

8x40mm (1mL) Shell Vials

- Shell vials with thicker walls for safer sample handling
- 8x40mm vials for Waters® WISP™ 96 style autosamplers



4718

8x40 Shell Vial Kits are Ideal for Waters® or Shimadzu® Autosamplers

Convenience kits simplify ordering with one part number to remember. Kits provide both vials and caps for a perfect fit every time.



best value

6308

Limited Volume Inserts for 8x40 Shell Vials

- Select the appropriate limited volume insert for your microsampling needs
- Polyethylene springs act as shock adsorbers and help maintain proper insert alignment



4741

8x40mm Shell Vials for WISP™ 96 Style

Description	100/pk Part No.	1000/pk Part No.
<i>Shell Vials, 1mL, 8x40mm, Use 8mm Snap Plugs</i>		
Clear Shell Vial	88610	98212
Amber Shell Vial	88614	98216
Polypropylene Shell Vial	88625	98827
Silanized, Clear Shell Vial	886101	—
<i>Limited Volume Shell Vial, 8mm, Use Polyethylene Conical Snap Plugs</i>		
8x40mm Polypropylene Vial, 700µL	98990	98992

8x40mm Vial Kits

Description	100/pk Part No.	1000/pk Part No.
<i>8x40mm Shell Vial Kits for WISP™ Style Autosamplers</i>		
Clear Vials, Clear Snap Plugs with Starburst†	88617	73021
Amber Vials, Clear Snap Plugs with Starburst†	88597	73003
Polypropylene Vials, Clear Snap Plugs with Starburst†	88626	98224
Clear Silanized Vials, Clear Snap Plugs	982108	—
<i>8x40mm Shell Vial Kits for Shimadzu® Autosamplers</i>		
Clear Vials, Clear Easy Pierce Snap Plugs with Starburst†	70118	70132
Amber Vials, Clear Easy Pierce Snap Plugs with Starburst*	70134	70136

*Use to prevent bent needles.

†Thinner starburst for use with Shimadzu® autosamplers.

Limited Volume Inserts for 8x40mm Shell Vials

Description	100/pk Part No.	1000/pk Part No.
<i>Glass</i>		
150µL, 5x29mm, Requires Spring	95201	95202
150µL, with Bottom Spring, 5x29mm	73054	73074
200µL, 5x36mm	98900	98902
200µL, with Bottom Spring, 5x36mm	98227	98229
250µL, with Bottom Spring, 6x29mm	98658	98660
200µL, 5x31mm	73024	73025
Metal Springs for Inserts	73026	73027
200µL, Silanized, No Spring	989008	—
<i>Polypropylene</i>		
250µL, 6x31mm, No Spring	98106	98406
250µL, with Bottom Spring, 6x31mm	98108	98408
200µL, with Bottom Spring, 5x36mm	99185	99187

Polyethylene Snap Plugs with Starburst† 8mm

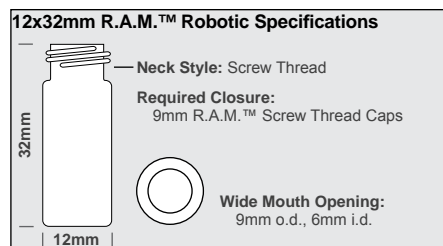
Description	100/pk Part No.	1000/pk Part No.
<i>Easy Pierce Snap Plug†</i>		
Clear Plug	70117	70129
<i>Snap Plug with Starburst*</i>		
Clear Plug	88613	98865
Red Plug	88618	98228
Blue Plug	88615	98232
Green Plug	88622	98234
Yellow Plug	88624	98879
Silicone Lined Snap Plug, Clear, Resealable	98662	98664
<i>Conical Snap Plug for Limited Volume Polyethylene Vial</i>		
Clear Plug	98994	98996
Red Plug	99003	99013
Blue Plug	99005	99015
Green Plug	99007	99017
Yellow Plug	99009	99019

*Use to prevent bent needles.

†Thinner starburst for use with Shimadzu® autosamplers.

12x32mm R.A.M.™ Robotic Screw Thread Vials

- Works on virtually every autosampler
- Use to replace crimp vials for use with robotic arms on autosamplers
- Crimp style height with screw thread configuration
- Incorporates unique StepVial design to precisely align insert and vial
- Economical kits simplify ordering
- Choose pre-slit septa for Waters® Acquity® Systems



			100/pk	1000/pk	Silanized 100/pk	With White Marking Spot 100/pk	1000/pk	With White Graduated Marking Spots 100/pk	1000/pk
<i>Vials</i>									
Clear			95386	95387	953861	88540	88544	95521	95522
Amber			95388	95389	953881	88542	88546	95531	95532
<i>Limited Volume Vials</i>									
1.5mL High Recovery Vials			72013	—	—	—	—	—	—
100µL Polypropylene Vials			90273	90271	—	—	—	—	—
100µL PMP (TPX) Vials			95096	95098	—	—	—	—	—
<i>Kits: Vials</i>	<i>Open-Hole Caps</i>	<i>with Septa</i>							
Clear Vials	9mm	PTFE/Butyl Septa	89135	89136	—	89120	89126	—	—
Amber Vials	9mm	PTFE/Butyl Septa	98004	98006	—	89125	89127	—	—
Clear Vials	9mm	PTFE/Silicone Septa	89145	89146	953868	89100	89104	—	—
Clear Vials	9mm	PTFE/Silicone/PTFE Septa	89149	89139	—	89128	89129	—	—
Amber Vials	9mm	PTFE/Silicone/PTFE Septa	89151	89152	—	89130	89131	—	—
<i>9mm R.A.M.™ Open-Hole Caps with Septa</i>									
Blue Cap		Bonded Interseal PTFE/Silicone Septa with Slit	70416	70418	—	70416	70418	70416	70418
Blue Cap		Bonded Interseal PTFE/Silicone Septa	70415	70417	—	70415	70417	70415	70417
Black Cap		PTFE/Silicone Septa with Slit	95380	95382	—	95380	95382	95380	95382
Blue Cap		PTFE/Silicone Septa with Slit	95385	95390	—	95385	95390	95385	95390
Black Cap		PTFE/Butyl Septa	95320	95319	—	95320	95319	95320	95319
Blue Cap		PTFE/Butyl Septa	95308	95311	—	95308	95311	95308	95311
Clear Cap		PTFE/Butyl Septa	95352	95348	—	95352	95348	95352	95348
Green Cap		PTFE/Butyl Septa	95346	95344	—	95346	95344	95346	95344
Red Cap		PTFE/Butyl Septa	95356	95354	—	95356	95354	95356	95354
Yellow Cap		PTFE/Butyl Septa	95358	95357	—	95358	95357	95358	95357
Black Cap		PTFE/Silicone Septa with Slit	95324	95342	—	95324	95342	95324	95342
Blue Cap		PTFE/Silicone Septa with Slit	95360	95359	—	95360	95359	95360	95359
Clear Cap		PTFE/Silicone Septa with Slit	95365	95364	—	95365	95364	95365	95364
Green Cap		PTFE/Silicone Septa with Slit	95362	95361	—	95362	95361	95362	95361
Red Cap		PTFE/Silicone Septa with Slit	95367	95366	—	95367	95366	95367	95366
Yellow Cap		PTFE/Silicone Septa with Slit	95377	95378	—	95377	95378	95377	95378
Black Cap		PTFE/Silicone/PTFE Septa	95328	95338	—	95328	95338	95328	95338
Blue Cap		PTFE/Silicone/PTFE Septa	95379	95381	—	95379	95381	95379	95381
Clear Cap		PTFE/Silicone/PTFE Septa	95371	95370	—	95371	95370	95371	95370
Green Cap		PTFE/Silicone/PTFE Septa	95369	95368	—	95369	95368	95369	95368
Red Cap		PTFE/Silicone/PTFE Septa	95374	95372	—	95374	95372	95374	95372
Yellow Cap		PTFE/Silicone/PTFE Septa	95376	95375	—	95376	95375	95376	95375
<i>9mm Unlined, Open-Hole R.A.M.™ Caps</i>									
Black Cap			90257	90268	—	90257	90268	90257	90268
Red Cap			90259	90270	—	90259	90270	90259	90270
Blue Cap			90261	90272	—	90261	90272	90261	90272
Green Cap			90263	90274	—	90263	90274	90263	90274
Yellow Cap			90265	90276	—	90265	90276	90265	90276
Clear Cap			90267	90278	—	90267	90278	90267	90278
<i>Septa for 9mm R.A.M.™ Caps</i>									
PTFE/Red Rubber—40mil			88701	88691	—	88701	88691	88701	88691
PTFE/Silicone—40mil			88705	88695	—	88705	88695	88705	88695
PTFE/Silicone/PTFE—40mil			88710	88699	—	88710	88699	88710	88699

more info

12x32 R.A.M.™ Vials are compatible with Waters® Alliance® and Acquity® Systems, Agilent 1100 & 1200, and Varian® 8000 & 9000. Refer to page 352 for more autosampler compatibility.



related products

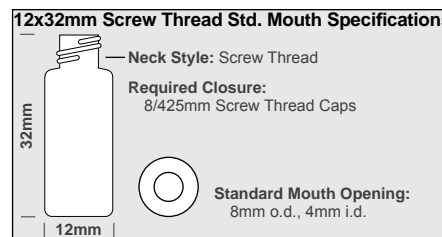
Do you have small samples? Choose limited volume vials or see our selection of limited volume inserts on page 361.

