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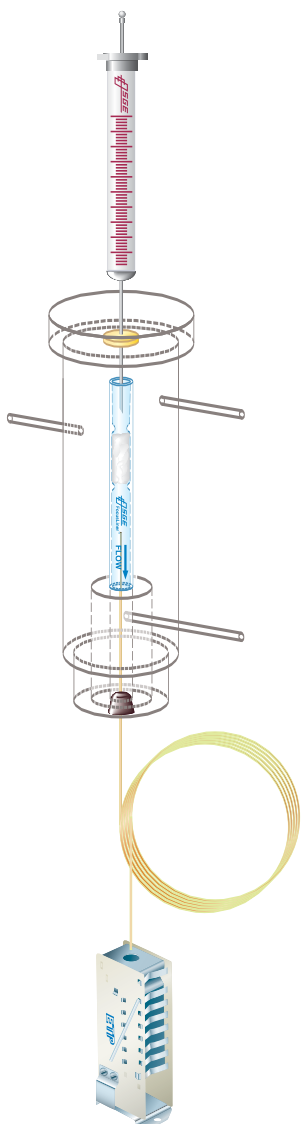
QUICK PICK: AGILENT TECHNOLOGIES GC

Autosampler Syringes

All needles are 42mm long with a cone point. For a complete listing of all Agilent GC autosampler syringes, please see page 12.

Volume	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Pack Size	Spare Needle Part No.	Pack Size	Spare Plunger Part No.	Pack Size
HP 7673, 7683 & 6850 ALS								
Fixed Tapered Needle								
5µL	23-26s (0.63/0.47)	5F-HP-0.63/0.47C	001821	1	-	-	-	-
10µL	23-26s (0.63/0.47)	10F-HP-0.63/0.47C	002821	1	-	-	-	-
10µL <i>Gas Tight</i>	23-26s (0.63/0.47)	10F-HP-GT-0.63/0.47C	002826	1	-	-	031808	2
Fixed Straight Needle								
5µL	26 (0.47)	5F-HP-0.47C	001800	1	-	-	-	-
5µL ^(M)	23 (0.63)	5F-HP-0.63C	001810	1	-	-	-	-
10µL	26 (0.47)	10F-HP-0.47C	002800	1	-	-	-	-
10µL ^(M)	23 (0.63)	10F-HP-0.63C	002810	1	-	-	-	-
10µL ^(M) <i>Gas Tight</i>	23 (0.63)	10F-HP-GT-0.63C	002812	1	-	-	031808	2
Removable Tapered Needle								
0.5µL	23-26s (0.63/0.47)	0.5BR-HP-0.63/0.47C	000415	1	033730	1**	-	-
5µL	23-26s (0.63/0.47)	5R-HP-0.63/0.47C	001825	1	036730	2	-	-
10µL	23-26s (0.63/0.47)	10R-HP-0.63/0.47C	002825	1	037730	2	-	-
10µL <i>Gas Tight</i>	23-26s (0.63/0.47)	10R-HP-GT-0.63/0.47C	002829	1	037730	2	031809	2
Removable Straight Needle								
0.5µL	26 (0.47)	0.5BR-HP-0.47C	000400	1	033708	1**	-	-
0.5µL ^(M)	23 (0.63)	0.5BR-HP-0.63C	000410	1	033715	1**	-	-
1µL	23 (0.63)	1BR-HP-0.63C	000610	1	034715	1**	-	-
5µL	26 (0.47)	5R-HP-0.47C	001805	1	036710	2	-	-
5µL ^(M)	23 (0.63)	5R-HP-0.63C	001815	1	036720	2	-	-
10µL	26 (0.47)	10R-HP-0.47C	002805	1	037715	2	-	-
10µL ^(M)	23 (0.63)	10R-HP-0.63C	002815	1	037717	2	-	-
10µL <i>Gas Tight</i>	26 (0.47)	10R-HP-GT-0.47C	002817	1	037715	2	031809	2
10µL ^(M) <i>Gas Tight</i>	23 (0.63)	10R-HP-GT-0.63C	002818	1	037717	2	031809	2
Wide Bore Needle	23 (0.63)							
(For use with 10µL syringe only)	/0.15 ID)	N10-HP-0.63(0.15)C	-		037725	2	-	-

^(M)Suitable for use with the Merlin Microseal™ Injector.
**Denotes Spare Needle and Plunger kit.



Septa

Instrument	Diameter (mm)	Septum Type [§]	Pack Size	Part No.
6890, 5890, 5880, 4890 & 6850	11	CS	50	041826
	11	TCS	50	041846
	11	Auto-Sep™	25	041872
	11	Auto-Sep T™	25	041882
	11	Auto-Sep T™	100	041883
5700, 5800 & 5900	9.5	CS	50	0418240
	9.5	TCS	50	0418440
	9.5	Auto-Sep™	25	041871
	9.5	Auto-Sep T™	25	041880
	9.5	Auto-Sep T™	25	041880
5750, 710, 720, 810 & 7610	12.5	CS	50	041828
	12.5	TCS	50	041848
	12.5	Auto-Sep T™	25	041884
7620, 5790, 5880 & 5890	5	CS	50	041820







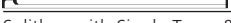


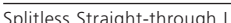



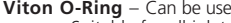
[§] For more information on septum type, refer to page 32.

Electron Multipliers

Instrument	Analyzer Type	Technique	Part No.
Agilent Technologies			
5970 (All)	Quadrupole	GC-MS	14511
5971, 5972, GCD	Quadrupole	GC-MS	14516
5973/5975 (Initial Installation – includes mount)	Quadrupole	GC-MS	14617
5973/5975 (Replacement multiplier)	Quadrupole	GC-MS	14616

Inlet Liners

Refer to page 32 for specialist Agilent Liners.
Description

	ID (mm)	OD (mm)	Length (mm)	Pack Size	Part No.
Deactivated Liners for HP5890, HP6890, HP6850 & HP4890					
Split/Splitless FocusLiner™	4.0	6.3	78.5	5	092002*
 TOP				25	092219
Split / Splitless Tapered FocusLiner	4.0	6.3	78.5	5	092003*
 TOP				25	092011
Split / Splitless FAST FocusLiner	2.3	6.3	78.5	5	092005
 TOP				25	092008
Split / Splitless Tapered FAST FocusLiner	2.3	6.3	78.5	5	092111
 TOP				25	092115
Split, Straight-through Liner	4.0	6.3	78.5	5	092007*
				25	092222
Split with Quartz Wool	4.0	6.3	78.5	5	092001
				25	092220
Split / Splitless with Single Taper	4.0	6.3	78.5	5	092017*
 TOP				25	092229
Splitless with Single Taper & Quartz Wool	4.0	6.3	78.5	5	092019*
 TOP				25	092218
Split / Splitless with Double Taper	4.0	6.3	78.5	5	092018
				25	092230
Direct Straight-through Liner	1.2	6.3	78.5	5	092016
				25	092224
Splitless Straight-through Liner, Quartz	2.0	6.1	78.5	5	092004
					
Splitless with Recessed Gooseneck	2.0	6.3	78.5	5	092013
					
Split/Splitless with Recessed Gooseneck & Quartz Wool 4.0	6.3	78.5	5	092010	
				25	092223
Packed Column Liner for HP5880, 5890 & 6890 GCs 1.8	3.0	92	5	092234	
				25	092235

Viton O-Ring – Can be used at temperatures up to 300°C
Suitable for all inlet liners above except 092234 & 092235.

Graphite Sealing Ring – Can be used at temperatures up to 450°C

Suitable for all inlet liners above except

092004, 092234 & 092235.

Suitable for use with 092004.

* = Also available in *FluoroLiner*: a fluoro deactivation treatment. To order, add "F" at the end of the part number, e.g. 092002F.

QUICK PICK

For SGE's full range of products, visit www.sge.com

Why choose SGE deactivated Liners?

- SGE is a leader in deactivation technology
- Liners deactivated using high temperature (420°C) gas phase deactivation
- Supplied in blister packs to prevent contamination
- Reduced active sites means no unwanted reactions in your sample
- All SGE liners are deactivated

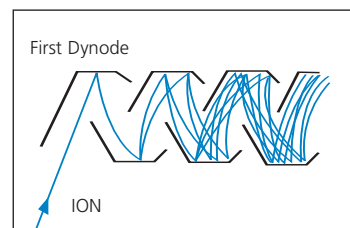
Ferrules

Material	Column ID	Ferrule ID	Pack Size	Part No.
15% Graphite / 85% Vespel® Ferrules				
For Injectors & Detectors at atmospheric pressure e.g. FID				
	0.1-0.25mm	0.4mm	10	073109
	0.32mm	0.5mm	10	073111
	0.53mm	0.8mm	10	073113
	for 1/8" OD Packed Columns	1/8"	10	072669
	for 1/4" OD Packed Columns	1/4"	10	072667
For GC-MS Interface Connection				
	0.1-0.25mm	0.4mm	10	072663
	0.32mm	0.5mm	10	072654
	0.53mm	0.8mm	10	072655
100% Graphite Ferrules				
Injectors & Detectors at atmospheric pressure e.g. FID (Not for GC-MS)				
	0.1-0.32mm	0.5mm	10	072635
	0.45-0.53mm	0.8mm	10	072636
	for 1/8" OD Packed Columns	1/8"	10	072602
	for 1/4" OD Packed Columns	1/4"	10	072601
SilTite™ Metal Ferrules				
For GC-MS Interface Connection (Starter Kit)				
	0.1-0.25mm	0.4mm	10*	073200
	0.32mm	0.5mm	10*	073201
	0.53mm	0.8mm	10*	073202
For Split / Splitless Injectors (Starter Kit)				
	0.1-0.25mm	0.4mm	10#	073270
	0.32mm	0.5mm	10#	073271
	0.45-0.53mm	0.8mm	10#	073272
	1/32"	0.81mm	10#	073273
Replacement SilTite™ Metal Ferrules				
For All Connections				
	0.1-0.25mm	0.4mm	10	073220
	0.32mm	0.5mm	10	073221
	0.53mm	0.8mm	10	073222
	1/32"	0.81mm	10	073219
Replacement SilTite™ Nuts				
For GC-MS Interface Connection				
			5	073224
For Split / Splitless Injector				
			5	073226
Replacement SilTite™ Base Seals				
For Split / Splitless Injector				
			2	073400
			10	073401

*Includes 10 ferrules, 2 SilTite™ nuts. # Includes 10 ferrules, 2 SilTite nuts and 2 SilTite Inlet Base Seals.

Features of ETP Electron Multipliers

- Proprietary specialized surface material resulting in very high secondary electron emission
- Air stable
- 2 year shelf life guarantee
- Discrete dynode design results in extended operating life



Ion-optics of an ETP discrete-dynode electron multiplier showing the electron gain at each successive dynode. This electron cascading process results in gains up to 10⁸ being achieved with ~21 dynodes.

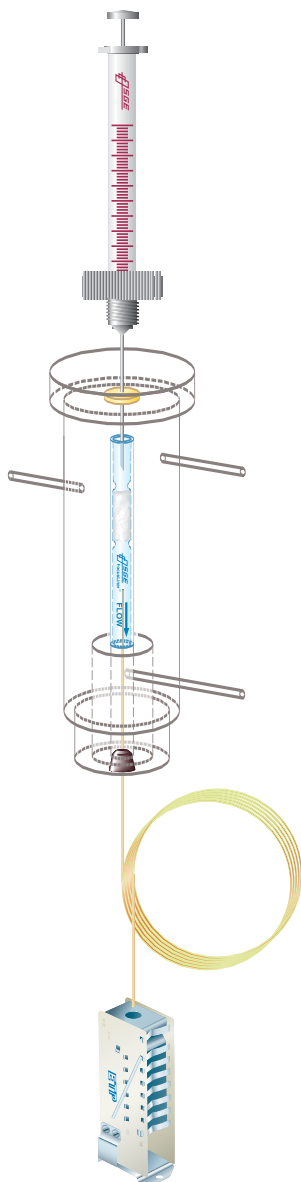
QUICK PICK: PERKIN ELMER GC

Autosampler Syringes

All needles are 70mm long with a cone point style.

Volume	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Pack Size	Spare Needle Part No.	Pack Size	Spare Plunger Part No.	Pack Size
Autosystem Fixed Needle								
5µL	26 (0.47)	5F-PE-0.47C	001953	1	-	-	-	-
5µL	23 (0.63)	5F-PE-0.63C	001954	1	-	-	-	-
5µL Gas Tight	26 (0.47)	5F-PE-GT-0.47C	001955	1	-	-	031807	2
5µL Gas Tight	23 (0.63)	5F-PE-GT-0.63C	001957	1	-	-	031807	2
50µL	23 (0.63)	50F-PE-0.63C	004670	1	-	-	-	-
Removable Needle								
0.5µL	26 (0.47)	0.5BR-PE-0.47C	000475	1	033750	1**	-	-
0.5µL	23 (0.63)	0.5BR-PE-0.63C	000478	1	033765	1**	-	-

**Denotes spare Needle and Plunger kit.



Septa

Instrument	Diameter (mm)	Septum Type [§]	Pack Size	Part No.
Sigma, 900, 990, 3920, 8300, 8400, 8500, AutoSystem & Clarus 500				
	11	CS	50	041826
	11	TCS	50	041846
	11	Auto-Sep™	25	041872
	11	Auto-Sep T™	25	041882
	11	Auto-Sep T™	100	041883









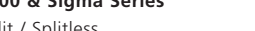
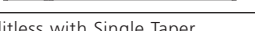



[§] For more information on septum type, refer to page 32.

