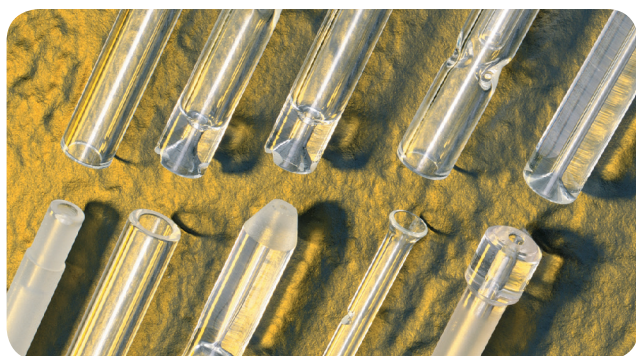


Liners and Seals

Inlet Liners

A regular schedule of inlet liner replacement as part of a preventive maintenance routine will help prevent adsorption problems that can drastically affect chromatography if left unchecked. Inlet liners should be highly inert and manufactured to the strictest of tolerances. We are recognized as a leader in the manufacturing of high quality inlet liners. Popular inlet liner dimensions are listed below. Other inlet liners can be found in our catalog and on our website.



- Proprietary high temperature silanization (a Supelco® portfolio exclusive) ensures inertness
- Our in-house glass shop ensures consistent dimensions that meet, or exceed, GC manufacturers' strict tolerances
- Inlet liners that are packed use a high-quality glass wool, deactivated using our exclusive Supelco® proprietary silanization process

Description	Pkg	Cat. No.
For Agilent 5890/6890/7890 (78.5 mm length x 6.3 mm O.D.)		
Split with cup, 4 mm I.D., unpacked	5 ea	2051005
Split with cup, 4 mm I.D., wool packed	5 ea	2048205
Split straight through, 4 mm I.D., unpacked	5 ea	2879405-U
Split straight through, 4 mm I.D., wool packed	5 ea	2048605
Splitless with single taper, 4 mm I.D., unpacked	5 ea	2046605
Splitless with single taper, 4 mm I.D., wool packed	5 ea	2047805
Splitless with dual taper, 4 mm I.D., unpacked	5 ea	2048505
Splitless straight through, 2 mm I.D., unpacked	5 ea	2051305
Splitless straight through, 1.5 mm I.D., unpacked	5 ea	2051705
SPME, 0.75 mm I.D., unpacked	5 ea	2637505
For Finnigan		
Same catalog numbers as Agilent		
For PerkinElmer AutoSystem and Clarus (92 mm length x 6.3 mm O.D.)		
Split, 4 mm I.D., unpacked	5 ea	2630905
Split, 4 mm I.D., wool packed	5 ea	2631005
Splitless straight through, 2 mm I.D., unpacked	5 ea	2631105
SPME, 0.75 mm I.D., unpacked	5 ea	2631205
For Shimadzu® 17A with SPL-17 Injector (95 mm length x 5 mm O.D.)		
Split, 3.4 mm I.D., unpacked	5 ea	2633605
Split, 3.4 mm I.D., wool packed	5 ea	2632705

Description	Pkg	Cat. No.
Splitless with middle gooseneck, 3.4 mm I.D., unpacked	5 ea	2878305-U
Splitless with recessed gooseneck, 3.4 mm I.D., wool packed	5 ea	2877905-U
Splitless straight through, 2.6 mm I.D., unpacked	5 ea	2633705
SPME, 0.75 mm I.D., unpacked	5 ea	2633905
For Thermo® ThermoQuest 8000/TRACE® (105 mm length x 8 mm O.D.)		
Split, 5 mm I.D., unpacked	5 ea	2877105-U
Split, 3 mm I.D., unpacked	5 ea	2876705-U
Splitless with single taper, 5 mm I.D., unpacked	5 ea	2877305-U
Splitless with single taper, 3 mm I.D., unpacked	5 ea	2877405-U
SPME, 0.8 mm I.D., unpacked	5 ea	2876605-U
For Varian 1075/1077 Injectors (72 mm length x 6.3 mm O.D.)		
Split with baffle, 4 mm I.D., unpacked	5 ea	2050105
Split, 4 mm I.D., unpacked	5 ea	2636105
Split, 4 mm I.D., wool packed	5 ea	2636005
Splitless, 2 mm I.D., unpacked	5 ea	2050205
SPME, 0.75 mm I.D., unpacked	5 ea	2635805
For Varian 1078/1079 Injectors (54 mm length x 5 mm O.D.)		
Split, 3.4 mm I.D., unpacked	5 ea	2637105
Split, 3.4 mm I.D., wool packed	5 ea	2637305
Splitless, 2 mm I.D., unpacked	5 ea	2637405
Splitless, 2 mm I.D., wool packed	5 ea	2637705
SPME, 0.8 mm I.D., unpacked	5 ea	2637805
For Varian CP-1177 Injectors		
Same catalog numbers as Agilent		