12x32 Screw Thread Standard Mouth Vials

- Work with a variety of autosamplers that require narrow neck vials
- Economical kits simplify ordering

more info

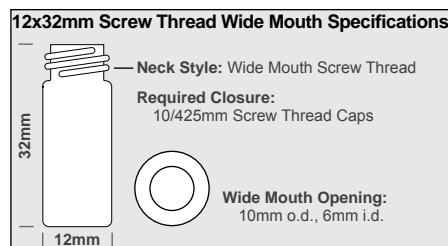
Compatible with Waters® Alliance®, Hitachi, Jasco, and Varian® autosamplers. Refer to page 352 for more autosampler compatibility.



	100/pk	1000/pk	Silanized 100/pk	With White Marking Spot 100/pk	1000/pk	With White Graduated Marking Spots 100/pk	1000/pk
<i>Vials</i>							
Clear	95191	95192	951911	98068	98161	95481	95482
Amber	95194	95195	951941	98078	98171	95491	95492
<i>Limited Volume Vials</i>							
1.1mL Glass Tapered Bottom, requires sleeve	74135	98574	—	—	—	—	—
Support Sleeve for 74135 (50/pk)	98558	—	—	—	—	—	—
100µL Heavy-Walled Glass with PTFE/Silicone-Lined Cap (12/pk, 10x12/pk)	9482	94823	—	—	—	—	—
600µL Polypropylene Vials (500/pk)	89073	—	—	—	—	—	—
100µL Polypropylene Vials	12962	12963	—	—	—	—	—
100µL PMP (TPX) Microvials	12970	12971	—	—	—	—	—
200µL Glass Insert in Clear Plastic Vial	98220	98222	—	—	—	—	—
200µL Glass Insert in Amber Plastic Vial	98225	98899	—	—	—	—	—
<i>Preassembled Kits</i>							
<i>Vials</i>	<i>Caps</i>	<i>with Septa</i>					
Clear Vials	8/425 Black	PTFE Septa—10mil	98533	98535	—	—	—
Clear Vials	8/425 Black	PTFE/Butyl Septa—40mil	98380	98382	—	—	—
Clear Vials	8/425 Black	PTFE/Silicone Septa—45mil	95175	95176	—	—	—
Clear Vials	8/425 Black	PTFE/Silicone Septa	—	—	72666	—	—
Amber Vials	8/425 Black	PTFE/Silicone Septa—45mil	95179	95181	—	—	—
Amber Vials	8/425 Black	PTFE/Silicone Septa	72670	—	—	—	—
<i>Preassembled Kits Spectra Physics/Varian®</i>							
<i>Vials</i>	<i>Caps</i>	<i>with Septa</i>					
Clear Vials	Flush-Fit 8/425 Black	PTFE/Silicone Septa	895175	895176	—	—	—
Clear Vials	Flush-Fit 8/425 Black	PTFE/Butyl Septa	898380	898382	—	—	—
Clear Vials	Flush-Fit 8/425 Black	PTFE/Silicone/PTFE Septa	898537	898539	—	—	—
Amber Vials	Flush-Fit 8/425 Black	PTFE/Butyl Septa	898385	898387	—	—	—
<i>Preassembled 8/425 Polypropylene</i>							
<i>Open-Hole Caps</i>	<i>with Septa</i>						
Black Cap	Bonded Interseal PTFE/Silicone Septa	70412	70414	—	70412	70414	70414
Black Flush-Fit Cap	PTFE/Silicone Septa	980611	980611	—	980611	980611	980611
Black Cap	PTFE/Silicone Septa with Slit	97018	97018	—	97018	97018	97018
Black Cap	PTFE/Silicone Septa	98061	98061	—	98061	98061	98061
Black Cap	PTFE/Silicone/PTFE Septa	98701	98701	—	98701	98701	98701
Black Cap	PTFE/Silicone TOP Hat Septa	98065	98065	—	98065	98065	98065
Yellow Cap	PTFE/Silicone TOP Hat Septa	98055	98055	—	98055	98055	98055
Clear Cap	TOP Seal Closure, Molded Poly Septa—10mil	98060	98160	—	98060	98160	98160
<i>Solid 8/425 Top Caps</i>	<i>with Septa</i>						
Green Phenolic Cap	PTFE Septa	73067	98067	—	73067	98067	98067
Black Polypropylene Cap	PTFE Septa	98063	98163	—	98063	98163	98163
Black Polypropylene Cap	—	98105	98109	—	98105	98109	98109
<i>Open-Hole Unlined 8/425 Caps</i>							
Black Flush-Fit Side Cap for Spectra-Physics and Varian® Autosamplers		730441	730442	—	730441	730442	730441
Black Cap		73044	73059	—	73044	73059	73044
Red Cap		98072	98172	—	98072	98172	98072
Blue Cap		98074	98174	—	98074	98174	98074
Green Cap		98076	98176	—	98076	98176	98076
White Cap		98084	98184	—	98084	98184	98084
White Cap for Shimadzu®, Hitachi, and Jasco Autosamplers		98087	98089	—	98087	98089	98087
Yellow Cap for Shimadzu®, Hitachi, and Jasco Autosamplers		73063	73065	—	73063	73065	73063
<i>Septa for 8/425 Caps</i>							
PTFE/Silicone with Slit—5/40mil		98088	98188	—	98088	98188	98088
White PTFE—10mil		98094	98194	—	98094	98194	98094
Red PTFE/White Silicone—5/55mil		73048	73060	—	73048	73060	73048
Red PTFE/White Silicone—5/60mil		98096	98196	—	98096	98196	98096
PTFE/Silicone—10/90mil		98499	98497	—	98499	98497	98499
Blue PTFE/White Silicone—5/60mil		98747	98749	—	98747	98749	98747
PTFE/Silicone/PTFE—2/36/2mil		98081	98181	—	98081	98181	98081
PTFE/Butyl—5/40mil		98190	98192	—	98190	98192	98190
Black Fluoroelastomer Polymer—30mil		98026	98047	—	98026	98047	98026

12x32mm Screw Thread Wide Mouth Vials

- 40% larger opening aids in sample transfers
- Larger target area prevents bent needles
- StepVial design precisely aligns insert and vial
- Economical kits simplify ordering



	100/pk	1000/pk	Silanized 100/pk	With White Marking Spot 100/pk	1000/pk	With White Graduated Marking Spots 100/pk	1000/pk
<i>Vials</i>							
Clear	98133	98433	981331	98291	98295	95501	95502
Amber	98135	98435	981351	98622	98624	95511	95512
<i>Limited Volume Vials</i>							
500µL Polypropylene Vial	98310	98314	—	—	—	—	—
750µL Polypropylene Vial	98099	98211	—	—	—	—	—
<i>Preassembled Kits:</i>							
<i>Vials</i>	<i>Caps</i>	<i>with Septa</i>					
Clear Vials	Black 10/425	PTFE Septa	98891	98906	—	—	—
Clear Vials	Black 10/425	PTFE/Silicone Septa	98893	98908	981338	—	—
Clear Vials	Black 10/425	PTFE/Silicone/PTFE Septa	98895	98910	—	—	—
Clear Vials	Black 10/425	PTFE/Butyl Septa	98290	98292	—	—	—
Amber Vials	Black 10/425	PTFE Septa	98274	98277	—	—	—
Amber Vials	Black 10/425	PTFE/Silicone Septa	98281	98284	981358	—	—
Amber Vials	Black 10/425	PTFE/Butyl Septa	98294	98296	—	—	—
<i>Unassembled Kits:</i>							
<i>Vials</i>	<i>Caps</i>	<i>with Septa</i>					
Clear Vials	Black 10/425	PTFE/Silicone Septa	97239	97229	—	—	—
Amber Vials	Black 10/425	PTFE/Silicone Septa	97249	97259	—	—	—
<i>Preassembled 10/425</i>							
<i>Open-Hole Caps</i>			<i>with Septa</i>				
Black Cap		Bonded Interseal PTFE/Silicone Septa w/Slit	70422	70426	—	70422	70426
Black Cap		Bonded Interseal PTFE/Silicone Septa	70411	70413	—	70411	70413
Black Cap		PTFE/Silicone Septa with Slit	97013	97023	—	97013	97023
Black Cap		PTFE/Silicone Septa	98144	98152	—	98144	98152
Black Cap		PTFE/Silicone/PTFE Septa	98705	98707	—	98705	98707
Black Cap		PTFE/Red Rubber Septa	97274	97216	—	97274	97216
Clear Cap		TOP Seal Closure, Molded Poly Septa	98405	98407	—	98405	98407
<i>Solid Polypropylene 10/425 Top Caps with Septa</i>							
Black Cap		PTFE Septa	98124	98424	—	98124	98424
Black Cap			98162	98167	—	98162	98167
<i>Unlined 10/425 Caps</i>							
Black Cap			98143	98443	—	98143	98443
Red Cap			98136	98436	—	98136	98436
Blue Cap			98138	98438	—	98138	98438
Green Cap			98140	98440	—	98140	98440
Yellow Cap			98122	98134	—	98122	98134
White Cap			98126	98426	—	98126	98426
<i>Septa for 10/425 Caps</i>							
PTFE/Silicone with Slit—5/55mil			98021	98421	—	98021	98421
White PTFE—10mil			98023	98423	—	98023	98423
Red PTFE/White Silicone—5/55mil			98141	98441	—	98141	98441
Red PTFE/White Silicone—5/65mil			98025	98425	—	98025	98425
PTFE/Silicone/PTFE—2/36/2mil			98027	98427	—	98027	98427
PTFE/Butyl Rubber—5/40mil			98029	98429	—	98029	98429

more info

12x32 Screw Thread Wide Mouth Vials are compatible with Waters® Alliance®, Agilent 1100 & 1200, Varian® 8000 & 9000. Refer to page 352 for more autosampler compatibility.

