

GA SERIES / MODEL GA-112

Extended Coverage / Ordinary Hazard
Recessed Pendent, Pendent & Upright



Recessed Pendent



Pendent



Upright

PRODUCT DESCRIPTION

AG Fire Sprinkler Model GA-112, Upright pendent sprinklers described in this technical data sheet are extended coverage, ordinary hazard.

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

Thermosensitive glass bulb 3 mm is used. They have a capacity to react 6 times faster than 5mm bulbs. 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 (R 3/4)
Temperatures	155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°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	Pendent: GA1113 Upright: GA1121
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 GA-112 sprinklers are 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

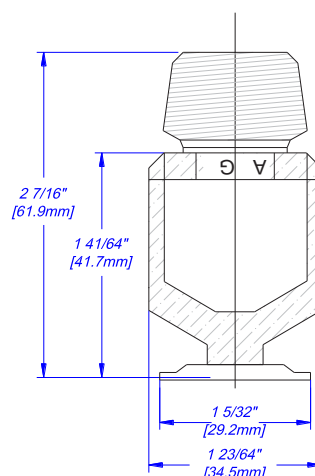
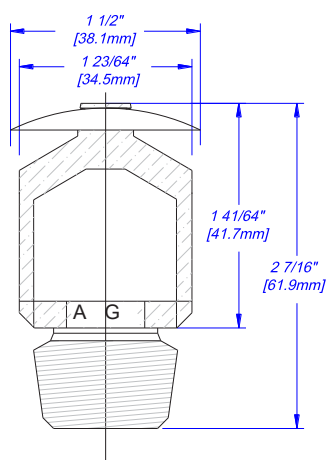
Classification	Sprinkler Temperature		Max. Ambient Temperature		Bulb Color
	°F	°C	°F	°C	
Ordinary	135	57	100	38	Orange
Ordinary	155	68	100	38	Red
Intermediate	175	79	150	66	Yellow
Intermediate	200	93	150	66	Green

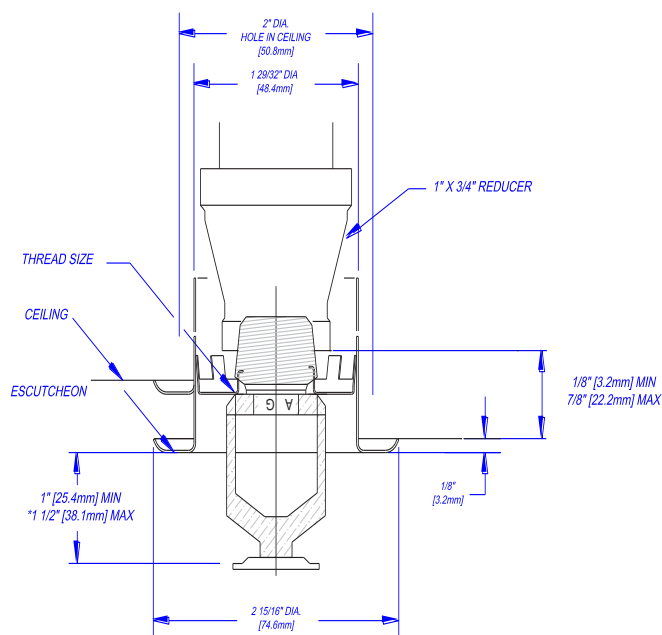
cULus LISTING – ORDINARY HAZARD

Response	Temperatures				Max. Area of Coverage ft (m)	Ordinary Group 1		Ordinary Group 2	
	155°F (68°C)	175°F (79°C)	200°F (93°C)	286°F (141°C)		Min. Pressure psi (bar)	Min. Flow gpm (l/min)	Presión Mínima psi (bar)	Min. Flow gpm (l/min)
QUICK RESPONSE	X		X		14 x 14 (4,3 x 4,3)	7 (0,48)	30 (114)	12 (0,83)	39 (148)
STANDARD RESPONSE	X	X	X	X	16 x 16 (4,9 x 4,9)	12 (0,83)	39 (148)	21 (1,45)	51 (193)
					18 x 18 (5,5 x 5,5)	19 (1,31)	49 (185)	34 (2,34)	65 (246)
					20 x 20 (6,1 x 6,1)	29 (2,0)	60 (227)	51 (3,52)	80 (303)

Note: Minimum distance between upright sprinklers is 9 feet (2,7meters)

DIMENSIONS





ORDERING INFORMATION

P/N	GAXXXX Y Z
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DESCRIPTION	CODE
Pendent	GA1113
Upright	GA1121

Y	2	68°C	155°F
	4	79°C	175°F
	5	93°C	200°F
	7	141°C	286°F

Z	1	BRASS
	2	CHROME
	3	WHITE RAL9003

Specify:

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