

GA SERIES / MODEL GA1311

Extended Coverage / Light Hazard
Pendent / Recessed Pendent



PRODUCT DESCRIPTION

The model GA1311 sprinkler is a standard coverage, decorative pendent sprinkler that can be installed with or without escutcheon, depending on the environment in which it is to be installed and the importance of its finish.

The GA1311 sprinkler is quick response with a 3mm bulb.

The product is designed for use in commercial and industrial buildings.

Using extended coverage sprinklers can reduce installation costs by requiring fewer sprinklers, fewer pipes, and less manpower than standard coverage sprinklers..

The ampoule contains a quantity of special liquid hermetically sealed inside a glass capsule, so that when the liquid expands, the bubble disappears and later, at the appropriate temperature, the bulb breaks, letting the water outlet free to discharge.

TECHNICAL DATA

Nominal "K" Factor	5.6 (80)
Thread Size	1/2" NPT
Temperatures	135°F (57°C) sprinkler 155°F (68°C) sprinkler
Maximum Working Pressure	175psi (12 bar)
Materials	Frame: DZR Brass Deflector: Bronze Screw: Brass Bulb Seat: Brass Seal Teflon: Teflon Bulb: Glass, 3mm size Escutcheon Assembly: Chrome Steel
Reference	GA1311
Finish (Sprinkler)	Bronze, Chrome, White.
Finish (Escutcheon)	Chrome, White (1.)

- For special finishes, consult the details in advance with the Technical Office.

APPROVALS

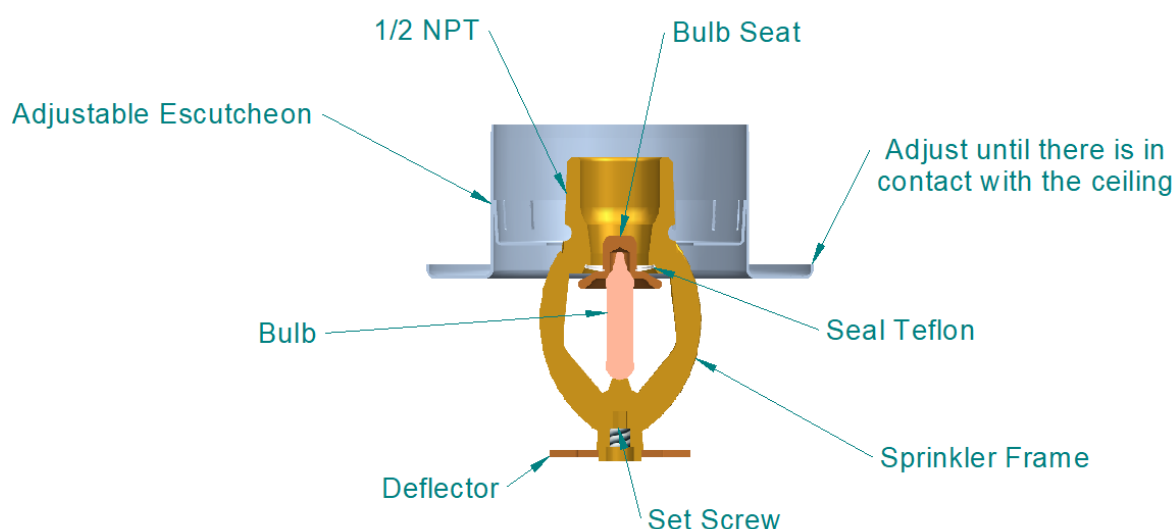
The following are the approvals that the GA1311 sprinkler has successfully passed.

GA1311	Temperature (°F)			Approval	Finish
	135	155	175		
Pendent	X	X		UL	Bronze, chrome, white
	X	X	X	FM	Bronze, chrome, white
Recessed pendent	X	X		UL	Bronze, chrome, white
	X	X		FM	White
Pendent	X	X		UL	Bronze, chrome, white
	X	X	X	FM	Bronze, chrome, white
Recessed pendent	X	X		UL	Bronze, chrome, white
	X	X		FM	White
Pendent	X	X		UL	Bronze, chrome, white
	X	X	X	FM	Bronze, chrome, white
Recessed pendent	X	X		UL	Bronze, chrome, white
	X	X		FM	White

Note: The minimum distance between sprinklers is 2,4 m.

OPERATION

Under normal conditions, the glass bulb contains both liquid and a gas bubble. As the temperature increases, the bubble decreases in size due to the internal pressure exerted by the liquid as it heats up. When the nominal temperature of the bulb is reached, the liquid inside the bulb exerts the necessary pressure to break the bulb and release the water flow. Finally, it is the deflector that distributes the water flow in a suitable way over the operating surface.



