



SiliCycle[®]

Consumables



Distributed by

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SiliCycle® Syringe Filters



Using SiliCycle Syringe Filters guarantees the following benefits:

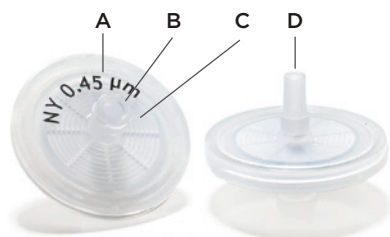
- Suitable for all laboratory filtrations.
- Increases column and apparatus life.
- Consistent and reproducible analysis.
- Limits system down time.



SiliCycle Syringe Filters Are Suitable for your Laboratory Filtration Needs

Syringe filters are offered by SiliCycle to help scientists with their laboratory filtration needs. They are compatible either with aqueous, organic or inorganic solutions. SiliCycle Syringe Filters are available in a wide variety of membranes (*Nylon, PTFE, PVDF, PES, and RC*) with polypropylene housing. They are the perfect choice for many applications in the fields of environmental, pharmaceutical, biotechnological, forensic and food & beverage laboratories.

SiliCycle Syringe Filters are specially designed to offer efficient and superior flow rate for any type of solution. These high quality products provide you with optimal filtration and particulate-free samples prior to injection. This extends apparatus lifetime which decreases overall analysis cost.



Nylon Syringe Filter 0.45 µm 25 mm
(PN: SF-NYL25-45)

A: Identification

Membrane type and pore size are clearly identified on each syringe filter.

B: Luer-Lok™ female connector

Secures the connections to prevent «blow off».

C: Distribution ring

Generates even distribution of the flow rate during the elution.

D: Luer male connector

Can be easily connected to an automated system.

Field of Applications

Environmental

Environmental analysis of water, waste water, soil and sludge can be easily filtered using the SiliCycle Syringe Filter portfolio.

Pharmaceutical & Biotechnological

At each step of the drug discovery process, API or target compounds have to be isolated, purified and filtered prior to analysis. SiliCycle Syringe Filters achieve easy purification of complex physiological matrices.

Forensic

Elimination of particulates before injection to a sub-micron device is necessary prior to each clinical or toxicological analysis (*HPLC, GC or Mass Spectrometer*).

Food & beverage

Improving the detection limits for pesticides, herbicides, flavours and fragrances analysis requires high quality syringe filter products because of the presence of different types of particulates in the samples.



Find the Perfect Syringe Filter in 3 Simple Steps

Step 1: Selection of the Membrane by Application

Step 2: Selection of the Membrane Porosity Based on the Sample Nature

Step 3: Selection of the Membrane Diameter Based on Sample Volume

Step 1: Selection of the Membrane by Application

In the table below you can find the most popular applications where scientists are using SiliCycle Syringe Filters in their laboratories. The table below presents recommended membranes and alternative membranes for each application type. Finally, your choice of membrane can be validated by reviewing the description of each membrane in the SiliCycle portfolio.

Membrane Selection by Application		
Applications	Recommended Membranes	Alternative Membranes
Sample preparation prior to HPLC & GC analysis	Nylon	PTFE, PES or RC
Protein analysis or biological solutions	PVDF or PES	Nylon or RC
High particulate loads	Nylon	RC or PTFE
Pure organic and aggressive solvents	PTFE	RC or Nylon
Environmental analysis	PTFE or Nylon	RC
Clinical or toxicological analysis	PES	RC
Food & beverage analysis	PTFE or Nylon	RC
Sample preparation prior to ionic chromatography analysis	PES	PTFE or RC
Capillary electrophoresis analysis	PES	RC
Sample preparation prior to ICP-MS or AAS analysis (<i>trace metals</i>)	PES or Nylon	RC

Membrane Descriptions

Nylon:

Hydrophilic membrane is working well for general filtrations, aqueous & mixed organic solutions, medical assays and HPLC sample preparations.

Polytetrafluoroethylene (PTFE):

Hydrophobic polytetrafluoroethylene membrane is an excellent media for filtration of strong acids and aggressive organic solvents. Wetting the membrane with alcohol and water gives a hydrophilic characteristic.

Polyvinylidene Fluoride (PVDF):

Hydrophilic polyvinylidene fluoride membrane presents low extractables and provides good filtration of aqueous solutions, organic solvents and biological solutions.

Polyethersulfone (PES):

Hydrophilic polyethersulfone membrane is mainly used for life-science applications (*biological & pharmaceutical*) because of the ultra-low protein binding characteristic of the membrane.

Regenerated Cellulose (RC):

Regenerated cellulose is a universal hydrophilic membrane used in chromatography for filtration of aqueous samples and solvents. This membrane is also used for filtration of biomolecules because of the ultra-low binding capability of the media.

Step 2: Selection of the Membrane Porosity Based on the Sample Nature

Pore Size of 0.45 µm

This porosity is recommended for filtration of viscous solutions or solutions containing high levels of particulate matter. Generally used for aqueous or mixed organic solutions prior to injection on an HPLC column packed with > 3 µm particles.

Pore Size of 0.20 µm

Generally used for aqueous or mixed organic solution prior to injection on an HPLC or UHPLC column packed with ≤ 3 µm particles. This porosity is recommended for particulate-sensitive methods.

Step 3: Selection of the Membrane Diameter Based on Sample Volume

4 mm Membrane

Use this diameter when the volume to filtrate is less than 1 mL.

13 mm Membrane

Use this diameter when the volume to filtrate is between 1 to 10 mL.

25 mm Membrane

Use this diameter when the volume to filtrate is between 10 to 100 mL.



SiliCycle Syringe Filters Chemical Compatibility Chart

SiliCycle Syringe Filters Chemical Compatibility Chart											
Chemical	Nylon	PTFE	PVDF	PES	RC	Chemical	Nylon	PTFE	PVDF	PES	RC
Acids						Halogenated Hydrocarbons					
Acetic, Glacial	Yellow	Green	Green	Red	Green	Carbon Tetrachloride	Green	Green	Green	Green	Green
Acetic, 25%	Green	Green	Green	Green	Green	Chloroform	Green	Green	Green	Red	Green
Formic, 25%	Red	Green	Green	-	Green	Methylene Chloride	Yellow	Green	Green	Red	Green
Hydrochloric, 25%	Red	Green	Green	Green	Red	Ketones					
Nitric, 25%	Red	Green	Green	Green	Red	Acetone	Green	Green	Green	Red	Green
Phosphoric, 25%	Red	Green	Green	-	Yellow	Cyclohexanone	Green	Green	Green	Red	Green
Sulfuric, 25%	Red	Green	Green	Green	Red	Methyl Ethyl Ketone	Green	Green	Yellow	Red	Green
Trichloroacetic, 10%	Red	Green	-	-	Green	Methyl Isobutyl Ketone	-	Green	Red	Red	Green
Bases						Esters					
Ammonium Hydroxide, 25%	Green	Green	Green	Green	Yellow	Amyl Acetate	Green	Green	Yellow	Red	Green
Sodium Hydroxide, 3 N	Green	Green	Green	Green	Yellow	Butyl Acetate	Green	Green	Yellow	Red	Green
Alcohols						Organic Oxides					
Benzyl Alcohol	Green	Green	Green	Red	Green	Ethyl Acetate, Methyl Acetate	Green	Green	Yellow	Red	Green
Ethanol, 70%	Yellow	Green	Green	Green	Green	Propyl Acetate	Green	Green	Yellow	Red	Green
Ethanol, 98%	Green	Green	Green	Green	Green	Organic Oxides					
Ethylene Glycol	Green	Green	Green	Green	Green	Dimethylsulfoxide	-	Green	Red	Red	Green
Glycerol	Green	Green	Green	Green	Green	Dioxane	Green	Green	Red	Red	Green
Isopropanol	Green	Green	Green	Green	Green	Tetrahydrofuran	Green	Green	Red	Red	Green
Methanol, 98%	Green	Green	Green	Green	Green	Ethyl Ether	Green	Green	Green	Green	Green
Hydrocarbons						Amides & Amines					
Hexane	Green	Green	Green	Yellow	Green	Acetonitrile	Green	Green	Yellow	Yellow	Green
Xylene	Green	Green	Green	Green	Green	Aniline	-	Green	Red	-	Green
Toluene, Benzene	Green	Green	Green	Red	Green	Diethylacetamide	Green	Green	Red	-	Green
Legend						Miscellaneous					
				Compatible	Green						
				Not Compatible	Red						
				Limited Compatibility (small volumes or short contact time)	Yellow						
						Hydrogen Peroxide, 30%	Red	Green	Green	Green	Green
						Phenol, Aqueous, 10%	Red	Green	Yellow	Red	Red



Typical Experimental Procedure

Loading

Fill the syringe with the liquid sample and allow a small volume of air to enter the Syringe. This small volume of air is used as a purge to minimize fluid retention when expelling the liquid sample from the syringe.