Ferrules

Material	Column ID	Size of Nut	Ferrule ID	Pack Size	Part No.
15% Graphite / 85% Vespel® Ferrules					
For Injectors & Detectors at atmospheric pressure e.g. FID					
	0.1-0.25mm	1/16"	0.4mm	10	072663
	0.1-0.25mm	1/8"	0.4mm	10	0726703
	0.32mm	1/16"	0.5mm	10	072654
	0.32mm	1/8"	0.5mm	10	0726702
	0.45-0.53mm	1/16"	0.8mm	10	072655
	0.45-0.53mm	1/8"	0.8mm	10	072671
	1/8" OD Packed Columns	1/8"	1/8"	10	072669
	1/4" OD Packed Columns	1/4"	1/4"	10	072667
100% Graphite Ferrules					
For Injectors & Detectors at atmospheric pressure e.g. FID (Not for GC-MS)					
	0.1-0.32mm	1/16"	0.5mm	10	072627
	0.1-0.32mm	1/8"	0.5mm	10	072624
	0.45-0.53mm	1/16"	0.8mm	10	072626
	0.45-0.53mm	1/8"	0.8mm	10	0726280
	1/8" OD Packed Columns	1/8"	1/8"	10	072622
	1/4" OD Packed Columns	1/4"	1/4"	10	072621
SilTite™ Metal Ferrules					
For GC-MS Interface Connection (Starter Kit)					
	0.1-0.25mm	-	0.4mm	10*	073200
	0.32mm	-	0.5mm	10*	073201
	0.53mm	-	0.8mm	10*	073202
Replacement SilTite™ Ferrules					
For GC-MS Interface Connection					
	0.1-0.25mm	-	0.4mm	10	073220
	0.32mm	-	0.5mm	10	073221
	0.53mm	-	0.8mm	10	073222
	1/32"	-	0.81mm	10	073219
Replacement SilTite™ Nuts					
		-	-	5	073224

*Includes 10 ferrules, 2 SilTite™ nuts.

Inlet Liners

Description	ID (mm)	OD (mm)	Length (mm)	Pack Size	Part No.
AutoSystem™ & Clarus 500					
Split / Splitless FocusLiner™  TOP	4.0	6.2	92	5	092092*
Split / Splitless Tapered FocusLiner  TOP	4.0	6.2	92	25	09209225
Split / Splitless Tapered FocusLiner  TOP	4.0	6.2	92	5	092095*
Split / Splitless Tapered FocusLiner  TOP	4.0	6.2	92	25	09209525
Split, Straight-through Liner  TOP	4.0	6.2	92	5	092100*
Splitless, Straight-through Liner  TOP	2.0	6.2	92	5	092103
AutoSystem XL, Split/Splitless (PSS Injector) 	2.0	4.0	86.2	5	092098
Split / Splitless FocusLiner, AutoSystem XL (PSS Injector) 	2.0	4.0	86.2	5	092101*
Sintered Glass, Large Volume Injection (LVI) (PSS Injector) 	0.78/2.4	4.0	86.2	5	092244
Packed Column Liner 	3.0	6.0	112	5	092236
8000 & Sigma Series					
Split / Splitless 	3.0	5.0	100	5	092091
Splitless with Single Taper 	2.0	5.0	100	5	092094
PTV Liner					
Recessed Gooseneck 	1.0	2.0	88	5	092097

Viton O-Ring – Can be used at temperatures up to 300°C

For 6.2mm OD Inlet Liners. 10 0726536

* = Also available in *FluoroLiner*: a fluoro deactivation treatment. To order, add "F" at the end of the part number, e.g. 092092F.

Electron Multipliers

MS Description	Analyzer Type	Technique	Part No.
Ion Trap GC-MS	Ion Trap	GC-MS	14138
Q-Mass	Quadrupole	GC-MS	14532

Why choose SGE deactivated Liners?

- SGE is a leader in deactivation technology
- Liners deactivated using high temperature (420°C) gas phase deactivation
- Supplied in bliseter packs to prevent contamination
- Reduced active sites means no unwanted reactions in your sample
- All SGE liners are deactivated

Why Choose FocusLiner™?

- Recognized as the industry standard for liners
- Improves injection reproducibility 10-fold
- SGE is a leader in deactivation technology
- Fixed quartz wool wipes needle tip during injection
- Quartz wool secured by innovative tapered design



QUICK PICK: SHIMADZU GC

Autosampler Syringes

All needles are 42mm long with a cone point style.

Volume	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Pack Size	Spare Needle Part No.	Pack Size	Spare Plunger Part No.	Pack Size
AOC14, AOC17 and AOC20 Fixed Needle								
5µL	26 (0.47)	5F-S-0.47C	001987	1	-	-	-	-
5µL	23 (0.63)	5F-S-0.63C	001988	1	-	-	-	-
250µL Gas Tight	23 (0.63)	250F-S-GT-0.63C	006682	1	-	-	031828	1
Removable Needle								
0.5µL	26 (0.47)	0.5BR-S-0.47C	000440	1	033738	1**	-	-
0.5µL	23 (0.63)	0.5BR-S-0.63C	000445	1	033745	1**	-	-
10µL	26 (0.47)	10R-S-0.47C	002897	1	037745	2	-	-
10µL	23 (0.63)	10R-S-0.63C	002898	1	037747	2	-	-
10µL Gas Tight	23 (0.63)	10R-S-GT-0.63C	002902	1	037747	2	031798	2

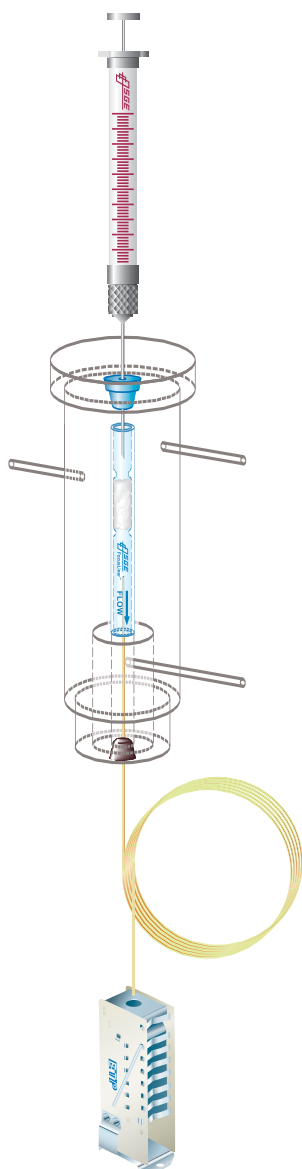
**Denotes spare Needle and Plunger kit.

Septa

Instrument	Septum Type [§]	Pack Size	Part No.
9A, 14, 15A, 16, 17A, 2010 & 2014	Enduro Blue	50	041890

Ferrules

Material	Column ID	Ferrule ID	Pack Size	Part No.
15% Graphite / 85% Vespel[®] Ferrules				
For QP5000-I GC-MS System				
	0.1-0.25mm	0.4mm	10	0726563
	0.32mm	0.5mm	10	0726564
For QP5000-II & QP5050 GC-MS System				
	0.1-0.25mm	0.4mm	10	0726561
	0.32mm	0.5mm	10	0726562
For 2010 & 2014 Injector & GC-MS Connection				
	0.1-0.25mm	0.4mm	10	072663
	0.32mm	0.5mm	10	072654
	0.53mm	0.8mm	10	072655
100% Graphite Ferrules				
For Injectors & Detectors at atmospheric pressure e.g. FID (Not for GC-MS)				
	0.1-0.32mm	0.5mm	10	0726080
	0.45-0.53mm	0.8mm	10	0726082
	5mm OD Packed Columns	5.0mm	10	0726001
For 2010 & 2014 Injector				
	0.1-0.32mm	0.5mm	10	072635
	0.45-0.53mm	0.8mm	10	072636
SilTite™ Metal Ferrules				
For GC-MS Interface Connection - Direct Interface (Starter Kit)				
	0.1-0.25mm	0.4mm	10*	073204
	0.32mm	0.5mm	10*	073205
	0.53mm	0.8mm	10*	073206
	1/32"	0.81mm	10*	073207
For GC-MS Interface Connection - Jet Separator & 2010 (Starter Kit)				
	0.1-0.25mm	0.4mm	10*	073200
	0.32mm	0.5mm	10*	073201
	0.53mm	0.8mm	10*	073202
	1/32"	0.81mm	10	073210
For All Injectors, Jet Separator (Starter Kit), except 2010				
	0.1-0.25mm	0.4mm	10*	073350
	0.32mm	0.5mm	10*	073351
	0.53mm	0.8mm	10*	073352
Replacement SilTite™ Ferrules				
For GC-MS Interface Connection				
	0.1-0.25mm	0.4mm	10	073220
	0.32mm	0.5mm	10	073221
	0.53mm	0.8mm	10	073222
	1/32"	0.81mm	10	073219
For GC-MS Interface Connection - Direct Interface (For Part No. 073204, 073205, 073206 & 073207)				
	0.1-0.25mm	0.4mm	10	073227
	0.32mm	0.5mm	10	073228
	0.53mm	0.8mm	10	073229
	1/32"	0.81mm	10	073235



Ferrules continued

Material	Column ID	Ferrule ID	Pack Size	Part No.
Replacement SilTite™ Nuts				
	For 2010 GC-MS System	–	5	073224
	For 2010 GC-MS System with QP5000 series MS	–	5	073224
	For 2010 GC Injectors and atmospheric detectors	–	5	073224
	QP5000 Jet Separator MS Interface	–	5	073224
	QP5000 Direct MS Interface	–	5	073233

*Includes 10 ferrules, 2 SilTite™ nuts.

Inlet Liners

Description	ID (mm)	OD (mm)	Length (mm)	Pack Size	Part No.
17A (SP-17 Injector) & 2014					
Split / Splitless FocusLiner™	3.4	5.0	95	5	092062*
Split / Splitless Tapered FocusLiner	3.4	5.0	95	5	092068*
Split / Splitless with Recessed Gooseneck & Quartz Wool	3.4	5.0	95	5	092061
Split, Straight-through Liner	3.4	5.0	95	5	092064
Split / Splitless with Middle Gooseneck	3.4	5.0	95	5	092085*
Splitless, Straight-through Liner	2.6	5.0	95	5	0920861
Direct, for 0.53mm ID Column	2.6	5.0	95	5	092087
SPME Liner	0.75	5.0	95	5	092089
14, 15A & 16 (SPL-14 Injector)					
Split / Splitless FocusLiner	3.4	5.0	99	5	092065
Split / Splitless Tapered Focusliner	3.4	5.0	99	5	092066
Split / Splitless with 2.0mm Middle Gooseneck	3.4	5.0	99	5	092082
Split / Splitless with Single Taper	3.4	5.0	99	5	0920831
Splitless, Direct, Wide Bore for 9A & 16A GCs	3.4	5.0	139	5	092084
2010 (SPL-2010 Injector)					
Split / Splitless Tapered FocusLiner	3.4	5.0	95	5	092058*
Split / Splitless Focusliner	3.4	5.0	95	5	092059*
Split, Straight-through Liner	3.4	5.0	95	5	092064
Splitless, Straight-through Liner	2.6	5.0	95	5	0920861
Split / Splitless with Single Taper	3.4	5.0	95	5	092071*†
Split / Splitless with Middle Gooseneck	3.4	5.0	95	5	092077*
Graphite Sealing Ring – Can be used at temperatures up to 450°C					
	For 14, 15A & 16 (SPL-14 Injector)			10	0726001
	For 17A (SPL-17 Injector)			10	0726007
Viton O-Ring – Can be used at temperatures up to 300°C					
	For 2010 & 2014 (SPL-2010 Injector & SPL-2014 Injector)			10	0726533

* = Also available in *FluoroLiner*: a fluoro deactivation treatment. To order, add "F" at the end of the part number, e.g. 092062F.

† = Can be used in 2014 injector.

Why choose SGE deactivated Liners?

- SGE is a leader in deactivation technology
- Liners deactivated using high temperature (420°C) gas phase deactivation
- Supplied in bliseter packs to prevent contamination
- Reduced active sites means no unwanted reactions in your sample
- All SGE liners are deactivated

SGE syringes have consistently been the choice of GC and LC equipment manufacturers for many years. They choose our products because their reputation depends on the performance of our components.

Our knowledge and expertise in liquid handling technologies has enabled us to design syringes for a vast variety of applications. These products have two things in common; outstanding performance and superior quality.



