

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 nine critical parameters
- Certificate of conformance included in every pack
- Kits include 100 vials and 100 bonded cap/septum



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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	Cat. No.	Pack of	Case of
8-425 Screw-Thread Vial	Clear	No	12 x 32	Flat Bottom	2.0 mL	1.8 mL	<170	66020-950	100	1000
	Clear	Yes	12 x 32	Flat Bottom	2.0 mL	1.8 mL	<170	82028-420	-	1000
	Amber	No	12 x 32	Flat Bottom	2.0 mL	1.8 mL	<170	46610-736	100	1000
	Amber	Yes	12 x 32	Flat Bottom	2.0 mL	1.8 mL	<170	82028-422	-	1000
200 µL Flat Bottom Insert	Clear	-	5 x 31	Flat Bottom	250 µL	200 µL	<12	82028-448	-	1000
150 µL Spring Insert	Clear	-	5 x 29	Pulled point	200 µL	175 µL	<1	46610-702	100	-
100 µL Conical Self Aligning	Clear	-	5 x 29	Pulled point	200 µL	170 µL	<2	82028-446	100	-

VWR® 8-425 SCREW-THREAD CAPS AND SEPTA

Description	Cap Color	Cap Material	Septum	Hardness *Shore	Thickness, mm	Cat. No.	Pack of
8 mm Open Top Cap, 5.5mm Hole	Black	Polypropylene	Red PTFE/White Silicone	45°	1.3	46610-700	100

VWR® STANDARD OPENING SCREW-THREAD VIAL CONVENIENCE KITS

Kit Type	Glass	Patched	Cap Color	Septum	Cat. No.	Pack of	Case of
Unassembled Kit	Clear	No	Black	Red PTFE/White Silicone	66009-878	100	1000
Assembled Kit	Clear	No	Black	Red PTFE/White Silicone	66009-874	100	-
	Clear	No	Black Phenolic	Red PTFE/White Silicone	66009-882	100	-

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	Cat. No.	Pack of	Case of
9 mm Screw-Thread Vial	Clear	No	12 x 32	Flat Bottom	2.0 mL	1.8 mL	<170	46610-722	100	1000
	Clear	Yes	12 x 32	Flat Bottom	2.0 mL	1.8 mL	<170	46610-724	100	1000
	Amber	Yes	12 x 32	Flat Bottom	2.0 mL	1.8 mL	<170	46610-726	100	1000
	Polypropylene	Graduated	12 x 32	Flat Bottom	2.0 mL	1.5 mL	<170	89524-188	100	-
	Polypropylene	No	12 x 32	Conical	400 µL	300 µL	<2	89524-190	100	-
9 mm Fused Insert Vial	Clear	Yes	12 x 32	Insert Vial	475 µL	350 µL	<2	10781-890	100	-
9 mm Fused Insert Vial	Amber	No	12 x 32	Insert Vial	475 µL	350 µL	<2	10803-888	100	-
300 µL Spring Insert	Clear	-	6 x 31	Conical	375 µL	250 µL	<1	46610-762	100	-
	Polypropylene	-	6 x 30	Conical	325 µL	250 µL	<2	82028-450	100	-
400 µL Flat Bottom Insert	Clear	-	6 x 31	Flat Bottom	500 µL	450 µL	<25	82028-454	-	1000
350 µL Self Aligning Insert	Clear	-	6 x 31	Pulled Point	400 µL	350 µL	<4	82028-452	100	-



