

cronus[®]

autosampler vials & accessories

issue 4

Cronus®



Cronus® Vials are manufactured to conform to a strict range of criteria and set new standards for quality and reproducibility

With Cronus® Vials you will achieve consistent and reliable results, time after time...

Save Money Save the Environment

Take Advantage with Cronus® Advantage Packs

Cronus® Advantage Packs consist of a box of 5,000 vials and pre-assembled caps and septa – this saves on unnecessary packaging and saves you money!

- Crimp Cap Vial Advantage Packs [page 4](#)
- Snap/Crimp Cap Vial Advantage Packs [page 7](#)
- 9mm Screw Cap Vial Advantage Packs [page 10](#)



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CRIMP CAP VIALS



Why Choose Crimp Cap Vials?

Crimp caps provide the tightest seal, reducing the chance of sample evaporation. The 12x32mm crimp vials and 11mm aluminium crimp caps are economical and easy to use with Cronus® vial crimping tools.

Crimp Cap Vials, 12x32mm

Part No.	Description	Quantity
VZS-02CC-100	Cronus® Crimp Vial, 1.8ml, Clear Glass	100 Pack
VZS-02CA-100	Cronus® Crimp Vial, 1.8ml, Amber Glass	100 Pack
VZM-15CCC-100	Champagne Vial, 1.5ml, Clear Glass	100 Pack
VZM-15CAC-100	Champagne Vial, 1.5ml, Amber Glass	100 Pack
VZM-15CBC-95	Champagne Vial, 1.5ml, Black Glass (opaque)	95 Pack
VZM-03CCF-100	X-Vial, 350µl Fused Insert, Clear Glass	100 Pack
VZM-03CAF-100	X-Vial, 350µl Fused Insert, Amber Glass	100 Pack
VZP-02CCF-100	X-Vial Precision, 250µl Precision Fused Insert, Clear Glass	100 Pack
VZP-02CAF-100	X-Vial Precision, 250µl Precision Fused Insert, Amber Glass	100 Pack



VZS-02CC-100



VZS-02CA-100



VZM-15CCC-100



VZM-15CAC-100



VZM-15CBC-95



VZM-03CCF-100



VZM-03CAF-100



VZP-02CCF-100



VZP-02CAF-100

11mm Assembled Crimp Caps and Septa

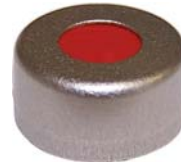
Part No.	Description	Quantity
VCA-1103CS-100	Silver with PTFE/Red Rubber Septa	100 Pack
VCA-1104CS-100	Silver with PTFE/Silicone Septa	100 Pack
VCA-1104MS-100	Silver magnetic seal with PTFE/Silicone Septa	100 Pack
VCA-1105CS-100	Silver with PTFE/Sil/PTFE Septa	100 Pack
VCA-1106CS-100	Silver with Pre-slit PTFE/Sil Septa	100 Pack



VCA-1103CS-100



VCA-1104CS-100/
VCA-1104MS-100



VCA-1105CS-100



VCA-1106CS-100



Cronus® 11mm **magnetic crimp caps** are suitable for autosamplers that use magnetic transportation.

See page 16 for magnetic 20mm headspace crimp caps.

Crimp Cap Combo and Advantage Packs

The Combo Packs and Advantage Packs contain standard 12x32mm snap/crimp cap vials, plus pre-assembled crimp caps and septa.

Part No.	Description	Quantity
VKS-0203-CCS-100	Clear Glass, 1.8ml + Crimp Cap, PTFE/Red Rubber Septum	100 Pack
VKS-0203-CAS-100	Amber Glass, 1.8ml + Crimp Cap, PTFE/Red Rubber Septum	100 Pack
VKB-0203-CCS-5000	Clear Glass, 1.8ml + Crimp Cap, PTFE/Red Rubber Septum	5000 Pack
VKB-0203-CAS-5000	Amber Glass 1.8ml + Crimp Cap, PTFE/Red Rubber Septum	5000 Pack



VKS-0203-CCS-100



VKB-0203-CCS-5000

Inserts for Crimp Cap Vials

Part No.	Description	Profile	Volume	Dead Volume	Quantity
VIN-0103C-100	Glass vial insert	Flat	350µl	3µl	100 Pack
VIN-0202C-100	Glass vial insert	Conical	200µl	3µl	100 Pack
VIS-0302C-100	Glass vial insert with polypropylene bottom support spring	Mandrel	250µl	2µl	100 Pack



11mm CRIMPING ACCESSORIES



5A11CO



5A11DO



VTC-11



VTD-11

Electronic Vial Crimpers and Decappers

These rechargeable, cordless electronic crimpers and decappers are designed to crimp or decap hundreds of vials per charge. They can be set electronically to the precise level required for reliable, reproducible crimping and fit comfortably into your hand. Each crimper or decapper comes complete with long-life battery and charger. Ergonomically designed to reduce strain and arm injury associated with many manual crimping tools.

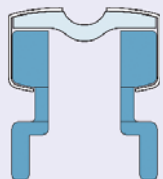
Part No.	Description
5A11CO	11mm Electronic Vial Crimper (with battery and charger)
5A11DO	11mm Electronic Vial Decapper (with battery and charger)

(6.4V Volt, Universal Charger)

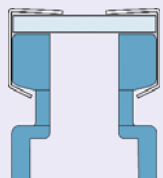
Crimpers & Decrimpers

- Painted, plated and coated for maximum corrosion resistance
- Adjustable stop for optimal sealing performance
- Textured handles for excellent grip
- Controlled, low-effort method for removing caps, reducing both sample spillage and breakages

Part No.	Description
VTC-11	11mm Vial Crimper
VTD-11	11mm Vial Decrimper



Over-crimped



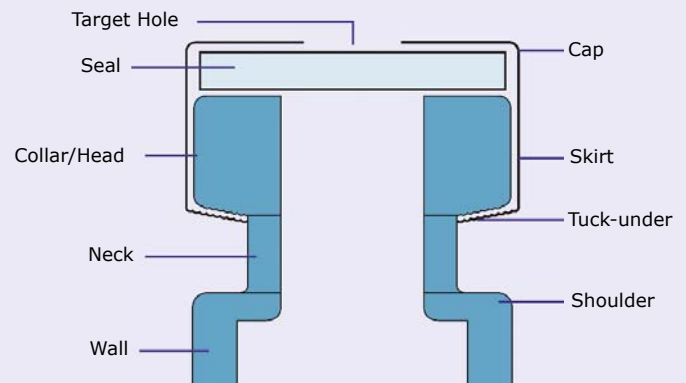
Under-crimped

Correct Vial Crimping

Achieve accurate results with correctly crimped vials.

A correctly crimped vial is neither over-crimped nor under-crimped. Over-crimping may cause coring or poor septum resealing, while under-crimping can cause evaporation problems.

With proper adjustment of the vial crimpers, perfect crimping can be achieved every time. When the vial is crimped perfectly, the cap should not be able to rotate and the septum should appear smooth and level.



Correctly Crimped Vial

SNAP/CRIMP CAP VIALS



Why Choose Snap/Crimp Cap Vials?

11mm snap caps provide a secure seal that minimises evaporation, even with volatile samples. Snap caps are often more convenient than crimp caps as they can easily be applied and removed by hand. An audible click ensures a secure seal has been formed and that the cap is correctly aligned.

Snap/crimp vials can be closed with either snap caps or crimp caps. Please see pages 4 and 5 for crimp caps and crimping accessories.

Snap/Crimp Cap Vials, 12x32mm

Part No.	Description	Quantity
VZS-02SC-100	Cronus® Snap/Crimp Vial, 1.8ml, Clear Glass	100 Pack
VZS-02SA-100	Cronus® Snap/Crimp Vial, 1.8ml, Amber Glass	100 Pack
VZM-15SCC-100	Champagne Vial, 1.5ml, Clear Glass	100 Pack
VZM-15SAC-100	Champagne Vial, 1.5ml, Amber Glass	100 Pack
VZM-15SBC-95	Champagne Vial, 1.5ml, Black Glass (opaque)	95 Pack
VZM-03SCF-100	X-Vial, 350µl Fused Insert, Clear Glass	100 Pack
VZM-03SAF-100	X-Vial, 350µl Fused Insert, Amber Glass	100 Pack
VZP-02SCF-100	X-Vial Precision, 250µl Precision Fused Insert, Clear Glass	100 Pack
VZP-02SAF-100	X-Vial Precision, 250µl Precision Fused Insert, Amber Glass	100 Pack
VZM-01SPV-100	Microsampling Vial, 250µl, Conical Bottom, Polypropylene	100 Pack
VZM-05SPV-100	Microsampling Vial, 500µl, Conical Bottom, Polypropylene	100 Pack
VZM-15SPX-100	MaxVial, 750µl, Polypropylene	100 Pack
VZM-07STX-100	MaxVial, 750µl, TPX (clear plastic)	100 Pack



VZS-02SC-100



VZS-02SA-100



VZM-15SCC-100



VZM-15SAC-100



VZM-15SBC-95



VZM-03SCF-100



VZM-03SAF-100



VZP-02SCF-100



VZP-02SAF-100



VZM-01SPV-100



VZM-05SPV-100



VZM-15SPX-100



VZM-07STX-100

11mm Assembled Snap Caps and Septa

For quick and easy use, the caps and septa are pre-assembled. This saves you time and reduces contamination during assembly.

