

Your partner for vacuum technology
and space simulation



Hermetic Feedthroughs

for vacuum applications



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JUST VACUUM supplies hermetic feedthroughs in the HV and UHV range for the transfer of electrical currents, signals, optical fibers, fluids, or mechanical movements into the vacuum. The feedthroughs are manufactured individually according to customer requirements and, depending on the requirements, tested for leak tightness up to a leakage rate of 10^{-10} mbar l/s. Oftentimes different feedthroughs can be combined on any flange system, and the use of different insulation materials is also possible. Of course, we also supply the suitable connectors for use in vacuum and atmosphere.

C-24308 or DIN 41652-1) are available with 9 up to 50 pins and can be freely combined. Our portfolio also includes versions with a higher pin density or for high currents.

- **Cable feedthroughs** are completely manufactured in our own production. Different cable types with almost any cross-section and desired length on the atmosphere and vacuum side can be selected. For this purpose, the cables are preferably cast into a KF flange socket using a special process.
- **Thermocouple feedthroughs** for temperature measurement in vacuum. As with cable feedthroughs, thermocouple cables (e.g., types T, K or J) are fixed into a flange socket using a potting compound. The conductor length on the atmospheric and vacuum side can be selected as needed.
- **Multipin feedthroughs** for the transmission of various measuring, regulating and control signals. Standard designs such as D-Sub (MIL-

- **Coaxial feedthroughs** for the transport of electrical signals with external shielding. In addition to SMA or BNC feedthroughs, MHV and SHV versions are also available for the in part high-frequency signals. These can be positioned anywhere on a flange.
- **Optical fiber feedthroughs** with different fiber thickness for defined wavelengths can be supplied as welded version as well as screwed feedthrough.
- **High voltage and power feedthroughs** allow the transmission of high voltages or currents into vacuum. Various versions with up to 30 kV or 1000 A are available here.
- **Fluid feedthroughs** for gases and liquids in a temperature range between -196 °C and $+350$ °C can be configured with a requested pipe diameter. The ends can be left free or welded or screwed with various adapters.
- **Mechanical feedthroughs** for transmitting longitudinal and/or rotary movements. The manipulators and alignment units are available in both manual and automated versions.