Glass Wool



Puller/Inserter





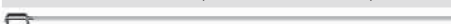




Glass wool is a fine pliable untreated glass fiber. Silanized glass wool and Pesticide Grade glass wool undergo a proprietary deactivation process to remove active sites that may interfere with an analysis.

- Maximum temperature 400 °C
- Silanized – use where minimal activity is required
- Pesticide Grade – use in the analysis of pesticides
- Phosphoric Acid Treated – use in the analysis of free acids, phenols and glycols
- Puller/Inserter – easily inserts or removes glass wool plugs

Description	Pkg	Cat. No.
Silanized	50 g	20411
Pesticide Grade	10 g	20409
Phosphoric Acid Treated	50 g	20383
Puller/Inserter Tool	2 g	22406

Deactivated Glass Liners for Packed Column Injection Ports

We can prepare liners to your specifications. Just call our Ordering and Customer Service Departments for a quote. These deactivated glass liners prevent reaction between active sample components and the injection port's metal surfaces.





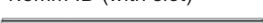
INSTRUMENT MANUFACTURER & MODEL	LINER DESCRIPTION	MFR. PART NO.	QTY.	CAT. NO.	PRICE
AGILENT/HP 5700, 5830/40A, 5880A, 5890A					
	Glass liner	5080-8732	5	20508	
91.5mm x 3mm OD	1.8mm ID		25	20511	
PERKIN-ELMER 3920					
	Glass liner (small bore)	0009-1614	1	26301	
143mm x 4.6mm OD	1.5mm ID				
PERKIN-ELMER 8000, SIGMA 2000/2100, SIGMA 1B-4B & 300 MANUFACTURED 1978 OR LATER					
	Glass liner	0330-2221	1	26300-U	
101mm x 4.6mm OD	2.75mm ID		5	26409	
PERKIN-ELMER AUTO SYSTEM, MODEL 9000					
Unpacked	Packed column	N610-1048	1	2631601	
	3mm ID		5	2631605	
112mm x 6mm OD			25	2631625	
Packed (deactivated glass wool)	For dirty samples		5	2631705	
	3mm ID		25	2631725	
112mm x 6mm OD					
VARIAN UNIVERSAL FLASH INJECTORS 1060-60, 3300, 3400, 3500-3600, OLDER 3700/VISTA					
	Glass injector insert	37-000813-00	1	26369	
72mm x 6.3mm OD	(wool packed)		5	26426	
			25	26481	
VARIAN MODULINE AND OTHER OLDER MODELS					
	Glass insert	6-000107-01	10	26370-U	
5 1/2"/14cm x 1/8" OD	1.8mm ID				

Deactivated Glass Liners for Capillary Injection Ports

A regular schedule of inlet liner replacement will help prevent adsorption problems that can otherwise drastically affect analysis. We also can prepare replacement liners for other instruments or unique liners from your own design. Just call for a quote.

Our liners feature:

- High temperature silanization, to ensure inertness
- Consistent dimensions, tolerances and quality
- In-house manufacturing that meets or exceeds instrument manufacturer's specifications

INSTRUMENT MANUFACTURER & MODEL	APPLICATION	MFR. PARTNO.	QTY.	CAT. NO.	PRICE
ATAS OPTIC 2 HIGH VOLUME INJECTOR					
Unpacked with single frit			1	2632601	
			5	2632605	
			25	2632625	
80mm x 5mm OD x 3mm ID					
CARLO ERBA/FISONS MODEL 6000 SERIES					
HS glass (2mm ID)	Trace analytes	45300300	1	2632001	
			5	2632005	
			25	2632025	
79.5mm x 5.5mm OD					
HS glass (4mm ID)	Trace analytes	45300400	5	2632105	
			25	2632125	
79.5mm x 5.5mm OD					
4mm ID (with slot)	High & low MW analytes	45320010	1	2632301	
			5	2632305	
99mm x 5.5mm OD					
1.8mm ID (with slot)	Trace analytes	45320020	1	2632401	
			5	2632405	
99mm x 5.5mm OD					

