

Product Info: Suction Tubes acc. VDI 2066 and EN 13284-1

Suction tubes available with fixed or exchangeable inner tube.
 Entrance: Internal thread G ½, Exit: external thread G ½.
 Operating range: A: Material Stainless Steel up to 500°C, T: Material Titanium up to 400°C.

Simple suction tube:

with fixed inner tube 10 x 1 mm, Outer diameter protection tube: 25 mm

Art.-No.: 4.10-Material-Length
 (available in special heat resistance steel (1.4841) for use up to 1000°C)



Electrical heated suction tube:

with integrated power heater cartridge (~ 500 W/m) and thermocouple NiCr-Ni for temperature regulation, with quick hose connectors. Outer diameter protection tube: 25 mm



With fixed inner tube 10 x 1 mm:
 For exchangeable inner tube 10 x 1mm:

Art.-No.: 4.21-Material-Length
Art.-No.: 4.22-Material-Length

Water cooled suction tube:

Outer diameter protection tube: 33 mm, without fixed inner tube, for exchangeable inner tube 10 x 1 mm.

The cooling water goes at first through a tube along the internal tube and then at the outside-wall. By glass-break of the internal tube, the individual parts can be removed over the rear internal thread G ¾. With sufficient water-cooling can use this suction tube at temperatures up to 1000°C. If a hot-fan used instead of cooling water (adapters not in the delivery capacity) can the suction tube be heated.



For exchangeable inner tube 10 x 1mm:

Art.-No.: 4.44-Material-Length

Combination probe:

With the combination probe can measure the gas velocity and temperature at the sampling point. Heated and non heated or water cooled versions available. Details see above-mentioned information.

Outer diameter protection tube: 60 mm.


In the delivery capacity are one interchangeable Pitot tube with fast connector and one thermocouple NiCr-Ni type K. The Pitot tube and the thermocouple inserted into the outer tube and installed parallel to the inner tube to determine the gas velocity and the gas temperature directly at the sampling point. Selectable Pitot tubes from Version A to D.




Version	length from - to	Inner tube 10 x 1 mm	Art.-No.
Not heated	0,5-6 m	fixed exchangeable	4.51-Material-Length 4.52-Material-Length
heated	0,5-2,7 m	fixed exchangeable	4.61-Material- Length 4.62-Material- Length
cooled	0,5-6 m	exchangeable	4.72-Material- Length

Available Pitot tubes for combination probe:
 (length between tip Pitot tube and front suction tube)


Version A
 Prandtl-tube (175 mm)



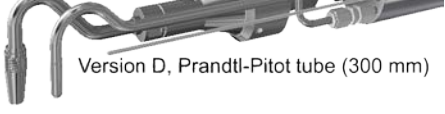
Version B
 S-Pitot tube (175 mm)



Version C, S-Pitot tube (300 mm)



Version D, Prandtl-Pitot tube (300 mm)



Matching inner tubes for all suction tubes:

Exit with KS 19 spherical joint (ball)
 Material: Duran, Quartz, Inox, Titanium



Exit with G ½ external thread
 Material: Inox, Titanium



Exit: smooth
 Material: Duran, Quartz, Inox, Titanium



Accessoires Suction Tubes

Holders

for fixing the suction pipe at the measuring point. The holder needs at least the length of half a sleeve / socket (approx. 30 mm).



Gas-tight holders

made of stainless steel for suction pipes with external Ø 25, 33, 50 or 60 mm. The gas-tight closure is achieved by a packing cord which is pressed against a flange on the suction pipe by means of screws. For shifting the suction pipe the flange is loosened;

with external thread G 2:

Art.-No.: 47.11

with external thread G 2½:

Art.-No.: 47.12

with external thread G 3:

Art.-No.: 47.13



Quick fastener holder

material: stainless steel pipe with two aluminium half-pans on the inside. The lower half-pan is firmly screwed on while the upper pan is moved by a toggle. The holder is not gas-tight. Shifting the suction pipe works fast and easily through the toggle. The suction pipe is not damaged by the half-pans even under strong loading. The half-pans are adapted to the required external Ø of the suction pipe. For suction tubes with external Ø: 25, 33, 50 or 60 mm.



Small holder (for suction tubes with Ø: 25-33 mm)

with External thread G 2

Art.-No.: 47.31

with External thread G 2½

Art.-No.: 47.32

with External thread G 3

Art.-No.: 47.33



Big holder (for suction tubes with Ø: 33-60 mm)

with External thread G 2

Art.-No.: 47.21

with External thread G 2½

Art.-No.: 47.22

with External thread G 3

Art.-No.: 47.23

Sleeve reduction



The holder can be adapted to the different coupling sleeves / sockets at the measuring points through sleeve reductions (bushing (M/F)). The sleeve reduction is composed of stainless steel and an internal thread.

Reduction of G 3 to G 2:

Art.-No.: 47.41

Reduction of G 2½ to G 2:

Art.-No.: 47.42

Adapter for suction tube:



Entry adapter to adjust the gooseneck curve or bent in flow direction:

for fixed inner tube:

Art.-No.: 3.03 (Stainless Steel or Titanium)

for exchangeable inner tube:

Art.-No.: 3.01 (Stainless Steel or Titanium)