VWR® 9mm SCREW-THREAD CAPS AND SEPTA

Description	Cap Color	Cap Material	Septum	Hardness *Shore	Thickness, mm	Cat. No.	Pack of	Case of
9 mm Open Top Cap, 6 mm Hole	Black	Polypropylene	Ivory PTFE/Red Rubber	35°	1	46610-708	100	1000
	Blue	Polypropylene	Ivory PTFE/Red Rubber	35°	1	89239-016	100	1000
	Black	Polypropylene	Red PTFE/White Silicone/Red PTFE	45°	1	46610-710	100	1000
	Blue	Polypropylene	Red PTFE/White Silicone/Red PTFE	45°	1	89239-018	100	1000
	Black	Polypropylene	Red PTFE/White Silicone	50°	1	46610-712	100	1000
	Blue	Polypropylene	Red PTFE/White Silicone	50°	1	89239-020	100	1000
	Black	Polypropylene	Red PTFE/White Silicone, Pre-slit	55°	1	82028-424	-	1000
	Blue	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1	89239-022	100	1000
	Green	Polypropylene	Red PTFE/White Silicone	50°	1	76047-552	100	-
	Red	Polypropylene	Red PTFE/White Silicone	50°	1	76047-554	100	-
	Yellow	Polypropylene	Red PTFE/White Silicone	50°	1	76047-574	100	-

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 Color	Septum	Cat. No.	Pack of
Convenience Kit, Certified 9 mm Wide Opening Screw Vial, 2 mL	Clear	Yes	Black	Bonded Red PTFE/ White Silicone	82030-970	100
	Amber	Yes	Black	Bonded Red PTFE/ White Silicone	82030-974	100
	Clear	Yes	Gray	Bonded Clear PTFE/ Clear Silicone, Pre-slit	82030-972	100
	Amber	Yes	Gray	Bonded Clear PTFE/ Clear Silicone, Pre-slit	82030-976	100
	Clear	Yes	Blue	Red PTFE/ White Silicone	10804-054	100
	Amber	Yes	Blue	Red PTFE/ White Silicone	10804-056	100
	Clear	Yes	Blue	Blue PTFE/ White Silicone, Pre-slit	10803-884	100
	Amber	Yes	Blue	Blue PTFE/ White Silicone, Pre-slit	10803-886	100

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



Glass	Patched	Cap Color	Septum	Cat . No.	Pack of	Case of
Unassembled Kit						
Clear	No	Blue	Ivory PTFE/Red Rubber	89239-024	100	1000
Clear	No	Black	Ivory PTFE/Red Rubber	66009-858	100	1000
Clear	Yes	Black	T/S Septa	76326-138	100	-
Clear	No	Black	Red PTFE/White Silicone/Red PTFE	66009-862	100	1000
Clear	No	Black	Red PTFE/White Silicone	66009-854	100	1000
Clear	No	Blue	Red PTFE/White Silicone	89239-026	100	1000
Amber	Yes	Black	T/S Septa	76326-140	100	-
Clear	No	Blue	Blue PTFE/White Silicone, Pre-slit	89239-028	100	1000
Clear	Yes	Blue	PTFE/ Soft Durometer Silicone	89523-478	100	-
Amber	Yes	Blue	PTFE/ Soft Durometer Silicone	89523-480	100	-
Assembled Kit						
Clear	No	Blue	Ivory PTFE/Red Rubber	89239-030	100	-
Clear	No	Black	Ivory PTFE/Red Rubber	66009-856	100	-
Clear	No	Black	Red PTFE/White Silicone	66009-852	100	-
Clear	No	Black	Red PTFE/White Silicone/Red PTFE	66009-860	100	-
Clear	No	Black	PTFE/Red Rubber	66009-857	100	-
Clear	Yes	Black	T/S Septa	76326-142	100	-
Amber	Yes	Black	T/S Septa	76326-148	100	-

