

PSG Basic

Flex

Application

The controlled heated flexible sample lines series **PSG Basic Flex** are used for continuous extractive gas analysis. They serve primarily for the transport of the humid sample gas stream from the sample point to the analyzer house. The holding temperature of the line thereby has to be above water vapour resp. acid dew point of the sample gas. In this way uncontrolled condensation of water vapour on the way to the analyzer and therefore washing out of gas components in condensate is prevented. Also, failure of the measurement by a freezing line at ambient temperatures below 0°C is avoided.



The flexible lines are equipped with outer jacket corrugated tube made of PA12. The ultra-flexible versions get an outer jacket made of PA12 braid. For heating a fixed resistor heating cable is used. Insulation is done with silicone foam hose. Up to 6 internal lines made of PTFE or PFA are possible. Interchangeable PTFE or PFA are also available.

Functions

The lines are delivered completely assembled and ready for operation ex works. The control of the lines is done with an external temperature controller (e.g. Controller ST 49 or Controller DC-10) via integrated PT100 to max. 200°C.





- Robust design with flexible corrugated hose outer jacket made of PA12
- ✓ Ultraflexible versions with PA12 braid outer jacket
- Operation with external temperature controller
- Fixed resistor heating cable
- Max. 200°C control temperature
- Ready for operation assembled ex works
- Internal lines made of PTFE or PFA
- Up to 6 internal lines as option
- Interchangeable internal lines as option



Technical data

Construction data		
Max. operating temperature	°C	200
Heat insulation / weight	kg/m	silicone foam hose / 0,8
Insulation thickness	mm	10
Heating cable type		Fixed resistor heating cable
Outer jacket		PA12 corrugated hose or braid
Outer diameter	mm	43 with one internal line
Min. bending radius	mm	8 - 10 x outer diameter
Ambient temperature	°C	-20 to +65
Max. operating pressure abs. PTFE line	bar	DN4/6: 5,6 / DN6/8: 4,5
Protection class		IP64 (EN60529)
Max. heating circuit length	m	60
Electrical data		
Power	W/m	90
Electrical connection		3m silicone connection cable*, open ends (included in assembly)
Power supply		230V 50/60Hz or optional 120V 50/60Hz
Order numbers for line with PA12 corru	gated hose, 230V	50/60Hz
1 x PTFE internal tube 6mm	1m	54002196
1 x PTFE internal tube 8mm	1m	54000323
1 x PTFE internal tube 10mm	1m	54000462
1 x PTFE internal tube 12mm	1m	54000013
Order numbers for assembly ex works		
Silicone cap ending		50084005
Silicone cap with electr. connection		50085004
PTFE cap ending		50085003

^{*} to lead frontal or backwards through the cap



Options

- ✓ Flexible lines with PA12 corrugated hose outer jacket Ultraflexible lines with outer jacket made of PA12 braid Up to 6 internal lines made of PTFE or PFA DN4/6, DN6/8, DN8/10, DN10/12 or inch
- Interchangeable internal linesPower supply 115V 50/60Hz
- Cable gland M63 x 1,5 (clamping range 36-48mm), PA, for cabinet wall mounting, IP68, mounted or separately