

# Thermometers for sanitary use

#### **Thermometers**

### **Application**

The Alfa Laval thermometer is designed to fulfill the demands of local temperature indication in sanitary and pharmaceutical production.

Main features are:

Hygienic connection

Robust design: High resistance to corrosion, damp, vibrations and wear

Accurate and long term measurement stability

#### Standard range

Our standard range comes with a liquid-filled housing. It includes a 100 mm dial diameter and built-in temperature compensator. The housing is made of stainless steel (AISI 304) and the clamp connection and sensor tube is made of stainless steel (AISI 316).

As options it can be delivered electro polished and with calibration certificate.

## Working principle

The function is based on expansion of the filling medium in the closed sensor. The change of pressure actuates the spiral spring driving the dial movement. A built-in bimetallic coil compensates automatically for the effect on the reading caused by change of the ambient temperature.

The filling media is an inert gas which is 100% neutral to the environment. This makes the thermometer ideal for use in food and pharmaceutical industries.

#### Technical data

Measuring range:	
	0 to 80 °C
	0 to 100 °C
	0 to 110 °C
	0 to 120 °C
	0 to 150 °C
	0 to 160 °C
	0 to 200 °C
	-20 to 120 °C
Accuracy:	

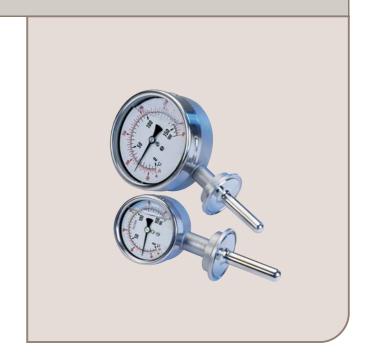
#### Mechanical data

### Process connections:

Clamp DN 38 (ISO2852) / Clamp DN 40 (DIN32676) Clamp DN 50 (ISO2852) / Clamp DN 51 (DIN32676)

Sensor length: . . . . . . . . . . . . . . . . From 50 mm to 300 mm

#### Materials



Glass: .....4 mm thick glass

Filling

Sensor tube: ... inert FDA approved gas Housing: ... FDA approved silicone oil

Operating temperature

Wetted parts: ....up to 250 °C Casing: ....-40 to 100 °C

Weigh

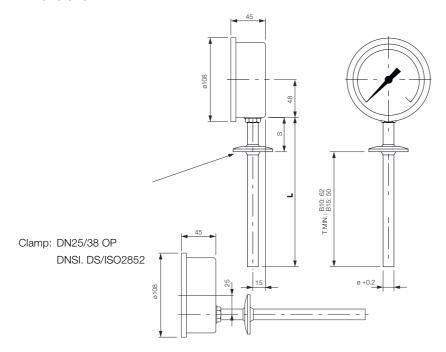
Thermometer with diaphragm: ....approx 1.5 kg

## Certificates

CE-marked
3A (option)

FDA conformity declaration (option) Calibration certificate (option)

## **Dimensions**



ESE01615EN 1001

The information contained herein is correct at the time of issue, but may be subject to change without prior notice.