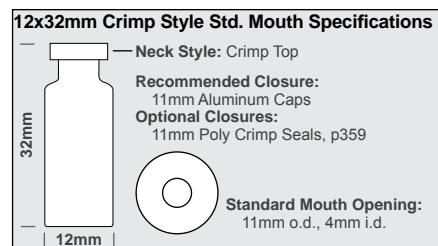


related products

Do you have small samples? Choose limited volume vials or see our selection of limited volume inserts on page 361.

12x32mm Crimp Style Standard Mouth Vials

- Work with most autosamplers
- Economical kits simplify ordering
- For small samples use limited volume vials or inserts — see page 361 for inserts



Vials	100/pk		1000/pk		With White Marking Spot		With White Graduated Marking Spots	
	100/pk	1000/pk	100/pk	1000/pk	100/pk	1000/pk	100/pk	1000/pk
Vials								
Clear	66002	66003	98073	98191	95461	95462		
Amber	95221	95222	98077	98197	95471	95472		
Limited Volume Vials								
100µL Glass Heavy Walled (12/pk, 10x12/pk)	9480*	94802*	—	—	—	—		
600µL Polypropylene Vial (500/pk)	—	88363*	—	—	—	—		
300µL Polypropylene Microvial	12990	12991	—	—	—	—		
300µL Polypropylene Microvial (12x31mm)	12982	12983	—	—	—	—		
Kits: Vials Seals with Septa								
Clear Vials 11mm Aluminum Seals PTFE Septa—10mil	98389	98391	—	—	—	—		
Clear Vials 11mm Aluminum Seals PTFE/Silicone Septa	98318	98329	—	—	—	—		
Clear Vials 11mm Aluminum Seals PTFE/Butyl Septa	95161	95162	—	—	—	—		
Amber Vials 11mm Aluminum Seals PTFE/Silicone Septa	98368	98371	—	—	—	—		
Amber Vials 11mm Aluminum Seals PTFE/Butyl Septa	95151	98331	—	—	—	—		
11mm Aluminum Caps								
Silver Cap with Septa 1/8" Center Hole with PTFE/Butyl Septa—40mil	98298	98304	98298	98304	98298	98304		
Silver Cap with Septa PTFE/Butyl Septa—40mil	73070	73071	73070	73071	73070	73071		
Red Cap with Septa PTFE/Butyl Septa—40mil	98051	98151	98051	98151	98051	98151		
Blue Cap with Septa PTFE/Butyl Septa—40mil	98053	98153	98053	98153	98053	98153		
Green Cap with Septa PTFE/Butyl Septa—40mil	98057	98157	98057	98157	98057	98157		
Gold Cap with Septa PTFE/Butyl Septa—40mil	98059	98159	98059	98159	98059	98159		
Silver Cap with Septa PTFE/Silicone Septa—3/37mil	98740	94867	98470	94867	98740	94867		
Silver Cap with Septa PTFE/Silicone/PTFE Septa—2/36/2mil	94855	94865	94855	94865	94855	94865		
Silver Cap with Septa Black Fluoroelastomer Polymer Septa—40mil	94852	94862	94852	94862	94852	94862		
Silver Cap with Septa PTFE/Gray Chlorobutyl Septa—2/38mil	98742	94870	98742	94870	98742	94870		
Silver Cap with Septa Polypropylene Septa—10mil	98011	98111	98011	98111	98011	98111		
Silver Cap with Septa PTFE Septa—10mil	98013	98113	98013	98113	98013	98113		
Unlined 11mm Aluminum Seals								
Silver Seal, Open-Hole	98746	66405	98746	66405	98746	66405		
Septa for 11mm Aluminum Seals								
White PTFE—10mil	98007	98017	98007	98017	98007	98017		
PTFE/Silicone—5/55mil	98009	98019	98009	98019	98009	98019		
PTFE/Silicone/PTFE—2/36/2mil	98010	98020	98010	98020	98010	98020		
PTFE/Butyl Rubber—5/40mil	98398	98400	98398	98400	98398	98400		

*See correct quantity specified in description.

more info

12x32mm Crimp Style Vials (on pages 358, 359) are compatible with Agilent and Varian® autosamplers. Refer to page 352 for detailed autosampler compatibility.

technical assistance

Contact Tech Support: Phone: 1.800.255.8324 (North America)
 Email: contact.alltech@grace.com
 Online: www.discoverysciences.com



related products

Looking for a crimper or decrimper? Refer to page 383.



12x32mm Crimp Style Wide Mouth Vials

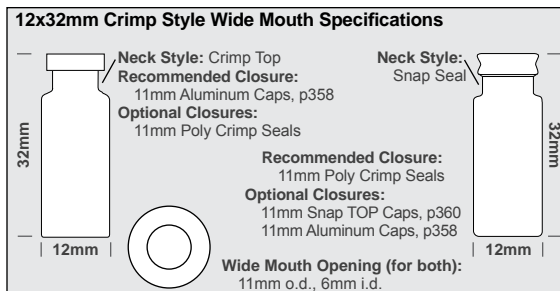
Standard Crimp Top

- 40% larger opening aids in sample transfers and prevents bent needles
- StepVial design precisely aligns insert and vial
- Economical kits simplify ordering



Snap Seal

- Unique design allows secure seal
- Economical kits simplify ordering



	100/pk	1000/pk	With White Marking Spot		With White Graduated Marking Spots	
	100/pk	1000/pk	100/pk	1000/pk	100/pk	1000/pk
Snap Seal Vials						
Clear	95160	95190	95165	95155	95401	95402
Amber	95163	95153	95167	95157	95411	95412
Crimp Top Vials						
Clear	98213	98239	98001	98201	95441	95442
Amber	98245	98249	98003	98203	95451	95452
Snap Seal Limited Volume Vials						
100µL Clear Glass Micro Vial, Heavy Wall	95183	—	—	—	—	—
1.5mL Clear Glass High Recovery (HRV) Vial	72016	—	—	—	—	—
Crimp Top Limited Volume Vials						
1.5mL Glass High Recovery (HRV) Vial	72009	—	—	—	—	—
2mL Glass Round Bottom Vial	74125	98560	—	—	—	—
1.1mL Glass Tapered Bottom Vial, Requires Sleeve	74145	98562	—	—	—	—
Support Sleeve for 74145 (50/pk)	98558	—	—	—	—	—
300µL Clear Glass LVI Vial	—	—	95240	—	—	—
300µL Amber Glass LVI Vial	—	—	95268	—	—	—
Snap Seal Kits:						
<i>Vials</i>	<i>Seals</i>	<i>with Septa</i>				
Clear Vials	11mm Poly Crimp Seals	PTFE/Butyl Septa		88487	88491	—
Clear Vials	11mm Poly Crimp Seals	PTFE/Silicone Septa		88496	88475	—
Clear Vials	11mm Poly Crimp Seals	PTFE/Silicone/PTFE Septa		88494	88473	—
Amber Vials	11mm Poly Crimp Seals	PTFE/Butyl Septa		88493	88479	—
Amber Vials	11mm Poly Crimp Seals	PTFE/Silicone Septa		88498	88484	—
Crimp Top Kits:						
<i>Vials</i>	<i>Seals</i>	<i>with Septa</i>				
Clear Vials	11mm Aluminum Seals	PTFE Septa—10mil		98457	98459	—
Clear Vials	11mm Aluminum Seals	PTFE/Silicone Septa		98419	98428	—
Clear Vials	11mm Aluminum Seals	PTFE/Silicone/PTFE Septa		98447	98451	—
Clear Vials	11mm Aluminum Seals	PTFE/Butyl Septa		98397	98404	—
Amber Vials	11mm Aluminum Seals	PTFE/Silicone Septa		98434	98437	—
Amber Vials	11mm Aluminum Seals	PTFE/Butyl Septa		98413	98417	—
Clear Vials	11mm Poly Crimp Seals	PTFE/Silicone Septa		88369	88366	—
Clear Vials	11mm Poly Crimp Seals	PTFE/Butyl Septa		88368	88380	—
Amber Vials	11mm Poly Crimp Seals	PTFE/Silicone Septa		88375	88378	—
Amber Vials	11mm Poly Crimp Seals	PTFE/Butyl Septa		88374	88396	—
11mm Poly Crimp Seals						
Clear Seal		PTFE/Silicone Septa with Slit		95325	95340	95325
Clear Seal		PTFE/Silicone Septa with Starburst		95335	95350	95335
Clear Seal		PTFE Septa—10mil		95230	95330	95230
Red Seal		PTFE Septa—10mil		95207	95341	95207
Blue Seal		PTFE Septa—10mil		95215	95343	95215
Green Seal		PTFE Septa—10mil		95217	95345	95217
Yellow Seal		PTFE Septa—10mil		95219	95347	95219
Clear Seal		PTFE/Butyl Septa		95232	95332	95232
Red Seal		PTFE/Butyl Septa		95235	95349	95235
Blue Seal		PTFE/Butyl Septa		95237	95351	95237
Green Seal		PTFE/Butyl Septa		95239	95353	95239
Yellow Seal		PTFE/Butyl Septa		95233	95355	95233
Clear Seal		PTFE/Silicone Septa		95234	95334	95234
Red Seal		PTFE/Silicone Septa		95293	95224	95293
Blue Seal		PTFE/Silicone Septa		95295	95225	95295
Green Seal		PTFE/Silicone Septa		95297	95226	95297
Yellow Seal		PTFE/Silicone Septa		95285	95227	95285
Clear Seal		PTFE/Silicone/PTFE Septa		95236	95336	95236
Red Seal		PTFE/Silicone/PTFE Septa		95310	95164	95310
Blue Seal		PTFE/Silicone/PTFE Septa		95312	95166	95312
Green Seal		PTFE/Silicone/PTFE Septa		95316	95182	95316
Yellow Seal		PTFE/Silicone/PTFE Septa		95318	95184	95318

