

**Fisherbrand**

Autosampler Vials, Inserts and Closures



# Welcome to the Fisherbrand Autosampler Vials, Inserts and Closures brochure. This portfolio was designed with analytical chemists in mind. It provides a comprehensive selection of vials and closures from microsampling to headspace to match popular application requirements.

**Vial choices include:** Crimp Top, Snap Top, and Screw top vials with a selection of closures. Refer to the Autosampler Compatibility Table on pages 10-11 to determine which vials, closures and inserts will work on your specific autosampler unit.

## FEATURED PRODUCTS



### Convenience Kits

- Reusable two-compartment trays protect vials and closures, while keeping matching supplies together
- Variety of vial and closure options available



### Headspace Vials

- Superior Type 1, Class A high density glass thickness that distributes heat evenly
- Headspace vials are available in both screw and crimp finishes
- Aluminum seals are available in standard center hole and pressure release versions



### Fixed Insert Microsampling Vials

- Residual sample volumes as low as 1 $\mu$ L
- Working volumes up to 1.2mL
- Stable base profiles prevent tipping
- Variety of closure options available



### Snap-It Caps

- Inexpensive single use closure for snap cap vials
- New double snap feature provides improved resistance to sample evaporation and a positive indication of proper cap fit
- Secondary sealing bead under the cap rim improves cap roundness for improved pickup by robotic autosamplers

## Fisherbrand 8mm Standard Opening Screw Thread Vials

### 8-425 Thread Finish, Standard Opening, 2mL, 12x32mm

- Available with write-on patch with graduation for convenient sample identification
- Superior quality clear (Type 1, Class A) or 51A amber (Type 1 Class B) glass



Recommended for the following instruments:

- Beckman
- CTC
- Gilson
- Knauer
- Shimadzu
- Spark Holland
- Varian
- VWR (Merck)/Hitachi

For autosampler compatibility look on pages 10-11

Description	Glass	Patched	Dimension (mm)	Profile	Total Volume	Usable Volume	Residual (µL)	Cat. No.	Pack of
8-425 Screw Thread Vial	Clear	No	12x32	Flat Bottom	2.0mL	1.5mL	<170	<b>03-391-44</b>	100
	Clear	Yes	12x32	Flat Bottom	2.0mL	1.5mL	<170	<b>13-622-206</b>	100
	Amber	Yes	12x32	Flat Bottom	2.0mL	1.5mL	<170	<b>13-622-205</b>	100
200µL Flat Bottom Insert	Clear	–	5x31	Flat Bottom	250µL	200µL	<12	<b>13-622-208</b>	100
150µL Spring Insert	Clear	–	5x29	Pulled Point	200µL	175µL	<1	<b>13-622-207</b>	100

### Fisherbrand 8-425 Screw Thread Caps and Septa

- Phenolic caps are suitable for autoclaving and low temperature applications
- Polypropylene caps are chemically inert and suitable for most chromatography applications
- Flanged caps are preferred for Shimadzu and Tosoh autosamplers
- 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
8mm Open Top Cap, 5.5mm hole	Black	Polypropylene	Red PTFE/White Silicone	45	1.30	<b>03-391-46</b>	100
8mm Open Top Cap with flange, 5.5mm hole	Black	Polypropylene	Red PTFE/White Silicone	45	1.30	<b>13-622-211</b>	100

### Fisherbrand Standard Opening Screw Thread Vial Convenience Kits

- Save time during sample preparation & reduce the risk of contamination
- Includes 100 vials and 100 caps with pre-assembled septa
- Reusable two compartment trays protect vials and closure while keeping matching supplies together



Kit Type	Glass	Patched	Cap Color	Septum	Cat. No.	Pack of
Convenience Kit	Clear	No	Black	Red PTFE/White Silicone	<b>13-622-209</b>	100
	Amber	No	Black	Red PTFE/White Silicone	<b>13-622-210</b>	100