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



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

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Cat. No.	Pack of
10-425 Screw-Thread Vial	Clear	No	12 x 32	Flat Bottom	1.8 mL	1.5 mL	<170	82028-426	1000
	Clear	Yes	12 x 32	Flat Bottom	1.8 mL	1.5 mL	<170	82028-428	1000
	Amber	Yes	12 x 32	Flat Bottom	1.8 mL	1.5 mL	<170	82028-432	1000
300 µL Spring Insert	Clear	-	6 x 31	Conical	375 µL	0.25 mL	<1	46610-762	100
	Polypropylene	-	6 x 30	Conical	325 µL	250 µL	<2	82028-450	100
400 µL Flat Bottom Insert	Clear	-	6 x 31	Flat Bottom	500 µL	450 µL	<25	82028-454	1000
350 µL Self Aligning Insert	Clear	-	6 x 31	Pulled Point	400 µL	350 µL	<4	82028-452	100

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 Color	Cap Material	Septum	Hardness *Shore	Thickness, mm	Cat. No.	Pack of
10 mm Open Top Cap, 8.5mm Hole	Black	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1.5	82028-436	100
	Black	Polypropylene	Red PTFE/White Silicone	50°	1.3	82028-434	100

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 Color	Septum	Cat. No.	Pack of
Convenience Kit	Clear	Yes	Black	Red PTFE/White Silicone, Soft	89523-482	100
	Amber	Yes	Black	Red PTFE/White Silicone, Soft	89523-484	100

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	Cat. No.	Pack of	Case of
11 mm Crimp-Top, Standard Opening	Clear	No	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	66020-953	100	1000
	Clear	Yes	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	82028-402	-	1000
	Amber	Yes	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	82028-404	-	1000
200 µL Insert	Clear	-	5 x 31	Flat Bottom	250 µL	200 µL	<12	82028-448	-	1000
150 µL Spring Insert	Clear	-	5 x 29	Pulled point	200 µL	175 µL	<1	46610-702	100	-
100 µL Conical Self Aligning	Clear	-	5 x 29	Pulled point	200 µL	170 µL	<2	82028-446	100	-



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

Description	Glass	Patched	Dimensions, mm	Profile	Total Volume	Usable Volume	Residual Volume, µL	Cat. No.	Pack of	Case of
11 mm Crimp-Top Vial, Wide Opening	Clear	No	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	66010-539	100	1000
	Clear	Yes	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	46610-740	100	1000
	Polypropylene	No	12 x 32	Conical	475 µL	300 µL	<2	82028-412	-	1000
	Amber	Yes	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	46610-742	100	1000
11 mm Crimp-Top Vial 250 µL, Fused Insert	Clear	Yes	12 x 32	Fused Conical	500 µL	350 µL	<2	82028-408	100	-
	Amber	Yes	12 x 32	Fused Conical	500 µL	350 µL	<2	82028-410	100	-
300 µL Spring Insert	Clear	-	6 x 30	Conical	375 µL	250 µL	<1	46610-762	100	-
	Polypropylene	-	6 x 30	Conical	325 µL	250 µL	<2	82028-450	100	-
400 µL Insert	Clear	-	6 x 31	Flat Bottom	500 µL	450 µL	<25	82028-454	-	1000
350 µL Self Aligning Insert	Clear	-	6 x 31	Pulled Point	400 µL	350 µL	<4	82028-452	100	-

VWR® 11mm CRIMP-TOP CLOSURES

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



Description	Cap Color	Cap Material	Septum	Hardness °Shore	Thickness, mm	Cat. No.	Pack of	Case of
11 mm Crimp-Top, 5.5 mm Hole	Silver	Aluminum	Clear PTFE/Natural Red Rubber	60°	1	46610-744	100	1000
	Silver	Aluminum	Red PTFE/White Silicone/Red PTFE	45°	1	46610-716	100	1000
	Silver	Aluminum	Tan PTFE/White Silicone	45°	1.3	46610-714	100	1000
	Silver	Aluminum	PTFE/Synthetic Red Rubber	35°	1	46610-754	100	1000