Electron Multipliers

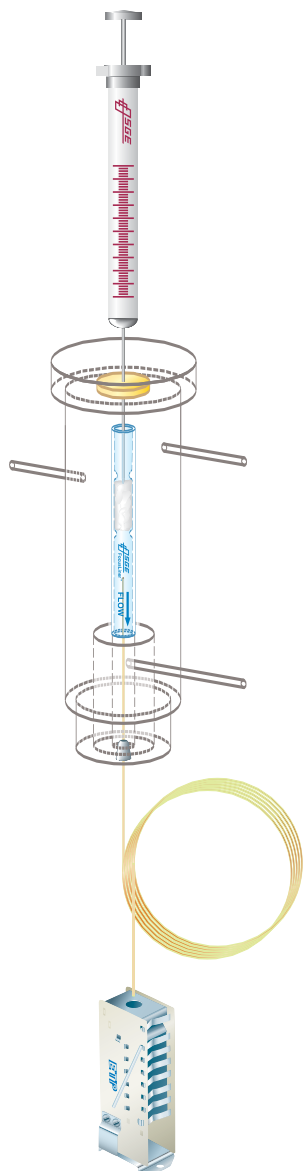
MS Description	Analyzer Type	Technique	Part No.
QP8000 (Replacement multiplier)	Quadrupole	GC-MS	14625
QP5000	Quadrupole	GC-MS	14533
QP5050A (Initial Installation – includes mount)	Quadrupole	GC-MS	14627
QP5050A (Replacement multiplier)	Quadrupole	GC-MS	14625

QUICK PICK: THERMO ELECTRON GC

Thermo Electron / CE Instruments / Fisons Autosampler Syringes

All needles have a cone point style.

Autosampler				Needle Specifications						
TriPlus	AS3000	AS2000	AS200/800	Volume	Length (mm)	Gauge	Syringe Code	Syringe Part No.	Needle Pack Part No.	size
				Fixed Needle						
•	•	•		10µL	80	23 (0.63)	10F-C/T-8/0.63C	002989	-	-
•	•	•		10µL	80	26 (0.47)	10F-C/T-8/0.47C	002992	-	-
•	•	•	•	10µL	50	25 (0.50)	10F-C/T-5/0.50C	019050	-	-
•	•	•	•	10µL	50	23 (0.63)	10F-C/T-5/0.63C	002981	-	-
•	•	•	•	10µL	50	26 (0.47)	10F-C/T-5/0.47C	002980	-	-
				Removable Needle						
•	•	•		10µL	50	26 (0.47)	10R-C/T-5/0.47C	002982	037785	2
•	•	•	•	10µL	50	23 (0.63)	10R-C/T-5/0.63C	002984	037787	2
•	•	•	•	10µL	80	26 (0.47)	10R-C/T-8/0.47C	002993	031535	3



Septa

Instrument	Diameter (mm)	Septum Type [§]	Pack Size	Part No.
8000 Series, TRACE™ GC	17	TCS	50	0418491
	17	Auto-Sep T™	25	041886

[§] For more information on septum type, refer to page 32.



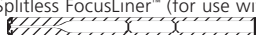
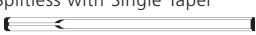


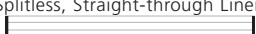



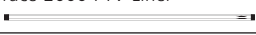
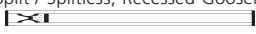
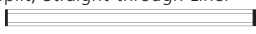

Ferrules

Material	Column ID	Ferrule ID	Pack Size	Part No.
15% Graphite / 85% Vespel® Ferrules				
For All Injectors & Detectors (Not for 8000 Series & Trace GC)				
	0.1-0.25mm	0.4mm	10	0726549
	0.32mm	0.5mm	10	0726557
	0.53mm	0.8mm	10	0726548
	1/8" OD Packed Columns	1/8"	10	072669
	1/4" OD Packed Columns	1/4"	10	072667
For All Trace Injectors & Detectors at atmospheric pressure e.g. FID (Not for GC-MS)				
	0.1-0.25mm	0.4mm	10#	072696
	0.32mm	0.5mm	10#	072697
	0.53mm	0.8mm	10#	072698
Brass Nut for Trace GC Injectors & Non-MS Detectors			2	1034085
100% Graphite Ferrules				
For Injectors & Detectors at atmospheric pressure e.g. FID (Not for GC-MS)				
	0.1-0.32mm	0.5mm	10	072619
	0.45-0.53mm	0.8mm	10	072614
	1/8" OD Packed Columns	1/8"	10	072622
	1/4" OD Packed Columns	1/4"	10	072621
SilTite™ Metal Ferrules				
For GC-MS Interface Connections (Starter Kit)				
	0.1-0.25mm	0.4mm	10*	073450
	0.32mm	0.5mm	10*	073451
	0.53mm	0.8mm	10*	073452
	1/32"	0.81mm	10	073453
Replacement SilTite™ Metal Ferrules				
For All GC-MS Interface Connections				
	0.1-0.25mm	0.4mm	10	073330
	0.32mm	0.5mm	10	073331
	0.53mm	0.8mm	10	073332
	1/32"	0.81mm	10	073333
Replacement SilTite™ Nuts			5	073230

* To be used in combination with brass nut (Part No. 1034085)

* Includes 10 ferrules, 2 SilTite™ nuts.

Inlet Liners

Description	ID (mm)	OD (mm)	Length (mm)	Pack Size	Part No.
ThermoQuest 8000 & TRACE™					
Splitless FocusLiner™ (for use with 70mm Needle)  TOP	5.0	8.0	105	5	092045*
Split FocusLiner (for use with 50mm Needle)  TOP	5.0	8.0	105	5	092048*
Splitless FocusLiner™ (for use with 50mm Needle)  TOP	5.0	8.0	105	5	092049*
Splitless with Single Taper  TOP	3.0	8.0	105	5	092141*
Splitless with Single Taper  TOP	5.0	8.0	105	5	092144*
SPME Liner 	0.8	8.0	105	5	092148
Splitless, Straight-through Liner 	3.0	8.0	105	5	092147
Split, Straight-through Liner 	5.0	8.0	105	5	092150
FocusLiner 	5.0	8.0	105	5 25	092046 09204625
Sintered Glass, Large Volume Injection (LVI) Liner  TOP	0.78/1.8	2.75	120	5	092155
PTV Liner					
Trace 2000 PTV Liner  TOP	1.75	2.75	120	5	092142
Mega Series 4000, 5000 & 6000					
Split / Splitless, Recessed Gooseneck with Quartz Wool 	3.0	5.0	79.5	5	092041
Split, Straight-through Liner 	3.0	5.0	79.5	5	092044
Splitless, Straight-through Liner 	2.0	5.0	79.5	5	092047
Graphite Sealing Ring					
For 8000 & TRACE GCs	8.0			10	0726004
Thermo Finnigan 9001 and GCQ					
Thermo Finnigan 9001 & GCQ GC's accept all Agilent Technologies 6.3mm OD Liners. Refer to page 3.					

* = Also available in *FluoroLiner*: a fluoro deactivation treatment. To order, add "F" at the end of the part number, e.g. 092062F.

Why choose SGE deactivated Liners?

- SGE is a leader in deactivation technology
- Liners deactivated using high temperature (420°C) gas phase deactivation
- Supplied in bliseter packs to prevent contamination
- Reduced active sites means no unwanted reactions in your sample
- All SGE liners are deactivated

Why Choose SilTite™ Ferrules?

- The perfect solution for GC-MS interfaces
- Never needs re-tightening, even after temperature cycling
- No contamination from Vespel® or graphite materials - 100% metal
- Ferrule remains permanently fixed to the column but does not adhere to the SilTite™ nut
- Ideal for high pressure applications
- Also available for injector interfaces
- >500°C maximum temperature
- SilTite™ ferrules must be used with SilTite™ nuts
- Patent Pending

Electron Multipliers

Mass Spectrometer	Analyzer Type	Technique	Part No.
Bench-top ion trap pre-GCQ	Ion Trap	GC-MS	14138

QUICK PICK: VARIAN GC

Autosampler Syringes

Volume	Length	Needle Gauge (OD mm)	Tip Style	Syringe Code	Syringe Part No.	Pack Size	Needle Part No.	Pack Size	Plunger Part No.	Pack Size
Varian 8035, 8100 and 8200										
Fixed Needle										
10µL <i>Gas Tight</i>	53	25 (0.5)	S/Hole	10F-VA8X-II	002923	1	-	-	031218	1
Removable Needle										
1µL*	51	26 (0.47)	Cone	1BR-VA8X	000655	1	034720	1**	-	-
10µL <i>Gas Tight</i>	53	25 (0.5)	S/Hole	10R-VA8X-II	002924	1	037777	1	031218	1
Needle Alternatives for P/N 002924										
	50	25 (0.5)	Bevel	N10-VA8035-II	-	1	037776	2	-	-
	105	-	OC	N10-VA8035-0.17-II	-	1	037778	2	-	-
	53	23 (0.63)	S/Hole	N10-VA8X00H-0.63-II	-	1	037779	2	-	-
	53	25 (0.5)	S/Hole	N10-VA800H-II(0.2)	-	1	037780	1	-	-
100µL	53	25 (0.5)	S/Hole	100R-VA8X	005921	1	038745	1	031824	1
Varian CP-8400/8410, CP-9010/9050										
Fixed Needle										
10µL	50	26 (0.47)	Bevel	10F-VA8400-5/0.47	002950	1	-	-	-	-
10µL	50	23 (0.63)	Cone	10F-C/T-5/0.63C	002981	1	-	-	-	-
Removable Needle										
10µL	50	26 (0.47)	Cone	10R-C/T-5/0.47C	002982	1	037785	2	-	-

*Not suitable for 8200 autosampler. **Denotes Plunger and Needle Kit.

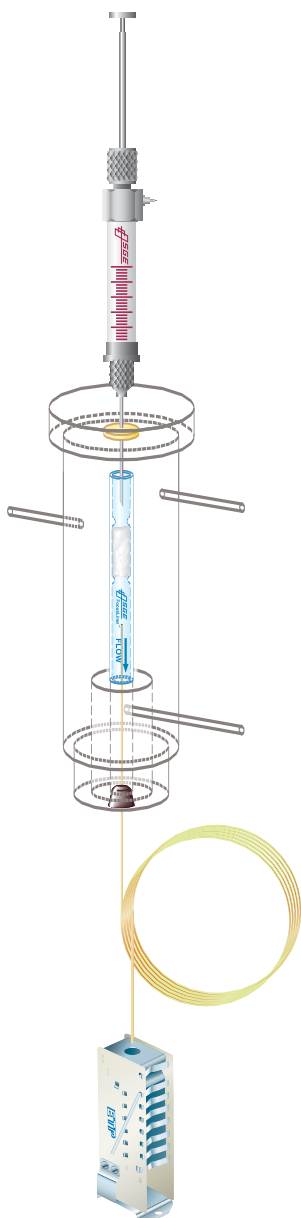
Septa

Instrument	Diameter (mm)	Septum Type [§]	Pack Size	Part No.
1177 Injector	9	CS	50	041824
	9	TCS	50	041844
	9	TCS Pre-drilled	50	041854
	9	Auto-Sep T™	25	041879
1040, 1041, 1060 & 1061 Injectors	9.5	CS	50	0418240
	9.5	TCS	50	0418440
	9.5	Auto-Sep™	25	041871
	9.5	Auto-Sep T™	100	041881
1075, 1077, 1078, 1079 Injectors & 1093, 1094 SPI Injectors	11	CS	50	041826
	11	TCS	50	041846
	11	Auto-Sep™	25	041872
	11	Auto-Sep T™	25	041882
	11	Auto-Sep T™	100	041883

§ For more information on septum type, refer to page 32.

Ferrules

Material	Column ID	Ferrule ID	Pack Size	Part No.
15% Graphite / 85% Vespel® Ferrules				
For GC-MS & Detectors at atmospheric pressure e.g. FID				
	0.1-0.25mm	0.4mm	10	072663
	0.32mm	0.5mm	10	072654
	0.53mm	0.8mm	10	072655
Packed Columns				
	1/8" OD Packed Columns	1/8"	10	072669
	1/4" OD Packed Columns	1/4"	10	072667
100% Graphite Ferrules – For Injectors & Detectors at atmospheric pressure e.g. FID				
	0.1-0.32mm	0.5mm	10	072627
	0.45-0.53mm	0.8mm	10	072626
	1/8" OD Packed Columns	1/8"	10	072622
	1/4" OD Packed Columns	1/4"	10	072621
SilTite™ Metal Ferrules – For GC-MS Interface Connection (Starter Kit)				
	0.1-0.25mm	0.4mm	10*	073300
	0.32mm	0.5mm	10*	073301
	0.53mm	0.8mm	10*	073302
	1/32"	0.81mm	10*	073303



For SGE's full range of products, visit www.sge.com

Ferrules continued

Material	Column ID	Ferrule ID	Pack Size	Part No.
Nuts for Varian Injector			2	1034060
Replacement SilTite™ Ferrules For GC-MS Interface Connection				
	0.1-0.25mm	0.4mm	10	073220
	0.32mm	0.5mm	10	073221
	0.53mm	0.8mm	10	073222
	1/32"	0.81mm	10	073219
Replacement SilTite™ Nuts			5	073231

*Includes 10 ferrules, 2 SilTite™ nuts.