## Fisherbrand 9mm Wide Opening Screw Thread Vials

### 2mL, 12x32mm, 9mm Wide Opening Short Screw Thread Vials and Inserts

- Available with patch and graduation marks for convenient sample identification
- Wide neck opening design, allows easy filling
- Superior quality clear (Type 1, Class A) or 51A amber (Type 1 Class B) glass
- Microsampling options allow maximum sample extraction without need for separate inserts
- Polyspring inserts are self-aligning and provide a cushion against needle contact
- Precision point insert minimizes residual sample loss

Recommended for most brands of autosamplers:

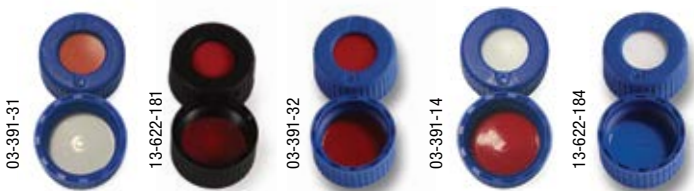
For autosampler compatibility look on pages 10-11



Description	Glass	Patched	Dimension (mm)	Profile	Total Volume	Usable Volume	Residual (µL)	Cat. No.	Pack of
9mm Screw Thread Vial	Clear	No	12x32	Flat Bottom	2.0mL	1.5mL	<170	<b>03-391-8</b>	100
	Clear	Yes	12x32	Flat Bottom	2.0mL	1.5mL	<170	<b>13-622-178</b>	100
	Amber	Yes	12x32	Flat Bottom	2.0mL	1.5mL	<170	<b>03-391-9</b>	100
	Polypropylene	No	12x32	Conical	400µL	300µL	<2	<b>13-622-124</b>	100
9mm Fused Insert Vial	Clear	Yes	12x32	Insert Vial	475µL	350µL	<2	<b>13-622-179</b>	100
	Amber	Yes	12x32	Insert Vial	475µL	350µL	<2	<b>13-622-185</b>	100
300µL Polyspring Insert	Clear	-	6x29	Conical	375µL	300µL	<1	<b>03-391-35</b>	100
	Polypropylene	-	6x30	Conical	325µL	250µL	<2	<b>13-622-217</b>	100
400µL Flat Bottom Insert	Clear	-	6x31	Flat Bottom	500µL	450µL	<25	<b>13-622-218</b>	500
350µL Insert	Clear	-	6x31	Precision Point	400µL	350µL	<2	<b>13-622-216</b>	100

### Fisherbrand 9mm Screw Thread Caps and Septa

- Fully compatible with all 9mm Screw Thread Vials.
- Easy-on, easy-off convenience with just one turn
- Pre-assembled caps and septa are convenient and minimize contamination from handling
- Polypropylene caps are chemically inert and suitable for most chromatography applications
- Closures have the profile of a crimp or snap closure for compatibility with robotic autosamplers
- Closures are shipped in sealed polybags to prevent contamination during transport



Description	Cap Color	Cap Material	Septum	Hardness °shore	Thickness (mm)	Cat. No.	Pack of
9mm Open Top Cap, 6mm Hole	Black	Polypropylene	Ivory PTFE/Red Rubber	45	1.0	<b>13-622-180</b>	100
	Blue	Polypropylene	Ivory PTFE/Red Rubber	45	1.0	<b>03-391-31</b>	100
	Black	Polypropylene	Red PTFE/White Silicone/Red PTFE	50	1.0	<b>13-622-181</b>	100
	Blue	Polypropylene	Red PTFE/White Silicone/Red PTFE	50	1.0	<b>03-391-32</b>	100
	Black	Polypropylene	Red PTFE/White Silicone	55	1.0	<b>13-622-182</b>	100
	Blue	Polypropylene	Red PTFE/White Silicone	55	1.0	<b>03-391-14</b>	100
	Black	Polypropylene	Blue PTFE/ White Silicone, Pre-Slit	55	1.0	<b>13-622-183</b>	100
	Blue	Polypropylene	Blue PTFE/White Silicone, Pre-slit	55	1.0	<b>13-622-184</b>	100