Part No.	Description	Quantity
VCA-1102SN-1000	Natural Polypropylene with Moulded Septum	1000 Case
VCA-1103SR-100	Red with PTFE/Red Rubber Septum	100 Pack
VCA-1104SB-100	Black with PTFE/Silicone Septum	100 Pack
VCA-1104SR-100	Red with PTFE/Silicone Septum	100 Pack
VCA-1105SB-100	Black with PTFE/Silicone/PTFE Septum	100 Pack
VCA-1105SR-100	Red with PTFE/Silicone/PTFE Septum	100 Pack
VCA-1106SR-100	Red with Pre-slit PTFE/Silicone Septum	100 Pack
VCA-1108SR-100	Red with PTFE Septum	100 Pack



Snap Cap Combo Packs

These Combo Packs contain standard 12x32mm snap cap vials, plus pre-assembled snap caps and septa.

Part No.	Description	Quantity
VKS-0203-SCR-100	Clear Glass 1.8ml + Red Snap Cap, PTFE/Red Rubber Septum	100 Pack
VKS-0204-SCB-100	Clear Glass 1.8ml + Black Snap Cap, PTFE/Silicone Rubber Septum	100 Pack
VKS-0204-SCR-100	Clear Glass 1.8ml + Red Snap Cap, PTFE/Silicone Septum	100 Pack
VKS-0204-SAR-100	Amber Glass 1.8ml + Red Snap Cap, PTFE/Silicone Septum	100 Pack
VKS-0205-SCB-100	Clear Glass 1.8ml + Black Snap Cap, PTFE/Silicone/PTFE Septum	100 Pack
VKS-0205-SCR-100	Clear Glass 1.8ml + Red Snap Cap, PTFE/Silicone/PTFE Septum	100 Pack
VKS-0206-SCR-100	Clear Glass 1.8ml + Red Snap Cap, Pre-slit PTFE/Silicone Septum	100 Pack
VKS-0208-SCR-100	Clear Glass 1.8ml + Red Snap Cap, PTFE Septum	100 Pack



VKS-0204-SCR-100

Snap Cap Advantage Packs

Advantage Packs contain standard 12x32mm snap cap vials, plus pre-assembled snap caps and septa. Buy in bulk to save money and save the environment!

Part No.	Description	Quantity
VKB-0203-SCR-5000	Clear Glass 1.8ml + Red Snap Cap, PTFE/Red Rubber Septum	5000 Pack
VKB-0204-SCB-5000	Clear Glass 1.8ml + Black Snap Cap, PTFE/Silicone Rubber Septum	5000 Pack
VKB-0204-SCR-5000	Clear Glass 1.8ml + Red Snap Cap, PTFE/Silicone Septum	5000 Pack
VKB-0204-SAR-5000	Amber Glass 1.8ml + Red Snap Cap, PTFE/Silicone Septum	5000 Pack
VKB-0205-SCB-5000	Clear Glass 1.8ml + Black Snap Cap, PTFE/Silicone/PTFE Septum	5000 Pack
VKB-0205-SCR-5000	Clear Glass 1.8ml + Red Snap Cap, PTFE/Silicone/PTFE Septum	5000 Pack
VKB-0206-SCR-5000	Clear Glass 1.8ml + Red Snap Cap, Pre-slit PTFE/Silicone Septum	5000 Pack
VKB-0208-SCR-5000	Clear Glass 1.8ml + Red Snap Cap, PTFE Septum	5000 Pack



VKB-0204-SCR-5000

Inserts for Snap/Crimp Cap Vials

Part No.	Description	Profile	Volume	Dead Volume	Quantity
VIN-0103C-100	Glass vial insert	Flat	350µl	3µl	100 Pack
VIN-0202C-100	Glass vial insert	Conical	200µl	3µl	100 Pack
VIS-0302C-100	Glass vial insert with polypropylene bottom support spring	Mandrel	250µl	2µl	100 Pack



VIN-0103C-100

VIN-0202C-100

VIS-0302C-100

8mm SCREW CAP VIALS



Why Choose 8mm Screw Cap Vials?

8mm (8-425) screw thread vials are the original smaller opening autosampler vials. They are designed to work in a variety of autosamplers requiring narrow neck vials.

8mm Screw Cap Vials, 12x32mm

Part No.	Description	Quantity
VZS-0208C-100	Cronus® Screw Vial, 1.8ml, Clear Glass	100 Pack
VZS-0208A-100	Cronus® Screw Vial, 1.8ml, Amber Glass	100 Pack
VZM-1508CC-100	Champagne Vial, 1.5ml, Clear Glass	100 Pack
VZM-1508AC-100	Champagne Vial, 1.5ml, Amber Glass	100 Pack
VZM-0108PV-100	Microsampling Vial, 250µl, Conical Bottom, Polypropylene	100 Pack
VZM-0508PV-100	Microsampling Vial, 500µl, Conical Bottom, Polypropylene	100 Pack



VZS-0208C-100



VZS-0208A-100



VZM-1508CC-100



VZM-1508AC-100



VZM-0108PV-100



VZM-0508PV-100

8mm Assembled Caps and Septa

Pre-assembled caps and septa reduce the chance of contamination of the septum during sample preparation. These caps are manufactured from high quality polypropylene and fit all of the 8mm screw cap vials.

Part No.	Description	Quantity
VCA-0804TB-100	Black with PTFE/Silicone Septum	100 Pack
VCA-0804TY-100	Yellow with PTFE/Silicone Septa	100 Pack
VCA-0806TB-100	Black with Pre-slit PTFE/Silicone Septum	100 Pack



VCA-0804TB-100



VCA-0804TY-100



VCA-0806TB-100

Caps for 8-425 Screw Thread Vials

The open-top cap is for use with 8mm septa.

Part No.	Description	Quantity
VCC-0801TB-1000	Black Open-top	1000 Case
VCC-0801TY-1000	Yellow Open-top, Flared	1000 Case
VCA-0802TN-1000	Natural Polypropylene with Moulded Septum	1000 Case
VCA-0832TB-100	Black phenolic, Solid Top with PTFE/Poly Liner	100 Pack



VCC-0801TB-1000



VCA-0801TY-1000



VCA-0802TN-1000

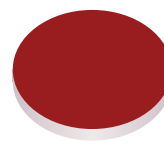


VCA-0832TB-100

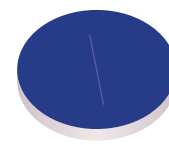
Septa for 8-425 Screw Thread Caps

Use these with unassembled 8mm screw caps to create the perfect closure for your application.

Part No.	Description	Quantity
VCS-0804-1000	PTFE/Silicone	1000 Case
VCS-0806-1000	Pre-slit PTFE/Silicone	1000 Case
VCS-0808-1000	PTFE	1000 Case



VCS-0804-1000



VCS-0806-1000



VCS-0808-1000

8mm Screw Cap Combo Packs

These Combo Packs contain 12x32 8mm screw cap vials plus caps and septa. The pre-assembled polypropylene caps and septa save you time and reduce contamination during assembly.

Part No.	Description	Quantity
VKS-0204-08CB-100	Clear Glass 1.8ml + Black Screw Cap, PTFE/Silicone Septum	100 Pack
VKS-0204-08CY-100	Clear Glass 1.8ml + Yellow Screw Cap, PTFE/Silicone Septum	100 Pack



VKS-0204-08CB-100

Inserts for 8-425 Screw Thread Vials

Part No.	Description	Profile	Volume	Dead Volume	Quantity
VIN-0102C-1000	Glass vial insert	Flat	200µl	3µl	1000 Case
VIN-0201C-100	Glass vial insert	Conical	100µl	1µl	100 Pack
VIS-0201P-100	Polypropylene vial insert with polypropylene bottom support spring	Conical	100µl	1µl	100 Pack
VIS-0301C-100	Glass vial insert with polypropylene bottom support spring	Mandrel	100µl	1µl	100 Pack



VIN-0102C-1000



VIN-0201C-100



VIS-0201P-100



VIS-0301C-100

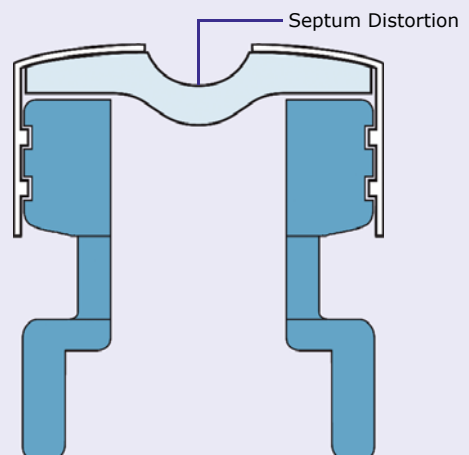
Sealing Screw Caps

It is important not to over-tighten screw caps.

