

VWR[®]

autosampler vials, inserts, and closures



VWR® autosampler vials, inserts, and closures - the complete line of VWR vials for chromatography

Vial choices include: crimp-top, snap-cap, and screw-top vials with a selection of closures. Refer to the autosampler compatibility table on pages 14-15 to determine which vials, closures, and inserts will work on your specific autosampler unit.

featured products



PLASTIC VIALS

- High clarity plastic vials for easy sample viewing
- Low extractable polypropylene provides broad compatibility and low non-specific binding
- 9mm Screw-Thread and Crimp/Snap closure options available



MAGNETIC CLOSURE HEADSPACE VIALS

- Screw-thread magnetic headspace vials offer tool-free convenience
- Excellent sealing characteristics
- Steel magnetic caps for CTC/LEAP/Gerstel autosamplers



CERTIFIED 9mm SCREW-THREAD KITS

- Lot-tested including HPLC and GC analysis for 9 critical parameters
- Certificate of conformance included in every pack
- Kits include 100 vials and 100 bonded cap/septum



Table of contents

8mm standard opening screw-thread
Page 4

9mm wide opening screw-thread
Page 5-6

10mm wide opening screw-thread
Page 7

11mm standard crimp-top
Pages 8-9

11mm wide opening crimp-top
Page 8-9

Manual crimpers & decappers
Page 9

11mm wide opening snap-cap
Page 10

4ml screw-thread
Page 11

1ml shell vials
Page 11

Screw-thread headspace magnetic
Page 12

20mm headspace crimp
Page 12

Septum selection guide
Page 13

Autosampler compatibility
Page 14-15

Vial matching chart
Page 16-17

VWR® 8mm STANDARD OPENING SCREW-THREAD VIALS

2ml, 12X32mm, 8mm STANDARD OPENING SCREW-THREAD VIALS AND INSERTS

- 8-425 thread finish
- Vials feature a write-on patch with graduation for convenient sample identification
- Superior quality borosilicate glass
- Polyspring inserts are self-aligning and provide a cushion against needle contact
- Kits include 100 vials and 100 caps with pre-assembled septa

RECOMMENDED FOR THE FOLLOWING INSTRUMENTS:

- Beckman
- CTC
- Gilson
- Shimadzu
- VWR/Hitachi
- For autosampler compatibility
- Look on pages 14-15



VWR® STANDARD OPENING SCREW-THREAD VIALS AND INSERTS

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Pk	Cat. No.
8-425 Screw-Thread Vial	Clear	No	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<110	1000	548-0018
	Clear	Yes	12 x 32	Flat Bottom	2,0 ml	1,5 ml	<110	1000	548-0420
	Amber	No	12 x 32	Flat Bottom	2,0 ml	1,5 ml	<110	1000	548-0448
	Amber	Yes	12 x 32	Flat Bottom	2,0 ml	1,5 ml	<110	1000	548-0019
200 µl Flat Bottom Insert	Clear	-	5 x 31	Flat Bottom	300 µl	260 µl	<8	1000	548-0780
150 µl Spring Insert	Clear	-	5 x 29	Pulled point	200 µl	150 µl	<1	1000	548-0083
100 µl Conical Self Aligning	Clear	-	5 x 31	Conical	250 µl	200 µl	<2	1000	548-0308

VWR® 8-425 SCREW-THREAD CAPS AND SEPTA

Description	Cap colour	Cap Material	Septum	Hardness *Shore	Thickness, mm	Pk	Cat. No.
8 mm Open Top Cap, 5,5mm Hole	Transparent	Polyethylene	TEF transparent/ Nat. Rubber red-orange	60°	1	1000	548-0014

VWR® STANDARD OPENING SCREW-THREAD VIAL CONVENIENCE KITS

Kit Type	Glass	Patched	Cap colour	Septum	Pk	Cat. No.
Unassembled Kit	Clear	No	Black	Red PTFE/White Silicone	1000	548-0175
Assembled Kit	Clear	No	Black	Red PTFE/White Silicone	1000	548-1420

VWR® 9mm WIDE OPENING SCREW-THREAD VIALS

2ml, 12X32mm, 9mm WIDE OPENING SCREW-THREAD VIALS AND INSERTS

- Write-on patch with graduation for convenient sample identification
- Wide neck opening design, allows easy filling
- Superior quality borosilicate glass
- Spring inserts are self-aligning and provide a cushion against needle contact

