

Additional maintenance instructions

Sample gas probe SP2000-H/HP
 operating pressure max. 25 bar

see drawing 2 - 1.2.15 No.:2255/03/04.00

Maintenance

Prior to any maintenance work, it has to be paid attention to the specific safety procedures of the plant and process!

It is difficult to give any recommendation as to a particular maintenance cycle. Depending on your process conditions, a meaningful maintenance cycle must be elaborated for the specific application. An indication that probe-maintenance may be necessary could be a constant decline in the amount of sample gas in the analysis system.

Probe maintenance is restricted essentially to replacing filter element and checking seals.



WARNING! AGGRESSIVE CONDENSATE IS POSSIBLE.
 WEAR PROTECTIVE GLASSES AND PROTECTIVE CLOTHING!



WHEN WORKING WHILE OPERATION:

HIGH SURFACE TEMPERATURES! **180°C !!!**

TOUCHING MAY CAUSE BURNINGS.

WEAR PROTECTIVE GLOVES! PROBE AND PARTS OF THE PROBE MUST BE PROTECTED AGAINST UNAUTHORIZED PERSONS !

● Changing the filter element and control of O-ring sealings

- Close ball valve (if fitted). **Flush probe in the case of toxic gases!**
 Operating pressure in the probe must be released atmospherically!
- Remove probe protection shield after opening pressure clamps.
- Loosen the four M16 nuts „A“ (*turn to the left side*).
- Take the ring (20) and draw the lid flange (19) out of the housing together with filter receptable (9+10) which is connected to the flange.
- Screw out the knurled screw of the filter (4) and change the filter element (6).
- Check filter element seals (5) and change if necessary.
- Check O-rings (7+8) in the filter receptable (9+10) and replace if necessary.
- Clean the filter chamber.
- Get lid flange (19) with connected filter receptable (9+10) into filter housing again by holding the ring (20).
- Tighten firmly the four M16 pressing nuts „A“ crosswise (*turn to the right side*).
- Put on the protection shield.
- Wait approx. 15 minutes for heating up of cold down probe parts, eventually purge probe, open ball valve.

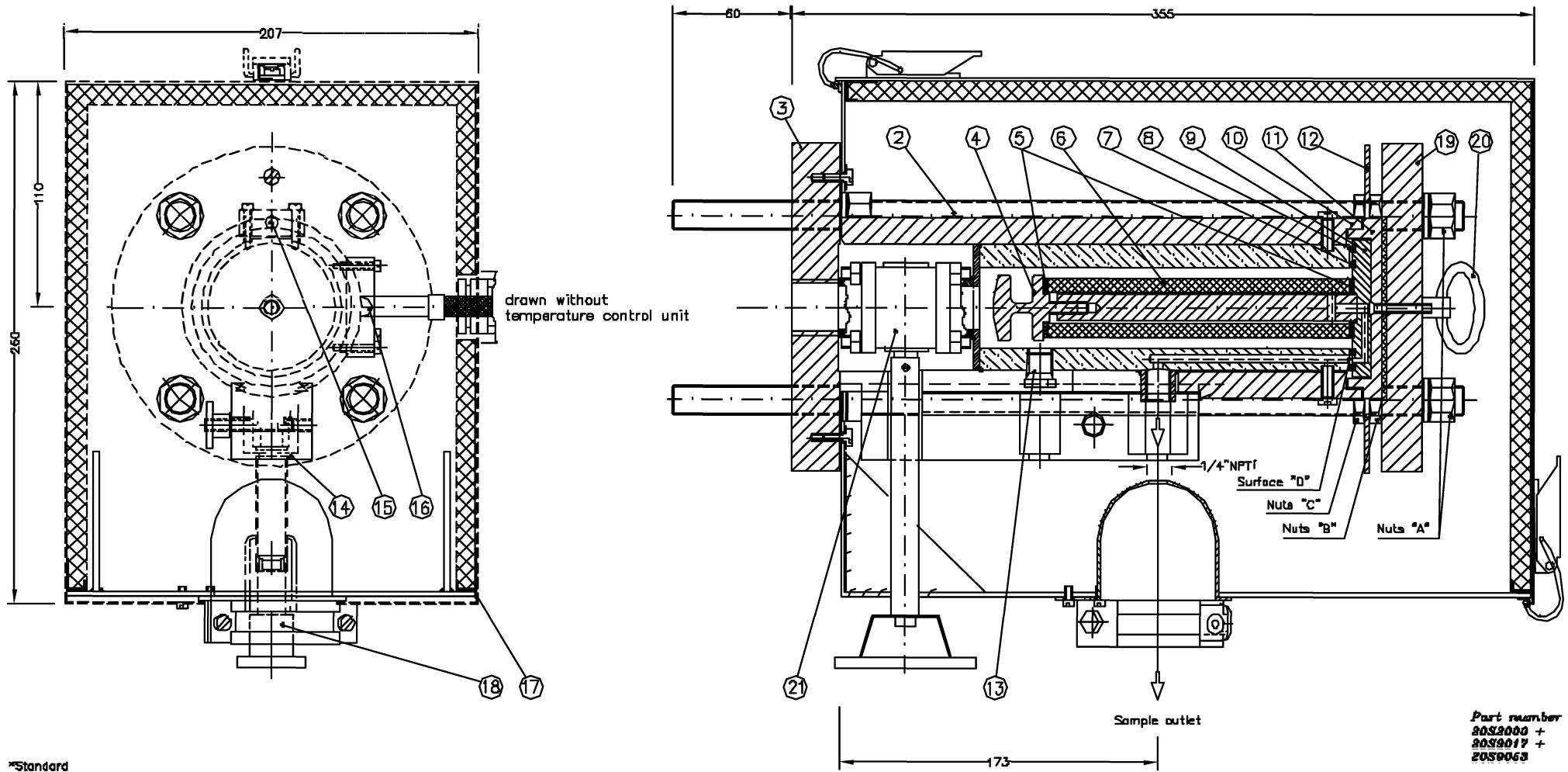
● Adjustment of the filter lid flange (19)

