



**QUICK RESPONSE  
AUTOMATIC SPRINKLERS  
GL SERIES  
UPRIGHT • PENDENT  
VERTICAL SIDEWALL  
HORIZONTAL SIDEWALL  
CONVENTIONAL (OLD STYLE)**

**DESCRIPTION AND OPERATION**

The Globe Quick Response GL Series Sprinklers are 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. 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.

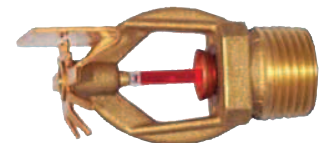
The heart of Globe's GL Series sprinkler proven actuating assembly is a hermetically sealed frangible glass ampule that contains a precisely measured amount of fluid. When heat is absorbed, the liquid within the bulb expands increasing the internal pressure. At the prescribed temperature the internal 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.



**QUICK RESPONSE  
UPRIGHT      CONVENTIONAL**



**QUICK RESPONSE  
PENDENT      VERTICAL  
SIDEWALL**



**QUICK RESPONSE  
HORIZONTAL SIDEWALL**

**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 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 |           |
|----------------|----------------------------------|-----------|--------------|--------------------------------------|-----------|
|                | 135°F/155°F                      | 57°C/68°C |              | 175°F/200°F                          | 79°C/93°C |
| 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     |

# QUICK RESPONSE

## AUTOMATIC SPRINKLERS

### GL SERIES

#### UPRIGHT • PENDENT • VERTICAL SIDEWALL

#### HORIZONTAL SIDEWALL • CONVENTIONAL (OLD STYLE)

### SPECIFICATIONS

| NOMINAL "K" FACTOR |              | THREAD SIZE | LENGTH <sup>1</sup> | FINISHES   |
|--------------------|--------------|-------------|---------------------|--|
| 2.8                | (39 metric)  | 1/2" NPT    | 2 1/4" (5.7 cm)     | Factory Bronze<br>Bright Chrome<br>Satin Chrome <sup>2</sup><br>White Polyester <sup>3</sup><br>Black Polyester <sup>2,3</sup><br>Lead Coated <sup>2,3</sup> |
| 4.2                | (59 metric)  | 1/2" NPT    | 2 1/4" (5.7 cm)     |  |
| 5.6                | (80 metric)  | 1/2" NPT    | 2 1/4" (5.7 cm)     |  |
| 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.

<sup>1</sup> HORIZONTAL SIDEWALL IS 2 9/16".

<sup>2</sup> FINISHES AVAILABLE ON SPECIAL ORDER.

<sup>3</sup> AVAILABLE AS cULus LISTED CORROSION RESISTANT WHEN SPECIFIED ON ORDER.

### 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 | F.M. | LPC | CE  | NYC - DOB MEA<br>101-92-E |
|--------------------------|-----------|----------|---------------|---------------|---------------|---------------|----------------|-------|------|-----|-----|---------------------------|
| UPRIGHT                  | GL2815    | 2.8      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | X                         |
|                          | GL4215    | 4.2      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | X                         |
|                          | GL5615    | 5.6      | X             | X             | X             | X             | X              | X     | X    | X   | X   | X                         |
|                          | GL8115    | 7.8*     | X             | X             | X             | X             | X              | X     | ---  | --- | --- | X                         |
|                          | GL8118    | 8.1      | X             | X             | X             | X             | X              | X     | X    | X   | X   | X                         |
| PENDENT                  | GL2801    | 2.8      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | X                         |
|                          | GL4201    | 4.2      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | X                         |
|                          | GL5601    | 5.6      | X             | X             | X             | X             | X              | X     | X    | X   | X   | X                         |
|                          | GL8101    | 7.8*     | X             | X             | X             | X             | X              | X     | X    | --- | --- | X                         |
|                          | GL8106    | 8.1      | X             | X             | X             | X             | X              | X     | X    | X   | X   | X                         |
| VERTICAL SIDEWALL†       | GL5632    | 5.6      | X             | X             | X             | X             | X              | X     | X    | --- | --- | ---                       |
|                          | GL8133    | 8.1      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | ---                       |
| HORIZONTAL SIDEWALL §    | GL2826    | 2.8      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | X                         |
|                          | GL4226    | 4.2      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | X                         |
|                          | GL5626    | 5.6      | X             | X             | X             | X             | X              | X     | X    | --- | --- | X                         |
|                          | GL8127    | 8.1      | X             | X             | X             | X             | X              | X     | ---  | --- | --- | ---                       |
| CONVENTIONAL (OLD STYLE) | GL5624    | 5.6      | X             | X             | X             | X             | X              | ---   | ---  | X   | X   | ---                       |
|                          | GL8125    | 8.1      | X             | X             | X             | X             | X              | ---   | ---  | X   | X   | ---                       |

\*1/2" NPT

† VERTICAL SIDEWALL SPRINKLER cULus LISTED FOR LIGHT HAZARD ONLY.

PENDENT VERTICAL SIDEWALL cULus LISTED FOR 6' MIN. SPACING.

UPRIGHT VERTICAL SIDEWALL cULus LISTED FOR 9' MIN. SPACING.

§ HORIZONTAL SIDEWALL cULus LISTED FOR DEFLECTOR 4" TO 12" BELOW THE CEILING, FM APPROVED 4" TO 6".

### 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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