

STORAGE

Early Suppression Fast Response Sprinkler (ESFR) Pendent



DESCRIPTION:

The early suppression fast response (ESFR), Model AG-25 is intended for use against severe fire challenges. This sprinkler is designed to respond quickly to growing fires and will deliver a heavy water discharge to “suppress” rather than “control”.

The smaller deflector and frame provide a broad, very symmetrical, hemispherical pattern capable of suppressing fires between sprinklers in high storage height areas and at the same time retaining a high momentum central core to penetrate and suppress fires occurring directly beneath the sprinkler in low storage height areas.

This sprinkler model is designed for ceiling only sprinkler system with no in-rack sprinklers required. It can be used for protection of cartoned exposed expanded plastics as well as some storage arrangements of rubber tires, rolled paper, and aerosols.

TECHNICAL DATA:

| | |
|--|---|
| Nominal “K” Factor | 25,2 (362 metric) |
| Thread Size | 1" (available in NPT or ISO 7-R1) |
| Temperatures | 165°F (74°C) 212°F (100°C) |
| System Pipe | Wet Pipe Systems Only |
| Maximum / Minimum area of coverage | 100 ft ² (9,3 m ²) / 64 ft ² (5,8 m ²) |
| Maximum slope ceiling | 9,5° |
| Maximum spacing | 12 ft (3,7 m) for building heights up to 30 ft (9,1 m) 10 ft (3,1 m) for building heights greater than 30 ft (9,1 m) |
| Minimum spacing | 8 ft (2,4 m) |
| Minimum Deflector distance from walls | 4" (102 mm) |
| Minimum Deflector distance to top of Storage | 36" (914 mm) |
| Minimum Deflector distance to ceiling | 6-18" (152 a 457 mm) |
| Center Line of Thermal Sensing Element To Ceiling Distance | 4-17" (102-425 mm) |
| Maximum Working Pressure | 175 psi (12,1 bar) |
| Materials | Frame: Brass Deflector: Bronze Load Screw: Stainless Steel Lever: Stainless Steel Strut: Stainless Steel Link Assembly: Beryllium Nickel, Soldered Cap: Brass Washer: Beryllium Nickel Kick Spring: Stainless Steel |
| Finish | Bronze |

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OPERATION:

The ESFR sprinkler model AG-25 uses a link which make the rest of the items to be in tension which prevent from the water output, maintaining the assembly in tension. When the temperature rate is approached, the fusible melts and the rest of the items separate, allowing the sprinkler activation and the water flow to exit.

INSTALLATION:

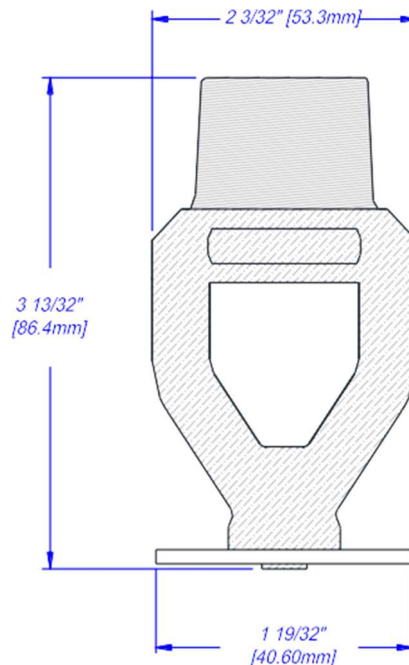
Model AG-25 sprinklers are quick response sprinklers intended for installation as specified in NFPA13. They must also be installed with the Model N Sprinkler Wrench specifically.

A leak tight 3/4" NPT (R3/4) sprinkler joint can be obtained with a torque of 8-18ft-lbs (10.8- 24.4N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

TEMPERATURE RATING:

| Classification | Sprinkler Temperature | | Max. Ambient Temperature | | Bulb Color | Frame Color |
|----------------|-----------------------|-----|--------------------------|----|------------|-------------|
| | °F | °C | °F | °C | | |
| Ordinary | 165 | 74 | 100 | 38 | Black | Uncolored |
| Intermediate | 212 | 100 | 150 | 66 | White | White |

DIMENSIONS:



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