



# 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

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

## SPECIFICATIONS

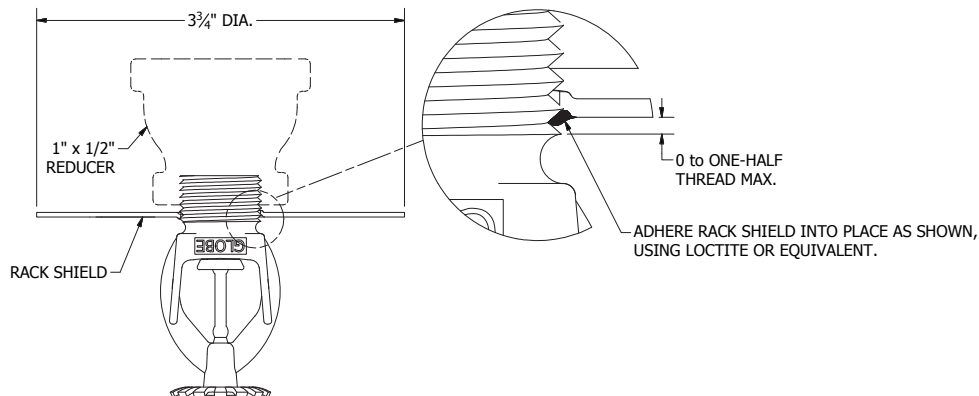
NOMINAL "K" FACTOR		THREAD SIZE	LENGTH	FINISHES
5.6	(80 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	Factory Bronze <sup>1</sup>
8.0	(115 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	
8.0	(115 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	
11.2	(160 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	

NOTE: METRIC CONVERSIONS ARE APPROXIMATE.  
<sup>1</sup>OTHER FINISHES AVAILABLE ON SPECIAL ORDER.

## APPROVALS

STYLE	SIN <i>(previous SIN)</i>	"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 <i>(GL5612)</i>	5.6	X	X	X	X	X	X	X	325706
	GL8101 <i>(GL8112)</i>	8.0*	X	X	X	X	X	X	---	325707
	GL8106 <i>(GL8108)</i>	8.0	X	X	X	X	X	X	X	
	GL1114 <i>(GL1115)</i>	11.2	---	X	X	X	X	X	---	

<sup>\$</sup>THE WATER SHIELD FOR THE PENDENT MAY BE EITHER FACTORY FITTED OR INSTALLED IN THE FIELD, PLEASE SPECIFY ON ORDER.  
<sup>1</sup>SPRINKLERS SHALL BE LIMITED AS PER THE REQUIREMENTS OF NFPA13 AND ANY OTHER RELATED DOCUMENTS.  
<sup>\*</sup>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).



**QUICK RESPONSE  
UPRIGHT • PENDENT  
AUTOMATIC SPRINKLERS  
FOR USE IN NFPA 13  
CMDA STORAGE APPLICATIONS**

**DESCRIPTION AND OPERATION**

The Globe Quick Response GL1114 Pendent and GL1123 Upright Sprinklers are intended for use in NFPA 13 Systems when installed in accordance with Control Mode Density Area protection criteria as specified in the NFPA 13 standard.

The GL1114 and GL1123 sprinklers have a low profile yet durable design which utilizes a 3mm frangible glass ampule as the thermosensitive element. While the sprinklers provide an aesthetically pleasing appearance, they serve to protect various area coverages. This sprinkler series is available in pendent, and upright styles, and several temperature ratings and finishes to meet varying design requirements.

The heart of Globe's GL1114 and GL1123 sprinklers 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.