Splitless
















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Inlet Liners

	INSTRUMENT MANUFACTURER & MODEL	APPLICATION	MFR. PARTNO.	QTY.	CAT. NO.	PRICE
AGILENT/HP MODELS 4890, 5880, 5890, 6890						
Split	Cup (unpacked)	High & low MW analytes	18740-80190	5	2051005	
				25	2051025	
	78.5mm x 6.3mm OD					
	Cup (wool packed)	Dirty samples	18740-80190 ¹	1	2048201	
				5	2048205	
	78.5mm x 6.3mm OD			25	2048225	
	Cup (packed w/ 10% OV-1 on Chromosorb-W HP)	Dirty samples Traps non-volatiles Reduces discrimination	18740-60840	1	2055101	
				5	2055105	
	78.5mm x 6.3mm OD			25	2055125	
	Split/splitless (4mm ID, wool packed)	General For 7673 autosampler	19251-60540	1	2048601	
	5			2048605		
78.5mm x 6.3mm OD	25			2048625		
Splitless	2mm ID	Trace analytes Samples <2µL	18740-80220 ² 5181-8818	1	2051301	
				5	2051305	
	78.5mm x 6.5mm OD			25	2051325	
	Dual-tapered	Active analytes in trace quantities	5181-3315	1	2048501	
				5	2048505	
	78.5mm x 6.5mm OD			25	2048525	
	Tapered (unpacked)	Active analytes in trace quantities	5181-3316	1	2046601	
				5	2046605	
	78.5mm x 6.5mm OD			25	2046625	
	Tapered (wool packed)	General For 7673 autosampler	5062-3587	1	2047801	
	5			2047805		
78.5mm x 6.5mm OD	25			2047825		
Direct	0.75mm ID	SPME ³ Small volume	no equivalent	1	2637501	
				5	2637505	
	78.5mm x 6.3mm OD			25	2637525	
	1.5mm ID	Headspace & purge/trap devices	18740-80200	1	2051701	
				5	2051705	
78.5mm x 6.5mm OD	25	2051725				
FINNIGAN MODELS 9001, GCQ						
Split	Cup (unpacked)	High & low MW analytes	18740-80190	5	2051005	
				25	2051025	
	78.5mm x 6.3mm OD					
	Cup (wool packed)	Dirty samples	18740-80190 ¹	1	2048201	
				5	2048205	
	78.5mm x 6.3mm OD			25	2048225	
	Cup (packed w/ 10% OV-1 on Chromosorb-W HP)	Dirty samples Traps non-volatiles Reduces discrimination	18740-60840	1	2055101	
				5	2055105	
	78.5mm x 6.3mm OD			25	2055125	
	Split/splitless (4mm ID, wool packed)	General For 7673 autosampler	19251-60540	1	2048601	
	5			2048605		
78.5mm x 6.3mm OD	25			2048625		
Splitless	2mm ID	Trace analytes Samples <2µL	18740-80220 ² 5181-8818	1	2051301	
				5	2051305	
	78.5mm x 6.5mm OD			25	2051325	

¹ Supelco version has been modified to enhance performance.

