



**QUICK RESPONSE
HIGH PRESSURE
AUTOMATIC SPRINKLERS
MODEL GL BULB SPRAY SERIES
UPRIGHT • PENDENT**

DESCRIPTION AND OPERATION

The Globe Quick Response High Pressure Model GL Series Sprinkler is a low profile yet durable design which utilizes a 3mm frangible glass ampule as the thermosensitive element. This provides sprinkler operation approximately six times faster than ordinary sprinklers, and has been evaluated for use where static or flowing pressures are 300 psi or below. While the Quick Response Sprinkler provides an aesthetically pleasing appearance, it can be installed wherever standard spray sprinklers are specified when allowed by the applicable standards. It offers the additional feature of greatly increased safety to life and is available in various styles, orifices, temperature ratings and finishes to meet many varying design requirements. Quick Response Sprinklers should be used advisedly and under the direction of approving authorities having jurisdiction.

The heart of Globe's Model 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.



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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 - 300 psi (21 Bars).
- Factory tested hydrostatically to 850 psi (59 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 alcohol based solution, 3mm size.

• 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 |

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SPECIFICATIONS

| ORIFICE SIZE | | NOMINAL "K" FACTOR | | THREAD SIZE | LENGTH | FINISHES |
|--------------|---------|--------------------|--------------|-------------|------------------|--------------------------------------|
| 1/2" | (15 mm) | 5.6 | (80 metric) | 1/2" NPT | 2 1/4" (5.7 cm) | Factory Bronze Chrome |
| 17/32" | (20 mm) | 7.8 | (111 metric) | 1/2" NPT | *2 1/4" (5.7 cm) | White Polyester+ Black Polyester+ |
| 17/32" | (20 mm) | 8.1 | (116 metric) | 3/4" NPT | 2 7/16" (6.2 cm) | Lead Coated** |

NOTE: METRIC CONVERSIONS ARE APPROXIMATE.

* EXCLUDING PINTLE.

** FINISHES AVAILABLE ON SPECIAL ORDER.

+ AVAILABLE AS cULus LISTED CORROSION RESISTANT WHEN SPECIFIED ON ORDER.

APPROVALS

| STYLE | SIN MODEL | K FACTOR | 135°F 57°C | 155°F 68°C | 175°F 79°C | 200°F 93°C | 286°F 141°C | cULus |
|---------|-----------|----------|---------------|---------------|---------------|---------------|----------------|-------|
| UPRIGHT | GL5616 | 5.6 | X | X | X | X | X | X |
| | GL8116 | 7.8* | X | X | X | X | X | X |
| | GL8119 | 8.1 | X | X | X | X | X | X |
| PENDENT | GL5602 | 5.6 | X | X | X | X | X | X |
| | GL8102 | 7.8* | X | X | X | X | X | X |
| | GL8107 | 8.1 | 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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