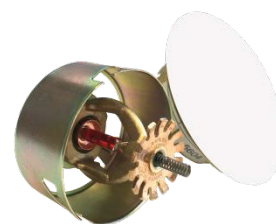


GA SERIES / MODEL GA5654

Standard Coverage / Decorative Sprinkler

Standard Response Sprinkler

Concealed Sprinkler



PRODUCT DESCRIPTION

Concealed sprinkler Model GA5654 described in this data sheet are decorative sprinklers where a flat cover plate is placed which have the purpose to conceal the sprinkler.

It is the best solution than we have for spaces whose aesthetic is very important as hotels, offices, hospitals, etc. The assembly is recessed in the ceiling and hidden by the flat plate closure. Everything is going to appreciate is the flat cover plate with the requested finish.

Thermosensitive glass bulb 5 mm is used. The bulb contains a special liquid hermetically sealed in a glass capsule.

TECHNICAL DATA

Nominal "K" Factor	5.6 (80 metric)
Thread Size	1/2" NPT
Temperatures	135°F (57°C) sprinkler, 135°F (57°C) cover plate. 155°F (68°C) sprinkler, 135°F (57°C)/155°F (68°C) cover plate 155°F (68°C) sprinkler, 155°F (68°C) cover plate. 175°F (79°C) sprinkler, 155°F (68°C) cover plate. 200°F (93°C) sprinkler, 155°F (68°C) cover plate.
Maximum Working Pressure	175 psi (12 bar)
Materials	Frame: Brass Alloy Deflector: Cooper Alloy Screw: Brass Alloy Bulb Seat: Copper Alloy Sealing Spring: Nickel Alloy Bulb: Glass, 5mm size Vibration Spring: High Carbon Steel Cup for Concealed Sprinklers: Steel
Reference	GA5654
Finish	Bronze

OPERATION

The flat cover plate is welded to the entire support in three places, after the application of sufficient heat, the flat cover plate falls down exposing the sprinkler.

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.

A special spring attached to the sprinkler deflector which serves to provide a constant tension against the flat cover plate, preventing problems of environmental vibration.

INSTALLATION

Model GA5654 sprinklers are standard response sprinklers intended for installation as specified in NFPA13. They must also be installed with the Model **CO1** Sprinkler Wrench specifically designed by AG Fire Sprinkler for use with these sprinklers. A hole 2 1/2" (63.5mm) in the ceiling will be necessary for the installation.

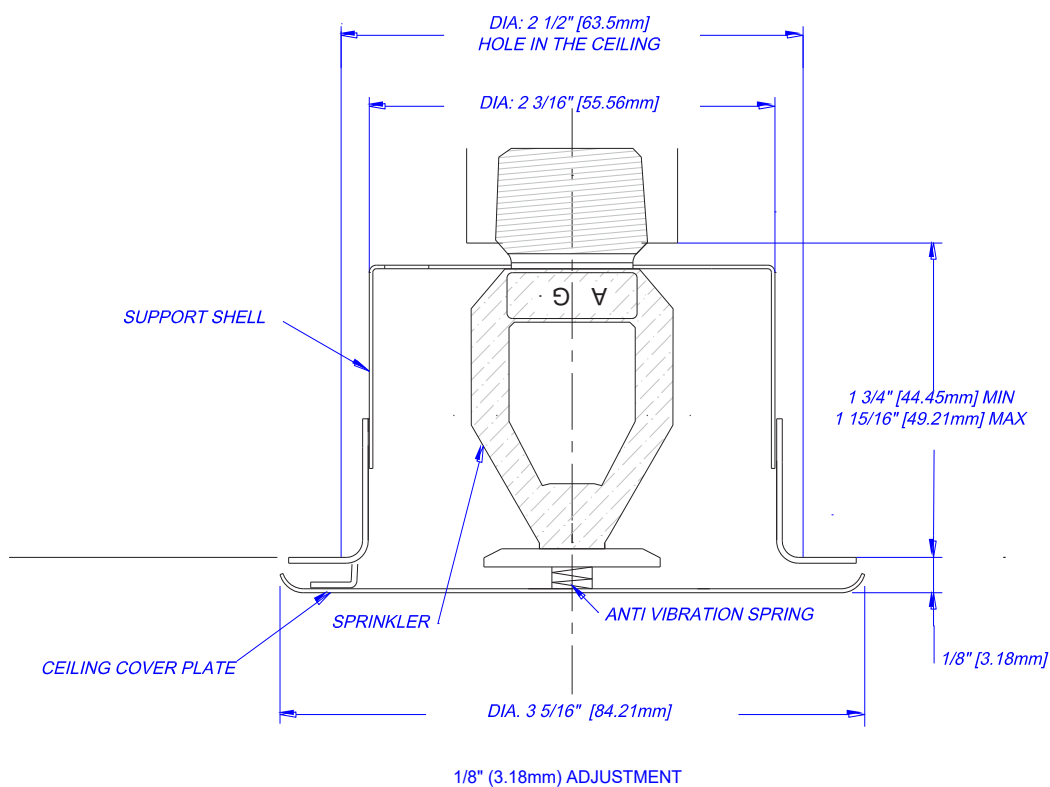
A leak tight 1/2" NPT (R1/2) sprinkler joint can be obtained with a torque of 8-18ft-lbs (10.8-24.4N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

Note: Installation with overpressure above the housing is not permitted.

TEMPERATURES RATINGS

Classification	Sprinkler Temperature		Maximum Ceiling Temp.		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

DIMENSIONS



ORDERING INFORMATION

P/N	GAXXXX Y Z
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DESCRIPTION	CODE
Concealed pendant	GA5654

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

Z	1	BRASS
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Specify:

Quantity	
Model Number	
Type	
Orifice	
Type deflector	
Temperature	
Finishes	
Finish of the escutcheon	