² Instrument manufacturer's nondeactivated liner

³ Solid Phase Microextraction

	INSTRUMENT MANUFACTURER & MODEL	APPLICATION	MFR. PARTNO.	QTY.	CAT. NO.	PRICE	
FINNIGAN MODELS 9001, GCQ (CONT'D)							
Splitless	Dual-tapered 	Active analytes in trace quantities	5181-3315	1 5 25	2048501 2048505 2048525		
	78.5mm x 6.5mm OD Tapered (unpacked) 	Active analytes in trace quantities	5181-3316	1 5 25	2046601 2046605 2046625		
	78.5mm x 6.5mm OD Tapered (wool packed) 	General For 7673 autosampler	5062-3587	1 5 25	2047801 2047805 2047825		
	78.5mm x 6.5mm OD 0.75mm ID 	SPME ³ Small volume	no equivalent	1 5 25	2637501 2637505 2637525		
	78.5mm x 6.3mm OD 1.5mm ID 	Headspace & purge/trap devices	18740-80200	1 5 25	2051701 2051705 2051725		
	78.5mm x 6.5mm OD						
PERKIN-ELMER MODELS 2000, 8000							
Split	Wide bore, 4mm ID 	General purpose Dirty samples	0330-5181	1 5 25	2630301 2630305 2630325		
	100mm x 5mm OD narrow bore, 2mm ID 	Trace analytes	0330-5180	1 5 25	2630401 2630405 2630425		
Splitless	100mm x 5mm OD Glass (unpacked) 	For high linearity	N600-2017	1 25	2630601 2630625		
	88mm x 2mm						
PERKIN-ELMER AUTO SYSTEM, MODEL 9000 SPLIT/SPLITLESS CAPILLARY INJECTOR							
Split		General purpose	N610-1052 N612-1001 ⁴	1 5 25	2630901 2630905 2630925		
	92mm x 0.25" OD x 4mm ID Packed (deactivated glass wool) 	General purpose Dirty samples		5 25	2631005 2631025		
Splitless	92mm x 0.25" OD x 4mm ID 	Trace analytes	N612-1002 ⁴	5 25	2631105 2631125		
	92mm x 0.25" OD x 2mm ID 	SPME		5	2631205		
On-Column	92mm x 0.25" OD x 0.75mm ID						
	PERKIN-ELMER PROGRAMMED SPLIT/SPLITLESS INJECTION (PSS)						
	Split			N612-1004 ⁴	1 5 25	2631301 2631305 2631325	
		86mm x 4mm OD x 2mm ID					
Splitless		Trace analytes	N612-1006 ⁴	5	2631405		
	86mm x 4mm OD x 1mm ID 	Thermolabile Trace analytes	N610-1539	5	2631505		
	86mm x 4mm OD						

³ Solid Phase Microextraction.
⁴ Instrument manufacturer's quartz liner.

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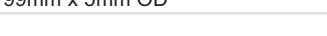
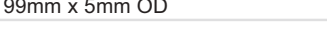
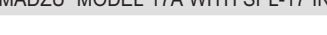

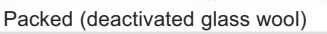




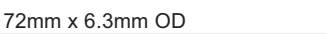





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Inlet Liners















INSTRUMENT MANUFACTURER & MODEL		APPLICATION	MFR. PARTNO.	QTY.	CAT. NO.	PRICE
SHIMADZU MODELS 9A/AM/15A/16 WITH SPL-G9/15 INJECTORS						
Split		High & low MW analytes	221-25822-01	1	2633001	
				5	2633005	
				25	2633025	
Splitless		Trace analytes	221-25440-03	1	2633101	
				5	2633105	
				25	2632901	
Splitless/SPME		SPME		1	2632901	
				5	2632905	
				25	2632925	
SHIMADZU MODELS 14/15A/16 WITH SPL-14 INJECTORS						
Split		General purpose	221-32544-01	1	2633301	
				5	2633305	
				25	2633325	
Splitless/SPME		Trace analytes	221-32544-00	1	2633401	
				5	2633405	
				25	2633425	
Splitless/SPME		SPME		1	2633501	
				5	2633505	
				25	2633525	
SHIMADZU MODEL 17A WITH SPL-17 INJECTORS						
Split		General purpose	221-41444-00	1	2633601	
				5	2633605	
				25	2633625	
Splitless/SPME		Dirty samples		5	2632705	
				25	2632725	
				25	2632725	
Wide Bore Splitless/SPME		Packed (deactivated glass wool)		5	2633705	
				25	2633725	
				25	2633725	
Wide Bore Splitless/SPME		SPME		1	2633901	
				5	2633905	
				25	2633925	
Wide Bore Splitless/SPME		Internal taper	221-41599	1	2633801	
				5	2633805	
				25	2633825	
Wide Bore Splitless/SPME		Wide bore capillary columns		1	2633801	
				5	2633805	
				25	2633825	
VARIAN 1075/1077 INJECTORS						
Split		Unpacked	16-000830-00 ²	1	2636101	
				5	2636105	
				25	2636125	
Split		72mm x 6.3mm OD with frit	16-000830-01 ²	1	2050501	
				5	2050505	
				25	2050525	
Split		72mm x 6.3mm OD Wool packed	01-900109-03	1	2050501	
				5	2050505	
				25	2050525	
Split		Dirty samples	01-900109-01	1	2636001	
				5	2636005	
				25	2636025	
Split		72mm x 6.3mm OD Packed w/ 10% OV-101 on Chromosorb W HP 80/100	03-949809-00 ²	1	2055501	
				5	2055505	
				25	2055525	
Split		Complete vaporization Aids thermal transfer		1	2055501	
				5	2055505	
				25	2055525	
Split		72mm x 6.3mm OD		1	2055501	
				5	2055505	
				25	2055525	

