

9mm Short-Cap, Screw-Thread Vials, 12 x 32mm, 9mm Opening

Fit all 2.0mL, 12 x 32mm, Crimp-Top Vial Based Autosamplers.

- Shorter screw cap allows the robotic autosampler to function properly.
- Wider opening prevents syringe problems.
- Dimensions are effectively identical to the crimp-top vial.
- Variety of colors and liner material.

Are you tired of dealing with crimp-top vials, but worried about using screw-thread vials with your autosampler? If you want the performance of a crimp-top vial with the convenience of a screw-thread vial, these vials are the answer for you.

9mm Short-Cap, Screw-Thread Vials, 12 x 32mm, 9mm Opening

Description	100-pk.	1000-pk.
2.0mL Clear Vial, w/White Graduated Marking Spot	21140	21141
2.0mL Amber Vial, w/White Graduated Marking Spot	21142	21143
2.0mL Clear Vial, without Graduated Marking Spot	21154	21155

9mm Thread Pre-Assembled Short-Cap, Screw-Vial Closures

Description	100-pk.	500-pk.	1000-pk.
Blue Cap, PTFE/Red Rubber Liner	24473	—	24474
Mixed Colors, PTFE/Red Rubber Liner	—	24668	—
Blue Cap, PTFE/Silicone Liner	24485	—	24486
Green Cap, PTFE/Silicone Liner	24487	—	24488
Yellow Cap, PTFE/Silicone Liner	24493	—	24494
Mixed Colors, PTFE/Silicone Liner	—	24669	—
Blue Cap, PTFE/Silicone/PTFE Liner	24497	—	24498
Black Cap, PTFE/Silicone/PTFE Liner	24495	—	24496
Mixed Colors, PTFE/Silicone/PTFE Liner Cap	—	24670	—



Ideal for autosamplers that process 12 x 32mm crimp-top vials.

instrument reference

For 9mm Short-Cap, Screw-Thread Vials

Manufacturer	Instrument/Model #
Shimadzu	SIL-10A, 10Ai, 10AxL

Screw-Thread Vials, 12 x 32mm, 10mm/425 Thread, Big Mouth Step™ Design

- 40% larger opening than other vials.
- Step™ profile automatically centers glass flange limited volume inserts.
- Pre-assembled caps with septa, with or without vials.
- Designed for Waters Alliance® autosamplers.

The Big Mouth Step™ Vial System has a larger ID than conventional vials and incorporates a neck finish that is uniquely designed to allow the insert to be precisely aligned in the center of the vial. This precise alignment provides maximum sample withdrawal and eliminates any chance of missed injections. All vials with the large opening are designed with the Step™ Vial System.

Big Mouth Step™ Screw-Thread Vials (12 x 32mm, 10mm/425 Thread)

Description	100-pk.	1000-pk.
2.0mL Clear Step™ Vial, White Graduated Marking Spot	24626	24627
2.0mL Amber Step™ Vial, White Graduated Marking Spot	24628	24629



10mm Pre-Assembled Big Mouth Step™ Vial Kits (w/Black Cap)

Caps attached to vials.

Description	100-pk.	1000-pk.
2.0mL Clear Vial, PTFE/Silicone/Red PTFE Septa, 0.040"	24675	24676
2.0mL Clear Vial, Red PTFE/Silicone Septa, 0.065"	24642	24643
2.0mL Amber Vial, Red PTFE/Silicone Septa, 0.065"	24644	24645

instrument reference

For 10mm Screw-Thread Vials

Manufacturer	Instrument/Model #
Shimadzu	SIL-10A, 10Ai, 10AxL

Screw-Thread Step™ Vials, 4.0mL, WISP™ 48 Style, 13mm/425 Screw-Thread



4.0mL Clear Step™ Vial

WISP™ 48 Screw-Thread Step™ Vials (15 x 45mm, 13/425 Screw-Thread)

Description	100-pk.	1000-pk.
4.0mL Clear Step™ Vial, White Grad. Marking Spot	24654	24655
4.0mL Amber Step™ Vial, White Grad. Marking Spot	24656	24657

Caps and Septa

Description	100-pk.	1000-pk.
Top Hat™, PTFE/Silicone Septa	21745	21746
Pre-Assembled, Red PTFE/Silicone, 0.065"	21743	21744
Caps, Black, Polypropylene, Open-Hole	21741	21742
Septa, Red PTFE/Silicone, 0.040"	21751	21752
Septa, Red PTFE/Silicone, 0.060"	21749	21750

Limited Volume Inserts

Description	100-pk.	1000-pk.
500µL, Glass, WISP™, Flat Bottom*	21787	21788

*Also fit 4.0mL Snap Seal™ Vials (see our general catalog or website).

instrument **reference**

For WISP™ 48 Style Vials

Manufacturer	Instrument/Model #
Shimadzu	AOC-14/1400, AOC-17, SIL-2AS



Headspace Vials

Headspace Autosampler Vials

Description	100-pk.	1000-pk.
27mL Clear Vial	21160	21161

instrument **reference**

For Headspace Vials

Manufacturer	Instrument/Model #
Shimadzu	HSS-2B

20mm Aluminum Seals w/Septa, Assembled



Description	100-pk.	1000-pk.
Silver Seal w/ PTFE/Gray Butyl Rubber	21761	21762
Silver Seal w/ PTFE/Silicone	21763	21764
Pressure Release Silver Seal w/ PTFE/Gray Butyl Rubber Septum	21765	21766
Pressure Release Silver Seal w/ PTFE/Silicone Septum	21767	21768
20mm Magnetic Crimp Cap w/Teflon®/Silicone Septum (tan/white) with 8mm Hole	22831	22832
20mm Magnetic Crimp Cap w/Teflon®/Silicone Septum (tan/white) with 5mm Hole	22833	22834
20mm Magnetic Crimp Cap w/PTFE/Butyl Septum with 8mm Hole	22835	22836
20mm Magnetic Crimp Cap w/PTFE/Butyl Septum with 5mm Hole	22837	22838

