GA SERIES / MODEL GA5613

Extended Coverage / Light Hazard
Quick Response Sprinkler
Concealed Horizontal Sidewall

c UL us
EX15331



PRODUCT DESCRIPTION

Concealed sprinkler Model GA5613 described in this data sheet are decorative sprinklers where a conical 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 conical plate closure. Everything is going to appreciate is the conical cover plate with the requested finish.

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	5.6 (80 metric)
Thread Size	1/2" NPT
Temperatures	135ºF (57ºC) sprinkler, 135ºF (57ºC) cover plate 155ºF (68ºC) sprinkler, 135ºF (57ºC) cover plate 175ºF (79ºC) sprinkler, 155ºF (68ºC) 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, 3mm size Cup for Concealed Sprinklers: Steel
Reference	**GA5613**
Finish	Bronze

OPERATION

The conical 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.

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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 GA5613 sprinklers are quick 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 leak tight ½" 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.

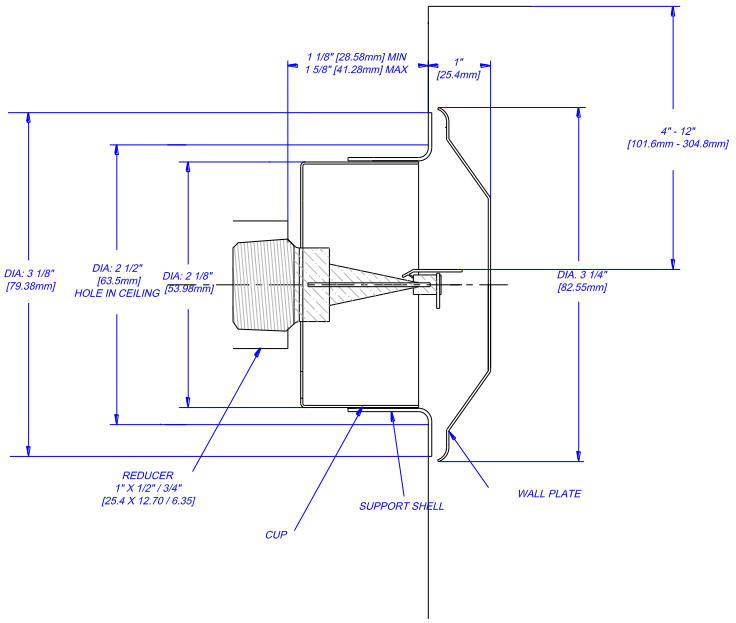
Note: Installation with a positive pressure above the housing is not pernitted.

UL LISTING

GA5613	Temperatures			Ceiling to deflector distance	Width of Coverage	Length of Coverage	Minimum pressure	Flow
	135ºF (57ºC)	155ºF (68ºC)	175ºF (79ºC)					
Concealed Horizontal	X	X	X	4" to 6" (102mm to 152mm)	16ft (4.9m)	18ft (5.5m)	26.8psi (1.85bars)	29gpm (109l/min)
	X	X	X	6" to 12" (152mm to 304.8mm)	16ft (4.9m)	18ft (5.5m)	32.7psi (2.25bars)	32gpm (120l/min)
	X		X	4" to 12" (102mm to 304.8mm)	16ft (4.9m)	20ft (6.1m)	32.7psi (2.25bars)	32gpm (120l/min)

Minimum space between sprinklers 7' (2.1m).

DIMENSIONS



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ORDERING INFORMATION

P/N	GAXXXX Y Z

DESCRIPTION	CODE
Concealed horizontal	GA5613

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

Z	1	BRASS

Specify:

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

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- Sprinklers
  - Standard Coverage
  - Extended Coverage
  - Storage
  - Dry
  - Accessories
- System Valves
  - Wet
  - Dry
  - Preaction Equipment
  - Accessories
- Spray System Open Nozzles
  - High Velocity Nozzles
  - Medium Velocity Nozzles
  - Window Nozzles
  - Hydroshield Nozzles
  - Mushroom Type Nozzles
- Foam equipment
  - Tanks
  - Proportioners
  - Foam Discharge Equipment
  - Foam Concentrates
- Deluge equipment for Water Spray and Foam
  - Clapper Deluge Valves
  - Diaphragm Deluge Valves
- Monitors
  - Manual Monitors
  - Remote Monitors
  - Monitor Nozzles
  - Towers and Trolleys
- Valves
  - Butterfly Valves
  - Gate Valves
  - Check Valves
  - Pressure Control Valves
  - Test and Drain
  - Hose, Hydrant and Fire Connection Valves
  - Fire Department Connections

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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