STORAGE Suppression Mode Fast Response (ESFR) Pendent

DESCRIPTION:

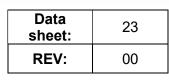


The early suppression fast response (ESFR), Model AG-22 designed to respond quickly to growing fires with a high volume of water discharge to "suppress" rather than "control" fires.

The ESFR sprinkler model AG-22 is UL Listed Specific Application Criteria to Protect Class I - IV commodity and Cartoned Unexpanded Group A plastics stored up to 43 ft (13.1 m) in a 48 ft (14.6 m) building, with a minimum aisle width of 8ft (2,44 m). Permitted Storage Arrangements: Single- and doublerow rack storage (no open top containers or solid shelves) and palletized and solid pile storage (no open top containers or solid shelves). Minimum System Operating Pressure: 55 psi (3.79 bar).

TECHNICAL DATA:

Nominal "K" Factor	22,4 (320)		
Thread Size	1" (available in NPT or ISO 7-R1)		
Temperatures	165°F (74°C)		
	212°F (100°C) ⁽¹⁾		
Nominal Orifice	0,87" (22,1 mm)		
System Type	Wet Pipe systems only		
Maximum / minimum area of	100 ft² (9,3 m²) / 64 ft² (5,8 m²)		
coverage			
Maximum storage height	43 ft (13,1 m)		
Maximum ceiling height	48 ft (14,6 m)		
Maximum slope ceiling	2/12 (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)		
Deflector distance from walls	At least 4" (102mm) / no more than ½ the allowable distance permitted between sprinklers		
Deflector to top storage	36" (914 mm)		
Deflector to ceiling distance	6 - 18" (152 á 457 mm) per NFPA 6 - 14" (152 a 356 mm) when using UL for ceiling up to 48ft (14,6 m)		
Center line of thermal sensing	2 - 17" (50 a 425 mm) with smooth ceilings 4 - 17" (100 a 425 mm) with non-smooth ceiling		
element to ceiling distance (FM only)			
Minimum aisle width	8 ft (2,44 m)		
Maximum working pressure	175 psi (12,1 bar)		
Factory test pressure	500 psi (34,5 bar)		
Finish	Bronze		







OPERATION:

The ESFR sprinkler model AG-22 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:

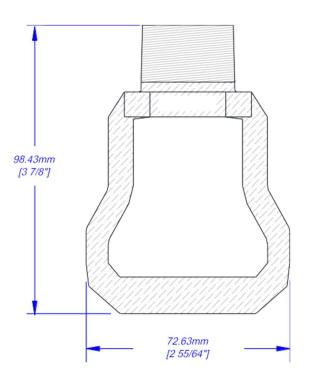
Model AG-22 sprinklers are designed for installation as specified in NFPA 13. They must also be installed with the Model H2 Sprinkler Wrench specifically designed.

The sprinkler joint can be obtained with a torque of 14-20 ft-lbs (19-27,1 N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

TEMPERATURE RATING:

Classification	Nominal Temperature		Maximum Ambient Temperature		Link Color	Frame Color
	٩	°C	٩F	°C		
Ordinary	16 5	74	100	38	Black	Uncolored
Intermedi ate	21 2	10 0	150	66	White	White

DIMENSIONS:



Data sheet:	23	
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