



TECHNICAL DATA

Sprinkler PI-8 Series

Installation Guide

1 of 4

Automatic Sprinkler PI-8 Series (CONCEALED TYPE SPRINKLER)



PI 820 / PI821

- Glass bulb
- Standard Spray Pattern
- K-factor 5.6
- Quick & Standard Response



General Description

Paradise Industry Standard and Quick Response Concealed Pendant Sprinkler PI820 and PI821 are thermosensitive glass-bulb spray sprinklers with the cover plate. The sprinkler is pre-assembled with a threaded adapter for installation with a low-profile cover assembly that provides up to 10mm of vertical adjustment..

The two-piece design allows installation and testing of the sprinkler prior to installation of the cover plate. The "thread-on", "thread-off" design of the concealed cover plate assembly allows easy installation of the cover plate after the system has been tested and the ceiling finish has been applied. The cover assembly can be removed and reinstalled, allowing temporary removal of ceiling panels without taking the sprinkler system out of service or removing the sprinkler.

Sprinkler Identification Numbers

PI820 :

Standard response, Pendant, 5.6K, 1/2"(N)PT

PI821 :

Quick response, Pendant, 5.6K, 1/2"(N)PT

Technical Data

Minimum Operating Pressure :

7 psi (0.5 bar)

Maximum Working Pressure :

175 psi (12 bar)

Discharge Coefficient :

$K = 5.6 \text{ GPM/psi}^{1/2} (80.7 \text{ LPM/bar}^{1/2})$

Temperature Rating:

Sprinkler : 155 / 200 °F (68 / 93 °C)

Cover Assembly : 135 / 165 °F (57 / 74°C)

Leakage Test at Factory (Air):

30 Kg_f/cm² (0.3Mpa, 29.4bar, 426.7 psi)

Material

- Frame Forging ..Brass AS1568 Alloy486
- Deflector Copper C2680S
- Spring Seat Ni-Be alloy, coated on both sides with Teflon Tape.
- Bulb Glass
- Bulb Cap Phosphor Bronze C5191
- Screw Brass C3604