GA SERIES / MODEL GA4245

Standard Coverage / Decorative Sprinkler
Quick Response / Concealed Pendent Sprinkler
K-Factor 4,2 (60)

Product description

The model GA4245 adjustable concealed pendent sprinklers are designed for use in settings where aesthetics is important, such as hotels, offices, and hospitals, among others. They are recessed into the ceiling and feature a dome cover available in various finishes, designed to conceal the sprinkler.

The GA4245 sprinkler is quick response with a 3 mm bulb.

The bulb 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.

Listings and Approvals



Listed by cULus

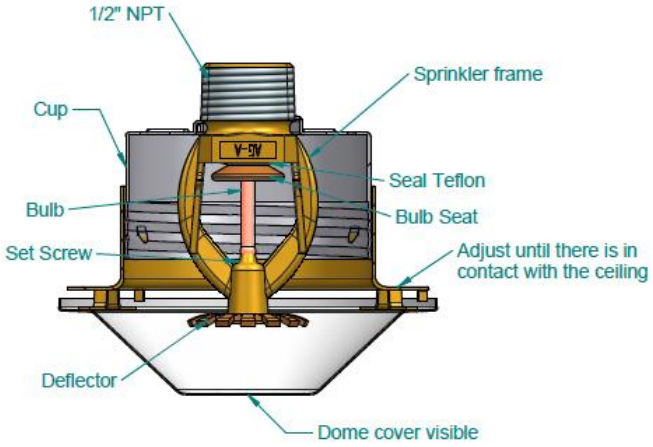
Technical data

Model	GA4245
Certifications	UL
Position	Pendent
K Factor	4,2 (60)
Thread diameter	½" NPT
Response	Quick (Bulb 3 mm)
Maximum working pressure	175 psi (12 bar)
Sprinkler temperature	135ºF (57ºC), 135ºF (57ºC) Cover 155ºF (68ºC), 135ºF (57ºC) Cover 175ºF (79ºC), 155ºF (68ºC) Cover 200ºF (93ºC), 155ºF (68ºC) Cover
Materials	Frame: Brass Deflector: Bronze Screw: Brass Bulb Seat: Brass Seal Teflon: Teflon Bulb: Glass, 3mm size Cup: Steel
Finish (Sprinkler)	Bronze
Finish (Cover)	White (1.)

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

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 reaches 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 specific pattern over the operating surface.



Approvals chart

STANDARD COVERAGE SPRINKLER							
Type of response	**Reference**	**Sprinkler Temperature ºF (ºC)**	**Cover Temperature ºF (ºC)**	**Maximum working pressure bar (psi)**	**Nominal K factor gpm/psi^1/2 (lpm/bar^1/2)**	**Thread size (NPT)**	**Approvals**
Quick response	GA4245	135 (57)	135 (57)	12 (175)	2,8 (40)	½"	UL
		155 (68)	135 (57)	12 (175)	2,8 (40)	½"	UL
		155 (68)	155 (68)	12 (175)	2,8 (40)	½"	UL
		175 (79)	155 (68)	12 (175)	2,8 (40)	½"	UL
		200 (93)	155 (68)	12 (175)	2,8 (40)	½"	UL

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Installation

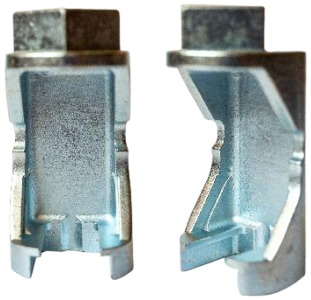
Model GA4245 sprinklers are designed to be installed as specified in this section. They must be installed using the Model C01 wrench, which is specifically designed for this product.

> 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.

Model GA4245 sprinklers must be installed in a 2 ½" (63,5 mm) ceiling opening in pendent position.

Thread the sprinkler into its final position, applying a torque of 8 to 18 ft-lb (10.8 – 24.4 Nm) to obtain a tight 1/2" (R1/2) NPT connection. Do not overtighten the sprinklers beyond the maximum recommended torque, as this may cause leaks or damage to the sprinklers.

Use the CO1 sprinkler wrench, specially designed for this product.



1. C01 Sprinkler wrench

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

Maintenance

GA4245 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 wil 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, vending 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 used to minimize the damage to sprinklers.