Assembly

Twist the SiliCycle Syringe Filter Luer-Lok™ onto the syringe. Make sure that the Luer-Lok™ is matching with the syringe to prevent the filter from coming off during the filtration.

Filtration

Direct the SiliCycle Syringe Filter tip into the collection vessel and apply gentle pressure onto the syringe plunger. Push the liquid sample and the air volume through the SiliCycle Syringe Filter to maximize sample recovery.

SiliCycle Syringe Filters Ordering Information

SiliCycle Syringe Filter Ordering Information					
Membrane Type	Quantity per box	13 mm Diameter Sample volume: 1 - 10 mL		25 mm Diameter Sample volume: 10 - 100 mL	
		0.20 µm	0.45 µm	0.20 µm	0.45 µm
Nylon	100 / box	SF-NYL13-20	SF-NYL13-45	SF-NYL25-20	SF-NYL25-45
	500 / box	SF-NYL13-20-L	SF-NYL13-45-L	SF-NYL25-20-L	SF-NYL25-45-L
	1,000 / box	SF-NYL13-20-M	SF-NYL13-45-M	SF-NYL25-20-M	SF-NYL25-45-M
Polytetrafluoroethylene (PTFE)	100 / box	SF-PTF13-20	SF-PTF13-45	SF-PTF25-20	SF-PTF25-45
	500 / box	SF-PTF13-20-L	SF-PTF13-45-L	SF-PTF25-20-L	SF-PTF25-45-L
	1,000 / box	SF-PTF13-20-M	SF-PTF13-45-M	SF-PTF25-20-M	SF-PTF25-45-M
Polyvinylidene Fluoride (PVDF)	100 / box	SF-PVD13-20	SF-PVD13-45	SF-PVD25-20	SF-PVD25-45
	500 / box	SF-PVD13-20-L	SF-PVD13-45-L	SF-PVD25-20-L	SF-PVD25-45-L
	1,000 / box	SF-PVD13-20-M	SF-PVD13-45-M	SF-PVD25-20-M	SF-PVD25-45-M
Polyethersulfone (PES)	100 / box	SF-PES13-20	SF-PES13-45	SF-PES25-20	SF-PES25-45
	500 / box	SF-PES13-20-L	SF-PES13-45-L	SF-PES25-20-L	SF-PES25-45-L
	1,000 / box	SF-PES13-20-M	SF-PES13-45-M	SF-PES25-20-M	SF-PES25-45-M
Regenerated Cellulose (RC)	100 / box	SF-RC13-20	SF-RC13-45	SF-RC25-20	SF-RC25-45
	500 / box	SF-RC13-20-L	SF-RC13-45-L	SF-RC25-20-L	SF-RC25-45-L
	1,000 / box	SF-RC13-20-M	SF-RC13-45-M	SF-RC25-20-M	SF-RC25-45-M

* Contact us for 4 mm membrane diameter, 1 mm pre-filter, and sterile syringe filters.

SiliCycle® Membrane Filters



Advantages of using SiliCycle Membrane Filters for your filtrations:

- Broad portfolio to cover all purification needs: 25 mm & 47 mm diameter available in 0.20 µm & 0.45 µm pore size.
- Many choices of membrane types to suit all fields of applications.



Fast and Cost Effective Separations with SiliCycle Membrane Filters

Membrane filters consist in a microporous films having a specific porosity which can be used to retain components (*particles and microorganisms*) with larger pore size compared to the membrane. Table below presents an overview of SiliCycle Membrane Filters specifications and typical applications.

SiliCycle Membrane Filters Overview					
Characteristics	Nylon	Polytetrafluoroethylene (PTFE)	Polyvinylidene Fluoride (PVDF)	Polyethersulfone (PES)	Regenerated Cellulose (RC)
Membrane Specifications					
• Hydrophilic / Hydrophobic	Hydrophilic	Hydrophobic*	Hydrophobic	Hydrophilic	Hydrophilic
• Extractable level	Extremely low	Low	Low	Low	Low
Chemical & Thermal Properties					
• Chemical resistance	Very good	Higher resistance	Good	Lower resistance	Good
• pH stability range	3 - 12	1 - 14	1 - 14	1 - 14	3 - 12
• Autoclavable	Yes	Yes	Yes	Yes	Yes
• Protein binding capacity	Medium	Low	Very low	Medium	Very low
Typical Applications: Sample Preparation prior to...					
• GC analysis	Preferred	Alternative	-	Alternative	Alternative
• HPLC analysis	Preferred	-	-	-	-
• ICP-MS or AAS analysis	Preferred	-	-	Preferred	Alternative
• Ion chromatography	-	-	-	Preferred	-
Typical Applications: Solvent Filtration & Sterilization of...					
• Agressive solutions	Alternative	Preferred	-	-	Alternative
• Aqueous solutions	Preferred	-	-	-	Alternative
• Organic solutions	Preferred	-	-	-	Alternative
Typical Applications: Filtration & Sterilization for...					
• Biomolecules analysis	Alternative	-	Preferred	Preferred	Alternative
• Clinical & forensic analysis	-	-	-	Preferred	Alternative
• Environmental analysis	Preferred	Preferred	-	-	Alternative
• Food & beverage analysis	Preferred	Preferred	-	-	Alternative
Venting Applications	-	Preferred	-	-	-

* Hydrophilic character in presence of alcohol and water.



SiliCycle Membrane Filters Ordering Information

SiliCycle Membrane Filters Ordering Information (100/box)				
Membrane Type	25 mm Membrane Diameter		47 mm Membrane Diameter	
	0.20 μm	0.45 μm	0.20 μm	0.45 μm
Nylon	MF-NYL25-20	MF-NYL25-45	MF-NYL47-20	MF-NYL47-45
Polytetrafluoroethylene (PTFE)	MF-PTF25-20	MF-PTF25-45	MF-PTF47-20	MF-PTF47-45
Polyvinylidene Fluoride (PVDF)	MF-PVD25-20	MF-PVD25-45	MF-PVD47-20	MF-PVD47-45
Polyethersulfone (PES)	MF-PES25-20	MF-PES25-45	MF-PES47-20	MF-PES47-45
Regenerated Cellulose (RC)	MF-RC25-20	MF-RC25-45	MF-RC47-20	MF-RC47-45

* Contact us if you are looking for a membrane not listed inside this table.



25 mm
Membrane Diameter



47 mm
Membrane Diameter

SiliCycle® Vials & Caps



Using SiliCycle Vials & Caps ensures the following benefits:

- Compatible with most autosamplers.
- Tight seal each and every time.
- Affordable price and excellent quality.
- Wide range of products available.



SiliCycle Vials & Caps Are Adapted to your Sample Requirements

Vials & Caps are new consumables that SiliCycle now offers to help customers with their day-to-day sample handling needs. SiliCycle Vials & Caps are compatible with most autosampler systems. They respect general characteristics offering the right product with optimal results. These characteristics are; sample volume, volatility, stability, chemical compatibility, and the type of autosampler (*robotic specifications*).

The SiliCycle Vials & Caps portfolio also offers products that are adapted to all types of samples and for specific storage conditions. Product characteristics such as the type of glass, type of septum and type of vial closure can be easily be selected to fit your needs.

Type of Glass

Clear Glass

SiliCycle uses USP Type 1 glass which is a borosilicate presenting the lowest leaching characteristics. This glass has an expansion coefficient of 33. It is a clear glass that does not offer protection from light.

Amber Glass

SiliCycle also uses USP Type 1 glass with an expansion coefficient of 51. The amber glass protects the sample from light.

Type of Closure

Snap-Top Vial

This type of vial closure is an extension of the crimp-top vial system but the plastic cap is stretched over the rim of the vial to seal the septum. This is the least reproducible sealed system. This type of vial is not recommended for volatile samples.

Crimp-Top Vial

This type of vial prevents evaporation of the sample because the seal is squeezed between the glass vial rim and the aluminum cap. A crimper is required to seal the cap on the vial.

Screw-Top Vial

This type of vial is the universal and most used vial. Users need simply to screw the cap to seal the septum between the cap and the glass rim. No tool is required.



SiliCycle Snap-Top Vials and Snap Caps

SiliCycle snap-top vials and caps are designed to rapidly seal sample prior to analysis. Because the snap sealing technology is less secure than the screw and the crimp technology, it is highly recommended to use these vials for short time storage and/or for low volatile samples. Snap-top vials are compatible with almost all autosamplers including autosamplers with robotic arms (*refer to the Autosampler Compatibility Table page 155*).