² Instrument manufacturer's nondeactivated liner.

³ Solid Phase Microextraction.

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	INSTRUMENT MANUFACTURER & MODEL	APPLICATION	MFR. PARTNO.	QTY.	CAT. NO.	PRICE
VARIAN 1075/1077 INJECTORS (CONT'D)						
Split	with baffle 	Analytes with close boiling points	16-000829-00 ² 01-900109-04	1	2050101	
				5	2050105	
				25	2050125	
Split	72mm x 6.3mm OD Cup (unpacked) 	High & low MW analytes	01-900109-02	1	2049801	
				5	2049805	
				25	2049825	
Splitless/SPME	72mm x 6.3mm OD Straight 	Trace analytes	03-949437-90 ² 01-900109-05	1	2050201	
				5	2050205	
				25	2050225	
Splitless/SPME	74mm x 6.3mm OD 0.75mm ID 	SPME Small volume	no equivalent	1	2635801	
				5	2635805	
				25	2635825	
Direct	74mm x 6.35mm OD Fused silica 	High linearity (0.25/0.32mm ID columns)	03-908725-00	1	2636201	
				5	2636205	
Universal Flash	72mm x 6.3mm OD Glass flash inserts (0.53mm ID columns) 		03-918339-00	1	2636801	
				5	2636805	
				25	2636825	
	73mm x 0.25" OD					
VARIAN 1093-94 SPI INJECTOR						
Direct/SPME	Glass insert (high performance) 	High linearity (0.25 & 0.32mm ID columns)	03-918332-01 ² 01-900109-06 01-900066-18	1	2636301	
				5	2636305	
				25	2636325	
Direct/SPME	54mm x 4.6mm OD Flash & on-column insert (0.53mm ID column) 	High linearity (0.53mm ID columns) SPME	03-918332-02 ² 01-900109-07 01-900066-19	1	2636401	
				5	2636405	
				25	2636425	
Direct/SPME	54mm x 4.6mm OD Glass insert (wool packed) 	Dirty samples	01-900109-08	5	2636505	
				25	2636525	
	54mm x 4.6mm OD					
VARIAN 1078/1079 INJECTOR						
Split	Frit 	Instantaneous sample vaporization	03-918464-01	1	2637201	
				5	2637205	
				25	2637225	
Split	54mm x 5mm OD x 3.4mm ID Unpacked 		03-918464-00	1	2637101	
				5	2637105	
				25	2637125	
Split	54mm x 5mm OD x 3.4mm ID Packed 		03-918956-00	1	2637301	
				5	2637305	
				25	2637325	
Splitless/SPME	54mm x 5mm OD x 3.4mm ID Unpacked 	Minimizes dead volume	03-918466-00	1	2637401	
				5	2637405	
				25	2637425	
Splitless/SPME	54mm x 5mm OD x 2mm ID 	SPME	03-925330-00	1	2637801	
				5	2637805	
	54mm x 5mm OD x 0.8mm ID					

² Instrument manufacturer's nondeactivated liner.

³ Solid Phase Microextraction.





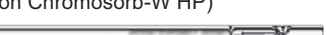
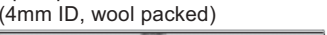





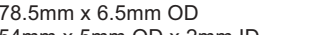
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Inlet Liners