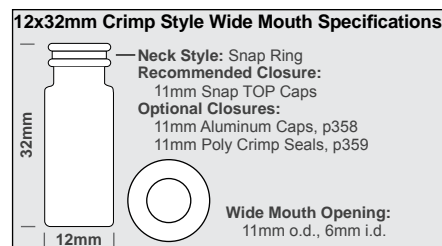
12x32mm Crimp Style Wide Mouth Vials

Snap Ring

- 40% larger opening aids in sample transfers
- StepVial design precisely aligns insert and vial
- Economical kits simplify ordering



4714



Snap Ring Vials

	100/pk	1000/pk	With White Marking Spot 100/pk	With White Marking Spot 1000/pk	With White Graduated Marking Spots 100/pk	With White Graduated Marking Spots 1000/pk
Clear	98030	98130	98033	98202	95421	95422
Amber	98095	98195	98083	98205	95431	95432

Snap Ring Limited Volume Vials

300µL Glass Insert in Clear Glass Vial	98086	98238	—	—	—	—
750µL Polypropylene Vial	98050	98215	—	—	—	—
750µL TPX (PMP) Vial	72015	72017	—	—	—	—
500µL Polypropylene Vial	98842	98844	—	—	—	—
500µL TPX (PMP) Vial	72011	72014	—	—	—	—
100µL Polypropylene Vial	12960	12961	—	—	—	—
100µL TPX (PMP) Microvial	12968	12969	—	—	—	—
200µL Glass Insert in Clear Vial	98230	98231	—	—	—	—
200µL Glass Insert in Amber Vial	98235	98236	—	—	—	—

Snap Ring Kits:

Vials	Caps	with Septa				
Clear Vials	11mm Snap TOP Caps	PTFE/Silicone Septa with Slit	98465	98467	—	—
Clear Vials	11mm Snap TOP Caps	PTFE/Silicone Septa with Starburst	98469	98471	—	—
Clear Vials	11mm Snap TOP Caps	PTFE/Butyl Septa	98473	98477	—	—
Clear Vials	11mm Snap TOP Caps	PTFE/Silicone Septa	98483	98485	—	—
Amber Vials	11mm Snap TOP Caps	PTFE/Butyl Septa	98479	98481	—	—
Amber Vials	11mm Snap TOP Caps	PTFE/Silicone Septa	98487	98489	—	—

11mm Snap TOP Caps

		with Septa				
Clear Cap	PTFE/Silicone Septa with Slit	98168	98268	98168	98268	98168
Clear Cap	PTFE/Silicone Septa with Starburst	98252	98255	98252	98255	98252
Clear Cap	PTFE/Silicone/PTFE Septa with Starburst	98257	98259	98257	98259	98257
Clear Cap	Red Fluoroelastomer Polymer Septa	98223	98243	98223	98243	98223
Clear Cap	PTFE Septa—10mil	98032	98442	98032	98442	98032
Red Cap	PTFE Septa—10mil	98332	98333	98332	98333	98332
Blue Cap	PTFE Septa—10mil	98334	98335	98334	98335	98334
Green Cap	PTFE Septa—10mil	98336	98337	98336	98337	98336
Yellow Cap	PTFE Septa—10mil	98338	98339	98338	98339	98338
Clear Cap	PTFE/Silicone Septa—10mil	98034	98444	98034	98444	98034
Red Cap	PTFE/Silicone Septa—10mil	98340	98341	98340	98341	98340
Blue Cap	PTFE/Silicone Septa—10mil	98342	98343	98342	98343	98342
Green Cap	PTFE/Silicone Septa—10mil	98344	98345	98344	98345	98344
Yellow Cap	PTFE/Silicone Septa—10mil	98346	98347	98346	98347	98346
Clear Cap	PTFE/Silicone/PTFE Septa—40mil	98036	98446	98036	98446	98036
Red Cap	PTFE/Silicone/PTFE Septa—40mil	98348	98349	98348	98349	98348
Blue Cap	PTFE/Silicone/PTFE Septa—40mil	98350	98351	98350	98351	98350
Green Cap	PTFE/Silicone/PTFE Septa—40mil	98352	98353	98352	98353	98352
Yellow Cap	PTFE/Silicone/PTFE Septa—40mil	98354	98355	98354	98355	98354
Clear Cap	PTFE/Butyl Rubber Septa—40mil	98038	98448	98038	98448	98038
Red Cap	PTFE/Butyl Rubber Septa—40mil	98356	98357	98356	98357	98356
Blue Cap	PTFE/Butyl Rubber Septa—40mil	98358	98359	98358	98359	98358
Green Cap	PTFE/Butyl Rubber Septa—40mil	98362	98363	98362	98363	98362
Yellow Cap	PTFE/Butyl Rubber Septa—40mil	98364	98365	98364	98365	98364
Clear Cap	Polyethylene Septa—10mil	98170	98270	98170	98270	98170

11mm GC Snap TOP Caps

	with Septa				
Clear Cap	PTFE/Red Butyl Septa	88351	88364	88351	88364
Clear Cap	PTFE/Silicone Septa	88359	88367	88359	88367
Clear Cap	PTFE/Silicone/PTFE Septa	88362	88469	88362	88469

more info

GC Snap TOP Caps provide better seal for volatile samples.

related products

Looking for crimping tools?
 Refer to page 383.

Limited Volume Inserts for 12x32mm Vials

- Select the appropriate limited volume insert for your microsampling needs
- Polyethylene springs act as shock adsorbers and help to maintain proper insert alignment
- Flange step inserts align precisely in StepVial design neck



4747

Vial Adapter

For Use with Waters® Alliance® Autosampler

- Reuseable adapter
- Adds versatility to use of your Waters® 717 and Alliance® autosamplers



5222

Prepare samples in one 8x30mm vial and analyze using either the Waters® WISP™ 96 or Alliance® autosampler trays.

technical assistance

Contact Tech Support: Phone: 1.800.255.8324 (North America)
 Email: contact.alltech@grace.com
 Online: www.discoverysciences.com

Limited Volume Inserts for Standard Mouth Vials (4mm i.d.)

Description	100/pk Part No.	1000/pk Part No.
<i>Glass</i>		
100µL, No Spring	95201	95202
100µL, with Polyethylene Bottom Spring	98031	98131
50µL, with Polyethylene Bottom Spring	98018	98058
50-100µL, Requires Spring	95203	95204
Metal Springs for (95203)	95205	95206
250µL, Flat Bottom	98028	98128
100µL, Silanized, No Spring Required	952018	—
<i>Polypropylene</i>		
100µL, No Spring	98137	98237
100µL, with Polyethylene Bottom Spring	98069	98169
250µL, Flat Bottom, 5x31mm	99176	99179
<i>Glass for Screw Thread 4mm i.d. Only</i>		
100µL, with Polyethylene Top Flange	98107	98117

Limited Volume Inserts for Wide Mouth Vials (6mm i.d.)

Description	100/pk Part No.	1000/pk Part No.
<i>Glass</i>		
250µL, No Spring	98322	98324
250µL, Glass Flange Step Insert	98745	98755
50µL, with Polyethylene Bottom Spring	98024	98064
100µL, with Polyethylene Top Spring	98052	98452
250µL, with Polyethylene Bottom Spring	98049	98449
400µL, Flat Bottom	981391	98439
250µL, Silanized	983228	—
250µL, Silanized with Polyethylene Bottom Spring	99060	—
<i>Polypropylene</i>		
100µL, with Polyethylene Top Spring	92102	98402
250µL, with Polyethylene Bottom Spring	98108	98408
250µL, No Spring Required	98106	98406
250µL, Polyethylene Flange Step Insert	98729	98739
350µL, Flat Bottom, 6x30mm	99183	99189

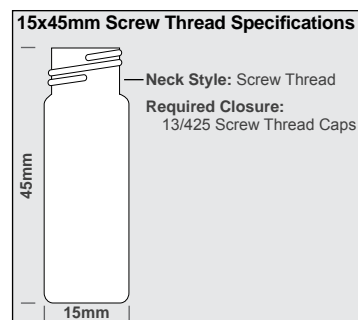
Vial Adapter for Waters® Alliance® Autosampler

Description	100/pk Part No.	1000/pk Part No.
<i>Reuseable Adapter for Alliance® 12x32mm Autosampler Tray</i>		
Adapter for Use of 8x30mm Vials in a 12x32mm Tray, 24/pkg	98374*	—
<i>Kits—Vials and Caps for Use with Waters® 717 or Alliance® Autosamplers</i>		
8x30mm Shell Vials, 8mm Clear Starburst Snap Plugs	98100	98360
<i>Vials and Caps for Use with Waters® 717 or Alliance® Autosamplers</i>		
8x30mm Shell Vials, Clear Glass	97029	98037
8x30mm Polypropylene Shell Vial, 900µL	99184	99192
8x30mm Polypropylene LV Shell Vial, 500µL	99178	99182
8mm Clear Starburst Snap Plugs	88613	98865
<i>Vials and 10/425 Caps for Waters® Alliance® Autosamplers</i>		
12x32mm Clear Wide Mouth Vials	98133	98433
12x32mm Amber Wide Mouth Vials	98135	98435
Black Polypropylene Caps, PTFE/Silicone Septum, 60mil	98144	98152

*Correct quantity specified in description.

