

GA SERIES / MODELS GA1251, GA2251

Standard Coverage / Conventional Sprinkler

Quick Response Sprinkler



K80



K115



PRODUCT DESCRIPTION

AG Fire Sprinkler Models GA1251 and GA2251, conventional sprinklers described in this technical data sheet are standard response, standard coverage 3mm glass bulb. These sprinklers are designed for use in commercial occupancies and factories.

Thermosensitive glass bulb 3mm is used. The bulb contains a special liquid hermetically sealed in a glass capsule.

TECHNICAL DATA

Nominal "K" Factor	5.6 (80 metric) and 8.0 (115 metric)
Thread Size	1/2" NPT and 3/4" NPT
Temperatures	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
Maximum Working Pressure	175psi (12bar)
Maximum Test Pressure	500psi (34,5bar)
Materials	Frame: Cooper Alloy Deflector: Cooper Alloy Screw: Cooper Alloy Bulb Seat: Copper Alloy Sealing Spring: Nickel Alloy Bulb: Glass, 5mm size
Reference	K5.6: GA1251 K8.0: GA2251
Finish¹	Bronze Chrome Polyester

1. Other Finishes available under request.

OPERATION

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.

INSTALLATION

Models GA1251 and GA2251 sprinklers are standard response sprinklers intended for installation as specified in NFPA13. They must also be installed with the Model **AB** Sprinkler Wrench specifically designed by AG Fire Sprinkler for use with these sprinklers.

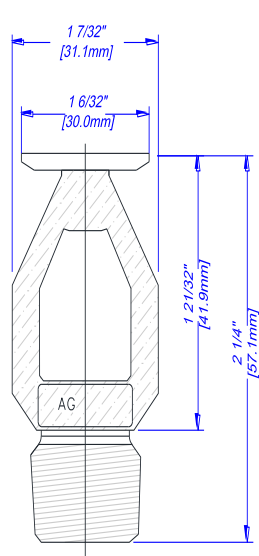
A leak tight ½" NPT (R1/2) sprinkler joint can be obtained with a torque of 8-18ft-lbs (10.8-24.4N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

The sprinklers come with an orange protection, to avoid breakage during assembly. Remove this protection once installed and made sure that everything is correct. The AG Sprinkler Wrenches are designed to install sprinklers with the protection still.

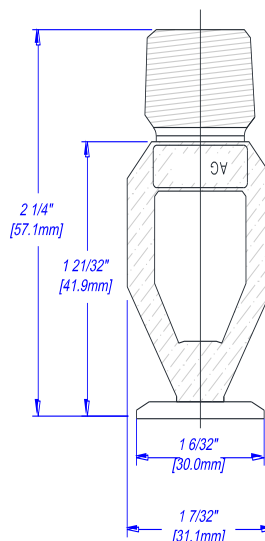
TEMPERATURE RATINGS

Classification	Sprinkler Temp.		Max. Ambient 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
High	286	141	225	107	Blue

DIMENSIONS



MONTANTE



COLGANTE

ORDERING INFORMATION

P/N	GAXXXX Y Z
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DESCRIPTION	CODE
K5.6	GA1251
K8.0	GA2251

Y	1	57°C	135°F
	2	68°C	155°F
	4	79°C	175°F
	5	93°C	200°F
	7	141°C	286°F

Z	1	BRASS
	2	CHROME
	3	WHITE RAL9003

Specify:

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