

GC Supplies

SGE ms-NoVent™

How the ms-NoVent™ Works

The ms-NoVent™ prevents air and water from entering the MS during column change-over. The key to the ms-NoVent is the unique Flow Director Orifice and deactivated fused silica interface tube which are located at the MS interface as part of the ms-NoVent Tee.

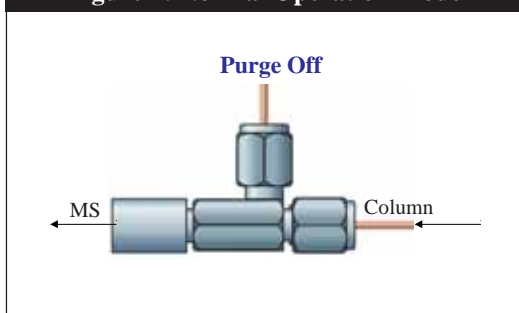
Before the column is removed from the interface, a helium purge is turned on. The fused silica restrictor/interface tube limits the flow of helium into the mass spectrometer. As shown in **Figure 1**, after the column has been removed from the GC, the Flow Director Orifice prevents air from entering the mass spectrometer. Thus, the flow of helium through the orifice acts as a dynamic seal preventing air being sucked back into the MS.

Normal Operation Mode

In normal operation mode the helium purge is turned off. The column flow is directed through to the MS via the fused silica transfer tube.

(Note: the transfer tube and tee in normal operation are under vacuum through the MS interface vacuum).

Figure 2: Normal Operation Mode



Column Change Mode

In the column change mode a helium purge is applied to the interface tee. The column can then be disconnected without shutting down or “venting” the MS. The existing column or a new column can then be connected and the ms-NoVent switched back to normal mode for standard operation.

(Note: there is no time limit as to how long the MS system can be left in the column change mode, as long as helium is available).

Figure 3: Column Change Mode

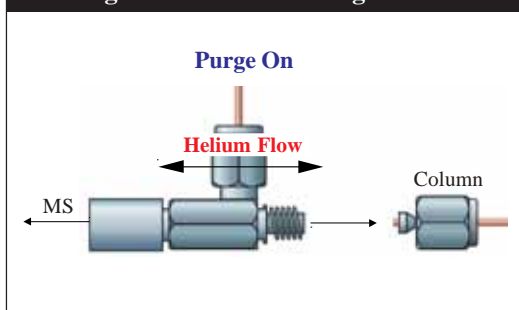
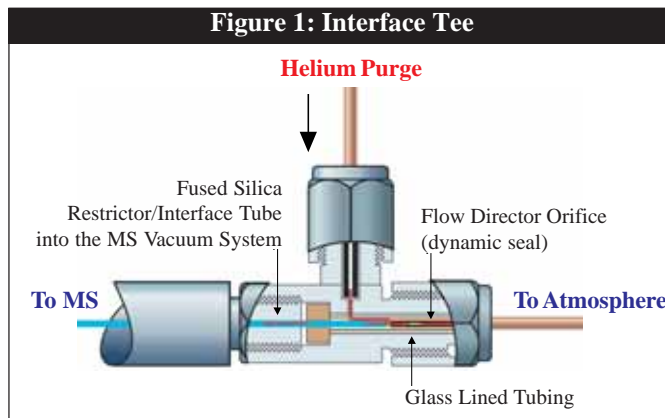


Figure 1: Interface Tee



ms-NoVent™ Ordering Information

Cat. No.	Description
113400*	Standard ms-NoVent™
113402*	ms-NoVent™ for Agilent 6890
113401*	ms-NoVent™ for PE TurboMass/Gold

* Instrument specific restrictor (and adapter if applicable) is not included and must be ordered separately.

Restrictors – No Adapters Required for Installation

Instrument Mfg	Model	Cat. No.	Qty.
Agilent	5970	113405	2
	5971, 5972	113407	2
	5973	113409	2
	GCD	113408	2
	5988A	113424	2
	5989 Engine	113422	2
Perkin Elmer	Turbomass	113435	2
Shimadzu	MS 5000/5050	113411	2
	MS 5000/5050	113429	2

Restrictors – Adapters Required for First Installation

One adapter is included when ordering the catalog numbers below.

Instrument Mfg	Model	Cat. No.	Qty.
Thermo Finnigan	GCQ	113419	2
	SSQ7000	113426	2
	Voyager	113433	2
Varian	Saturn2000	113412	2
	Saturn1, 2, 3	113414	2

Replacement Restrictors – Adapters Required

Adapter is NOT included when ordering the catalog numbers below.

Instrument Mfg	Model	Cat. No.	Qty.
ThermoFinnigan	GCQ	113420	2
	SSQ7000	113427	2
	Voyager	113434	2
Varian	Saturn2000	113413	2
	Saturn1, 2, 3	113416	2