

SYRINGES

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What's
NEW?
look for this
circle



Syringe Basics

Needle Gauge Chart

Gauge	Nominal OD		Nominal ID	
26s	0.019 in.	0.47 mm	0.0050 in.	0.13 mm
26	0.018 in.	0.46 mm	0.0102 in.	0.26 mm
25	0.021 in.	0.51 mm	0.0102 in.	0.26 mm
23s	0.025 in.	0.64 mm	0.0060 in.	0.15 mm
23	0.025 in.	0.64 mm	0.0132 in.	0.34 mm
22s	0.028 in.	0.72 mm	0.0060 in.	0.15 mm
22	0.028 in.	0.72 mm	0.0162 in.	0.41 mm

s (after gauge) = smaller ID with thicker walls

Needle Point Style

Restek offers several different point styles on syringe and needle products. Choose one based on your application.



Point Style 2, BV: beveled needle tip. Recommended for optimum septum penetration and prevention of septum coring.



Point Style 3, LC: square/blunt needle tip. For use with HPLC injection valves and for sample pipetting.



Point Style 5, S/Hole, Bevel: conical needle with side hole. Liquid samples are filled and dispensed through the side hole.



Point Style H, Dome: domed needle tip with side hole. Liquid samples are filled and dispensed through the side hole. The solid tip minimizes septum damage.



Point Style Agilent, Cone, AS: special conical style needle point used exclusively on syringes for autosamplers.

did you know?

Syringes and needles manufactured by Hamilton Company and SGE are intended for scientific research and laboratory use only and are not intended for human *in vivo* use.

also available

We can supply many additional sizes. Call us if you don't see exactly what you need.

Guide to Needle Termination Codes

Hamilton:

- (N) Cemented Needle
- (RN) Removable Needle
- (ASN) Autosampler Cemented Needle
- (ASRN) Autosampler Removable Needle
- (TLL) Teflon® Luer Lock
- (KH) Knurled Hub
- (LT) Luer Tip
- (LTN) Luer Tip Cemented Needle

SGE:

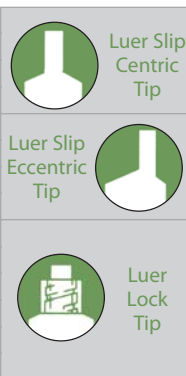
- (F) Fixed Needle
- (R) Removable Needle
- (LL) Luer Lock
- (LT) Luer Tip

NORM-JECT® Plastic Syringes

NORM-JECT® syringes are latex-free, contain no rubber, no silicone oil, styrene or DEHP and are DNA-free. These syringes are the choice for any situation needing an inert, nonreactive syringe. Because of their composition, they are ideal for chromatography and many other laboratory procedures. They are more chemically resistant than rubber-tipped syringes and are manufactured from only laboratory grade polypropylene and polyethylene. These unique plastic syringes have a positive safety stop to prevent accidental spills. NORM-JECT® syringes are individually sterile strip packed.



Description	qty.	cat.#
1mL Luer Slip Tuberculin ¹	100-pk.	22766
3mL Luer Slip Centric Tip	100-pk.	22767
5mL Luer Slip Centric Tip ²	100-pk.	22768
10mL Luer Slip Eccentric Tip ²	100-pk.	22769
20mL Luer Slip Eccentric Tip ²	100-pk.	22770
30mL Luer Slip Eccentric Tip	50-pk.	22771
50mL Luer Slip Eccentric Tip ²	30-pk.	22772
3mL Luer Lock Tip	100-pk.	22773
5mL Luer Lock Tip ²	100-pk.	22774
10mL Luer Lock Tip ²	100-pk.	22775
20mL Luer Lock Tip ²	100-pk.	22776
30mL Luer Lock Tip	50-pk.	22777
50mL Luer Lock Tip ²	30-pk.	22778



Great for use with Restek syringe filters! See page 399.

Barrel - Polypropylene

Plunger - Polyethylene



¹Dose saver design with low dead space plug on the piston to minimize waste.

²The 5mL has graduations to 6mL, 10mL has graduations to 12mL, 20mL has graduations to 24mL and 50mL has graduations to 60mL.

NOTE: Plastic syringes are for laboratory use only.



20167

24793

Standard Microliter Syringes for Agilent 7673, 7683, and 6850 Autosamplers

- Hamilton and SGE syringes are designed and tested to meet critical autosampler performance needs.
- Needle point styles are designed to withstand multiple, rapid injections through a septum.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton		Restek
					Model	cat.#	
0.5µL	ASRN	23s	1.71"	Agilent	7000.5	86276	ea. 24895
0.5µL	ASRN	26s	1.71"	Agilent	7000.5	86274	ea. 21221
5µL	ASRN	23s	1.71"	Agilent	75	87957	ea. 20172
5µL	ASN	23s	1.71"	Agilent	75	87987	ea. 20168
5µL	ASN	23s	1.71"	Agilent	75	87990	6-pk. 20170
5µL	ASN	26s	1.71"	Agilent	75	87988	ea. 24592
5µL	ASN	26s	1.71"	Agilent	75	87989	6-pk. 21230
5µL	ASRN	23s-26s	1.71"	Agilent	75	87959	ea. 21223
5µL	ASN	23s-26s	1.71"	Agilent	75	87993	ea. 24593
5µL	ASN	23s-26s	1.71"	Agilent	75	87994	6-pk. 24594
10µL	ASRN	23s	1.71"	Agilent	701	80357	ea. 20171
10µL	ASN	23s	1.71"	Agilent	701	80387	ea. 20167
10µL	ASN	23s	1.71"	Agilent	701	80390	6-pk. 20169
10µL	ASRN	26s	1.71"	Agilent	701	80358	ea. 24597
10µL	ASN	26s	1.71"	Agilent	701	80388	ea. 24595
10µL	ASN	26s	1.71"	Agilent	701	80389	6-pk. 24599
10µL	ASRN	23s-26s	1.71"	Agilent	701	80359	ea. 24598
10µL	ASN	23s-26s	1.71"	Agilent	701	80393	ea. 24596
10µL	ASN	23s-26s	1.71"	Agilent	701	80391	6-pk. 24600

