GA SERIES / MODEL GA-5681

Dry Sprinkler
Standard Response Sprinkler
Concealed Pendant Sprinkler



c UL us LISTED EX15331

PRODUCT DESCRIPTION

Dry concealed sprinkler Model GA-5681 described in this data sheet have been designed to be used in preaction systems and areas exposed to freezing temperatures, such as cold stores and other non climate-controlled areas.

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" NPT (ANSI B2.1) / ISO 7-R1 (Optional)
Temperatures	135ºF (57ºC) sprinkler, 135ºF (57ºC) cover plate 155ºF (68ºC sprinkler, 135ºF (57ºC) cover plate 175ºF (79ºC) sprinkler, 155ºF (68ºC cover plate 200ºF (93ºC) sprinkler, 155ºF (68ºC) cover plate
Maximum Working Pressure	175 psi (12 bar)
"A" Dimension	Minimum according drawings and maximum 48" (1219 mm) in ¼" (6 mm) increments
Materials	Frame: Brass Alloy Deflector: Cooper Alloy Screw: Brass Alloy Bulb Seat: Copper Alloy Sealing Spring: Nickel Alloy Bulb: Glass, 5 mm size Cup for Concealed Sprinklers: Steel
Reference	**GA5681**
Finishes(1)	Bronze Chrome Polyester coated

(1) Other finishes available under request.

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.

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INSTALLATION

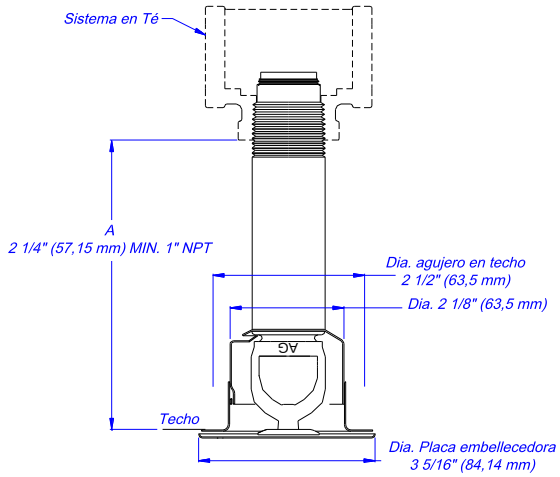
Model GA-5681 dry sprinklers must be installed only in standard (ANSI B 16.3 class 150 and ANSI B 16.4 class 125) pipe tees in the horizontal position, even at branch line ends. They should not be installed into elbows or pipe couplings located on drop nipples to the sprinklers. For these and other fittings including CPVC, the dry sprinkler should be installed into a fitting to allow protrusion into the fitting in accordance with the diagrams. The “A” dimension of the dry sprinkler, which extends into a freezing zone from wet pipe systems, should be selected to provide, as a minimum, the specified lengths in the “Dimensions” section. They must also be installed with the Model **CO2** Sprinkler Wrench specifically designed by AG Fire Sprinkler for use with these sprinklers.

A leak tight 1" NPT (R1) sprinkler joint can be obtained with a torque of 8-18ft-lbs (10,8-24,4 N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

TEMPERATURE 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

DIMENSIONS



DRY PENDANT CONCEALED MODEL, FLAT COVER PLATE

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ORDERING INFORMATION

P/N	GAXXXX Y Z LV

DESCRIPTION	CODE
Concealed pendent	GA5681

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

Z	**1**	BRASS
	2	CHROME
	3	WHITE RAL9003

LV	**02**	2” – 5 ¾”	**27**	27” – 29 ¾”
	06	6” – 7 ¾”	**30**	30” – 32 ¾”
	08	8” – 11 ¾”	**33**	33” – 35 ¾”
	12	12” – 14 ¾”	**36**	36” – 38 ¾”
	15	15” – 17 ¾”	**39**	39” – 41 ¾”
	18	18” – 20 ¾”	**42**	42” – 44 ¾”
	21	21” – 23 ¾”	**45**	45” – 48”
	24	24” – 26 ¾”		

Specify:

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

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AG FIRE SPRINKLER

AG Fire Sprinkler offers a wide selection of components. Then a list of products is presented by AG Fire Sprinkler, we can offer all these components, made with precision to protect people, anywhere, anytime.

- 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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