### Fisherbrand 9mm Screw Vials Convenience Kits

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



Kit Type	Glass	Patched	Cap Color	Septum	Cat . No.	Pack of
Convenience Kit	Clear	Yes	Blue	Ivory PTFE/Red Rubber	13-622-186	100
	Amber	Yes	Blue	Ivory PTFE/Red Rubber	13-622-187	100
	Clear	Yes	Blue	Red PTFE/White Silicone/Red PTFE	13-622-188	100
	Amber	Yes	Blue	Red PTFE/White Silicone/Red PTFE	13-622-189	100
	Clear	No	Blue	Red PTFE/White Silicone	03-391-15	100
	Clear	Yes	Blue	Red PTFE/White Silicone	13-622-190	100
	Amber	Yes	Blue	Red PTFE/White Silicone	13-622-191	100
	Clear	Yes	Blue	Blue PTFE/ White Silicone, Pre-slit	13-622-192	100
Assembled Kit	Clear	Yes	Blue	Ivory PTFE/Red Rubber	13-622-193	100
	Clear	Yes	Blue	Red PTFE/White Silicone	13-622-190	100
	Clear	Yes	Blue	Blue PTFE/White Silicone, Pre-slit	13-622-195	100
	Clear	Yes	Blue	Red PTFE/White Silicone/Red PTFE	13-622-196	100
	Clear	Yes	Blue	Ivory PTFE/Red Rubber, Pre-slit	13-622-197	100



## Fisherbrand 10mm Wide Opening Screw Thread Vials

### 2mL, 12x32mm 10mm Wide Opening Screw Thread Vials and Inserts

- 10-425 thread finish
- I-D vials feature a write-on patch with graduation for convenient sample identification
- Wide neck opening design, allows easy filling, requires Micro-Inserts with a diameter of 6mm
- Superior quality clear (Type 1, Class A) or 51A amber (Type 1 Class B) glass
- Polyspring inserts are self-aligning and provide a cushion against needle contact
- Precision point insert minimizes residual sample loss



Recommended for the following instruments:

- Jasco
- PerkinElmer
- Shimadzu
- Varian
- Waters

For autosampler compatibility look on pages 10-11

Description	Glass	Patched	Dimension (mm)	Profile	Total Volume	Usable Volume	Residual (µL)	Cat. No.	Pack of
10-425 Screw Thread Vial	Clear	No	12x32	Flat Bottom	1.5mL	2.0mL	<170	<b>03-391-16</b>	100
	Clear	Yes	12x32	Flat Bottom	1.5mL	2.0mL	<170	<b>13-622-198</b>	100
	Amber	Yes	12x32	Flat Bottom	1.5mL	2.0mL	<170	<b>03-391-36</b>	100
300µL PolySpring Insert	Clear	No	6x29	Conical	375uL	300µL	<1	<b>03-391-35</b>	100
	Polypropylene	No	6x30	Conical	325uL	250µL	<2	<b>13-622-217</b>	100
350µL Insert	Clear	No	6x31	Precision Point	400uL	350µL	<2	<b>13-622-216</b>	100
	Clear	No	6x31	Flat Bottom	500uL	450µL	<25	<b>13-622-218</b>	500

### Fisherbrand 10-425 Wide Opening Screw Caps and Septa

- Open top caps are designed to be used with any of our 10mm septa
- Polypropylene caps are chemically inert and suitable for most chromatography applications
- Pre-assembled caps and septa are convenient and minimize contamination from handling
- Closures are shipped in sealed polybags to prevent contamination during transport



Description	Cap Color	Cap Material	Septum	Hardness °shore	Thickness (mm)	Cat. No.	Pack of
10mm Open Top Cap, 8.5mm hole	Black	Polypropylene	Red PTFE/White Silicone	50	1.3	<b>03-391-17</b>	100

### Fisherbrand 10mm Wide Opening Screw Thread Vials Convenience Kits

- Save time during sample preparation
- Reduce the risk of contamination

Description	Glass	Patched	Cap Color	Septum	Cat. No.	Pack of
Convenience Kit	Clear	No	Black	Red PTFE/White Silicone	<b>03-391-18</b>	100
	Clear	Yes	Light Blue	Red PTFE/White Silicone	<b>13-622-199</b>	100
	Amber	Yes	Light Blue	Red PTFE/White Silicone	<b>13-622-200</b>	100

Fisherbrand 11mm Crimp Top Vials

2mL, 12x32, Crimp Top Vials and Inserts

- Superior quality clear (Type 1, Class A) or 51A amber (Type 1 Class B) glass
- I-D vials feature a write-on patch with graduation for convenient sample identification
- Wide neck opening design, allows easy filling, requires Micro-Inserts with a diameter of 6mm

Recommended for most brands.

