



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

**DESCRIPTION AND OPERATION**

The Globe GL Series Sprinkler is a low profile yet durable design which utilizes a frangible glass ampule as the thermosensitive element. While the sprinkler provides an aesthetically pleasing appearance, it can be installed wherever standard spray sprinklers are specified. This sprinkler series is available in various styles, orifices, temperature ratings and finishes to meet varying design requirements.

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.

**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), 360°F (182°C)
- 500°F (260°C) Available Upon Request Without Approvals
- 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
- Lodgement Spring - stainless steel
- Bulb seat - copper • Spring - nickel alloy • Seal - teflon
- Bulb - glass with glycerin solution, 5mm size



UPRIGHT



CONVENTIONAL



PENDENT



VERTICAL SIDEWALL



HORIZONTAL SIDEWALL



LPC/CE HORIZONTAL SIDEWALL

**• 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
EXTRA HIGH	360°F	182°C	MAUVE	300°F	149°C
ULTRA HIGH	500°F	260°C	BLACK	475°F	246°C

# STANDARD 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 Chrome White Polyester <sup>3</sup> Black Polyester <sup>2,3</sup> Wax Coated <sup>2,3,4</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)	

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.

<sup>4</sup> WAX COATING cULus LISTED UP TO 200°F ONLY.

## APPROVALS

STYLE	SIN MODEL	K FACTOR	HAZARD <sup>1</sup>	135°F 57°C	155°F 68°C	175°F 79°C	200°F 93°C	286°F 141°C	**360°F 182°C	*500°F 260°C	cULus	FM	LPC	CE	NYC - DOB MEA 101-92-E
UPRIGHT	GL2861	2.8	LH	X	X	X	X	X	X	X	X	---	---	---	X
	GL4261	4.2	LH	X	X	X	X	X	X	X	X	---	---	---	X
	GL5661	5.6	ALL	X	X	X	X	X	X	X	X	X	X	X	X
	GL8161	7.8†	ALL	X	X	X	X	X	X	X	X	---	---	---	X
	GL8164	8.1	ALL	X	X	X	X	X	X	X	X	X	X	X	X
PENDENT	GL2851	2.8	LH	X	X	X	X	X	X	X	X	---	---	---	X
	GL4251	4.2	LH	X	X	X	X	X	X	X	X	---	---	---	X
	GL5651	5.6	ALL	X	X	X	X	X	X	X	X	X	X	X	X
	GL8151	7.8†	ALL	X	X	X	X	X	X	X	X	X	---	---	X
	GL8156	8.1	ALL	X	X	X	X	X	X	X	X	X	X	X	X
VERTICAL SIDEWALL‡	GL5675	5.6	LH	X	X	X	X	X	X	X	X	X	---	---	X
	GL8176	8.1	LH	X	X	X	X	X	X	X	X	---	---	---	X
HORIZONTAL SIDEWALL	GL2870§	2.8	LH	X	X	X	X	X	X	X	X	---	---	---	X
	GL4270§	4.2	LH	X	X	X	X	X	X	X	X	---	---	---	X
	GL5670§	5.6	LH/OH	X	X	X	X	X	X	X	X	X	---	---	X
	GL5671¶	5.6	LH/OH	X	X	X	X	X	X	X	---	---	X	X	---
	GL8171§	8.1	LH/OH	X	X	X	X	X	X	X	X	---	---	---	---
CONVENTIONAL (OLD STYLE)	GL5668	5.6	LH/OH	X	X	X	X	X	X	X	---	---	X	X	---
	GL8169	8.1	LH/OH	X	X	X	X	X	X	X	---	---	X	X	---

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

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

¶ INSTALL IN ACCORDANCE TO BS5306 AND ANY OTHER RELATED DOCUMENTS.

‡ PENDENT VERTICAL SIDEWALL 6' MIN. SPACING.

† UPRIGHT VERTICAL SIDEWALL UL 9' MIN. SPACING.

\* 500°F AVAILABLE UPON REQUEST WITH NO APPROVALS.

\*\* 360°F NO FM APPROVALS

ALL: ALL HAZARDS

OH: ORDINARY HAZARD

LH: LIGHT HAZARD

† 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 (3/4")



JULY 2012

## 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).

4077 AIRPARK DRIVE, STANDISH, MICHIGAN 48658

989-846-4583

1-800-248-0278

FAX 989-846-9231

www.globesprinkler.com

PRINTED U.S.A.

BULLETIN GL5661, REV. #5