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 Color	Septum	Cat. No.	Pack of	Case of
Convenience Kit, Standard Opening Crimp-Top Vial	Clear	No	Silver	Clear PTFE/Red Rubber	89239-004	100	1000
	Amber	No	Silver	Clear PTFE/Red Rubber	89239-006	100	1000
Convenience Kit, Wide Opening Crimp-Top Vial	Clear	No	Silver	Clear PTFE/Red Rubber	66009-850	100	1000
	Amber	No	Silver	Clear PTFE/Red Rubber	89239-008	100	1000
	Clear	No	Silver	Seal 2000 PTFE/Red Rubber	66009-864	100	1000
	Clear	No	Silver	Tan PTFE/Silicone	66009-870	100	1000

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	Cat. No.	Unit
Manual Crimper	11	76047-558	Each
	20	76047-562	Each
Manual Decapper	11	76047-566	Each
	20	76047-570	Each

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 aluminum 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	Cat. No.	Pack of	Case of
11 mm Crimp/Snap Vial	Clear	No	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	66009-822	100	1000
	Clear	Yes	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	82028-414	-	1000
	Amber	Yes	12 x 32	Flat Bottom	2 mL	1.5 mL	<170	82028-416	-	1000
300 µL Spring Insert	Polypropylene	No	12 x 32	Conical Base	475 µL	300 µL	<2	82028-412	100	-
	Clear	-	6 x 30	Conical	375 µL	0.25 mL	<1	46610-762	100	-
400 µL Insert	Polypropylene	-	6 x 30	Conical	325 µL	250 µL	<2	82028-450	100	-
350 µL Self Aligning Insert	Clear	-	6 x 31	Flat Bottom	500 µL	450 µL	<25	82028-454	-	1000
11 mm Crimp/Snap Vial 350 µL, Fused Insert	Clear	-	6 x 31	Pulled Point	400 µL	350 µL	<2	82028-452	100	-
	Clear	No	12 x 32	Fused Conical	500 µL	350 µL	<2	10803-890	100	-

VWR® 11mm SNAP-CAPS AND SEPTA

Description	Cap Color	Cap Material	Septum	Hardness *Shore	Thickness, mm	Cat. No.	Pack of	Case of
11 mm Snap Cap, 6mm hole	Clear	Polyethylene	Clear PTFE/Synthetic Red Rubber	60°	1	46610-718	100	1000
	Blue	Polyethylene	Clear PTFE/Synthetic Red Rubber	60°	1	89239-010	100	1000
	Clear	Polyethylene	Red PTFE/White Silicone	50°	1.3	46610-720	100	1000
	Blue	Polyethylene	Red PTFE/White Silicone	50°	1.3	89239-012	100	1000
	Clear	Polyethylene	Blue PTFE/White Silicone, Pre-slit	55°	1	82028-418	-	1000
	Blue	Polyethylene	Blue PTFE/White Silicone, Pre-slit	55°	1	89239-014	100	1000

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 Color	Septum	Cat. No.	Pack of	Case of
Convenience Kit, Wide Opening Snap-Cap Vial	Clear	No	Clear	Clear PTFE/Red Rubber	66009-868	-	1000
	Clear	No	Clear	Clear PTFE/White Silicone	66009-872	100	1000

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	Cat. No.	Pack of	Case of
13-425 Screw-Thread Vial	Clear	No	15 x 45	Flat Bottom	4 mL	4 mL	<800	66010-562	200	1000
	Clear	Yes	15 x 45	Flat Bottom	4 mL	4 mL	<800	82028-438	-	1000
	Amber	Yes	15 x 45	Flat Bottom	4 mL	4 mL	<800	82028-440	-	1000

VWR® 13-425 SCREW-THREAD CAPS AND SEPTA

Description	Cap Color	Cap Material	Septum	Hardness °Shore	Thickness, mm	Cat. No.	Pack of
13-425 Open-Top Screw Cap 13-425 Thread, 8.5mm Hole	White	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55°	1.5	82028-442	100
		Phenolic	Red PTFE/White Silicone	60°	1.5	82028-444	100
	Black	Polypropylene	Red PTFE/White Silicone	60°	1.5	46610-706	100

