



PSP3/4-M Sil 4/6

Electrically heated sample lines PSP3/4-M Sil 4/6 for portable applications

Type PSP3-M Sil 4/6 with PTFE tube, non-replaceable
Type PSP4-M Sil 4/6 with PTFE tube, replaceable

Special Features

- **Specially designed for portable measuring tasks**
- **Optional control with PSS-5C via a built-in controller. Power supply feedthrough for PSP4000 series**
- **Easy to clean, dirt-repellent silicone outer jacket**
- **Small bending radius of > 160 mm**
- **Particularly stable anti-kink protection for the PTFE inner tube**
- **Completely assembled at the factory**
- **Type PSP3-M Sil 4/6 with non-replaceable PTFE inner tube and SS tube stubs**
- **Type PSP4-M Sil 4/6 with replaceable PTFE inner tube and SS tube stubs, optionally with Quicklock connection on the case side only or on the case and sample probe side**
- **Tube \varnothing 4/6 mm nominal size (DN)**
- **Temperature range M=200 °C**

Application

The electrically heated, pluggable M&C sample lines PSP3/4-M Sil 4/6 are used in portable gas analysis systems to prevent measurement errors and also serve as frost protection for the transport of samples from the sampling point to the PSS-5C gas conditioning system or directly to the heated (above dew point) analyzer.

The sample lines can be heated up to 200 °C to prevent washout and dew point reduction in the gas flow.

Description

The electrically heated 3/4-M Sil M&C sample lines are delivered ready assembled with configurable fixed length according to customer requirements.

The sample lines are designed for the temperature range up to 200 °C and are available in two tube types (3/4) with 4/6 DN.

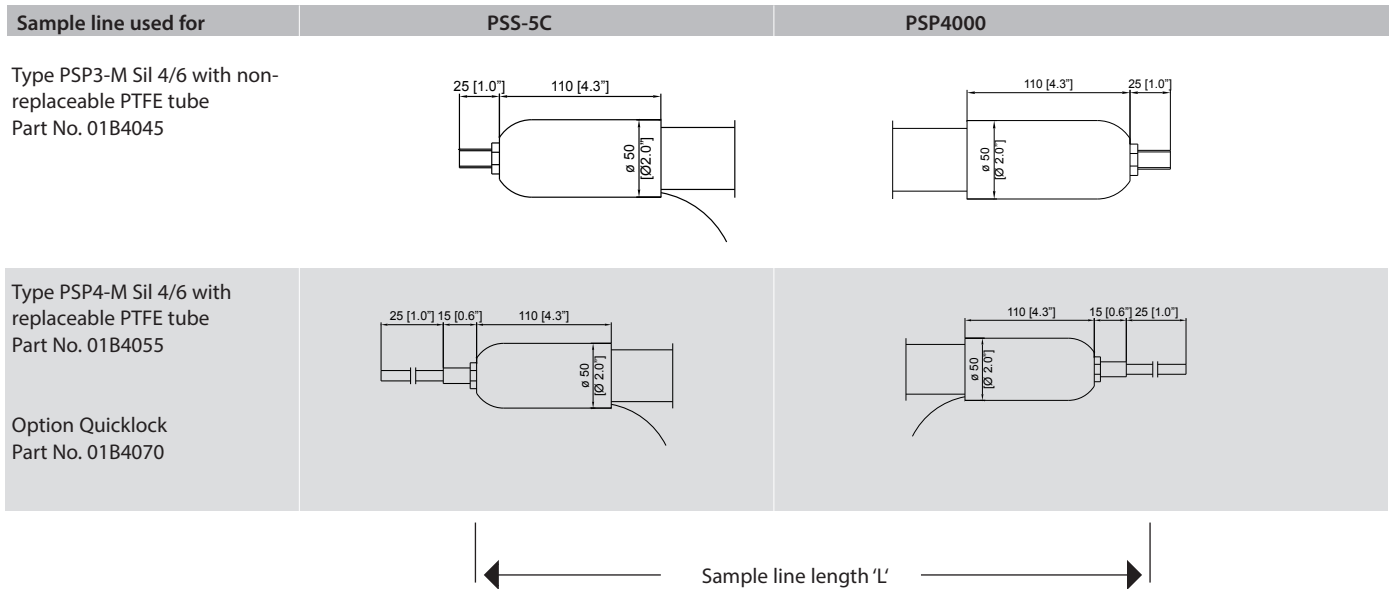
The PSP3-M Sil 4/6 standard version is equipped with a non-replaceable PTFE inner tube. The PSP4-M Sil 4/6 standard version has a replaceable PTFE inner tube.

The replaceable PTFE inner tube of the PSP4-M Sil 4/6 can be optionally equipped with one or two Quicklock adapters.

The robust construction of the sample lines consists of the inner tube, a heat conducting and supporting body made of stainless steel braided tubing, the axially coiled high-performance heating conductor and heat insulation. The outer jacket is made of easy to clean and dirt-repellent silicone.

The moulded end pieces made of temperature-resistant silicone ensure heating of the sample line up to the end of the connection. A PT100 is provided in the sample line for temperature measurement.

Front and end fittings of the heated sample lines



Dimensions in mm [inches]

Technical Data

Sample lines	PSP3-M Sil 4/6	PSP4-M Sil 4/6
Part No front and end fittings	01B4045	01B4055
Part No for sample line per meter	01B4040	01B4050
Part No option Quicklock adapters	-	01B4070
Operating temperature, max.	+200 °C [212 °F]	
Power supply	230 V AC	
Power consumption at DN 4/6	100 W/m	
Pressure, max.	10 bar	
Ambient temperature, max.	-10 °C to + 45 °C [14 to 113 °F]	
Tube DN	4/6 mm, others on request	
Sample line inlet and end fittings	See front and end fittings in drawings above	
Auxiliary power	230 V AC *standard, supplied via a temperature controller	
PT100-sensor position	0.25 m [≈ 0.82 ft] from the power inlet connection - standard	
Weight	First meter = 2 kg [≈ 4.4 lbs] / each additional meter = 0.9 kg [≈ 1.98 lbs] standard version	
Sample line max. length	10 m [≈ 32.8 ft]	
PSS-5C: electrical connection	7 pins plug 10 A at inlet connection, 0.3 m [≈ 11.8"] cable length	
PSP4000: electrical connection	7 pins plug 10 A at inlet connection, 0.5 m [≈ 19.7"] cable length	
Sample line inlet and outlet seal connections	SS 316Ti tube stubs ø 6 mm, 25 mm [≈ 1.0"] long	SS 316Ti tube stubs ø 6 mm, 25 mm [≈ 1.0"] + 15 mm [≈ 0.6"] long, detachable
Thermal insulating material	Thermo fleece	
Outer jacket	Gray	
Application fields/smallest bending radius	Mobile and stationary, inside and outside mounting / 160 mm [≈ 6.3"]	