RECOMMENDED FOR MOST BRANDS OF AUTOSAMPLERS:

- For autosampler compatibility look on pages 14-15



VWR® 9mm WIDE OPENING SCREW-THREAD VIALS AND INSERTS

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µl	Pk	Cat. No.
9 mm Screw-Thread Vial	Clear	No	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<120	1000	548-1420
	Clear	No	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<120	100	548-8011
	Clear	Yes	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<120	1000	548-0029
	Clear	Yes	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<120	100	548-8012
	Amber	Yes	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<120	1000	548-0030
	Amber	Yes	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<120	100	548-0013
	Polypropylene	No	12 x 32	Conical	400 µl	250 µl	<4	1000	548-0440
	Clear	Yes	12 x 32	Flat Bottom	1,9 ml	1,5 ml	<120	1000	548-1524
300 µl Spring Insert	Clear	-	6 x 31	Conical	375 µl	250 µl	<1	1000	548-0002
400 µl Flat Bottom Insert	Clear	-	6 x 31	Flat Bottom	500 µl	450 µl	<25	1000	548-0001



VWR® 9mm SCREW-THREAD CAPS AND SEPTA

Description	Cap Colour	Cap Material	Septum	Hardness °Shore	Thickness, mm	Pk	Cat. No.
9 mm Open Top Cap, 6 mm Hole	Black	Polypropylene	PTFE beige/Red Rubber	45°	1	1000	548-3298
	Blue	Polypropylene	PTFE beige/Red Rubber	45°	1	100	548-8001
	Blue	Polypropylene	Red Rubber red-orange/TEF transparent	60°	1	1000	548-0086
	Blue	Polypropylene	Natural rubber red-orange/TEF transparent	60°	1	100	548-8000
	Black	Polypropylene	Red PTFE/White Silicone/Red PTFE	45°	1	1000	548-0785
	Blue	Polypropylene	Red PTFE/White Silicone/Red PTFE	45°	1	1000	548-0087
	Black	Polypropylene	Red PTFE/White Silicone	55°	1	1000	548-0786
	Blue	Polypropylene	Red PTFE/White Silicone	55°	1	1000	548-0085
	Blue	Polypropylene	Red PTFE/White Silicone	55°	1	100	548-8002
	Green	Polypropylene	Red PTFE/White Silicone	55°	1	1000	548-3179
	Red	Polypropylene	Red PTFE/White Silicone	55°	1	1000	548-0381
	Yellow	Polypropylene	Red PTFE/White Silicone	55°	1	1000	548-0162
	Black	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1	1000	548-0788
	Blue	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1	1000	548-0088
	Blue	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1	100	548-8003

VWR® CERTIFIED 9MM SCREW-THREAD VIAL AND CLOSURE CONVENIENCE KITS

- Lot-tested including HPLC and GC analysis for nine critical parameters
- Vial dimensions verified for height, diameter and bottom thickness
- Cap/septum tested for sealing and residue by GC headspace
- HPLC tested for non-volatile residue
- Certificate of conformance included in every pack
- Convenience Kits include 100 vials and 100 bonded cap/septum



Description	Glass	Patched	Cap Colour	Septum	Pk	Cat. No.
Convenience Kit, Certified 9 mm Wide	Clear	Yes	Blue	Red PTFE/ White Silicone	1000	548-1488
Opening Screw Vial, 2 ml	Amber	Yes	Black		1000	548-1489

VWR® SCREW-THREAD VIAL AND CLOSURE CONVENIENCE KITS

- Save time during sample preparation
- Reduce the risk of contamination
- Clear trays make it easy to keep track of available supplies without opening containers
- Unassembled kits include 100 vials and 100 caps with pre-assembled septa
- Reusable two-compartment trays protect vials and closure while keeping matching supplies together
- Assembled kits include 100 vials with pre-attached caps and septa