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE		Restek
					Model	cat.#	
0.5µL	R	23	42mm	Cone	0.5BR-HP-0.63	000410	ea. 24791
0.5µL	R	26	42mm	Cone	0.5BR-HP-0.47	000400	ea. 24790
5µL	R	23	42mm	Cone	5R-HP-0.63	001815	ea. 24793
5µL	F	23	42mm	Cone	5F-HP-0.63	001810	ea. 24781
5µL	F	23	42mm	Cone	SK-5F-HP-0.63	001814	6-pk. 24783
5µL	F	26	42mm	Cone	5F-HP-0.47	001800	ea. 24780
5µL	F	26	42mm	Cone	SK-5F-HP-0.47	001804	6-pk. 24782
5µL	R	23-26s	42mm	Cone	5R-HP-0.63/0.47	001825	ea. 21211
5µL	F	23-26s	42mm	Cone	5F-HP-0.63/0.47	001821	ea. 21210
5µL	F	23-26s	42mm	Cone	SK-5F-HP-0.63/0.47	001822	6-pk. 21214
10µL	R	23	42mm	Cone	10R-HP-0.63	002815	ea. 24795
10µL	F	23	42mm	Cone	10F-HP-0.63	002810	ea. 24785
10µL	F	23	42mm	Cone	SK-10F-HP-0.63	002814	6-pk. 24787
10µL	R	26	42mm	Cone	10R-HP-0.47	002805	ea. 24794
10µL	F	26	42mm	Cone	10F-HP-0.47	002800	ea. 24784
10µL	F	26	42mm	Cone	SK-10F-HP-0.47	002804	6-pk. 24786
10µL	R	23-26s	42mm	Cone	10R-HP-0.63/0.47	002825	ea. 21213
10µL	F	23-26s	42mm	Cone	10F-HP-0.63/0.47	002821	ea. 21212
10µL	F	23-26s	42mm	Cone	SK-10F-HP-0.63/0.47	002822	6-pk. 21215

Guide to Needle Termination Codes

Hamilton:

- (N) Cemented Needle
- (RN) Removable Needle
- (ASN) Autosampler Cemented Needle
- (ASRN) Autosampler Removable Needle
- (TLL) Teflon® Luer Lock
- (KH) Knurled Hub
- (LT) Luer Tip
- (LTN) Luer Tip Cemented Needle

SGE:

- (F) Fixed Needle
- (R) Removable Needle
- (LL) Luer Lock
- (LT) Luer Tip



also available

Looking for Restek Genuine Replacement Parts for Agilent Instruments?
See pages 216-243.

Gas-Tight Teflon®-Tipped Syringes for Agilent 7673, 7683, and 6850 Autosamplers

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton		Restek	
					Model	cat.#	qty.	cat.#
10µL	ASN	23s	1.71"	Agilent	1701	80080	ea.	24894
10µL	ASRN	23s	1.71"	Agilent	1701	80087	ea.	21224
10µL	ASRN	26s	1.71"	Agilent	1701	80088	ea.	21228
10µL	ASRN	23s-26s	1.71"	Agilent	1701	80089	ea.	21229

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE		Restek	
					Model	cat.#	qty.	cat.#
10µL	F	23	42mm	Cone	10F-HP-GT-0.63	002812	ea.	24789
10µL	R	23	42mm	Cone	10R-HP-GT-0.63	002818	ea.	24797
10µL	R	23-26	42mm	Cone	10R-HP-GT-0.63/0.47	002829	ea.	21220

Large Volume Syringes for Agilent 7673, 7683, and 6850 Autosamplers

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE		Restek	
					Model	cat.#	qty.	cat.#
25µL	R	23	42mm	Cone	25R-HP-0.63	003665	ea.	24798
50µL	R	23	42mm	Cone	50R-HP-0.63	004665	ea.	24799
100µL	R	23	42mm	Cone	100R-HP-0.63	005665	ea.	24800
250µL	R	23	42mm	Cone	250R-HP-0.63	006665	ea.	24801

Replacement Needles for Agilent 7673, 7683, and 6850 Autosampler Syringes

Hamilton

Syringe Volume	Needle Gauge	Needle Length	Point Style	Hamilton		Restek	
				cat.#	qty.	cat.#	qty.
5-10µL	23s	1.71"	Agilent	7786-01	6-pk.	20164	
5-10µL	26s	1.71"	Agilent	7786-02	6-pk.	20165	
5-10µL	23s-26s	1.71"	Agilent	7785-01	6-pk.	20166	

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE		Restek	
				cat.#	qty.	cat.#	qty.
0.5µL	23	42mm	Cone	033715	ea.	24821	
0.5µL	26	42mm	Cone	033708	ea.	24820	
5µL	23	42mm	Cone	036720	2-pk.	24823	
10µL	23	42mm	Cone	037717	2-pk.	24825	
10µL	26	42mm	Cone	037715	2-pk.	24824	
25-250µL	23	42mm	Cone	038717	2-pk.	24826	

Do not reuse TFE washers.



24894

also **available**

Looking for an Agilent Syringe Cross-Reference?
See page 372.





Replacement Plunger Assembly, Teflon®-Tipped for Agilent 7673, 7683, and 6850 Autosampler Syringes Teflon®-Tipped

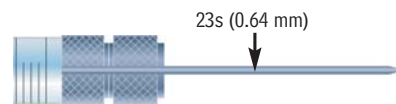
SGE

Syringe Volume	Needle Term.	SGE cat.#	qty.	Restek cat.#
10µL	F	031808	2-pk.	21218
10µL	R	031809	2-pk.	21284

Needle Gauge for Agilent 7673, 7683, 6850 Syringes

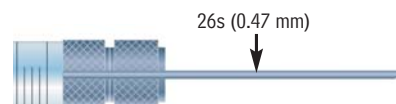
Single Gauge Needle (23s)

- The most popular gauge for Agilent 7673.
- Best for Merlin Microseal septum and standard septum-equipped GCs.
- Packed column injection ports.
- Split/splitless injection ports.



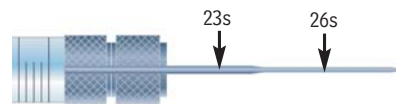
Single Gauge Needle (26s)

- On-column injection ports.
- Split/splitless injection ports.



23s-26s—Dual Gauge (tapered)

- Durability of a 23s gauge needle.
- Ability of a 26s gauge needle to perform split/splitless and on-column injections.



Cross-reference

For Agilent Syringes

Listed below are some Hamilton and SGE syringes, cross-referenced to Agilent part numbers for your convenience. For further information or questions, contact your Restek sales representative or technical service.