15x45mm Screw Thread Vials

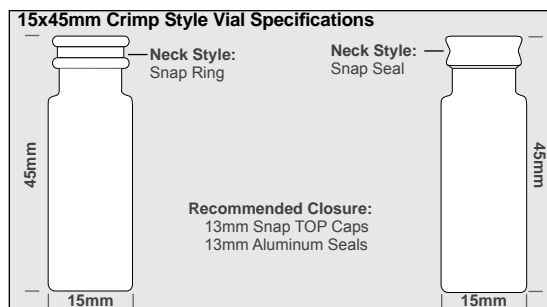
- Compatible with Waters® WISP™ 48 position, 717, Breeze™ and Shimadzu® autosamplers
- Use for waste/wash vials for other autosamplers
- 13/425 open top caps and septa
- StepVial design precisely aligns insert and vial
- Economical kits simplify ordering



Vials	100/pk		Silanized	With White Marking Spot		With White Graduated Marking Spots	
	100/pk	1000/pk	100/pk	100/pk	1000/pk	100/pk	1000/pk
Clear	98110	98207	981101	98241	98247	97084	97088
Amber	98120	98484	981201	98261	98267	97097	97117
<i>Limited Volume Vials</i>							
3.1mL Glass High Recovery Vial	72018	—	—	—	—	—	—
1.2mL Polypropylene Limited Volume Vial	70149	70198	—	—	—	—	—
2.5mL Polypropylene Vial	98091	98491	—	—	—	—	—
300µL Plastic Vial with Glass Insert	98251	98253	—	—	—	—	—
<i>Preassembled Kits:</i>							
<i>Vials</i>	<i>Caps</i>	<i>with Septa</i>					
Clear Vials	Open-Hole Caps	PTFE Septa—10mil		98000	98002	—	—
Amber Vials	Open-Hole Caps	PTFE Septa—10mil		98004	98006	—	—
Clear Vials	Open-Hole Caps	PTFE/Silicone Septa—10/50mil		98008	98012	72676	—
Amber Vials	Open-Hole Caps	PTFE/Silicone Septa—10/50mil		98014	98016	72680	—
Clear Vials	Open-Hole Caps	PTFE/Silicone/PTFE Septa		98549	98551	—	—
Amber Vials	Open-Hole Caps	PTFE/Silicone/PTFE Septa		98618	98621	—	—
Clear Vials	Open-Hole Caps	PTFE/Butyl Septa—40mil		98623	98626	—	—
Amber Vials	Open-Hole Caps	PTFE/Butyl Septa—40mil		98628	98630	—	—
Clear Vials	Open-Hole Caps	TOP Hat Septa—65mil		98633	98632	—	—
<i>Limited Volume Inserts</i>							
250µL Flange Step Glass Insert	70205	70215	—	70205	70215	70205	70215
275µL 7x44mm Polypropylene LV Insert	99165	99180	—	99165	99180	99165	99180
300µL 6x38mm Glass Insert, Requires Metal Spring	98118	98218	—	98118	98218	98118	98218
300µL 6x38mm Polypropylene Insert, Requires Metal Spring	98071	98271	—	98071	98271	98071	98271
Metal Springs for 300µL Inserts	98121	98221	—	98121	98221	98121	98221
300µL Self Centering Glass Top Spring	98056	98256	—	98056	98256	98056	98256
300µL Self Centering Polyethylene Top Spring	92104	98204	—	92104	98204	92104	98204
300µL Self Centering Glass Bottom Spring	98199	98299	—	98199	98299	98199	98299
300µL Self Centering Polyethylene Bottom Spring	98193	98293	—	98193	98293	98193	98293
300µL Silanized Glass Insert	—	—	981188	—	—	—	—
350µL Flange Step Glass Insert	98942	98944	—	98942	98944	98942	98944
500µL 8x43mm Glass Flat Bottom Insert	98581	98583	—	98581	98583	98581	98583
<i>Preassembled 13/425</i>							
<i>Open-Hole Caps</i>	<i>with Septa</i>						
Black Cap	Bonded Interseal PTFE/Silicone Septa		70420	70424	—	70420	70424
Black Cap	PTFE/Silicone Septa with Slit—60mil		97017	97027	—	97017	97027
Black Cap	PTFE/Silicone Septa—65mil		98610	98612	—	98610	98612
Black Cap	PTFE/Silicone/PTFE Septa		98735	98737	—	98735	98737
Black Cap	PTFE/Silicone TOP Hat Septa		98075	98475	—	98075	98475
Clear Cap	TOP Seal Closure with Molded Septa—10mil		98070	98480	—	98070	98480
<i>Solid 13/425 TOP Caps with Septa</i>							
Solid Green Phenolic Cap with PTFE Septa	98209	98476	—	98209	98476	98209	98476
Solid White Cap with Interseal PTFE/Silicone Bonded Septa	99031	—	—	99031	—	99031	—
Solid Black Cap with PTFE/F217 Septa	98430	98432	—	98430	98432	98430	98432
Solid Black Cap	98614	98616	—	98614	98616	98614	98616
<i>Unlined 13/425 Caps</i>							
Black Cap	73090	73092	—	73090	73092	73090	73092
Red Cap	98454	98466	—	98454	98466	98454	98466
Blue Cap	98456	98468	—	98456	98468	98456	98468
Green Cap	98458	98470	—	98458	98470	98458	98470
Yellow Cap	98460	98472	—	98460	98472	98460	98472
White Cap	98462	98474	—	98462	98474	98462	98474
<i>Septa for 13/425 Caps</i>							
PTFE—10mil	73094	73096	—	73094	73096	73094	73096
PTFE/Silicone with Slit—5/55mil	98164	98464	—	98164	98464	98164	98464
PTFE/Butyl Rubber—5/55mil	98367	98369	—	98367	98369	98367	98369
Red PTFE/Silicone—5/55mil	98846	98848	—	98846	98848	98846	98848
PTFE/White Silicone—10/50mil	98123	98450	—	98123	98450	98123	98450
PTFE/White Silicone—10/90mil	98219	95248	—	98219	95248	98219	95248
PTFE/Silicone/PTFE—2/36/2mil	98280	98282	—	98280	98282	98280	98282
Black Fluoroelastomer Polymer—30mil	98606	98608	—	98606	98608	98606	98608

15x45mm Crimp Style Vials

- Compatible with Waters® WISP™ 48 position, 717 and Shimadzu® autosamplers
- Use for waste/wash vials for other autosamplers
- Economical kits simplify ordering



	100/pk	1000/pk	With White Graduated Marking Spots			
			100/pk	1000/pk		
<i>Snap Seal Vials, 4mL</i>						
Clear	98040	98240	95545	95546		
Amber	98097	98297	95547	95548		
<i>Snap Ring Limited Volume Vials</i>						
300µL Plastic Vial with Glass Insert	98154	98156	—	—		
2.5mL Polypropylene Vial	98054	98254	—	—		
<i>Unassembled Kits:</i>						
<i>Snap Seal Vials Caps with Septa</i>						
Clear Vials	13mm Snap TOP Caps	PTFE Septa—10mil	98390	98392	—	—
Clear Vials	13mm Snap TOP Caps	PTFE/Silicone Septa	98874	98876	—	—
Amber Vials	13mm Snap TOP Caps	PTFE/Silicone Septa	98870	98872	—	—
Clear Vials	13mm Snap TOP Caps	PTFE/Butyl Septa	98636	98638	—	—
Amber Vials	13mm Snap TOP Caps	PTFE/Butyl Septa	98640	98644	—	—
Clear Vials	13mm Snap TOP Caps	PTFE/Silicone/PTFE Septa	98646	98648	—	—
<i>Unassembled Kits:</i>						
<i>Snap Seal Vials Seals with Septa</i>						
Clear Vials	Caps	PTFE/Silicone Septa	98132	98269	—	—
Clear Vials	Caps	PTFE/Butyl Septa	98145	97266	—	—
Clear Vials	Caps	PTFE/Silicone/PTFE Septa	98147	97273	—	—
<i>Limited Volume Inserts</i>						
250µL Flange Step Glass Insert	70205	70215	70205	70215		
275µL 7x44mm Polypropylene LV Insert	99165	99180	99165	99180		
300µL 6x38mm Glass Insert, Requires Metal Spring	98118	98218	98118	98218		
300µL 6x38mm Polypropylene Insert, Requires Metal Spring	98071	98271	98071	98271		
Metal Springs for 300µL Inserts	98121	98221	98121	98221		
300µL Self Centering Glass Top Spring	98056	98256	98056	98256		
300µL Self Centering Polyethylene Top Spring	92104	98204	92104	98204		
300µL Self Centering Glass Bottom Spring	98199	98299	98199	98299		
300µL Self Centering Polyethylene Bottom Spring	98193	98293	98193	98293		
350µL Flange Step Glass Insert	98942	98944	98942	98944		
500µL 8x43mm Glass Flat Bottom Insert	98581	98583	98581	98583		
<i>13mm Snap TOP Caps with Septa</i>						
Clear Cap	PTFE Septa—10mil	98042	98242	98042	98242	
Clear Cap	PTFE/Silicone Septa	98044	98244	98044	98244	
Clear Cap	PTFE/Silicone/PTFE Septa	98046	98246	98046	98246	
Clear Cap	PTFE/Butyl Rubber Septa	98048	98248	98048	98248	
Clear Cap	PTFE/Silicone Septa with Starburst	98586	98588	98586	98588	
Clear Cap	PTFE/Silicone/PTFE Septa with Starburst	98593	98594	98593	98594	
<i>13mm Aluminum Seals with Septa</i>						
Silver Seal	PTFE Septa—10mil	98101	98103	98101	98103	
Silver Seal	PTFE/Silicone Septa	98283	98289	98283	98289	
Silver Seal	White PTFE/Butyl Septa	98776	98206	98776	98206	
Silver Seal	PTFE/Silicone/PTFE Septa	98596	98598	98596	98598	
Gold Seal	Pharma-Fix Septa	6687	98208	6687	98208	
<i>13mm Aluminum Seals, Unlined</i>						
Silver Seal, Center Tear Off		98778	66410	98778	66410	
Red Seal, Center Tear Off		98780	—	98780	—	
Blue Seal, Center Tear Off		98783	—	98783	—	
Green Seal, Center Tear Off		98785	—	98785	—	
Gold Seal, Center Tear Off		98787	—	98787	—	
Silver Seal, Tear-Away		98789	66416	98789	66416	
<i>13mm Septa for Aluminum Seals</i>						
White PTFE—10mil		98177	—	98177	—	
PTFE/Silicone—10/50mil		98791	95253	98791	95253	
PTFE/Silicone—10/90mil		98793	95254	98793	95254	
PTFE/Silicone/PTFE—2/36/2mil		98180	98182	98180	98182	
PTFE/Butyl Rubber—40mil		98173	98175	98173	98175	