Description	Glass	Patched	Cap Colour	Septum	Pk	Cat. No.
Unassembled Kit						
Screw-Thread Vial and Closure Convenience Kits	Clear	No	Blue	Beige PTFE/Red Rubber	1000	548-1421
	Clear	No	Black	RedRubber/PTFE beige	1000	548-1422
	Clear	No	Black	Red PTFE/White Silicone/Red PTFE	1000	548-1423
	Clear	No	Black	Red PTFE/White Silicone	1000	548-1424
	Clear	No	Blue	Red PTFE/White Silicone	1000	548-0177
	Clear	No	Blue	Blue PTFE/White Silicone, Pre-slit	1000	548-0908
	Clear	Yes	black	PTFE natural / Silicone dark blue-translucent	1000	548-2498
	Assembled Kit					
Clear	No	Blue	Silicon white / PTFE red	1000	548-1056	

VWR® 10mm WIDE OPENING SCREW-THREAD VIALS

2ml, 12X32mm 10mm WIDE OPENING SCREW-THREAD VIALS AND INSERTS

- 10-425 thread finish
- Vials feature a write-on patch with graduation for convenient sample identification
- Wide-neck opening design allows for easy filling; requires inserts with a diameter of 6mm
- Polyspring inserts are self-aligning and provide a cushion against needle contact

RECOMMENDED FOR THE FOLLOWING INSTRUMENTS:

- PerkinElmer
- Shimadzu
- Waters

For autosampler compatibility look on pages 14-15



548-0385



548-0386



548-0387



548-0002



548-1381



548-0392



548-0390

VWR® 10mm WIDE OPENING SCREW-THREAD VIALS AND INSERTS

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Pk	Cat. No.
10-425 Screw-Thread Vial	Clear	No	12 x 32	Flat Bottom	2,0 ml	1,5 ml	<120	1000	548-0385
	Clear	Yes	12 x 32	Flat Bottom	2,0 ml	1,5 ml	<120	1000	548-0386
	Amber	Yes	12 x 32	Flat Bottom	2,0 ml	1,5 ml	<120	1000	548-0387
300 µl Spring Insert	Clear	-	6 x 29	Conical	300 µl	250 µl	<4	1000	548-0002
	Polypropylene	-	6 x 29	Conical	300 µl	250 µl	<4	1000	548-1381

VWR® 10-425 WIDE OPENING SCREW-THREAD CAPS AND SEPTA

- Polypropylene caps are chemically inert and suitable for most chromatography applications
- Pre-assembled caps and septa are convenient and minimize contamination from handling

Description	Cap Colour	Cap Material	Septum	Hardness °Shore	Thickness, mm	Pk	Cat. No.
10 mm Open Top Cap, 8,5mm Hole	Black	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1,5	1000	548-0392
	Black	Polypropylene	Red PTFE/White Silicone	50°	1,3	1000	548-0390

VWR® 10mm WIDE OPENING SCREW-THREAD VIAL CONVENIENCE KITS

- Recommended for Shimadzu HPLC Autosamplers
- Unassembled kits include 100 vials and 100 caps with pre-assembled septa

Description	Glass	Patched	Cap Colour	Septum	Pk	Cat. No.
Convenience Kit	Clear	Yes	Black	Red PTFE/White Silicone, Soft	1000	548-2499
	Amber	Yes	Black	Red PTFE/White Silicone, Soft	1000	548-1418

VWR® 11mm CRIMP-TOP VIALS

2ml, 12X32mm CRIMP-TOP VIALS AND INSERTS

- Superior quality borosilicate glass
- Vials feature a write-on patch with graduation for convenient sample identification
- Standard opening vials require inserts with a diameter of 5mm
- Wide neck opening design, allows easy filling, requires inserts with a diameter of 6mm
- Spring inserts are self-aligning and provide a cushion against needle contact

RECOMMENDED FOR MOST BRANDS:

For autosampler compatibility look on pages 14-15



VWR® 11mm CRIMP-TOP VIALS AND INSERTS – STANDARD OPENING

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Pk	Cat. No.
11 mm Crimp-Top, Standard Opening	Clear	No	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	1000	548-0447
200 µl Insert	Clear	-	5 x 31	Flat Bottom	300 µl	260 µl	<8	1000	548-0780
150 µl Spring Insert	Clear	-	5 x 29	Pulled point	200 µl	150 µl	<1	1000	548-0083



