



DESCRIPTION & OPERATION

- 1/2" Sidewall, Upright, Pendent sprinkler, Standard/Quick Response, is designed for use in automatic sprinkler systems per the installation standard (NFPA13). The temperature response is standard response (5mm glass bulb) and fast response (3mm glass bulb).
- When heat is absorbed, the the thermal-sensitive liquid within the bulb expands, increasing the internal pressure. When the internal pressure, it will cause the glass to shatter. This will result in the water discharge, which is distributed in an approved pattern, depending on the deflector style used.

TECHNICAL SPECIFICATION

Style	Pendent, Upright, Sidewall
K Factor gpm/(psi) ^{1/2} (L ³ /min(bar) ^{1/2})	5.6 (80)
Nominal Thread Size	1/2" NPT OR 1/2" BSPT
Max. Working Pressure	175 PSI (12bar)
Factory Testing Pressure	500 PSI (35bar)
Min. Operating Pressure	7 PSI (0.5 bar)
Finishing	Brass or Chrome Plated or White Plated Available
*Chrome Plated as Default	

TEMPERATURE RATING

Model Number	Temperature	Classification	Bulb Color
LF640,LF641,LF610,LF611,LF620,LF621	135°F/57°C	ORDINARY	ORANGE
LF640,LF641,LF610,LF611,LF620,LF621	155°F/68°C	ORDINARY	RED
LF640,LF641,LF610,LF611,LF620,LF621	175°F/79°C	INTERMEDIATE	YELLOW
LF640,LF641,LF610,LF611,LF620,LF621	200°F/93°C	INTERMEDIATE	GREEN
LF640,LF641,LF610,LF611,LF620,LF621	286°F/141°C	HIGH	BLUE

SPRINKLER MATERIALS

BULB	Glass with Glycerin Solution JOB G5 or Day-impex-937 for LF640,LF610,LF620 JOB F3 or Day-impex-941 for LF641,LF611,LF621
LOADING SCREW	Brass UNS-28000
SEAL	Brass UNS-28000
FRAME	Brass UNS-28000
SEAL WASHER	Washer, Coated on Both Sides, and Applied with Teflon Tape
NOMINAL BULB DIAMETER	Standard Response 5.0mm, Quick Response 3.0mm

DISCHARGE COEFFICIENT “ K ”

- Sprinklers are rated for use at a maximum service pressure of 175 psig (12 bar).

$$K=Q/P^{1/2}$$

In which:

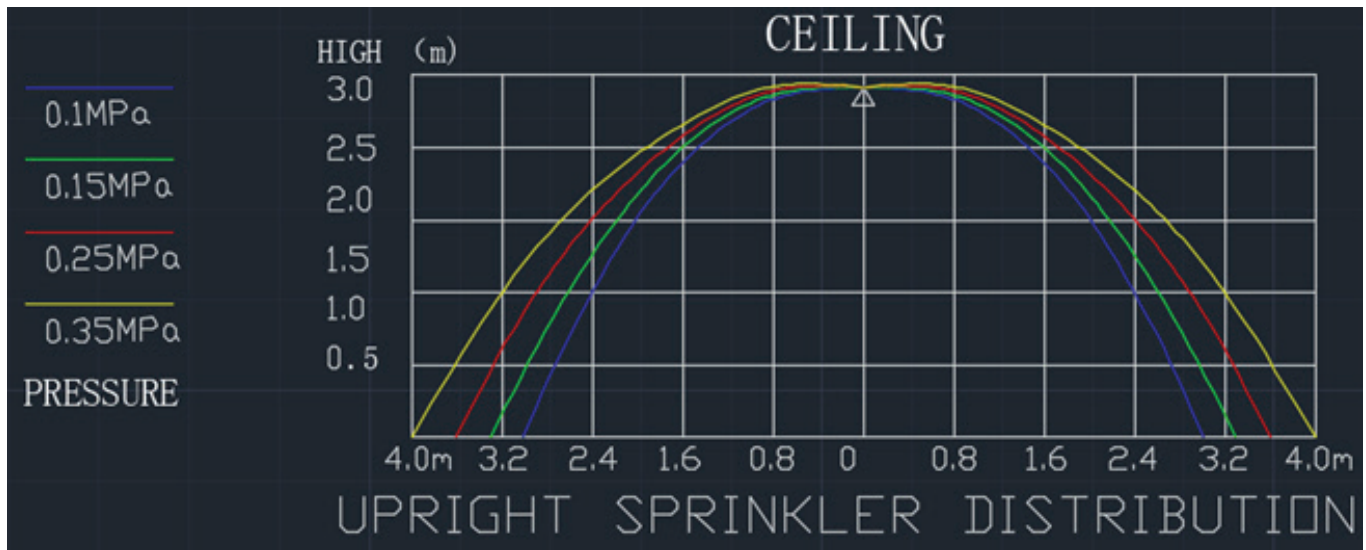
Q — The flow in gallons per minute

K — Discharge Coefficient, K=5.6 (80)