Inlet Liners

Description	ID (mm)	OD (mm)	Length (mm)	Pack Size	Part No.
1177 Injector					
1177 injector accepts all Agilent Technologies 6.3mm OD liners, refer to page 3.					
1075 & 1077 Injectors					
Split FocusLiner™ 	4.0	6.3	72	5	092022
Splitless Focusliner with Top-end Restriction 	4.0	6.3	74	5	092026
Split, Tapered FocusLiner 	4.0	6.3	72	5	092025
Split Focusliner with Top-end Restriction 	4.0	6.3	72	5	092028
Split, FAST FocusLiner 	2.3	6.3	72	5	092113
Split with Quartz Wool 	4.0	6.3	72	5	092021
Splitless, Slots at Both Ends 	2.0	6.3	74	5	092024
				25	092228
1078 & 1079 Injectors					
Split / Splitless FocusLiner 	3.4	5.0	54	5	092037*
Split / Splitless Tapered FocusLiner 	3.4	5.0	54	5	092036*
Straight-through Liner 	0.5	5.0	54	5	092031
Split / Splitless with Single Taper 	3.4	5.0	54	5	092038*
Splitless with Single Taper 	2.0	5.0	54	5	092039*
Sintered Glass, Large Volume Injection (LVI) Liner 	1.8/3.4	5.0	54	5	092245
SPME liner 	0.75	5.0	54	5	092117
1093 & 1094 Injectors					
SPI Liner, (Restriction=0.25mm) 	0.5	4.6	54	5	092027
SPI Liner, (Restriction=0.25mm) 	0.8	4.6	54	5	092030
SPI Liner, (Restriction=0.5mm) for 0.53mm ID On-column 	0.8	4.6	54	5	092034
Viton O-Ring					
For 1177 injector, can be used at temperatures up to 300°C				10	0726532
Graphite Sealing Rings					
For 1075 & 1077 Injectors				10	072601
For 1078 & 1079 Injectors				10	0726217
Packed Column Injectors					
Packed Column Liner for Varian Flash Injectors	3	6.3	72	1	092232
				5	092233

* = Also available in FluoroLiner: a fluoro deactivation treatment. To order, add "F" at the end of the part number, e.g. 092062F.

Electron Multipliers

MS Description	Part No.
Saturn (Pre-2000)	14138
Saturn 2000, 2100 & 2200	14147

CS Septa

- Teflon® coated silicone
- maximum injector temperature 200°C



TCS Septa

- three layers
- Teflon® coated silicone
- maximum injector temperature 280°C
- pre-drilled septa are especially useful for SPME applications



Auto-Sep™ Septa

- silicone
- maximum injector temperature 320°C



Auto-Sep T™ Septa

- Teflon® coated silicone
- maximum injector temperature 350°C



Enduro™ Septa

- high temperature silicone
- maximum injector temperature 350°C
- for Shimadzu 9A, 14, 15A, 16, 17A, 2010, & 2014. Part No. 041890



SYRINGES: GC AUTOSAMPLER

Agilent Technologies

All needles are 42mm long with a cone point. All syringes, needles and plungers are supplied in packs of one unless otherwise noted. For syringe multipacks see page 23.

Volume	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Spare Needle Part No.	Pack Size	Spare Plunger Part No.	Pack Size
Agilent 7670							
Removable Needle							
1µL	23 (0.63)	1BR-F5	0000585	034705	1**	-	-
Agilent 7673, 7683 & 68560 ALS							
Fixed Tapered Needle							
5µL	23-26s (0.63/0.47)	5F-HP-0.63/0.47C	001821	-	-	-	-
10µL	23-26s (0.63/0.47)	10F-HP-0.63/0.47C	002821	-	-	-	-
10µL <i>Gas Tight</i>	23-26s (0.63/0.47)	10F-HP-GT-0.63/0.47C	002826	-	-	-	-
25µL <i>Gas Tight</i>	23-26s (0.63/0.47)	25F-HP-GT-0.63/0.47C	003668	-	-	031818	1
50µL <i>Gas Tight</i>	23-26s (0.63/0.47)	50F-HP-GT-0.63/0.47C	004668	-	-	031822	1
100µL <i>Gas Tight</i>	23-26s (0.63/0.47)	100F-HP-GT-0.63/0.47C	005668	-	-	031823	1
Fixed Straight Needle							
5µL	26 (0.47)	5F-HP-0.47C	001800	-	-	-	-
5µL ^(M)	23 (0.63)	5F-HP-0.63C	001810	-	-	-	-
10µL	26 (0.47)	10F-HP-0.47C	002800	-	-	-	-
10µL ^(M)	23 (0.63)	10F-HP-0.63C	002810	-	-	-	-
10µL ^(M) <i>Gas Tight</i>	23 (0.63)	10F-HP-GT-0.63C	002812	-	-	031808	2
Fixed Needle – SuperFlex™ Plunger							
10µL	26 (0.47)	10FX-HP-0.47	002830	-	-	-	-
10µL	23 (0.63)	10FX-HP-0.63	002835	-	-	-	-
Removable Tapered Needle							
0.5µL	23-26s (0.63/0.47)	0.5BR-HP-0.63/0.47C	000415	033730	1**	-	-
5µL	23-26s (0.63/0.47)	5R-HP-0.63/0.47C	001825	036730	2	-	-
10µL	23-26s (0.63/0.47)	10R-HP-0.63/0.47C	002825	037730	2	-	-
10µL ^(M) <i>Gas Tight</i>	23-26s (0.63/0.47)	10R-HP-GT-0.63/0.47C	002829	037730	2	031809	2
Removable Straight Needle							
0.5µL	26 (0.47)	0.5BR-HP-0.47C	000400	033708	1**	-	-
0.5µL ^(M)	23 (0.63)	0.5BR-HP-0.63C	000410	033715	1**	-	-
1µL	23 (0.63)	1BR-HP-0.63C	000610	033715	1**	-	-
5µL	26 (0.47)	5R-HP-0.47C	001805	036710	2	-	-
5µL ^(M)	23 (0.63)	5R-HP-0.63C	001815	036720	2	-	-
10µL	26 (0.47)	10R-HP-0.47C	002805	037715	2	-	-
10µL ^(M)	23 (0.63)	10R-HP-0.63C	002815	037717	2	-	-
10µL <i>Gas Tight</i>	26 (0.47)	10R-HP-GT-0.47C	002817	037715	2	031809	2
10µL ^(M) <i>Gas Tight</i>	23 (0.63)	10R-HP-GT-0.63C	002818	037717	2	031809	2
25µL ^(M)	23 (0.63)	25R-HP-0.63C	003665	038717	2	-	-
50µL ^(M)	23 (0.63)	50R-HP-0.63C	004665	038717	2	-	-
100µL ^(M)	23 (0.63)	100R-HP-0.63C	005665	038717	2	-	-
250µL ^(M)	23 (0.63)	250R-HP-0.63C	006665	038717	2	-	-
Wide Bore Needle							
(for use with 10µL syringe only)	23 (0.63)/0.15 ID	N10-HP-0.63(0.15)C	-	037725	2	-	-
Removable Needle – SuperFlex™ plunger							
10µL	26 (0.47)	10RX-HP-0.47C	002844	037715	2	-	-
10µL	23 (0.63)	10RX-HP-0.63C	002845	037717	2	-	-

**Denotes Spare Needle and Plunger kit ^(M)Suitable for use with the Merlin Microseal™ Injector.

Certificate of Calibration - Available for most SGE syringes

SGE offers a factory calibration service, at an additional cost, for syringes nominated by you at the time of purchase. These syringes are supplied with a Certificate of Calibration, providing volume conformance and traceability. Syringes are also identified by an engraved number on the syringe flange. To order a Certificate of Calibration, add "CAL" to the end of the part number, e.g. 0000585**CAL**.

SYRINGES: GC AUTOSAMPLER

Perkin Elmer

All syringes, needles and plungers are supplied in packs of one unless otherwise noted.

Volume	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Spare Needle Part No.	Pack Size	Spare Plunger Part No.	Pack Size
AS100, AS2000 and AS8300							
Removable Needle – 78mm long with a dome point style							
3µL	26 (0.47)	3R-PS-0.47	000700	035980	2	–	–
Autosystem							
Fixed Needle – 70mm long with a cone point style							
5µL	26 (0.47)	5F-PE-0.47C	001953	–	–	–	–
5µL	23 (0.63)	5F-PE-0.63C	001954	–	–	–	–
5µL <i>Gas Tight</i>	26 (0.47)	5F-PE-GT-0.47C	001955	–	–	031807	2
5µL <i>Gas Tight</i>	23 (0.63)	5F-PE-GT-0.63C	001957	–	–	031807	2
50µL	23 (0.63)	50F-PE-0.63C	004670	–	–	–	–
Removable Needle							
0.5µL	26 (0.47)	0.5BR-PE-0.47C	000475	033750	1**	–	–
0.5µL	23 (0.63)	0.5BR-PE-0.63C	000478	033765	1**	–	–

** Denotes spare Needle and Plunger kit.

Shimadzu

All syringes, needles and plungers are supplied in packs of one unless otherwise noted.

Volume	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Spare Needle Part No.	Pack Size	Spare Plunger Part No.	Pack Size
AOC9							
Removable Needle – 50mm long with a cone point style							
0.5µL	26 (0.47)	0.5BR-S(9)-5/0.47C	000435	033732	1**	–	–
10µL	26 (0.47)	10R-S(9)-5/0.47C	002885	037736	2	–	–
AOC14, AOC17 and AOC20							
Fixed Needle – 42mm long with a cone point style							
5µL	26 (0.47)	5F-S-0.47C	001987	–	–	–	–
5µL	23 (0.63)	5F-S-0.63C	001988	–	–	–	–
250µL <i>Gas Tight</i>	23 (0.63)	250F-S-GT-0.63C	006682	–	–	031828	1
Removable Needle – 42mm long with a cone point style							
0.5µL	26 (0.47)	0.5BR-S-0.47C	000440	033738	1**	–	–
0.5µL	23 (0.63)	0.5BR-S-0.63C	000445	033745	1**	–	–
10µL	26 (0.47)	10R-S-0.47C	002897	037745	2	–	–
10µL	23 (0.63)	10R-S-0.63C	002898	037747	2	–	–
10µL <i>Gas Tight</i>	23 (0.63)	10R-S-GT-0.63C	002902	037747	2	031798	2

** Denotes spare Needle and Plunger kit.

Thermo Electron GC Autosampler Syringes

All syringes, needles and plungers are supplied in packs of one unless otherwise noted.

TriPlus AS3000 AS2000 AS200/800	Volume	Length mm	Gauge (OD mm)	Tip Style	Syringe Code	Syringe Part No.	Needle Part No.	Needle	Plunger	Pack Size
								Pack Size	Part No.	
Fixed Needle										
•	5µL	50	26 (0.47)	Cone	5FX-5C	001105	–	–	–	–
•	10µL	80	23 (0.63)	Cone	10F-C/T-8/0.63C	002989	–	–	–	–
•	10µL	80	26 (0.47)	Cone	10F-C/T-8/0.47C	002992	–	–	–	–
•	10µL	50	25 (0.50)	Cone	10F-C/T-5/0.50C	019050	–	–	–	–
•	10µL <i>Gas Tight</i>	50	23 (0.63)	Cone	10F-C/T-GT-5/0.63C	002987	–	–	0318120	2
•	10µL	50	23 (0.63)	Cone	10F-C/T-5/0.63C	002981	–	–	–	–
•	10µL	50	26 (0.47)	Cone	10F-C/T-5/0.47C	002980	–	–	–	–
Removable Needle										
•	0.5µL	50	26 (0.47)	Cone	0.5BNR-C/T-5/0.47C	000490	033770	–	–	–
•	0.5µL	50	23 (0.63)	Cone	0.5BNR-C/T-5/0.63C	000492	033772	–	–	–
•	10µL	50	26 (0.47)	Cone	10R-C/T-5/0.47C	002982	037785	2	–	–
•	10µL	50	23 (0.63)	Cone	10R-C/T-5/0.63C	002984	037787	2	–	–
•	10µL	80	26 (0.47)	Cone	10R-C/T-8/0.47C	002993	031535	3	–	–

SYRINGES: GC AUTOSAMPLER

Varian

All syringes, needles and plungers are supplied in packs of one unless otherwise noted.