Similar to Agilent Part #	Restek Part #	Description	Page
5181-1267	21212, 24596	10µL Standard Syringe, Fixed Needle, 23-26 Gauge	370
5181-1273	21210, 24593	5µL Standard Syringe, Fixed Needle, 23-26 Gauge	370
5181-3319	20166	Needle for 10µL Standard Syringe, 23-26 Gauge	371
5181-3321	21213, 24598	10µL Standard Syringe, Removable Needle, 23-26 Gauge	370
5181-3356	21218	Replacement Teflon-Tipped Plunger for 10µL Fixed Needle Syringe	372
5181-3358	24919	Teflon-Tipped Plunger for 10µL Standard Syringe, Removable Needle	382
5181-3360	21215, 24600	10µL Standard Syringe, Fixed Needle, 23-26 Gauge (6-pk.)	370
5181-3365	21218	Teflon-Tipped Plunger for 10µL Standard Syringe, Fixed Needle	372
5181-8809	24894, 24789	10µL Gas-tight Syringe, Fixed Needle, 23 Gauge	371
5181-8811	20164, 24825	Needle for 10µL Gas-tight Syringe, 23 Gauge	371
5181-8813	21224, 24797	10µL Gas-tight Syringe, Removable Needle, 23 Gauge	371
5182-0830	24821	Needle for 0.5µL Standard Syringe, 23 Gauge	371
5182-0832	20166	Needle for 5-10µL Autosampler Syringe, 23-26 Gauge	371
5182-0834	20172, 24793	5µL Standard Syringe, Removable Needle, 23 Gauge	370
5182-0835	21223, 21211	5µL Standard Syringe, Removable Needle, 23-26 Gauge	370
5182-0875	20170, 24783	5µL Standard Syringe, Fixed Needle, 23 Gauge (6-pk.)	370
9301-0713	20167, 24785	10µL Standard Syringe, Fixed Needle, 23 Gauge	370
9301-0714	24595, 24784	10µL Standard Syringe, Fixed Needle, 26 Gauge	370
9301-0725	20169, 24787	10µL Standard Syringe, Fixed Needle, 23 Gauge (6-pk.)	370
9301-0891	24592, 24780	5µL Standard Syringe, Fixed Needle, 26 Gauge	370
9301-0892	20168, 24781	5µL Standard Syringe, Fixed Needle, 23 Gauge	370

Autosampler Syringes for PerkinElmer Autosystem and Clarus 500 GCs

- Hamilton and SGE syringes are designed and tested to meet critical autosampler performance needs.
- Needle point styles are designed to withstand multiple, rapid injections through a septum.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton Model	Hamilton cat.#	qty.	Restek cat.#
5µL	ASN	23	2.756"	3	75ASN/PE	88035	ea.	24953
5µL	ASN	26	2.756"	3	75ASN/PE	88040	ea.	24952

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	qty.	Restek cat.#
0.5µL	R	23	70mm	Cone	0.5BR-PE-0.63	000478	ea.	24811
0.5µL	R	26	70mm	Cone	0.5BR-PE-0.47	000475	ea.	24810
5µL	F	23	70mm	Cone	5F-PE-0.63	001954	ea.	24813
5µL*	F	23	70mm	Cone	5F-PE-GT-0.63	001957	ea.	24815
5µL	F	26	70mm	Cone	5F-PE-0.47	001953	ea.	24812
5µL*	F	26	70mm	Cone	5F-PE-GT-0.47	001955	ea.	24814
50µL	F	23	70mm	Cone	50F-PE-0.63	004670	ea.	24816

*Gas-tight.

Replacement Needle and Plunger Kit for PerkinElmer Autosampler Syringes

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE cat.#	qty.	Restek cat.#
0.5µL	23	70mm	Cone	033765	kit	24818
0.5µL	26	70mm	Cone	033750	kit	24817



also available

Looking for Restek Genuine Replacement Parts for PerkinElmer Instruments?
See pages 245-248.

Guide to Needle Termination Codes

Hamilton:

- (N) Cemented Needle
- (RN) Removable Needle
- (ASN) Autosampler Cemented Needle
- (ASRN) Autosampler Removable Needle
- (TLL) Teflon® Luer Lock
- (KH) Knurled Hub
- (LT) Luer Tip
- (LTN) Luer Tip Cemented Needle

SGE:

- (F) Fixed Needle
- (R) Removable Needle
- (LL) Luer Lock
- (LT) Luer Tip

also available

Looking for HPLC syringes?

See pages 346-349.





Autosampler Syringes for Varian 8000 Series GCs

- Hamilton and SGE syringes are designed and tested to meet critical autosampler performance needs.
- Needle point styles are designed to withstand multiple, rapid injections through a septum.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton Model	Hamilton cat.#	Restek qty.	Restek cat.#
Varian 8100/8200 Syringes								
10µL	RN	26s	1.99"	5	701 Varian	202880	ea.	24956

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	Restek qty.	Restek cat.#
Varian 8000 Syringes								
10µL	R	25	50mm	Dome	10R-VA80-II	002926	ea.	24850
Varian 8035, 8100, & 8200 Syringes								
10µL*	F	25	53mm	S/Hole	10F-VA8X-11	002923	ea.	24851
10µL*	R	25	53mm	S/Hole	10R-VA8X-II	002924	ea.	24852
100µL	R	25	53mm	S/Hole	100R-VA8X	005921	ea.	24853

Varian CP 8400, CP8410 Syringes

10µL	F	26	50mm	Cone	10F-C/F-5/0.47C	002980	ea.	24922
10µL	F	26	50mm	Bevel	10F-VA8400-5/0.47	002950	ea.	21202

*Gas-tight syringe.

Guide to Needle Termination Codes

Hamilton:

- (N) Cemented Needle
- (RN) Removable Needle
- (ASN) Autosampler Cemented Needle
- (ASRN) Autosampler Removable Needle
- (TLL) Teflon® Luer Lock
- (KH) Knurled Hub
- (LT) Luer Tip
- (LTN) Luer Tip Cemented Needle

SGE:

- (F) Fixed Needle
- (R) Removable Needle
- (LL) Luer Lock
- (LT) Luer Tip



Replacement Needles for Varian 8000 Series Autosampler Syringes

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE cat.#	Restek qty.	Restek cat.#
10µL	23	53mm	S/Hole	037779	2-pk.	24857
10µL*	25	53mm	S/Hole	037780	ea.	24858
10µL**	25	53mm	S/Hole	037777	ea.	24854
10µL	25	53mm	2	037776	2-pk.	24855

*straight needle shaft, 0.20mm ID needle, for use with viscous samples

**tapered needle shaft, 0.12mm ID needle



also **available**

Looking for Restek Genuine Replacement Parts for Varian Instruments?
See pages 259-264.

