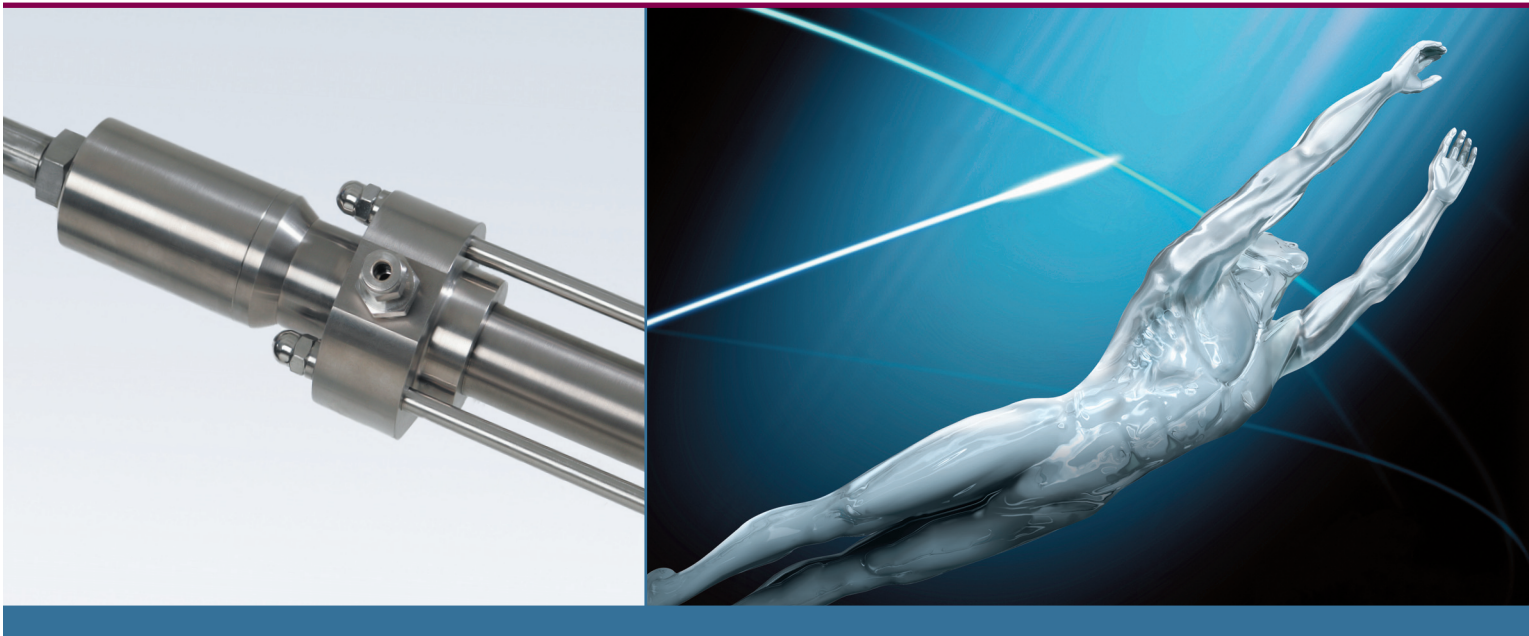


EXPANDO

Fiberoptic Transmission Flow Cells with the Superior Optic Material – Sapphire



EXPANDO transmission flow cells are remarkable for their robust design and unmatched selection of materials for all wetted surfaces. With the optic material sapphire, EXPANDO transmission flow cells are practically abrasion- and corrosion free, and thus stable in concentrated, strong acids and bases. Moreover, the probes will not be damaged by spikes in temperature or pressure.

EXPANDO transmission flow cells are ideally used where large optical path lengths are needed for determining concentration spectrometrically. Areas of application are gas analysis and trace analysis in liquids. EXPANDO transmission flow cells offer a selection of many different materials and process connections and can be flexibly adapted to individual requirements.

EXPANDO – the Clear Advantages at a Glance



- Abrasion- and corrosion-free sapphire optics
- Chemical resistance
- Verifiable process capability
- Range of applications from UV to NIR
- Compatible with all types of spectrometers
- Wide variety of models and customized designs
- Complete range of accessories and spectrometers

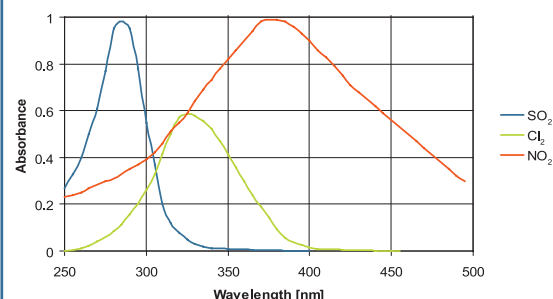
EXPANDO Meets the Highest Demands in Process Analysis Technology

Applications

Determination of single parameters or multicomponent analysis in liquids or gases.

Standard Procedures

- Measurement of UV-VIS-absorbing gases such as F₂, Cl₂, Br₂, I₂, NO_x, SO₂, ozone and Hg
- Measurement of UV-VIS-absorbing substances in the gas phase such as benzene, chlorobenzene, phosgene and many others
- Cleaning Validation programs for API productions
- Determination of concentrations down to the sub-ppm range



Specifications

Optic

Optical path length (OPL) 100, 250, 500, 1000 mm

Process Conditions

Temperature - 10 / 130°C

Pressure up to 16 bar

Declaration of Conformity

Certified in accordance with Equipment Directive 97/23/EC

Probe Design

Standard materials Stainless steel DIN 1.4435/316L, sapphire

Process connectors Screw fittings such as Swagelok 1/4", further connectors upon request

Options

Heating jacket to be used for different heat carriers

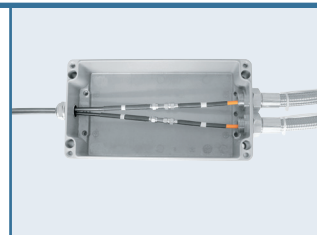
Alternative materials Stainless steel DIN 1.4571/SS316Ti, titanium, hastelloy, monel etc.

Other Additional designs, dimensions and specifications upon request

Total Service – from Flow Cells to a Complete Range of Accessories

We offer much more than just fiberoptic flow cells. Our comprehensive accessory program includes everything you need for implementing our cells as well as reliable coupling solutions for almost any type of spectrometer.

Ask us about the optimal solution for you.



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