When using any type of screw cap vial, care should be taken to ensure the cap is screwed on securely without being unnecessarily over-tightened.

Over-tightening can cause various problems:

- The septum may distort as it is placed under pressure and twisted (see diagram)
- Septum resealing can be adversely affected
- Coring may occur upon injection
- The cap may unscrew itself – this can result in sample evaporation



Over-Tightened Screw Cap

9mm SCREW CAP VIALS



Why Choose 9mm Screw Cap Vials?

9mm screw thread vials have a 9-425 GPI thread and the closure is dimensionally equivalent to 11mm crimp cap vials. This means that they can be used in any autosampler that uses 11mm crimp cap vials (see page 4 for crimp cap vials).

9mm screw caps have an advantage over 11mm crimp caps because 9mm screw caps can easily be applied and removed by hand and they can be reused.

9mm Screw Cap Vials, 12x32mm

Part No.	Description	Quantity
VZS-0209C-100	Cronus® Screw Vial, 1.8ml, Clear Glass	100 Pack
VZS-0209A-100	Cronus® Screw Vial, 1.8ml, Amber Glass	100 Pack
VZM-1509CC-100	Champagne Vial, 1.5ml, Clear Glass	100 Pack
VZM-1509AC-100	Champagne Vial, 1.5ml, Amber Glass	100 Pack
VZM-1509BC-95	Champagne Vial, 1.5ml, Black Glass (opaque)	95 Pack
VZM-0309CF-100	X-Vial, 350µl Fused Insert, Clear Glass	100 Pack
VZM-0309AF-100	X-Vial, 350µl Fused Insert, Amber Glass	100 Pack
VZM-0309PT-100	Microsampling Vial, 300µl, Tapered Tip, Polypropylene	100 Pack



9mm Screw Cap Combo Packs

These Combo Packs contain standard 12x32mm 9mm screw cap vials plus caps and septa. The pre-assembled polypropylene caps and septa save you time and reduce contamination during assembly.

Part No.	Description	Quantity
VKS-0203-09CB-100	Clear Glass 1.8ml + Black Screw Cap, PTFE/Red Rubber Septum	100 Pack
VKS-0204-09CB-100	Clear Glass 1.8ml + Black Screw Cap, PTFE/Silicone Septum	100 Pack
VKS-0204-09AB-100	Amber Glass 1.8ml + Black Screw Cap, PTFE/Silicone Septum	100 Pack
VKS-0205-09CB-100	Clear Glass 1.8ml + Black Screw Cap, PTFE/Sil/PTFE Septum	100 Pack
VKS-0206-09CL-100	Clear Glass 1.8ml + Blue Screw Cap, Pre-Slit PTFE/Silicone Septum	100 Pack



VKS-0204-09AB-100



VKS-0205-09CB-100

9mm Screw Cap Advantage Packs

Advantage Packs contains standard 12x32mm 9mm screw cap vials, plus pre-assembled 9-425 thread caps and septa. Buy in bulk to save money and save the environment!

Part No.	Description	Quantity
VKB-0203-09CB-5000	Clear Glass 1.8ml + Black Screw Cap, PTFE/Red Rubber Septum	5000 Pack
VKB-0204-09CB-5000	Clear Glass 1.8ml + Black Screw Cap, PTFE/Silicone Septum	5000 Pack
VKB-0204-09AB-5000	Amber Glass 1.8ml + Black Screw Cap, PTFE/Silicone Septum	5000 Pack
VKB-0204-09CLK-5000	Clear Glass 1.8ml + Blue KNURLED Screw Cap, PTFE/Silicone Septum	5000 Pack
VKB-0205-09CB-5000	Clear Glass 1.8ml + Black Screw Cap, PTFE/Sil/PTFE Septum	5000 Pack
VKB-0206-09CL-5000	Clear Glass 1.8ml + Blue Screw Cap, Pre-Slit PTFE/Silicone Septum	5000 Pack



9mm Assembled Caps and Septa

9-425 thread closures have the profile of a crimp or snap cap so are compatible with robotic autosamplers. These caps are manufactured from high quality polypropylene and fit all 9mm screw cap vials.

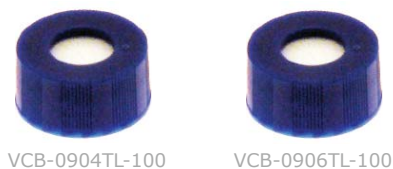
Part No.	Description	Quantity
VCA-0903TB-100	Black with Red Rubber/PTFE Septum	100 Pack
VCA-0903TG-100	Green with Red Rubber/PTFE Septum	100 Pack
VCA-0903TL-100	Blue with Red Rubber/PTFE Septum	100 Pack
VCA-0903TR-100	Red with Red Rubber/PTFE Septum	100 Pack
VCA-0903TY-100	Yellow with Red Rubber/PTFE Septum	100 Pack
VCA-0904TB-100	Black with PTFE/Silicone Septum	100 Pack
VCA-0904TG-100	Green with PTFE/Silicone Septum	100 Pack
VCA-0904TL-100	Blue with PTFE/Silicone Septum	100 Pack
VCA-0904TLK-100	Blue with PTFE/Silicone Septum, Knurled	100 Pack
VCA-0904TR-100	Red with PTFE/Silicone Septum	100 Pack
VCA-0904TY-100	Yellow with PTFE/Silicone Septum	100 Pack
VCA-0905TB-100	Black with PTFE/Silicone/PTFE Septum	100 Pack
VCA-0905TL-100	Blue with PTFE/Silicone/PTFE Septum	100 Pack
VCA-0906TB-100	Black with Pre-slit PTFE/Silicone Septum	100 Pack
VCA-0906TL-100	Blue with Pre-slit PTFE/Silicone Septum	100 Pack
VCA-0931TL-100	Blue, Solid Top with PTFE Liner	100 Pack



9mm Bonded Caps and Septa

Bonded caps are manufactured using a proprietary technique which effectively bonds the septa into the cap with no discernible increase in extractable outputs. Bonded Septa prevent blunt needles pushing septa into the vial and are recommended by some autosampler manufacturers.

Part No.	Description	Quantity
VCB-0904TL-100	Blue with Bonded PTFE/Silicone Septum	100 Pack
VCB-0906TL-100	Blue with Bonded Pre-slit PTFE/Silicone Septum	100 Pack



Inserts for 9-425 Screw Thread Vials

Part No.	Description	Profile	Volume	Dead Volume	Quantity
VIN-0102C-1000	Glass vial insert	Flat	200µl	3µl	1000 Case
VIN-0202C-100	Glass vial insert	Conical	200µl	3µl	100 Pack
VIS-0201P-100	Polypropylene vial insert with polypropylene bottom support spring	Conical	100µl	1µl	100 Pack
VIS-0302C-100	Glass vial insert with polypropylene bottom support spring	Mandrel	250µl	2µl	100 Pack



Don't over-tighten your screw caps! – Read how to seal screw caps correctly on page 9

10mm SCREW CAP VIALS



Why Choose 10mm Screw Cap Vials?

10mm (10-425) screw cap vials feature a wider opening than other screw top vials. This increased target area makes sample preparation easier. It also reduces the chances of bent or broken needles during sampling.

10mm Screw Cap Vials, 12x32mm

Part No.	Description	Quantity
VZS-0210C-100	Cronus® 10mm Screw Vial, 1.8ml, Clear Glass	100 Pack
VZS-0210A-100	Cronus® 10mm Screw Vial, 1.8ml, Amber Glass	100 Pack
VZM-1510CC-100	Champagne Vial, 1.5ml, Clear Glass	100 Pack
VZM-1510AC-100	Champagne Vial, 1.5ml, Amber Glass	100 Pack
VZM-0310CF-100	X-Vial, 350µl Fused Insert, Clear Glass	100 Pack
VZM-0310AF-100	X-Vial, 350µl Fused Insert, Amber Glass	100 Pack
VZM-0210PT-100	Microsampling Vial, 250µl, Tapered Tip, Polypropylene	100 Pack



VZS-0210C-100



VZS-0210A-100



VZM-1510CC-100



VZM-1510AC-100



VZM-0310CF-100



VZM-0310AF-100



VZM-0210PT-100

10mm Assembled Caps and Septa

To save you time and reduce the chance of sample contamination, these caps are pre-assembled. They are manufactured from high quality polypropylene.

