

Deluge Sprinkler Systems

Deluge sprinkler systems have open sprinklers or open spray nozzles and are used where it is desirable to discharge water through all of the system's sprinklers or nozzles simultaneously. Prior to discharge there is no water in the sprinkler piping. The water supply is held back by a control valve which is operated manually or automatically by the actuation of a fire detection system. The fire detection system is required to be one of the following types: wet pilot sprinkler line, dry pilot sprinkler line, hydraulic rate-of-rise, pneumatic rate-of-rise or electric. Compatible FM Approved Release Control Panels for use with electric release deluge sprinkler system(s) are listed under RELEASE CONTROL PANEL COMPATIBILITY.

Automatic sprinklers are used on wet or dry pilot sprinkler lines. The dry pilot sprinkler line may also require a dry pilot actuator depending upon the type of automatic water control valve. When required, only the compatible dry pilot actuator noted in the sprinkler system listing shall be used in FM Approved systems.

Electrically operated deluge sprinkler systems are FM Approved on a component basis. Only the major, compatible components noted in the sprinkler system listing shall be used in an FM Approved system. FM Global installation acceptance may stipulate that only heat-actuated fire detection devices be used. Acceptance criteria by other jurisdictional authorities may vary.

Deluge sprinkler systems are FM Approved as complete systems. *Only the listed components for a specific manufacturer shall be used in an FM Approved system.*

Electric Actuation Deluge System

Electric Actuation Deluge System. Consists of Model LF-DV100A automatic water control valves in size 4 inch (100 mm) NPS and Model LF-DV150A automatic water control valves in size 6 inch (150 mm) NPS. The system rated working pressure is 175 psi (1205 kPa). Flanged end connections. Vertical installations only. Major trim components include:

- Solenoid valve: Viking part number 13843
- 2 inch NPS System Main Drain Valve
- Alarm test trim
- Water supply pressure gauge
- Air (system) pressure gauge
- Releasing chamber supply connections
- Emergency station / manual pull boxes.
- Any compatible FM Approved Fire Alarm/Releasing Control Panel and associated batteries

Company Name:	Lichfield Fire & Safety Equipment Co Ltd
Company Address:	Unit 8 Calibre Industrial Park, Laches Close, Four Ashes, Wolverhampton, Staffordshire WV10 7DZ
Company Website:	http://www.lifeco-uk.com
New/Updated Product Listing:	No
Listing Country:	United Kingdom
Certification Type:	FM Approved