

TMM50 Hygienic Line



Example applications

- Process control with NIR, UV/VIS and fluorescence spectroscopy
- Measurement in the food industry, dairies or sensitive processes in the pharmaceutical industry
- Withstands all CIP/SIP and sterilisation processes



Benefits

- No elastomers; stainless steel or Hastelloy is used as sealing material
- Easy process connection via standard flanges
- Fibre optics can be easily changed by the customer during the process
- Optical layer thickness freely selectable by the customer
- Design according to EHDGE/3A
- 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	1.4435 lectropolished
Process Connection	TriClamp
Sealing Material	1.4435
Temperature Range	-5° C bis 200° C
Pressure Range	up to 40 bar / 600lb/sq.in. (pertinent to Flange)
Optical Path Length	freely selectable up to 20 mm / 0,78 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 flange types 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.