Part No.	Description	Quantity
VCA-1004TB-100	Black with PTFE/Silicone Septum	100 Pack
VCA-1006TB-100	Black with Pre-slit PTFE/Silicone Septum	100 Pack



VCA-1004TB-100



VCA-1006TB-100

Caps for 10mm Screw Thread Vials

The natural moulded polypropylene closure is a useful alternative when a resealable cap isn't required. The thin membrane allows for easy needle penetration without the need for a separate septum.

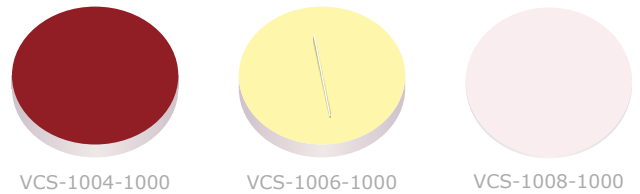
Part No.	Description	Quantity
VCC-1001TB-1000	Black Open-top, Polypropylene	1000 Case
VCA-1002TN-100	Natural Polypropylene with Moulded Septum	100 Pack
VCA-1031TB-100	Black Solid Top with PTFE Liner, for storage	100 Pack
VCA-1031TW-100	White, Solid Top with PTFE Liner	100 Pack



Septa for 10mm Screw Thread Caps

Use these septa with unassembled 10mm screw caps to create the perfect closure for your application.

Part No.	Description	Quantity
VCS-1004-1000	PTFE/Silicone	1000 Case
VCS-1006-1000	Pre-slit PTFE/Silicone	1000 Case
VCS-1008-1000	PTFE	1000 Case



Inserts for 10-425 Screw Thread Vials

Part No.	Description	Profile	Volume	Dead Volume	Quantity
VIN-0103C-100	Glass vial insert	Flat	350µl	3µl	100 Pack
VIN-0202C-100	Glass vial insert	Conical	200µl	3µl	100 Pack
VIS-0302C-100	Glass vial insert with polypropylene bottom support spring	Mandrel	250µl	2µl	100 Pack



Don't over-tighten your screw caps! – Read how to seal screw caps correctly on page 9

15x45mm SCREW CAP VIALS



Why Choose 15x45mm Screw Cap Vials?

15x45mm vials have a 13-425 GPI thread and can hold up to 4ml of sample. They are used by the Waters 48-position autosampler and many others – see the Autosampler & Vial Compatibility Guide on pages 26-29.

13-425 Screw Thread Vials, 15x45mm

Part No.	Description	Quantity
VZS-0415C-100	Cronus® Screw Vial, 4ml, Clear Glass	100 Pack
VZS-0415A-100	Cronus® Screw Vial, 4ml, Amber Glass	100 Pack
VZM-3515CC-100	Champagne Vial, 3.5ml, Clear Glass	100 Pack
VZM-3515AC-100	Champagne Vial, 3.5ml, Amber Glass	100 Pack



VZS-0415C-100



VZS-0415A-100



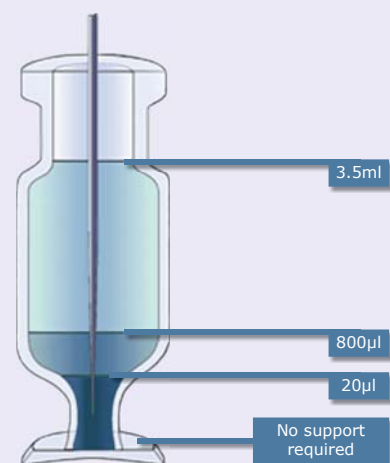
VZM-3515CC-100



VZM-3515AC-100

15x45mm Champagne Vials

Offering a **3.5ml capacity** with a **dead volume of just 20µl**, Cronus® 15x45mm Champagne Vials can be used with both **large and small samples**. They offer an ideal alternative to limited volume inserts!



1.5ml Champagne Vials – See page 20

13-425 Assembled Caps and Septa

The pre-assembled caps and septa are manufactured from high quality polypropylene and fit all 13-425 screw thread vials.

Part No.	Description	Quantity
VCA-1304TB-100	Black with PTFE/Silicone Septum	100 Pack
VCA-1306TB-100	Black with Pre-slit PTFE/Silicone Septum	100 Pack



VCA-1304TB-100



VCA-1306TB-100

Caps for 13-425 Screw Thread Vials

The open-top caps are for use with 13mm septa. The phenolic caps can be autoclaved.

Part No.	Description	Quantity
VCC-1301TB-1000	Black Polypropylene, Open Top	1000 Case
VCA-1302TN-1000	Clear, Moulded	1000 Case
VCA-1331TW-100	White, Solid-top, PTFE Liner	100 Pack
VCA-1332TB-100	Black Phenolic, Solid-top, PTFE/Rubber Liner	100 Pack



VCC-1301TB-1000



VCA-1302TN-1000



VCA-1331TW-100



VCA-1332TB-100

Septa for 13-425 Screw Thread Caps

Use these 13mm septa with unassembled 13-425 screw thread caps to create the perfect closure for your application.

Part No.	Description	Quantity
VCS-1304-1000	PTFE/Silicone	1000 Case
VCS-1308-1000	PTFE	1000 Case



VCS-1304-1000



VCS-1308-1000

VOLATILE ORGANIC ANALYSIS (VOA) VIALS



Why Choose VOA Vials?

VOA vials are specifically designed for use with volatile organic compounds, as recommended by EPA CFR Part 136 and under EPA 40 CFR 141. They are available in both clear and amber borosilicate glass and have a temperature range of -40°C to 125°C.

VOA Screw Cap Vials

Part No.	Description	Quantity
VZG-4024C-100	28x95mm, 40ml, 24-400 thread, Clear Glass	100 Pack
VZG-4024A-100	28x95mm, 40ml, 24-400 thread, Amber Glass	100 Pack



VZG-4024C-100



VZG-4024A-100

Screw Caps for VOA Vials

High quality polypropylene caps with a 24-400 GPI thread for use with VOA (volatile organic analysis) vials. As open top closures, they allow for sampling through a septum.

Part No.	Description	Quantity
VCC-2401TB-100	Black, Open top	100 Pack
VCC-2401TB-1000	Black, Open top	1000 Case
VCC-2401TW-100	White, Open top	100 Pack



VCC-2401TB-100/
VCC-2401TB-1000



VCC-2401TW-100

Septa for VOA Caps

Part No.	Description	Quantity
VCS-2405-100	PTFE/Silicone	100 Pack
VCS-2405-1000	PTFE/Silicone	1000 Case



VCS-2405-100/
VCS-2405-1000

VOA Screw Cap Combo Packs

These Combo Packs contain 28x95mm screw cap VOA vials plus pre-assembled caps and septa to save you time and reduce contamination considerably.

Part No.	Description	Quantity
VKV-4004-24ABL-100	Amber Glass 40ml + Black Screw Cap, PTFE/Silicone Septa	100 Pack
VKV-4004-24CBL-100	Clear Glass 40ml + Black Screw Cap, PTFE/Silicone Septa	100 Pack
VKV-4004-24CWL-100	Clear Glass 40ml + White Screw Cap, PTFE/Silicone Septa	100 Pack



VKV-4004-24CBL



VKV-4004-24CWL-100

HEADSPACE VIALS



Why Choose Headspace Vials?

Cronus® high quality headspace vials have a bevelled neck for a secure seal, uniform glass thickness for even heat distribution and a stable, strong design for ease of use. They are available with rounded or flat bottom profiles for accurate instrument compatibility. Use with 20mm headspace caps and septa and seal with 20mm crimping accessories.

Headspace Vials

Part No.	Description	Quantity
VZH-10CF-100	22.5x45mm, 10ml, Clear Glass, Flat Bottom	100 Pack
VZH-10CR-100	22.5x45mm, 10ml, Clear Glass, Round Bottom	100 Pack
VZH-20CF-100	22.5x75mm, 20ml, Clear Glass, Flat Bottom	100 Pack
VZH-20CR-100	22.5x75mm, 20ml, Clear Glass, Round Bottom	100 Pack



VZH-10CF-100



VZH-10CR-100



VZH-20CF-100



VZH-20CR-100

20mm Assembled Crimp Caps and Septa

Assembled 20mm closures and septa reduce contamination during sample preparation and save you time.

