

## *Chromatography Vials & Closures*



## **Our Company**

Kinesis is a company that prides itself on supplying quality chromatography and liquid handling consumables, instrumentation and service. Established in 1997, we have developed partnerships with leading manufacturers, and combined with our own brand of chromatography accessories, offer a comprehensive range of products and services for pharmaceutical, agrochemical, environmental, food safety and clinical customers.

Being in direct and close contact with our customers and manufacturers alike, Kinesis understand the challenges of modern analysis continually working to offer optimal solutions to meet customer needs.

The company has offices in four countries: UK, Germany, United States and Australia. A network of international distributors supports all other countries.

## **Vials, Caps & Septa**

### ***Peace of Mind***

Kinesis appreciates the demands of today's HPLC, LC/MS and GC analysis. In particular, contamination free sample handling and the requirements for trouble-free autosampler operation are pivotal to reporting data on time with accuracy and precision.

### ***Quality***

Products with the ISO 9001:2000 certification have the required standard for today's analytical laboratory. State of the art manufacturing and measurement equipment as well as in-process and final quality control procedures ensure dimensionally accurate products.

### ***Reliability***

To ensure autosamplers function reliably, our vials, caps and septa meet the rigorous specifications demanded by both the analysis and the instrument itself. In particular, state of the art opto-electronic measurement devices check the dimensions of each vial.

Defined hardness and cleanliness properties ensure there is a septum available to be both fully compatible with the autosampler needle and meet the demands of the specific analysis.

### ***Cleanliness***

Mass spectrometry is now commonplace in the majority of analytical laboratories. The resulting lower analyte detection limits make vial and septum cleanliness pivotal for dependable results.

For mass spectrometry applications the LC/MS and GC/MS tested and batch certified caps are 100% traceable. This provides complete peace of mind, allowing detection limits to be reached and ion suppression issues minimised.

Following high temperature annealing, all vials carrying a CleanPack label are packaged in a class 10,000 cleanroom. These are the same standards demanded by the pharmaceutical industry.

## **Our Vials**

### *Glass Type*

All vials are made from 1<sup>st</sup> hydrolytic class 51 expansion glass. The physical properties allow the manufacturing of clean, precision fit vials. Vials manufactured with alternative expansion glass lead to inferior quality with greater tolerances and extractables.

First hydrolytic glass exhibits excellent chemical resistance to acidic and neutral solutions. In addition, the relatively low alkaline content also ensures compatibility with alkaline solutions.

### *Vial Options*

The comprehensive range of vials includes micro and fused-inserts, standard 2ml autosampler and larger sample storage, headspace and EPA vials.

Wide opening, short thread and snap-cap are just a few of the neck options. The different designs ensure full automation compatibility (Agilent®, Waters®, Perkin Elmer®, CTC and ThermoFisher Scientific) for both vial handling and needle positioning. In addition, screw, crimp and snap-caps offer the optimum choice for sealing or ease of use.

### *Silanised Vials*

The silanisation process reduces the concentration of free hydroxyl groups on the inner surface of the vial. This minimises the adsorption of polar compounds, including amino-acids, proteins and phenols to the inner surface of the vial.

## **Our Septa**

### *UltraClean*

High purity Silicone/PTFE septa are optimised for GC and headspace analysis.

### *UltraBond*

With the UltraBond seal system, the cap and septum form a one-piece unit. This is achieved with a patented bonding process without the use of adhesives, avoiding any form of contamination of the sample.

### *Red Rubber/PTFE*

Red Rubber is a synthetic rubber with minimal fragmentation and an improved level of cleanliness compared with natural rubber. A PTFE coating ensures chemical compatibility.

### *Natural Rubber/TEF*

A natural, TEF coated product with excellent resealing properties.

















### *Silicone/PTFE*

The cleanest solution for contaminant free sample handling.

### *PTFE/Silicone/PTFE*

PTFE laminated to both sides of high purity silicone prevents coring.

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8mm Manual Crimper

8mm Manual Decapper



**Pre-crimped vials are also available**

**Crimp Neck Vials 8mm**

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, flat bottom	0.7	40 x 7	10 x 100	CRV08-03
Amber glass, flat bottom	0.7	40 x 7	10 x 100	CRV08-03A
Clear glass, rounded bottom	0.3	31.5 x 5.5	10 x 100	CRV08-05
Clear glass, conical	0.3	31.5 x 5.5	10 x 100	CRV08-06
Clear glass, conical	0.7	40 x 7	10 x 100	CRV08-04
Amber glass, conical	0.7	40 x 7	10 x 100	CRV08-04A
Amber glass, conical	0.4	30 x 7	10 x 100	CRV08-01A
Clear glass, flat bottom	0.8	30 x 8.2	10 x 100	CRV08-02
Clear glass, flat bottom	1.2	40 x 8.2	10 x 100	CRV08-08
Amber glass, flat bottom	1.2	40 x 8.2	10 x 100	CRV08-08A

**Aluminium Crimp Seals 8mm, clear lacquered, centre hole, with septa**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
PTFE	0.25	53° shore D	10 x 100	CRC08-01
Natural Rubber red-orange/TEF transparent	1.0	60° shore A	10 x 100	CRC08-02
Silicone dark blue/PTFE white	1.3	45° shore A	10 x 100	CRC08-07
Silicone white/PTFE red <i>UltraClean</i>	1.3	45° shore A	10 x 100	CRC08-04
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	CRC08-03
Silicone white/PTFE red, with slit	1.3	45° shore A	10 x 100	CRC08-04S
8mm PE Push-on Cap, blue, with thinned penetration area (only for non-critical analysis, no septa)	-	-	10 x 100	SNC08-06

