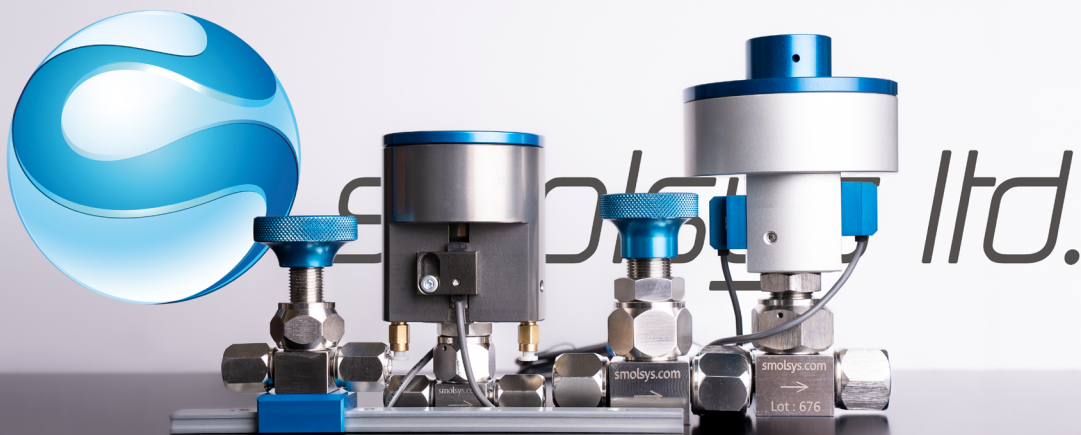


# *smolsys ltd.*

Your Partner in **Tritium** handling  
and **High Vacuum Technology**



## Tritium Solutions

- ☉ Magnetically driven tritium syringe-type pressure pumps, up to 100 bar
- ☉ Custom tritium machine building and automation
- ☉ Glove boxes and flow-through boxes, custom tritium container labs
- ☉ Scrubber systems and hot/cold getter beds



*smolsys ltd.*

### **NEW:** Tritium «Micro Raman Spectrometer»

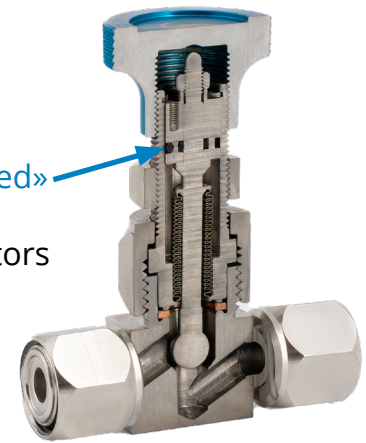
A compact and reliable off-the-shelf, Plug & Produce device. The optimal tool for cost-efficient inline isotopologue differentiation.

Developed and successfully tested over several years by KIT (Karlsruhe Institute of Technology) for the KATRIN experiment. Produced by smolsys. Available September 2025.



## High Vacuum Technology

- ☉ smolsys safe ¼ inch to 1.5 inch all-metal bellows tritium valves, «dual-sealed»
- ☉ Pneumatic, compact, dual-sensored actuators
- ☉ Fast-change rail system
- ☉ Lockable handwheel for safe handling
- ☉ High-temperature heaters and vacuum chambers



### **Engineered based on experience...**

Our products and systems are engineered based on decades of experience in daily tritium product manufacturing and gas handling (gaseous tritium light sources).

Proven in the harsh environments of industrial tritium applications, they are optimized for one purpose – safe tritium handling.

**smolsys Ltd.**

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