

**SUNVIALS™ FOR THE WATERS 96 & 48-POSITION CAROUSELS**

SunVials are specially designed shell vials for the Waters 48 and 96-position carousels. They provide an economical alternative to standard screw thread vials. The membrane cap tears away when pierced allowing easy penetration with the autosampler needle. Vials are manufactured of Clear or Amber Sun51 Type I, Class B borosilicate glass or of high quality, chemically resistant polypropylene. Glass vials are packaged in a clean resealable ClearPack. SunVials and closures are manufactured to exacting specifications to ensure compatibility and proper sealing. Use of SunVials and Sun specified closures are recommended for optimal results.



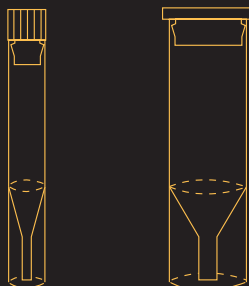
**SunVials for the Waters 96-Position Carousel**

Nominal Volume	Description	Qty.	Cat No.	Price
1mL	Clear Glass Vial w/ Polyethylene Cap	250/pk	500 602	18.70
		2000/cs	500 634	143.35
1mL	Amber Glass Vial w/ Polyethylene Cap	250/pk	500 604	21.55
		2000/cs	500 636	165.50
0.70mL	ConSert™ Polypropylene Vial w/ Polyethylene Cap	250/pk	500 765	26.60

**Inserts for 8x40mm SunVials**

Nominal Volume	Description	Qty.	Cat No.	Price
0.20mL	Conical Bottom, Polyethylene	1000/cs	200 650	54.30
0.20mL	Mandrel-point, Sun33 Glass	100/pk	500 188	47.90
0.20mL	Sper™, Mandrel-point w/Spring*	100/pk	500 274	62.80
0.20mL	Mandrel-point w/ Polypropylene Bottom Spring, Sun33 Glass	100/pk	500 900	77.15
0.20mL	Conical Bottom, Sun51 Glass	100/pk	500 304	33.00
	Metal Spring for Inserts	100/pk	200 658	7.35

\*Metal spring and insert are preassembled.



**CONSERT™ VIAL**

- Available for 48 & 96 Position Carousels
- Feature a precision formed conical bottom for minimal residual volume
- Manufactured of chemically resistant polypropylene
- Nominal volumes of 0.70mL and 3mL allow micro-sampling without the use of limited volume inserts



**SunVials for the Waters 48-Position Carousel**

Nominal Volume	Description	Qty.	Cat No.	Price
4mL	Clear Glass Vial w/ Polyethylene Cap	100/pk	200 498	14.40
4mL	Amber Glass Vial w/ Polyethylene Cap	100/pk	200 510	15.45
4mL	Polypropylene Vial w/ Polyethylene Cap	100/pk	500 160	11.20
3mL	ConSert Polypropylene Vial w/ Polyethylene Cap	100/pk	500 766	12.80



Autosampler vials are manufactured of Clear, Sun33 Type I, Class A borosilicate glass or Amber, Sun51 Type I, Class B borosilicate glass unless otherwise specified. The glass vials are packaged in a resealable ClearPack.



### 15x45mm Screw-Top Vials

Nominal Volume	Description	Qty.	Cat No.	Price
4mL	Clear Glass	100/pk	200 492	13.30
4mL	Amber Glass	100/pk	200 494	15.45
4mL	Clear Glass w/ Graduated WriteOn Patch	100/pk	503 268	17.50
4mL	Amber Glass w/ Graduated WriteOn Patch	100/pk	503 564	19.00
4mL	Clear Glass, Silanized	100/pk	500 560	42.70



### Inserts for 15x45mm Vials

Nominal Volume	Description	Qty.	Cat No.	Price
0.25mL	Conical Bottom, Polyethylene	1000/cs	200 742	47.20
0.25mL	Conical Bottom, Polypropylene	1000/cs	200 744	47.90
0.25mL	Conical Bottom, Sun51 Glass	100/pk	200 774	20.25
0.25mL	Spert, Conical Glass w/ Spring	100/pk	200 784	29.70
0.25mL	Mandrel-point, Sun33 Glass	100/pk	200 758	63.85
0.25mL	Spert, Mandrel-point w/ Insert	100/pk	200 762	69.85
0.75mL	Flat-bottom, Sun51 Glass	1000/cs	200 756	92.50
	Metal Spring for Inserts	100/pk	200 778	7.35