For autosampler compatibility look on pages 10-11



Description	Glass	Patched	Dimension (mm)	Profile	Total Volume	Usable Volume	Residual (µL)	Cat. No.	Pack of
11mm Crimp Top Vial, Standard Opening	Clear	No	12x32	Flat Bottom	2mL	1.5mL	<170	03-391-2	100
	Amber	No	12x32	Flat Bottom	2mL	1.5mL	<170	03-391-38	100

Fisherbrand 11mm Crimp Top Vials and Inserts – Wide Opening



Description	Glass	Patched	Dimension (mm)	Profile	Total Volume	Usable Volume	Residual (µL)	Cat. No.	Pack of
11mm Crimp Top Vial, Wide Opening	Clear	No	12x32	Flat Bottom	2mL	1.5mL	<170	03-391-5	100
	Clear	Yes	12x32	Flat Bottom	2mL	1.5mL	<170	13-622-202	100
	Amber	Yes	12x32	Flat Bottom	2mL	1.5mL	<170	03-391-6	100



## Fisherbrand 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
11mm Crimp Cap, 5.5mm hole	Silver	Aluminum	Clear PTFE/Natural Red Rubber	60	1.0	<b>03-391-3</b>	100
	Silver	Aluminum	Red PTFE/White Silicone	45	1.3	<b>03-391-33</b>	100
	Silver	Aluminum	Red PTFE/White Silicone/Red PTFE	45	1.0	<b>03-391-34</b>	100

## Fisherbrand 11mm Crimp Top Convenience Kits

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

### 11mm Crimp Vials

Kit Type	Glass	Patched	Cap Color	Septum	Cat. No.	Pack of
Convenience Kit	Clear	No	Silver	Clear PTFE/Red Rubber	<b>03-391-4</b>	100

### 11mm Wide Mouth Crimp Vials

Kit Type	Glass	Patched	Cap Color	Septum	Cat. No.	Pack of
Convenience Kit	Clear	No	Silver	Clear PTFE/Red Rubber	<b>03-391-7</b>	100
	Clear	Yes	Silver	Clear PTFE/Red Rubber	<b>13-622-203</b>	100
	Amber	Yes	Silver	Clear PTFE/Red Rubber	<b>13-622-04</b>	100





Fisherbrand 11mm Wide Opening Snap-It Vials

2mL, 12x32mm Wide opening Snap-It vials and inserts

- Superior quality clear (Type 1, Class A) or 51A amber (Type 1 Class B) glass
- I-D vials feature a write-on patch with graduation for convenient sample identification
- Wide neck opening design, allows easy filling, requires Micro-Inserts with a diameter of 6mm
- Microsampling Vials allow maximum sample extraction without need for separate inserts
- Snap-It vials can be used with snap caps or aluminum crimp seal closures

Recommended for most brands of instruments:

For autosampler compatibility look on pages 10-11



Description	Glass	Patched	Dimension (mm)	Profile	Total Volume	Usable Volume	Residual (µL)	Cat. No.	Pack of
11mm Snap-It Vial	Clear	No	12x32	Flat Bottom	2mL	1.5mL	<170	03-391-39	100
	Clear	Yes	12x32	Flat Bottom	2mL	1.5mL	<170	03-391-40	100
	Amber	Yes	12x32	Flat Bottom	2mL	1.5mL	<170	03-391-41	100
11mm Snap-It 250µL Microvial	Polypropylene	No	12x32	Conical Base	475µL	300µL	<2	13-622-127	100
11mm Snap-It MacroviaL 250uL, Fused Insert	Clear	No	12x32	Fused Conical	500µL	350µL	<2	13-622-126	100
300uL PolySpring Insert	Clear	-	6x29	Conical	375µL	300µL	<1	03-391-35	100
	Polypropylene	-	6x30	Conical	325µL	250µL	<2	13-622-217	100
350uL Insert	Clear	-	6x31	Precision Point	400µL	350µL	<2	13-622-216	100
	Clear	-	6x31	Flat Bottom	500µL	450µL	<25	13-622-218	500