Autosampler Syringes for Shimadzu GCs

- Hamilton and SGE syringes are designed and tested to meet critical autosampler performance needs.
- Needle point styles are designed to withstand multiple, rapid injections through a septum.

Hamilton

for Shimadzu AOC 9 GCs

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton		qty.	Restek cat.#
					Model	cat.#		
5µL	RN	26s	2"/51mm	2	75RN	87930	ea.	24617
5µL	N	26s	2"/51mm	2	75N	87900	ea.	24938
10µL	RN	26s	2"/51mm	2	701RN	80330	ea.	24530

SGE

for Shimadzu AOC 14, 17, 20, and 20i GCs

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE		qty.	Restek cat.#
					Model	cat.#		
0.5µL	R	23	42mm	Cone	0.5BR-S-0.63	000445	ea.	24841
0.5µL	R	26	42mm	Cone	0.5BR-S-0.47	000440	ea.	24840
5µL	F	23	42mm	Cone	5F-S-0.63	001988	ea.	24843
5µL	F	26	42mm	Cone	5F-S-0.47	001987	ea.	24842
10µL	R	23	42mm	Cone	10R-S-0.63	002898	ea.	24845
10µL*	R	23	42mm	Cone	10R-S-GT-0.63	002902	ea.	24846
10µL	R	26	42mm	Cone	10R-S-0.47	002897	ea.	24844
250µL*	F	23	42mm	Cone	250F-S-GT-0.63	006682	ea.	24847

*Gas-tight syringe.



Replacement Needles for Shimadzu Autosampler Syringes

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE cat.#	qty.	Restek cat.#
0.5µL	23	42mm	Cone	033745	ea.	24747
0.5µL	26	42mm	Cone	033738	ea.	24746
10µL	23	42mm	Cone	037747	2-pk.	24749
10µL	26	42mm	Cone	037745	2-pk.	24748



Syringe Termination Types

From cemented to removable needles and from Teflon® luer-lock to special syringe fittings, syringe barrel terminations create the interface between a syringe and its mating connection. For your reference, we describe the most common Hamilton/SGE terminations below.



N, Cemented Needle / F, Fixed:

Needle cemented into the glass syringe barrel at a point corresponding to the zero graduation mark. Not autoclavable.



KH, Knurled Hub / R, Removable:

Used on 7000 Series Hamilton syringes, exclusively. Knurled hub enables 6,000 psig maximum injection pressures and the attachment of a spacer for repeatable-depth injections. Autoclavable when disassembled.



RN, Removable Needle / R, Removable:

Needle seats precisely to the zero graduation mark of the syringe. Allows the use of different specification needles on the same syringe barrel. Autoclavable when disassembled.



TLL, Teflon® Luer-Lock / LL, Luer Lock / LT, Luer Tip:

Male luer taper with nickel-plated brass hub accepts and locks into place luer hub needles and connectors. Autoclavable when disassembled.



also available

Looking for Restek Genuine Replacement Parts for Shimadzu Instruments?

See pages 249-252.



Autosampler Syringes for Thermo Scientific GCs

- Hamilton and SGE syringes are designed and tested to meet critical autosampler performance needs.
- Needle point styles are designed to withstand multiple, rapid injections through a septum.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton Model	Hamilton cat.#	Restek qty.	Restek cat.#
10µL	N	26s	3.15"	AS	701SN	80318	ea.	24962

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	Restek qty.	Restek cat.#
10µL	F	26	80mm	Cone	10F-C/F-8/0.47C	002992	ea.	24924
10µL	R	26	80mm	Cone	10R-C/F-8/0-0.47C	002993	ea.	24934



Replacement Needles for Thermo Scientific Autosampler Syringes

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE cat.#	Restek qty.	Restek cat.#
0.5µL	26	50mm	Cone	033770	ea.	24927
10µL	26	80mm	Cone	031535	3-pk.	24935



also available

Looking for Restek Genuine Replacement Parts for Thermo Scientific Instruments?
See pages 253-258.

Guide to Needle Termination Codes

Hamilton:

- (N) Cemented Needle
- (RN) Removable Needle
- (ASN) Autosampler Cemented Needle
- (ASRN) Autosampler Removable Needle
- (TLL) Teflon® Luer Lock
- (KH) Knurled Hub
- (LT) Luer Tip
- (LTN) Luer Tip Cemented Needle

SGE:

- (F) Fixed Needle
- (R) Removable Needle
- (LL) Luer Lock
- (LT) Luer Tip

instrument reference

Autosampler Syringes for Thermo Scientific GCs

Autosampler syringes for TriPlus, AS3000, AS2000, AS200/800 GCs. The following autosamplers are compatible with the respective SGE and Hamilton syringes. For further information or questions, contact your Restek sales representative or technical service.

SGE Syringes

TriPlus	AS3000	AS2000	AS200/800	Restek cat.#	Page
•	•			24928	377
•	•			24926	377
•	•	•	•	24923	377
•	•	•	•	24932	377
•	•	•	•	24924	376
•	•	•	•	24934	376
•	•	•	•	24922	377
•	•	•	•	24930	377

Replacement Needles for SGE Syringes for Thermo Scientific GCs

TriPlus	AS3000	AS2000	AS200/800	Restek cat.#	Page
•	•			24929	377
•	•			24927	376
•	•	•	•	24933	377
•	•	•	•	24931	377
•	•	•	•	24935	376

Hamilton Syringes

TriPlus	AS3000	AS2000	AS200/800	Restek cat.#	Page
			•	24962	376

Autosampler Syringes for CTC GCs

- Hamilton and SGE syringes are designed and tested to meet critical autosampler performance needs.
- Needle point styles are designed to withstand multiple, rapid injections through a septum.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton Model	Hamilton cat.#	qty.	Restek cat.#
1.2µL	N	26	2"/51mm	AS	7701.2N	203185	ea.	22755
5µL	N	26s	2"/51mm	AS	75N	203189	ea.	22756
10µL	N	23s	2"/51mm	AS	701N	203361	ea.	22757
10µL	N	23s-26s	2"/51mm	AS	701N	203362	ea.	22758
10µL	N	23s	2"/51mm	2	701N	203363	ea.	22759
10µL	N	26s	2"/51mm	2	701N Slim Line	203072	ea.	22760
10µL	N	26s	2"/51mm	AS	701N	203205	ea.	22761
10µL	N	26s	2"/51mm	2	701N	203269	6-pk.	22762
25µL*	N	26s	2"/51mm	AS	1702N	203043	ea.	22763
25µL*	N	26s	2"/51mm	AS	1702N Slim Line**	203074	ea.	22764
100µL*	N	26s	2"/51mm	AS	1710N Slim Line**	203076	ea.	22765

