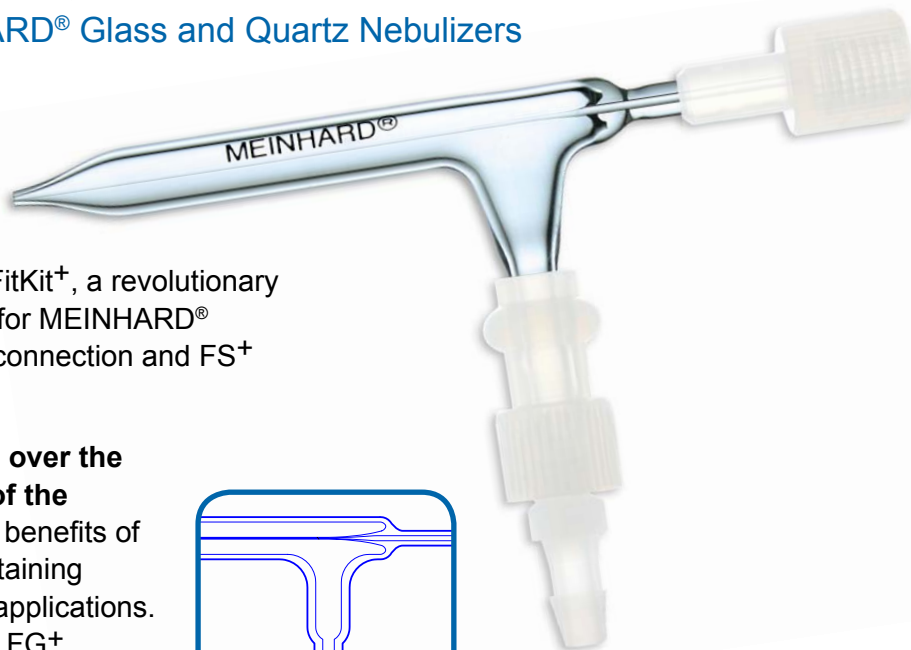


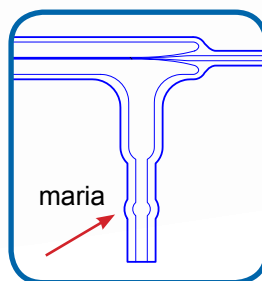
## PFA FitKit<sup>+</sup> Quick Connects

Quick Connection Kits for MEINHARD® Glass and Quartz Nebulizers



Elemental Scientific introduces the PFA FitKit<sup>+</sup>, a revolutionary new sample and gas connection system for MEINHARD® nebulizers. The kit includes an FG<sup>+</sup> gas connection and FS<sup>+</sup> sample connection.

**FG<sup>+</sup> gas connection forms a tight seal over the bubble-shaped maria on the sidearm of the MEINHARD® nebulizers.** FG<sup>+</sup> offers the benefits of an easy-to-use quick connect while maintaining high-purity for sensitive ICP and ICPMS applications. In a test that simulated a backflow event, FG<sup>+</sup> produced concentrations of elements like Fe and Cr that were four orders of magnitude lower than concentrations leached from a conventional fitting (Figure 1).



### Benefits include:

- High-purity PFA fluoropolymer construction
- Easy to connect and disconnect
- One connection fits any MEINHARD® nebulizer

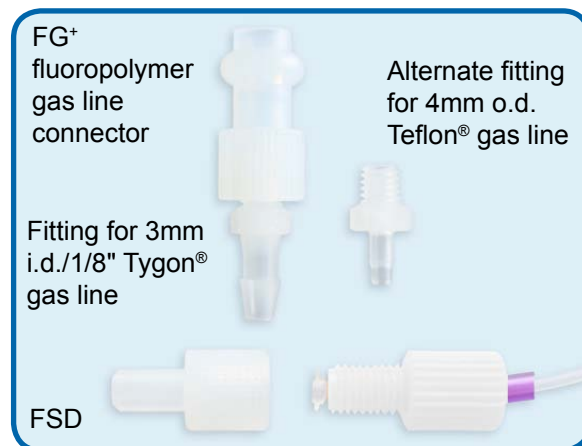
**FS<sup>+</sup> sample connection is a low dead-volume quick connect for small bore MEINHARD® nebulizers.** FS<sup>+</sup> offers a fast stabilization time and a reliable seal with chemically resistant PFA. Three versions are available in a variety of flow rates for different ICP and ICPMS applications.