**13-425 Caps and Septa Assembled**

Cap	Septum	Qty.	Cat No.	Price
Black Polypropylene	Red Teflon/Silicone, 0.075"	100/pk	200 596	20.75
Black Polypropylene	Red Teflon/Silicone, 0.065"	100/pk	200 606	14.90
Black Polypropylene	White Teflon/White Silicone, 0.040"	100/pk	500 090	15.90
Black Polypropylene	Pre-Slit Teflon/Silicone, 0.040"	1000/cs	500 866	206.45

**Screw Caps for 15x45mm Vials – 13-425 GPI Thread**

Description	Qty.	Cat No.	Price
Black, Polypropylene, Open-top	100/pk	500 576	3.45
	1000/cs	500 572	33.00
White Polypropylene, Open-top	100/pk	500 582	3.45
	1000/cs	500 578	33.00
Black Phenolic, Open-top	1000/cs	500 670	47.90
Natural Polyethylene w/ Membrane Septum	100/pk	500 570	5.30
	1000/cs	500 566	45.90
Black Phenolic, Solid-top w/ Teflon/White Rubber Liner	200/pk	200 568	32.15
	1000/cs	200 564	139.65

**12mm Septa for 15x45mm Vials**

Description	Thickness	Qty.	Cat No.	Price
Red Teflon/Silicone	0.075"	100/pk	200 594	14.70
		1000/cs	200 590	127.70
White Teflon/Silicone	0.075"	1000/cs	500 430	117.05
Red Teflon/Silicone	0.065"	1000/cs	200 600	95.75
White Teflon/White Silicone	0.040"	100/pk	200 622	12.00
		1000/cs	200 618	104.30
Pre-Slit Red Teflon/Silicone	0.040"	1000/cs	500 864	223.45
Teflon	0.010"	1000/cs	200 608	21.30

**GRADUATED WRITEON PATCH VIALS**

Graduated WriteOn patch vials are an easy, economical way to identify samples or standards. The graduations are convenient when filling vials and are accurate to within  $\pm 5\%$  for 12x32mm vials and  $\pm 6\%$  for 15x45 vials. The WriteOn patch meets CONEG Regulations for heavy metal-free paint.



Unassembled kits are provided with caps and septa pre-assembled for added convenience and to save time. The caps with septa are provided in an adjacent well to the vials for easy assembly during sample preparation.



#### Unassembled

Vial	Cap	Septum	Qty.	Cat No.	Price
4mL, Clear	Black Polypropylene	Red Teflon/Silicone, 0.075"	100/pk	200 642	33.00
4mL, Clear	Black Polypropylene	Red Teflon/Silicone, 0.060"	100/pk	200 644	28.75
4mL, Amber	Black Polypropylene	Red Teflon/Silicone, 0.060"	100/pk	200 646	30.90
4mL, Clear*	Black Polypropylene	Teflon, 0.010"	100/pk	200 648	19.70
4mL, Clear	Natural Polyethylene	Membrane	100/pk	200 652	19.50

\*200 648 – Cap and septa are not assembled in this kit.

Assembled kits are provided with vials, caps and septa pre-assembled for special applications where samples may be injected through the septum or to reduce possible contaminants during sample preparation.



#### Assembled

Vial	Cap	Septum	Qty.	Cat No.	Price
4mL, Clear	Black Polypropylene	Red Teflon/Silicone, 0.075"	100/pk	200 630	31.95
4mL, Amber	Black Polypropylene	Red Teflon/Silicone, 0.075"	100/pk	200 632	35.20
4mL, Clear	Black Polypropylene	Red Teflon/Silicone, 0.060"	100/pk	200 634	28.75
4mL, Amber	Black Polypropylene	Red Teflon/Silicone, 0.060"	100/pk	200 635	31.95
4mL, Clear	Black Polypropylene	Teflon, 0.010"	100/pk	200 636	21.30
4mL, Amber	Black Polypropylene	Teflon, 0.010"	100/pk	200 638	23.45
4mL, Clear	Black Polypropylene	White Teflon/White Silicone, 0.040"	100/pk	200 640	29.80
4mL, Clear, Silanized	Black Phenolic	Teflon/Silicone Liner	100/pk	500 768	90.45
4mL, Clear	Black Phenolic, Solid-top	Teflon/White Rubber Liner	1000/cs	500 318	292.60
4mL, Amber	Black Phenolic, Solid-top	Teflon/White Rubber Liner	100/pk	500 882	31.95