

PAUL-GOTHE-GmbH Bochum

Wittener Straße 82
D-44789 Bochum



Manual

for

Heated suction tubes

Before use check the electrical condition of the appliance. For your safety: Don't connect with the power supply if you can see any damage.

Use this heater only in combination with a regulator. Don't use it without any controlled power supply -also not a short period-.

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

How to use:

1. Connect Thermocouple with the regulator.
2. Connect plug to the power supply at the regulator.
3. Set temperature at the regulator

Technical Data

| | |
|------------------------------|--------------------------|
| Power supply: | max. 250 V; 48 ... 62 Hz |
| max. temperature at heater: | 500°C |
| Isolation-resistance (cold): | ≥ 5 MΩ at 500 V-DC |
| fall. Amperage: | < 0,1 mA at 253 V-AC |
| material of the heater: | CrNi-Steel |
| heater isolation: | MgO |
| Thermocouple (option): | NiCr-Ni type K |

Demands on the heating controller:

The service life of the built-in heaters should not be shortened by overuse, we recommend a heating controller with automatic soft-start function. With this function can slowly evaporate any moisture from the heater.

The devices should be stored at room temperature and generally dry. If this is not possible, the unit must necessarily heated advance at low power (current limit!): The heater must heat up very slowly and be heated to 80-120°C for 1-2 hours. After this procedure the unit is usable.

We recommend our heating controller with PID control technology.

PAUL-GOTHE-GmbH Bochum

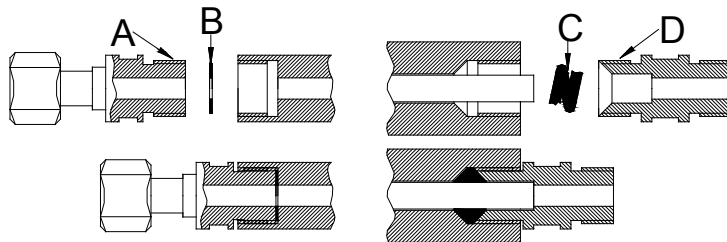
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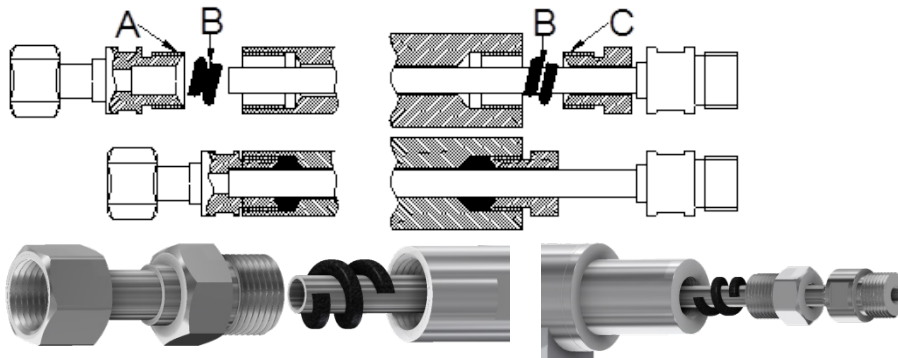
for

Suction tubes with firmly welded interior tube (10 x 1 mm):



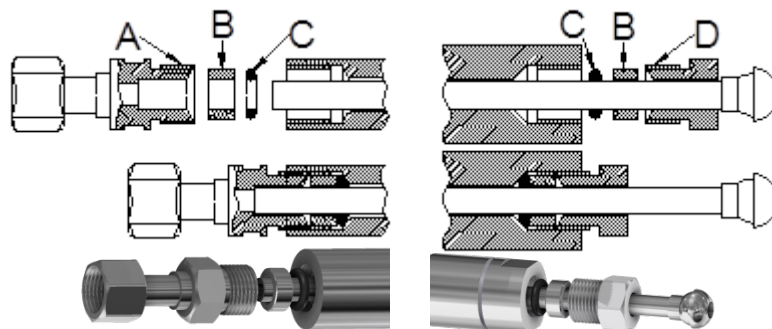
Picture 1: Design of the suction tube with fixed inner tube.
A: Adapter 3.03; B: Seal Di-8; C: Packing Cord; D: double nipple

Suction tubes with exchangeable interior tubes 10 x 1 mm:



Picture 2: Design of the suction tube with exchangeable inner tube.
A: Adapter 3.01; B: Packing Cord; C: stuffing box

Coolable suction tubes for exchangeable interior tubes 10 x 1 mm



Picture 3: Design of the suction tube with exchangeable inner tube.
A: Adapter 3.01; B: Spacer; C: O-Ring Seal

Insertion of the S-Pitot or Prandtl-pitot-tube at the combination probe

In order to connect the Prandtl- or S-Pitot-tube at the combination probe use the compression type fitting. For each use (filter IN- or OUT-Stack can order a separate Pitot tube. According to the EN-Guidelines must be the tip of the Pitot tube 50 mm away from the tip of the nozzle.

