

# Vent-free GC/MS Adapter

A simple interface used with Py-GC/MS allowing easy switching of separation columns.

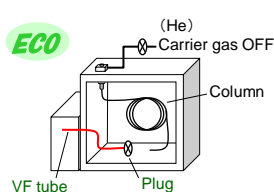
Vent-free GC/MS Adapter<sup>1)</sup> is a simple and useful interface used for GC/MS analysis, and allows switching of a GC separation columns while the MS detector is in operation by connecting a highly deactivated capillary tube between the separation column and the MS detector. Changing columns takes only a few minutes.

The Vent-free GC/MS Adapter is especially useful when a Py-GC/MS separation column and a capillary tube for evolved gas analysis (EGA) are switched between analysis using a Multi-Shot Pyrolyzer. The Vent-free GC/MS Adapter is engineered and manufactured by Frontier Laboratories.

1) C. Watanabe, et al., Anal. Sci., 2011, 27(11), 1087

## Features

- It allows fast switching of a separation column and/or an EGA tube without venting the MS detector which saves time and increases productivity.
- When the Vent-free GC/MS Adapter is not in use, attach a plug at the end of the VF tube as shown in the figure on the right. This will greatly save the consumption of the carrier gas.
- The VF tube is rugged and inert and will not absorb polar species when in use.
- Vent-free GC/MS Adapter is easily installed by users.



## Specifications

### Supported GC/MS

Part number: MS402280 (1 set)

- ◆ Agilent (5977, 5975, 5973)
- ◆ Shimadzu (QP2010)
- ◆ JEOL (K9, etc.)
- ◆ Thermo Fisher (DSQ, ISQ series): TRACE1300/1310 GC

Part number: MS402290 (1 set)

- ◆ Thermo Fisher (DSQ, ISQ series): TRACE Ultra, Focus GC

Part number: MS402295 (1 set)

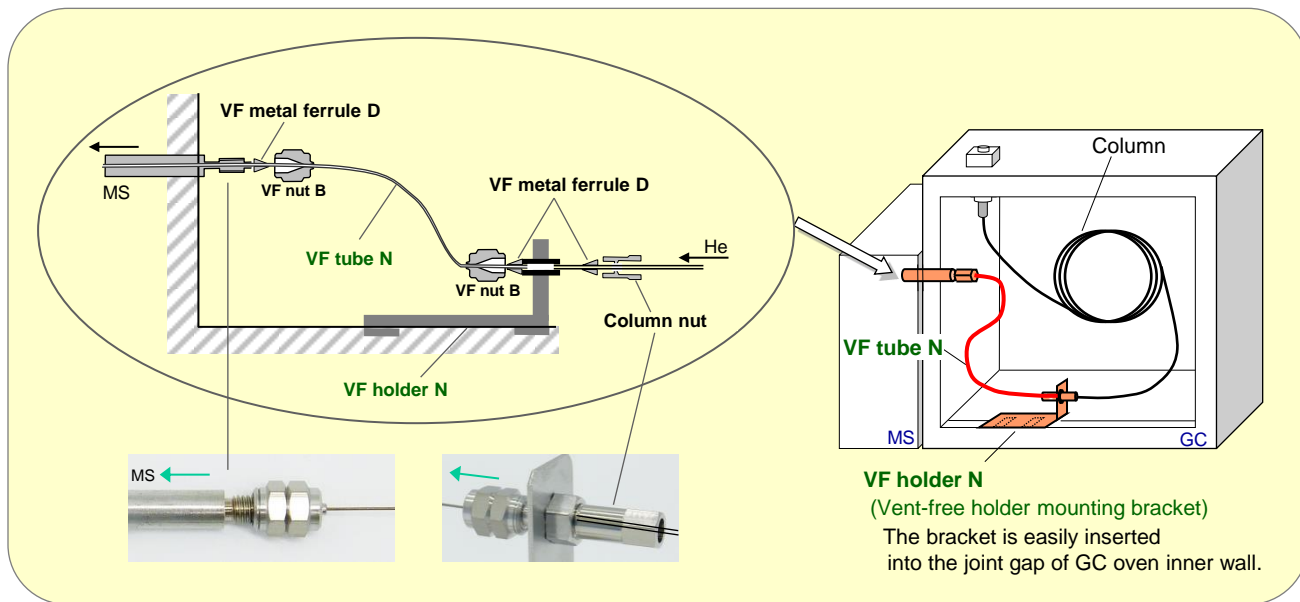
- ◆ PerkinElmer (Clarus series)
- ◆ Other Quadrupole GC/MS

- Maximum temperature: 400°C (320°C for MS402290)

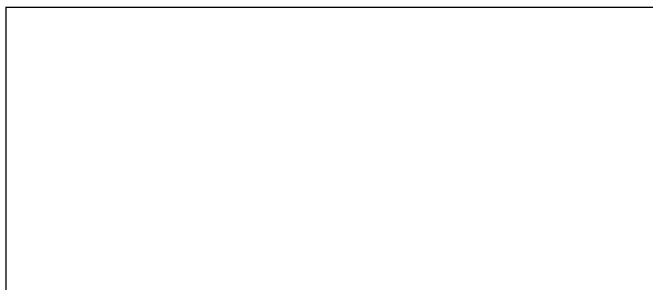
### Column

- ◆ Ultra ALLOY™ (0.15 / 0.25 mm i.d.)
- ◆ Fused Silica (0.25 / 0.32 mm i.d.)

\* TM : Trademark of Frontier Laboratories Ltd.



Flow diagram of Vent-free GC/MS Adapter connected to a GC/MS



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