INSTALLATION

Model GA1311 sprinklers are designed to be installed as specified in this section. They must be installed using the Model CO sprinkler wrench for those with escutcheon and the AB wrench for those without escutcheon.

Do not install any sprinkler if the bulb is broken, leaking or in poor condition. With the sprinkler held horizontally, the air bubble must be clearly visible.

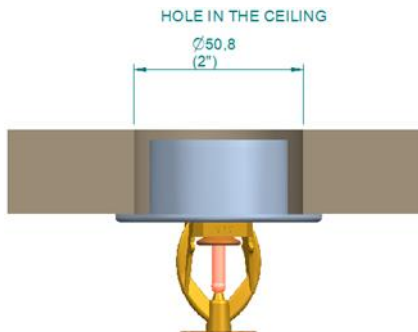
If the sprinkler has any visual damage do not install it, replace it with another unit.

The following steps will explain how to install GA1311 sprinklers with escutcheon in steps 1, 2, 3, 4 and without escutcheon in steps 1 and 4.

1. First of all, the sprinkler is removed from its packaging and a visual inspection is carried out to check that it has not suffered any deformation or that none of its parts are in a bad state.
2. Thread the sprinkler with the escutcheon by hand all the way.

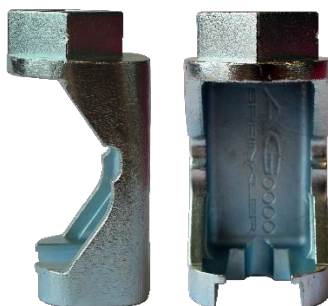
Note: Be careful when screwing the sprinkler and do not touch the deflector, always catch when you want to do something to the body.

3. Drill a 2" hole in the ceiling to be able to install our sprinkler with escutcheon correctly.

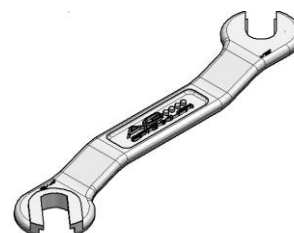


Note: Do not make the hole larger than specified above to ensure that the hole is not visible once the escutcheon is fitted.

4. Thread the sprinkler with or without escutcheon where it is to be finally positioned by applying a force of 8 to 18 ft-lb (10.8 - 24.4 Nm) to obtain a tight 1/2" (R1/2) NPT joint. Do not tighten the sprinklers above the maximum recommended torque, as this may cause leakage or damage to the sprinklers. The AB or CO sprinkler spanner, specially designed for this product, is to be used.



1 Key for sprinkler with escutcheon.

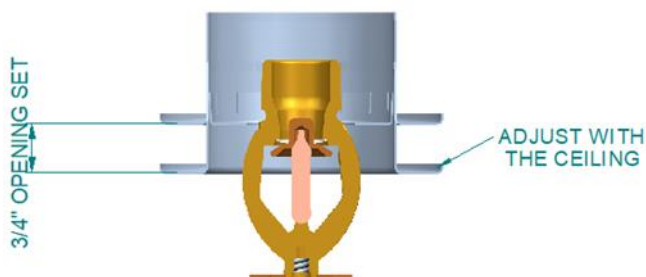


2 Key for sprinkler without escutcheon.

Note: It is important to hold the sprinkler by the body when handling to avoid damage to the sprinkler (do not use force on the deflector).

5. Once the sprinkler is installed, if the escutcheon is separated from the ceiling, once the sprinkler is well tightened with its corresponding torque, push the external part of the escutcheon towards the ceiling until it is completely adjusted to the ceiling.

Note: Fit using the 3/4" set in the escutcheon as shown in the dimensions section.



MAINTENANCE

GA1311 Series sprinklers must be inspected and maintained in accordance with applicable standards according to their approvals (refer to the appropriate data sheet).

Do not clean the sprinklers with soap and water, ammonia, or other cleaning liquids that may be corrosive.

Remove dust with a vacuum cleaner.

If the room where the sprinklers will be installed needs to be painted, paint it before installing them. If not possible, remove covers before painting. If any sprinkler or cover shows any paint on it, replace it immediately.

Sprinklers that are leaking or show visible signs of corrosion should be replaced.

Sprinklers damaged by dropping, knocking, bending, twisting, slipping or similar should be replaced.

