

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.*

Cla-Val 800 Series Deluge Valves

Model	Release Type	Valve Size, inch	Pressure Rating, psi (kPa)
Model 834-05	Electric	4, 6, 8, 10	250 psi (1725 kPa)
Model 834-60	Electric	4, 6, 8, 10	250 psi (1725 kPa)

Remarks:

Considered FM Approved with an 800GS main control valve and the following components:

- CS3 Solenoid Control (Skinner Model 71395SN2ENJ1NOH111C2 solenoid valve: 24V dc, 8 W)
- CMDL Latching Deluge Pilot
- X58C Restriction Assembly
- X43 "Y" Strainer
- 81-01 Check Valves
- CGA Angle Valves
- Pressure Switch
- Automatic Drain Valve
- Pressure Gages

Company Name:	Cla-Val Co.
Company Address:	1701 Placentia, Costa Mesa, California 92627, USA
Company Website:	http://cla-val.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	1011-Deluge Sprinkler Systems