Snap-Top Vials Using 11 mm Snap Caps



2SP-C11-C



2SP-A11-C



2SP-CW11-C



2SP-AW11-C



1-5HSP-C11-C



0-3SP-C11-D



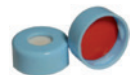
0-3SP-A11-D

SiliCycle Snap-Top Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Snap-Top Large Opening Clear Vial	12 x 32	2.0	2SP-C11-C	2SP-C11-M
Snap-Top Large Opening Amber Vial	12 x 32	2.0	2SP-A11-C	2SP-A11-M
Snap-Top Large Opening Clear Vial with White Patch	12 x 32	2.0	2SP-CW11-C	2SP-CW11-M
Snap-Top Large Opening Amber Vial with White Patch	12 x 32	2.0	2SP-AW11-C	2SP-AW11-M
Snap-Top High Recovery Clear Vial	12 x 32	1.5	1-5HSP-C11-C	1-5HSP-C11-M
Snap-Top Fused Insert Clear Vial (0.3 mL)	12 x 32	0.3	500/box, 0-3SP-C11-D	
Snap-Top Fused Insert Amber Vial (0.3 mL)	12 x 32	0.3	500/box, 0-3SP-A11-D	



CSP11-MI-C



BSP11-MI-C



NSP11-MI-C



RSP11-MI-C



YSP11-MI-C



CSP11-JI-C



CSP11-KSI-C



BSP11-KSI-M

SiliCycle Snap Cap Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
11 mm Clear Snap Cap	PP	Red PTFE/White Silicone	0.040/1.0	CSP11-MI-C	CSP11-MI-M
11 mm Blue Snap Cap	PP	Red PTFE/White Silicone	0.040/1.0	BSP11-MI-C	BSP11-MI-M
11 mm Black Snap Cap	PP	Red PTFE/White Silicone	0.040/1.0	NSP11-MI-C	NSP11-MI-M
11 mm Red Snap Cap	PP	Red PTFE/White Silicone	0.040/1.0	RSP11-MI-C	RSP11-MI-M
11 mm Yellow Snap Cap	PP	Red PTFE/White Silicone	0.040/1.0	YSP11-MI-C	YSP11-MI-M
11 mm Clear Snap Cap	PP	Red PTFE/White Silicone/Red PTFE	0.040/1.0	CSP11-JI-C	CSP11-JI-M
11 mm Clear Snap Cap, Slit	PP	Blue PTFE/White Silicone	0.040/1.0	CSP11-KSI-C	CSP11-KSI-M
11 mm Blue Snap Cap, Slit	PP	Blue PTFE/White Silicone	0.040/1.0	BSP11-KSI-C	BSP11-KSI-M

PP = Polypropylene

SiliCycle Crimp-Top Vials and Crimp Caps

SiliCycle crimp-top vials and caps are designed to be the safest alternative to seal sample prior to analysis or storage. When properly assembled, these vials are the best alternative for long-term storage and/or for high volatile solvents. Crimp-top vials are compatible with almost all autosamplers available on the market, including autosamplers with robotic arms (refer to the *Autosampler Compatibility Table* page 155).

Crimp-Top Vials Using 8 mm Crimp Caps



1-2CP-C8-D 1CPT-C8-D 0-8CP-C8-D 0-8CPZ-C8-D 0-7CP-A8-D 0-7CP-C8-D

SiliCycle Crimp-Top Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Quantity per box	Product Number
Crimp-Top Clear Vial	8 x 40	1.2	500	1-2CP-C8-D
Crimp-Top Tapered Bottom Clear Vial	8 x 40	1.0	500	1CPT-C8-D
Crimp-Top Clear Vial	8 x 30	0.8	500	0-8CP-C8-D
Crimp-Top Clear Vial	7 x 40	0.8	500	0-8CPZ-C8-D
Crimp-Top Tapered bottom Amber Vial	7 x 40	0.7	500	0-7CP-A8-D
Crimp-Top Tapered bottom Clear Vial	7 x 40	0.7	500	0-7CP-C8-D



ALCP8-MI-C



ALCP8-JI-C



ALCP8-CI-C

SiliCycle Crimp Cap Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
8 mm Crimp Cap	Al	Red PTFE/White Silicone	0.040/1.0	ALCP8-MI-C	ALCP8-MI-M
8 mm Crimp Cap	Al	Red PTFE/White Silicone/Red PTFE	0.040/1.0	ALCP8-JI-C	ALCP8-JI-M
8 mm Crimp Cap	Al	Clear FEP/Orange Silicone	0.040/1.0	ALCP8-CI-C	ALCP8-CI-M

Al = Aluminum



Crimp-Top Vials Using 11 mm Crimp Caps



SiliCycle Crimp-Top Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Crimp-Top Large Opening Clear Vial	12 x 32	2.0	2CP-C11-C	2CP-C11-M
Crimp-Top Large Opening Amber Vial	12 x 32	2.0	2CP-A11-C	2CP-A11-M
Crimp-Top Large Opening Clear Vial with White Patch	12 x 32	2.0	2CP-CW11-C	2CP-CW11-M
Crimp-Top Large Opening Amber Vial with White Patch	12 x 32	2.0	2CP-AW11-C	2CP-AW11-M
Crimp-Top Clear Vial	15 x 46	4.0	500/box, 4CP-C11-D	
Crimp-Top Clear Vial	12 x 40	2.5	500/box, 2-5CP-C11-D	
Crimp-Top Round Bottom Clear Vial with White Patch	12 x 32	2.0	500/box, 2CPR-CW11-D	
Crimp-Top High Recovery Clear Vial	12 x 32	1.5	100/box, 1-5HCP-C11-C	
Crimp-Top Tapered Bottom Clear Vial	12 x 32	1.1	500/box, 1-1CPT-C11-D	
Crimp-Top Tapered Bottom Amber Vial	12 x 32	1.1	500/box, 1-1CPT-A11-D	
Crimp-Top Tapered Bottom Clear Vial	10 x 32	0.9	500/box, 0-9CPT-C11-D	
Crimp-Top Fused Insert Clear Vial	12 x 32	0.9	500/box, 0-9CP-C11-D	
Crimp-Top Fused Insert Clear Vial	12 x 32	0.3	500/box, 0-3CP-C11-D	
Crimp-Top Fused Insert Amber Vial	12 x 32	0.3	500/box, 0-3CP-A11-D	



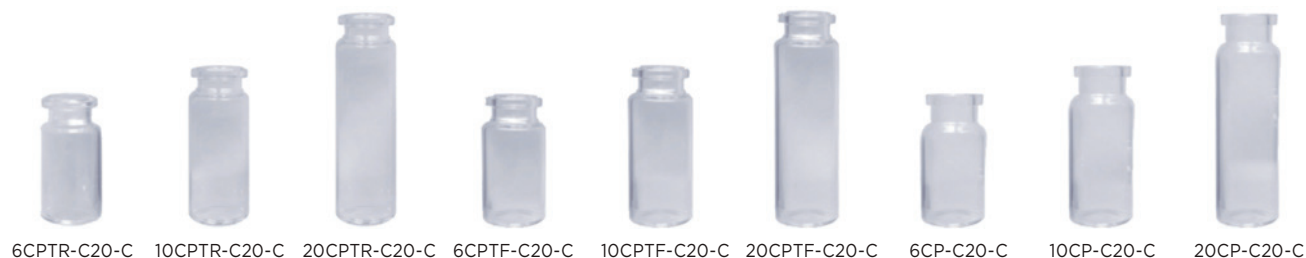
SiliCycle Crimp Cap Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
11 mm Aluminum Crimp Cap	Al	Clear FEP/Orange Silicone	0.040/1.0	ALCP11-CI-C	ALCP11-CI-M
11 mm Blue Crimp Cap	Al	Clear FEP/Orange Silicone	0.040/1.0	BCP11-CI-C	BCP11-CI-M
11 mm Red Crimp Cap	Al	Clear FEP/Orange Silicone	0.040/1.0	RCP11-CI-C	RCP11-CI-M
11 mm Green Crimp Cap	Al	Clear FEP/Orange Silicone	0.040/1.0	GCP11-CI-C	GCP11-CI-M
11 mm Yellow Crimp Cap	Al	Clear FEP/Orange Silicone	0.040/1.0	YCP11-CI-C	YCP11-CI-M
11 mm Aluminum Crimp Cap	Al	Red PTFE/White Silicone	0.040/1.0	ALCP11-MI-C	ALCP11-MI-M
11 mm Aluminum Magnetic Crimp Cap	Al	Red PTFE/White Silicone	0.040/1.0	ALCP11-MIM-C	ALCP11-MIM-M
11 mm Aluminum Magnetic Crimp Cap	Al	Clear FEP/Orange Silicone	0.040/1.0	ALCP11-CIM-C	ALCP11-CIM-M
11 mm Aluminum Magnetic Crimp Cap	Al	Red PTFE/White Silicone/Red PTFE	0.040/1.0	ALCP11-JIM-C	ALCP11-JIM-M

Al = Aluminum

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Crimp-Top Vials (*Headspace*) Using 20 mm Crimp Caps



