Engineering Specification

Model F4FR-NF Series Special Sprinklers

**Recommended CSI MasterFormat Specification Location: 21 13 13, Wet Pipe Sprinkler Systems (formerly 13930)**

Sprinklers shall be cULus Listed, non-ferrous, quick response concealed pendent sprinkler specifically designed and tested for use in MRI type applications, and able to withstand exposure to a magnetic field of up to 6 Tesla. Sprinkler to be of bronze frame construction with drop down deflector and **[**135°F (57°C)**] [**155°F (68°C)**]** a 3 mm glass bulb thermal element. Water seal construction shall utilize Belleville spring seal coated with Teflon film on both sides. Concealed pendent sprinkler shall have a nominal K-factor of 5.6 gpm/psi1/2 (80 l/min/bar1/2) – standard orifice and have ½” NPT (R½) thread. Sprinklers shall have a rated working pressure of 175 psi (12 bar).

Flat cover plate assembly construction shall consist of brass cover plate attached to copper alloy skirt using 135°F (57°C) ordinary temperature classification solder. Cover plate shall attach to sprinkler cup assembly by a push-on or threaded engagement providing 1/2” (15 mm) of cover plate adjustment. Cover plate design shall be **[**Finish (specify)**]**.

Sprinklers shall be the Reliable Model F4FR-NF, Non-Ferrous, Concealed Pendent, SIN RA0212. Refer to Reliable Technical Bulletin 002 for associated sprinkler information.