

Sealed in Any Case

Hermetic Feedthroughs for Fiber Optics



To use optical fibers in pressure chambers or vacuum applications, they have to be guided from the outside into the inner environment. Feedthroughs that can withstand high pressure and also feature high temperature stability are used for this purpose. LASER COMPONENTS offers a new range of products for multi-mode, single-mode, and PM fibers that are suited for high-vacuum (HV), ultrahigh-vacuum (UHV), and high-pressure applications.

Two versions are available: Direct and connector-based feedthroughs. Direct fiber feedthroughs without a connection option at the flange make it possible to achieve high packing densities at a good price/performance ratio. Connector-based feedthroughs are particularly flexible since the fibers outside and inside the chamber are interchangeable. This is particularly advantageous when using sensitive fibers or during maintenance work inside the chamber in which the connectors can be separated easily.

LASER COMPONENTS' feedthroughs are available at different pressure levels from 10^{-5} to 10^{-12} mbar l/s and for different ISO flanges (e.g., KF and CF flanges). For baking-out purposes, temperatures of up to 180°C can be specified.

In addition to standard flanges, custom assemblies can also be provided. The mechanical and optical design is customized to meet the customers requirements. A hermetic seal is also available for gases and liquids.

More Information

<http://www.lasercomponents.com/de-en/product/hermetic-feedthrough/>

Trade Shows

Anga Com 2015, Jun, 09 - 11, 2015, Messe Köln, Germany, **Booth 10.2/J35**
Sensors Expo & Conference 2015, Jun 9-11, 2015, Long Beach Convention Center, CA, **Booth 924**
LASER. World of Photonics 2015, Jun, 22 - 25, 2015, Messe München, Germany, **Booth B3.303**

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 170 employees worldwide.