

Safety Instructions for SQUING 2

(CSA and FM Explosion-proof)

Models Covered:

T*****F** (FM)

T*****D** (CSA)



Explosion-proof SQUING 2

Explosion Proof SQUING 2

Instructions specific to hazardous-area installations:

1. The equipment may be used with flammable gases and vapours with apparatus Class 1, Div 1, Groups A, B, C, and D.
2. The equipment is certified for use in ambient temperatures of -40°C to $+80^{\circ}\text{C}$, and with a maximum process temperature of 150°C .
3. Installation of this equipment shall be carried out by suitably trained personnel, in accordance with the applicable code of practice.
4. Inspection and maintenance of this equipment shall be carried out by suitably trained personnel, in accordance with the applicable code of practice.
5. The user should **not** repair this equipment.
6. The certification of this equipment relies upon the following materials used in its construction:

Body: Aluminium Alloy ASTM B26 356-T6, Aluminium Alloy LM25 TF, Aluminium Alloy A360.0, or 316 Stainless Steel.

Lid: Aluminium Alloy ASTM B26 356-T6, Aluminium Alloy LM25 TF, Aluminium Alloy A360.0, or 316 Stainless Steel.

Probe: Stainless steel 316 Type, or Alloy C-276 (UNS N10276) or equivalent.

Probe Filling: Perlite.

Lid Seal: Silicone.

If the equipment is likely to come into contact with aggressive substances, it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

Aggressive substances: e.g. acidic liquids or gases that may attack metals or solvents that may affect polymeric materials.

Suitable precautions: e.g. regular checks as part of routine inspections or establishing from the material's data sheet that it is resistant to specific chemicals.

Note: The metallic alloy used for the enclosure material may be at the accessible surface of this equipment; in the event of rare accidents, ignition sources due to impact and friction sparks could occur. This shall be considered when the SQUING 2 is being installed in locations that specifically require Class 1, Div 1 equipment.

7. It is the responsibility of the user to ensure:
 - (a) That the joint requirements between the probe and the vessel tank are compatible with the process media.
 - (b) That the joint tightness is correct for the joint material used.
8. The probe fork is subjected to small vibration stresses as part of its normal function. As this provides a partition wall, it is recommended that the fork should be inspected every 2 years for signs of defects.
9. It is the responsibility of the user to ensure that only suitably certified cable entry devices will be utilised when connecting this equipment.

10. Technical data.

Coding: Class 1, Div 1, Groups A, B, C and D

T6 (Ta = -40°C to + 75°C)

T4 (Ta = -40°C to +125°C)

T3 (Ta = -40°C to +150°C)

Ta = the higher of the process or ambient temperature.

For electrical details and pressure ratings, refer to Instruction manual IP2025.

11. Cable selection.

It is the responsibility of the user to ensure that suitably temperature rated cable is used. The table below is a guide to selection:

T Class	Cable Temperature Rating
T6	Above 85°C
T5	Above 100°C
T4	Above 135°C
T3	Above 160°C

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