



Features

- Glass bulb
- Standard Spary Pattern
- K-factor 11.2
- Standard Response

Description

LIFECO Standard response sprinklers are thermo sensitive glass bulb sprinklers available in different finishes and temperature ratings to meet design requirements. These sprinklers are standard spray pattern to meet approval agencies requirement. Especially, the Nickel-Chrome plated sprinklers are decorative and attractive, so it is well matched to customer interior decoration. In addition, Nickel-Chrome plating might be utilized to extend the life of copper alloy sprinkler, although it has passed the standard corrosion test. LIFECO sprinklers may be ordered and/or used as open sprinklers. (glass bulb and bulb cap assembly removed)

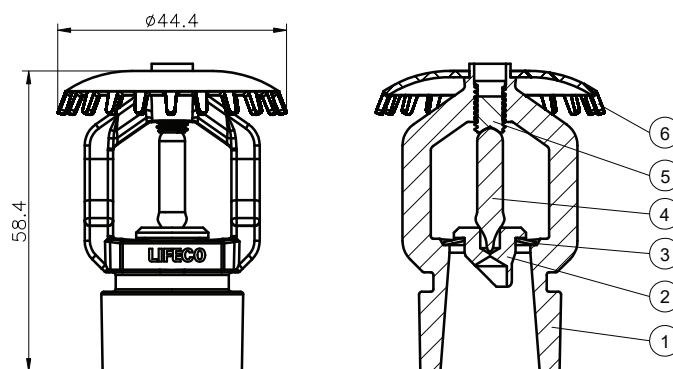
Technical & Environmental Specification

Minimum Operating Pressure	7 psi (0.5 bar)
Maximum Working Pressure	175 psi (12 bar)
K-Factor (Discharge Coefficient)	K = 11.2 GPM/psi ^{1/2} (160 LPM/bar ^{1/2})
Temperature Rating	155°F/ 200° (68°C / 93°C)
Leakage Test at Factory	30Kgf/cm ² (0.3Mpa, 29.4bar, 426.7 psi)

Material

Frame	Brass
Deflector	Brass
Spring Seat	Ni-Be alloy, coated on both sides with Teflon Tape
Bulb	Glass
Bulb Cap	Brass
Screw	Brass

Design



UPRIGHT

1-FRAME 2-BUBL CAP 3-SPRING SEAT 4-GLASS
BUBL 5-SCREW 6-DEFLECTOR

Sprinkler Temperature Ratings & Finishes

Sprinkler Temperature Classification	Sprinkler Nominal Temperature Rating ¹	Maximum Ambient Ceiling Temperature ²	Bulb Color
Ordinary	155°C(68°C)	100 °F (38°C)	Red
Intermediate	200 °F (93°C)	150 °F (65°C)	Green
OPEN			
Sprinkler Finishes : Brass, Nickel-Chrome, White Polyester			
Note			

1. The sprinkler temperature rating is stamped on the deflector.
2. Based on NFPA-13. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards.



Approval Chart

Model	Thread Size		Nominal K-Factor		Overall Length		Listings and Approvals
	PT	NPT	U.S.	Metric	Inches	mm	
LF510	3/4"	3/4"	11.2	160	2.23	58.4	B1, D1

Approved Temperature Ratings

A - 135 °F (57°C)
B - 155 °F (68°C)
C - 175 °F (79°C)
D - 200 °F (93°C)
E - 286 °F (141 °C)

Approved Finishes

1- Brass, Nickel-Chrome, White Polyester

Installation Details

The LIFECO sprinklers are intended for fire protection systems designed in accordance with the standard installation rules of the applicable listings or approval agency. (eg., NFPA 13 or FM's Loss Prevention Data Sheets).

Note.

Do not install any bulb type sprinkler if the bulb is cracked or there is a loss of fluid from the bulb. And with the sprinkler held horizontally, a small air bubble should be present.

The sprinkler joint should be obtained with maximum torque of 28.5 Nm (21 ft-lbs)

Inspections, Tests and Maintenance

Automatic Sprinklers must never be shipped or stored where their temperature will exceed 39°C and they must never be painted, plated, coated or otherwise altered after leaving factory. Modified sprinklers must be replaced. Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the sprinklers both before and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb.

Operation

When the rated temperature is reached, the fluid which is contained in the glass bulb expands sufficiently to shatter the glass bulb, releasing the bulb cap and spring seat assembly. Water flowing through the sprinkler orifice and strikes the deflector forming a intended spray pattern to extinguish or control the fire.

In line with our policy of continuous product improvement LIFECO reserves the right to modify specifications without prior notice.

Edmund House 12-22 Newhall Street Birmingham, B3 3AS, United Kingdom | T +44 1902 798 706 F +44 1902 798 679 | E sales@lifeco-uk.com | www.lifeco-uk.com

2



Water Spray Pattern

