

Serie F.1400

ELECTRIC OPERATED DELUGE VALVE

F.1400



Electrically activated deluge valves F.1400 which are used for fire protection lines, open with an electric signal from a controller or a control board. Electrically activated deluge valves are used in fire protection lines with gas / smoke detectors and open nozzles / sprinklers. A 3 way solenoid valve on the deluge valve activates a relay pilot valve on the deluge valve. The relay pilot valve opens the deluge valve quickly and then the deluge valve lets water or foam concentration which is ready, flow to open nozzles / sprinklers. When the electric signal end, the deluge valve close tightly.

YES: for fire fighting system

Application fields



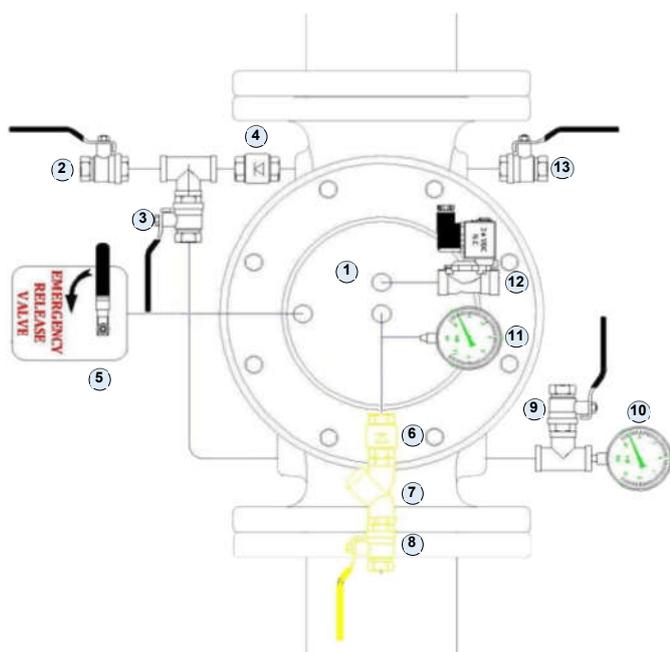
INDUSTRY



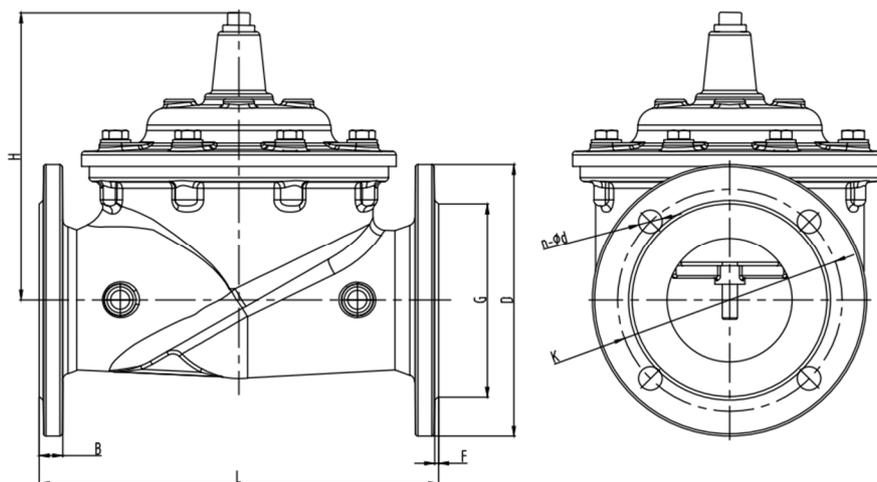
FIRE FIGHTING



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Component	
1	Main Deluge Valve (Ductile Iron)
2	Motor Gong Alarm Valve – Position: Optional
3	Test Alarm Valve – Position: Closed
4	Check valve
5	Emergency Release Valve – Position: Closed
6	Check valve
7	Y Strainer
8	Priming Ball Valve (It should be connected to the main line) – Position: Opened
9	Upstream Release Valve – Position: Closed
10	Upstream Pressure Gauge
11	Downstream Pressure Gauge
12	2 way Solenoid Valve (24 VDC)
13	Downstream Release Valve – Position: Closed



Dimensions (mm)

DN	80	100	125	150	200	250	300
L	310	350	350	480	600	730	850
D	200	220	250	285	340	405	460
K	160	180	210	240	295	355	410
G	132	156	184	211	266	319	370
n-d	8-Ø19	8-Ø19	8-Ø19	8-Ø23	12-Ø23	12-Ø28	12-Ø28
B	19	19	19	19	20	22	24.5
F	3	3	3	3	3	3	4
H	215	220	220	335	415	500	550

Certificates



Standards

Design : TS EN 12259-2
 Flange Dimensions : EN 1092-2
 Face to Face Dimensions : TS EN 5153
 Tests : TS EN 12266-1
 Nominal Pressure: PN16
 Temperature: +4 ~ 70°C

Instruction and Recommendations

STORING

Keep in dry and closed place.

GENERAL DESCRIPTION

Electric operated Deluge valve model F.1400 is a weir-type hydraulic valve, activated automatically or manually.

The valve is mounted on the upstream side of a fire-extinguishing sprinkler system, preventing flow into the system at its "Ready" position.

RECOMMENDATIONS

It is most important to ensure a clean water supply free of debris and solid particles such as sand, gravel, or mud.

