



QUICK RESPONSE AUTOMATIC SPRINKLERS GL SERIES INTERMEDIATE LEVEL UPRIGHT • PENDENT

DESCRIPTION AND OPERATION

The Globe Quick Response Series GL-QR/ST/INT 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 Series GL-QR/ST/INT Sprinkler is a low profile yet durable design which utilizes a 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 5.6, 8.0*, 8.0, or 11.2 K-factor orifices, in several temperature ratings and with various finishes to meet customer requirements. The Upright style is factory fitted with a water shield having a 3 3/4" diameter. **The water shield for the pendent may be either factory fitted or installed in the field (see shield part numbers below).** Either style can be provided with sprinkler guards for use where mechanical injury might be expected. The Upright style may be provided with a one piece head guard and shield; when ordered as such (order as GL5615, GL8115, GL8118, or GL1123 with sprinkler guard part number 321406 (red) or 321407 (chrome)).

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.



**SERIES GL-QR/ST/INT
QUICK RESPONSE
UPRIGHT**



**SERIES GL-QR/ST/INT
QUICK RESPONSE
PENDENT**

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 - steel - 3 3/4" diameter

SHIELD PART NUMBERS	
1/2"NPT	3/4"NPT
325706	325707

• 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

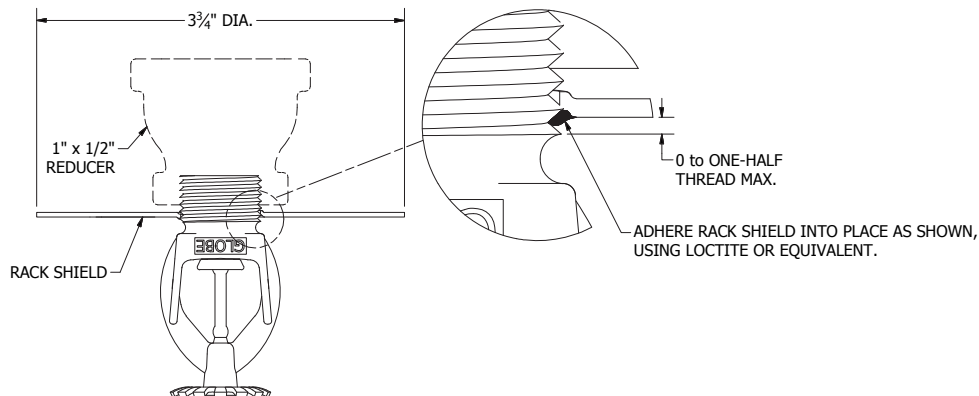
NOMINAL "K" FACTOR		THREAD SIZE	LENGTH	FINISHES
5.6	(80 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	Factory Bronze ¹
8.0	(115 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	
8.0	(115 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	
11.2	(160 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	

NOTE: METRIC CONVERSIONS ARE APPROXIMATE.
¹OTHER FINISHES AVAILABLE ON SPECIAL ORDER.

APPROVALS

STYLE	SIN (previous SIN)	"K" FACTOR	135°F (57°C)	155°F (68°C)	175°F (79°C)	200°F (93°C)	286°F (141°C)	cULus	FM	SHIELD P/N
UPRIGHT	GL5617	5.6	X	X	X	X	X	X	X	N/A
	GL8117	8.0*	X	X	X	X	X	X	---	
	GL8120	8.0	X	X	X	X	X	X	X	
	GL1124	11.2	---	X	X	X	X	X	---	
PENDENT	GL5601 (GL5612)	5.6	X	X	X	X	X	X	X	325706
	GL8101 (GL8112)	8.0*	X	X	X	X	X	X	---	325707
	GL8106 (GL8108)	8.0	X	X	X	X	X	X	X	
	GL1114 (GL1115)	11.2	---	X	X	X	X	X	---	

^{\$}THE WATER SHIELD FOR THE PENDENT MAY BE EITHER FACTORY FITTED OR INSTALLED IN THE FIELD, PLEASE SPECIFY ON ORDER.
¹SPRINKLERS SHALL BE LIMITED AS PER THE REQUIREMENTS OF NFPA13 AND ANY OTHER RELATED DOCUMENTS.
^{*}1/2"NPT; RETRO-FIT ONLY



NOTE: INSTALL RACK SHIELD ONTO SPRINKLER THREADS BEFORE SYSTEM INSTALL.

ORDERING INFORMATION SPECIFY

- Quantity • SIN • Style • Orifice
- Thread Size • Temperature • Finishes desired
- Quantity - Wrenches - P/N 325390 (1/2"); P/N 312366 (L.O.); P/N 333010 (E.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).