



# AUTOMATIC SPRINKLERS GL SERIES INTERMEDIATE LEVEL UPRIGHT • PENDENT

## DESCRIPTION AND OPERATION

The Globe GL Series Intermediate Level Sprinklers are primarily designed for use in rack storage sprinkler systems, where their thermosensitive elements must be shielded from the water spray of higher elevation sprinklers which could operate earlier during a fire. The Globe GL Series Sprinkler is a low profile yet durable design which utilizes a frangible glass ampule as the thermosensitive element.

The Globe Intermediate Level Sprinklers are available in either upright or pendent styles, with 1/2" or 17/32" orifices, in several temperature ratings and with various finishes to meet customer requirements. Each unit is factory fitted with a water shield having a 3 25/32" diameter. Either style may be provided with sprinkler head guards for use where mechanical injury might be expected.

The heart of Globe's GL Series sprinkler proven actuating assembly is a hermetically sealed frangible glass ampule that contains a precisely measured amount of fluid. When heat is absorbed, the liquid within the bulb expands increasing the internal pressure. At the prescribed temperature the internal pressure within the ampule exceeds the strength of the glass causing the glass to shatter. This results in water discharge which is distributed in an approved pattern depending upon the deflector style used.



**UPRIGHT**



**PENDENT**

## TECHNICAL DATA

- See reverse side for Approvals and Specifications.
- Temperature Ratings - 135°F (57°C), 155°F (68°C), 175°F (79°C), 200°F (93°C), 286°F (141°C).
- Water Working Pressure Rating - 175 psi (12 Bars).
- Factory tested hydrostatically to 500 psi (34 Bars).
- Maximum low temperature glass bulb rating is -67°F (-55°C).
- Frame - bronze • Deflector - brass • Screw - brass
- Bulb seat - copper • Spring - nickel alloy • Seal - teflon
- Bulb - glass with glycerin solution, 5mm size.
- Shield - brass or steel - 3 25/32" diameter.

## • SPRINKLER TEMPERATURE RATING/CLASSIFICATION and COLOR CODING

| CLASSIFICATION | AVAILABLE SPRINKLER TEMPERATURES |           | BULB COLOR   | N.F.P.A. MAXIMUM CEILING TEMPERATURE |       |
|----------------|----------------------------------|-----------|--------------|--------------------------------------|-------|
| ORDINARY       | 135°F/155°F                      | 57°C/68°C | ORANGE/RED   | 100°F                                | 38°C  |
| INTERMEDIATE   | 175°F/200°F                      | 79°C/93°C | YELLOW/GREEN | 150°F                                | 66°C  |
| HIGH           | 286°F                            | 141°C     | BLUE         | 225°F                                | 107°C |

# ***AUTOMATIC SPRINKLERS GL SERIES INTERMEDIATE LEVEL UPRIGHT • PENDENT***

## ***SPECIFICATIONS***

| NOMINAL "K" FACTOR |              | THREAD SIZE | LENGTH           | FINISHES*      |
|--------------------|--------------|-------------|------------------|----------------|
| 5.6                | (80 metric)  | 1/2" NPT    | 2 1/4" (5.7 cm)  | Factory Bronze |
| 7.8                | (111 metric) | 1/2" NPT    | 2 1/4" (5.7 cm)  |                |
| 8.1                | (116 metric) | 3/4" NPT    | 2 7/16" (6.2 cm) |                |

NOTE: METRIC CONVERSIONS ARE APPROXIMATE.

\*OTHER FINISHES AVAILABLE ON REQUEST.

## ***APPROVALS***

| STYLE   | SIN MODEL | K FACTOR | 135°F<br>57°C | 155°F<br>68°C | 175°F<br>79°C | 200°F<br>93°C | 286°F<br>141°C | cULus | FM | NYC - DOB<br>MEA 101-92-E |
|---------|-----------|----------|---------------|---------------|---------------|---------------|----------------|-------|----|---------------------------|
| UPRIGHT | GL5663    | 5.6      | X             | X             | X             | X             | X              | X     | X  | X                         |
|         | GL8163    | 7.8*     | X             | X             | X             | X             | X              | X     | X  | X                         |
|         | GL8166    | 8.1      | X             | X             | X             | X             | X              | X     | X  | X                         |
| PENDENT | GL5672    | 5.6      | X             | X             | X             | X             | X              | X     | X  | X                         |
|         | GL8172    | 7.8*     | X             | X             | X             | X             | X              | X     | X  | X                         |
|         | GL8158    | 8.1      | X             | X             | X             | X             | X              | X     | X  | X                         |

\* 17/32" X 1/2" NPT.

## ***ORDERING INFORMATION***

### **SPECIFY**

- Quantity • Model Number • Style
- Orifice • Thread Sizes • Temperature
- Finishes desired
- Quantity - Wrenches - P/N 325390 (1/2");  
P/N 312366 (L.O.)

## ***GLOBE® PRODUCT WARRANTY***

Globe agrees to repair or replace any of its own manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).



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