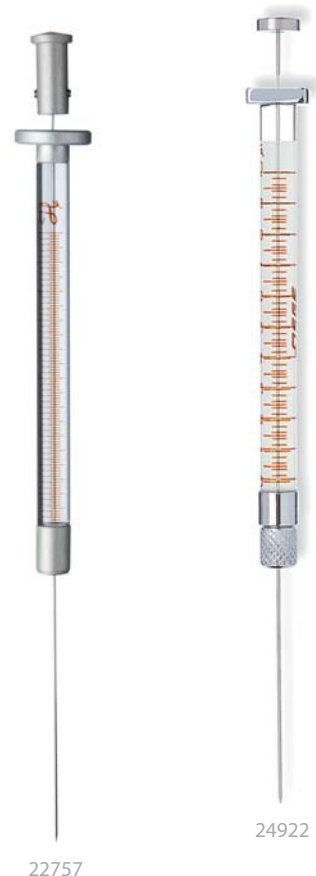
*Gas-tight syringe.

**Barrel OD = 6.7mm; all other 25µL and 100µL syringes have a 7.9mm barrel OD.

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	qty.	Restek cat.#
0.5µL	R	23	50mm	Cone	0.5BNR-C/F-0.63	000492	ea.	24928
0.5µL	R	26	50mm	Cone	0.5BNR-C/F-0.47	000490	ea.	24926
5µL	F	23	50mm	Cone	5F-C/F-5/0.63	001981	ea.	24921
5µL	F	26	50mm	Cone	5F-C/F-5/0.47	001982	ea.	24920
10µL	F	23	50mm	Cone	10F-C/F-0.63	002981	ea.	24923
10µL	R	23	50mm	Cone	10R-C/F-0.63	002984	ea.	24932
10µL	F	26	50mm	Cone	10F-C/F-5/0.47C	002980	ea.	24922
10µL	F	26	50mm	Cone	SK10F-C/F-5/0.47C	002986	6-pk.	24925
10µL	R	26	50mm	Cone	10R-C/F-5/0-0.47C	002982	ea.	24930
10µL*	F	23	50mm	Cone	10F-C/T-GT-5/0.63C	002987	ea.	22749
25µL	F	26	50mm	Cone	25F-C/T-5/0.47C	003980	ea.	22750
25µL*	F	23	50mm	Cone	25F-C/T-GT-5/0.63C	003987	ea.	22751
100µL*	F	23	50mm	Cone	100F-C/T-GT-5/0.63C	005335	ea.	22753
100µL*	R	26	50mm	Cone	100R-C/T-GT-5/0.47C	005333	ea.	22754

*Gas-tight syringe.



also available

Replacement plunger assemblies for some of these syringes are available on request.



Replacement Needles for CTC Autosampler Syringes

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE cat.#	qty.	Restek cat.#
0.5µL	23	50mm	Cone	033772	ea.	24929
10µL	23	50mm	Cone	037787	2-pk.	24933
10µL	26	50mm	Cone	037785	2-pk.	24931



Hamilton 700 Series Manual
 Microliter Syringes

24532



SGE Standard Manual
 Microliter Syringes



24703

Manual Microliter Syringes

- Economical.
- Available with cemented needles (N/F) or removable needles (RN/R).
- Each syringe plunger and barrel assembly is manufactured as one working unit; components are not interchangeable or individually replaceable.

Hamilton 700 Series

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton Model	Hamilton cat.#	Restek qty.	Restek cat.#
5µL	N	26s	2"/51mm	2	75N	87900	ea.	24938
5µL	RN	26s	2"/51mm	2	75RN	87930	ea.	24617
10µL	N	26s	2"/51mm	2	701N	80300	ea.	20174
10µL	N	26s	2"/51mm	2	701N	80366	6-pk.	20175
10µL	RN	26s	2"/51mm	2	701RN	80330	ea.	24530
25µL	N	22s	2"/51mm	2	702N	80400	ea.	24531
10µL	N	26s	2"/51mm	5	701NPT5	80339	ea.	24967
25µL*	RN	22s	2"/51mm	2	702RN	80430	ea.	24532
50µL	N	22s	2"/51mm	2	705N	80500	ea.	24533
50µL*	RN	22s	2"/51mm	2	705RN	80530	ea.	24534
100µL	N	22s	2"/51mm	2	710N	80600	ea.	24535
100µL*	RN	22s	2"/51mm	2	710RN	80630	ea.	24536
250µL	N	22s	2"/51mm	2	725N	80700	ea.	24537
250µL*	RN	22s	2"/51mm	2	725RN	80730	ea.	24538
500µL	N	22	2"/51mm	2	750N	80800	ea.	24539
500µL*	RN	22	2"/51mm	2	750RN	80830	ea.	24540

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	Restek qty.	Restek cat.#
5µL	F	26	50mm	2	5F**	001000	ea.	24700
5µL*	R	26	50mm	2	5R**	001050	ea.	24701
10µL	F	26	50mm	2	10F**	002000	ea.	24702
10µL	F	26	50mm	2	SK-10F**	002030	6-pk.	24715
10µL*	R	26	50mm	2	10R**	002050	ea.	24703
10µL*	R	26	50mm	2	SK-10R**	002080	6-pk.	24716
25µL	F	25	50mm	2	25F	003000	ea.	24704
25µL*	R	25	50mm	2	25R	003050	ea.	24705
50µL	F	25	50mm	2	50F	004000	ea.	24706
50µL*	R	25	50mm	2	50R	004050	ea.	24707
100µL	F	25	50mm	2	100F	005000	ea.	24708
100µL*	R	25	50mm	2	100R	005050	ea.	24709
250µL	F	25	50mm	2	250F	006000	ea.	24710
250µL*	R	25	50mm	2	250R	006050	ea.	24711
500µL	F	25	50mm	2	500F	007000	ea.	24712
500µL*	R	25	50mm	2	500R	007050	ea.	24713

*Replacement RN/R needles available. See page 382.

**With plunger protection.



Restek's Learning Network

Sign up for our widely acclaimed seminars today!

Visit www.restek.com/seminars

Superflex Flexible Plunger Microliter Syringes

- The Superflex syringe features a super-elastic plunger that returns to its original shape if twisted or bent.

