: Grooved, ANSI C606

### Water Temperature:

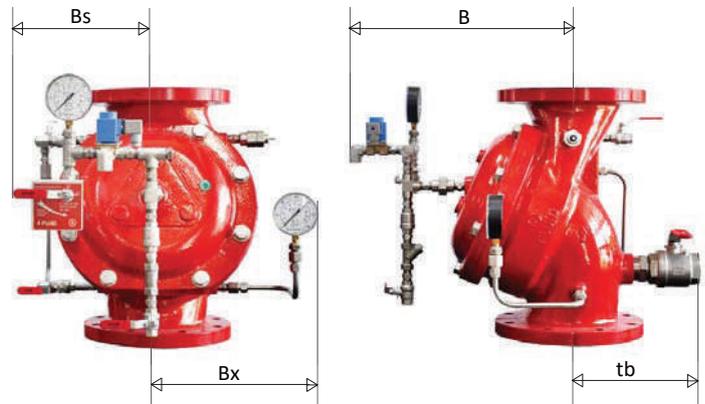
- -5°C to 80°C (180°F)

### Available Size:

- 4", 6", 8" & 10"

### Pressure Rating:

- Up to 250 psi (17.25 bar)



### Manufacturers Standard Material

#### Main valve body and cover:

- Ductile Iron ASTM A536

#### Control Trim System:

- GI pipe & fittings with brass accessories

#### Elastomers:

- Neoprene

#### Coating:

- Epoxy Painted to RAL 3001

### Optional Material

#### Main valve body:

- Cast Steel ASTM A216 WC8
- Stainless Steel CF8M
- Ni-Al-Bronze ASTM B148

#### Control Trim:

- Stainless Steel
- Copper with brass accessories

| Nominal Size<br>mm / in | Dimensions |             |             |             |
|-------------------------|------------|-------------|-------------|-------------|
|                         | B<br>mm/in | tb<br>mm/in | Bs<br>mm/in | Bx<br>mm/in |
| 100                     | 360        | 225         | 242         | 240         |
| 4                       | 14.17      | 8.86        | 9.53        | 9.45        |
| 150                     | 385        | 195         | 242         | 290         |
| 6                       | 15.16      | 7.68        | 9.53        | 11.42       |
| 200                     | 435        | 195         | 242         | 290         |
| 8                       | 17.12      | 7.68        | 9.53        | 11.42       |
| 250                     | 435        | 275         | 242         | 290         |
| 10                      | 17.12      | 10.82       | 9.53        | 11.42       |

**Note:**

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#### FACTORY (IND)

7/222, Nagamaickenpalayam  
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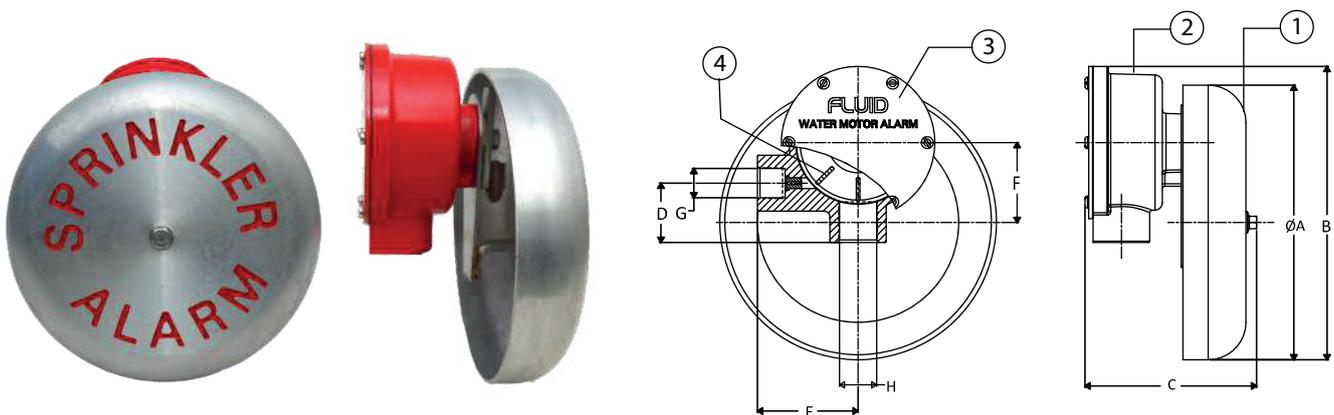
#### WAREHOUSE (UAE)