SiliCycle Crimp-Top (*Headspace*) Vial Products

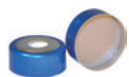
Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Crimp-Top Tapered Top/Radius Bottom Clear Vial	22 x 38	6.0	6CPTR-C20-C	6CPTR-C20-M
Crimp-Top Tapered Top/Radius Bottom Clear Vial	22 x 46	10.0	10CPTR-C20-C	10CPTR-C20-M
Crimp-Top Tapered Top/Radius Bottom Clear Vial	22 x 75	20.0	20CPTR-C20-C	20CPTR-C20-M
Crimp-Top Tapered Top/Flat Bottom Clear Vial	22 x 38	6.0	6CPTF-C20-C	6CPTF-C20-M
Crimp-Top Tapered Top/Flat Bottom Clear Vial	22 x 46	10.0	10CPTF-C20-C	10CPTF-C20-M
Crimp-Top Tapered Top/Flat Bottom Clear Vial	22 x 75	20.0	20CPTF-C20-C	20CPTF-C20-M
Crimp-Top Standard Top/Flat Bottom Clear Vial	22 x 38	6.0	6CP-C20-C	6CP-C20-M
Crimp-Top Standard Top/Flat Bottom Clear Vial	22 x 46	10.0	10CP-C20-C	10CP-C20-M
Crimp-Top Standard Top/Flat Bottom Clear Vial	22 x 75	20.0	20CP-C20-C	20CP-C20-M



GOCP20-5DIM-C



GOCP20-8DIM-C



BMCP20-DIM-C



ALCP20-BI-C



0800-B0125-C



0800-N0125-C



ALCP20-M-M

SiliCycle Crimp Cap and Septum Products

Description	Cap	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
20 mm Gold Magnetic Crimp Cap (5 mm)	Al	Natural PTFE/White Ultra Low Bleed Silicone	0.125/3.0	GOCP20-5DIM-C	GOCP20-5DIM-M
20 mm Gold Magnetic Crimp Cap (8 mm)	Al	Natural PTFE/White Ultra Low Bleed Silicone	0.125/3.0	GOCP20-8DIM-C	GOCP20-8DIM-M
20 mm Bi-Metallic Magnetic Crimp Cap	Al/Ti	Natural PTFE/White Ultra Low Bleed Silicone	0.125/3.0	BMCP20-DIM-C	BMCP20-DIM-M
20 mm Aluminum Crimp Cap	Al	Natural PTFE/White Ultra Low Bleed Silicone	0.125/3.0	ALCP20-BI-C	ALCP20-BI-M
20 mm Gold Magnetic Crimp Cap (5 mm)	Al	White PTFE/White Silicone	0.125/3.0	GOCP20-5MIM-C	GOCP20-5MIM-M
20 mm Gold Magnetic Crimp Cap (8 mm)	Al	White PTFE/White Silicone	0.125/3.0	GOCP20-8MIM-C	GOCP20-8MIM-M
20 mm Aluminum Crimp Cap	Al	White PTFE/White Ultra Low Bleed Silicone	0.125/3.0	ALCP20-NI-C	ALCP20-NI-M
20 mm Bi-Metallic Magnetic Crimp Cap	Al/Ti	White PTFE/White Ultra Low Bleed Silicone	0.125/3.0	BMCP20-NIM-C	BMCP20-NIM-M
20 mm Gold Magnetic Crimp Cap (5 mm)	Al	White PTFE/White Ultra Low Bleed Silicone	0.040/1.0	GOCP20-5NIM-C	GOCP20-5NIM-M
20 mm Gold Magnetic Crimp Cap (8 mm)	Al	White PTFE/White Ultra Low Bleed Silicone	0.040/1.0	GOCP20-8NIM-C	GOCP20-8NIM-M
0.800" Septum	-	Natural PTFE/White Ultra Low Bleed Silicone	0.040/1.0	0800-B0125-C	0800-B0125-M
0.800" Septum	-	White PTFE/White Ultra Low Bleed Silicone	0.040/1.0	0800-N0125-C	0800-N0125-M
20 mm Gold Magnetic Crimp Cap (5 mm)	Al	-	-	-	GOCP20-5M-M
20 mm Gold Magnetic Crimp Cap (8 mm)	Al	-	-	-	GOCP20-8M-M
20 mm Aluminum Crimp Cap	Al	-	-	-	ALCP20-M-M

Al = Aluminum, Al/Ti = Aluminum/Tin Plate

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SiliCycle Screw-Top Vials and Screw Caps

SiliCycle screw-top vials and caps are developed to be easily reusable. No tools are required to securely seal the sample comparatively to crimp-top vials and caps. Screw-top technology provides low evaporation and rapid alternative for volatile sample storage and/or analysis. Screw-top vials are compatible with almost all autosamplers available on the market (refer to the *Autosampler Compatibility Table* page 155).

Screw-Top Vials (*Standard Opening*) Using 8 mm Screw Caps



2SW-C8-C



2SW-A8-C



2SW-CW8-C



2SW-AW8-C

SiliCycle Screw-Top (*Standard Opening*) Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Screw-Top Standard Opening Clear Vial	12 x 32	2.0	2SW-C8-C	2SW-C8-M
Screw-Top Standard Opening Amber Vial	12 x 32	2.0	2SW-A8-C	2SW-A8-M
Screw-Top Standard Opening Clear Vial with White Patch	12 x 32	2.0	2SW-CW8-C	2SW-CW8-M
Screw-Top Standard Opening Amber Vial with White Patch	12 x 32	2.0	2SW-AW8-C	2SW-AW8-M



NSW8-HI-C



NSW8-HSI-C



NSW8-KI-C



NSW8-KSI-C



NSW8-JI-C



NSW8-C

SiliCycle Screw Cap and Septum Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
8 mm Black Screw Cap	PP	Red PTFE/White Silicone	0.060/1.5	NSW8-HI-C	NSW8-HI-M
8 mm Black Screw Cap, Slit	PP	Red PTFE/White Silicone	0.060/1.5	NSW8-HSI-C	NSW8-HSI-M
8 mm Black Screw Cap	PP	Blue PTFE/White Silicone	0.060/1.5	NSW8-KI-C	NSW8-KI-M
8 mm Black Screw Cap, Slit	PP	Blue PTFE/White Silicone	0.060/1.5	NSW8-KSI-C	NSW8-KSI-M
8 mm Black Screw Cap	PP	Red PTFE/White Silicone/Red PTFE	0.060/1.5	NSW8-JI-C	NSW8-JI-M
0.321" Septum	-	Red PTFE/White Silicone	0.060/1.5	0321-H0060-C	0321-H0060-M
0.321" Slit Septum	-	Red PTFE/White Silicone	0.060/1.5	0321-HS0060-C	0321-HS0060-M
0.321" Septum	-	Blue PTFE/White Silicone	0.060/1.5	0321-K0060-C	0321-K0060-M
0.321" Slit Septum	-	Blue PTFE/White Silicone	0.060/1.5	0321-KS0060-C	0321-KS0060-M
0.321" Septum	-	Red PTFE/White Silicone/Red PTFE	0.040/1.0	0321-J0040-C	0321-J0040-M
0.321" Septum	-	Red PTFE/White Silicone/Red PTFE	0.060/1.5	0321-J0060-C	0321-J0060-M
8 mm Black Screw Cap	PP	-	-	NSW8-C	NSW8-M

PP= Polypropylene

Screw-Top Vials (*Large Opening*) Using 9 mm Screw Caps



SiliCycle Screw-Top (*Large Opening*) Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Screw-Top Large Opening Clear Vial	12 x 32	2.0	2SW-C9-C	2SW-C9-M
Screw-Top Large Opening Amber Vial	12 x 32	2.0	2SW-A9-C	2SW-A9-M
Screw-Top Large Opening Clear Vial with White Patch	12 x 32	2.0	2SW-CW9-C	2SW-CW9-M
Screw-Top Large Opening Amber Vial with White Patch	12 x 32	2.0	2SW-AW9-C	2SW-AW9-M
Screw-Top Fused Insert Polypropylene Vial	12 x 32	0.25	0-25SW-PP9-C	0-25SW-PP9-M
Screw-Top Fused Insert Polypropylene Vial	12 x 32	0.7	0-7SW-PP9-C	0-7SW-PP9-M
Screw-Top Large Opening Clear Vial	16 x 46	4.0	500/box, 4SW-C9-D	
Screw-Top High Recovery Clear Vial	12 x 32	1.5	500/box, 1-5HSW-C9-D	
Screw-Top High Recovery Amber Vial	12 x 32	1.5	500/box, 1-5HSW-A9-D	
Screw-Top Fused Insert Clear Vial	12 x 32	0.9	500/box, 0-9SW-C9-D	
Screw-Top Fused Insert Clear Vial	12 x 32	0.3	500/box, 0-3SW-C9-D	
Screw-Top Fused Insert Amber Vial	12 x 32	0.3	500/box, 0-3SW-A9-D	