Part No.	Description	Quantity
VCA-2004CS-100	Standard Aluminium Seal with PTFE/Silicone Septum	100 Pack
VCA-2004MG-100	Magnetic Seal, Standard Aperture with PTFE/Silicone Septum	100 Pack
VCA-2004MS-100	Magnetic Seal, Small Aperture with PTFE/Silicone Septum	100 Pack
VCA-2004PS-100	Pressure Release Cap with PTFE/Silicone Septum	100 Pack
VCA-2004BM-100	Bi-Metallic Magnetic Seal, Standard Aperture with PTFE/Silicone Septum	100 Pack



Magnetic Crimp Caps

Cronus® magnetic crimp caps are suitable for autosamplers that use magnetic transportation.

The Cronus® 20mm bi-metallic magnetic headspace seal (VCA-2004BM-100) has a magnetic steel central disk making it suitable for magnetic transportation by an autosampler. It also has an aluminium skirt to allow easier crimping and decrimping.

See page 4 for 11mm magnetic crimp caps.



VCA-2004CS-100



VCA-2004MG-100



VCA-2004MS-100



VCA-2004PS-100



VCA-2004BM-100



20mm Caps for Headspace Vials

These aluminium crimp caps have an open top for sampling and require a septum for sealing.

Part No.	Description	Quantity
VCC-2002CS-1000	Standard Aluminium Seal	1000 Case
VCC-2002BM-500	Bimetallic Seal	500 Pack



VCC-2002CS-1000

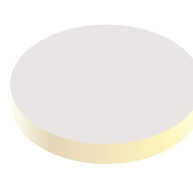


VCC-2002BM-500

20mm Septa and Stoppers for Headspace Caps

Use these 20mm septa and stoppers with 20mm headspace caps to create the perfect closure for your headspace vials.

Part No.	Description	Quantity
VCS-2004-1000	PTFE/Silicone	1000 Case
VCA-2002GE-1000	Moulded Grey Butyl Rubber Stopper	1000 Case



VCS-2004-1000



VCA-2002GE-1000

20mm CRIMPING ACCESSORIES

Electronic Vial Crimpers and Decappers

These rechargeable, cordless electronic crimpers and decappers are designed to crimp or decap hundreds of vials per charge. They can be set electronically to the precise level required for reliable, reproducible crimping and fit comfortably into your hand. Each crimper or decapper comes complete with long-life battery and charger.

Part No.	Description
5A20C0	20mm Electronic Vial Crimper (with battery and charger)
5A20D0	20mm Electronic Vial Decapper (with battery and charger)

(6.4V Volt, Universal Charger)



5A20C0



5A20D0

Crimpers & Decrimpers

- Painted, plated and coated for maximum corrosion resistance
- Adjustable stop for optimal sealing performance
- Textured handles for excellent grip
- Controlled, low-effort method for removing caps, reducing both sample spillage and breakages

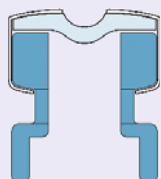
Part No.	Description
VTC-20	20mm Vial Crimper
VTD-20	20mm Vial Decrimper



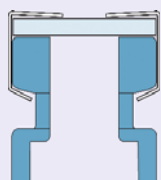
VTC-20



VTD-20



Over-crimped



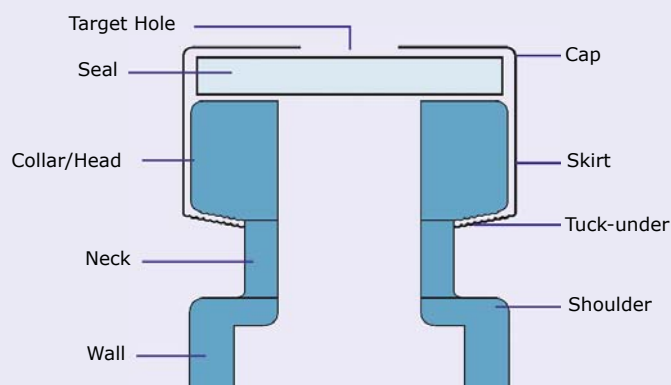
Under-crimped

Correct Vial Crimping

Achieve accurate results with correctly crimped vials.

A correctly crimped vial is neither over-crimped nor under-crimped. Over-crimping may cause coring or poor septum resealing, while under-crimping can cause evaporation problems.

With proper adjustment of the vial crimpers, perfect crimping can be achieved every time. When the vial is crimped perfectly, the cap should not be able to rotate and the septum should appear smooth and level.



Correctly Crimped Vial

STORAGE VIALS

Sample Storage Vials

These large volume vials are ideal for sample storage and general laboratory use.

Part No.	Description	Quantity
VZG-0413C-100	15x45mm, 4ml, 13-425 thread, Clear Glass	100 Pack
VZG-0815C-200	17x60mm, 8ml, 15-425 thread, Clear Glass	200 Pack
VZG-0815A-200	17x60mm, 8ml, 15-425 thread, Amber Glass	200 Pack
VZG-1215C-200	19x65mm, 12ml, 15-425 thread, Clear Glass	200 Pack
VZG-1215A-200	19x65mm, 12ml, 15-425 thread, Amber Glass	200 Pack
VZG-1618C-200	21x70mm, 16ml, 18-400 thread, Clear Glass	200 Pack
VZG-1618A-200	21x70mm, 16ml, 18-400 thread, Amber Glass	200 Pack
VZG-2220C-200	23x85mm, 22ml, 20-400 thread, Clear Glass	200 Pack
VZG-4024C-100	28x95mm, 40ml, 24-400 thread, Clear Glass	100 Pack
VZG-4024A-100	28x95mm, 40ml, 24-400 thread, Amber Glass	100 Pack



VZG-0413C-100

VZG-0815C-200

VZG-0815A-200



VZG-1215C-200

VZG-1215A-200

VZG-1618C-200

VZG-1618A-200



VZG-2220C-200

VZG-4024C-100

VZG-4024A-100

Screw Caps for Storage Vials

Solid top phenolic caps for our sample storage vials, complete with PTFE/rubber liners, are chemically resistant to moisture vapour and provide an inert surface for the vial contents. They are also suitable for autoclaving.

Part No.	Description	Quantity
VCA-1331TW-100	White, Solid-top, PTFE Liner, 13-425 thread	100 Pack
VCA-1332TB-100	Black Phenolic, Solid-top, PTFE/Rubber Liner, 13-425 thread	100 Pack
VCA-1531TW-100	White, Solid-top, PTFE Liner, 15-425 thread	100 Pack
VCA-1532TB-100	Black Phenolic, Solid-top, PTFE/Rubber Liner, 15-425 thread	100 Pack
VCA-1831TW-100	White, Solid-top, PTFE Liner, 18-400 thread	100 Pack
VCA-2031TW-100	White, Solid-top, PTFE Liner, 20-400 thread	100 Pack
VCA-2431TW-100	White, Solid-top, PTFE Liner, 24-400 thread	100 Pack



VCA-1331TW-100



VCA-1332TB-100



VCA-1531TW-100



VCA-1532TB-144



VCA-1831TW-100



VCA-2031TW-100



VCA-2431TW-100

Assembled 15-425 Caps and Septa

Pre-assembled screw caps and septa save time and reduce the chance of sample contamination. They are manufactured from high quality polypropylene.

Part No.	Description	Quantity
VCA-1504TB-100	Black with PTFE/Silicone Septum, 15-425 thread	100 Pack
VCA-1506TB-100	Black with Pre-slit PTFE/Silicone Septum, 15-425 thread	100 Pack



VCA-1504TB-100



VCA-1506TB-100

SHELL VIALS

Shell Vials

Shell vials feature thicker walls for safer sample handling. They are compatible with Waters WISP™ 48 and 96 style autosamplers.

All shell vials are supplied with polyethylene plug closures – their tear-away design ensures excellent penetration and ventilation during sampling.

Part No.	Description	Quantity
VKL-0103-GCC-250	8x40mm, 1ml, Clear Glass (with closures)	250 Pack
VKL-0202-GCC-100	12x32mm, 2ml, Clear Glass (with closures)	100 Pack
VKL-0402-GCC-100	15x45mm, 4ml, Clear Glass (with closures)	100 Pack



VKL-0103-GCC-250



VKL-0202-GCC-100



VKL-0402-GCC-100

VIAL STORAGE RACKS

Vial Racks

Part No.	Description	Quantity
VTRW4815-1	15mm Vials, 48 Position, White Polypropylene	Each
VTRW5012-1	12mm Vials, 50 Position, White Polypropylene	Each



VTRW5012-1

Vial Tainers

Part No.	Description	Quantity
VTBM-5	12x32mm Vials, 100 Position, Mixed Colours	5 Pack
VTBN-1	12x32mm Vials, 100 Position, Neutral	1 Pack



VTBN-1



VTBM-5

MICROSAMPLING VIALS

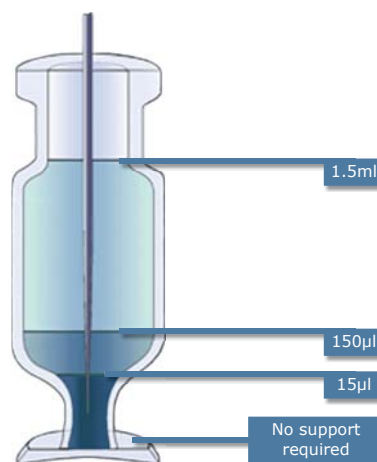
Why Choose Microsampling Vials?