	INSTRUMENT MANUFACTURER & MODEL	APPLICATION	MFR. PARTNO.	QTY.	CAT. NO.	PRICE
VARIAN 1078/1079 INJECTOR (CONT'D)						
Splitless	 54mm x 5mm OD x 0.5mm ID	Trace analytes	03-925331-00	1	2637601	
		Thermolabile and polar compounds		5	2637605	
	 Packed (deactivated glass wool)	Nonpolar compounds	03-925350-00	1	2637701	
				5	2637705	
				25	2637725	
VARIAN MODEL CP-1177 INJECTOR						
Direct	 Cup (unpacked) 78.5mm x 6.3mm OD	High & low MW analytes	18740-80190	5	2051005	
				25	2051025	
	 Cup (wool packed) 78.5mm x 6.3mm OD	Dirty samples	18740-80190 ¹	1	2048201	
				5	2048205	
				25	2048225	
Direct	 Cup (packed w/ 10% OV-1 on Chromosorb-W HP) 78.5mm x 6.3mm OD	Dirty samples		1	2055101	
		Traps non-volatiles Reduces discrimination	18740-60840	5	2055105	
				25	2055125	
	Splitless	 Split/splitless (4mm ID, wool packed) 78.5mm x 6.3mm OD	General		1	2048601
For 7673 autosampler			19251-60540	5	2048605	
				25	2048625	
Splitless		 2mm ID 78.5mm x 6.5mm OD	Trace analytes	18740-80220 ²	1	2051301
	Samples <2µL		5181-8818	5	2051305	
				25	2051325	
	Splitless	 Dual-tapered 78.5mm x 6.5mm OD	Active analytes in trace quantities	5181-3315	1	2048501
				5	2048505	
				25	2048525	
Splitless		 Tapered (unpacked) 78.5mm x 6.5mm OD	Active analytes in trace quantities	5181-3316	1	2046601
				5	2046605	
				25	2046625	
	SPME	 Tapered (wool packed) 78.5mm x 6.5mm OD	General	5062-3587	1	2047801
For 7673 autosampler				5	2047805	
				25	2047825	
SPME		 0.75mm ID 78.5mm x 6.3mm OD	SPME ³	no	1	2637501
	Small volume		equivalent	5	2637505	
				25	2637525	
	SPME	 1.5mm ID 78.5mm x 6.5mm OD	Headspace & purge/trap devices	18740-80200	1	2051701
				5	2051705	
				25	2051725	

¹ Supelco version has been modified to enhance performance

² Instrument manufacturer's nondeactivated liner.

³ Solid Phase Microextraction.

Ferrules/Metal Spacers for 5mm
Shimadzu Inlet Liners and Columns

Replace Shimadzu part number 221-15563-91.

DESCRIPTION	CAT. NO.	PRICE
Ferrules for Shimadzu Liners (pk. of 4)	23311	

Order: 1.800.325.3010 Technical Service: 1.800.359.3041 Web: www.sigma-aldrich.com/supelco

GC Accessories Injection Sleeves



A syringe with a 6"/15.24cm needle is required to deposit samples properly within the sleeve.

Cool On-Column Injection Sleeve Kit

Minimize splitter discrimination - Splitter discrimination among sample components that have different boiling points causes inaccurate quantification among components. Using our 6.25"/16cm x 1/4" Cool On-Column Injection Sleeve (Cat. No. 20476) in conjunction with a 0.53mm ID SPB-1 Thin Film capillary column, we found splitter discrimination was negligible for paraffins up to C44.

The sleeve was designed for use with a 0.53mm ID fused silica column. Use the hardware supplied in the injection sleeve kit (Cat. No. 23630) to install the sleeve in a 1/4" packed column injection system (on-column injection only).

DESCRIPTION	CAT. NO.	PRICE
Cool On-Column Injection Sleeve Kit (Injection sleeve plus 1/4" connecting hardware)	23630	
Cool On-Column Injection Sleeve	20476	
Reducing Union	23633	
Male Nuts, 1/16" (pk. of 4)	23805	
Knurled Male Nuts, 1/16" (pk. of 2)	23812	
Hamilton 701N Syringe (10µL), 6"/15.24cm fixed needle	21574	



Injection Tee Kit

Simultaneous analyses on two wide bore columns. This kit enables you to characterize samples on two wide bore columns of different polarity. The tee is deactivated and the inlet chamfered for use with automatic samplers. Use in 1/4" injection ports.

Kit includes deactivated glass tee, two 1/4" x 1/16" stainless steel reducing unions, ferrules for 0.53mm and 0.75mm ID columns, and instructions.