VWR® 11mm CRIMP-TOP VIALS AND INSERTS – WIDE OPENING

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Pk	Cat. No.
11 mm Crimp-Top Vial, Wide Opening	Clear	No	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	1000	548-0003
	Clear	No	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	100	548-8008
	Clear	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	1000	548-0004
	Clear	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	100	548-8009
	Polypropylene	No	12 x 32	Conical	400 µl	250 µl	<4	1000	548-0120
	Amber	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	1000	548-0005
	Amber	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	100	548-8010
11 mm Crimp-Top Vial 250 µl, Fused Insert	Clear	No	12 x 32	Fused Conical	390 µl	300 µl	<3	1000	548-1441
	Amber	No	12 x 32	Fused Conical	390 µl	300 µl	<3	1000	548-1472
300 µl Spring Insert	Clear	-	6 x 29	Conical	300 µl	250 µl	<4	1000	548-0002
	Clear	-	6 x 31	Flat Bottom	500 µl	350 µl	<8	1000	548-0001

VWR® 11mm CRIMP-TOP CLOSURES

- Aluminium crimp closures provide a secure leak-resistant seal
- Aluminium seals must be applied with a crimping tool
- Synthetic PTFE/Red Rubber seal is specially formulated for improved background performance



Description	Cap Colour	Cap Material	Septum	Hardness °Shore	Thickness, mm	Pk	Cat. No.
11 mm Crimp-Top, 5.5 mm Hole	Silver	Aluminium	TEF transparent/Natural Rubber red orange	60°	1	1000	548-0008
	Silver	Aluminium	TEF transparent/Natural Rubber red orange	60°	1	100	548-8004
	Silver	Aluminium	Red PTFE/White Silicone/Red PTFE	45°	1	1000	548-0007
	Silver	Aluminium	Red PTFE/White Silicone	45°	1,3	1000	548-0009
	Silver	Aluminium	Red PTFE/White Silicone	45°	1,3	100	548-8006
	Silver	Aluminium	PTFE/ Red Rubber	45°	1	1000	548-3272
	Silver	Aluminium	PTFE/ Red Rubber	45°	1	100	548-8005

VWR® 11mm CRIMP-TOP CONVENIENCE KITS

- Unassembled kits include 100 vials and 100 caps with pre-assembled septa
- Reusable two-compartment trays protect vials and closure while keeping matching supplies together
- Clear trays make it easy to keep track of available supplies without opening containers

Kit Type	Glass	Patched	Cap Colour	Septum	Pk	Cat. No.
Convenience Kit, Wide Opening Crimp-Top Vial	Clear	Yes	Silver	PTFE beige/RedRubber	1000	548-2500
	Amber	No	Silver	White PTFE/Red Rubber	1000	548-2159

VWR® MANUAL CRIMPERS & DECAPPERS

- Easy and convenient handling
- Adjustable in crimping pressure limitation by screw in handle
- Adjustable screw setting facilitates optimum crimping

Description	Size, mm	Unit	Cat. No.
Manual Crimper	11	Each	548-0071
	20	Each	548-0073
Manual Decapper	11	Each	548-0072
	20	Each	548-0074



VWR® 11mm WIDE OPENING SNAP VIALS

2ml, 12X32mm WIDE OPENING SNAP-CAP VIALS AND INSERTS

- Superior quality borosilicate glass
- Vials feature a write-on patch with graduation for convenient sample identification
- Wide-neck opening design, allows easy filling
- Spring inserts are self-aligning and provide a cushion against needle contact
- Snap vials can be used with snap caps or aluminium crimp seal closures

RECOMMENDED FOR MOST BRANDS OF INSTRUMENTS:

For autosampler compatibility look on pages 14-15



VWR® 11mm WIDE OPENING SNAP-CAP VIALS AND INSERTS

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Pk	Cat. No.
11 mm Crimp/Snap Vial	Clear	No	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	1000	548-0011
	Clear	No	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	100	548-8014
	Clear	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	1000	548-0422
	Clear	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	100	548-8015
	Amber	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	1000	548-0012
	Amber	Yes	12 x 32	Flat Bottom	2 ml	1,5 ml	<100	100	548-8016
400 µL Insert	Clear	-	6 x 29	Conical	300 µl	0,25 ml	<4	1000	548-0002
	Clear	-	6 x 31	Flat Bottom	500 µl	350 µl	<8	1000	548-0001
	Clear	Yes	12 x 32	Fused Conical	400 µl	210 µl	<1	1000	548-0424

