

## VersaTrans Versatile Line



### Example applications

- Process control with NIR, UV/VIS and fluorescence spectroscopy
- Measurement of UV-VIS-absorbing gases such as F<sub>2</sub>, Cl<sub>2</sub>, Br<sub>2</sub>, I<sub>2</sub>, SO<sub>2</sub>, O<sub>2</sub>
- Reaction tracking in chemical processes from UV to NIR
- Solvent blending



### Benefits

- Optical layer thickness freely selectable and adjustable by the customer
- Fibre optics can be changed during the ongoing process
- Little reduction in cross section thanks to slim probes
- Very high energy throughput for a good signal-to-noise ratio
- Suitable for all common fibre optic coupled spectrometers and photometers
- Wavelength ranges: UV/VIS/NIR



### Technical Specifications Standard Flowcell

Measuring Principle	Transmittance
Material Process Window	Sapphire
Material Flowcell	1.4571
Process Connection	Swagelok fitting 6 mm / ¼ Zoll
Sealing Material	Kalrez® 6375
Temperature Range	5 °C to 150 °C (pertinent to Sealing Material)
Pressure Range	up to 40 bar / 600lb/sq.in. (pertinent to Flange)
Optical Path Length	freely selectable up to 8 mm / 0,31 Zoll
Collimation Optics	Stainless Steel 1.4571 with Lens Suprasil® 300
Optical Fiber	0,5 m / 19,7 Zoll Stainless Steel Coat 600/660 µm Quarzfiber with SMA Connection and Stainless Steel Sleeve 130 mm / 5,12 Zoll
Compliance	Pressure Equipment Directive 2014/68/EU

Other materials, such as other stainless steels or Hastelloy, are manufactured on customer request. Other process connections or sealing materials can also be used according to customer requirements. For UV applications or on request the cell can be manufactured with process windows made of quartz and collimation optics made of Suprasil® 1.