### Benefits include:

- Fast stabilization time and ultra-low dead-volume
- High-purity PFA fluoropolymer construction
- Easy to connect and disconnect

FS<sup>+</sup> connectors available:

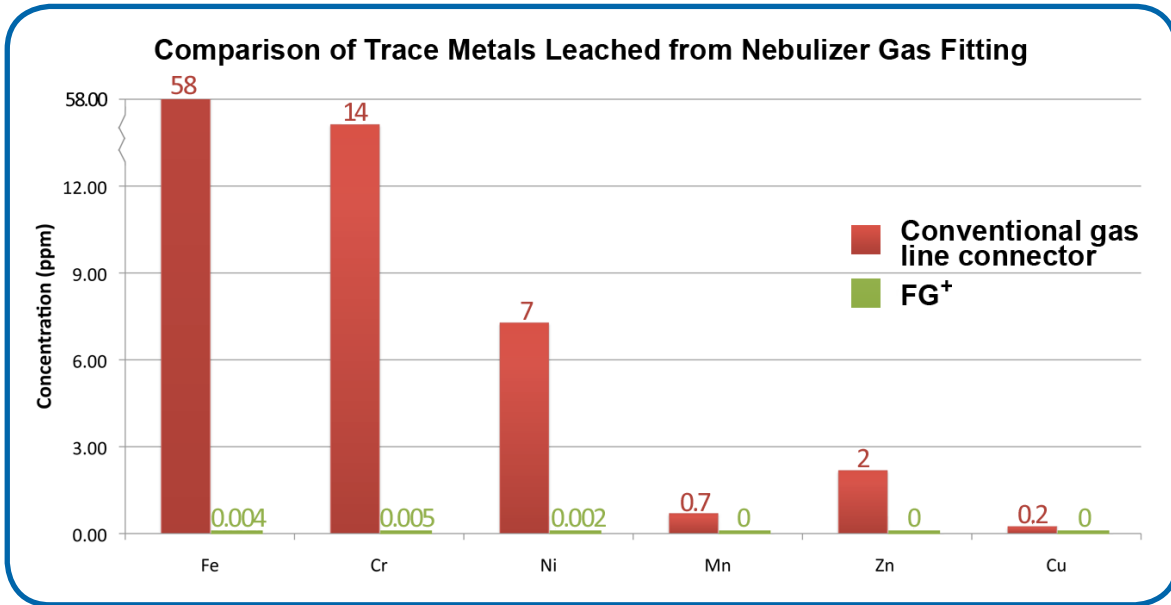
- FSD:** Detachable capillary for a wide range of applications. Comes standard with all nebulizers.
- FS1:** Encapsulated microtubing for microflow rates guarantees lowest internal volume of any nebulizer.
- FS2:** Standard integrated capillary for self-aspiration or pumping.



PFA FitKit<sup>+</sup> Quick Connects with standard FS<sup>+</sup> sample connection.



Other FS<sup>+</sup> sample connections are available for different ICP and ICPMS applications.



Conventional gas line connector



PFA FG<sup>+</sup> quick connect gas line

**Figure 1. Leach test of a conventional gas line connector and PFA FG<sup>+</sup>**

A conventional gas line connector and PFA FG<sup>+</sup> were both exposed to 5% HNO<sub>3</sub> and 5% HCl. Analysis of the leaching liquid showed that the PFA FG<sup>+</sup> produced up to four orders of magnitude lower contamination than a conventional gas line connector.

### Ordering Information for Nebulizers with PFA FitKit<sup>+</sup>

Nebulizer	Description	Part Number
SilQ <sup>+</sup>	Ultra high purity quartz nebulizer, low internal volume inlet, 0.5 mL/min, 50 psig. Includes PFA FG+ Quick Connect and FS+ self-aspiration probe.	SILQ-50
TQ <sup>+</sup>	Quartz nebulizer, low internal volume inlet, 0.5 mL/min, 50 psig. Includes PFA FG+ Quick Connect and FS+ capillary.	TQP-50
TR <sup>+</sup>	Glass nebulizer, low internal volume inlet, 0.5 mL/min, 50 psig. Includes PFA FG+ Quick Connect and FS+ capillary.	TRP-50