



**QUICK RESPONSE  
AUTOMATIC SPRINKLERS  
GL SERIES  
INTERMEDIATE LEVEL  
UPRIGHT • PENDENT**

## DESCRIPTION AND OPERATION

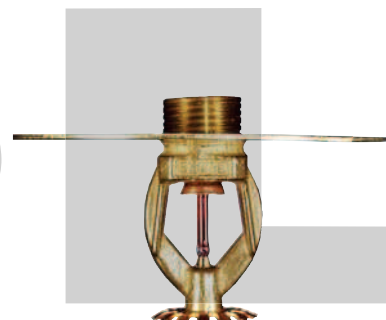
The Globe Quick Response GL Series Intermediate Level Sprinklers are primarily designed for use in rack storage sprinkler systems, where their thermosensitive elements must be shielded from the water spray of higher elevation sprinklers which could operate earlier during a fire. The Globe GL Series Sprinkler is a low profile yet durable design which utilizes a 3mm frangible glass ampule as the thermosensitive element. This provides sprinkler operation approximately six times faster than ordinary sprinklers. The Quick Response Sprinkler can be installed wherever standard intermediate level sprinklers are specified. Quick Response Sprinklers should be used advisedly and under the direction of approving authorities having jurisdiction and in accordance with their listings.

The Globe Intermediate Level Sprinklers are available in either upright or pendent styles, with 1/2" or 17/32" orifices, in various 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.



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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 - 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.
- 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



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## SPECIFICATIONS

NOMINAL "K" FACTOR		THREAD SIZE	LENGTH	FINISHES <sup>1</sup>
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 57°C	155°F 68°C	175°F 79°C	200°F 93°C	286°F 141°C	cULus	FM
UPRIGHT	GL5617	5.6	X	X	X	X	X	X	X
	GL8117	7.8*	X	X	X	X	X	X	X
	GL8120	8.1	X	X	X	X	X	X	X
PENDENT	GL5612	5.6	X	X	X	X	X	X	X
	GL8112	7.8*	X	X	X	X	X	X	X
	GL8108	8.1	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).