Fisherbrand 11mm Snap Caps and Septa

- Snap-It caps eliminate the need for crimping or de-capping tools
- Redesign of locking tabs provides easier application and removal of caps
- Enlarged open area allows for needle penetration across the entire vial opening
- Textured outer surface for easier gripping and improved detection by autosamplers with optical vial sensors
- Closures are shipped in sealed polybags to prevent contamination during transport

Description	Cap Color	Cap Material	Septum	Hardness °shore	Thickness (mm)	Cat. No.	Pack of
11mm Snap Cap, 6mm hole	Clear	Polyethylene	Clear PTFE/Synthetic Red Rubber	60	1.0	13-622-215	100
	Blue	Polyethylene	Clear PTFE/Synthetic Red Rubber	60	1.0	13-622-214	100
	Clear	Polyethylene	Red PTFE/White Silicone	50	1.0	03-391-42	100
	Blue	Polyethylene	Red PTFE/White Silicone	50	1.0	13-622-212	100
	Clear	Polyethylene	Blue PTFE/White Silicone, Pre-slit	55	1.0	03-391-43	100
	Blue	Polyethylene	Blue PTFE/White Silicone, Pre-slit	55	1.0	13-622-213	100

## Fisherbrand 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 10-11

Description	Glass	Patched	Dimension (mm)	Profile	Total Volume	Usable Volume	Residual (µL)	Cat. No.	Pack of
13-425 Screw Thread Vial	Clear	No	15x45	Flat Bottom	4mL	4mL	<800	<b>03-391-19</b>	100
	Clear	Yes	15x45	Flat Bottom	4mL	4mL	<800	<b>13-622-201</b>	100
	Amber	Yes	15x45	Flat Bottom	4mL	4mL	<800	<b>03-391-37</b>	100

### Fisherbrand 13-425 Screw Thread Caps and Septa

- Polypropylene caps are chemically inert and suitable for most chromatography applications
- Phenolic resin caps perform well at high temperatures and are compatible with exposure to corrosives
- Integral Molded Polypropylene cap is an economical choice when septum resealing is not required



Description	Cap Color	Cap Material	Septum	Hardness °shore	Thickness (mm)	Cat. No.	Pack of
13mm Open Top Screw Cap, 13-425 thread, 8.5mm hole	Black	Polypropylene	Red PTFE/White Silicone	60	1.5	<b>03-391-21</b>	100

### Fisherbrand 4mL Screw Thread Convenience Kits

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



Kit Type	Glass	Patched	Cap Color	Septum	Cat. No.	Pack of
Convenience Kit	Clear	No	Black	Red PTFE/White Silicone	<b>03-391-22</b>	100

Fisherbrand Headspace Vials and Closures

- Superior quality (Type 1, Class A) glass
- Headspace vials are available with either a round or flat base
- Round bottom vials are compatible with most autosamplers and more easily handled by robotic arms that lift the vial from the tray
- Flat bottom vials maximize heating efficiency in manual headspace sampling and are required for use in some instrument models



Fisherbrand Headspace Vials

Description	Glass	Patched	Dimension	Finish	Profile	Total Volume	Usable Volume	Cat. No.	Pack of
20mm Headspace Crimp Vial	Clear	No	23x46	Beveled Edge	Flat Bottom	12.5	10	13-622-129	100
	Clear	No	23x75	Beveled Edge	Flat Bottom	21.5	20	13-622-128	100
18mm Screw Top Headspace Vial	Clear	No	22.5x46	Screw Thread	Round Bottom	10.8	8	13-622-134	100
	Clear	No	22.5x75.5	Screw Thread	Round Bottom	20.6	18	13-622-132	100
	Amber	No	22.5x46	Screw Thread	Round Bottom	10.8	8	13-622-135	100
	Amber	No	22.5x75.5	Screw Thread	Round Bottom	20.6	18	13-622-133	100