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 Color	Septum	Cat. No.	Pack of
Unassembled Kit	Clear	No	Black	Red PTFE/White Silicone	66009-880	200
Assembled Kit	Clear	No	Black	Red PTFE/White Silicone	66009-876	100

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	Cat. No.	Pack of	Case of
1 mL Shell Vial with SepCap	Clear	No	8 x 40	Flat Bottom	1.25 mL	1 mL	<80	66015-702	250	1000

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	Cat. No.	Pack of
Screw-Thread Headspace Vial, Round Bottom	20 mL	Clear	10119-902	100
	20 mL	Amber	10119-904	100
	10 mL	Clear	10119-906	100
	10 mL	Amber	10119-908	100



VWR® MAGNETIC CLOSURES

Description	Septa Thickness	Septum	Hardness °Shore	Cat. No.	Pack of
Magnetic Screw-Thread Headspace Caps	1.5 mm	White Silicone/Blue PTFE	55°	10119-910	100
	1.6 mm	Red Butyl/Grey PTFE	55°	10119-912	100
	1.3 mm	White Silicone/Red PTFE	45°	10119-914	100
	1.3 mm	Blue Silicone/White PTFE	45°	10119-916	100
	1.5 mm	White Silicone/Red PTFE, Star Slit	55°	10119-918	100

VWR® Manual Crimpers & Decappers on page 9



20mm CLEAR CRIMP SEAL HEADSPACE VIALS

Description	Capacity	O.D. x L	Top Finish	Cat. No.	Pack of
Round-Bottom Vial	20 mL	23 x 75 mm	Bevel Edge	75983-244	100
Flat Bottom Vial	20 mL	23 x 75 mm	Bevel Edge	75983-246	100
Flat Bottom Vial	20 mL	23 x 75 mm	Square Edge	75983-248	100

20mm CRIMP CAPS WITH 9.5mm HOLE

Thickness	Cap Color	Cap Material	Septum	Cat. No.	Pack of
3.2 mm	Silver	Aluminum	Tan PTFE/White Silicone	75983-250	100
3 mm	Silver	Aluminum	Gray PTFE/Red Rubber	75983-252	100
3 mm	Silver	Aluminum	Gray PTFE/Gray Butyl Rubber	75983-254	100
3 mm	Silver	Aluminum	Clear PTFE/Gray Butyl Rubber	75983-256	100

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 aluminum 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, and are cleaner than natural 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	●	●	●	●		●
	HT300A, HT310A, HT3000A, HT3100A, HT3200A	●	●	●	●		
PerkinElmer	AS2000/AS2000B	●			●		
	AS-300, AS8300, Autosystem	●					
	LC 600, 60 vial tray	●			●		
Shimadzu	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						●
	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	●	●	●			
	AI3000 (III)/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)	●	●	●			
	TriPlus RSH	●	●	●			●
VWR/Hitachi	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)	●	●	●		●	
	AS 6000	●	●	●			
Waters	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

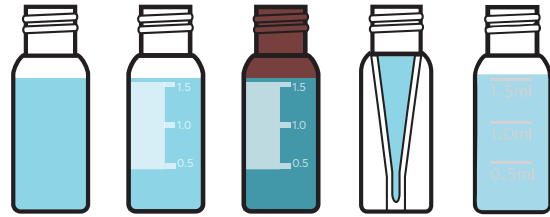
Images shown are 80% to scale

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



Cat. No.	66020-950	82028-420	46610-736	82028-422
Common Description	2mL	2mL	2mL	2mL
Approx. Total Capacity	1.9mL	1.9mL	1.9mL	1.9mL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL	1.5mL
Residual Volume	<170µL	<170µL	<170µL	<170µL
Composition	Glass	Glass	Amber	Amber

