

PSG Basic Extruded

Application

The controlled heated sample lines series **PSG Basic Extruded** 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.

Technology

The robust lines with thick-walled extruded flame resistant and extremely weather resistant TPU, PE or PVC outer jacket are equipped with parallel heating cable. Insulation is done with a thermal or glass fibre fleece. Up to 12 PTFE, PFA, stainless steel or special alloy tubes as internal line and also interchangeable internal tubes are available.

Functions

The lines are available up to 300m at a stretch e.g. on cable drum and then can be adapted on-site and shortened every 0,5m. Furthermore, they are available ready for operation ex works. Control of the lines to max. 200°C is done by an external temperature controller (e.g. Controller ST 49 or Controller DC-10) via the integrated PT100.



•	Operation with external temperature controller
~	PSG Basic parallel heating cable
•	Max. 200°C control temperature
1	Up to 500m at a stretch
•	Every 0,5m shortenable for assembly on- site (video tutorial on You Tube) or ready- made ex works
-	Robust design with thick-walled extruded, flame resistant, extremely weather resistant PVC, PE or TPU outer jacket
•	Internal tube made of PTFE, PFA, stainless steel or special alloy
1	Up to 12 internal lines as option
~	Interchangeable internal lines as option

Technical data

Product Data

Construction data			
Max. operating temperature		200	
Heat insulation / weight		thermal or glass fibre fleece / 1	
Insulation thickness		10	
Heating cable type		parallel heating cable PSG Basic	
Outer jacket		2mm PVC, PE or TPU extruded	
Outer diameter		42 with one internal line, 43 with 2x6mm, 45 with 2x8mm	
Min. bending radius		8 - 10 x outer diameter	
Ambient temperature		-20 to +65	
Max. operating pressure abs. PTFE line		DN4/6: 5,6 / DN6/8: 4,5	
Max. operating pressure abs. SS316L line		400	
Protection class		IP64 (EN60529)	
Max. length heating circuit		60	
Electrical data			
Power		60	
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 230V 50/60Hz			
1 x PTFE internal tube 6mm		54003267	
1 x PTFE internal tube 8mm		54003084	
1 x PTFE internal tube 6mm interchangeable		54003139	
2 x PTFE internal tube 6mm		54003305	
2 x PTFE internal tube 8mm		50030601	
1 x Stainless steel internal tube 6mm		54003377	
1 x Stainless steel internal tube 8mm		54003378	
Order numbers for assembly ex works			
Silicone cap ending		50084005	
Silicone cap with electr. connection		50085004	
PTFE cap ending		50085003	
PTFE cap with electr. connection		50085002	
Order numbers for assembly on-site			
Silicone cap ending		50084007	
Silicone cap with electr. connection		50050470	
PTFE cap ending		50084003	
PTFE cap with electr. connection		50084002	

* to lead frontal or backwards through the cap



Interchangeable Internal line
Power supply 115V 50/60Hz

Cable gland M63 x 1,5 (clamping range 36-48mm), PA, for cabinet wall mounting, IP68, mounted or separately