Volume	Needle Length	Needle Gauge (OD mm)	Tip Style	Syringe Code	Syringe Part No.	Needle Part No.	Pack Size	Plunger Part No.	Pack Size
Varian 8035, 8100 and 8200									
Removable Needle									
1µL*	51	26 (0.47)	Cone	1BR-VA8X	000655	034720	1**	-	-
10µL <i>Gas Tight</i>	53	25 (0.5)	S/Hole	10R-VA8X-II	002924	037777	1	031218	1
Fixed Needle									
10µL <i>Gas Tight</i>	53	25 (0.5)	S/Hole	10F-VA8X-II	002923	-	-	031218	1
Needle Alternatives for P/N 002924									
	50	25 (0.5)	Bevel	N10-VA8035-II	-	037776	2	-	-
	105	-	OC	N10-VA8035-0.17-II	-	037778	2	-	-
	53	23 (0.63)	S/Hole	N10-VA8X00H-0.63-II	-	037779	2	-	-
	53	25 (0.5)	S/Hole	N10-VA800H-II(0.2)	-	037780	1	-	-
100µL	53	25 (0.5)	S/Hole	100R-VA8X	005921	038745	1	031824	1
Varian CP-8400/8410, CP-9010/9050									
Fixed Needle									
10µL	50	26 (0.47)	Bevel	10F-VA8400-5/0.47	002950	-	-	-	-
10µL	50	23 (0.63)	Cone	10F-C/T-5/0.63C	002981	-	-	-	-
Removable Needle									
10µL	50	26 (0.47)	Cone	10R-C/T-5/0.47C	002982	037785	2	-	-

*Not suitable for 8200 autosampler. **Denotes Plunger and Needle Kit.

CTC/Leap

All needles are 50mm long. All syringes, needles and plungers are supplied in packs of one unless otherwise noted. For multipacks see page 23.

Volume	Needle Gauge (OD mm)	Tip Style	Syringe Code	Syringe Part No.	Needle Part No.	Pack Size	Plunger Part No.	Pack Size
Fixed Needle								
5µL	26 (0.47)	Cone	5F-C/T-5/0.47C	001982	-	-	-	-
5µL	23 (0.63)	Cone	5F-C/T-5/0.63C	001981	-	-	-	-
10µL	26 (0.47)	Cone	10F-C/T-5/0.47C	002980	-	-	-	-
10µL	23 (0.63)	Cone	10F-C/T-5/0.63C	002981	-	-	-	-
10µL	26 (0.47)	Bevel	10F-C/T-5/0.47BV	002705	-	-	-	1
10µL <i>Gas Tight</i>	23 (0.63)	Cone	10F-C/T-GT-5/0.63C	002987	-	-	0318120	2
25µL	26 (0.47)	Cone	25F-C/T-5/0.47C	003980	-	-	-	-
25µL <i>Gas Tight</i>	26 (0.47)	Cone	25F-CTC-GT-5/0.47C	003700	-	-	0318922	1
25µL <i>Gas Tight</i>	23 (0.63)	Cone	25F-C/T-GT-5/0.63C	003987	-	-	031817	1
100µL <i>Gas Tight</i>	26 (0.47)	Cone	100F-C/T-GT-5/0.47C	005700	-	-	0318924	1
100µL <i>Gas Tight</i>	23 (0.63)	Cone	100F-C/T-GT-5/0.63C	005335	-	-	0318261	1
250µL <i>Gas Tight</i>	26 (0.47)	Cone	250F-CTC-GT-5/0.47C	006700	-	-	0318926	1
500µL <i>Gas Tight</i>	26 (0.47)	Cone	500F-CTC-GT-5/0.47C	007700	-	-	0318928	1
Removable Needle								
0.5µL	26 (0.47)	Cone	0.5BNR-C/T-5/0.47C	000490	033770	1**	-	-
0.5µL	23 (0.63)	Cone	0.5BNR-C/T-5/0.63C	000492	033772	1**	-	-
10µL	26 (0.47)	Cone	10R-C/T-5/0.47C	002982	037785	2	-	-
10µL	23 (0.63)	Cone	10R-C/T-5/0.63C	002984	037787	2	-	-
10µL <i>Gas Tight</i>	26 (0.47)	Cone	10R-C/T-GT-5/0.47C	002985	037785	2	0318922	2
25µL <i>Gas Tight</i>	26 (0.47)	S/Hole	25R-C/T-GT-5/0.47H	003988	038749	2	031816	1
100µL <i>Gas Tight</i>	26 (0.47)	Cone	100R-C/T-GT-5/0.47C	005333	038732	2	031826	1

**Denotes spare Needle and Plunger kit.

SYRINGES: MICRO-VOLUME

0.5µL – 5µL

All syringes are supplied in packs of one. All replacement plunger-in-needle kits are supplied in packs of one.

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Tip Style	Syringe Code	Syringe Part No.	Replacement Needle Part No.
Plunger-in-needle - 6.5mm OD Barrel						
0.5µL	50	23 (0.63)	Cone	0.5BNR-5	000300	033010**
0.5µL	50	23 (0.63)	Bevel	0.5BNR-5BV	000301	033011**
0.5µL	50	26 (0.47)	Cone	0.5BNR-5/0.47	000303	033012**
Plunger-in-needle - 8mm OD Barrel						
0.5µL	70	23 (0.63)	Cone	0.5BR-7	000310	033057**
0.5µL	70	23 (0.63)	Bevel	0.5BR-7BV	000311	033060**
1µL	50	23 (0.63)	Cone	1BR-5	000500	034055**
1µL	50	23 (0.63)	Bevel	1BR-5BV	000501	034056**
1µL	70	23 (0.63)	Cone	1BR-7	000505	034057**
1µL	70	23 (0.63)	Bevel	1BR-7BV	000506	034060**
1µL	115	23 (0.63)	Cone	1BR-11.5	000510	034059**
1µL	70	26 (0.47)	Cone	1BR-7/0.47	000570	034610**
5µL	50	23 (0.63)	Cone	5BR-5	000800	035055**
5µL	50	23 (0.63)	Bevel	5BR-5BV	000801	035056**
5µL	70	23 (0.63)	Cone	5BR-7	000802	035057**
5µL	70	23 (0.63)	Bevel	5BR-7BV	000803	035058**
5µL	115	23 (0.63)	Cone	5BR-11.5	000804	035059**
5µL	70	23 (0.63)	Nozzle	5BR-7N	000805	035060**
Plunger-in-needle - 6.5mm OD Barrel with Repeating Adaptor						
0.5µL	50	23 (0.63)	Cone	0.5BNR-5-RA6	000350	033010**
0.5µL	50	26 (0.47)	Cone	0.5BNR-5/0.47-RA6	000353	033012**
Plunger-in-needle - 8mm OD Barrel with Repeating Adaptor						
0.5µL	70	23 (0.63)	Cone	0.5BR-7-RAB	000355	033057**
1µL	50	23 (0.63)	Cone	1BR-5-RAB	000550	034055**
1µL	70	23 (0.63)	Cone	1BR-7-RAB	000553	034057**
5µL	50	23 (0.63)	Cone	5BR-5-RAB	000850	035055**
5µL	70	23 (0.63)	Cone	5BR-7-RAB	000852	035057**

** Replacement Plunger and Needle Kit.

5µL – 10µL

All syringes are supplied in packs of one.

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Tip Style	Syringe Code	Syringe Part No.	Replacement Needle Part No.
Fixed Needle - Plunger Protection Syringes						
5µL	50	26 (0.47)	Bevel	5F	001000	-
5µL	70	26 (0.47)	Bevel	5F-7	001002	-
5µL ^(M)	42	23 (0.63)	Cone	5F-4.2/0.63C	001839	-
10µL	50	26 (0.47)	Bevel	10F	002000*	-
10µL	70	26 (0.47)	Bevel	10F-7	002003	-
10µL	50	26 (0.47)	Cone	10F-5C	002005	-
10µL	115	26 (0.47)	Bevel	10F-11.5	002007	-
10µL ^(M)	42	23 (0.63)	Cone	10F-4.4/0.63C	002839	-
Fixed Needle - SuperfleX™ Flexible Plunger						
5µL	50	26 (0.47)	Bevel	5FX	001100	-
5µL	50	26 (0.47)	Cone	5FX-5C	001105	-
10µL	50	26 (0.47)	Bevel	10FX	002100*	-
10µL	70	26 (0.47)	Bevel	10FX-7	002101	-
10µL	50	26 (0.47)	Cone	10FX-5C	002105*	-
10µL ^(M)	50	23 (0.63)	Cone	10FX-5/0.63C	002108*	-
Fixed Needle - Guided Plunger						
5µL	50	26 (0.47)	Bevel	5F-GP	001400	-
10µL	50	26 (0.47)	Bevel	10F-GP	002400	-
Fixed Needle - 6.5mm OD Barrel with Repeating Adaptor						
10µL	50	26 (0.47)	Bevel	10F-RA6	002040	-

* See page 23 for multipacks listing. ^(M)Suitable for use with the Merlin Microseal™ Injector.

SYRINGES: MICRO-VOLUME

5µL – 10µL continued

All needles have a bevel point style. All syringes are supplied in packs of one. All replacement needles are supplied in packs of 5.

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Replacement Needle Part No.
Removable Needle - Plunger Protection					
5µL	50	26 (0.47)	5R	001050	036110
10µL	50	26 (0.47)	10R	002050 *	037110
10µL	70	26 (0.47)	10R-7	002055	037130
Removable Needle - SuperfleX™ Flexible Plunger					
5µL	50	26 (0.47)	5RX	001150 *	036110
10µL	50	26 (0.47)	10RX	002150	037110
Removable Needle - Guided Plunger					
5µL	50	26 (0.47)	5R-GP	001450	036110
5µL	70	26 (0.47)	5R-GP-7	001455	036130
10µL	50	26 (0.47)	10R-GP	002450	037110
10µL	70	26 (0.47)	10R-GP-7	002453	037130
Removable Needle - Short (Half Scale) Guided Plunger					
5µL	50	26 (0.47)	5R-GPS	001495	036110
Removable Needle - 6.5mm OD Barrel with Repeating Adaptor					
5µL	50	26 (0.47)	5R-RA6	001090	036110
10µL	50	26 (0.47)	10R-RA6	002090	037110
Removable Needle - Guided Plunger & Repeating Adaptor					
5µL	50	26 (0.47)	5R-GP-RA8	001490	036110
10µL	50	26 (0.47)	10R-GP-RA8	002490	037110
10µL	70	26 (0.47)	10R-GP-7-RA8	002493	037130

* See page 23 for multipacks listing.

25µL – 500µL

All needles have a bevel point style. All syringes are supplied in packs of one. All replacement needles are supplied in packs of 5.

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Replacement Needle Part No.
Fixed Needle - Standard Plunger					
25µL	50	25 (0.50)	25F	003000	-
50µL	50	25 (0.50)	50F	004000	-
100µL	50	25 (0.50)	100F	005000	-
250µL	50	25 (0.50)	250F	006000	-
500µL	50	25 (0.50)	500F	007000	-
Removable Needle - Standard Plunger					
25µL	50	25 (0.50)	25R	003050	038110
50µL	50	25 (0.50)	50R	004050	038110
100µL	50	25 (0.50)	100R	005050	038110
250µL	50	25 (0.50)	250R	006050	038110
500µL	50	25 (0.50)	500R	007050	038110
Removable Needle - Repeating Adaptor					
25µL	50	25 (0.50)	25R-RA8	003090	038110
50µL	50	25 (0.50)	50R-RA8	004090	038110
100µL	50	25 (0.50)	100R-RA8	005090	038110

SYRINGES: GAS TIGHT

10µL – 500µL

All needles have a bevel point style and have replaceable PTFE-tipped plungers. All replacement needles are supplied in packs of five.

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Replacement Needle Part No.	Replacement Plunger Part No.	Replacement Plunger Pack Size
Fixed Needle							
10µL	50	26 (0.47)	10F-GT	002200*	-	031810	2
10µL	70	26 (0.47)	10F-GT-7	002208	-	031810	2
25µL	50	25 (0.50)	25F-GT	003200	-	031815	1
50µL	50	25 (0.50)	50F-GT	004200	-	031820	1
100µL	50	25 (0.50)	100F-GT	005200	-	031825	1
250µL	50	25 (0.50)	250F-GT	006200	-	031830	1
500µL	50	25 (0.50)	500F-GT	007200	-	031835	1
Fixed Luer Tip							
50µL	-	-	50F-LT-GT	004229	-	031820	1
100µL	-	-	100F-LT-GT	005229	-	031825	1
250µL	-	-	250F-LT-GT	006229	-	031830	1
500µL	-	-	500F-LT-GT	007229	-	031835	1
Fixed Luer Lock							
50µL	-	-	50F-LL-GT	004230	-	031820	1
100µL	-	-	100F-LL-GT	005230	-	031825	1
250µL	-	-	250F-LL-GT	006230	-	031830	1
500µL	-	-	500F-LL-GT	007230	-	031835	1
Fixed Luer Lock with Plunger Stop							
50µL	-	-	50F-LLX-GT	004232	-	0318221	1
100µL	-	-	100F-LLX-GT	005232	-	0318271	1
250µL	-	-	250F-LLX-GT	006232	-	031833	1
500µL	-	-	500F-LLX-GT	007232	-	0318381	1
Removable Needle							
10µL	50	26 (0.47)	10R-GT	002250*	037110	031811	2
25µL	50	25 (0.50)	25R-GT	003250	038110	031815	1
50µL	50	25 (0.50)	50R-GT	004250	038110	031820	1
100µL	50	25 (0.50)	100R-GT	005250	038110	031825	1
250µL	50	25 (0.50)	250R-GT	006250	038110	031830	1
500µL	50	25 (0.50)	500R-GT	007250	038110	031835	1
Removable Needle - Guided Plunger Syringe							
10µL	50	26 (0.47)	10R-GP-GT	002455	037110	031805	1
Removable Needle - On-column Syringe with Square Cut Stainless Steel Tip							
10µL	75	(0.23)	10R-GT-OC-CE	002500	037675	031811	2

* See page 23 for multipacks listing.