Champagne Vials, **X-Vials** and **X-Vial Precision** are alternatives to limited volume inserts. They provide limited volumes without the need for separate inserts! All Cronus® microsampling vials are 12x32mm in size and so will work with most autosamplers.

Champagne Vials don't need inserts or supports and yet still handle small volumes! These vials provide an economical and flexible solution – offering a **1.5ml capacity** with a dead volume of just 15µl, Champagne Vials can be used with both **large and small samples**.

The **black opaque** Champagne Vials are ideal for use with **light-sensitive samples** where the sample may react or degrade even when using amber glass.

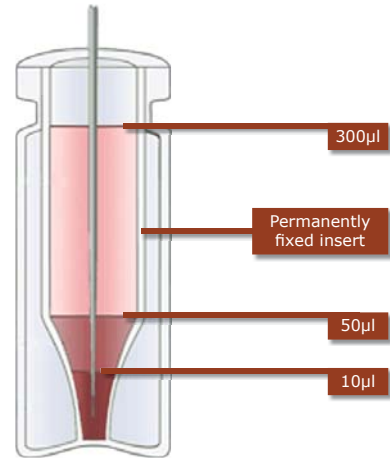
Part No.	Closure	Glass	Quantity
VZM-15CCC-100	Crimp	Clear	100 Pack
VZM-15CAC-100	Crimp	Amber	100 Pack
VZM-15CBC-95	Crimp	Black (opaque)	95 Pack
VZM-15SCC-100	Snap/Crimp	Clear	100 Pack
VZM-15SAC-100	Snap/Crimp	Amber	100 Pack
VZM-15SBC-95	Snap/Crimp	Black (opaque)	95 Pack
VZM-1508CC-100	8-425 thread	Clear	100 Pack
VZM-1508AC-100	8-425 thread	Amber	100 Pack
VZM-1509CC-100	9-425 thread	Clear	100 Pack
VZM-1509AC-100	9-425 thread	Amber	100 Pack
VZM-1509BC-95	9-425 thread	Black (opaque)	95 Pack
VZM-1510CC-100	10-425 thread	Clear	100 Pack
VZM-1510AC-100	10-425 thread	Amber	100 Pack



LARGE VOLUME 3.5ml Champagne Vials – See page 14

X-Vials are ideal for small samples with a **nominal volume of less than 300µl**. They have a conical-tubular insert permanently fused inside a standard 12x32mm autosampler vial. This makes the X-Vials very robust and **guarantees correct vertical alignment** – eliminating the possibility of needle breakage. X-Vials cost less than the price of using a separate vial with an insert!

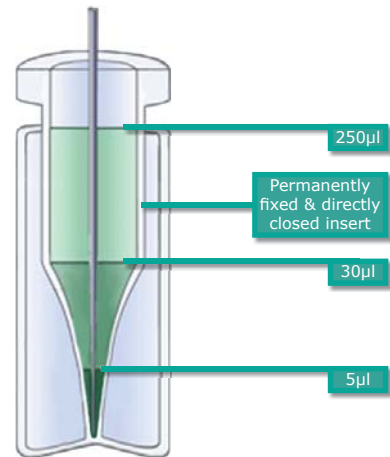
Part No.	Closure	Glass	Quantity
VZM-03CCF-100	Crimp	Clear	100 Pack
VZM-03CAF-100	Crimp	Amber	100 Pack
VZM-03SCF-100	Snap/Crimp	Clear	100 Pack
VZM-03SAF-100	Snap/Crimp	Amber	100 Pack
VZM-0309CF-100	9-425 thread	Clear	100 Pack
VZM-0309AF-100	9-425 thread	Amber	100 Pack
VZM-0310CF-100	10-425 thread	Clear	100 Pack
VZM-0310AF-100	10-425 thread	Amber	100 Pack



X-Vial Precision contain a precision drawn insert with a **dead volume of just 5µl** — ideal if you require total sample recovery or your autosampler uses a side port needle. What's more, the closure is an integral part of the insert thus **eliminating any chance of sample evaporation**.

With all X-Vials the base level of the insert is the same as a normal 12x32mm vial so you can use X-Vials **without having to adjust your autosampler**.

Part No.	Closure	Glass	Quantity
VZP-02CCF-100	Crimp	Clear	100 Pack
VZP-02CAF-100	Crimp	Amber	100 Pack
VZP-02SCF-100	Snap/Crimp	Clear	100 Pack
VZP-02SAF-100	Snap/Crimp	Amber	100 Pack



LIMITED VOLUME INSERTS

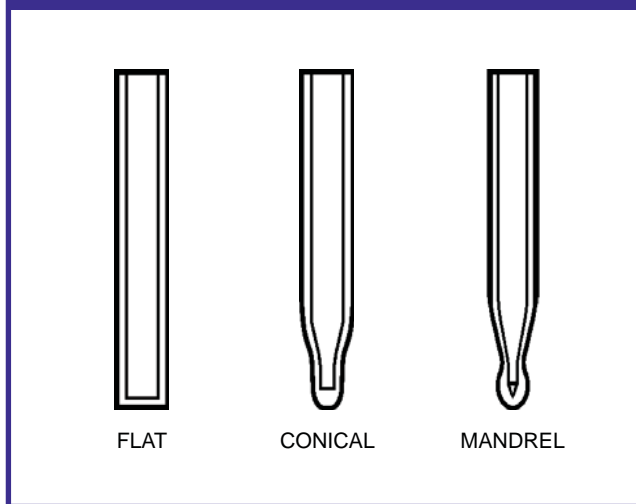
Why Choose Limited Volume Inserts?

Limited volume inserts are an economical solution in sample analysis to reduce the use and waste of solvents and small samples. For optimum instrument performance and accurate test results, use the guides below to ensure that the correct insert is used with the appropriate autosampler vial.

Selecting the correct insert

Solvent Compatibility	Glass is most commonly used for vial inserts. Polypropylene may be necessary when using pH sensitive samples.
Targeted Dead Volume	Mandrel point inserts provide the smallest dead volume so are suitable when minimising sample loss is important. Conical bottom inserts provide sufficient sample extraction for most applications.
Price	Flat bottom inserts are the cheapest and may be a viable option for limited sampling. Mandrel point vial inserts are the most expensive but they minimise sample loss and provide excellent injection accuracy.

Insert Profiles



Part No.	Description	Profile	Volume	Dead Volume	Quantity	Crimp & Snap/Crimp	8mm Screw	9mm Screw	10mm Screw
VIN-0102C-1000	Glass vial insert	Flat	200µl	3µl	1000 Case		✓	✓	
VIN-0103C-100	Glass vial insert	Flat	350µl	3µl	100 Pack	✓			✓
VIN-0201C-100	Glass vial insert	Conical	100µl	1µl	100 Pack		✓		
VIN-0202C-100	Glass vial insert	Conical	200µl	3µl	100 Pack	✓		✓	✓
VIS-0201P-100	Polypropylene vial insert with polypropylene bottom support spring	Conical	100µl	1µl	100 Pack		✓	✓	
VIS-0301C-100	Glass vial insert with polypropylene bottom support spring	Mandrel	100µl	1µl	100 Pack		✓		
VIS-0302C-100	Glass vial insert with polypropylene bottom support spring	Mandrel	250µl	2µl	100 Pack	✓			✓



VIN-0102C-1000



VIN-0103C-100



VIN-0201C-100



VIN-0202C-100



VIS-0201P-100



VIS-0301C-100









VIS-0302C-100

Polypropylene Microtiter Plates

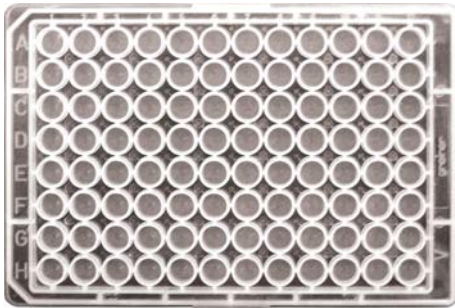
Polypropylene microplates are manufactured from **non-toxic, virgin high-clarity material**. They are **chemically and thermally resistant**, tolerating temperatures from -80°C to 80°C.

Conforming to the **SBS standard footprint design** and incorporating low draft sidewalls for robotic handling, the design ensures **compatibility with most existing plate handling equipment**. They can be sealed with microplate cap mats and feature raised wells for thermal or adhesive sealing.