9mm Screw Vials – 12x32mm



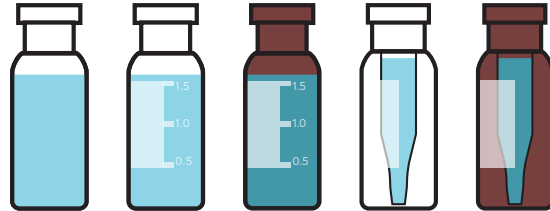
46610-722	46610-724	46610-726	89524-190	89524-188
2mL	2mL	2mL	450µL	2mL
2mL	2mL	2mL	250µL	2mL
1.5mL	1.5mL	1.5mL	250µL	1.5mL
<170 µL	<170µL	<170µL	<1µL	<180µL
Glass	Glass	Amber	PP	Clear PP

**10mm Wide Opening
Screw-Thread Vials – 12x32mm**



Cat. No.	82028-426	82028-428	82028-432
Common Description	2mL	2mL	2mL
Approx. Total Capacity	2mL	2mL	2mL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL
Residual Volume	<170µL	<170µL	<170µL
Composition	Glass	Glass	Amber

**11mm Wide Opening
Crimp-Top Vials**



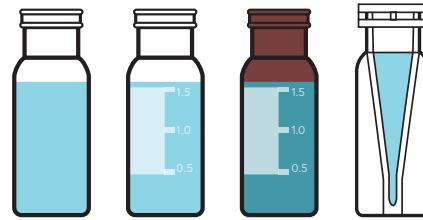
66010-539	46610-740	46610-742	82028-408	82028-410
2mL	2mL	2mL	250µL	250µL
2mL	2mL	2mL	500µL	500µL
1.5mL	1.5mL	1.5mL	350µL	350µL
<170µL	<170µL	<170µL	<2µL	<2µL
Glass	Glass	Amber	Glass	Amber

**11mm Standard-Opening
Crimp Vials – 12x32mm**



Cat. No.	66020-953	82028-402	82028-404
Common Description	2mL	2mL	2mL
Approx. Total Capacity	2mL	2mL	2mL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL
Residual Volume	<170µL	<170µL	<170µL
Composition	Glass	Glass	Amber

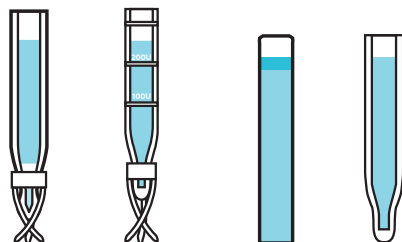
11mm Snap Vials – 12x32mm



66009-822	82028-414	82028-416	82028-412
2mL	2mL	2mL	250µL
2mL	2mL	2mL	475µL
1.5mL	1.5mL	1.5mL	300µL
<170µL	<170µL	<170µL	<2µL
Glass	Glass	Amber	PP

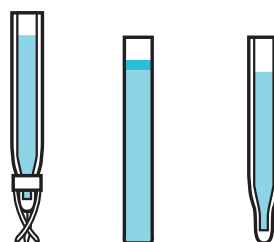
Images shown are 80% to scale

Wide Opening Microvolume Inserts



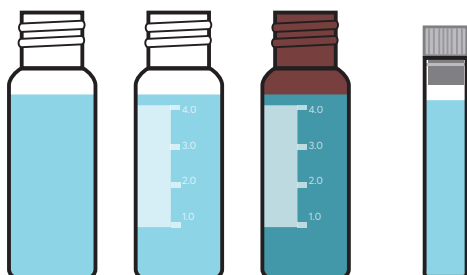
Cat. No.	46610-762	82028-450	82028-454	82028-452
Common Description	300µL	300µL	400µL	350µL
Approx. Total Capacity	375µL	325µL	500µL	400µL
Rec. Usable Volume	300µL	250µL	400µL	350µL
Residual Volume	<1µL	<2µL	<25µL	<4µL
Composition	Glass	PP	Glass	Glass