SiliCycle Screw Cap and Septum Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
9 mm Blue Open-Top Screw Cap	PP	-	-	BSW9-C	BSW9-M
9 mm Black Open-Top Screw Cap	PP	-	-	NSW9-C	NSW9-M
9 mm Red Open-Top Screw Cap	PP	-	-	RSW9-C	RSW9-M
9 mm Green Open-Top Screw Cap	PP	-	-	GSW9-C	GSW9-M
9 mm Yellow Open-Top Screw Cap	PP	-	-	YSW9-C	YSW9-M
0.346" Septum	-	Red PTFE/White Silicone	0.040/1.0	0346-H0040-C	0346-H0040-M
0.346" Septum	-	White PTFE/Red Silicone	0.040/1.0	0346-P0040-C	0346-P0040-M
0.346" Septum, Slit	-	White PTFE/Red Silicone	0.040/1.0	0346-PS0040-C	0346-PS0040-M
0.346" Septum	-	Blue PTFE/White Silicone	0.040/1.0	0346-K0040-C	0346-K0040-M
0.346" Septum	-	Red PTFE/White Silicone/Red PTFE	0.040/1.0	0346-J0040-C	0346-J0040-M

PP = Polypropylene



Screw-Top Vials (Large Opening) Using 9 mm Screw Caps (con't)



BSW9-HI-C



BSW9-HSI-C



BSW9-HB-C



NSW9-HI-C



RSW9-HI-C



GSW9-HI-C



YSW9-HI-C



BSW9-OB-C



BSW9-BI-C



BSW9-PI-C



NSW9-PI-C



NSW9-PSI-C



BSW9-KI-C



BSW9-KSI-C



BSW9-KSB-C



NSW9-KI-C



NSW9-KSI-C



BSW9-JI-C



BSW9-EI-C



NSW9-EI-C



NSW9-ESI-C

SiliCycle Screw-Top (Large Opening) Cap Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
9 mm Blue Screw Cap	PP	Red PTFE/White Silicone	0.040/1.0	BSW9-HI-C	BSW9-HI-M
9 mm Blue Screw Cap, Slit	PP	Red PTFE/White Silicone	0.040/1.0	BSW9-HSI-C	BSW9-HSI-M
9 mm Blue Screw Cap, Bonded	PP	Red PTFE/White Silicone	0.040/1.0	BSW9-HB-C	BSW9-HB-M
9 mm Black Screw Cap	PP	Red PTFE/White Silicone	0.040/1.0	NSW9-HI-C	NSW9-HI-M
9 mm Red Screw Cap	PP	Red PTFE/White Silicone	0.040/1.0	RSW9-HI-C	RSW9-HI-M
9 mm Green Screw Cap	PP	Red PTFE/White Silicone	0.040/1.0	GSW9-HI-C	GSW9-HI-M
9 mm Yellow Screw Cap	PP	Red PTFE/White Silicone	0.040/1.0	YSW9-HI-C	YSW9-HI-M
9 mm Blue Screw Cap, Bonded	PP	White PTFE/Orange Silicone	0.040/1.0	BSW9-OB-C	BSW9-OB-M
9 mm Blue Screw Cap	PP	Clear PTFE/Orange Silicone	0.040/1.0	BSW9-BI-C	BSW9-BI-M
9 mm Blue Screw Cap	PP	White PTFE/Red Silicone	0.040/1.0	BSW9-PI-C	BSW9-PI-M
9 mm Blue Screw Cap, Slit	PP	White PTFE/Red Silicone	0.040/1.0	BSW9-PSI-C	BSW9-PSI-M
9 mm Back Screw Cap	PP	White PTFE/Red Silicone	0.040/1.0	NSW9-PI-C	NSW9-PI-M
9 mm Black Screw Cap, Slit	PP	White PTFE/Red Silicone	0.040/1.0	NSW9-PSI-C	NSW9-PSI-M
9 mm Blue Screw Cap	PP	Blue PTFE/White Silicone	0.040/1.0	BSW9-KI-C	BSW9-KI-M
9 mm Blue Screw Cap, Slit	PP	Blue PTFE/White Silicone	0.040/1.0	BSW9-KSI-C	BSW9-KSI-M
9 mm Blue Screw Cap, Slit, Bonded	PP	Blue PTFE/White Silicone	0.040/1.0	BSW9-KSB-C	BSW9-KSB-M
9 mm Black Screw Cap	PP	Blue PTFE/White Silicone	0.040/1.0	NSW9-KI-C	NSW9-KI-M
9 mm Black Screw Cap, Slit	PP	Blue PTFE/White Silicone	0.040/1.0	NSW9-KSI-C	NSW9-KSI-M
9 mm Blue Screw Cap	PP	Red PTFE/White Silicone/Red PTFE	0.040/1.0	BSW9-JI-C	BSW9-JI-M
9 mm Blue Screw Cap	PP	Natural PTFE/White Silicone	0.040/1.0	BSW9-EI-C	BSW9-EI-M
9 mm Black Screw Cap	PP	Natural PTFE/White Silicone	0.040/1.0	NSW9-EI-C	NSW9-EI-M
9 mm Black Screw Cap, Slit	PP	Natural PTFE/White Silicone	0.040/1.0	NSW9-ESI-C	NSW9-ESI-M

PP = Polypropylene

Screw-Top Vials (*Large Opening*) Using 10 mm Screw Caps



2SW-C10-C



2SW-A10-C



2SW-CW10-C



2SW-AW10-C

SiliCycle Screw-Top (*Large Opening*) Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Screw-Top Large Opening Clear Vial	12 x 32	2.0	2SW-C10-C	2SW-C10-M
Screw-Top Large Opening Amber Vial	12 x 32	2.0	2SW-A10-C	2SW-A10-M
Screw-Top Large Opening Clear Vial with White Patch	12 x 32	2.0	2SW-CW10-C	2SW-CW10-M
Screw-Top Large Opening Amber Vial with White Patch	12 x 32	2.0	2SW-AW10-C	2SW-AW10-M



NSW10-HI-C



NSW10-HSI-C



WSW10-HI-C



0374-H0060-C



0374-HS0060-C



NSW10-C



WSW10-C

SiliCycle Screw Cap and Septum Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
10 mm Black Screw Cap	PP	Red PTFE/White Silicone	0.060/1.5	NSW10-HI-C	NSW10-HI-M
10 mm Black Screw Cap, Slit	PP	Red PTFE/White Silicone	0.060/1.5	NSW10-HSI-C	NSW10-HSI-M
10 mm White Screw Cap	PP	Red PTFE/White Silicone	0.060/1.5	WSW10-HI-C	WSW10-HI-M
0.374" Septum	-	Red PTFE/White Silicone	0.060/1.5	0374-H0060-C	0374-H0060-M
0.374" Septum, Slit	-	Red PTFE/White Silicone	0.040/1.0	0374-HS0060-C	0374-HS0060-M
10 mm Black Screw Cap	PP	-	-	NSW10-C	NSW10-M
10 mm White Screw Cap	PP	-	-	WSW10-C	WSW10-M

PP= Polypropylene



Screw-Top Vials (*Large Opening*) Using 13 mm Screw Caps



4SW-C13-C



4SW-A13-C



4SW-CW13-C



4SW-AW13-C



3-5HSW-C13-E

SiliCycle Screw-Top (*Large Opening*) Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Screw-Top Large Opening Clear Vial	15 x 45	4.0	4SW-C13-C	4SW-C13-M
Screw-Top Large Opening Amber Vial	15 x 45	4.0	4SW-A13-C	4SW-A13-M
Screw-Top Large Opening Clear Vial with White Patch	15 x 45	4.0	4SW-CW13-C	4SW-CW13-M
Screw-Top Large Opening Amber Vial with White Patch	15 x 45	4.0	4SW-AW13-C	4SW-CW13-M
Screw-Top High Recovery Clear Vial	15 x 45	3.5	250/box, 3-5HSW-C13-E	



NSW13-HI-C



NSW13-HSI-C



NSW13-HB-C



NSW13-HSB-C



NSW13-ZHI-C



NSW13-ZHSI-C



NSW13-C



0479-H0060-C



0479-HS0060-C



0479-H0075-C



0479-HS0075-C

SiliCycle Screw Cap and Septum Products

Description	Cap Material	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
13 mm Black Screw Cap	PP	Red PTFE/White Silicone	0.060/1.5	NSW13-HI-C	NSW13-HI-M
13 mm Black Screw Cap, Slit	PP	Red PTFE/White Silicone	0.060/1.5	NSW13-HSI-C	NSW13-HSI-M
13 mm Black Screw Cap, Bonded	PP	Red PTFE/White Silicone	0.060/1.5	NSW13-HB-C	NSW13-HB-M
13 mm Black Screw Cap, Slit, Bonded	PP	Red PTFE/White Silicone	0.060/1.5	NSW13-HSB-C	NSW13-HSB-M
13 mm Black Screw Cap	PP	Red PTFE/White Silicone	0.075/1.9	NSW13-ZHI-C	NSW13-ZHI-M
13 mm Black Screw Cap, Slit	PP	Red PTFE/White Silicone	0.075/1.9	NSW13-ZHSI-C	NSW13-ZHSI-M
13 mm Black Screw Cap	PP	-	-	NSW13-C	WSW13-M
0.479" Septum	-	Red PTFE/White Silicone	0.060/1.5	0479-H0060-C	0479-H0060-M
0.479" Septum, Slit	-	Red PTFE/White Silicone	0.060/1.5	0479-HS0060-C	0479-HS0060-M
0.479" Septum	-	Red PTFE/White Silicone	0.075/1.9	0479-H0075-C	0479-H0075-M
0.479" Septum, Slit	-	Red PTFE/White Silicone	0.075/1.9	0479-HS0075-C	0479-HS0075-M

