Engineering Specification

Model P22 ESFR Pendent Automatic Sprinklers

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

Sprinklers shall be Early Suppression Fast Response (ESFR) pendent suppression mode sprinklers FM Approved as quick-response storage and non-storage sprinklers. Sprinkler frame and deflector to be of bronze construction. ESFR sprinkler shall be short and compact with a height of 2-7/8” (72 mm) and a diameter of 2” (52 mm). Fusible alloy solder link assembly shall utilize the strut and lever principle of operation with approved fast response beryllium-nickel thermal element with protective **[**black painted, 165ºF (74ºC)**] [**gray painted, 212ºF (100ºC)**]** coating. Water seal shall consist of a Teflon-coated Bellville spring washer and brass cap assembly containing no plastic parts. ESFR sprinklers shall have a nominal K-factor of 22.4 gpm/psi1/2 (320 l/min/bar1/2) and **[**1” NPT threaded**] [**ISO7 R-1 threaded**]** end connections. Sprinklers shall have a rated working pressure of 175 psi (12 bar). Sprinkler temperature rating shall be **[**Ordinary 165ºF (74ºC)**] [**Intermediate 212ºF (100ºC)**]**. ESFR pendent sprinklers shall be Reliable Model P22, SIN R601. Refer to Reliable Bulletin 069 for associated sprinkler information.