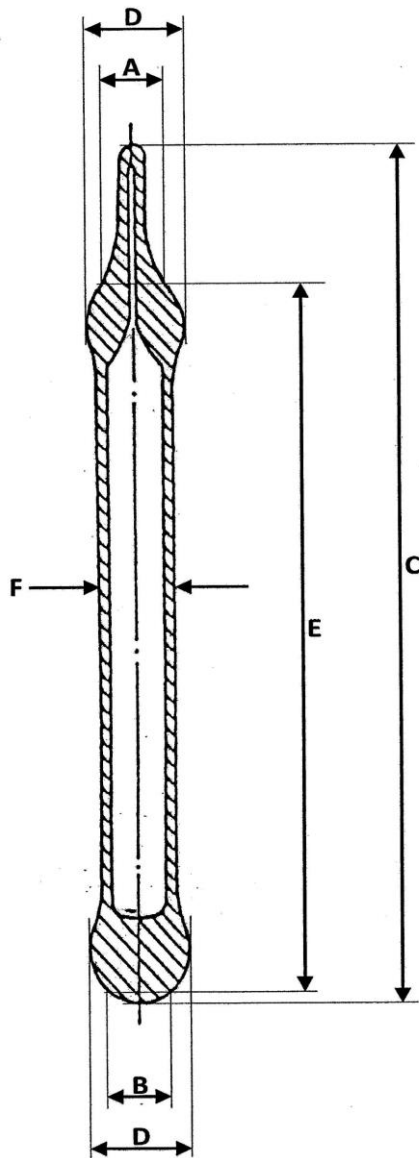


Drawing Not to Scale

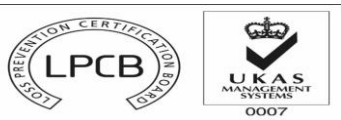


Technical Data

- 1) The 989 frangible Sprinkler bulb is a 2.5mm diameter glass bulb, especially designed to meet the current requirements for Early Suppression Fast Response (ESFR) and current quick response Sprinkler heads. It is manufactured from a stock 2.5mm 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 significant improvement in response times

Specification

Critical Dimensions (mm)	A = Typical Seat Diameter	B = Typical Base Diameter	C = Max Length	D = Max Strengthening	E = seating Length	F = Body Diameter
	2.0 to 2.3	2.0 min	23.4	2.8	20 Ref only	2.5 Nominal
Compressive Strength/ Crush Load (kN)	Minimum			LTL Typical		
	1.8			N/A		
	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) 68°C Bulbs	Typical Operating Time (UL199)			Typical Rti (EN12259)		
	10 seconds			20		
Standards Applicable	BS EN 12259 (Fast Response), FM2000(ESFR), UL 1626 (Residential) & UL1767 (ESFR)					



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Assessed to ISO 9001 Cert No. 291
 LPCB Ref. No. 291

Title	Bulb Technical Criteria	No	DI-989-01
Changes/Issue History		Rev	Date
Rti & Operating Time update		C	16/10/08
Clarification & update of parameters and data		D	18/11/08
Updating of LPCB mark		E	20/10/15
Updating of LPCB mark		F	17/10/16
Authorised		Date	
		17/10/2016	
			989