



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 PSS5C 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 [≈ 6.3"]**
- **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 [392 °F]**

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 PSS5C gas conditioning system or directly to the heated (above dew point) analyzer.

The sample lines can be heated up to 200 °C [392 °F] 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 [392 °F] and are available in two tube types (3/4) with 4/6 DN.

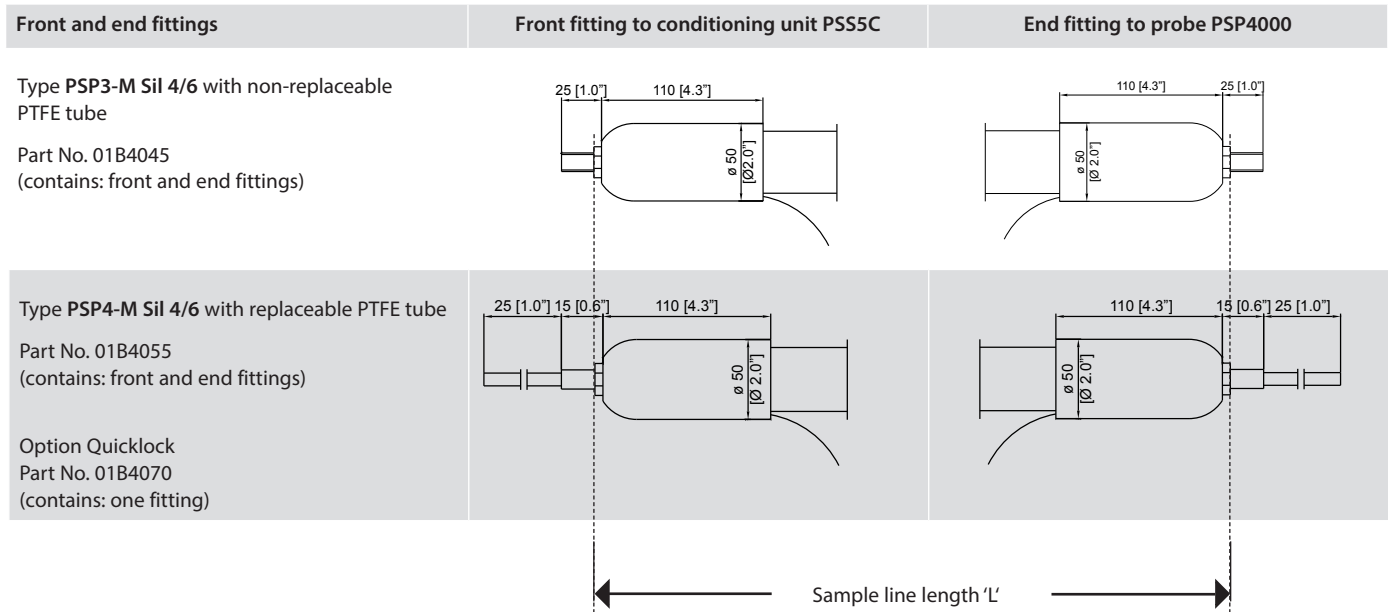
The PSP3-M Sil 4/6 standard version is equipped with a non-replaceable PTFE inner tube. The PSP4-M Sil 4/6 standard version has a replaceable PTFE inner tube.

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. for sample line per meter	01B4040	01B4050
Part No. front and end fittings	01B4045	01B4055
Part No. option Quicklock (one fitting)	No	01B4070
Operating temperature, max.	+200 °C [392 °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 length	10 m [≈ 32.8 ft] max. in one piece	
PSS5C: electrical connection	7 pin-plug 10 A at front fitting, 0.3 m [≈ 11.8"] cable length	
PSP4000: electrical connection	7 pin-coupling 10 A at end fitting, 0.5 m [≈ 19.7"] cable length	
Sample line inlet and outlet seal connections	SS 316Ti tube stubs, ø 6 mm OD, 25 mm [≈ 1.0"] long	SS 316Ti tube stubs, ø 6 mm OD, 15 [≈ 0.6"] + 25 mm [≈ 1.0"] 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"]	