PP= Polypropylene

Screw-Top Vials (*Headspace*) Using 18 mm Screw Caps



10SW-C18-C



10SW-A18-C



20SW-C18-C



20SW-A18-C

SiliCycle Screw-Top (*Headspace*) Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
Screw-Top Standard Opening Clear Vial	22 x 46	10.0	10SW-C18-C	10SW-C18-M
Screw-Top Standard Opening Amber Vial	22 x 46	10.0	10SW-A18-C	10SW-A18-M
Screw-Top Standard Opening Clear Vial	22 x 76	20.0	20SW-C18-C	20SW-C18-M
Screw-Top Standard Opening Amber Vial	22 x 76	20.0	20SW-A18-C	20SW-A18-M



ALSW18-LIM-C



ALSW18-IIM-C



ALSW18-ZQIM-C



ALSW18-QIM-C



0680-I0050-C



0680-L0060-C



0680-Q0125-C



0680-Q0050-C

SiliCycle Screw Cap (*Headspace*) and Septum Products

Description	Cap	Septum	Thickness (in/mm)	Product Number	
				100/box	1,000/box
18 mm Magnetic Aluminum Screw Cap	Al	Blue PTFE/White Ultra Low Bleed Silicone	0.060/1.5	ALSW18-LIM-C	ALSW18-LIM-M
18 mm Magnetic Aluminum Screw Cap	Al	Red PTFE/White Ultra Low Bleed Silicone	0.050/1.3	ALSW18-IIM-C	ALSW18-IIM-M
18 mm Magnetic Aluminum Screw Cap	Al	White PTFE/Translucent Blue Ultra Low Bleed Silicone	0.125/3.0	ALSW18-ZQIM-C	ALSW18-ZQIM-M
18 mm Magnetic Aluminum Screw Cap	Al	White PTFE/Translucent Blue Ultra Low Bleed Silicone	0.050/1.3	ALSW18-QIM-C	ALSW18-QIM-M
0.680" Septum	-	Blue PTFE/White Ultra Low Bleed Silicone	0.060/1.5	0680-L0060-C	0680-L0060-M
0.680" Septum	-	Red PTFE/White Ultra Low Bleed Silicone	0.050/1.3	0680-I0050-C	0680-I0050-M
0.680" Septum	-	White PTFE/Translucent Blue Ultra Low Bleed Silicone	0.125/3.0	0680-Q0125-C	0680-Q0125-M
0.680" Septum	-	White PTFE/Translucent Blue Ultra Low Bleed Silicone	0.050/1.3	0680-Q0050-C	0680-Q0050-M

Al = Aluminum



Insert Vials for Microsampling



0-3IF-C9-M



0-2IT-C8-D



0-2IT-C9-M



0-2IF-C8-M

SiliCycle Insert Vial Products

Description	Insert Vial	Vial Size OD x Height (mm)	Capacity (mL)	Quantity per box	Product Number
Flat Bottom Clear Vial Insert	9 mm Screw-Top 11 mm Snap-Top 11 mm Crimp-Top	6 x 31	0.3	1,000	0-3IF-C9-M
Tapered Bottom Clear Vial Insert	8 mm Screw-Top	5 x 30	0.2	500	0-2IT-C8-D
Flat Bottom Clear Vial Insert	9 mm Screw-Top 11 mm Snap-Top 11 mm Crimp-Top	6 x 30	0.2	1,000	0-2IT-C9-M
Tapered Bottom Clear Vial Insert	8 mm Screw-Top	5 x 31	0.2	1,000	0-2IF-C8-M

Shell (Neckless) Vials and Caps



1SLF-C8-D



2SLF-C12-D

SiliCycle Shell (Neckless) Vial Products

Description	Vial Size OD x Height (mm)	Capacity (mL)	Quantity per box	Product Number
Shell Flat Bottom Clear Vial	8 x 40	1.0	500	1SLF-C8-D
Shell Flat Bottom Clear Vial	12 x 32	2.0	500	2SLF-C12-D



CSL8-M



CSL12-M

SiliCycle Cap Products for Shell Vials

Description	Cap Material	Product Number 1,000/box
8 mm Clear Cap for Shell Vial	PE	CSL8-M
12 mm Clear Cap for Shell Vial	PE	CSL12-M

PE= Polyethylene

EPA Type Screw-Top Vials and Screw Caps

SiliCycle EPA screw-top vials and caps are developed to meet USP and EPA standard for water samples and/or environmental testing. Neutral borosilicate type 1 glass clear and amber are used coupled to an ultra low or an extreme low bleed septa liner ensure tight sealed samples prior analysis.

EPA Screw-Top Vials Using 24 mm Screw Caps



SiliCycle EPA Type Screw-Top Vial Products				
Description	Vial Size OD x Height (mm)	Capacity (mL)	Product Number	
			100/box	1,000/box
EPA Screw-Top Clear Vial	28 x 57	20.0	20SW-C24-C	20SW-C24-M
EPA Screw-Top Amber Vial	28 x 57	20.0	20SW-A24-C	20SW-A24-M
EPA Screw-Top Clear Vial	28 x 70	30.0	30SW-C24-C	30SW-C24-M
EPA Screw-Top Amber Vial	28 x 70	30.0	30SW-A24-C	30SW-A24-M
EPA Screw-Top Clear Vial	28 x 95	40.0	40SW-C24-C	40SW-C24-M
EPA Screw-Top Amber Vial	28 x 95	40.0	40SW-A24-C	40SW-A24-M











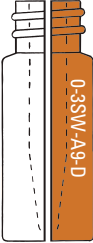
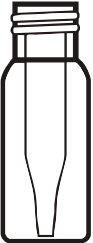




SiliCycle EPA Type Screw Cap and Septum Products					
Description	Cap	Septum	Thickness (in/mm)	Product Number	
				100/box	500/box
24 mm EPA Type Black Screw Cap	PP	Natural PTFE/Clear Extreme Low Bleed Silicone	0.125/3.0	NSW24-RI-C	NSW24-RI-D
24 mm EPA Type White Screw Cap	PP	Natural PTFE/Clear Extreme Low Bleed Silicone	0.125/3.0	WSW24-RI-C	WSW24-RI-D
24 mm EPA Type White Screw Cap	PP	Natural PTFE/Clear Ultra Low Bleed Silicone	0.125/3.0	WSW24-GI-C	WSW24-GI-D
24 mm EPA Type White Screw Cap, Bonded	PP	Natural PTFE/Clear Extreme Low Bleed Silicone	0.060/1.5	WSW24-RB-C	WSW24-RB-D
24 mm EPA Type Black Screw Cap, Bonded	PP	Natural PTFE/Clear Extreme Low Bleed Silicone	0.125/3.0	NSW24-RB-C	NSW24-RB-D
24 mm EPA Type White Screw Cap, Bonded	PP	Natural PTFE/Clear Extreme Low Bleed Silicone	0.125/3.0	WSW24-GB-C	WSW24-GB-D
0.880" Septum	-	Natural PTFE/Clear Extreme Low Bleed Silicone	0.060/1.5	0880-R0060-C	0880-R0060-D
0.880" Septum	-	Natural PTFE/Clear Extreme Low Bleed Silicone	0.125/3.0	0880-R0125-C	0880-R0125-D
0.880" Septum	-	Natural PTFE/Clear Ultra Low Bleed Silicone	0.125/3.0	0880-G0125-C	0880-G0125-D


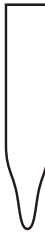







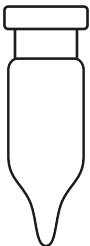
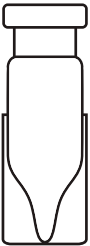


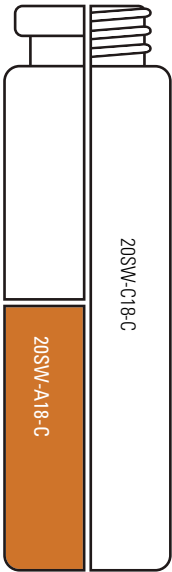
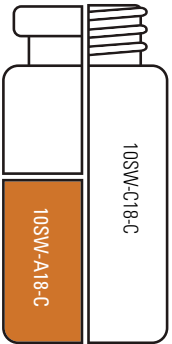
PP= Polypropylene