Headspace Vials

- Crimp style vials, made of borosilicate glass
- New screw thread headspace vial
- Five finish styles available
- Choose from three vial sizes, 6, 10, or 20mL

For reproducible results, it's very important that the headspace vials and caps form a tight seal. In headspace analysis, the sample is sealed into the vial and heated until the concentration in the gas phase (headspace) is in equilibrium with the concentration in the liquid phase. An aliquot from the headspace is then analyzed.



Shimadzu® HSS-2B



30x60mm
27mL

Vials for Tekmar®



18x50mm
9mL

18x65mm
12mL

Bevel Top,
Round Bottom
20mL

Headspace Vials

Description	100/pk Part No.	1000/pk Part No.
<i>Flat Top, Flat Bottom, Clear Glass, Long Neck</i>		
22.5x75.5mm, 20mL Vials	6636	66361
22.5x46mm, 10mL Vials	6655	66551
<i>Flat Top, Round Bottom, Clear Glass</i>		
22.5x75.5mm, 20mL Vials for CTC PAL, Long Neck	97188	97190
22.5x75.5mm, 20mL Vials, for SPME**	99097	99099
<i>Bevel Top, Flat Bottom, Clear Glass</i>		
23x75mm, 20mL Vials	99136	99138
23x46mm, 10mL Vials	98792	98794
22x38mm, 6mL Vials	99132	99134
<i>Bevel Top, Round Bottom</i>		
23x75.5mm, 20mL Vials, Clear	98788	98790
23x75.5mm, 20mL Vials, Amber	99077	99093
22.5x46mm, 10mL Vials, Clear	98938	98676
22x38.25mm, 5mL Vials, Clear	99056	99058
<i>Shimadzu® Headspace Vials</i>		
30x60mm, 27mL, Clear Vials	98093	98546
<i>Tekmar® Headspace Vials</i>		
18x50mm, 9mL, Clear Vials, 125/pk	98098*	98548
18x65mm, 12mL, Clear Vials, 125/pk	98104*	98877
23x75.5mm, 20mL, Clear Vials	95128	95137
<i>Screw Thread Headspace Vials for CTC PAL***</i>		
20mL Clear	99065	99069
20mL Amber	99068	99074
10mL Clear	99070	99072
10mL Amber	99078	99075

*Correct quantity specified in description.

**SPME vial has thicker glass top so cap with thinner septum will crimp tightly.

***New units only. Older models have weak magnets.

Cross Reference of Headspace Vials to Autosamplers

Instrument manufacturers recommend use of various vial shapes for best results with their analytical systems so we offer all of the vial shapes available.

Headspace Vials** and Corresponding Autosamplers

Recommended For Autosampler	Part No.	Vial Description
PerkinElmer® HS6	99056	5mL Bevel Top/Bound Bottom
Carlo Erba HS250/HS800; CTC500;	98938	10mL Bevel Top/Round Bottom
Fisons HS500/HS800; Chrompack™ 9020/25		
PerkinElmer® HS40/HS100/101	98788	20mL Bevel Top/Round Bottom
Tekmar® 7000 Series	95128	20mL Bevel Top/Round Bottom
CTC PAL	97188	20mL Flat Top/Round Bottom
Carlo Erba HS850; Dani HS86.50/HS39.5;	6655,6636	10mL, 20mL Flat Top/Flat Bottom
Fisons HS850; Hewlett-Packard HS 7694		
SPME	99097	20mL, Magnetic Cap
Shimadzu®	98093	27mL, 30x60mm
CTC PAL, Gerstel	99065/99070	Screw Thread Magnetic Cap
	99065/99070	Screw Thread Magnetic Cap

**This list is only a guide to the most popular vial and autosampler combinations. Many instruments will allow use of other combinations of flat or beveled tops with flat or rounded bottoms. If a particular type of vial is required for your instrument, the information should be provided by your autosampler or instrument manufacturer.

20mm Seals and Septa for Headspace Vials

- Increased selection of septa in aluminum, pressure release (PR), or magnetic seals
- Now available in convenience kits with headspace vials and pressure release caps

20mm Polyethylene Seal

Low cost, polyethylene seal for rinse vials or low pressure analysis. No crimping is required.



Types of Aluminum Seals



Center Hole



Pressure Release (PR)



Center Tear-Off



Tear-Away

Magnetic Caps



5mm Center Hole



8mm Center Hole

Types of Septa



Aluminum Faced/Silicone



Silicone or PTFE/Silicone



PTFE Faced/Butyl Molded Septum
(Pharma-Fix Septum)

Stoppers



20mm Seals and Septa for Headspace Vials

Description	Qty.	Part No.	Qty.	Part No.
<i>Polyethylene Seal</i>				
with PTFE/Silicone Septum—5/45mil	100	95586	1000	95576
<i>Aluminum Seals, Open Center Hole with Septa</i>				
Seal, PTFE/Butyl Rubber Septum	100	98801	500	98552
Seal, PTFE/Silicone Septum—10/50mil	100	95756	1000	95758
Seal, PTFE/Silicone Septum—125mil	100	95587	1000	95577
Seal, PTFE/Chlorobutyl Septum	100	95584	1000	95578
Seal, Aluminum/Silicone Septum	100	98687	1000	98689
Seal, Black Butyl Rubber Septum	100	98683	1000	98685
Center Tear-Off Seal, Butyl Septum	72	98841	10x72	98550
<i>Specialty Seals with Septa</i>				
Seal with Pharma-Fix Septum	100	6689	1000	98898
PR Seal, PTFE/Silicone Septum—118mil	100	95581	1000	95579
PR Seal, PTFE/Gray Butyl Septum—118mil	100	95590	1000	95580
PR Seal, Aluminum/Silicone Septum—118mil	100	98691	1000	98693
Magnetic*, 5mm Center, PTFE/Silicone Septum—118mil	100	95594	1000	95588
Magnetic*, 8mm Center, PTFE/Silicone Septum—118mil,	100	95139	1000	95143
Magnetic*, 5mm Center, PTFE/Gray Butyl Septum—118mil	100	95592	1000	95582
Magnetic*, 8mm Center, PTFE/Gray Butyl Septum—118mil	100	95156	1000	95189
Magnetic Seal for SPME Vial, PTFE/Silicone Septum 1.5mm	100	99102	1000	99106
Magnetic Seal for SPME, Fluoroelastomer Polymer Septum, 1.0mm	100	99104	1000	99107
<i>Aluminum Seals without Septa</i>				
Standard Seals, 10mm Center Hole	144	66381	1000	89075
Tear-Away Seals, Silver	144	66501	10x144	98805
Silver, Center Tear-Off Seal	144	66440	10x144	98803
Red, Center Tear-Off Seal	144	66441	10x144	66418
Blue, Center Tear-Off Seal	144	66442	10x144	66419
Green, Center Tear-Off Seal	144	66443	10x144	66425
Gold, Center Tear-Off Seal	144	66444	10x144	66426
Magnetic Tinplate Seal*, 5mm Center	100	98532	1000	98534
<i>Septa for 20mm Aluminum Seals</i>				
Red Butyl Septum	100	98695	1000	98697
Red Silicone Septum	72	98536	10x72	98538
PTFE/Silicone Septum—10/90mil	72	95313	10x72	98809
PTFE/Gray Butyl Septum	72	98540	10x72	98542
Aluminum Faced/Silicone—60mil	72	98665	10x72	98667
<i>Stoppers for 20mm Crimp Top Vials</i>				
Natural Rubber Stoppers	72	95304	1000	95255
Butyl Rubber Stoppers	72	95305	1000	95256
Hycar Rubber Stoppers	72	6683	10x72	98813
<i>Magnetic Screw Thread Caps with Septa for Screw Thread Headspace Vials</i>				
White PTFE/Blue Silicone Septum, 1.3mm	100	99071	1000	99081
PTFE/ Red Butyl Septum, 1.6mm	100	99073	1000	99083
Blue PTFE/White Silicone Septum, 1.5mm	100	99076	1000	99091
Fluoroelastomer Polymer, 1.0mm	100	99079	1000	99086

*Magnetic Seals are used with CTC and Carlo Erba autosamplers.