In order to guarantee the sealing and functioning of the probe SP2000-H/HP on a long terms basis, it may be necessary to renew the adjustment of the nuts "B"+"C" for the limit stop "D" of the lid flange (19). The flange (19) has to be fixed to the filter housing in parallel position to the sealing surface "D" to get a common pressure to the O-rings (7+8):

- Remove crosswise the four M16 nuts „A“ and draw the flange (19) with connected filter receptable (9+10) out of the filter housing by holding the ring (20).
- Loosen the fixed nuts "B"+"C" and screw including the fixed plate into direction of the probe flange.
- Take the O-rings (7+8) out of the filter receptable (9+10).
- Lay the lid flange (19) flatly on the sealing surface "D" of the filter housing and fasten regularly crosswise the four M16 nuts "A".
- Adjust the four nuts "B" in that way that they touch the lid flange (19).
- Tighten firmly and equally the plate (12) with four nuts "C" against nuts "B".
- Unscrew the M16 nuts „A“ and draw lid flange (19) with connected filter receptable (9+10) out of the filter housing by holding the ring (20) and put in again the O-rings (7+8). Only use intact O-rings!
- Put the lid flange (19) on the saeling surface "D" of filter housing and tighten, firmly and equally the four M16 nuts "A" crosswise.

The torque moment for the nuts "A" should be approx. 75 Nm.

Gas sample probe SP2000-H/VA320/HP/... high pressure version DN50 PN25



Part number
9032000 +
9039017 +
2050063

*Standard
Dimensions in mm

Subject to technical modifications

Pos.	Description	Type	Part.-No.	Material	Pos.	Description	Type	Part.-No.	Material	Pos.	Description	Type	Part.-No.	Material
1					8	O-Ring 55		9330026	Viton *	15	Thermostate	EMFF=1.34	9350070	*
2	Thi-rod M16			SS304	9	Cover with filter holder			SS316 *	16	Heater cartridge 230V,50HZ,630W	HLP	9350075	*
3	Flange	DN50/PN25/E		SS316	10	Al-Heater body			Anodized-Al	17	Weather protection cover		9350070	pointed Steel
4	Filter screw		9352084	SS316	11	Al-Cover			Anodized-Al	18	Clamp 1 1/4"		9350066	Steel
5	Gasket		9350045	Viton	12	Disk			SS316	19	Flange	DN50/PN40		SS316
6	Filter element	S-2K-150	9050020	Ceramik	13	Plug			SS316	20	Handle			SS316
7	O-Ring 39		9330020	Viton	14	Thermal conductivity jaws			Anodized-Al	21	Ball valve 5P2000/VA320	SSTB3MSW8P	9050063	SS316, Grafal