SiliCycle Vials Comparison Chart (Actual Size)

Product No. Dimensions	 8-CPZ-C8-D 7 x 40 mm	 0-8CP-C8-D 8 x 30 mm	 0-7CP-A8-D 7 x 40 mm	 1-2CP-C8-D 8 x 40 mm	 1CPT-C8-D 8 x 40 mm
Part No. Dimensions	 2SW-C8-C 12 x 32 mm	 2SW-C9-C 12 x 32 mm	 4SW-C9-D 15 x 45 mm	 1-5HSW-C9-D 12 x 32 mm	 0-3CP-A11-D 12 x 32 mm
Part No. Dimensions	 0-3SW-C9-D 12 x 32 mm	 0-9SW-C9-D 12 x 32 mm	 2-5CP-C11-D 12 x 40 mm	 4CP-C11-D 15 x 46 mm	

SiliCycle Vials Comparison Chart (con't)

								
Part No.	0-2IT-C8-D	0-2IT-C9-M	0-2IF-C8-M	0-3IF-C9-M				
Dimensions	5 x 30 mm	6 x 30 mm	5 x 31 mm	6 x 31 mm				
								
Part No.	2CP-A11-C	2CPR-CW11-D	1-1CPT-A11-D	1-5HSP-C11-C	2SP-A11-C			
Dimensions	12 x 32 mm	12 x 32 mm	12 x 32 mm	12 x 32 mm	12 x 32 mm			
								
Part No.	0-9CPT-C11-D	0-9CP-C11-D	0-3SP-A11-D	4SW-A13-C	20SW-C18-C	10SW-A18-C		
Dimensions	10 x 32 mm	12 x 32 mm	12 x 32 mm	15 x 45 mm	22 x 75 mm	22 x 46 mm		



Instrument and Vial Compatibility Chart

The table below 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.

Autosampler Compatibility Table										
Manufacturer	Model	8 mm Crimp	11 mm Crimp and Snap	8 mm Screw	9 mm Screw	10 mm Screw	13 mm Screw	18 mm Screw (Headspace)	Shell Vials (Neckless)	Plate (page 49)
Agilent	1050, 1090		•		•					
	1050 (34 Pos. Tray), 1090 (34 Pos. Tray)	•								
	1100/1200		•		•					
	G1888A							•		
	7673A/7683A	•	•		•					
	7693A		•	•	•		•		•	
	HS7694						•	•		
	7697A							•		
	79855(A)		•		•					
	5880/5890		•		•					
	6850 (27 Pos. Tray)		•		•					
	6850 (22 Pos. Tray)						•			
	6890		•		•					
	CTC HTS+HTC PAL+CTC GC PAL	•	•		•					•
	CTC Combi PAL								•	
1100 Well-Plate/1100 Nanoflow		•	•	•					•	
1200 Well-plate/1200 SL plus		•	•	•					•	
AI	42 vial tray		•	•	•					
	60 vial tray	•	•	•	•					
	CTC A200S	•	•	•	•					
	Headspace							•		
AIM	CPS-100+CPS-200		•	•	•					
Alcott	708 AL, 728								•	
	738, 719 D/ D-PCS		•	•	•	•				
	719 AL		•	•	•	•	•	•		
Alpha M.O.S.	Prometheus/Fox/Kronos							•		
Antec Leyden	AS 100, 736 Unisampler, 738		•	•	•	•				
	Alexys		•	•	•					
ATAS GL	Focus		•	•	•			•		
Beckman	501, 502/502e, 507/507e	•	•	•	•	•				
	504	•								
	508 (System Gold)				•			•		
	Marathon, Promis		•	•	•					
	Triathlon, Standard Tray		•	•	•			•		
	Triathlon, LSV Tray	•					•			
	Triathlon, Super-LSV Tray							•		
Triathlon, Micro-Tray	•									
Bruker	LC51						•			
	Mapi1									•
Cambridge Scientific Instruments	205 Series, 300 Series		•	•	•	•	•			

- indicates that a cap having an outer flange is required for the vial to operate properly with the autosampler.
- 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.

Autosampler Compatibility Table (con't)

Manufacturer	Model	8 mm Crimp	11 mm Crimp and Snap	8 mm Screw	9 mm Screw	10 mm Screw	13 mm Screw	18 mm Screw (Headspace)	Shell Vials (Neckless)	Plate (page 49)
Carlo Erba	AS100, A200LC, AS300	•	•	•	•				•	
	AS200, AS200S	•	•	•	•					
	AS800, 42 vial tray		•	•	•					
	AS800, 60 vial tray	•	•	•	•					
	HS250, 500, 800, 850							•		
Cecil Instruments	CE4800		•	•	•	•				
	AutoQuest		•	•	•	•				
CTC	A200S	•	•	•	•	•				
	A200 LC	•	•	•	•	•		•		
	HS 500							•		
CTC (LEAP)	LC PAL (216 Pos.)		•	•	•	•		•		
	HTX PAL, HTC PAL, HTS PAL (200 Pos. Tray), Combi PAL (200 Pos. Tray), GC PAL (200 Pos. Tray)	•								
	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)		•		•					
DANI	ALS 39.80, ALS 86.80, ALS 1000		•		•					
	HS39.50, HS86.50							•		
	Master AS		•		•			•		
	Master DHS							•		
Dionex	Gina 50	•	•		•		•			
	AS 50	•	•	•	•	•				
	Summit ASI 100, Micro-Tray (192 Pos.)	•								
	Summit ASI 100, Analytical-Tray (117 Pos.)		•	•	•					
	Summit ASI 100, Semiprep.-Tray (63 Pos.)						•			
	Famos (LC Packings/Dionex)		•	•	•	•		•		
	UltiMate Analytical, cylindrical, WPS-3000 SL, 120 Pos. Rack (2ml)		•	•	•	•		•		
	UltiMate Analytical, conical, WPS-3000 SL, 120 (3x40) Pos. Rack (1.1ml=2ml w. Inserts)		•					•		
	UltiMate Micro, conical, WPS-3000 SL, 120 (3x40) Pos. Rack (250µl), UltiMate Nano/Cap/Micro, WPS-3000 SL, 216 (3x72) Pos. Rack (1.2ml)	•							•	
	UltiMate Semipreparative, WPS-3000 SL, 66 (3x22) Pos. Rack (4ml)						•	•		
	AS 40						•		•	
AS-HV			•							
D-Star	DAS 10		•	•						
Dynatech	42 vial tray		•	•	•					
	60 vial tray	•	•	•	•					
	LC2000	•								
	GC111, GC311	•	•	•						
	LC-241	•	•	•						
Eksigent	NanoLC-AS1		•	•						
ESA	540-MT/540		•	•	•					•
EST	LC-241plus		•	•						
EST Analytical	Cobra L/S GC Autosampler; 120 vial tray		•	•	•	•				
	Cobra L/S GC Autosampler; 60 vial tray, Markelov HS9000							•		
Finnigan	A200S	•	•	•	•					

Autosampler Compatibility Table (con't)

Manufacturer	Model	8 mm Crimp	11 mm Crimp and Snap	8 mm Screw	9 mm Screw	10 mm Screw	13 mm Screw	18 mm Screw (Headspace)	Shell Vials (Neckless)	Plate (page 49)
Fisons	AS100, A200LC, AS300	•	•	•	•				•	
	AS200	•	•	•	•					
	AS200S	•	•	•	•					
	AS800, 42 vial tray		•	•	•					
	AS800, 60 vial tray	•	•	•	•					
	HS250, HS500, HS800, HS 850							•		
GBC	Avanta Ultra Z		•		•				•	
	LC 1650		•	•						
GE Healthcare	Ettan A-905		•		•	•				
GE Instruments	Sievers 900							•		
Gerstel	MPS	•	•	•	•		•	•		•
Gilson	201/202, 221/222, 231/401/232/402, Aspec, Aspec Xli, Aspec XL4			•	•				•	
	221XL/222XL, 223, 231XL/232XL/233XL	•								
	Nano Injektor			•	•					
	235/235P/SP 235/SP 235P	•		•	•					
Gynkotek	Gina 50	•	•		•		•			
HTA	HT200H							•		
	HT250D, HT280T, HT300L		•	•	•	•		•		
	HT300A, HT310A		•	•	•	•				
ICI	LC1600	•	•							
IMT GmbH	PTA3000							•		
Jasco	AS 2055/AS 2055 (i), AS 2057/AS 2057 (i), AS 2059	•	•	•	•	•				
	851/AS-950/AS-1550/AS-1555			•						
	AS-2059/AS-2059Plus			•						•
	AS-2059-SF/X-LC	•		•						•
Knauer	K-3800 (Basic Marathon), Smartline K-3950, PLATINblue AS-1		•	•	•			•		
Konik -Tech	Robokrom Static HS							•		
	Robokrom HRGC	•	•							
	Robokrom HPLC		•	•	•	•				
Kontron	MSI 660			•			•			
	360, 460	•	•	•	•					
	360/460/560/565	•	•	•	•					
LDC	713-60	•								
	Marathon, Promis		•	•	•					
Metrohm	Triathlon		•	•						
PerkinElmer	Series 200, 25 vial tray, ISS-225, 25 vial tray							•		
	Series 200, 85 vial tray, ISS-100, 85 vial tray, ISS-200, 85 vial tray, ISS-225, 85 vial tray		•			•		•		
	Series 200, 81/100 vial tray, Integral 4000, ISS-100, 100 vial tray, ISS-200, 100 vial tray		•			•				
	Series 200, 205 vial tray	•	•			•				
	Series 200, 225 vial tray	•	•							
	AI-1	•	•							
	AS-100/AS-100B	•	•							
	AS2000/AS2000B	•	•			•				
	AS-300, AS8300, Autosystem	•	•							
	HS 6, HS40/HS100/101							•		
	TurboMatrix HS16/HS40/HS40 XL/ HS40 Trap/HS110/ HS110 Trap							•		
	ISS-200, 145 vial tray	•								
	ISS-225, 205 vial tray	•	•			•				
	ISS-225, 100 vial tray + 80 vial tray		•			•				
	LC 600, 42 vial tray	•								
	LC 600, 60 vial tray		•			•				
	Clarus 400, 500, 600		•							