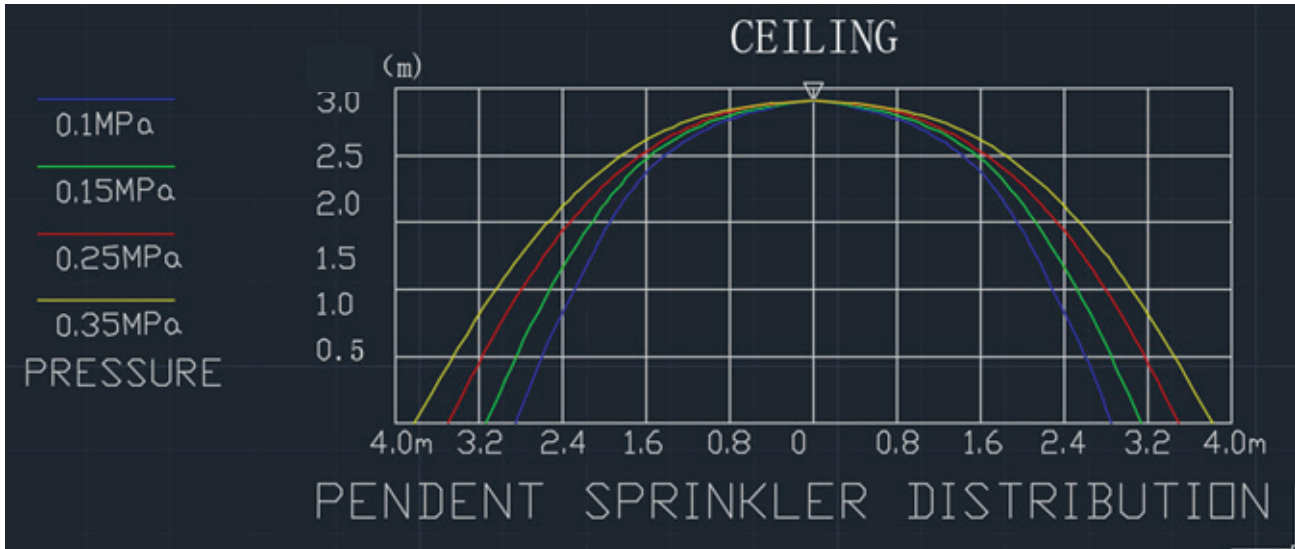
P — The pressure in pounds per square inch gauge (psig) .

DISTRIBUTION FIGURE

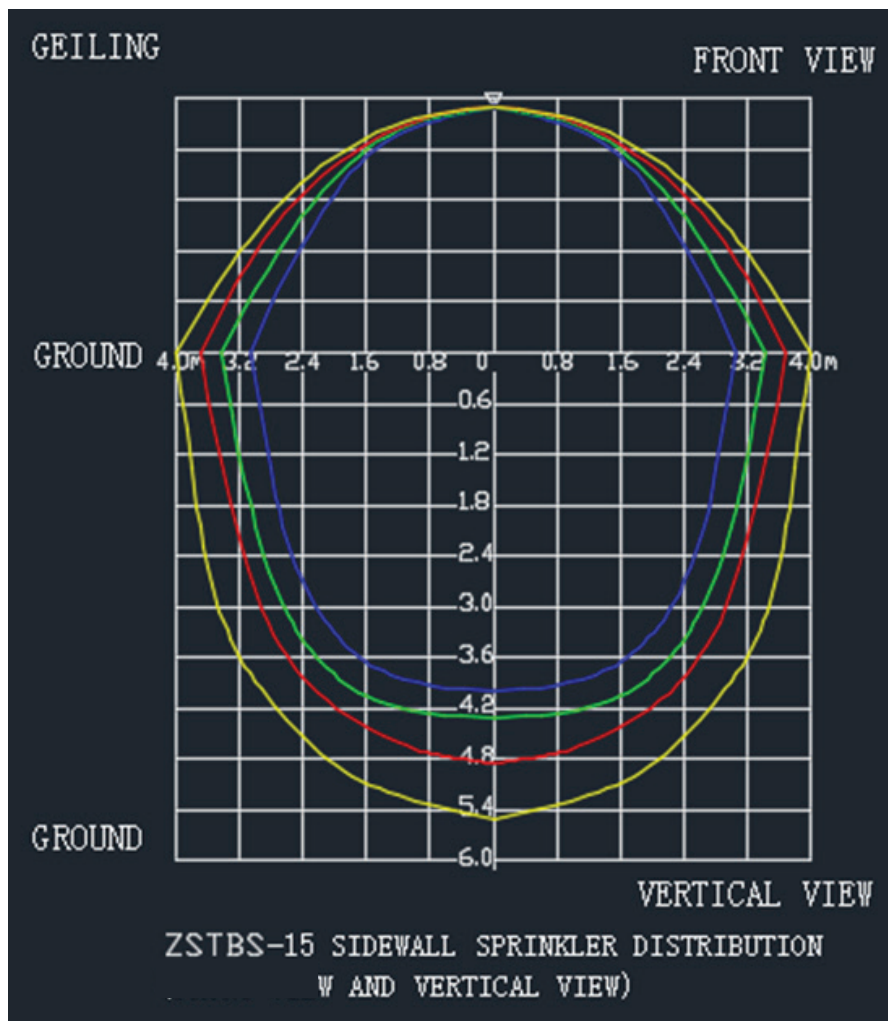
- Upright Sprinkler Distribution



• Pendent Sprinkler Distribution



• Sidewall Sprinkler Distribution



* Installation of concealed sprinklers is prohibited if there is positive pressure above the housing.

* 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)