

GA SERIES / MODEL GA-1112

Extended Coverage / Light Hazard

Quick Response Sprinkler

Recessed Pendent, Pendent



PRODUCT DESCRIPTION

AG Fire Sprinkler Model GA-1112, pendent sprinklers described in this technical data sheet are extended coverage, ordinary hazard, and quick response.

Using extended coverage sprinkler can reduce installation costs by requiring fewer sprinklers, less piping and less labor than commercial sprinklers.

Thermosensitive glass bulb 3mm is used. They have a capacity to react 6 times faster than standard response sprinklers. The bulb contains a special liquid hermetically sealed in a glass capsule.

TECHNICAL DATA

Nominal "K" Factor	11,5 (160 metric)
Thread Size	3/4" NPT (R3/4)
Temperatures	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C)
Maximum Working Pressure	175psi (12bar)
Materials	Frame: Brass Alloy Deflector: Cooper Alloy Screw: Brass Alloy Bulb Seat: Brass Alloy Sealing Spring: Nickel Alloy Bulb: Glass, 3 mm size
Reference	GA1112
Finish¹	Bronze Chrome Polyester

1. Other Finishes available under request.

OPERATION

At normal temperatures, the glass bulb contains the fluid in both the liquid phase and the vapor phase. The vapor phase can be seen as a small bubble. As heat is applied, the liquid expands forcing the bubble smaller and smaller as the liquid pressure increases. Continued heating forces the liquid to push out against the bulb, causing to shatter, opening the waterway and allowing the deflector to distribute the discharging water.

INSTALLATION

Model GA1112 sprinklers are quick response sprinklers intended for installation as specified in NFPA13. They must also be installed with the Model **AC** or **CO3** Sprinkler Wrench specifically designed by AG Fire Sprinkler for use with these sprinklers.

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.

The sprinklers come with an orange protection, to avoid breakage during assembly. Remove this protection once installed and made sure that everything is correct. The AG Sprinkler Wrenches are designed to install sprinklers with the protection still.

TEMPERATURE RATINGS

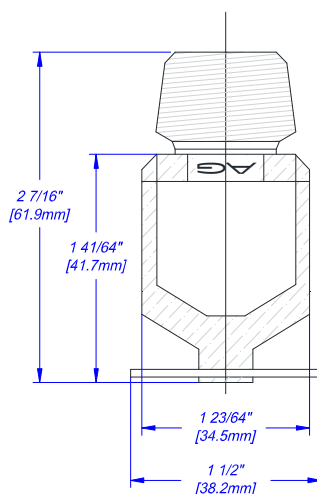
Classification	Sprinkler Temperature		Max. Ambient Temperature		Bulb Color
	°F	°C	°F	°C	
Ordinary	135	57	100	38	Orange
Ordinary	155	68	100	38	Red
Intermediate	175	79	150	66	Yellow
Intermediate	200	93	150	66	Green

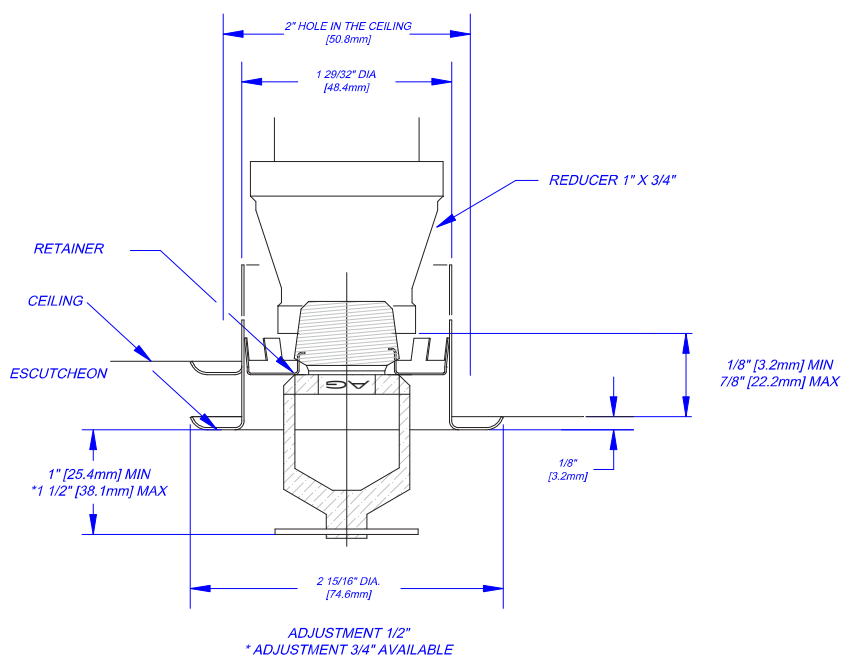
cULus LISTING – LIGHT HAZARD

GA1112	Temperatures				Max. Area of Coverage	Min. Pressure	Flow
	135°F (57°C)	155°F (68°C)	175°F (79°C)	200°F (93°C)			
Pendent	X	X	X	X	16ft x 16ft (4m9m x 4,9m)	7psi (0,48bar)	30gpm (114l/min)
Recessed	X	X	X	X			
Pendent	X	X	X	X	18ft x 18ft (5,5m x 5,5m)	8,7psi (0,60bar)	33gpm (125l/min)
Recessed	X	X	X	X			
Pendent	X	X	X	X	20ft x 20ft (6,1m x 6,1m)	12,8psi (0,88bar)	40gpm (151l/min)
Recessed	X	X	X	X			

Note: Minimum distance between upright sprinklers is 6 feet (1,8meters)

DIMENSIONS





ORDERING INFORMATION

P/N	GAXXXX Y Z
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DESCRIPTION	CODE
Pendent	GA1112

Y	1	57°C	135°F
	2	68°C	155°F
	4	79°C	175°F
	5	93°C	200°F

Z	1	BRASS
	2	CHROME
	3	WHITE RAL9003

Specify:

Quantity	
Model Number	
Type	
Orifice	
Thread Size	
Temperature	
Finishes	
Quantity - Wrenches	