

KTRAV-M8V and M12V: Fiber-optic hermetic feedthroughs for vacuum



SEDI-ATI by Fiber Optics Group expands its range of hermetic feedthroughs with an offer dedicated to vacuum and ultra-high vacuum applications.

Building on its expertise and extensive experience in extreme environments, SEDI-ATI is expanding its range of screw-in hermetic feedthroughs by launching two new models specifically designed for vacuum and ultra-high vacuum applications, and compatible with cryogenic environments: the **KTRAV-M8V** and **KTRAV-M12V**. Through these innovations, SEDI-ATI continues to push boundaries to meet its customers' technological challenges.

Intended for integration into equipment such as **quantum computers, cryostats, particle accelerators**, or even **industrial or space instrumentation** systems, these new optical feedthroughs meet the demanding requirements of vacuum chambers where **compactness, performance, robustness**, and a high level of **hermeticity** are key criteria.

The **KTRAV-M8V** and **KTRAV-M12V** are **compact single-channel** hermetic feedthroughs with an **M8 or M12 thread**. Unlike other models in the range, they are exclusively designed for **vacuum and ultra-high vacuum applications**, achieving leak rates in the order of **10⁻⁸ to 10⁻⁹ mbar.l/s**. The final “V” in their names, in fact, stands to “**Vacuum**”.

The **KTRAV-M8V**, the most compact threaded feedthrough offered by SEDI-ATI (length: 43.2 mm), is made entirely of **stainless steel** (both body and ferrule), guaranteeing both **robustness** and **zero outgassing**. It is available in **SMA/SMA version**.

The **KTRAV-M12V** is a variation of SEDI-ATI 's iconic KTRAV-M12 hermetic feedthrough (designed for both vacuum and pressure applications up to 1000 bars). Smaller and more compact (67 mm versus 98 mm for the KTRAV-M12), the KTRAV-M12V is available in **FC/PC and FC/APC versions**. It is also suitable for **cryogenic environments** where resistance to extremely low temperatures (down to 1.5 K) is an essential criterion.

About SEDI-ATI by Fiber Optics Group

SEDI-ATI is a French company founded in 1951. Since 2023, it has been a subsidiary of FOG (Fiber Optics Group), an international organization committed to innovation and sustainability in the field of fiber optic assemblies. SEDI-ATI designs, develops and manufactures fiber-optic components and assemblies, such as multi-fiber assemblies, hermetic feedthroughs, and optical couplers. More specifically, the company designs custom-made hermetic feedthroughs – in-line, flange-mounted, or multi-channel – adapted for vacuum, pressure or cryogenics applications. SEDI-ATI specializes in complex and extreme environments across defense, aerospace, nuclear, and geophysical markets.

More information

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