DESCRIPTION	CAT. NO.	PRICE
Injection Tee Kit #1 (6"/15cm tee)	23664	
Injection Tee Kit #2 (8"/20cm tee)	23665	
Tee, 6"/15cm	23666	
Tee, 8"/20cm	23667	
Reducing Union	23633	
Male Nuts, 1/16" (pk. of 4)	23805	
Knurled Male Nuts, 1/16" (pk. of 2)	23812	

Order: 1.800.325.3010 Technical Service: 1.800.359.3041 Web: www.supelco.com

Gas
Chromatography

SUPELCO

GC Accessories

Capillary GC

SGE ms-NoVent System

A new, time-saving accessory for GC/MS systems.

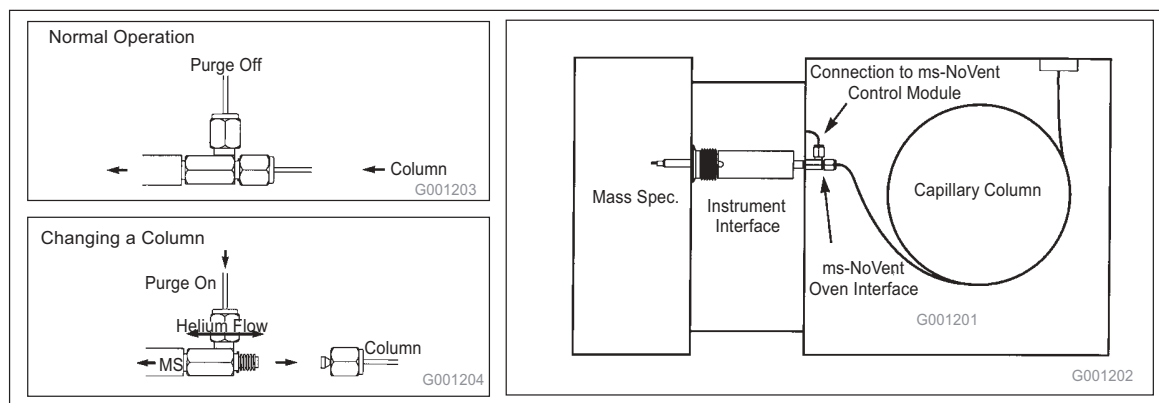
Typically, much GC/MS operating time is wasted when the capillary GC column must be disconnected at the detector end. Disconnecting a column means shutting down the ion source, cooling the mass spectrometer, and venting the MS to air. After the column is replaced or reconnected, the system must be evacuated and allowed to stabilize for hours before useful data can be obtained. The time involved can vary from 3-4 hours, at best, to several days, but these precautions are necessary to avoid damaging the ion source by exposure to oxygen or diffusion oil.

In contrast, the ms-NoVent* system allows you to use the MS almost immediately after replacing a column, producing results in minutes, rather than after many hours. Installing a new column simply involves turning on a helium purge gas, then replacing the column. There is no time limit to how long the MS system can be left open. If you wish to condition the new column before connecting it to the MS, simply leave the helium purge on until the column has been conditioned, cool the system down, and connect the column.

The system consists of an external control module (80mm x 50mm x 150mm) and an interface that connects to the inlet in the mass spectrometer. A fused silica transfer line (restrictor), specific in length for each MS instrument, fits inside the interface. The restrictor line restricts the gas flow that can be pulled into the ion source, allowing a low pressure to be maintained in the MS. Control of the helium purge, on the MS side of the fused silica restrictor, ensures that there is flow in only one direction, preventing air from being drawn into the mass spectrometer. As a result, only pure helium can enter the MS while the system is open.

The ms-NoVent system can be installed in approximately 30 minutes. The system is compatible with Hewlett-Packard (5970, 5971/5972, 5973), Varian (Saturn), and Shimadzu (5000/5050) GC/MS instruments. Order the fused silica restrictor appropriate for your instrument.

Dramatically cuts MS down-time



DESCRIPTION	CAT. NO.	PRICE
ms-NoVent System	26191-U	
RESTRICTORS FOR MS-NOVENT SYSTEM		
Restrictor for HP5970	26192-U	
Restrictor for HP 5971/5972	26193-U	
Restrictor for HP 5973	26194-U	
Restrictor for Varian Saturn	26195-U	
Restrictor for Shimadzu 5000/5050	26196-U	

¹ Restrictor not included with ms-NoVent system. Order separately according to the model of your GC/MS system.

* Patent pending.