Temperatures ratings

Classification	Sprinkler temperature		Maximum Ceiling Temp.		Bulb color
	ºF	ºC	ºF	ºC	
Ordinary	135	57	100	38	Orange
Ordinary	155	68	100	38	Red
Intermediate	175	79	150	66	Yellow
Intermediate	200	93	150	66	Green

Applicable Regulations

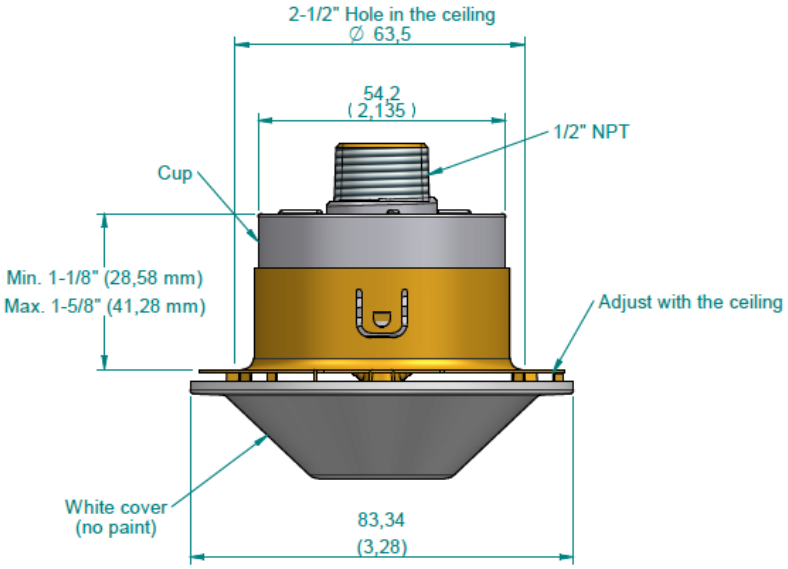
GA Series sprinklers systems must be designed in accordance with the installation and maintenance criteria of NFPA, EN, FM Datasheets and other local and national regulations.

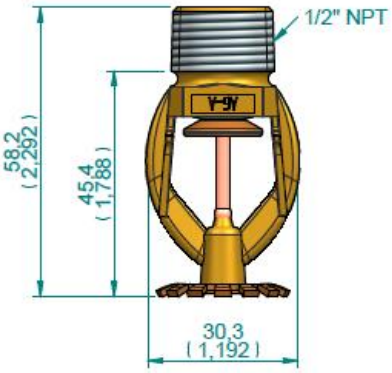
Warranty

For warranty conditions, please contact AG Fire Sprinkler.

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Dimensions





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Transport and Storage

Original Packaging
Automatic sprinklers must be transported and stored exclusively in their original packaging in order to preserve their physical and factor condition.

Proper Handling
Any type of improper stacking or handling that could compromise the structural or functional integrity of the product must be avoided.

Environmental Conditions
Sprinklers must be kept in dry locations, protected from moisture, dust, corrosive agents, and extreme temperatures.
Failure to comply with these conditions may void the warranty and render the product unfit for use.

Pre-Installation Inspection
Before installation, each sprinkler must undergo a visual inspection to ensure there is no physical damage, corrosion, deformation, or other defects.

Removal of Protective Caps
Factory-installed protective caps must only be removed once civil Works are complete, and always before system activation.
⚠ Premature removal of protective caps may cause irreversible damage to the equipment.

Responsibilities and Requirements

Reading Instructions
The user must carefully read all instructions before installing any AG Fire Sprinkler product.

Product Verification
It is the user's responsibility to ensure that AG Fire Sprinkler products are suitable for their intended application, in accordance with industry standards and the technical information provided.
⚠ No document modifies the standard terms of sale or warranty conditions.

Installer Knowledge
The installer must understand how the product works and the reasons for its specific selection.

Safety Regulations
They must be familiar with relevant industry regulations and aware of the risk associated with incorrect installation.

Serious Consequences
Failure to comply with installation requirements and current regulations may compromise system performance, resulting in system failure, personal injury, loss of life, or significant property damage.

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Ordering information

P/N	GAXXXX Y Z

DESCRIPTION	CODE
Concealed Pendent	GA4245

Y	1	57ºC	135ºF
	2	68ºC	155ºF
	4	79ºC	175ºF
	5	93ºC	200ºF

Z	1	BRONZE

ACCESORIES	M

ACCESORIES	M
Sprinkler wrench model CO1	35300034
Threaded dome coverplate 57ºC chrome	35300039
Threaded dome coverplate 57ºC white	35300040
Threaded dome coverplate 68ºC chrome	35300046
Threaded dome coverplate 68ºC white	35300047
Cabinet for sprinklers 1/2” & 3/4” (12 units)	A002289

Please specify the following when ordering:

Quantity	
Model number	
Type	
Orifice	
Nominal temperature	
Finish of the sprinkler	
Accessories	

The equipment presented in this data sheet must be installed in accordance with the latest relevant standards of the National Fire Protection Association (NFPA), FM Global, LPCB, VdS or other similar organisations, as well as applicable governmental regulations.
This document is not binding. AG Fire Sprinkler reserves the right to make any changes to the document without prior notice.

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