

## GA SERIES / MODEL GA-1211

Basic Sprinkler / Flat Spray Sprinkler  
Quick Response Sprinkler  
Pendent



Pendent

### PRODUCT DESCRIPTION

AG Fire Sprinkler Model GA-1211 Flat Spray Sprinklers are designed for installation in accordance with CEA 4001 or EN 12845 (Automatic Sprinkler Systems - Design, Installation and Maintenance). The spray pattern created by this sprinkler makes this an excellent choice for applications with lower clearance above the suspended open ceilings and in racks.

These sprinklers are used in applications where there are high and lower level sprinklers. The shield is to help prevent the lower level sprinklers from getting wet by the higher level sprinklers.

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

### TECHNICAL DATA

|                                 |                                                                               |
|---------------------------------|-------------------------------------------------------------------------------|
| <b>Nominal "K" Factor</b>       | 5,6 (80 metric)                                                               |
| <b>Thread Size</b>              | 1/2" NPT                                                                      |
| <b>Temperatures</b>             | 135°F (57°C)<br>155°F (68°C)<br>175°F (79°C)<br>200°F (93°C)<br>286°F (141°C) |
| <b>Maximum Working Pressure</b> | 175 psi (12 bar)                                                              |
| <b>Sprinkler Height</b>         | 2,26" (57,5 mm)                                                               |
| <b>Reference</b>                | Pendent: <b>GA1211</b>                                                        |
| <b>Finish</b>                   | Bronze                                                                        |

### 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

Model GA-1211 sprinklers are fast 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.

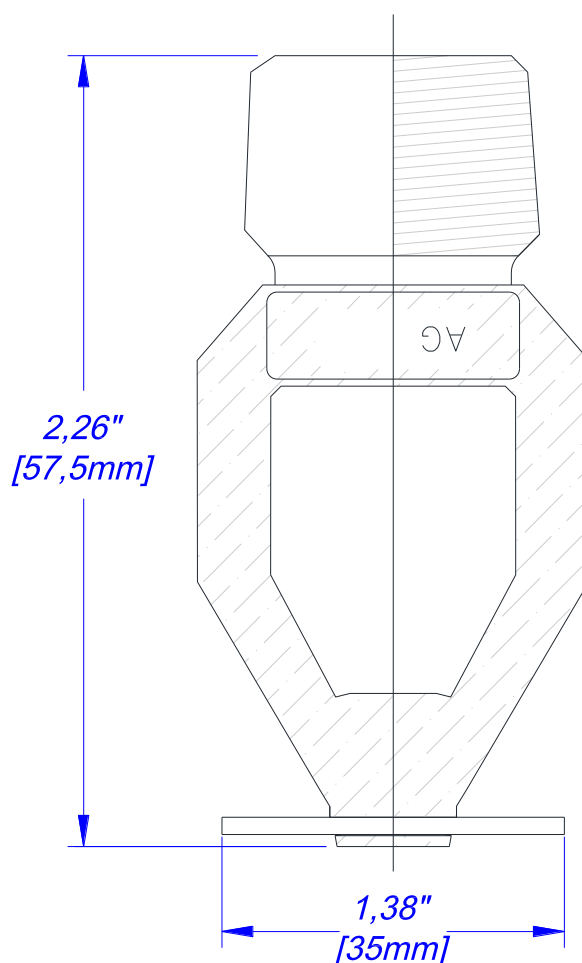
A leak tight ½" NPT (R1/2) sprinkler joint can be obtained with a torque of 8-18ft-lbs (10,8-24,4N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

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



## ORDERING INFORMATION

|            |                   |
|------------|-------------------|
| <b>P/N</b> | <b>GAXXXX Y Z</b> |
|------------|-------------------|

| DESCRIPTION | CODE   |
|-------------|--------|
| Pendant     | GA1211 |

|          |          |       |       |
|----------|----------|-------|-------|
| <b>Y</b> | <b>1</b> | 57°C  | 135°F |
|          | <b>2</b> | 68°C  | 155°F |
|          | <b>4</b> | 79°C  | 175°F |
|          | <b>5</b> | 93°C  | 200°F |
|          | <b>7</b> | 141°C | 286°F |

|          |          |       |
|----------|----------|-------|
| <b>Z</b> | <b>1</b> | BRASS |
|----------|----------|-------|

Specify:

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