



**QUICK RESPONSE  
HIGH PRESSURE  
AUTOMATIC SPRINKLERS  
GL 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**

NOMINAL "K" FACTOR	THREAD SIZE	LENGTH	FINISHES
5.6 (80 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	Factory Bronze
8.0 (115 metric) <sup>3</sup>	1/2"NPT (15mm)	2 1/4" (5.7cm)	Chrome
8.0 (115 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	White Polyester <sup>2</sup>
			Black Polyester <sup>1,2</sup>

**NOTE:** METRIC CONVERSIONS ARE APPROXIMATE.

<sup>1</sup>FINISHES AVAILABLE ON SPECIAL ORDER.

<sup>2</sup>AVAILABLE AS cULus LISTED COROSION RESISTANT WHEN SPECIFIED ON ORDER.

<sup>3</sup>FOR RETROFIT PURPOSES ONLY

**APPROVALS**

STYLE	SIN MODEL	K FACTOR	HAZARD <sup>1</sup>	TEMPERATURE					cULus
				135°F (57°C)	155°F (68°C)	175°F (79°C)	200°F (93°C)	286°F (141°C)	
UPRIGHT	GL5616	5.6	LH/OH	X	X	X	X	X	X
	GL8116	8.0*	LH/OH	X	X	X	X	X	X
	GL8119	8.0	LH/OH	X	X	X	X	X	X
PENDENT	GL5602	5.6	LH/OH	X	X	X	X	X	X
	GL8102	8.0*	LH/OH	X	X	X	X	X	X
	GL8107	8.0	LH/OH	X	X	X	X	X	X

<sup>1</sup>SPRINKLERS SHALL BE LIMITED AS PER THE REQUIREMENTS OF NFPA13 AND ANY OTHER RELATED DOCUMENTS.

OH: ORDINARY HAZARD

LH: LIGHT HAZARD

\*1/2" NPT FOR RETROFIT PURPOSES ONLY

**ORDERING INFORMATION**  
**SPECIFY**

- Quantity • Model Number • Style • Orifice
- Thread Size • 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).

