

Engineering Specification Model KFR56 Quick Response Automatic Sprinklers

Recommended CSI MasterFormat Specification Location: 21 13 00, Fire Suppression Sprinkler Systems (formerly 13930)

Sprinklers shall be a quick response standard spray [upright] [pendent] [horizontal sidewall] that is [cULus Listed] [FM Approved]. Sprinkler frame and deflector shall be of brass frame construction having a 1/2" NPT thread. Water seal assembly shall consist of an approved beryllium-nickel fusible solder link assembly, utilizing a strut and lever principal of operation, with Teflon-coated nickel sealing washer and bronze alloy cap containing no plastic parts. Sprinkler temperature rating shall be [165°F (74°C)] [212°F (100°C)]. Sprinklers shall have a nominal K-factor of 5.6 gpm/psi^{1/2} (81 l/min/bar^{1/2}) – standard orifice. Sprinklers shall have a rated working pressure of [175 psi (12.1 bar) for FM Approved] [250 psi (17.2 bar) for UL Listed]. Standard finish shall be [Bronze] [Chrome Plated] [White Polyester] [Special finish – specify].

Sprinklers shall be of the Model KFR56 Series. Refer to Reliable Bulletin 036 for associated sprinkler identification number (SIN) with respect to style.

For recessed pendent and/or recessed horizontal sidewalls, add:

{Recessed escutcheon assembly shall be a factory-assembled, two-piece steel escutcheon of push-on and thread off design with 1/2" adjustment. Standard finish shall be [White Polyester] [Chrome Plated] [Brass] [special finish – specify].} {Recessed escutcheon assembly shall be a two-piece "friction fit" escutcheon with 1/2" adjustment. Standard finish: [White Polyester] [Chrome Plated] [Brass] [Special finish– specify].}

Recessed escutcheons that are permitted to be used with each Model KFR56 Series recessed sprinkler shall be used.

For concealed pendent sprinklers, add:

Concealed pendent sprinklers shall have a factory-installed, steel sprinkler cup. Method of attaching the cover plate to the sprinkler cup shall be a push-on and thread-off design allowing [1/2" (13 mm)] [5/8" (8 mm)] of adjustment. The cover plate temperature rating shall be [135°F (57°C)] [165°F (74°C)]. A factory applied protective cap shall be provided to protect against installation damage. Standard cover plate finish: [Chrome] [White] [Special finish– specify]. Cover plates used with the Model KFR56 Concealed Pendent sprinklers shall be the Model CCP cover plate.