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE			Restek cat.#
					Model	cat.#	qty.	
5µL	F	26	50mm	2	5FX	001100	ea.	24720
5µL	R	26	50mm	2	5RX	001150	ea.	24721
10µL	F	26	50mm	2	10FX	002100	ea.	24722
10µL	F	26	50mm	2	SK-10FX	002130	6-pk.	24718
10µL	R	26	50mm	2	10RX	002150	ea.	24723
10µL*	R	26	50mm	2	SK-10RX	002180	6-pk.	24719



Reinforced Plunger Microliter Syringes

- Reinforcing extends the life of fragile, small diameter plungers.
- Economical because of longer life—even in rugged applications.
- Hand-lapped plunger ensures a perfect seal with the barrel.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton		Restek cat.#	
					Model	cat.#		
5µL	N	26s	2"/51mm	2	95	87920	ea.	24541
5µL*	RN	26s	2"/51mm	2	95	87925	ea.	24542
10µL	N	26s	2"/51mm	2	901	80360	ea.	24543
10µL*	RN	26s	2"/51mm	2	901	80370	ea.	24544

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE			Restek cat.#
					Model	cat.#	qty.	
5µL	F	26	50mm	2	5F-GP	001400	ea.	24769
5µL*	R	26	50mm	2	5R-GP	001450	ea.	24766
10µL	F	26	50mm	2	10F-GP	002400	ea.	24767
10µL*	R	26	50mm	2	10R-GP	002450	ea.	24768

*Replacement RN/R needles available. See page 382.

Restek carries a full line of headspace essentials



including screw-thread headspace vials & magnetic screw-thread caps, Hot Swap column nuts, 1mm liners, septa, and more!



For more products and tech tips, visit www.restek.com/usp467

Guide to Needle Termination Codes

Hamilton:

- (N) Cemented Needle
- (RN) Removable Needle
- (ASN) Autosampler Cemented Needle
- (ASRN) Autosampler Removable Needle
- (TLL) Teflon® Luer Lock
- (KH) Knurled Hub
- (LT) Luer Tip
- (LTN) Luer Tip Cemented Needle

SGE:

- (F) Fixed Needle
- (R) Removable Needle
- (LL) Luer Lock
- (LT) Luer Tip



Micro-Volume, Positive Displacement Syringes

- Sample is contained in the needle with full plunger displacement, ensuring no dead volume.
- High precision and accuracy down to 0.1 μL .
- Seal between the plunger and the needle can be tightened for high-pressure injection.
- Replaceable needle/plunger kits and barrels (available on request).

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton Model	Hamilton cat.#	qty.	Restek cat.#
0.5 μL	KH	25	2.75"/70mm	2	7000.5	86259	ea.	24545
0.5 μL	KH	25	2.75"/70mm	3	7000.5	86250	ea.	24546
1.0 μL	KH	22s	2.75"/70mm	2	7101	86211	ea.	24549
1.0 μL	KH	25s	2.75"/70mm	2	7001	80135	ea.	24547
1.0 μL	KH	25s	2.75"/70mm	3	7001	80100	ea.	24548
2.0 μL	KH	25	2.75"/70mm	2	7002	88411	ea.	24551
5.0 μL	KH	24	2.75"/70mm	2	7105	88011	ea.	24555
5.0 μL	KH	24	2.75"/70mm	3	7105	88000	ea.	24556

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	qty.	Restek cat.#
0.5 μL	R	23	70mm	2	0.5BR-7BV	000311	ea.	24771
0.5 μL	R	23	70mm	Cone	0.5BR-7	000310	ea.	24772
0.5 μL	R	26	70mm	Cone	0.5BR-OC-7/0.47*	000376	ea.	24770
1.0 μL	R	23	70mm	2	1BR-7BV	000506	ea.	24775
1.0 μL	R	23	70mm	Cone	1BR-7	000505	ea.	24774
1.0 μL	R	23	50mm	Cone	1BR-5	000500	ea.	24773
1.0 μL	R	26	70mm	Cone	1BR-7/0.47*	000570	ea.	24776
5.0 μL	R	23	70mm	2	5BR-7BV	000803	ea.	24779
5.0 μL	R	23	70mm	Cone	5BR-7	000802	ea.	24778
5.0 μL	R	23	50mm	Cone	5BR-5	000800	ea.	24777

*70mm needle length, 0.47mm OD, on-column syringe.

Replacement Plunger-in-Needle Kits

- Kits are supplied with both a plunger and a needle.
- Plunger and needle must be replaced together.

SGE

Volume	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	For Syringe cat.#	Restek qty.	Restek cat.#
0.5 μL	23	70mm	2	NP0.5B-7BV	033060	24771	kit	24831
0.5 μL	23	70mm	Cone	NP0.5B-7C	033057	24772	kit	24830
0.5 μL	26	70mm	Cone	NP0.5B-OC-7	033630	24770	kit	24832
1.0 μL	23	70mm	2	NP1B-7BV	034060	24775	kit	24835
1.0 μL	23	70mm	Cone	NP1B-7C	034057	24774	kit	24834
1.0 μL	23	50mm	Cone	NP1B-5C	034055	24773	kit	24833
1.0 μL	26	70mm	Cone	NP1B-OC-7/0.47	034610	24776	kit	24836
5.0 μL	23	70mm	2	NP5B-7BV	035058	24779	kit	24839
5.0 μL	23	70mm	Cone	NP5B-7C	035057	24778	kit	24838
5.0 μL	23	50mm	Cone	NP5B-5C	035055	24777	kit	24837

tech tip

Reinserting Teflon[®]-tipped Plungers

After disassembling and cleaning a syringe with a Teflon[®]-tipped plunger, wet the Teflon[®] plunger tip prior to reinserting it into the barrel. Always avoid touching the plunger—any abrasions, scratches, or oil from fingers could interfere with proper plunger operation.

