



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

DESCRIPTION AND OPERATION

The Globe Quick Response Series GL-QR 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 Series GL-QR 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)
- 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 Wire - stainless steel • Bulb seat - copper
- Spring - nickel alloy • Seal - teflon
- Bulb - glass with alcohol based solution, 3mm size



**QUICK RESPONSE
SERIES GL-QR
UPRIGHT**



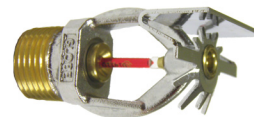
**QUICK RESPONSE
SERIES GL-QR/CNV
CONVENTIONAL**



**QUICK RESPONSE
SERIES GL-QR
PENDENT**



**QUICK RESPONSE
SERIES GL-QR/SW
VERTICAL
SIDEWALL**



**QUICK RESPONSE
HORIZONTAL
SIDEWALL
SERIES GL-QR/SW**



**QUICK RESPONSE
LPCB/CE
HORIZONTAL
SIDEWALL
SERIES GL-QR/SW**

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

QUICK RESPONSE AUTOMATIC SPRINKLERS UPRIGHT PENDENT VERTICAL SIDEWALL HORIZONTAL SIDEWALL CONVENTIONAL (OLD STYLE)

SPECIFICATIONS

NOMINAL "K" FACTOR	THREAD SIZE	LENGTH ¹	FINISHES
2.8 (40 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	Factory Bronze Chrome White Polyester ³ Black Polyester ^{2,3}
4.2 (60 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	
5.6 (80 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	
8.0 (115 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	
8.0 (115 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	

NOTE: METRIC CONVERSIONS ARE APPROXIMATE.

¹HORIZONTAL SIDEWALL IS 2 9/16".

²FINISHES AVAILABLE ON SPECIAL ORDER.

³AVAILABLE AS cULus LISTED CORROSION RESISTANT WHEN SPECIFIED ON ORDER.

LISTINGS/APPROVALS

STYLE	SIN	K FACTOR	HAZARD ¹	TEMPERATURE					cULus	FM	LPCB ²	CE	NYC - DOB MEA 101-92-E
				135°F (57°C)	155°F (68°C)	175°F (79°C)	200°F (93°C)	286°F (141°C)					
UPRIGHT	GL2815	2.8	LH	X	X	X	X	X	X	---	---	---	X
	GL4215	4.2	LH	X	X	X	X	X	X	---	---	---	X
	GL5615	5.6	LH/OH	X	X	X	X	X	X	X	X	X	X
	GL8115*	8.0* (1/2" NPT)	LH/OH	X	X	X	X	X	X	---	---	---	X
	GL8118	8.0	LH/OH	X	X	X	X	X	X	X	X	X	X
PENDENT	GL2801	2.8	LH	X	X	X	X	X	X	---	---	---	X
	GL4201	4.2	LH	X	X	X	X	X	X	---	---	---	X
	GL5601	5.6	LH/OH	X	X	X	X	X	X	X	X	X	X
	GL8101*	8.0* (1/2" NPT)	LH/OH	X	X	X	X	X	X	---	---	---	X
	GL8106	8.0	LH/OH	X	X	X	X	X	X	X	X	X	X
VERTICAL SIDEWALL [†]	GL5632	5.6	LH	X	X	X	X	X	X	X	---	---	---
	GL8133	8.0	LH	X	X	X	X	X	X	---	---	---	---
HORIZONTAL SIDEWALL	GL2826§	2.8	LH	X	X	X	X	X	X	---	---	---	X
	GL4226§	4.2	LH	X	X	X	X	X	X	---	---	---	X
	GL5626§	5.6	LH/OH	X	X	X	X	X	X	X	---	---	X
	GL5627‡	5.6	LH/OH	X	X	X	X	X	---	---	X	X	---
	GL8127§	8.0	LH/OH	X	X	X	X	X	X	---	---	---	---
CONVENTIONAL (OLD STYLE)	GL5624	5.6	LH/OH	X	X	X	X	X	---	---	X	X	---
	GL8125	8.0	LH/OH	X	X	X	X	X	---	---	---	X	---

¹SPRINKLERS 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 cULus LISTED FOR 6' MIN. SPACING.

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

OH: ORDINARY HAZARD

LH: LIGHT HAZARD

*1/2" NPT, FOR RETROFIT ONLY

² LPCB REF. NO. 147c/05

ORDERING INFORMATION SPECIFY

- Quantity • SIN • 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).



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GFS-100a (Formerly A-20)