1mL – 100mL

All needles have a bevel point style and have replaceable PTFE tipped plungers. All replacement needles are supplied in packs of five.

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Syringe Code	Syringe Part No.	Replacement Needle Part No.	Replacement Plunger Part No.	Replacement Plunger Pack Size
Fixed Needle							
1mL	50	22 (0.72)	1MDF-GT	008102	LL	0318441	1
2.5mL	50	22 (0.72)	2.5MDF-GT	008502	LL	0318542	1
Fixed Luer Tip							
1mL	-	-	1MDF-LT-GT	008020	LL	031842	1
2.5mL	-	-	2.5MDF-LT-GT	008420	LL	031852	1
Fixed Luer Lock							
1mL	-	-	1MDF-LL-GT	008025	LL	031842	1
2.5mL	-	-	2.5MDF-LL-GT	008425	LL	031852	1
5mL	-	-	5MDF-LL-GT	008762	LL	0318562	1
10mL	-	-	10MDF-LL-GT	008962	LL	031864	1
25mL	-	-	25MDF-LL-GT	009463	LL	031874	1
Removable Needle							
1mL	50	23 (0.63)	1MDR-GT	008100	039110	031842	1
2.5mL	50	23 (0.63)	2.5MDR-GT	008500	039110	031852	1
5mL	50	23 (0.63)	5MDR-GT	008700	031516	031856	1
10mL	50	23 (0.63)	10MDR-GT	008900	031516	031862	1
Removable Luer Lock							
5mL	-	-	5MDR-LL-GT	008760	LL	031856	1
10mL	-	-	10MDR-LL-GT	008960	LL	031862	1
25mL	-	-	25MDR-LL-GT	009462	LL	031864	1
50mL	-	-	50MR-LL-GT	009660	LL	0312170	1
100mL	-	-	100MR-LL-GT	009760	LL	0312176	1

LL= for replacement Luer Lock needles, please refer to page 25.

SYRINGES: LC AUTOSAMPLER

Agilent Technologies (HP) LC Autosampler Syringes

Volume	Termination Type	Syringe Code	Syringe Part No.	Plunger Part No.
HP 1090				
25µL <i>Gas Tight</i>	1/4-32 UNEF screw thread	25D-HP-1090	003670	0318181
250µL <i>Gas Tight</i>	1/4-32 UNEF screw thread	250D-HP-1090	006670	031829

CTC LC Autosampler Syringes

All needles are 51mm long, 0.72mm OD and have an LC point style.

Volume	Syringe Code	Syringe Part No.	Needle Part No.	Needle Pack Size	Plunger Part No.	Plunger Pack Size
Fixed Needle						
10µL	10F-CTC-LC	002700	-	-	0318920	1
10µL <i>Gas Tight</i>	10F-C/T-GT-LC	002991	-	-	0318120	2
25µL	25F-C/T-LC	003984	-	-	-	-
25µL <i>Gas Tight</i>	25F-CTC-GT-LC	003715	-	-	0318922	1
50µL <i>Gas Tight</i>	50F-C/T-GT-LC	004810	-	-	031821	1
100µL <i>Gas Tight</i>	100F-C/T-GT-LC	005331	-	-	0318924	1
100µL <i>Gas Tight</i>	100F-C/T-GT-LC(0.41)	005720	-	-	0318924	1
250µL <i>Gas Tight</i>	250F-CTC-GT-LC(0.41)	006720	-	-	0318926	1
500µL <i>Gas Tight</i>	500F-CTC-GT-LC(0.41)	007720	-	-	0318928	1
Removable Needle						
25µL <i>Gas Tight</i>	25R-C/T-GT-LC	003985	032252	5	0318922	1
100µL <i>Gas Tight</i>	100R-C/T-GT-LC	005330	038250	5	0318924	1
250µL <i>Gas Tight</i>	250R-C/T-GT-LC	006330	038250	5	0318926	1

Hitachi LC Autosampler Syringes

Volume	Termination Type	Syringe Code	Syringe Part No.	Plunger Part No.
L7200/7250, AS1000/2000/4000				
500µL <i>Gas Tight</i>	M10 - 1.0 screw thread	500C-HITACHI	007660	031837

Perkin Elmer LC Autosampler Syringes

Volume	Termination Type	Syringe Code	Syringe Part No.	Plunger Part No.
Series 200				
50µL <i>Gas Tight</i>	1/4-28 UNF screw thread	50D-CX	004995	-
100µL <i>Gas Tight</i>	1/4-28 UNF screw thread	100D-CX-GT	005990	-
250µL <i>Gas Tight</i>	1/4-28 UNF screw thread	250D-CX-GT	006995	0318341
500µL <i>Gas Tight</i>	1/4-28 UNF screw thread	500D-CX-GT	007995	0318381
1mL <i>Gas Tight</i>	1/4-28 UNF screw thread	1MD-C-GT	008185	0318441
2.5mL <i>Gas Tight</i>	1/4-28 UNF screw thread	2.5MD-C-GT	008687	0318541

Spark Holland Promis LC Autosampler Syringes

Volume	Termination Type	Syringe Code	Syringe Part No.	Plunger Part No.
250µL <i>Gas Tight</i>	Luer Lock	250D-SPARK-GT	006683	0318348
1mL <i>Gas Tight</i>	Luer Lock	1MD-SPARK-GT	008183	0318448

SYRINGES: LC AUTOSAMPLER

ThermoQuest - CE Instruments LC Autosampler Syringes

Volume	Termination Type	Syringe Code	Syringe Part No.	Plunger Part No.	Pack Size
SP8780/8875/8880					
500µL <i>Gas Tight</i>	1/4-28 UNF screw thread	500C-THERMOSPEC	007680	031838	1
2.5mL <i>Gas Tight</i>	1/4-28 UNF screw thread	2.5MC-THERMOSPEC	008660	031853	1
AS100/300 & AS1000/3000/3500					
250µL <i>Gas Tight</i>	1/4-28 UNF screw thread	250C-THERMOSPEC	006660	031833	1
500µL <i>Gas Tight</i>	1/4-28 UNF screw thread	500C-THERMOSPEC	007680	031838	1
1mL <i>Gas Tight</i>	1/4-28 UNF screw thread	1MC-THERMOSPEC	008180	031844	1
2.5mL <i>Gas Tight</i>	1/4-28 UNF screw thread	2.5MC-THERMOSPEC	008660	031853	1
5mL <i>Gas Tight</i>	1/4-28 UNF screw thread	5MC-THERMOSPEC	008780	031856	1

Waters / WISP / Alliance LC Autosampler Syringes

Volume	Termination Type	Syringe Code	Syringe Part No.	Plunger Part No.	Pack Size
WISP					
25µL	1/4-28 UNF screw thread	25D-WISP	003990	031819	1
250µL	1/4-28 UNF screw thread	250D-WISP	006690	031834	1
WISP Dipper Needle		N-121/1.59(0.5)SH		038265	1

SYRINGES: LC MANUAL

Beckman/Altex, Rheodyne, SSI, Valco Valves

All needles are 51mm long with an LC point style. All replacement needles are supplied in packs of five.

Volume	Needle Gauge (OD inch)	Syringe Code	Syringe Part No.	Replacement Needle Part No.	Replacement Plunger Part No.	Replacement Plunger Pack Size
Fixed Needle						
5µL	22 (0.028")	5F-LC	001301	-	-	-
10µL	22 (0.028")	10F-LC	002301*	-	-	-
10µL <i>Gas Tight</i>	22 (0.028")	10F-LC-GT	002335	-	031810	2
25µL	22 (0.028")	25F-LC	003300	-	-	-
50µL	22 (0.028")	50F-LC	004300	-	-	-
100µL	22 (0.028")	100F-LC	005300	-	-	-
250µL	22 (0.028")	250F-LC	006300	-	-	-
500µL	22 (0.028")	500F-LC	007300	-	-	-
Fixed Needle - Superflex™ Plunger						
10µL	22 (0.028")	10FX-LC	002300*	-	-	-
Removable Needle						
5µL	22 (0.028")	5R-LC	001310	036250	-	-
10µL	22 (0.028")	10R-LC	002310	037250	-	-
10µL <i>Gas Tight</i>	22 (0.028")	10R-GT-LC	002313	037250	031811	2
25µL	22 (0.028")	25R-LC	003310	038250	-	-
25µL <i>Gas Tight</i>	22 (0.028")	25R-GT-LC	003312	038250	031815	1
50µL	22 (0.028")	50R-LC	004310	038250	-	-
50µL <i>Gas Tight</i>	22 (0.028")	50R-GT-LC	004312	038250	031820	1
100µL	22 (0.028")	100R-LC	005310	038250	-	-
100µL <i>Gas Tight</i>	22 (0.028")	100R-GT-LC	005312	038250	031825	1
250µL	22 (0.028")	250R-LC	006310	038250	-	-
250µL <i>Gas Tight</i>	22 (0.028")	250R-GT-LC	006312	038250	031830	1
500µL	22 (0.028")	500R-LC	007310	038250	-	-
500µL <i>Gas Tight</i>	22 (0.028")	500R-GT-LC	007312	038250	031835	1
1mL <i>Gas Tight</i>	22 (0.028")	1MDR-LC-GT	008105	039250	031842	1
2.5mL <i>Gas Tight</i>	22 (0.028")	2.5MDR-LC-GT	008505	039250	031852	1
Removable Needle - Superflex™ Plunger						
10µL	22 (0.028")	10RX-LC	002350	037250	-	-
Removable Needle - with Repeating Adaptor						
10µL	22 (0.028")	10R-LC-RA6	002345	037250	-	-
25µL	22 (0.028")	25R-LC-RA8	003320	038250	-	-
50µL	22 (0.028")	50R-LC-RA8	004320	038250	-	-
100µL	22 (0.028")	100R-LC-RA8	005320	038250	-	-
250µL	22 (0.028")	250R-LC-RA8	006320	038250	-	-
500µL	22 (0.028")	500R-LC-RA8	007320	038250	-	-

* See page 23 for multipacks listing.

Waters U6K Valves

All needles are 50mm long with an LC point style. All replacement needles are supplied in packs of five.

Volume	Needle Gauge (OD inch)	Syringe Code	Syringe Part No.	Replacement Needle Part No.	Replacement Plunger Part No.	Replacement Plunger Pack Size
Removable Needle - with Repeating Adaptor						
25µL	25 (0.50)	25R-WLC-RA8	003375	038260	-	-
50µL	25 (0.50)	50R-WLC-RA8	004375	038260	-	-
100µL	25 (0.50)	100R-WLC-RA8	005375	038260	-	-
250µL	25 (0.50)	250R-WLC-RA8	006375	038260	-	-
500µL	25 (0.50)	500R-WLC-RA8	007375	038260	-	-

LC Pump Priming Syringes

All replacement needles are supplied in packs of five.