Teflon® Tip, Gas-Tight Syringes

- Suitable for gases or liquids, for maximum inertness.
- High accuracy of dispensed volumes.
- Interchangeable barrels, plungers, and tips extend performance and increase cost-effectiveness.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton		qty.	Restek cat.#
					Model	cat.#		
10µL	N	26s	2"/51mm	2	1701	80000	ea.	24557
10µL	RN	26s	2"/51mm	2	1701	80030	ea.	24558
25µL	N	22s	2"/51mm	2	1702	80200	ea.	24559
25µL	RN	22s	2"/51mm	2	1702	80230	ea.	24560
50µL	N	22s	2"/51mm	2	1705	80900	ea.	24561
50µL	RN	22s	2"/51mm	2	1705	80930	ea.	24562
100µL	N	22s	2"/51mm	2	1710	81000	ea.	24563
100µL	RN	22s	2"/51mm	2	1710	81030	ea.	24564
250µL	N	22s	2"/51mm	2	1725	81100	ea.	24567
250µL	RN	22s	2"/51mm	2	1725	81130	ea.	24568
500µL	LTN	22	2"/51mm	2	1750	81217	ea.	24571
500µL	RN	22	2"/51mm	2	1750	81230	ea.	24572
1mL	LTN	22	2"/51mm	2	1001	81317	ea.	24575
1mL	RN	22	2"/51mm	2	1001	81330	ea.	24576
1mL	TLL	*		w/out slots	1001	81320	ea.	24578
2.5mL	TLL	*		w/out slots	1002	81420	ea.	24584
2.5mL	RN	22	2"/51mm	2	1002	81430	ea.	24582
2.5mL	N	22	2"/51mm	2	1002	81417	ea.	24581
5mL	TLL	*		w/out slots	1005	81520	ea.	20178
10mL	TLL	*		w/out slots	1010	81620	ea.	20179
25mL	TLL	*		w/out slots	1025	82520	ea.	24591
50mL	TLL	*		w/out slots	1050	85020	ea.	24717
100mL	TLL	*		w/out slots	1100	86020	ea.	24724

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE		qty.	Restek cat.#
					Model	cat.#		
10µL	F	26	50mm	2	10F-GT	002200	ea.	24725
10µL	R	26	50mm	2	10R-GT	002250	ea.	24726
25µL	F	25	50mm	2	25F-GT	003200	ea.	24727
25µL	R	25	50mm	2	25R-GT	003250	ea.	24728
50µL	F	25	50mm	2	50F-GT	004200	ea.	24729
50µL	R	25	50mm	2	50R-GT	004250	ea.	24730
100µL	F	25	50mm	2	100F-GT	005200	ea.	24734
100µL	R	25	50mm	2	100R-GT	005250	ea.	24735
100µL	LL	*			100F-LL-GT	005230	ea.	24737
250µL	F	25	50mm	2	250F-GT	006200	ea.	24738
250µL	R	25	50mm	2	250R-GT	006250	ea.	24739
250µL	LL	*			250F-LL-GT	006230	ea.	24741
500µL	F	25	50mm	2	500F-GT	007200	ea.	24742
500µL	R	25	50mm	2	500R-GT	007250	ea.	24743
1mL	R	23	50mm	2	1MR-GT	008100	ea.	24750
1mL	LL	*			1MDF-LL-GT	008025	ea.	24752
2.5mL	LL	*			2.5MDF-LL-GT	008425	ea.	24755
5mL	LL	*			5MDR-LL-GT	008760	ea.	24757
10mL	LL	*			10MDR-LL-GT	008960	ea.	24759
25mL	LL	*			25MDR-LL-GT	009462	ea.	24760
50mL	LL	*			50MR-LL-GT	009660	ea.	24761
100mL	LL	*			100MR-LL-GT	009760	ea.	24762

*Needles sold separately. See page 382.



24558

24728

Guide to Needle Termination Codes

Hamilton:

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SGE:

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- (LL) Luer Lock
- (LT) Luer Tip



Teflon® Tip, Gas-Tight Syringe Replacement Needles for Removable Needle Syringes

Materials: stainless steel needle, nickel-plated brass hub



Hamilton

Syringe Volume	Needle Gauge	Needle Length	Point Style	Hamilton cat.#	qty.	Restek cat.#
5–100µL	26s	2"	2	7758-02	6-pk.	24939
5–100µL	22s	2"	2	7758-03	6-pk.	24940
250µL–10mL	22	2"	2	7779-01	6-pk.	24942
250µL–10mL	26s	2"	2	7779-02	6-pk.	24943
250µL–10mL	22s	2"	2	7779-03	6-pk.	24944

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE cat.#	qty.	Restek cat.#
5µL	26	50mm	2	036110	5-pk.	24802
10µL	23	50mm	2	037111	5-pk.	24804
10µL	26	50mm	2	037110	5-pk.	24803
25–500µL	23	50mm	2	038111	5-pk.	24806
25–500µL	25	50mm	2	038110	5-pk.	24805
1–2.5mL	23	50mm	2	039110	5-pk.	24807



24802

Replacement Plunger Assembly, Teflon®-Tipped for Agilent 7673, 7683, and 6850 Autosampler Syringes

Hamilton

Syringe Volume	Needle Term.	Hamilton cat.#	qty.	Restek cat.#
10µL	N, RN, LT/LTN	13205	ea.	24919



24919

Gas-Tight Syringe Replacement Needles for Luer-Lock Syringes

Hamilton

Hub Material	Needle Gauge	Needle Length	Point Style	Hamilton cat.#	qty.	Restek cat.#
metal	26s	2"/51mm	2	90053	6-pk.	20133
metal	25s	1.97"	3	90049*	6-pk.	24605
metal	22s	2"/51mm	2	90051	6-pk.	24606
Kel-F (Teflon tip)	26s	2"/51mm	2	90153	6-pk.	24607
Kel-F (Teflon tip)	25s	1.97"	3	90149*	6-pk.	24608
Kel-F (Teflon tip)	22s	2"/51mm	2	90151	6-pk.	24609

*For Waters U6K injection valve.

SGE

Hub Material	Needle Gauge	Needle Length	Point Style	SGE cat.#	qty.	Restek cat.#
metal	23	50mm	2	039802	5-pk.	24763
metal	22	2"/51mm	3	039895**	2-pk.	24765
metal	18	50mm	2	039842	5-pk.	24764

**For Rheodyne/Valco valves.



24606



24763

SGE Gas-Tight Syringes with Shut-off Valves

- Ideal for sample storage and transportation.
- Push-pull shut-off valve.

SGE

Syringe Fitted with Removable Needle and Valve

Volume	Model	SGE		Restek	
		cat.#	qty.	cat.#	qty.
50 μ L	50R-V-GT	004279	ea.	24880	
100 μ L	100R-V-GT	005279	ea.	24881	
250 μ L	250R-V-GT	006279	ea.	24882	
500 μ L	500R-V-GT	007279	ea.	24883	
1mL	1MDR-V-GT	008110	ea.	24884	
2.5mL	2.5MDR-V-GT	008510	ea.	24885	

SGE

Syringe Fitted with Luer-Lock Valve*

Volume	Model	SGE		Restek	
		cat.#	qty.	cat.#	qty.
1mL	1MR-VLL-GT	008160	ea.	24886	
2.5mL	2.5MDR-VLL-GT	008560	ea.	24887	
5mL	5MDR-VLLMA-GT	008770	ea.	24888	
10mL	10MDR-VLLMA-GT	008970	ea.	24889	
25mL	25MDR-VLLMA-GT	009472	ea.	24890	
50mL	50MR-VLLMA-GT	009670	ea.	24891	
100mL	100MR-VLLMA-GT	009770	ea.	24892	

*Order needles separately.