Specialty Autosampler Vials



4718
8x40mm



4719
8x30mm



4722
7x32mm



4720
7x40mm

Shimadzu® ASI-5000



4723
5mL Vial 5mL Tube

DuPont® Vials



4724
4mL 8mL

Specialty Autosampler Vials

Description	Qty.	Part No.	Qty.	Part No.
<i>8x40mm WISP™ Crimp Style Vials (Use 8mm Closures Below)</i>				
1.0mL Clear Vial	125	98799	1000	98035
1.0mL Clear Taper Vial	500	97269	1000	98496
<i>8x30mm Crimp Top Vials (Use 8mm Closures Below)</i>				
0.5mL Clear, Flat Bottom	200	98819	1000	98823
0.5mL Amber, Tapered Bottom	—	—	500	97260
Sleeve for Tapered Vial (98183)	50	98146	—	—
<i>7x32mm Crimp Top Vials (Use 8mm Closures Below)</i>				
500µL Amber, Tapered Bottom	—	—	500	97264
700µL Amber, Round Bottom	125	98403	500	98411
Sleeve for 7x32mm Vials	40	98415	—	—
<i>7x40mm Crimp Top Vials (Use 8mm Closures Below)</i>				
700µL Clear, Tapered Bottom	125	98148	1000	98150
700µL Amber, Tapered Bottom	200	98894	1000	95171
800µL Clear, Flat Bottom	200	98043	1000	98045
800µL Amber, Flat Bottom	200	98896	1000	95170
<i>6x32mm Crimp Top Vials (not shown) (Use 8mm Closures Below)</i>				
6x32mm Tapered, 0.2mL	100	94470	1000	94472
6x32mm Round, 0.3mL	100	94450	1000	94463
Black Support Sleeve for HP1090A	20	94455	—	—
White Support Sleeve for HP1050, 7673A	20	94460	—	—
<i>Miscellaneous Vials, Clear Glass (not shown) (Use 11mm Seals)</i>				
12x40mm, Use 11mm Seal	100	98273	1000	98570
10x32, 0.9mL, Use 11mm Seal	500	98226	5x200	98572
Support Sleeve for 98226	100	98217	—	—
<i>Alcott Micromeritics Vials (not shown)</i>				
8x35mm, Clear Shell Vial with Plugs, 1mL	200	98903	1000	50303400
<i>Shimadzu® Autosampler Vials and Tubes</i>				
Vial, 12x96mm, 5mL, 10/425 Threads	100	98187	1000	98564
Tube, 12x96mm, 5mL, No Cap Required	100	98375	1000	98379
<i>DuPont® Autosampler Vials (Use 13/425 Screw Cap)</i>				
13x65mm, 4mL, 13/425 Threads	125	98821	8x125	98566
13x100mm, 8mL, 13/425 Threads	125	98250	8x125	98568

vials

8mm Closures



4743
Aluminum Seals with Septa



4744
Polypropylene Snap Seal

8mm Closures

Description	Qty.	Part No.	Qty.	Part No.
<i>Aluminum Seals with Septum</i>				
Silver Seal with PTFE/Butyl Rubber Septum	100	94831	1000	95172
Silver Seal with PTFE/Silicone Septum	100	94832	1000	94833
Silver Seal with PTFE/Silicone/PTFE Septum	100	94251	1000	94253
Silver Seal with Black Fluoroelastomer Polymer Septum—50mil	100	94834	1000	94835
Polypropylene Snap Seal	100	83122	1000	83130

Silanized Glassware



4711

tech tip

Use of silanized glassware can often improve the separations of polar compounds such as antibodies, amines, pesticides, phenols, and proteins. Pharmaceutical compounds in solution and metabolites are especially sensitive and often absorb to the walls of an untreated glass container destroying any quantitative value the solution might have.

Our HMDS, high temperature silanization process eliminates active sites and prevents sample loss or degradation.

more info

Convenience kits simplify ordering with one part number to remember. Kits provide both vials and caps for a perfect fit every time.



4932

Silanized Vials

Description	Qty.	Part No.
<i>12x32mm Vials</i>		
Clear, Standard Mouth, 4mm i.d., 8/425 Thread	100	951911
Amber, Standard Mouth, 4mm i.d., 8/425 Thread	100	951941
Clear, Wide Mouth, 6mm i.d., 10/425 Thread	100	981331
Amber, Wide Mouth, 6mm i.d., 10/425 Thread	100	981351
Clear, R.A.M.™ Robotic, 6mm i.d., 9mm Thread	100	953861
Amber, R.A.M.™ Robotic, 6mm i.d., 9mm Thread	100	953881
<i>8x40mm Shell Vials</i>		
Clear	100	886101
<i>15x45mm Vials</i>		
Clear, 13/425 Thread	100	981101
Amber, 13/425 Thread	100	981201

more info

See individual product pages for a complete listing of closure options.

Silanized Inserts and Specialty Vials

Description	Qty.	Part No.
<i>Limited Volume Inserts for Vials</i>		
100µL for 12x32 Standard Mouth	100	952018
250µL for 12x32 Wide Mouth	100	983228
250µL with PE Bottom Spring for Wide Mouth	100	99060
100µL for 1mL WISP™ 96 Style Vials, 8x40	100	989008
300µL for 15x45 WISP™ Style Vials	100	981188
<i>Silanized Culture Tubes</i>		
13x100mm Culture Tubes	1000	985911
10x75mm Culture Tubes	1000	985901
12x75mm Culture Tubes	1000	985871
16x100mm Culture Tubes	1000	985951
<i>Special Silanized Vials</i>		
300µL Crimp Top Microvials, 8mm Seals with PTFE/Butyl Septa	100	944508

Silanized Vial Kits

Description	Qty.	Part No.
<i>12x32mm (2mL) Silanized Screw Cap Vial kits</i>		
Clear, Standard Mouth Vials, 8/425 Caps, PTFE/Silicone Septa	100	72666
Amber, Standard Mouth Vials, 8/425 Caps, PTFE/Silicone Septa	100	72670
Clear, Wide Mouth Vials, 10/425 Caps, PTFE/Silicone Septa	100	981338
Amber, Wide Mouth Vials, 10/425 Caps, PTFE/Silicone Septa	100	981358
Clear, R.A.M.™ Robotic Vials, 9mm Caps, PTFE/Silicone Septa	100	953868
Amber, R.A.M.™ Robotic Vials, 9mm Caps, PTFE/Silicone Septa	100	895388
<i>1mL WISP™ Style 96 Silanized Vial Kit</i>		
Clear Vials with Clear Snap Plugs	100	982108
<i>15x45mm (4mL) Silanized Screw Thread Cap Vial Kits</i>		
Clear Vials, 13/425 Caps, PTFE/Silicone Septa	100	72676
Amber Vials, 13/425 Caps, PTFE/Silicone Septa	100	72680



4741

related products

Custom Silanization Service
Have we missed a vial or tube size that you need? Call to inquire about custom silanization for any vial or tube size that you need for your application, C-8500.

Racks and Storage Containers

Polypropylene Vial Storage Racks

- Choice of sizes to fit 8 to 28mm o.d. vials
- Autoclavable
- Stackable



Polypropylene Vial Storage Racks

Fits Vial Diameter	Holds (#Vials)	Description	Qty.	Part No.
8mm	96	185mm x 127mm x 33mm	ea	94838
8mm	96	185mm x 127mm x 33mm	5	94839
12mm	50	194mm x 100mm x 23mm	ea	94874
12mm	50	194mm x 100mm x 23mm	5	94875
15mm	48	270mm x 97mm x 30mm	ea	94877
15mm	48	270mm x 97mm x 30mm	5	94878
15mm	90	327mm x 172mm x 30mm	ea	94879
15mm	90	327mm x 172mm x 30mm	5	94880
28mm	50	325mm x 171mm x 30mm/EPA	ea	94881
28mm	50	325mm x 171mm x 30mm/EPA	5	94882

Polypropylene Rack with Handle

- Stackable—empty or full
- Autoclavable



Polypropylene with Handle

Fits Vial Diameter	Holds (#Vials)	Description	Qty.	Part No.
10–33	72	9-3/8" x 4-3/8" x 3-1/2"	ea	2035
13–16	40	10" x 4-3/8" x 3-1/2"	ea	2037
16–20	40	10" x 4-3/8" x 3-1/2"	ea	2039
21–25	40	10-5/8" x 5" x 5"	ea	2041
26–30	24	11-3/4" x 5" x 3-3/4"	ea	2043

Metal Storage Cabinet

- 9-drawer metal cabinet provides clean organized vial storage
- Dimensions: 11" H x 17" W x 11" D (28cm H x 43cm W x 28cm D)



metal storage cabinet

Description	Qty.	Part No.
9-Drawer Metal Storage Cabinet	ea	98934

Ampul-store

- Eliminates need to relabel or transfer open 2mL ampule contents
- Minimizes sample odors in the lab

To use: Break off the ampule top. Place the ampule in the Ampul-store and attach cap. Inject through the open top screw cap/stopper to remove sample.



Ampul-store

Description	Qty.	Part No.
2mL Silanized Amber Ampules	36	72690
Ampul-store for 2mL Ampules	5	98932

The Ampule Cracker

Slip the Ampule Cracker over the top at the prescored position, snap it, and discard both the ampule top and the safety collar to prevent contamination.



