



Deluge System

Model F-1 Deluge Valve Electric Release

When the detector (1) is activated, a signal is sent to the VFR-400 release control panel (2). The panel sends appropriate alarm signals and, at the same time, energizes the normally closed (NC) solenoid (3) open. The deluge valve priming chamber (4) is then vented faster than water is supplied through the restricted orifice, allowing the deluge valve to open. The water enters the system piping. Water flows from all open sprinklers or nozzles (5). When the deluge valve operates, pressure opens the pressure operated relief valve (PORV) (6) continuously venting the water supply to the priming chamber, ensuring the deluge valve remains in the open position.