**SERIES GL-QR/ST  
QUICK RESPONSE  
UPRIGHT  
GL1123**



**SERIES GL-QR/ST  
QUICK RESPONSE  
PENDENT  
GL1114**

**TECHNICAL DATA**

- See reverse side for Approvals and Specifications.
- Temperature Ratings -  
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

**• SPRINKLER TEMPERATURE RATING/CLASSIFICATION and COLOR CODING**

CLASSIFICATION	AVAILABLE SPRINKLER TEMPERATURES		BULB COLOR	N.F.P.A. MAXIMUM CEILING TEMPERATURE	
	155°F	68°C		100°F	38°C
ORDINARY	175°F/200°F	79°C/93°C	RED	150°F	66°C
INTERMEDIATE	286°F	141°C	YELLOW/GREEN	225°F	107°C
HIGH			BLUE		

**QUICK RESPONSE**  
**UPRIGHT • PENDENT**  
**AUTOMATIC SPRINKLERS**  
**FOR USE IN NFPA 13**  
**CMDA STORAGE APPLICATIONS**

**SPECIFICATIONS**

NOMINAL "K" FACTOR	THREAD SIZE	LENGTH	FINISHES
11.2 (160 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	Factory Bronze Chrome White Polyester <sup>3</sup> Black Polyester <sup>2,3</sup>

**NOTE:** METRIC CONVERSIONS ARE APPROXIMATE.

<sup>2</sup>FINISHES AVAILABLE ON SPECIAL ORDER.

<sup>3</sup>AVAILABLE AS cULus LISTED CORROSION RESISTANT WHEN SPECIFIED ON ORDER.

**APPROVALS**

STYLE	SIN	K FACTOR	HAZARD <sup>1</sup>	TEMPERATURE				cULus	NYC - DOB MEA 101-92-E	MIN. DISTANCE BETWEEN SPRINKLERS <i>Feet (Meters)</i>
				155°F (68°C)	175°F (79°C)	200°F (93°C)	286°F (141°C)			
UPRIGHT	GL1123	11.2	STORAGE	X	X	X	X	X	X	6 (1.8)
PENDENT	GL1114									

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

**ORDERING INFORMATION**  
**SPECIFY**

- Quantity • SIN • Style • Orifice
- Thread Size • Temperature • Finishes desired
- Quantity - Wrenches - P/N 333010

**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.

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# STANDARD RESPONSE AUTOMATIC SPRINKLERS GL SERIES INTERMEDIATE LEVEL UPRIGHT • PENDENT

## SPECIFICATIONS

NOMINAL "K" FACTOR	THREAD SIZE	LENGTH	FINISHES
5.6 (80 metric)	1/2"NPT (15mm)	2 1/4" (5.7cm)	Factory Bronze <sup>1</sup>
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.  
<sup>1</sup>OTHER FINISHES AVAILABLE ON SPECIAL ORDER.

## APPROVALS

STYLE	SIN (previous SIN)	"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)	cULus	FM	SHIELD P/N
UPRIGHT	GL5663	5.6	ALL	X	X	X	X	X	X	X	N/A
	GL8163	8.0*		X	X	X	X	X	X	---	
	GL8166	8.0		X	X	X	X	X	X	X	
	GL1168	11.2		---	X	X	X	X	X	**X	
PENDENT	GL5651 (GL5672)	5.6	ALL	X	X	X	X	X	X	X	325706
	GL8151 (GL8172)	8.0*	ALL	X	X	X	X	X	X	---	325706
	GL8156 (GL8158)	8.0	ALL	X	X	X	X	X	X	X	325707
	GL1160 (GL1161)	11.2	ALL	---	X	X	X	X	X	---	325707

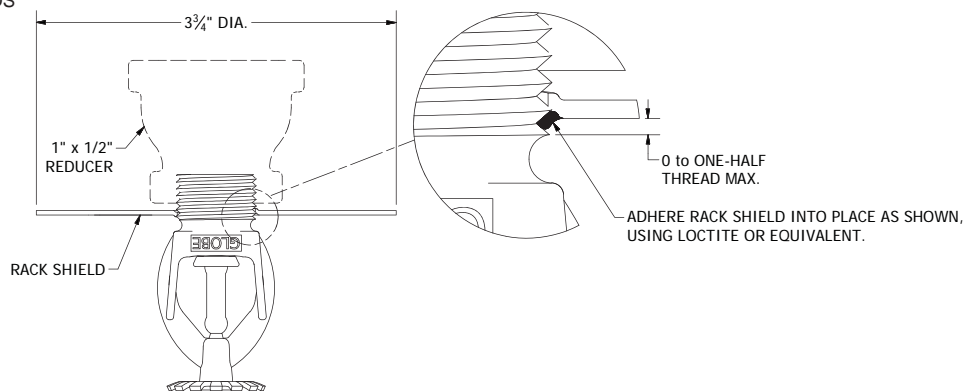
<sup>§</sup>THE WATER SHIELD FOR THE PENDENT MAY BE EITHER FACTORY FITTED OR INSTALLED IN THE FIELD, PLEASE SPECIFY ON ORDER.