5mm hole is compatible with the following systems: Carlo Erba HS500/HS800, CTC 500, Fisons HS500/HS800 and Varian/Chrompack 9020/25. 8mm hole is compatible with the Combi Pal.

Hand-held Rechargeable Crimpers and Rechargeable Decappers

- Easy to use; comfortable grip.
- Hundreds of operations from one charge.
- Adjustable crimping force.
- All kits include battery charger.



Powered by a standard Black and Decker Versapak® battery, these electronic tools for 11mm or 20mm caps will cycle hundreds of times on a single charge. The cycle is controlled precisely, through an internal counter, and is adjusted with two buttons on the side of the case. The tools fit comfortably in the hand and weigh approximately 600 grams. The jaws can be positioned easily around closely-spaced vials in standard autosampler trays. Each kit includes the tool, a Versapak® Gold rechargeable battery, which uses environmentally friendly NiMH technology, and a charger. Recharging generally takes 6-9 hours.

The Electronic Crimper fits around vials in standard autosampler trays. The adjustable setting provides a precision crimp, vial after vial.



Decapping has never been easier!

one...



two...



three!



Description	qty.	cat.#
11mm Electronic Crimper (110 volt battery charger)	kit	22853
11mm Electronic Crimper (220 volt European battery charger)	kit	22853-EUR
11mm Electronic Crimper (220 volt UK battery charger)	kit	22853-UK
11mm Electronic Decapper (110 volt battery charger)	kit	22854
11mm Electronic Decapper (220 volt European battery charger)	kit	22854-EUR
11mm Electronic Decapper (220 volt UK battery charger)	kit	22854-UK
20mm Electronic Crimper (110 volt battery charger)	kit	22851
20mm Electronic Crimper (220 volt European battery charger)	kit	22851-EUR
20mm Electronic Crimper (220 volt UK battery charger)	kit	22851-UK
20mm Electronic Decapper (110 volt battery charger)	kit	22852
20mm Electronic Decapper (220 volt European battery charger)	kit	22852-EUR
20mm Electronic Decapper (220 volt UK battery charger)	kit	22852-UK



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.

Restek offers complementing lines of syringes from Hamilton & SGE.

- Hamilton: The historical leader in precision fluid measuring devices for more than 50 years, with a commitment to precision, quality, and accuracy.
- SGE: More than 35 years of providing a comprehensive range of analytical syringes unsurpassed in design, quality, and performance.

Needle Gauge Chart

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

Needle Point Style

Restek offers several different point styles on syringe and needle products. Choose one depending 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: conical needle with side hole. Liquid samples are filled and dispensed through the side hole.



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



Point Style Agilent/Cone: Special conical style needle point used exclusively on syringes for autosamplers.

Syringe Termination

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 have listed the Hamilton/SGE designations for the most common 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 6000 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.

Autosampler Syringes for Shimadzu GCs

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



Hamilton 10µL Autosampler Syringe

Hamilton Syringes 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 5µL Autosampler Syringe

SGE Syringes 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

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 Shimadzu Autosampler Syringes



Needles for SGE Syringes

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

Standard Microliter Volume Syringes

Standard Microliter Volume 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 Microliter Syringe

Hamilton Syringes

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



SGE Standard Microliter Volume Syringe

SGE Syringes

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

*For replacement RN/R needles, see page 36.

**With plunger protection.



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 1700/1000 Series Gas-Tight Syringe

Hamilton Syringes

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	Hamilton		Restek
					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

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



SGE Gas-Tight Syringe

SGE Syringes

Volume	Needle Term.	Needle Gauge	Needle Length	Point Style	SGE		Restek
					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 36.

Gas-Tight Syringe Replacement Needles

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

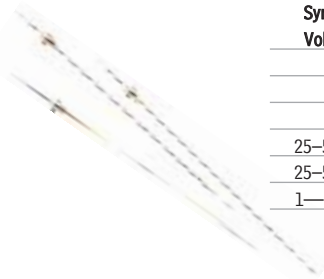
Materials: stainless steel needle, nickel plated brass hub

Needles for Hamilton Syringes



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


Needles for SGE Syringes



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


Gas-Tight Syringe Replacement Needles for Luer-Lock Syringes

Needles for Hamilton Syringes



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

Needles for SGE Syringes



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 Waters U6K injection valve.

**For Rheodyne®/Valco® valves.



In the U.S.

Call: 800-356-1688 (ext. 3) or 814-353-1300 (ext. 3)
Monday–Friday 8:00 a.m.–6:00 p.m.
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Our customers love us because we're dedicated to making their lives easier by providing:

- Innovative **products**
because we're focused on columns and supplies, not instruments
- Meaningful **solutions**
for analytical chemists from our world class chromatographers
- Unsurpassed **service**
from a small company that takes every customer and every order seriously

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