Autosampler Compatibility Table (con't)

Manufacturer	Model	8 mm Crimp	11 mm Crimp and Snap	8 mm Screw	9 mm Screw	10 mm Screw	13 mm Screw	18 mm Screw (Headspace)	Shell Vials (Neckless)	Plate (page 49)
Pharmacia	LKB 2157-010		•	•	•					
	LKB 2157-020	•	•							
	Akta A-900		•	•						
Polymer Laboratories	PL-AS RT		•	•	•	•	•			
	GPC 110/210		•	•						
Quma Elektronik	QHSS-40							•		
Sedere	-		•		•					
Selerity	3100		•	•						
Sepiatech	Sepmatix									•
SGE	LS-3200	•								
Shimadzu	AOC-5000	•	•		•			•		
	AOC-14/1400, AOC-17, AOC-20/20i/20s 150 Pos. Tray		•	•	•	•	•			
	AOC-20/20i/20s 96 Pos. Tray						•			
	LC-20A		•	•	•	•	•			
	SIL-2AS, SIL-6A, SIL-10A/SIL-10AF/SIL-10AP/SIL-10Ai/SIL-10AxL/Rack S 100 Pos.	•	•	•	•	•	•		•	
	SIL-6B/SIL-7A/SIL-8A/SIL-9A		•	•	•	•	•		•	
	SIL-10A/SIL-10AF/SIL-10AP/SIL-10Ai/SIL-10AxL/Rack L 80 Pos.						•		•	
	SIL-10A/SIL-10AF/SIL-10AP/SIL-10Ai/SIL-10AxL/Rack MTP2 192 Pos., SIL-10HTA/SIL-10HTC 350 pos. Tray								•	
	SIL-10HTA/SIL-10HTC 140 Pos. Tray		•	•	•	•			•	
	SIL-10HTA/SIL-10HTC 100 Pos. Tray						•		•	
	SIL-10ADvp		•	•	•	•	•		•	
	HTA 200 H								•	
	SIL-20A (Prominence) 105 vial tray/SIL-20AC (Prominence) 70 vial tray	•	•	•	•	•				
	SIL-20A/Sil-20AC (Prominence) 175 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								•		
Spark	Marathon Basic, Standard 96 Pos. Tray, Midas, Large Capacity 96 Pos. Tray, Promis, SPH 125		•	•	•					
	Marathon Basic Prep King Size 48 Pos. Tray, Midas, Large Volume 24 Pos. Tray							•		
	Midas, Standard 84 Pos. Tray, Alias		•	•	•			•		
	Triathlon, Standard 96 Tray		•	•	•				•	
	Triathlon, LSV 72 Pos. Tray						•			
	Triathlon, Super-LSV 32 Pos. Tray							•		
	Triathlon, Micro 160 Pos. Tray	•								
	Endurance 48 Pos. Tray, Reliance 48 Pos. Tray		•	•	•					
	Integrity		•	•	•					•
	Prospekt 2		•	•						
	Reliance/Symbiosis Pharma		•	•						•
Symbiosis Pico									•	
Spectra-Physics	8875, 8880		•	•	•					
	SpectraSYSTEM AS1000, AS3000, AS3500	•	•	•	•				•	
Sykam	S 5200		•		•					
Talbot	ASI		•		•					
Teledyne Tekmar	7000/7000HT/7050							•		
	HT3A							•		

- indicates that a cap having an outer flange is required for the vial to operate properly with the autosampler.
- 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.

Autosampler Compatibility Table (con't)

Manufacturer	Model	8 mm Crimp	11 mm Crimp and Snap	8 mm Screw	9 mm Screw	10 mm Screw	13 mm Screw	18 mm Screw (Headspace)	Shell Vials (Neckless)	Plate (page 49)
Thermo Scientific	AS1000 (Trace GC), AS200, AS2000 90 vial tray (Trace GC)	•	•	•	•					
	AS300	•	•	•	•				•	
	AS2000 30 vial tray							•		
	AI3000 (II)/AS3000 (II) AS3500 (Trace GC + Focus GC)	•	•		•			•		
	A200LC, AS 100	•	•	•	•				•	
	SpectraSYSTEM AS 1000, AS 3000, AS 3500	•	•	•	•				•	
	A200S	•	•	•	•					
	AS800, 42 vial tray		•	•	•					
	AS800, 60 vial tray	•	•	•	•					
	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)	•	•	•	•					•	
Tosoh	AS 8010		•		•					
	TSK-6080		•		•		•			
Tracor	770/771/772		•	•	•					
Unicam	4247, 4710		•	•	•					
	4700 (GC)	•								
	4700 (LC)	•		•	•					
	LC-XP		•	•	•		•			
	S4/S8	•								
Varian	ProStar 400, Standard 96 Pos. Tray, ProStar 410, Large Capacity 96 Pos. Tray		•	•	•	•				
	ProStar 400, King Size 48 Pos. Tray, ProStar 410, Large Volume 24 Pos. Tray							•		
	ProStar 410, Standard 84 Pos. Tray		•	•	•	•		•		
	ProStar 420, Standard 96 Pos. Tray		•	•	•	•			•	
	ProStar 420, LSV 72 Pos. Tray	•					•			
	ProStar 420, Super-LSV 32 Pos. Tray							•		
	ProStar 420, Micro 160 Pos. Tray	•								
	ProStar 430, 48 Pos. Tray		•	•	•					
	8035			•	•					
	8000, 8100		•	•	•					
	8200		•	•	•	•				
	8400 (100 Pos.), 8410-Autoinjector (10 x 2ml; 6 x 5ml; 5 x 10ml)		•	•	•			•		
	CP-910, 911, 912		•	•	•					
	CP-940, 941		•							
	LC 9100/LC 9095/LC 9090		•		•					
	COMBI PAL (200 Pos. Tray) GC PAL (200 pos. Tray)	•							•	
	COMBI PAL (98 Pos. Tray) GC PAL (98 Pos. Tray)	•	•		•				•	
	COMBI PAL SPME mode (98 Pos. Tray)		•		•				•	
	COMBI PAL (32 Pos. Tray) GC PAL (32 Pos. Tray), COMBI PAL SPME mode (32 Pos. Tray)								•	
	Genesis								•	
	Marathon Basic, Standard 96 Pos. Tray		•	•	•					
	Marathon Basic, Prep, King Size 48 Pos. Tray								•	
	Vista			•	•					
	CP-9020/CP-9025, CP-9060								•	
	CP-9010		•	•	•					
	CP-8410/8034/8035/8100/8200/9095/9100		•	•						
	920-LC/940-LC		•	•						

Autosampler Compatibility Table (con't)

Manufacturer	Model	8 mm Crimp	11 mm Crimp and Snap	8 mm Screw	9 mm Screw	10 mm Screw	13 mm Screw	18 mm Screw (Headspace)	Shell Vials (Neckless)	Plate (page 49)
Viscotek	GPC Autosampler			•	•	•				
VWR(Merck)/Hitachi	L2200 (LaChrom Elite)/L2200-U (LaChrom Ultra) (200 Pos. Tray), L7200 (LaChrom) (80 Pos. Tray)/L7250(LaChrom) (Pos. Tray)		•	•	•					
	L2200 (LaChrom Elite) (128 Pos. Tray)						•			
	L7250 (LaChrom) (Rack Holder for combination Racks)	•	•	•	•		•			
	655-A40 (108 Pos. Tray), L-9100, AS 2000 (50 Pos. Tray), AS 4000 (150 Pos. Tray)		•	•	•					
	AS 4000 (198 Pos. Tray)	•								
	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 a cap having an outer flange is required for the vial to operate properly with the autosampler.
- 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.