

PITOT TUBE S



Temperature range
from 0 to +1000°C



Dynamic pressure measurement
of a moving fluid in a duct

Sauermann offers a large range of **Pitot tubes** of great quality and accuracy realised according to the ISO 10 780 norm.

The Sauermann **Pitot tubes**, connected to a differential column of liquid manometer, with needle or electronic, enable to measure the dynamic pressure of a fluid in movement in a pipe and determine its speed in m/s and its flow in m³/h.

The **Pitot tubes** are used in climatic engineering, ventilation, dust-removal and pneumatic transport. They are particularly adapted for measurement in warm air, charged with particles and for high velocity.

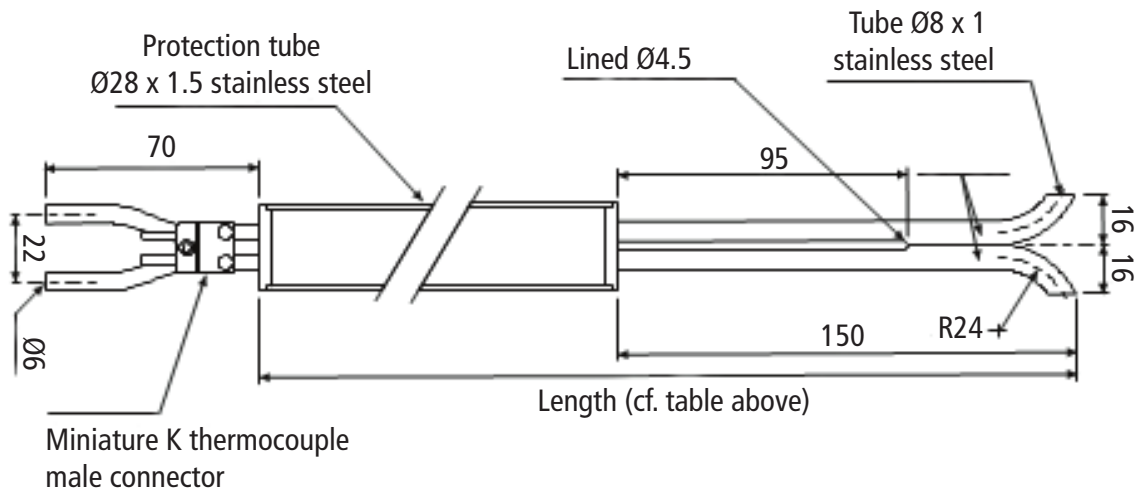
Technical features

Model	S type Pitot tube
Coefficient	0.84 ±0.01
Material	Stainless steel 316 L
Operating temperature	From 0 to 1000°C
Static pressure	Atmospheric
Norms	ISO 10 780

Presentation of the range

Reference	Length
TPS-08-500-T	500 mm
TPS-08-1000-T	1000 mm
TPS-08-1500-T	1500 mm
TPS-08-2000-T	2000 mm
TPS-08-2500-T	2500 mm

Dimensions (in mm)



Operating principle

The Pitot tube is introduced perpendicularly in the pipe by pre-determined points.

The holes must be perfectly aligned with the air or gas flow direction.

The **Pitot tube S** is more sensitive to alignment errors than the **Pitot tube L**.

Knowing that the Pitot tube is symmetrical, it is not necessary to identify the two legs, however the connecting to the measurement device must be carried out like following:

- The leg in front of the air flow is connected to the + sign of the micromanometer.
- The leg at the opposite of the air flow is connected to the – sign of the micromanometer.

Application