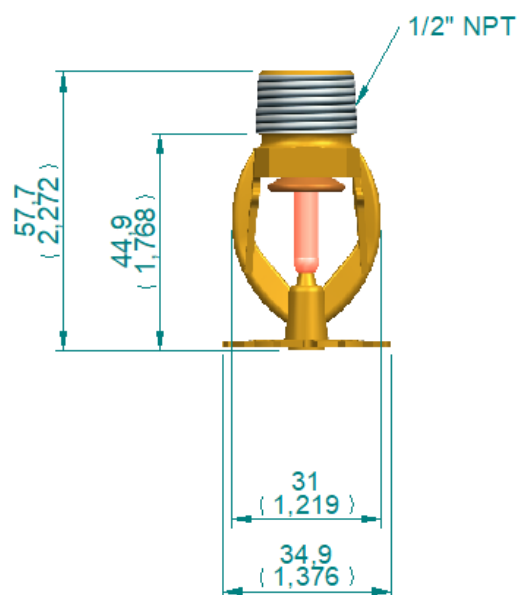
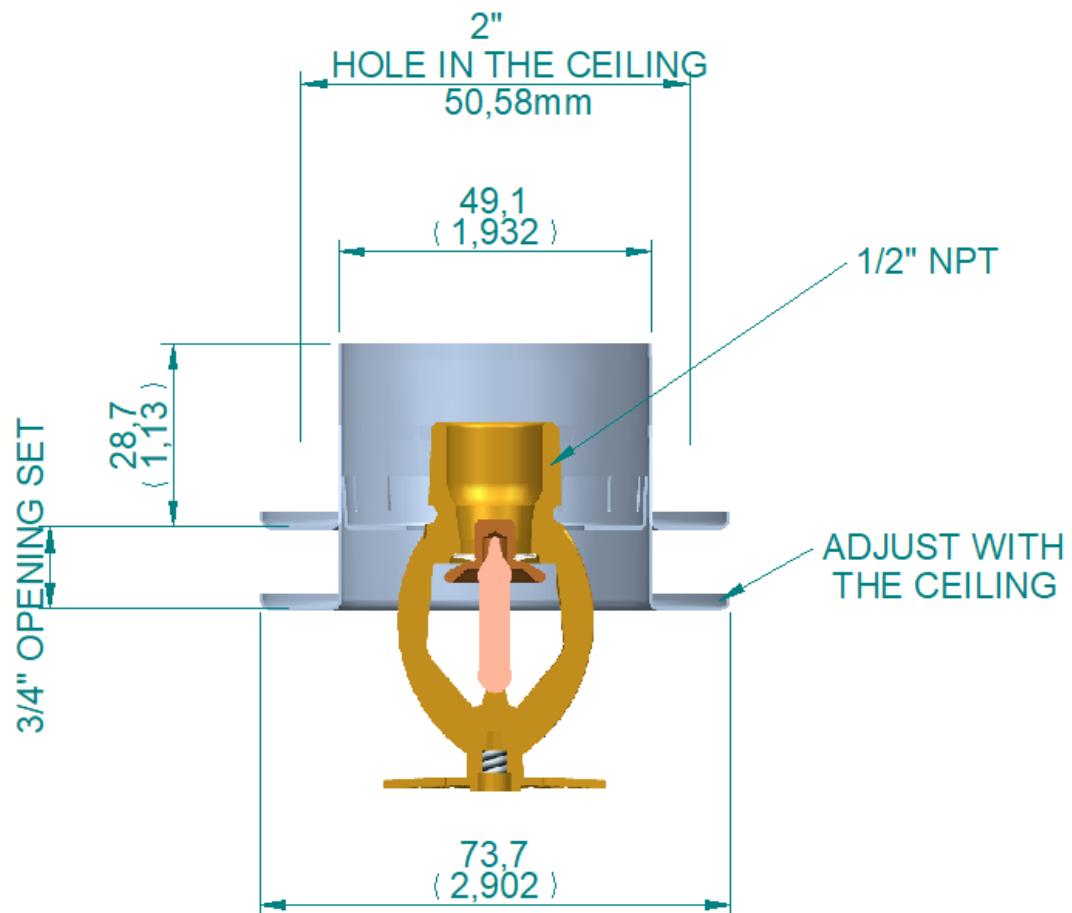
A stock of spare sprinklers should be maintained to allow rapid replacement of damaged or cracked sprinklers.

Prior to installation, sprinklers should be kept in the original packaging until use to minimize the damage to sprinklers.

TEMPERATURAS NOMINALES

Classification	Sprinkler Temperature		Maximum Ceiling Temp.		Bulb Color
	°F	°C	°F	°C	
Standard	135	57	100	38	Orange
Standard	155	68	100	38	Red
Intermediate	175	79	150	66	Yellow

DIMENSIONS



ORDERING INFORMATION

P/N	GAXXXX Y Z
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DESCRIPTION	CODE
Colgante	GA1311

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

Z	1	BRONZE
	2	CHROME
	3	WHITE

Specify:

Quantity	
Model number	
Type	
Orifice	
Type Deflector	
Temperature	
Finishes	
Finish of the escutcheon	