Ampule Cracker

Description	Qty.	Part No.
Ampule Cracker for 1–4mL Ampules	100	01111

Stretch-it—PTFE Sealing Tape

- Provides a chemically resistant cover for reactions in progress
- Eliminates deteriorated foil and paraffin film covers
- 108ft per roll

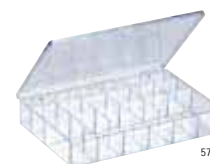


Stretch-it-PTFE Sealing Tape

Description	Qty.	Part No.
1/2" Wide	ea	3241
3/4" Wide	ea	3243
1" Wide	ea	3245
3" Wide	ea	3247
4" Wide	ea	3248
5" Wide	ea	3249

Plastic Storage Boxes

- Convenient accessible storage of small parts
- Available with 1, 9, or 18 compartments



Plastic Storage Boxes

Description	Qty.	Part No.
1 Compartment, 9" x 5" x 2"	ea	98928
9 Compartment, 8 of (1-3/8" x 1-5/8") 1 of (1-1/8" x 3-1/4")	ea	6264
18 Compartment, 12 of (2" x 2") 6 of (2" x 4-3/16")	ea	6266

Racks and Storage Containers

The Polypropylene Snap Rack™

- Stores vials and caps together
- Stackable



4955

Polypropylene Snap Rack™

Description	Qty.	Part No.
8mm Snap Rack™ Tray, Holds 96 Vials	ea	95076
12mm Snap Rack™ Tray, Holds 50 Vials	ea	95086

VialTainer Storage Box

- Clear polystyrene box
- Designed for use with autosampler vials



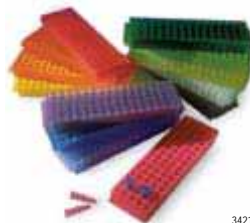
3428

VialTainer Storage Box

Fits Vial Diameter	Holds (#Vials)	Description	Qty.	Part No.
12mm	72	Small, 189x94x62mm	4	2049
15mm	40	Large, 189x94x62mm	4	2051

Freezer Racks

- Hold 80 microcentrifuge tubes
- Autoclavable
- Polypropylene racks



3421

Freezer Racks

Description	Qty.	Part No.
Racks, 1 of ea: Red, Blue, Orange, Green, Yellow	5	7363

Floating Racks

- Polyfoam racks hold multiple tube sizes
- Ideal for water baths



3413

Floating Racks

Description	Qty.	Part No.
Small, Hold 0.5 or 0.25mL Tubes	3	7320
Medium, Hold 0.5 and 1.5mL Tubes	3	7322
Large, Hold 15 and 50mL Tubes	3	7324
Assorted, 1 each of Small, Medium, and Large	3	7318

Polypropylene Gridded Boxes in Neon Colors

- Hold either 50 or 100 12x32mm vials
- Available in blue, green, orange, pink, yellow, and clear for colorful storage and identification



3697

Specifications

Raised Edges Provide Non-Slip, Stackable Storage with Writing Panel on Lid Front for i.d.

Alpha-Numeric Code on Grids for Easy Sample i.d.
Hinged Lid with Secure Snap Clasp

Rated to -90°C, Ideal for Freezer or Room Storage

Dimensions: 100 Grid—2.1" H x 6.0" W x 5.5" L
(53mm H x 152mm W x 140mm L)
50 Grid—2.1" H x 3" W x 5.5" L
(53mm H x 76mm W x 140mm L)

Neon Storage Boxes

Fits Vial Diameter	Holds (#Vials)	Description	Qty.	Part No.
<i>To Hold 100 Vials</i>				
12mm	100	Clear	5	95129
12mm	100	Blue Neon	5	95131
12mm	100	Green Neon	5	95132
12mm	100	Orange Neon	5	95133
12mm	100	Pink Neon	5	95134
12mm	100	Yellow Neon	5	95135
12mm	100	Assorted, 1 of ea/5 Colors	5	95005
<i>To Hold 50 Vials</i>				
12mm	50	Clear	5	95029
12mm	50	Blue Neon	5	95106
12mm	50	Green Neon	5	95027
12mm	50	Orange Neon	5	95028
12mm	50	Pink Neon	5	95089
12mm	50	Yellow Neon	5	95108
12mm	50	Assorted, 1 of ea/5 Colors	5	95008

Multi-Use Vial Rack System

- Increased spacing around vials for easy sample access
- PETG trays snap easily into the polypropylene frame
- Holder and trays sold separately



4954

Multi-Use Vial Rack System

Fits Vial Diameter	Holds (#Vials)	Description	Qty.	Part No.
—	—	Universal Tray Holders	5	98600
5mm	25	Insert Trays, 98x105mm	5	98671
7mm	25	Insert Trays, 98x105mm	5	98673
8mm	25	Insert Trays, 98x105mm	5	98675
12mm	25	Insert Trays, 98x105mm	5	98677
15mm	25	Insert Trays, 98x105mm	5	98679

Sampling Handling Accessories

Block Heaters

- Use to control reaction temperatures
- Use solid block as hot plate or drill to fit vials



The block heater has separate high and low thermostats and has an on-off switch and pilot light. The low setting is for ambient to 60°C, while the high setting covers the 50 to 130°C range. The heater measures 3" H x 5" W x 8" L (7.6cm H x 12.7cm W x 20.3cm L).

All of the blocks listed are 2" H x 2-15/16" W x 3-3/4" L (5.1cm H x 7.5cm W x 9.5cm L) and are interchangeable. Wells are 1.75" (44cm) deep with rounded bottoms.

Block Heaters

Description	Qty.	Part No.
Temp-Block*, 110V	ea	9707
Temp-Block*, 220V	ea	97071
Heating Block, 20x13.5mm Holes	ea	9708
Heating Block, 12x17.5mm Holes	ea	9709
Heating Block, 8x20.5mm Holes	ea	9710
Heating Block, 6x25.4mm Holes	ea	9711
Heating Block, Solid	ea	9711S
Thermometer, -20 to 150°C	ea	9711T

*Order Temp-block and Heating Blocks separately.

related products

Looking for gas sampling bags and other gas sampling accessories? See pages 276–279.



Vacuum Bottles with Septum Ports

- Prepare gaseous calibration blends
- Easy sampling with a syringe
- Measure volatiles in packaging materials
- Prepare coated packings
- Wide-mouth accessibility



Vacuum Bottles with Septum Ports

Description	Qty.	Part No.
170cc, 2" Mouth, 2" Diameter, 5.5" Height	ea	8089
390cc, 2" Mouth, 2" Diameter, 6.5" Height	ea	8090
770cc, 3" Mouth, 3" Diameter, 10" Height	ea	8091
1350cc, 3" Mouth, 3" Diameter, 12" Height	ea	8092
2300cc, 3" Mouth, 3" Diameter, 9" Height	ea	8093
<i>Replacement Parts for Vacuum Bottles</i>		
Septa, Red Silicone, 6mm o.d. x 8mm	12/pk	7000
Septa-Out (Removal Tool)	ea	6412
Replacement O-rings, 2"	ea	8087
Replacement O-rings, 3"	ea	8088

Diazomethane Generators

Diazomethane is used to methylate acidic compounds for analysis by gas chromatography. It offers the advantages of clean and quantitative reactions but it is highly toxic and explosive. Instructions for use are included with each unit.

Note: Always use appropriate safety precautions when handling and preparing diazomethane and its solutions.



Diazomethane Generators

Description	Qty.	Part No.
Diazomethane Generators (Milli-Mole Size)	ea	9559
Replacement PTFE/Silicone Septa	72	95242

Crimpers and Decappers

Adjustable Hand Crimper

- Adjustable block corrects for differences in septum thicknesses

The Adjustable Crimper has an adjustable pressure block in the crimper head that allows crimping of liners with a thickness range of 0.25 to 3.0mm. The unit looks like the standard hand crimper but it is supplied with an allen wrench and special instructions for making adjustments.

Adjustable Crimper Instructions

The crimper has an adjustment feature which will allow it to be used with a variety of septa, discs, stoppers or lined caps. The user may adjust the stroke or movement for each application as needed.

Adjustment Method:

- Hold crimper with jaws up, notice hex socket screw.
- Insert hex wrench into screw socket.
- For looser septa, turn screw clockwise 1/8" turn. For tighter septa, turn screw counter clockwise 1/8" turn.



Hand Crimper

- Permits minor handle pressure adjustments
- Works best for seals with 40–50mil liners



Hand Decapper

- Removes crimped seals from vials



Plier Decapper

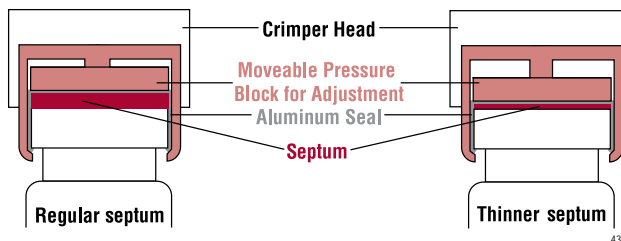
- Inexpensive tool to remove sealed caps



tech tip

What's special about the adjustable hand crimpers?

The new design has an adjustable pressure block that corrects for differences in septum thickness and provides a tighter seal. Crimping is accomplished by placing the crimper head over the aluminum seal and squeezing the handle.



Crimpers and Decappers

Volume	Description	Qty	Part No.
<i>Adjustable Hand Crimpers for Crimp Top Vials</i>			
11mm	Hand Crimper	ea	60041
13mm	Hand Crimper	ea	60043
20mm	Hand Crimper	ea	60045
<i>Hand Crimpers for Crimp Top Vials</i>			
8mm	Hand Crimper	ea	666008
11mm	Hand Crimper	ea	666011
13mm	Hand Crimper	ea	666013
20mm	Hand Crimper	ea	666020
<i>Hand Decappers for Crimp Top Vials</i>			
8mm	Hand Decapper	ea	98709
11mm	Hand Decapper	ea	98711
13mm	Hand Decapper	ea	98713
20mm	Hand Decapper	ea	98719
<i>Plier Decappers for Crimp Top Vials</i>			
8mm	Plier Decapper	ea	6662
11mm	Plier Decapper	ea	6660
13mm	Plier Decapper	ea	6661
20mm	Plier Decapper	ea	6663