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

\*\*NO FM APPROVALS FOR 175°F (79°C)

\*1/2"NPT; RETRO-FIT ONLY

ALL: ALL HAZARDS



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.

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GFS-430 (Formerly A-75)



# STANDARD RESPONSE UPRIGHT • PENDENT AUTOMATIC SPRINKLERS FOR USE IN NFPA 13 CMDA STORAGE APPLICATIONS

## DESCRIPTION AND OPERATION

The Globe Standard Response GL1160 Pendent and GL1167 Upright Sprinklers are intended for use in NFPA 13 Systems when installed in accordance with Control Mode Density Area protection criteria as specified in the NFPA 13 standard.

The GL1160 and GL1167 sprinklers have a low profile yet durable design which utilize a 5mm frangible glass ampule as the thermosensitive element. While the sprinklers provide an aesthetically pleasing appearance, they serve to protect various area coverages. This sprinkler series is available in pendent, and upright styles, and several temperature ratings and finishes to meet varying design requirements.

The heart of Globe's GL1160 and GL1167 sprinklers 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.



**SERIES GL-SR/ST  
STANDARD RESPONSE  
UPRIGHT  
GL1167**



**SERIES GL-SR/ST  
STANDARD RESPONSE  
PENDENT  
GL1160**

## TECHNICAL DATA

- See reverse side for Approvals and Specifications.
- Temperature Ratings - 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 glycerin solution, 5mm size

## • SPRINKLER TEMPERATURE RATING/CLASSIFICATION and COLOR CODING

CLASSIFICATION	AVAILABLE SPRINKLER TEMPERATURES		BULB COLOR	N.F.P.A. MAXIMUM CEILING TEMPERATURE	
ORDINARY	155°F	68°C	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

# STANDARD RESPONSE UPRIGHT • PENDENT AUTOMATIC SPRINKLERS FOR USE IN NFPA 13 CMDA STORAGE APPLICATIONS

## SPECIFICATIONS

NOMINAL "K" FACTOR	THREAD SIZE	LENGTH	FINISHES
11.2 (160 metric)	3/4"NPT (20mm)	2 7/16" (6.2cm)	Factory Bronze Chrome White Polyester <sup>3</sup> Black Polyester <sup>2,3</sup>

NOTE: METRIC CONVERSIONS ARE APPROXIMATE.

<sup>2</sup>FINISHES AVAILABLE ON SPECIAL ORDER.

<sup>3</sup>AVAILABLE AS cULus LISTED CORROSION RESISTANT WHEN SPECIFIED ON ORDER.

## APPROVALS

STYLE	SIN	HAZARD <sup>1</sup>	TEMPERATURE				cULus	*FM	NYC - DOB MEA 101-92-E	MIN. DISTANCE BETWEEN SPRINKLERS <i>Feet (Meters)</i>
			155°F (68°C)	175°F (79°C)	200°F (93°C)	286°F (141°C)				
UPRIGHT	GL1167	STORAGE	X	X	X	X	X	X	6 (1.8)	
PENDENT	GL1160	STORAGE	X	X	X	X	X	X		

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

\*NO FM APPROVALS FOR 175°F (79°C).

## ORDERING INFORMATION SPECIFY

- Quantity • SIN • Style • Orifice
- Thread Size • Temperature • Finishes desired
- Quantity - Wrenches - P/N 333010

## GLOBE® PRODUCT WARRANTY

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