

System Component Definitions

Branch Line: The pipes supplying sprinklers, either directly or through sprigs, drops, return bends, or arm-overs.

Cross Mains: The pipes supplying the branch lines, either directly or through risers.

Feed mains: The pipe supplying cross mains, either directly or through risers.

Riser Nipple: Vertical piece of pipe between the main and branch line.

Risers: The vertical supply pipes in a sprinkler system.

Sprig: A pipe that rises vertically and supplies a single sprinkler.

Sprinkler Definitions

Upright Sprinkler:

A sprinkler designed to be installed in such a way that the water spray is directly upwards against the deflector.

Pendent Sprinkler:

A sprinkler designed to be installed in such a way that the water stream is directly downward against the deflector.

Sidewall Sprinkler:

A sprinkler having special deflector that are designed to discharge most of the water away from the nearby wall in a pattern resembling one-quarter of sphere, with a small portion of the discharge directed at the wall behind the sprinkler.

Recessed Sprinkler:

A sprinkler in which all or parts of body, other than the shank thread, is mounted within a recessed housing.

Concealed Sprinkler:

A recessed sprinkler with cover plate.

Open Sprinkler:

A sprinkler that does not have actuators or heat responsive elements. Open sprinklers shall be permitted to be used in deluge systems to protect special hazards or exposures or in other special locations.

Nozzles:

A device for use in application requiring special water discharge patterns, directional sprays, or other unusual discharge characteristics.

Quick Response (QR) Sprinkler:

A type of sprinkler that meets the fast response criteria of 3.6.1(a)(1) and is listed as a quick response sprinkler for its intended use.

Standard Spray Sprinkler:

A spray sprinkler with maximum coverage areas as specified in Section 8.6 and 8.7 of this standard.

Sprinkler K-Factor: K-factors are listed among the specifications for fire sprinkler systems. They are dimensionless numbers used to calculate the flow and pressure of water discharge from sprinkler heads