All deposits should be removed from all operating parts and ports.

Where difficulty in performance is experienced, the manufacturer or his authorized representative shall be contacted if any field adjustment is to be made

OPERATING PRINCIPLES

The valve opens instantly when an electric signal, by means of continuous current, is applied to a solenoid valve.

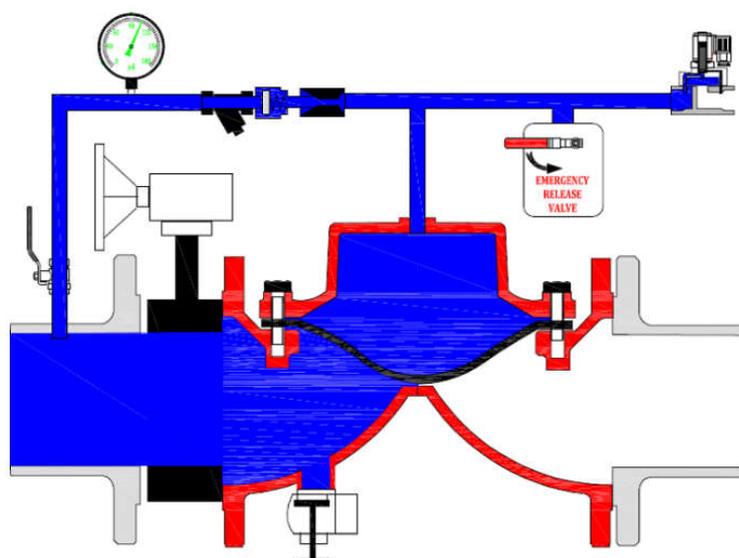
Stoppage of the electric signal will enable re-closure of the valve after the upstream separation valve is closed.

In the case of failure of the automatic activation system, manual emergency activation is possible.

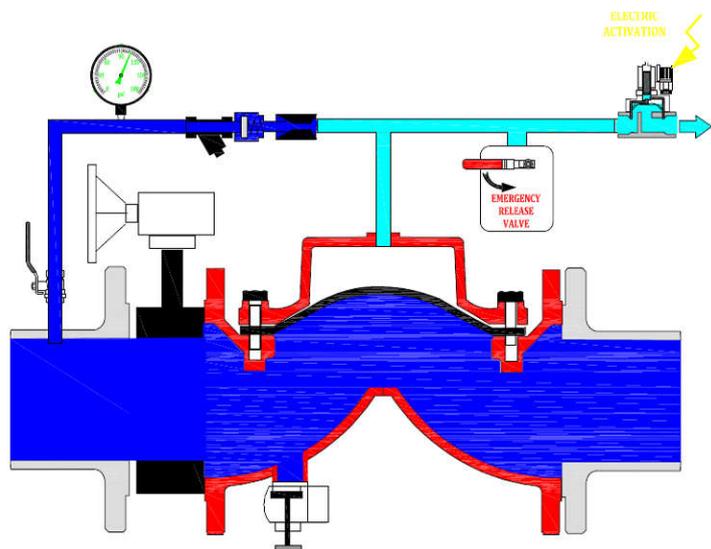
A downstream outlet, which is an integral part of the main valve control trim, can be connected to a hydraulic alarmbell (not supplied by the factory).

(1/2") screen filter is assembled on the pressure line which supplies the main valve control trim and the detection system, to ensure clean operating water preventing clogging.

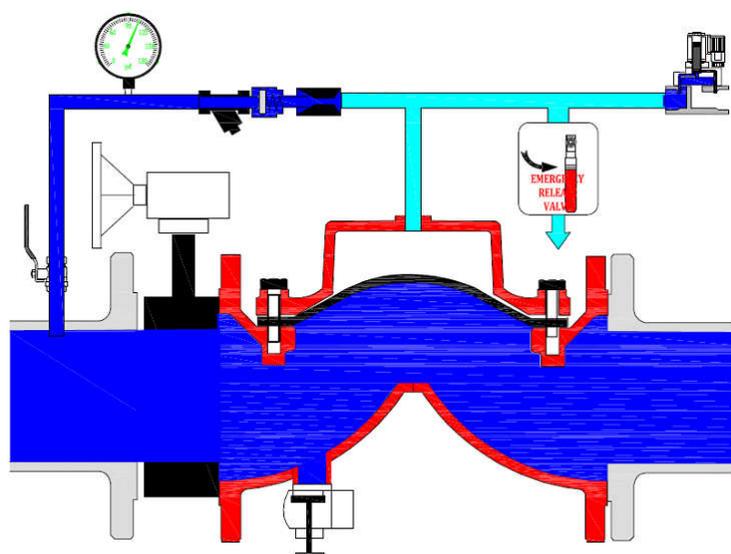
In case of a temporary decrease in the inlet pressure, the main valve will remain in the closed position.



READY



ELECTRIC ACTIVATION



MANUAL ACTIVATION

INSTALLATION

1. The valve should be installed in vertical position while upstream side is at the bottom. Horizontal position is allowed. Sufficient space for maintenance should be left around the valve location.
2. The valve should be positioned in such a way that enables convenient access to the emergency activation valve.
3. Valve [8] of the control assembly should be connected by a ½" galvanized steel pipe to the main supply pipe, upstream the isolating valve.
4. The solenoid valve [12] should be connected, by appropriate cable, to the electric control source.