Replacement Needles for Gas-Tight Syringes with Shut-off Valves

SGE

Model V Syringe Valve: fits any SGE removable needle syringe, 25 μ L-2.5 mL

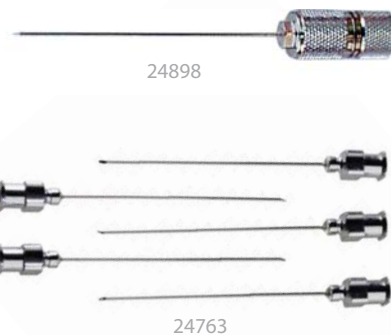
Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE		Restek	
				Model	cat.#	qty.	cat.#
25 μ L-2.5mL	23	50mm	Cone	V	031905	ea.	24898

SGE

Luer-Lock Needles

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE		Restek	
				Model	cat.#	qty.	cat.#
1mL-100mL	23	50mm	2	NLL-5/23	039802	5-pk.	24763
1mL-100mL	18	50mm	2	NLL-5/18	039842	5-pk.	24764
1mL-100mL	22	2"/51mm	3	NLL-LC	039895**	2-pk.	24765

**Fits Rheodyne & Valco injection valves



Economical Hamilton Syringe Guide***

- Prevents syringe plunger from bending.
- Adjustable stop prevents plunger damage.
- Easily installed.
- Used with syringe series 700/1700/1000.

Syringe Volume	Hamilton cat.#	Restek cat.#	qty.
25-500 μ L	14906	24615	ea.
5-10 μ L	14806	24616	ea.

***Syringe not included.





21260

24868

Gas-Tight Syringes for Rheodyne® & Valco® Valves

- Teflon®-tipped plungers.
- Removable needles.
- Replaceable syringe barrels, plungers, and plunger tips.

Hamilton

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton Model	Hamilton cat.#	Restek qty.	Restek cat.#
10µL	RN	26s	2"/51mm	3	1701	80065	ea.	21260
25µL	RN	22s	2"/51mm	3	1702	80265	ea.	21261
50µL	RN	22s	2"/51mm	3	1705	80965	ea.	21262
100µL	RN	22s	2"/51mm	3	1710	81065	ea.	21263
250µL	RN	22s	2"/51mm	3	1725	81165	ea.	21264

SGE

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE Model	SGE cat.#	Restek qty.	Restek cat.#
10µL	R	22	2"	3	10R-GT-LC	002313	ea.	24866
25µL	R	22	2"	3	25R-GT-LC	003312	ea.	24867
50µL	R	22	2"	3	50R-GT-LC	004312	ea.	24868
100µL	R	22	2"	3	100R-GT-LC	005312	ea.	24869
250µL	R	22	2"	3	250R-GT-LC	006312	ea.	24870
500µL	R	22	2"	3	500R-GT-LC	007312	ea.	24871

Replacement Needles for Gas-Tight Syringes for Rheodyne® & Valco® Valves

Hamilton

Syringe Volume	Needle Gauge	Needle Length	Point Style	Hamilton cat.#	Restek qty.	Restek cat.#
5-100µL	22s	2"	3	7770-01	6-pk.	24941
250µL-10mL	22	2"	3	7780-04	6-pk.	24945

SGE

Syringe Volume	Needle Gauge	Needle Length	Point Style	SGE cat.#	Restek qty.	Restek cat.#
10µL	22	2"	3	037250	5-pk.	24808
25-500µL	22	2"	3	038250	5-pk.	24809



24941

24808



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A-2 Luer Gas-Tight Syringes*

- For use with VOA-CYL 4 standards.
- Push-style on-off button valve.

Use to withdraw a gas sample from a high-pressure cylinder through a high-purity VOC single-stage regulator after attaching the appropriate adaptor to the regulator. Use with luer syringe needles listed.

Description	qty.	cat.#
100µL Luer Syringe	ea.	20162
500µL Luer Syringe	ea.	20163
Luer Syringe Needles for 100µL A2 Gas-Tight Syringes (22 gauge, 0.028" OD x 0.006" ID x 2")	3-pk.	22783
Luer Syringe Needles for 500µL A2 Gas-Tight Syringes (22 gauge, 0.028" OD x 0.012" ID x 2")	3-pk.	22784

*Restek's A-2 syringes have a luer tip.

Heavy Duty Purge & Trap Syringe (Dynatech Precision Sampling)

- Heavy-duty glass barrel with metal front and rear flanges.
- Teflon® luer-lock tip.
- Can fill and empty sparge tubes.
- Sample-Lok valve accepts standard luer-lock needles.
- Suitable for purge & trap applications.

Syringe	2mL		5mL		10mL	
	cat.#	cat.#	cat.#	cat.#	cat.#	cat.#
without Sample-Lok	21205	21206	21209			
with Sample-Lok		21208		21207		



Luer-Lock Valve Adaptors

Description	SGE	qty.	Restek
	cat.#		cat.#
Luer-Lock Valve Adaptors	200010	2-pk.	21283

Jumbo Syringe

Clear acrylic syringes, ideal for holding and dispensing large volumes of gas. An adjustable plunger on the O-ring ensures that the syringe is gas-tight over a long period of time. The central port is supplied with a luer-lock fitting; the secondary port is supplied with a septum nut. This enables access to the gas sample for adding standards or removing a subsample. The plunger stem is detachable, making sample storage easy.

Jumbo Syringe

Volume	Model	SGE	qty.	Restek
		cat.#		cat.#
500mL	500MAR-LL-GT	009910	ea.	21275
1000mL	1000MAR-LL-GT	009920	ea.	21276
2000mL	2000MAR-LL-GT	009930	ea.	21277

Syringe O-Rings

Syringe Volume	SGE	qty.	Restek
	cat.#		cat.#
500mL	032527	ea.	21278
1000mL	032532	ea.	21279



also **available**

Restek carries purge & trap spargers. See page 271 for more information.



21276



21279

21278