Standard Microvolume Inserts



Cat. No.	46610-702	82028-448	82028-446
Common Description	150µL	200µL	150µL
Approx. Total Capacity	200µL	250µL	200µL
Rec. Usable Volume	170µL	200µL	170µL
Residual Volume	<1µL	<12µL	<2µL
Composition	Glass	Glass	Glass

**15x45mm
Screw-Thread Vials**



**Shell Vials
and Inserts**

Cat. No.	66010-562	82028-438	82028-440	66015-702
Common Description	4mL	4mL	4mL	1mL
Approx. Total Capacity	5.2mL	5.2mL	5.2mL	1.25mL
Rec. Usable Volume	4mL	4mL	4mL	1mL
Residual Volume	<800µL	<800µL	<800µL	<80µL
Composition	Glass	Glass	Amber	Glass

Headspace Vials



Cat. No.	10119-906	10119-902	75983-244
Common Description	10mL	20mL	20mL
Approx. Total Capacity	12mL	21mL	21mL
Composition	Glass	Glass	Glass

VWR® 96-WELL POLYPROPYLENE MICROPLATES AND COVERS

VWR 96-Well Microplates are manufactured in a variety of sizes and well formats to meet the demanding requirements of modern laboratory applications. Sample volumes are uniform dimensionally so that all covers – whether round or square – fit interchangeably on other round- or square-well microplates. This reduces the number of covers needed for most laboratories.

- Virgin polypropylene construction
- Round, conical, and flat bottom formats are available
- Shallow well microplates have flat, round, and conical bottoms for volumes up to 350µL
- Medium well microplates have a round bottom for volumes up to 500µL
- Deep well microplates are available in round well with round bottoms for volumes up to 1.0mL and square well with either a conical or round bottom for volumes up to 2.0mL



MICROPLATES

Description	Well Volume	Color	Well Shape	Cat. No.	Unit
Deep Well Microplate	1.3 mL	Natural	Round Bottom	76397-582	Pack of 10
Deep Well Microplate	1.0 mL	Natural	Conical Bottom	76397-580	Pack of 10
Deep Well Microplate	2.0 mL	Natural	Round Bottom	76397-576	Pack of 10
Medium Well Microplate	500 µL	Natural	Round Bottom	76397-578	Pack of 10
Shallow Well Microplate	350 µL	Natural	Flat Bottom	76397-816	Pack of 10
Shallow Well Microplate	350 µL	Natural	Round Bottom	76397-818	Pack of 10
Shallow Well Microplate	350 µL	Natural	Conical Bottom	76397-574	Pack of 10

MICROPLATE COVERS

EVA microplate covers are designed to stabilize samples during transport from one workstation to another, with the option of a thicker cover for seal strength that is not pierceable or a thinner version that is pierceable by most autosampler needles. The silicone covers are available in two thicknesses, both of which are available either pre-cut or non-cut for resealability.

- Covers are available in multiple materials and thicknesses
- All covers fit interchangeably



Description	Color	Well Shape	Cat. No.	Unit
EVA Microplate Cover	Natural	Round	76397-822	Pack of 10
EVA Microplate Cover	Natural	Square	76397-834	Pack of 10
Silicone Microplate Cover, Pre-cut	Natural	Square	76397-832	Pack of 10
Silicone Microplate Cover, Pre-cut	Natural	Round	76397-826	Pack of 10
Silicone Microplate Cover, Thin, Pre-cut	Natural	Round	76397-828	Pack of 10
Silicone Microplate Cover, Thin, Non-cut	Natural	Square Well	76397-820	Pack of 10
Silicone Microplate Cover, Thick, Pre-cut	Natural	Round Well	76397-826	Pack of 10
Silicone Microplate Cover, Thick, Non-cut	Natural	Square Well	76397-830	Pack of 10

Covers available in ethylene vinyl acetate or silicone with a sprayed-on Teflon barrier

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