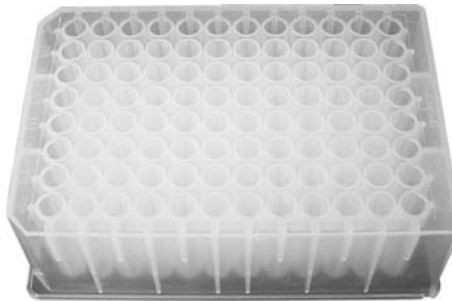
Part No.	Description	Volume	Well Shape	Bottom Profile	Quantity
MP096-1121	96 Well Plate, Non-Sterile	220µl	Round		100 Pack
MP096-1111	96 Well Plate, Non-Sterile	300µl	Round		100 Pack
MP096-1131	96 Well Plate, Non-Sterile	370µl	Round		100 Pack
MP096-1211	96 Deep Well Plate, Non-Sterile	1.2ml	Round		100 Pack
MP384-1121	384 Well Plate, Non-Sterile	120µl	Square		100 Pack
MP384-1241	384 Deep Well Plate, Non-Sterile	240µl	Square		60 Pack

Ideal for:

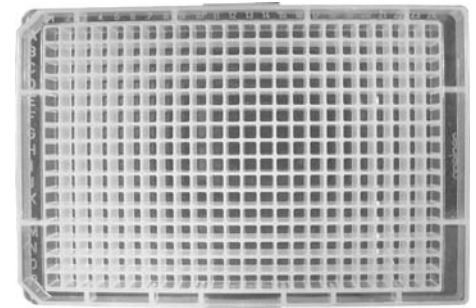
- Pharmaceutical applications
- Sample collection & storage
- Combinatorial chemistry
- HTS applications



MP096-1121



MP096-1211



MP384-1121

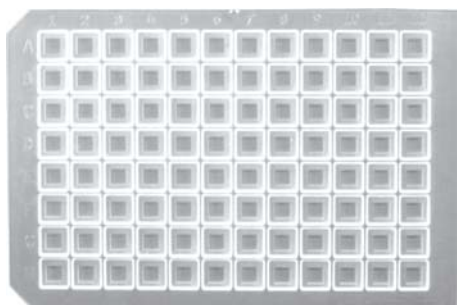
Microplate Cap Mats

100% pure silicone sealing mats for microplates. Compatible with glass coated, polypropylene and polystyrene well plates.

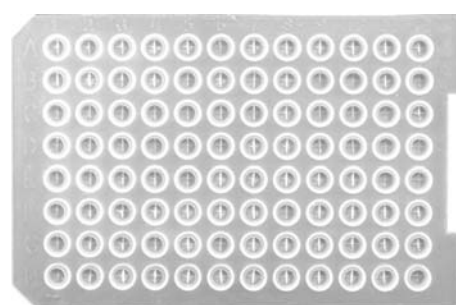
Benefits include:

- Manufactured from 100% pure silicone
- Superior resealability – up to 100 injections
- Resistance to coring and tearing
- Pre-slit versions available for easy penetration and reduced vacuum
- Eliminates sample cross-contamination
- Dry heat autoclavable
- Superior chemical compatibility
- Smaller footprint so plates can be securely stacked without causing problems with robotic arms

Part No.	Wells	Well Shape	Style	Pre-Slit	Quantity
MM096-3041	96	Square	PTFE Coated	X	5 Pack
MM096-3341	96	Square	PTFE Coated	X	5 Pack
MM096-3051	96	Round	PTFE Coated	✓	5 Pack
MM096-3351	96	Round	PTFE Coated	✓	5 Pack



MM096-3041



MM096-3351

Optimise performance and results by choosing the right septum for your application:

PTFE

- Exceptional solvent resistance
- Only suitable for single injection use – not recommended for sample storage before or after injection
- Not resealable
- The most economical septa
- Maximum service temperature 260°C

PTFE/Silicone

- Excellent resealing capabilities – highly recommended for multiple injections and sample storage
- Autoclavable and excellent resistance to coring
- PTFE chemical resistance until pierced then the septa will have the compatibility of silicone
- Temperature range -40°C to 200°C

Pre-slit PTFE/Silicone

- Reduces the possibility of coring with blunt tipped needles or for applications using a thin gauge needle
- Used to prevent vacuum from forming inside the vial
- Temperature range -40°C to 200°C

PTFE/Silicone/PTFE

- Recommended for multiple injections due to above average resealing capabilities
- Autoclavable and excellent resistance to coring
- Recommended for demanding applications such as internal standards, trace analysis or applications where there will be a long time between injections
- Temperature range -40°C to 200°C

PTFE/Red Rubber

- The most economical septa used in routine analysis
- Easy to pierce with moderate resealability
- PTFE chemical resistance until pierced then the septa will have the compatibility of rubber
- Not recommended when retaining samples for further analysis or for multiple injections
- Temperature range -40°C to 110°C

Moulded Polypropylene

- Only suitable for single injection use – not recommended for sample storage before or after injection
- Not resealable
- Temperature range 0°C to 130°C



VIAL CROSS REFERENCE CHART

Agilent	Varian	Waters	Chromacol	Finneran	National	Cronus®	Page
Crimp Cap Vials, 12x32mm							
5181-3375	392611634	WAT094222		32011-1232	C4011-1	VZS-02CC-100	4
5182-0543			2-CV	32011M-1232	C4011-1W	VZS-02CC-100	
5181-3376	392611635	WAT094223	2-CV(A)	3211M-1232A	C4011-2W	VZS-02CA-100	
Snap/Crimp Cap Vials, 12x32mm							
5182-0544				32011S-1232	C4011-5	VZS-02SC-100	6
5182-0546		WAT094219	2-RV	32011SM-1232	C4011-5W	VZS-02SC-100	
5181-0545		WAT094220	2-RV(A)	3211SM-1232A	C4011-6W	VZS-02SA-100	
8mm Screw Cap Vials, 12x32mm							
5183-4428	392611639			32008-1232	C4013-1	VZS-0208C-100	8
			2-SV	32008M-1232	C4013-1W	VZS-0208C-100	
5183-4429	392611640			32008-1232A	C4013-2	VZS-0208A-100	
			2-SV(A)	32008M-1232A	C4013-2W	VZS-0208A-100	
9mm Screw Cap Vials, 12x32mm							
5182-0714	392611653			32009-1232	C4000-1	VZS-0209C-100	10
5182-0715		186000273	2-SVW	32009M-1232	C4000-1W	VZS-0209C-100	
	392611654			32008-1232A	C4000-2	VZS-0209A-100	
5182-0716		186000848	2-SVW(A)	32009M-1232A	C4000-2W	VZS-0209A-100	
10mm Screw Cap Vials, 12x32mm							
		WAT063300		32010-1232	C4010-1	VZS-0210C-100	12
				32010M-1232	C4010-1W	VZS-0210C-100	
				32010-1232A	C4010-2	VZS-0210A-100	
				32010M-1232A	C4010-2W	VZS-0210A-100	
15x45mm Screw Cap Vials							
5183-4448		186000840	4-SV		C4015-1	VZS-0415C-100	14
				34013-1545	C4015-11W	VZS-0415C-100	
5183-4450		186001135	4-SV(A)		C4015-2	VZS-0415A-100	
				34013-1545A	C4015-2W	VZS-0415A-100	
Headspace Vials							
5182-0838	392611677			310020-2346	C4020-10	VZH-10CF-100	16
5183-4475			10-CV	310020A-2346	C4020-210	VZH-10CR-100	
5182-0837	392611675		20-CV	320020-2375	C4020-20	VZH-20CF-100	
5183-4474				320020A-2375	C4020-2	VZH-20CR-100	
Microsampling Vials							
			03-FIV			VZM-03CCF-100	20
			03-FIV(A)			VZM-03CAF-100	
			03-FIRV		C4011-LV1	VZM-03SCF-100	
			03-FIRV(A)		C4011-LV2	VZM-03SAF-100	
			03-FISV		C4000-LV1	VZM-0309CF-100	
			03-FISV(A)		C4000-LV2	VZM-0309AF-100	
					C4010-LV1	VZM-0310CF-100	
					C4010-LV2	VZM-0310AF-100	
5184-3351					C4011-V1	VZM-15CCC-100	
5184-3555					C4011-V2	VZM-15CAC-100	
5184-3552						VZM-15SCC-100	
5184-3556						VZM-15SAC-100	
5184-3550					C4000-V1	VZM-1509CC-100	
5184-3554					C4000-V2	VZM-1509AC-100	
					C4010-V1	VZM-1510CC-100	
					C4010-V2	VZM-1510AC-100	

*This cross reference chart is for guide purposes only – products may not match the exact specifications.