More information and the Declaration of Conformity can be found at service and support on:

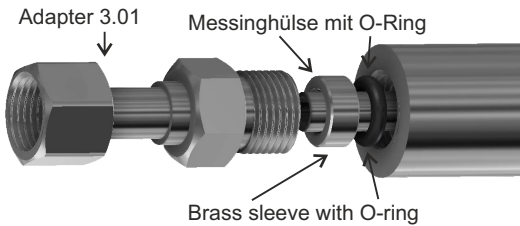
www.paulgothe.de



How to fix the inner tube in the suction tube / Fixieren des Innenrohres im Absaugrohr

For example: Cooled-Probe with exchangeable inner tube.

Als Beispiel: Kühlbare-Sonde mit auswechselbarem Innenrohr.

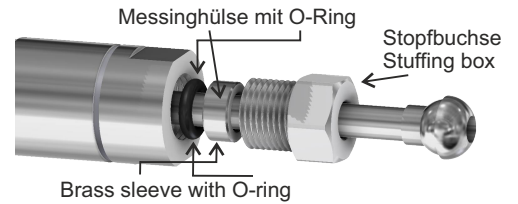


Bis 80°C (200°C bei Viton)
Messinghülse mit O-Ring.

Viton-O-Ring auf Anfrage

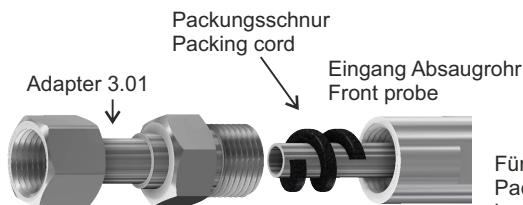
Up to 80°C (200°C if Viton)
Brass sleeve with O-ring.

Viton O-ring on request

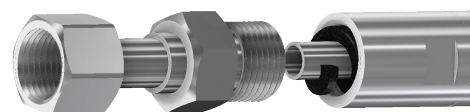


For example: Heated-Probe with exchangeable inner tube (sealing with packing cord)

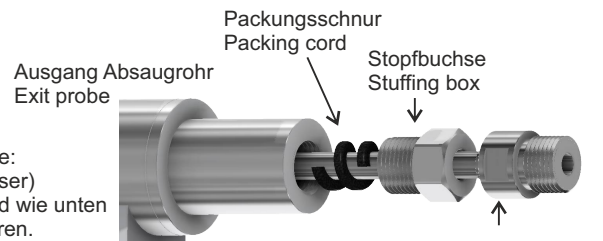
Als Beispiel: Beheizbare-Sonde mit auswechselbarem Innenrohr (Dichtung mit Packungsschnur)



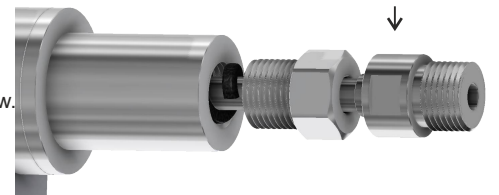
Für beheizbare Absaugrohre:
Packungsschnur (Mineralfaser)
in das Gewinde drücken und wie unten
beschrieben Innenrohr fixieren.



For heated suction tube:
Use packing cord (mineral fibre)
press the cord into the thread
and fix the inner tube as describe below.



Innenrohr mit G ½ Gewinde
Inner tube with thread G ½



Allgemein:

Erst die Stopfbuchse (auf dem Innenrohr) in das Gewinde am Ausgang vom Absaugrohr schrauben, das Innenrohr nach vorne schieben und anschließend den Adapters (3.01) vorne in das Gewinde des Absaugrohres drehen und damit das Innenrohr zurück schieben.

Adapter 3.01 festziehen, dann die Stopfbuchse am Ausgang vom Absaugrohr festschrauben (Handfest reicht!).

Generally:

At first, fix the stuffing box (on inner tube) at the exit of the suction tube, shove the inner tube to the front.

Screw the adapter (3.01) into the front thread of the probe while the inner tube will be shoved back. Fix the adapter gas tight.

Now fix the stuffing box at the exit of the probe (tighten by hand).

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Zeichnungs-Nr.:

How to fix the inner tube in the suction tube
Fixieren des Innenrohres im Absaugrohr

Be/Rd



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