Fisherbrand Headspace Caps

Description	Cap Color	Cap Material	Septum	Hardness shore	Thickness (mm)	Cat. No.	Pack of
20mm Crimp Cap, 9.5mm hole	Silver	Aluminum	Tan PTFE/White Silicone	45	3.2	13-622-130	100
20mm Pressure Release Crimp Cap, 8mm hole	Silver	Aluminum-PR	Tan PTFE/White Silicone	45	3.2	13-622-131	100
18mm Magnetic Screw Cap, 8mm hole	Silver	Steel/Magnetic	Blue PTFE/White Silicone	55	1.5	13-622-136	100
	Silver	Steel/Magnetic	Grey PTFE/Red Butyl	55	1.6	13-622-137	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/ Synthetic Red Rubber septa are an economical choice for general HPLC and GC applications. Used primarily for routine applications. A lower durometer compared to PTFE/Natural rubber allows for easy needle penetration even with thin bore GC needles. PTFE/Synthetic Red Rubber septa offer good resealability and excellent chemical inertness before puncture.

PTFE/Silicone Septa

High-quality, lowest background/blank value, 100% synthetic pure silicone septa, for a broad range of chromatographic applications. Laminated to

a thin PTFE film for a pure, highly inert septum with effective resealing characteristics. 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

PTFE/Silicone septa are provided with a thin 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.

PTFE/Silicone/PTFE Septa

A thin layer of PTFE is laminated to each side of high-purity, medium durometer silicone to form a septa that are resistant to coring, but still maintain good resealing characteristics. These 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. The 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 (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)	•	•	•			
	TriPlus RSH	•	•	•			•
	TriPlus 300						•
	VWR(Merck)/Hitachi	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

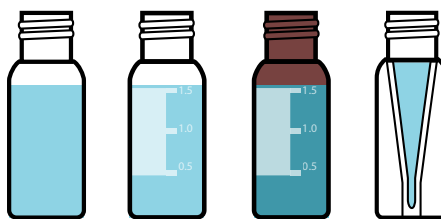
Images shown are 80% to scale

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



	<b>03-391-44</b>	<b>13-622-206</b>	<b>13-622-205</b>
Cat. No.	03-391-44	13-622-206	13-622-205
Common Description	2mL	2mL	2mL
Approx. Total Capacity	1.9mL	1.9mL	1.9mL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL
Residual Volume	<170µL	<170µL	<170µL
Composition	Glass	Glass	Amber

### 9mm Screw Vials – 12x32mm



	<b>03-391-8</b>	<b>13-622-178</b>	<b>03-391-9</b>	<b>13-622-124</b>
Cat. No.	03-391-8	13-622-178	03-391-9	13-622-124
Common Description	2mL	2mL	2mL	450µL
Approx. Total Capacity	2mL	2mL	2mL	250µL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL	250µL
Residual Volume	<170 µL	<170µL	<170µL	<1µL
Composition	Glass	Glass	Amber	PolyPro

### 10mm Wide Opening Screw Thread Vials – 12x32mm



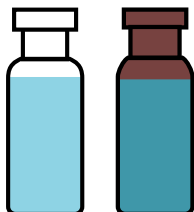
	<b>03-391-16</b>	<b>13-622-198</b>	<b>03-391-36</b>
Cat. No.	03-391-16	13-622-198	03-391-36
Common Description	2mL	2mL	2mL
Approx. Total Capacity	2mL	2mL	2mL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL
Residual Volume	<170µL	<170µL	<170µL
Composition	Glass	Glass	Amber

### 11mm Wide Opening Crimp Top Vials



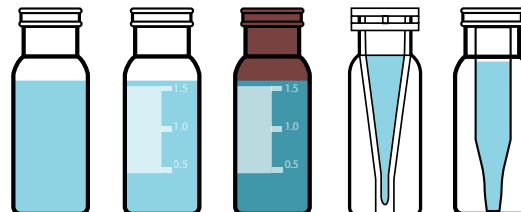
	<b>03-391-5</b>	<b>13-622-202</b>	<b>03-391-6</b>
Cat. No.	03-391-5	13-622-202	03-391-6
Common Description	2mL	2mL	2mL
Approx. Total Capacity	2mL	2mL	2mL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL
Residual Volume	<170µL	<170µL	<170µL
Composition	Glass	Glass	Amber

