



**QUICK RESPONSE  
AUTOMATIC SPRINKLERS  
GL SERIES 10MM  
UPRIGHT • PENDENT  
RECESSED PENDENT**

**DESCRIPTION AND OPERATION**

The Globe Quick Response GL Series 10mm 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 10mm 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, 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.

The sprinkler and escutcheon are not factory assembled. Assembly is done in the field.

**TECHNICAL DATA**

- See reverse side for Approvals and Specifications.
- Temperature Ratings - 57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
- Water Working Pressure Rating - 12 Bars
- Factory tested hydrostatically to 34 Bars
- Maximum low temperature glass bulb rating is -55°C (-65°F)
- 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	57°C/68°C	135°F/155°F	ORANGE/RED	38°C	100°F
INTERMEDIATE	79°C/93°C	175°F/200°F	YELLOW/GREEN	66°C	150°F
HIGH	141°C	286°F	BLUE	107°C	225°F



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**SPECIFICATIONS**

NOMINAL "K" FACTOR	THREAD SIZE	LENGTH	FINISHES
57 METRIC	10MM (ISO 7/1-R3/8)	5.7 CM	FACTORY BRONZE SATIN CHROME <sup>1</sup> BRIGHT CHROME WHITE POLYESTER <sup>2</sup> BLACK POLYESTER <sup>2</sup> LEAD COATED <sup>1</sup>

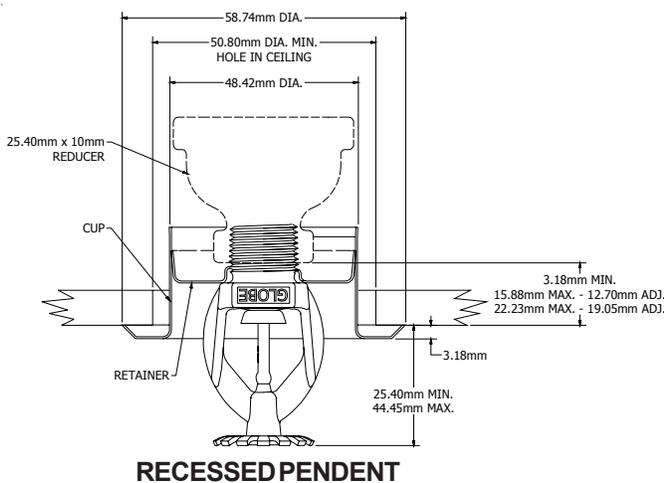
NOTE: METRIC CONVERSIONS ARE APPROXIMATE.

<sup>1</sup>FINISHES AVAILABLE ON SPECIAL ORDER.  
<sup>2</sup>AVAILABLE AS cULus LISTED CORROSION RESISTANT WHEN SPECIFIED ON ORDER.

**APPROVALS**

STYLE	SIN MODEL	K FACTOR	57°C 135°F	68°C 155°F	79°C 175°F	93°C 200°F	141°C 286°F	cULus
UPRIGHT	GL4221	57 METRIC	X	X	X	X	X	X
PENDENT RECESSED PENDENT	GL4202	57 METRIC	X	X	X	X	X	X

**CROSS SECTION**



**ORDERING INFORMATION**

**SPECIFY**

- Quantity • Model Number • Style
- Orifice • Thread Sizes • Temperature
- Quantity - Wrenches - P/N 325390

**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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