

PSG Plus Flex

Application

The controlled heated flexible sample lines series **PSG Plus Flex** are used for 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.

Technology

The flexible lines are equipped with outer jacket corrugated tube made of metal. For heating a fixed resistor heating cable is used. Insulation is done with glass fibre and thermos fleece. Internal lines made of PTFE or PFA are possible. Pressure resistance is achieved by a metal braid jacket of the internal tube.

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 tube outer jacket made of metal with extruded PVC protection coating
- Pressure resistant internal tube with metal braid 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



Technical data

| Construction data | | |
|--|------|---|
| Max. operating temperature | °C | 200 |
| Heat insulation / weight | kg/m | glass fibre and thermo fleece / 1 |
| Insulation thickness | mm | 10 |
| Heating cable type | | fixed resistor heating cable |
| Outer jacket | | metal corrugated tube with extruded PVC protection coating |
| Outer diameter | mm | 42 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 | 20 |
| Protection class | | IP64 (EN60529) |
| Max. heating circuit length | m | 60 |
| Elektrical 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 metal corrugated tube with extruded PVC protection coating, 230V 50/60Hz | | |
| 1 x PTFE internal line 6mm | 1m | 54003239 |
| 1 x PTFE internal line 8mm | 1m | 54003126 |
| Order numbers for assembly ex works | | |
| Silicone cap with stainless steel tube socket | | 50085049 |
| Silicone cap with stainless steel tube socket | | 50085057 |
| PT100 placed 350mm from ending, 3m cable | | 50061200 |