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



	<b>03-391-2</b>	<b>03-391-38</b>
Cat. No.	03-391-2	03-391-38
Common Description	2mL	2mL
Approx. Total Capacity	2mL	2mL
Rec. Usable Volume	1.5mL	1.5mL
Residual Volume	<170µL	<170µL
Composition	Glass	Glass

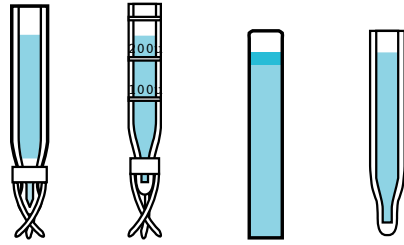
### 11mm Snap Vials – 12x32mm



	<b>03-391-39</b>	<b>03-391-40</b>	<b>03-391-41</b>	<b>13-622-127</b>	<b>13-622-126</b>
Cat. No.	03-391-39	03-391-40	03-391-41	13-622-127	13-622-126
Common Description	2mL	2mL	2mL	250µL	350µL
Approx. Total Capacity	2mL	2mL	2mL	475µL	500µL
Rec. Usable Volume	1.5mL	1.5mL	1.5mL	300µL	350µL
Residual Volume	<170µL	<170µL	<170µL	<2µL	<2µL
Composition	Glass	Glass	Amber	Polypro	Glass

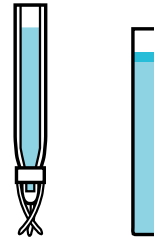
Images shown are 80% to scale  
 \*60% to scale

Wide Opening Microvolume Inserts



	<b>03-391-35</b>	<b>13-622-217</b>	<b>13-622-218</b>	<b>13-622-216</b>
Cat. No.	03-391-35	13-622-217	13-622-218	13-622-216
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	<2µL
Composition	Glass	Polypro	Glass	Glass

Standard Microvolume Inserts



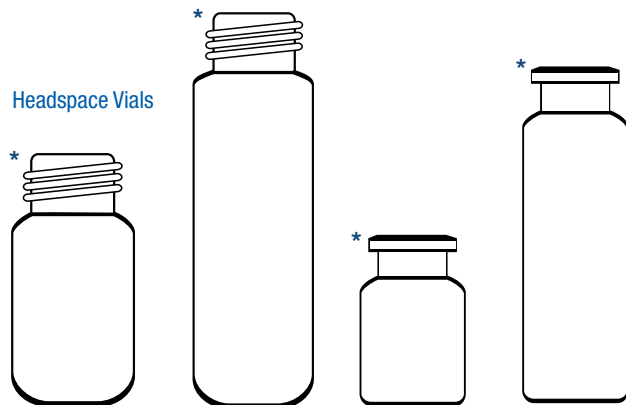
	<b>13-622-207</b>	<b>13-622-208</b>
Cat. No.	13-622-207	13-622-208
Common Description	150µL	200µL
Approx. Total Capacity	200µL	250µL
Rec. Usable Volume	170µL	200µL
Residual Volume	<1µL	<12µL
Composition	Glass	Glass

15x45mm Screw Thread Vials



	<b>03-391-19</b>	<b>13-622-201</b>	<b>03-391-37</b>
Cat. No.	03-391-19	13-622-201	03-391-37
Common Description	4mL	4mL	4mL
Approx. Total Capacity	5.2mL	5.2mL	5.2mL
Rec. Usable Volume	4mL	4mL	4mL
Residual Volume	<800µL	<800µL	<800µL
Composition	Glass	Glass	Amber

Headspace Vials



	<b>13-622-134</b>	<b>13-622-132</b>	<b>13-622-129</b>	<b>13-622-128</b>
Cat. No.	13-622-134	13-622-132	13-622-129	13-622-128
Common Description	10mL	20mL	10mL	20mL
Approx. Total Capacity	12mL	21mL	12.5mL	21.5mL
Composition	Glass	Glass	Glass	Glass



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