Plot: 599-2285  
Jebel Ali Industrial Area-1  
Dubai, UAE

## Model 250

### Water Motor Alarm Gong

- FLUID® water motor alarm gong is a mechanical device hydraulically operated by a flow of water. It can be used with Deluge valves & Sprinkler Alarm valves for Fire Protection Service.
- FLUID® water motor gong is normally mounted outside the building or near the valve station and energized by water flowing from the system valve, it is designed to sound automatically a continuous piercing alarm when the sprinkler or spray system operates in the event of fire.
- Compact, light weight, Non corrosive construction, No Lubrication, Easy for installation.
- Rated working pressure: 250 psi.
- Operates at very low pressures of 15 psi.
- Strainer shall be installed on the alarm line to protect the water motor alarm gong from clogging.
- Connection: Screwed Connection 3/4" NPT on the inlet and 1" NPT on the drain outlet.
- Extended wall mounting provision is available as optional.
- Finish: Polished.



#### Material Specification

| Part No. | Part Name | Description |
|----------|-----------|-------------|
| 1        | Gong      | Aluminium   |
| 2        | Housing   | Aluminium   |
| 3        | Cover     | Aluminium   |
| 4        | Impeller  | Delrine     |

#### Dimensions

| Dimensions (mm / inch) |      |       |      |      |      |        |        | Weight<br>Kgs / Lbs |
|------------------------|------|-------|------|------|------|--------|--------|---------------------|
| A                      | B    | C     | D    | E    | F    | G      | H      |                     |
| 220                    | 235  | 136.4 | 47.5 | 80   | 64   | ¾" NPT | 1" NPT | 1.9                 |
| 8.66                   | 9.25 | 5.37  | 1.87 | 3.15 | 2.52 | ¾" NPT | 1" NPT | 4.19                |

Note: Design and Materials are subject to change without notice.

# Confirmation Letter



**UL CUSTOMER** FLUID PUMPS & EQUIPMENT INDIA PVT LTD  
7/222 Nagamanaickenpalayam Pattanam  
Coimbatore, Tamil Nadu 641016 India

**UL CUSTOMER FILE #** EX26775

**CATEGORY** Special System Water Control Valves, Deluge Type | VLFT

May 17, 2022

As of the above date, UL LLC confirms that FLUID PUMPS & EQUIPMENT INDIA PVT LTD is the party associated with UL File # EX26775 that appears in the UL Product iQ platform. Public information contained in UL File # EX26775 can be viewed using the following link:

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If you have questions regarding this letter, please contact the UL Customer Experience Center at [cec@ul.com](mailto:cec@ul.com).

Sincerely,

Leadership & Governance Team  
UL Product iQ



# VLFT.EX26775 - Special System Water Control Valves, Deluge Type

## Special System Water Control Valves, Deluge Type

**FLUID PUMPS & EQUIPMENT INDIA PVT LTD**

7/222 Nagamanaickenpalayam Pattanam  
Coimbatore, Tamil Nadu 641016 India

EX26775

**Deluge type valves**, Model FX, 1-1/2, 2, 2-1/2, 3, 4, 6, 8 and 10 in. size in. sizes deluge valves for horizontal or vertical installations for pressure not exceeding 250 psig. For operation by, dry pilot, wet pilot, electric or manual activation Height of pilot line above valve limited as shown in the Installation Instructions. For accessories used with these valves, see listing under "Accessories for Special Systems".

Authorities having jurisdiction should be consulted before installation.

Trademark and/or Tradename: "FLUID",



Last Updated on 2021-09-09

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# Confirmation Letter



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7/222 Nagamanaickenpalayam Pattanam  
Coimbatore, Tamil Nadu 641016 India

**UL CUSTOMER FILE #** EX27192  
**CATEGORY** Valves, Alarm | VPLX

May 17, 2022

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If you have questions regarding this letter, please contact the UL Customer Experience Center at [cec@ul.com](mailto:cec@ul.com).

Sincerely,

Leadership & Governance Team  
UL Product iQ