

PAUL-GOTHE-GmbH Bochum

Wittener Straße 82
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Manual for extensible S-Pitot Tube

The Pitot-Tube

In case you need more information about the function of Pitot tubes, use our homepage.

More information and the Declaration of Conformity can be found at service and support on: www.paulgothe.de

S-Pitot-Tube

Factor ~ 0,84

One leg against the gas flow.

Formula to calculate the gas velocity:

$$v = K \cdot \sqrt{\frac{200 \cdot \Delta p}{\delta}}$$

with p: difference pressure in mbar,

δ : operating density of the gas

K: Correction factor (see calibration certificate [K ~ 0,84])

Extensions

The extension tubes (40 x 1) have G1" threads. Before assembly, check threads for damage and always clean it thoroughly. In particular, at lengths over two meters is essential to ensure during assembly, that the parts are horizontal. All thread running smoothly, if not, the threads are not in alignment. Never apply force to tighten or loosen the threads.

Also, keep the tubes in alignment when you loosen the threads.

Strongly heated thread must completely cool down before loosening! Shall be thread used in hot gases, we recommend the use of copper paste. This copper paste is to make a better heat transfer and a better sliding of the thread flanks. If you cannot loose a thread, call us and ask advice. If the thread is twisted with power, we can later not repair it!

The exit of the pressure-tubes at the S-Pitot -Tube is with outer- \varnothing 6 mm smoothly, for the self-cutting ring screw connections with stainless steel-inside-tubes (6 x 1 mm) for the pressure line. Tighten the union nut with a wrench with a 1/2 turn.

Attention: The Pitot tube with the special plug can be used up to a maximum of 420 °C.

If the Kapton insulated extension cable is used, the extensions can only be used up to 320 °C, short-term up to 380 °C!

Assembly:



1. Assembly pressure lines, 2. connect extension cable, 3. shove extension about it and tightening.

Supplied with a direction indicator (mounting example)