VWR® 11mm SNAP-CAPS AND SEPTA

Description	Cap Colour	Cap Material	Septum	Hardness °Shore	Thickness, mm	Pk	Cat. No.
11 mm Snap Cap, 6mm hole	Clear	Polyethylene	TEF transparent/Nat. Rubber red-orange	60°	1	1000	548-0014
	Clear	Polyethylene	TEF transparent/Nat. Rubber red-orange	60°	1	100	548-8017
	Blue	Polyethylene	TEF transparent/Nat. Rubber red-orange	60°	1	1000	548-0433
	Clear	Polyethylene	Red PTFE/White Silicone	45°	1,3	1000	548-0016
	Clear	Polyethylene	Red PTFE/White Silicone	45°	1,3	100	548-8019
	Blue	Polyethylene	Red PTFE/White Silicone	45°	1,3	1000	548-0432
	Clear	Polyethylene	Blue PTFE/White Silicone, cross-slitted Pre-slit	55°	1	1000	548-0017
	Clear	Polyethylene	Blue PTFE/White Silicone, cross-slitted Pre-slit	55°	1	100	548-8020
	Blue	Polyethylene	Blue PTFE/White Silicone, cross-slitted Pre-slit	55°	1	1000	548-0435
	Clear	Polyethylene	Red Rubber/PTFE	45°	1,3	100	548-8018
	Clear	Polyethylene	Red Rubber/PTFE	45°	1,3	1000	548-3330

VWR® 11mm WIDE OPENING SNAP-CAP CONVENIENCE KITS

- Save time during sample preparation
- Includes 100 vials and 100 caps with pre-assembled septa
- Reusable two-compartment trays protect vials and closures while keeping matching supplies together

Kit Type	Glass	Patched	Cap Colour	Septum	Pk	Cat. No.
Convenience Kit, Wide Opening Snap-Cap Vial	Clear	No	Clear	Clear PTFE/White Silicone	1000	548-0471
	Clear	No	Clear	Clear PTFE/White Silicone	1000	548-0471

VWR® 4ml SCREW-THREAD VIALS

4ml, 15X45mm SCREW-THREAD VIALS AND INSERTS

- 13-425 thread finish
- I-D vials feature a write-on patch with graduation for convenient sample identification
- Superior quality borosilicate glass

RECOMMENDED FOR THE FOLLOWING INSTRUMENTS:

- Shimadzu
- Gilson
- Waters (Wisp 48 Position Carousel)

For autosampler compatibility look on pages 14-15



VWR® 4ml SCREW-THREAD VIALS AND INSERTS

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Pk	Cat. No.
13-425 Screw-Thread Vial	Clear	No	15 x 45	Flat Bottom	5 ml	4 ml	<400	1000	548-0051
	Clear	Yes	15 x 45	Flat Bottom	5 ml	4 ml	<400	1000	548-0509
	Amber	Yes	15 x 45	Flat Bottom	5 ml	4 ml	<400	1000	548-0510

VWR® 13-425 SCREW-THREAD CAPS AND SEPTA

Description	Cap Colour	Cap Material	Septum	Hardness °Shore	Thickness, mm	Pk	Cat. No.
13-425 Open-Top Screw Cap	White	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1,5	1000	548-2501
13-425 Thread, 8,5mm Hole	Black	Polypropylene	Red PTFE/Cream Silicone	55°	1,5	1000	548-0054

VWR® 4ml SCREW-THREAD CONVENIENCE KITS

- Unassembled kits include 200 vials and 200 caps with pre-assembled septa
- Assembled kits include 100 vials with pre-attached caps and septa
- Packaged in convenient vial trays with clear covers

Description	Glass	Patched	Cap Colour	Septum	Pk	Cat. No.
Unassembled Kit	Clear	No	Black	Red PTFE/Creme Silicone	100	548-0521

VWR® SHELL VIALS AND INSERTS

- Polyethylene SepCap with starburst center design eases syringe needle penetration
- Convenient vial kits include equal quantities of vials and caps

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Pk	Cat. No.
1 ml Shell Vial with SepCap Clear	Clear	No	8 x 40	Flat Bottom	1,25 ml	1 ml	<80	1000	548-0042