Volume	Needle Gauge (OD inch)	Syringe Code	Syringe Part No.	Replacement Needle Part No.	Replacement Plunger Part No.	Replacement Plunger Pack Size
Fixed Luer Lock						
1mL <i>Gas Tight</i>	-	1MDF-LL-GT	008025	-	0318441	1
2.5mL <i>Gas Tight</i>	-	2.5MDF-LL-GT	008425	-	031852	1
5mL <i>Gas Tight</i>	-	5MDF-LL-GT	008762	-	0318562	1
10mL <i>Gas Tight</i>	-	10MDF-LL-GT	008962	-	031864	1
25mL <i>Gas Tight</i>	-	25MDF-LL-GT	009463	-	031874	1

SYRINGES: INSTRUMENT SYRINGES

General Instrument - Replacement for Hamilton C & CX Syringes

Volume	Description	Syringe Code	Syringe Part No.	Plunger Part No.
25µL	1/4-28 UNF termination with plunger stop	25D-CX	003995	0318191
50µL	1/4-28 UNF termination with plunger stop	50D-CX	004995	0318221
100µL	1/4-28 UNF termination with plunger stop	100D-CX	005990	0318271
250µL	1/4-28 UNF termination with plunger stop	250D-CX	006995	0318341
500µL	1/4-28 UNF termination with plunger stop	500D-CX	007995	0318381
1mL	1/4-28 UNF termination	1MD-C	008185	0318441
2.5mL	1/4-28 UNF termination	2.5MD-C	008687	0318541
5mL	1/4-28 UNF termination	5MD-C	008787	0318591
10mL	1/4-28 UNF termination	10MD-C	008987	0318631

Hamilton AccuDil™ & MicroLab® Instrument Syringes

Volume	Description	Syringe Code	Syringe Part No.	Plunger Part No.
50µL	Luer Lock Termination with plunger stop	50F-LLX-GT	004232	0318223
100µL	Luer Lock Termination with plunger stop	100F-LLX-GT	005232	0318273
250µL	Luer Lock Termination with plunger stop	250F-LLX-GT	006232	0318343
500µL	Luer Lock Termination with plunger stop	500F-LLX-GT	007232	0318383
1mL	Luer Lock Termination	1MDF-LL-GT	008025	031842
2.5mL	Luer Lock Termination	2.5MDF-LL-GT	008425	031852
5mL	Luer Lock Termination	5MDF-LL-GT	008762	0318562
10mL	Luer Lock Termination	10MDF-LL-GT	008962	031864
25mL	Luer Lock Termination	25MDF-LL-GT	009463	031874

Zymark Robotics Instrument Syringes

Volume	Description	Syringe Code	Syringe Part No.	Plunger Part No.
2.5mL	Slotted Luer Lock Termination	2.5MD-Zymark-GT	008692	0318547
5mL	Slotted Luer Lock Termination	5MD-Zymark-GT	008792	0318597
10mL	Slotted Luer Lock Termination	10MD-Zymark-GT	008992	0318637
25mL	Slotted Luer Lock Termination	25MD-Zymark-GT	009492	0318717

Cavro Instrument Syringes

Volume	Description	Syringe Code	Syringe Part No.	Plunger Part No.
1mL	Cavro XL syringe with Luer Lock termination	1MD-LL-Cav(XL)	008140	0318443
2.5mL	Cavro XL syringe with Luer Lock termination	2.5MD-LL-Cav(XL)	008685	0318545
5mL	Cavro XL syringe with Luer Lock termination	5MD-LL-Cav(XL)	008785	0318595
10mL	Cavro XL syringe with Luer Lock termination	10MD-LL-Cav(XL)	008985	0318635
25mL	Cavro XL syringe with Luer Lock termination	25MD-LL-Cav(XL)	009485	0318715

Shimadzu Total Organic Carbon Analyzer Syringes - TOC5000

Volume	Description	Syringe Code	Syringe Part No.	Plunger Part No.
250µL	1/4-28 UNF termination	250C-SHIM(TOC)	006680	031832
2.5mL	1/4-28 UNF termination	2.5MC-SHIM(TOC)	008680	031854

SYRINGES: SPECIAL SYRINGES, SYRINGE VALVES

Jumbo Syringes

Volume	Syringe Code	Syringe Part No.	Replacement Plunger O-ring Part No.
500mL	500MAR-LL-GT	009910	032527
1L	1000MAR-LL-GT	009920	032532
2L	2000MAR-LL-GT	009930	032537

On-Column Syringes

Volume	Needle Length (mm)	OD (mm)	Needle Material	Syringe Code	Syringe Part No.	Replacement Needle Part No.	Pack Size Needle
0.5µL	100	0.23	Sheathed S/Steel	0.5BR-OC-100S	000372	033610	2
	70	0.47	Stainless Steel	0.5BR-OC-7/0.47	000376	033630	2
	75	0.23	Stainless Steel	0.5BR-OC-CE-7.5	000380	033620	2
5µL	100	0.17	Fused Silica	5R-OC-100VS	001552	036610	3
	100	0.17	Sheathed Fused Silica	5R-OC-100SVS	001554	036635	3
10µL	100	0.17	Fused Silica	10R-OC-100VS	002520	037610	3

Syringes Pre-fitted with Valves

Volume	Syringe Code	Syringe Part No.	Replacement Plunger Part No.	Replacement Needle Part No.	Replacement Valve Part No.
Pre-fitted with Removable Needle and Valve					
50µL	50R-V-GT	004279	031820	038810	031905
100µL	100R-V-GT	005279	031825	038810	031905
250µL	250R-V-GT	006279	031830	038810	031905
500µL	500R-V-GT	007279	031835	038810	031905
1mL	1MR-V-GT	008110	031842	038810	031905
2.5mL	2.5MDR-V-GT	008510	031852	038810	031905
Pre-fitted with Luer Lock Valve					
1mL	1MR-VLL-GT	008160	031842	–	031907
2.5mL	2.5MDR-VLL-GT	008560	031852	–	031907
5mL	5MDR-VLLMA-GT	008770	031856	–	031910
10mL	10MDR-VLLMA-GT	008970	031862	–	031910
25mL	25MDR-VLLMA-GT	009472	031870	–	031910
50mL	50MR-VLLMA-GT	009670	0312170	–	031910
100mL	100MR-VLLMA-GT	009770	0312176	–	031910

Syringe Valves

Valve Type	Syringe Volume	Valve Code	Pack Size Needle	Valve Part No.	Needle Code	Replacement Needle Part No.
For Removable Needle Syringes						
Push-pull with needle	25µL-2.5mL	V25/2.5M-0.63C	1	031905*	NV25145M-0.63C	038810
		V25/2.5M-0.47C	1	031906#	NV2512.5M-0.47C	038820
Push-pull with Luer Lock	25µL-2.5mL	VLL25/2.5M	–	031907	–	–
Push Button with Luer Lock	5mL-2L	VLLMA	–	031910	–	–
Septum	5mL-2L	VLLMA5/2000	–	031911	–	–

For Luer Lock or Luer Tip Syringes

Push Button with Luer Lock	50µL-2L	SLLV	–	031915	–	–
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*50mm, 0.63mm OD cone tip needle #50mm, 0.47mm OD cone tip needle

Septum valve for 5mL-2L syringe.
Part No. 031911



Push button valve with Luer Lock termination. Suits 5mL-2L syringes with removable Luer Lock or removable needle.
Part No. 031910



Push-pull valve with Luer Lock termination to suit removable needle 25µL-2.5mL syringes.
Part No. 031907



Push-pull valve with replaceable cone tip needle, to suit removable needle 25µL-2.5mL syringes.
Part No. 031905

Luer Lock valve for any Luer Lock and Luer Tip syringes or other Luer devices.
Part No. 031915

SYRINGES: MULTIPACKS

GC Autosampler Syringes

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Tip Style	Single Pack Part No.	6 Pack Part No.	10 Pack Part No.	25 Pack Part No.
Agilent Technologies							
Fixed Needle							
5µL	42	26 (0.47)	Cone	001800	001804	-	-
	42	23 (0.63)	Cone	001810	001814	-	-
10µL	42	26 (0.47)	Cone	002800	002804	-	-
	42	23 (0.63)	Cone	002810	002814	-	002813
Fixed Needle - Tapered							
5µL	42	23-26 (0.63/0.47)	Cone	001821	001822	-	-
10µL	42	23-26 (0.63/0.47)	Cone	002821	002822	-	002824
Gas Tight Plunger - Tapered Needle							
10µL	42	23-26 (0.63/0.47)	Cone	002826	002827	-	-
SuperfleX™ Flexible Plunger							
Fixed Needle							
10µL	42	26 (0.47)	Cone	002830	002831	-	-
	42	23 (0.63)	Cone	002835	002838	-	-
CTC/LEAP & Thermo Finnigan							
Fixed Needle							
10µL	50	26 (0.47)	Cone	002980	002986	-	-

MicroVolume & Gas Tight Syringes

Volume	Needle Length (mm)	Needle Gauge (OD mm)	Tip Style	Single Pack Part No.	6 Pack Part No.	10 Pack Part No.	25 Pack Part No.
Standard Plunger							
Fixed Needle							
10µL	50	26 (0.47)	Bevel	002000	002030	002033	002035
Removable Needle							
10µL	50	26 (0.47)	Bevel	002050	002080	-	-
Gas Tight Plunger							
Fixed Needle							
10µL	50	26 (0.47)	Bevel	002200	002202	-	-
Removable Needle							
10µL	50	26 (0.47)	Bevel	002250	002252	-	-
SuperfleX™ Flexible Plunger							
Fixed Needle							
10µL	50	26 (0.47)	Bevel	002100	002130	-	-
	50	26 (0.47)	Cone	002105	002133	-	-
	50	23 (0.63)	Cone	002108	002135	-	-
Removable Needle							
10µL	50	26 (0.47)	Bevel	002150	002180	-	-

LC Manual Syringes

Volume	Needle Length	Needle Gauge (OD mm)	Tip Style	Single Pack Part No.	6 Pack Part No.	10 Pack Part No.	25 Pack Part No.
Standard Plunger							
Fixed Needle							
10µL	2"	22 (0.028")	LC	002301	002315	-	-
SuperfleX™ Flexible Plunger							
Fixed Needle							
10µL	2"	22 (0.028")	LC	002300	002330	-	-

SYRINGES: REPLACEMENT NEEDLES

Selection by Volume

Syringe Volume	Needle Length (mm)	Needle Gauge	OD (mm)	Tip Style	Pack Size	Needle Part No.	
5µL	50	26	0.47	Cone	2	036010	
	50	23	0.63	Cone	2	036011	
	70	26	0.47	Cone	2	036030	
	70	23	0.63	Cone	2	036031	
	115	26	0.47	Cone	2	036060	
	50	26	0.47	Bevel	5	036110	
	70	26	0.47	Bevel	5	036130	
	115	26	0.47	Bevel	5	036160	
	51(2")	22	0.028"	LC	5	036250	
	50	26	0.47	Sheathed/Bevel	2	036310	
	50	26	0.47	Side Hole/Dome	2	036410	
	50	26	0.47	Dome	2	036510	
	70	26	0.47	Dome	2	036530	
	50	-	0.17	On-column	2	036603	
	75	-	0.17	On-column	2	036605	
	100	-	0.17	On-column	2	036610	
	110	-	0.17	On-column	2	036625	
	100	-	0.17	On-column	2	036635	
	107	-	0.19	On-column	2	036651	
	75	-	0.23	On-column	2	036675	
	95	-	0.27	On-column	2	036685	
10µL	50	26	0.47	Cone	2	037010	
	50	23	0.63	Cone	2	037011	
	70	26	0.47	Cone	2	037030	
	70	23	0.63	Cone	2	037031	
	115	26	0.47	Cone	2	037060	
	50	26	0.47	Bevel	5	037110	
	50	23	0.63	Bevel	5	037111	
	70	26	0.47	Bevel	5	037130	
	115	26	0.47	Bevel	5	037160	
	51(2")	22	0.028"	LC	5	037250	
	70	22	0.028"	LC	5	037270	
	70	26	0.47	Sheathed/Bevel	2	037330	
	50	26	0.47	Side Hole/Dome	2	037410	
	50	26	0.47	Dome	2	037510	
	75	26	0.47	Dome	2	037540	
	75	-	0.17	On-column	2	037605	
	100	-	0.17	On-column	2	037610	
	75	-	0.23	On-column	2	037675	
	25-500µL	50	25	0.5	Cone	2	038010
		70	25	0.5	Cone	2	038030
		115	25	0.5	Cone	2	038060
50		25	0.5	Bevel	5	038110	
50		23	0.63	Bevel	5	038111	
70		25	0.5	Bevel	5	038130	
70		23	0.63	Bevel	5	038131	
115		25	0.5	Bevel	5	038160	
115		23	0.63	Bevel	5	038161	
51(2")		22	0.028"	LC	5	038250	
50		25	0.5	LC	5	038260	
70		22	0.028"	LC	5	038270	
50		25	0.5	Sheathed/Bevel	2	038310	
50		25	0.5	Side Hole/Dome	2	038410	
70		25	0.5	Side Hole/Dome	2	038430	
115		25	0.5	Side Hole/Dome	2	038460	
50		25	0.5	Dome	2	038510	
70		25	0.5	Dome	2	038530	
50		25	0.5	PTFE Coated	2	038910	
1-2.5mL		50	23	0.63	Bevel	5	039110
		50	23	0.63	Dome	2	039116
	70	23	0.63	Bevel	5	039130	
	115	23	0.63	Bevel	5	039160	
	51(2")	22	0.028"	LC	5	039250	
	50	25	0.5	LC	5	039260	

GC: Consumables: Septa, Additional Liners

Septa




For information on how to order septa by instrument make and model, please see the Quick Pick section in this catalog.

