

## Deluge valve set Type FSX

Safe for certain.

# MINIMAX

### Product

- ▶ Where the danger of rapid spreading fires exists, the Minimax deluge valve set controls the extinguishing system. In the event of a fire, the downstream pipework will be flooded and the water discharged via the open nozzles.

Simultaneously, an acoustic alarm is set off by means of a water motor alarm and an electric alarm is transmitted to a permanently manned location (e.g. fire brigade). The deluge valve set can be activated either electrically, pneumatically or hydraulically. An additional manual release is also provided.

### Range of application

- ▶ Deluge valve sets are used in water spray and fine water spray extinguishing systems with open nozzles.

Typical fields of application for water spray and fine water spray extinguishing systems are:

- Protection of machinery
- Transformer stations
- Tank system cooling
- Cable ducts
- Recycling systems
- Painting systems
- Theatre stages

### Your advantages

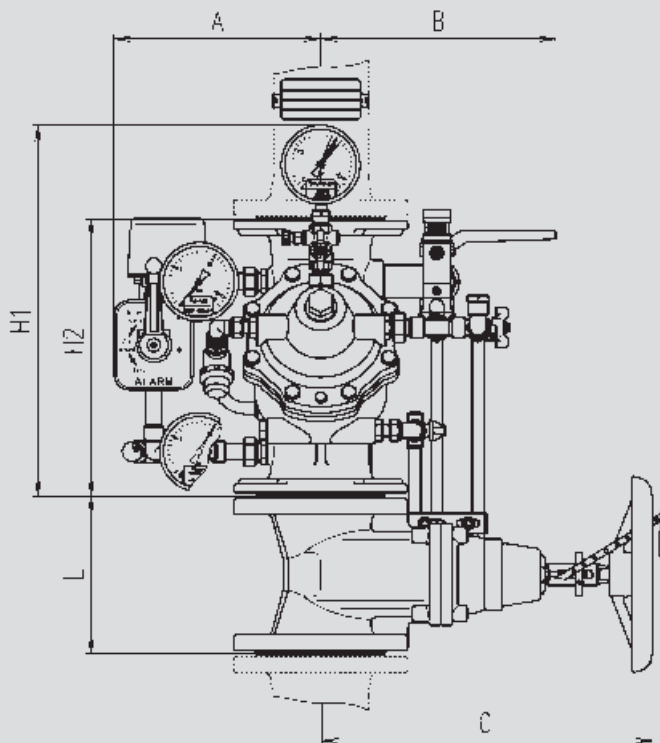
- ▶ Pre-assembled trimming guarantees fast installation
- ▶ Low weight
- ▶ Compact design reduces the space required
- ▶ Corrosion-resistant internal parts
- ▶ High permissible operating pressure: 16 bar
- ▶ Deluge valve also available with supervision
- ▶ Reduced pressure loss
- ▶ No water hammer due to a cushioned closing action
- ▶ Suitable for high flow rates
- ▶ Functional and pressure tests of the valve conducted by the manufacturer
- ▶ Remote panel for the manual control of the deluge valve set with electric release available

## Deluge valve set with electric activation

### Dimensions

	DN 50	DN 80	DN 100	DN 150
A	235	250	260	290
B	225	270	285	385
C	305	375	425	540
H1	420	455	470	572
H2	280	310	350	480
L	150	180	190	210
Distance* to front of valve back of valve	185	250	250	350
	185	235	235	325

\* from pipe center



### ► Hydraulic activation

As far as the hydraulic activation is concerned, the pilot line is directly connected to the control chamber of the deluge valve. The system pressure of the water supply is permanently applied to the pilot line. Should a pilot sprinkler release, the pressure in the control chamber drops and the deluge valve opens.

### ► Pneumatic activation

The pneumatic activation of the deluge valve is accomplished via a pilot line filled with compressed air and equipped with sprinklers or special heat sensors. In order to avoid a nuisance activation, the pilot line operating pressure is maintained by means of an automatic compressed air replenishment system. A diaphragm valve is positioned between the pneumatic pilot line and the control chamber of the deluge valve. If one of the sprinklers or heat sensors release, the pressure in the pilot line drops and opens the diaphragm valve. This causes a pressure release in the deluge valve control chamber, the valve opens and water flows into the nozzle pipe array.

The deluge valve set with pneumatic activation is particularly suitable for areas exposed to frost.

### ► Electric activation

The electric activation of the deluge valve set is accomplished by means of a detection system, which triggers the solenoid valve in the event of fire. The solenoid valve opens, the pressure in the deluge valve control chamber drops and the nozzle pipework will be flooded. Simultaneously, an acoustic alarm by means of water motor alarm is released and the electric alarm transmitted to a permanently manned location.

- In addition, Minimax offers an external panel that enables the manual activation of the Minimax deluge valve set from a remote location.

It can be used for the following tasks:

- Activation of the extinguishing process
- Minimizing the water damage by allowing a prompt interruption of the water supply
- Easy and repeated re-activation if required
- Re-commissioning of the deluge valve set which guarantees continuous protection

## Technical data

Nominal diameter	Maximum permissible pressure	Connection	Medium	Ambient temperature	Alarm	Activation
DN 50 DN 80 DN 100 DN 150	PS 16	Flange DIN 2501	Water	Max. 60 °C	Pressure switch with potential-free contacts 1 NO contact 1 NC contact	hydraulic, pneumatic, electric, additionally manual

Subject to technical alterations.

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