VWR® SCREW-THREAD HEADSPACE VIALS AND MAGNETIC CLOSURES

- Screw-thread magnetic headspace vials offer tool-free convenience of a screw-thread vial
- Excellent sealing characteristics that withstand high pressures of headspace applications
- Steel magnetic caps tolerate high temperatures and are suitable for use with the CTC/LEAP/Gerstel autosamplers

Description	Size	Glass	Pk	Cat. No.
Screw-Thread Headspace Vial, Round Bottom	20 ml	Clear	1000	548-0248
	20 ml	Amber	1000	548-2093
	10 ml	Clear	1000	548-0247
	10 ml	Amber	1000	548-0552



VWR® MAGNETIC CLOSURES

Description	Septa Thickness	Septum	Hardness °Shore	Pk	Cat. No.
Magnetic Screw-Thread Headspace Caps	1,5 mm	White Silicone/Blue PTFE	55°	1000	548-0245
	1,6 mm	Red Butyl/Grey PTFE	55°	1000	548-0246
	1,3 mm	White Silicone/Red PTFE	45°	1000	548-0193
	1,3 mm	Blue transparent Silicone/White PTFE	45°	1000	548-0543
	1,5 mm	White Silicone/Red PTFE, Star Slit for SPME	55°	1000	548-3339

VWR® Manual Crimpers & Decappers on page 9



548-0055



548-1994



548-0091



548-0592



548-2502



548-0059



548-0060

20mm CLEAR CRIMP SEAL HEADSPACE VIALS

Description	Capacity	O.D. x L	Top Finish	Pk	Cat. No.
Round-Bottom Vial	20 ml	23 x 76 mm	Bevel Edge	1000	548-0055
Flat Bottom Vial	20 ml	23 x 76 mm	Bevel Edge	1000	548-1994
Flat Bottom Vial	20 ml	23 x 75 mm	Square Edge	1000	548-0091

20mm CRIMP CAPS WITH 9.5mm HOLE

Thickness	Cap Colour	Cap Material	Septum	Pk	Cat. No.
3,2 mm	Silver	Aluminium	Beige PTFE/White Silicone	1000	548-0592
3 mm	Silver	Aluminium	Grey PTFE/RedRubber	1000	548-2502
3 mm	Silver	Aluminium	PTFE/Grey Butyl	1000	548-0059
3 mm	Silver	Aluminium	Clear PTFE/Grey Butyl Rubber	1000	548-0060

Septum selection guide

Septa for use with general chromatography vials

PTFE/Natural Red Rubber

PTFE Natural Red Rubber are moderately priced seals for GC and HPLC with good chemical properties. They are ideal for multiple injections due to high resealability, but not as easy to penetrate as PTFE/RR.

PTFE/High Performance Synthetic Red Rubber

PTFE Red Rubber is a highly pure synthetic red rubber septum that provides a reduced background level for specific GC applications, employing sensitive detectors such as ECD or NPD. PTFE Red Rubber has resealing characteristics similar to PTFE/Red Rubber and is pre-inserted into an aluminium seal.

PTFE/Silicone Septa: (T/S)

High-quality, lowest background/blank value, 100% synthetic pure silicone septa, for all types of chromatographic applications. Laminated to 0.005" thick PTFE for a pure, highly inert septum with excellent resealing characteristics even after repeated punctures. PTFE/Silicone septa are ideal for use in most HPLC and GC applications where resealability and purity are critical. Cleaner than Natural Rubber or Red Rubber. Available with different hardnesses (durometers) meeting requirements of various needle types.

Pre-slit PTFE/Silicone Septa

A PTFE/Silicone septum is provided with a thin 0.005" PTFE layer laminated to highly pure silicone, and slit through the center for easier needle penetration and to release the vacuum that forms when a large volume of sample is withdrawn from a vial. This septum provides chromatographic characteristics similar to that of a septum without a slit, except that the ability to withstand exposure to aggressive solvents is slightly lessened. Pre-slit septa are highly recommended for Shimadzu, Hitachi, and other autosamplers with thin gauge needles. Bonded caps: feature a PTFE/Silicone septum electrolytically bonded into the cap.

PTFE/Silicone/PTFE Septa: (T/S/T)

A layer of 0.003" thick PTFE is laminated to each side of high-purity, medium durometer silicone to form a septum that is resistant to coring, but still maintains good resealing characteristics. T/S/T septa are recommended for the most critical applications such as ultratrace analysis, where there is a longer time between injections, or for internal standard methods. T/S/T septa provide superior performance with Agilent 1050, 1090, 1100, or any autosampler employing a large diameter, blunt-tip needle.