Type	Material	Durability	Resealing	Bleed	Solvent Resistance	Tear Resistance	Maximum Temp. (°C)
CS	PTFE coated silicone (one face)	Good	Good	Very good	Excellent	Good	200
TCS	PTFE-coated triple layer silicone	Excellent	Very good	Excellent	Excellent	Very good	280
TCS D	Pre-drilled TCS septa	Excellent	Excellent	Excellent	Excellent	Excellent	280
Auto-Sep™	Silicone	Excellent	Excellent	Very good	Excellent	Very good	320
Auto-Sep™	PTFE coated silicone (one face)	Excellent	Excellent	Excellent	Excellent	Excellent	350
Enduro™ Blue	Silicone	Excellent	Excellent	Excellent	Excellent	Excellent	350

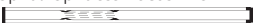


Type	Diameter (mm)	CS	Pack size	TCS	Pack size	TCS D	Pack size	Auto-Sep™	Pack size	Auto-Sep™	Pack size
4						0418490	5				
5		041820	50	–		041850	50	–		–	
6		041821	50	041841	50	–		–		–	
7		041822	50	0418421	10	041852	50	041873	25	041878	25
				041842	50						
8		041823	50	041843	50	–		0418745	5	–	
9		041824	50	041844	50	041854	50	–		041879	25
9.5		0418240	50	0418440	50	0418540	50	041871	25	041880	25
								0418715	5	041881	100
10		041825	50	041845	50	041855	50	–		–	
11		041826	50	041846	50	041856	50	041872	25	041882	25
										041883	100
11.5		041827	50	041847	50	–		–		–	
12.5		041828	50	041848	50	–		–		041884	25
15		041829	50	–		–		–		–	
17				0418491	50	–		–		041886	25
Enduro™ Blue											
Shimadzu Plug	041890	50									

Additional Liners: Other Injectors for Agilent Technologies

For information on all other liners, please see the Quick Pick section in this catalog.

Description	ID (mm)	OD (mm)	Length (mm)	Pack Size	Part No.
AC Control Injector					
AC Control Sim Dist Liner for Programmed Injector 1.6		3.0	73	10	092210
				25	092211
Gerstel CIS 4 Injector					
Sintered Glass, Large Volume Injection (LVI)	0.78/1.8	3.0	71	5	092243
					
Single Baffle	1.8	3.0	71	10	092246
					

Additional Liners: ATAS Optic Injectors

Description	ID (mm)	OD (mm)	Length (mm)	Pack Size	Part No.
Split / Splitless FocusLiner™	3.0	5.0	81	5	092272
					
Straight-through Liner	3.0	5.0	81	5	092270
					
Frit & Tapered Liner	3.0	5.0	81	5	092273
					

GC: Consumables: Additional Ferrules

For a full listing of all ferrules by instrument make and model, please see the Quick Pick section in this catalog.

1/16" Fittings (All ferrules are supplied in packs of 10)

Ferrule Style	Hole ID	100% Graphite	15% Graphite 85% Vespel®	100% Vespel
Straight	1/16"	072623	072657	072684
Sealing Ring	1/16"	0726520	072653	–
Reducing	0.2mm	–	0726632	–
	0.3mm	–	072659	–
	0.4mm	–	072663	–
	0.5mm	072627	072654	–
	0.8mm	072626	072655	–
	0.9mm	–	072658	–
	1.0mm	072625	072656	–
Reducing (short)	0.3mm	–	073107	–
	0.4mm	–	073109	–
	0.5mm	072610	073111	–
	0.8mm	072608	073113	–
	1.0mm	072607	–	–
2-Hole	2 x 0.3mm	–	072660	–
	2 x 0.4mm	–	072662	–
	2 x 0.5mm	–	072664	–
	0.5 & 0.3mm	–	0726640	–
	0.4 & 0.3mm	–	0726641	–
	0.5 & 0.4mm	–	0726642	–
3-Hole	3 x 0.4mm	–	072665	–
No-Hole (Blank)	–	–	072661	0726841
No-Hole (Short & Blank)	–	–	073105	–

SilTite™ Metal 1/16"

Description	Pack Contents	Part No.
1/16" SilTite™ Starter Kit	10 Ferrules & 2 Nuts	073203
Replacement 1/16" SilTite™ Ferrules	10 Ferrules	073223
Replacement 1/16" SilTite™ Nuts	5 Nuts	073225

1/8" Fittings (All ferrules are supplied in packs of 10)

Ferrule Style	Hole ID	100% Graphite	15% Graphite 85% Vespel®	100% Vespel
Straight	1/8"	072622	072669	072682
Sealing Ring	1/8"	–	072652	–
Reducing	1/16"	076283	0726701	0726821
	0.4mm	–	0726703	–
	0.5mm	–	0726702	–
	0.8mm	0726270	072671	–
	1.2mm	072628	–	–
	2.4mm	–	0726700	–
	Reducing (short)	1.2mm	072609	–
2-Hole	2 x 0.8mm	–	072674	–
No-Hole (Blank)	–	–	072670	–

GC: Consumables: Additional Ferrules

1/4" Fittings (All ferrules are supplied in packs of 10)

Ferrule Style	Hole ID	100% Graphite	15% Graphite 85% Vespel®	100% Vespel
Straight	1/4"	072621	072667	0726810
Sealing Ring	1/4"	0726003	072651	–
Reducing	0.5mm	–	0726660 (2 Pack)	–
	1/16"	0726282	072673	–
	1/8"	0726281	072668	–
	6.0mm	0726212	0726673	0726812
Reducing (short)	1/8"	0726151	–	–
	5/16"	072617	–	–
	6.0mm	072604	–	–
No-Hole (Blank)	–	–	072666	–

3/8" Fittings (All ferrules are supplied in packs of 10)

Ferrule Style	Hole ID	Part Number
100% Graphite Straight	3/8"	072615

1/2" Fittings (All ferrules are supplied in packs of 10)

Ferrule Style	Hole ID	Part Number
100% Graphite Straight	1/2"	072613

5mm Fittings (All ferrules are supplied in packs of 10)

Ferrule Style	Hole ID	Part Number
100% Graphite Straight	5mm	072605

GC: Consumables: Unions

Mini Unions

For fused silica capillary columns. Glass lined for inertness. Low thermal mass.

Column ID	2nd Column ID	Pack Contents	Part No.
0.05-0.1mm	0.05-0.1mm	1 Union & 5 Ferrules (0.05-0.1mm ID)	103430
0.1-0.25mm	0.1-0.53mm	1 Union & 5 Ferrules (0.1-0.25mm ID)	103431
0.32mm	0.32-0.53mm	1 Union & 5 Ferrules (0.32mm ID)	103432
0.45-0.53mm	0.45-0.53mm	1 Union & 5 Ferrules (0.45-0.53mm ID)	103433
Replacement Mini Union Nuts		5	103400

Ferrules for Mini Unions (Supplied in packs of 10)

Ferrule Style	Column ID	Part Number
100% Graphite	0.32mm	072630
	0.53mm	072629
15% Graphite / 85% Vespel®	0.05-0.1mm	072695
	0.1-0.25mm	072696
	0.32mm	072697
	0.53mm	072698
	1/16" hole	072693
	Blank (No-hole)	072694
SilTite Metal	0.25mm	073470
	0.32mm	073471
	0.53mm	073472
	1/32"	073473

SilTite™ Mini Unions

For fused silica capillary columns. Glass lined for inertness. Low thermal mass.

Column ID	2nd Column ID	Pack Contents	Part No.
0.1-0.25mm	0.1-0.53mm	1 Union, 2 Nuts & 5 Ferrules (0.1-0.25mm ID)	073550
0.32mm	0.32-0.53mm	1 Union, 2 Nuts & 5 Ferrules (0.32mm ID)	073551
0.45-0.53mm	0.45-0.53mm	1 Union, 2 Nuts & 5 Ferrules (0.45-0.53mm ID)	073552
Replacement SilTite Mini Union Nuts¹		5	073553

¹SilTite nuts must be used with SilTite ferrules

Stainless Steel Unions

Description	Tubing Size OD	Part No.
Unions	1/16" x 1/16"	103330
	1/8" x 1/8"	101310
	1/4" x 1/4"	101270
Reducing Unions	1/8" x 1/16"	101290
	1/4" x 1/16"	101230
	1/4" x 1/8"	101250
Union Tees	1/16" x 1/16" x 1/16"	103418
	1/8" x 1/16" x 1/16"	1034180
	1/4" x 1/16" x 1/16"	1034183
	1/8" x 1/8" x 1/16"	1034181
Union Tee (Low hold up union uses male nuts)	1/16" x 1/16" x 1/16"	103442
Union Cross	1/16" x 1/16" x 1/16" x 1/16"	1034187
Replacement 100% Graphite Ferrules	1/16"	072603
	1/8"	072602
	1/4"	072601

All unions are supplied with ferrules ready for connection.

GC: Consumables: Connectors, Nuts

Connectors: 1/16" Male / Female

Material	Tubing OD	Pack Contents	Part No.
Stainless Steel	2 x 1/16"	Union Connector x 1 0.1-0.32mm ID Ferrule x 2	1034604
	3 x 1/16"	Tee Connector x 1 1/16" ID Ferrule x 2	1034605
		0.1-0.32mm ID Ferrule x 2	

All unions are supplied with ferrules ready for connection.

Nuts for SGE Fittings

Material/Description	Size	Pack Size	Part No.
Standard Stainless Steel Nut	1/16" Hole	5	103403
	1/4"	5	103401
	1/8"	5	103402
Brass Nut (Nickel plated)	1/16" Hole	5	103404
Extended Brass Nut (Nickel plated)	1/16" Fittings x 1.2mm Hole	5	103406
Extended Mini Brass Nut (Nickel plated)	1/16" Fittings x 1.2mm Hole	2	1034085
Extended Stainless Steel Nut	1/16" Hole	5	103408
	1/16" Fittings x 1.2mm Hole	5	103405
	1/8"	5	1034050
	1/4" Hole	5	103407
Stainless Steel Mini Union Nut	1.2mm Hole	5	103400
Stainless Steel Male Nut	1/16" Hole	5	1034030
Agilent Column Nuts*	Deep Well	2	1034012
Spanner / Wrench	1/4" x 5/16" AF	1	18500001
	3/16" x 1/4" AF	1	18500002

*Allows use of standard length ferrules



Male to Female Union Connector,
Part No. 1034604



Male to Female Tee Connector,
Part No. 1034605



Manifold consisting of 4 Tee Connectors
from Part No. 1034605

MS: ELECTRON MULTIPLIERS

Visit www.etpsci.com for more information on discrete dynode electron multipliers.

GC-MS & LC-MS

Instrument	Analyzer Type	Technique	Part No.
Agilent Technologies			
5970 (All)	Quadrupole	GC-MS	14511
5971, 5972, GCD	Quadrupole	GC-MS	14516
5973 / 5975 (Initial Installation - includes mount)	Quadrupole	GC-MS	14617
5973/5975 (Replacement multiplier)	Quadrupole	GC-MS	14616
5988 ± ions	Quadrupole	GC-MS & LC-MS	14612
5988 + ions only	Quadrupole	GC-MS & LC-MS	14512
5989 (HED) (Initial Installation - includes mount)	Quadrupole	GC-MS & LC-MS	14627
5989 (HED) (Replacement Multiplier)	Quadrupole	GC-MS & LC-MS	14625
5989 (No HED)	Quadrupole	GC-MS & LC-MS	14613
599x	Quadrupole	GC-MS	14511
LC-MSD (Multiplier, Mount & Feedthrough)	Quadrupole	LC-MS	14639
LC-MSD (Replacement Multiplier)	Quadrupole	LC-MS	14616
Inficon			
Auditor	Quadrupole	GC-MS	14532
JEOL			
AX, HX & SX Series	Magnetic Sector	Multiple	14185
K9 (Multiplier only)	Magnetic Sector	GC-MS	14630
K9 (Multiplier & Mount)	Magnetic Sector	GC-MS	14632
Kratos			
MS25, MS50 & MS80	Magnetic Sector	Multiple	14132
PerkinElmer			
Ion Trap GC-MS	Ion Trap	GC-MS	14138
Q-Mass	Quadrupole	GC-MS	14532
PE-Sciex			
API 2000	Quadrupole	LC-MS	14610
API 300 / 3000 / 4000	Quadrupole	LC-MS	14636
Shimadzu			
QP8000 (Initial Installation - includes mount)	Quadrupole	GC-MS & LC-MS	14627
QP8000 (Replacement multiplier)	Quadrupole	GC-MS & LC-MS	14625
QP5000	Quadrupole	GC-MS	14533
QP5050A (Initial Installation - includes mount)	Quadrupole	GC-MS	14627
QP5050A (Replacement multiplier)	Quadrupole	GC-MS	14625
Thermo Electron			
4000 (PPINICI)	Quadrupole	GC-MS	14139
Bench-top ion pre-GCQ	Ion Trap	GC-MS	14138
Varian			
Saturn (Pre-2000)	Ion Trap	GC-MS	14138
Saturn 2000, 2100 & 2200	Ion Trap	GC-MS	14147

MAGNETIC SECTOR

Instrument	Analyzer Type	Part No.
Cameca		
SIMS 3F & 4F	SIMS	14133
SIMS 5F & 6F	SIMS	14133H
JEOL		
AX & SX Series	Multiple	14185
Kratos		
MS25, MS50 & MS80	Multiple	14132
VG Analytical		
ZAB, 7070 Series	Magnetic Sector	Multiple