AUTOSAMPLER & VIAL COMPATIBILITY GUIDE

	Model	Vial Dimensions	Vial Type	Bottom Profile
Agilent/HP	1050	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	1090	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	1100	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	6850	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread) Screw (10mm wide mouth)	
	7670A	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	7671A	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	7673 Series	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	7683	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	7694 Headspace	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Flat Flat
	All other models	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
Alcott	718AL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
	719D	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
	738	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
Alltech	570	12x32mm 15x45mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth) Screw (13-425 thread)	
	580	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
Beckman	501	12x32mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	502	12x32mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	507	12x32mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	

	Model	Vial Dimensions	Vial Type	Bottom Profile
Beckman	Marathon	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	Promis	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	Triathlon	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
Bruker	LC51	15x45mm	Screw (13-425 thread)	
Carlo Erba/Fisons	42 Vial Tray	12x32mm 15x45mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread) Screw (13-425 thread)	
	AS105	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	AS800/8000	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	HS250	22.5x45mm	Crimp (20mm)	Round
	HS500	22.5x45mm	Crimp (20mm)	Round
	HS800	22.5x45mm	Crimp (20mm)	Round
Chrompack	HS850	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Flat Flat
	CP-9020	22.5x45mm	Crimp (20mm)	Round
	CP-9025	22.5x45mm	Crimp (20mm)	Round
Dani	ALS 39.80	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	ALS 86.80	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	HS 39.50	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Flat Flat
	HS 86.50	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Flat Flat
	Gina	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
Dionex/Gynkotek	ASI 100 (2ml tray)	12x32mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	AS 509 (2ml tray)	12x32mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
Dynatech/Precision	42 Vial Tray	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	LC2000	12x32mm	Screw (9mm short thread)	

	Model	Vial Dimensions	Vial Type	Bottom Profile
Gerstel	MS2	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	Round Round
		22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	
Gilson	201	15x45mm	Screw (13-425 thread)	
	202	15x45mm	Screw (13-425 thread)	
	221	15x45mm	Screw (13-425 thread)	
	222	15x45mm	Screw (13-425 thread)	
	231/231XL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
			Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	232/232XL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	233XL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	234	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	235	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	401	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	402	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	ASPEC	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
			15x45mm	Screw (13-425 thread)
All other models	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)		
HTA	HT200H	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Round Round
		HT250D/ HT280T	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)
	22.5x45mm 22.5x75mm		Crimp (20mm) Crimp (20mm)	
	HT300A/ HT310A	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
	HT300L	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	

	Model	Vial Dimensions	Vial Type	Bottom Profile
Jasco	All models	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
			MSI 660	15x45mm
Kontron	All other models	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
LDC	Marathon	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
Leap Technologies	A200LC	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	CTC DI PAL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	CTC Combi PAL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	CTC A200E PAL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	Round
		22.5x46mm	Crimp (20mm)	
	CTC HTS PAL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	CTC LC Mini PAL	12x32mm	15x45mm	Screw (13-425 thread)
			Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	CTC A200S PAL	12x32mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
	HS500	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Round Round
AS-2000			12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)
AS-4000	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)		
L7200	12x32mm 15x45mm	Screw (8mm standard) Screw (9mm short thread) Screw (13-425 thread)		
		L7250	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth) Screw (13-425 thread)
L8800	12x32mm 15x45mm	Snap/Crimp (11mm) Screw (9mm short thread)		
		LaChrom	15x45mm	Screw (13-425 thread)

AUTOSAMPLER & VIAL COMPATIBILITY GUIDE

REFERENCE INFORMATION

	Model	Vial Dimensions	Vial Type	Bottom Profile
Perkin Elmer	AI-1	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	Auto-system	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
		15x45mm	Screw (13-425 thread)	
	HS 6	22x38mm	Crimp (20mm)	Round
	HS 40	22.5x75mm	Crimp (20mm)	Round
	HS 100	22.5x75mm	Crimp (20mm)	Round
	HS 101	22.5x75mm	Crimp (20mm)	Round
	Integral 4000	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	Round
		22x38mm	Crimp (20mm)	
	ISS 100	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
ISS 200	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)		
LC 600 42 Vial Tray	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)		
Series 200	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)		
Pharmacia	LKB 2157-010	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
Shimadzu	AOC-14	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
		15x45mm	Screw (13-425 thread)	
	AOC-1400	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
		15x45mm	Screw (13-425 thread)	
	AOC-17	12x32mm	Screw (8mm standard)	
		15x45mm	Screw (13-425 thread)	
	AOC-20i	12x32mm	Screw (8mm standard) Screw (10mm wide mouth)	
		15x45mm	Screw (13-425 thread)	
	AOC-20s	12x32mm	Screw (8mm standard) Screw (10mm wide mouth)	
		15x45mm	Screw (13-425 thread)	
	AOC-5000	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Round Round
	AOC-8B	12x32mm	Screw (8mm standard)	
	LC-10A	15x45mm	Screw (13-425 thread)	
	SIL-2AS	15x45mm	Screw (13-425 thread)	
	SIL-6B	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
Screw (9mm short thread)				
SIL-9A	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)		
SIL-10A	12x32mm	Screw (8mm standard)		

	Model	Vial Dimensions	Vial Type	Bottom Profile
Shimadzu	SIL-HTa	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
	SIL-HTc	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
Spark Holland	Marathon	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	Midas	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
	Promis	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	SPH 125	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
	Triathlon	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
Spectra-Physics/TSP	8875	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
	8880	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
	AS100/1000	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
	AS300/3000	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
	HS2000	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Round Round
Tekmar-Dohrmann	7000HT	22.5x75mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
			Crimp (20mm)	Round
ThermoQuest	AS800	12x32mm	Screw (8mm standard)	
	Midas	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard)	
	HS500	22.5x45mm	Crimp (20mm)	Round
	HS850	22.5x45mm 22.5x75mm	Crimp (20mm)	Flat Flat
			Crimp (20mm)	
	Trace GC 2000 + AS2000	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
Trace GC 2000 + HS2000	22.5x45mm 22.5x75mm	Crimp (20mm) Crimp (20mm)	Flat Flat	

	Model	Vial Dimensions	Vial Type	Bottom Profile
Tosoh	AS-8010	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	TSK-6080	12x32mm 15x45mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread) Screw (13-425 thread)	
Unicam	4247	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	4710	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	LC-XP	12x32mm 15x45mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (13-425 thread)	
Varian	8035	12x32mm	Screw (8mm standard) Screw (9mm short thread)	
	8100	12x32mm 15x45mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (13-425 thread)	
	8200	12x32mm 15x45mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (13-425 thread)	
	8200 CX	12x32mm 22.5x45mm	Screw (9mm short thread) Crimp (20mm)	Round or Flat
	9090	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	9095	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	9100	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	CombiPAL	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread)	
	CP-8400	12x32mm 22.5x45mm	Screw (9mm short thread) Crimp (20mm)	Round or Flat
	CP-8410	12x32mm 22.5x45mm	Screw (9mm short thread) Crimp (20mm)	Round or Flat
	Genesis	22x38mm 22.5x45mm	Crimp (20mm) Crimp (20mm)	Round Round or Flat
	Marathon	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (10mm wide mouth)	
ProStar 400	12x32mm	Snap/Crimp (11mm) Screw (9mm short thread)		
ProStar 410	12x32mm	Snap/Crimp (11mm) Screw (9mm short thread)		

	Model	Vial Dimensions	Vial Type	Bottom Profile
Varian	ProStar 420	12x32mm	Snap/Crimp (11mm) Screw (9mm short thread)	
	ProStar 430	12x32mm	Snap/Crimp (11mm) Screw (9mm short thread)	
	Ultra GC/MS	12x32mm 22.5x45mm	Screw (9mm short thread) Crimp (20mm)	Round or Flat
	Vista	12x32mm	Screw (8mm standard) Screw (9mm short thread)	
Waters	2690	12x32mm	Crimp (11mm) Snap/Crimp (11mm) Screw (9mm short thread)	
	2710 Sample Manager	12x32mm	Snap/Crimp (11mm) Screw (9mm short thread)	
	48 Position	15x45mm	Shell Vial Screw (13-425 thread)	
	96 Position	8x40mm	Shell Vial	
	Alliance	12x32mm 15x45mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (13-425 thread)	
	Breeze	12x32mm 15x45mm	Snap/Crimp (11mm) Screw (8mm standard) Screw (9mm short thread) Screw (13-425 thread)	
	710	12x32mm 15x45mm	Crimp (11mm) Screw (13-425 thread)	
	712	12x32mm 15x45mm	Crimp (11mm) Screw (13-425 thread)	
	715	12x32mm 15x45mm	Crimp (11mm) Screw (13-425 thread)	
	717	12x32mm 15x45mm	Crimp (11mm) Screw (13-425 thread)	



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