Autosampler Compatibility Table

This table indicates the categories of vials that are compatible with various models of autosamplers. Certain autosamplers require the purchase of optional vial trays and, in few cases, programming upgrades to use all of the vials listed.

Manufacturer	Model	11mm Crimp and Snap	8-425 Screw	9mm Screw	10-425 Screw	13-425 Screw	Headspace
Agilent	1050, 1090	●		●			
	1100/1200	●		●			
	7673A/7683A	●		●			
	7693A	●	●	●		●	
	5880/5890	●		●			
	6850 (27 Pos. Tray)	●		●			
	6850 (22 Pos. Tray)	●					
	6890	●		●			
	CTC HTS+HTC PAL+CTC GC PAL	●		●			
	CTC Combi PAL						●
Beckman	501, 502/502e, 507/507e	●	●	●	●		
	Marathon, Promis	●	●	●			
	Triathlon, Standard Tray	●	●	●			●
CTC	A200S	●	●	●	●		
	A200 LC	●	●	●	●		●
	HS 500						●
CTC (LEAP)	LC PAL (216 Pos.)	●	●	●	●		●
	HTX PAL, HTC PAL, HTS PAL (54/98 Pos. Tray)	●	●	●	●		●
	HTX PAL, HTC PAL, HTS PAL (32 Pos. Tray), Combi PAL (32 Pos. Tray), GC PAL (32 Pos. Tray), Combi PAL SPME Mode (32 Pos. Tray)						●
	Combi PAL (98 Pos. Tray), GC PAL (98 Pos. Tray)	●		●			
	Combi PAL SPME Mode (98 Pos. Tray)	●		●			
	UltiMate Analytical, cylindrical, WPS-3000 SL, 120 Pos. Rack (2ml)	●	●	●	●		●
Gerstel	MPS	●	●	●		●	●
Gilson	201/202, 221/222, 231/401/232/402, Aspec, Aspec Xli, Aspec XL4		●	●			
	221XL/222XL, 223, 231XL/232XL/233XL						
	235/235P/SP 235/SP 235P		●	●			
HTA	HT200H						●
	HT250D, HT280T, HT300L	●	●	●	●		●
PerkinElmer	HT300A, HT310A, HT3000A, HT3100A, HT3200A	●	●	●	●		
	AS2000/AS2000B	●			●		
	AS-300, AS8300, Autosystem	●					
Shimadzu	LC 600, 60 vial tray	●			●		
	SIL-20A (Prominence) 105 vial tray/SIL-20AC (Prominence) 70 vial tray	●	●	●	●		
	SIL-20A/SIL-20AC (Prominence) 50 vial tray, LC2010C + LC2010A 100 Pos. Tray						●
	LC2010C + LC2010A 350 Pos. Tray						
	LC2010C + LC2010A 140 Pos. Tray	●	●	●	●		
	HSS-2B						●
Shimadzu	SIL-20AXR/SIL-20ACXR (Prominence) 175 (1-ml vials), 70 (1.5-ml vials), 50 (4-ml vials)	●	●	●		●	
	SIL-30AC(Nexera) 175 (1-ml vials), 105 (1.5-ml vials), 50 (4-ml vials)	●	●	●		●	

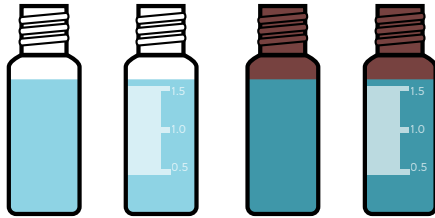
- Indicates that the vials from this category are compatible with the autosampler in most configurations.
- Indicates that a magnetic seal is required for use with the autosampler.

