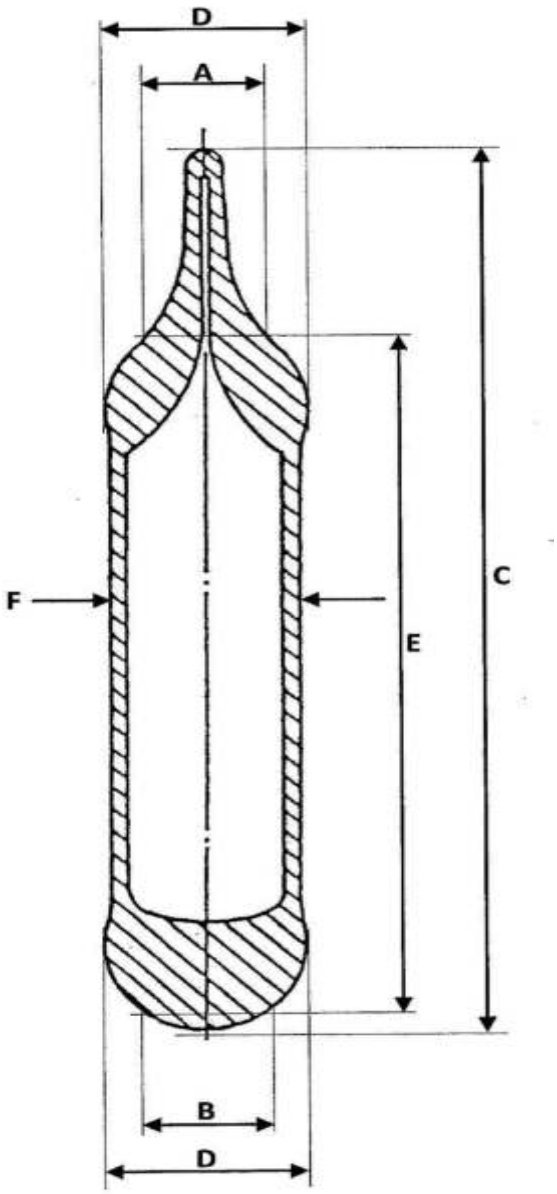
Drawing Not to Scale



Technical Data

1) The 937 frangible Sprinkler bulb is a 5mm diameter glass bulb, especially designed to meet the requirements for Standard Sprinkler Bulbs, but with the fastest permitted response time. It is manufactured from a stock 5mm tube of manufacturer's tolerance.

2) During operation the liquid within the bulb will expand until the required operational temperature is reached. At this point the glass bulb will 'burst' and fracture into small fragments, allowing the sprinkler mechanism to operate.

3) This bulb is designed to fulfil the requirements of the standards detailed in the table below.

4) Precise calibration of the bulbs during the production process enables accurate operating temperatures to be achieved.

5) With the 20mm length of the parallel side, the surface area of the glass is maximised to allow the optimum conductivity of heat from the surrounding air to the bulb liquid. This combined with the special formulation of thermally expansive chemicals enables signifgicant improvement in response times

Specification

Critical Dimensions (mm)	A = Typical Seat Diameter	B = Typical Base Diameter	C = Max Length	D = Max Strengthing	E = seating Length	F = Body Diameter
	3.5 to 3.8	2.5 min	24.5	5.3	20 Ref only	5 Nominal
Compressive Strength/ Crush Load (kN)	Minimuim			LTL Typical		
	4.0			3.0		
	Specific end user 'head loads' and the relevant Standard 'Load safety factors' should be taken into consideration.					
Nominal Temperature Range (°C)	Orange	Red	Yellow	Green	Blue	Mauve
	57	68	79	93	141	182
Response Data (Rti)	Typical Operating Time (UL199)			Typical Rti (EN12259)		
	28 seconds			87		
Standards Applicable	BS EN 12259, LPCB, UL199 & FM 2000					

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Title	**Bulb Technical Criteria**	**No**	**DI-937-01**
Changes/Issue History		Rev	Date
Rti & Operating Time update		C	16/10/08
Clarification & update of parameters and data		D	10/11/08
Updating of LPCB mark		E	20/10/15
Updating of LPCB mark		F	17/10/16
Authorised		**Date**	
		17/10/2016	

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