Manufacturer	Model	11mm Crimp and Snap	8-425 Screw	9mm Screw	10-425 Screw	13-425 Screw	Headspace
Thermo Scientific	AS1000 (TRACE GC), AS200, AS2000 90 vial tray (TRACE GC)	●	●	●			
	AS300	●	●	●			
	A13000 (II)/AS3000 (II) AS3500 (TRACE GC + FOCUS GC)	●		●			●
	A200LC, AS 100	●	●	●			
	HS250, HS500, HS800, HS 850, HS2000						●
	TriPlus (=GC PAL) (AS+ Duo)	●	●	●			●
	TriPlus HS, TriPlus SPME						●
	Surveyor (Surveyor Plus)	●	●	●			●
	Accela High Speed LC Autosampler (200 Pos.)	●	●	●			
	Accela Open Autosampler (342 Pos)	●	●	●			
VWR/Hitachi	TriPlus RSH	●	●	●			●
	TriPlus 300						●
	L2200 (LaChrom Elite)/L2200-U (LaChrom Ultra) (200 Pos. Tray), L7200 (LaChrom) (80 Pos. Tray)/L7250(LaChrom) (Pos. Tray)	●	●	●			
	655-A40 (108 Pos. Tray), L-9100, AS 2000 (50 Pos. Tray), AS 4000 (150 Pos. Tray)	●	●	●			
	5210 (Chromaster) 195 Pos (1ml), 120 Pos 1.5ml (Standard), 72 Pos. (4ml), 2 x MTP (96,384)	●	●	●		●	
Waters	AS 6000	●	●	●			
	Acquity Sample Organizer	●		●			
	Acquity/CapLC/Waters/Nano Acquity	●		●			
	Alliance HTS						
	Model 2767	●	●				
	Model 2707	●	●				
	Model 2777	●	●				
	ACQUITY™ UPLC Systems			●		●	
	Wisp 48 position					●	
	Wisp 96 position, 717, 96 Position Carousel					●	
717, 48 Position Carousel					●		
Alliance, Alliance HT Syst.	●		●	●			
Alliance GPC 2000					●		
Alliance 2790/2795, Alliance 2690/2695	●		●	●			

● Indicates that the vials from this category are compatible with the autosampler in most configurations.
 ● Indicates that a magnetic seal is required for use with the autosampler.

Vial reference chart

8mm Standard-Opening Screw-Thread Vials – 12x32mm



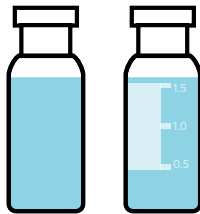
Cat. No.	548-0018	548-0420	548-0448	548-0019
Common Description	1,5 ml	1,5 ml	1,5 ml	1,5 ml
Approx. Total Capacity	1,9 ml	1,9 ml	1,9 ml	1,9 ml
Rec. Usable Volume	1,5 ml	1,6 ml	1,5 ml	1,5 ml
Residual Volume	<110 µL	<110 µl	<110 µl	<110 µl
Composition	Glass	Glass	Amber	Amber

9mm Screw Vials – 12x32mm



548-0028	548-0029	548-0452
1,5 ml	1,5 ml	1,5 ml
1,9 ml	1,9 ml	1,9 ml
1,5 ml	1,5 ml	1,5 ml
<120 µl	<120 µl	<110 µl
Glass	Glass	Clear PP

11mm Wide Opening Crimp-Top Vials



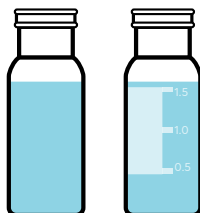
Cat. No.	548-0003	548-0004
Common Description	1,5 ml	1,5 ml
Approx. Total Capacity	2 ml	2 ml
Rec. Usable Volume	1,5 ml	1,5 ml
Residual Volume	<100 µl	<100 µl
Composition	Glass	Glass

11mm Standard-Opening Crimp Vials – 12x32mm



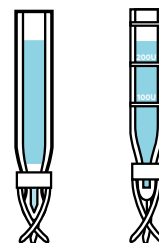
548-0447
1,5 ml
2 ml
1,5 ml
<110 µl
Glass

11mm Snap Vials – 12x32mm



Cat. No.	548-0011	548-0422
Common Description	1,5 ml	1,5 ml
Approx. Total Capacity	1,9 ml	1,9 ml
Rec. Usable Volume	1,5 ml	1,5 ml
Residual Volume	<100 µl	<100 µl
Composition	Glass	Glass

Wide Opening Microvolume Inserts



548-0002	548-0001
100 µl	200 µl
300 µl	500 µl
250 µl	350 µl
<4 µl	<8 µl
Glass	Glass

Images shown are 80% to scale

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