Further 8mm Crimp Seals are available on request

**Vial Racks for Crimp Neck Vials 8mm**

Description	Pack Size	Part No.
Vial Rack Acrylic, 173 x 95 x 20mm, 50 hole with 8.5mm diameter	EACH	VR08-50

Further Vial Racks are available on request



## Crimp Neck Vials 11mm and Seals



### Crimp Neck Vials 11mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, wide opening	1.5	32 x 11.6	10 x 100	CRV12-02
Clear glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	CRV12-02L
Amber glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	CRV12-02LA
Microliter-Vial, with 15µl inner cone	1.1	32 x 11.6	10 x 100	CRV12-07
Total Microliter Snap Ring Vial	0.9	32 x 11.6	10 x 100	SNV12-11
Crimp Neck Micro-Vial, clear glass, conical	1.1	32 x 11.6	10 x 100	CRV12-06
Micro-Vial, clear glass, conical	0.9	32 x 10	10 x 100	CRV12-11
Crimp Neck Vial with integrated Micro-Insert	0.2	32 x 11.6	10 x 100	CRV12-09
TopSert™ TPX® Snap Ring Vial, clear, with integrated glass Micro-Insert	0.2	32 x 11.6	10 x 100	SNV12-03TS
As above (silanised)	0.2	32 x 11.6	10 x 100	SNV12-03TSZ
TopSert TPX Snap Ring Vial amber with integrated glass Micro-Insert	0.2	32 x 11.6	10 x 100	SNV12-03TSA
As above (silanised)	0.2	32 x 11.6	10 x 100	SNV12-03TSAZ
Clear glass, wide opening	2.5	41 x 11.6	10 x 100	CRV12-10

### Micro-Inserts for 11mm Vials

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, conical, 15mm taper	0.1	31 x 6	10 x 100	INWC-01
As above (silanised)	0.1	31 x 6	10 x 100	INWC-01Z
Clear glass, conical, 12mm taper	0.1	31 x 6	10 x 100	INWC-02
Clear glass, with polymer spring	0.1	29 x 6	10 x 100	INWC-01SP
As above (silanised)	0.1	29 x 6	10 x 100	INWC-01SPZ
Clear glass, flat bottom	0.2	31 x 6	10 x 100	INWF-01



### Vial Racks for Crimp Neck Vials 11mm

Description	Pack Size	Part No.
Vial Rack Acrylic, 173 x 95 x 20mm, 50 hole with 12mm diameter*	EACH	VR12-50

Further Vial Racks are available on request

\*also suitable for conical vials

**Aluminium Crimp Seals 11mm, clear lacquered, centre hole, with septa**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
PTFE	0.25	53° shore D	10 x 100	CRC11-01
Natural Rubber/Butyl/TEF	1.0	60° shore A	10 x 100	CRC11-02
Red Rubber/PTFE beige (Agilent Quality)	1.0	45° shore A	10 x 100	CRC11-02A
Natural Rubber/Butyl/TEF, blue cap	1.0	45° shore A	10 x 100	CRC11-02B
Natural Rubber/Butyl/TEF, green cap	1.0	45° shore A	10 x 100	CRC11-02G
Natural Rubber/Butyl/TEF, red cap	1.0	45° shore A	10 x 100	CRC11-02R
Natural Rubber/Butyl/TEF, golden cap	1.0	45° shore A	10 x 100	CRC11-02Y
Silicone dark blue/PTFE white	1.3	45° shore A	10 x 100	CRC11-04B
Silicone white/PTFE red	1.3	45° shore A	10 x 100	CRC11-04
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	CRC11-03
Silicone white/PTFE blue, cross-slitted	1.5	45° shore A	10 x 100	CRC11-04BS
PE Push-on Cap, blue, with thinned penetration area (only for non-critical analysis, no septa)	-	55° shore A	10 x 100	SNC11-06B

**Magnetic Crimp Seals 11mm, gold, centre hole, with septa**

for CTC GC PAL, Shimadzu® AOC-5000 and Thermo TriPlus

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone white/PTFE red	1.3	45° shore A	10 x 100	CRC11-04M
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	CRC11-03M

**Smart Packs (Vials & Caps)**

Smart Packs are consumer friendly packaging units containing 100 vials and caps. The advantages of the individual components, like the cleanroom packaging of the vials or the tamper-evident packaging of the vials and the caps, remain unaffected. The handy box is resealable, in order to avoid contamination during use. Further combinations are available on request.

**Smart Packs (Vials & Caps)**

Description	Pack Size	Part No.
Crimp Neck Vial 2ml + Rubber/PTFE Cap (CRV12-02 + CRC11-02)	10 x 100	KSP-CRV-02
Crimp Neck Vial 2ml + PTFE/Silicone/PTFE Cap (CRV12-02 + CRC11-03)	10 x 100	KSP-CRV-03
Crimp Neck Vial 2ml + Silicone/PTFE Cap (CRV12-02 + CRC11-04)	10 x 100	KSP-CRV-04
Crimp Neck Vial 2ml + Silicone/PTFE Cap Slit (CRV12-02 + CRC11-04BS)	10 x 100	KSP-CRV-04S
Crimp Neck Vial 2ml Label + Rubber/PTFE Cap (CRV12-02L + CRC11-02)	10 x 100	KSP-CRVL-02
Crimp Neck Vial 2ml Label + PTFE/Silicone/PTFE Cap (CRV12-02L + CRC11-03)	10 x 100	KSP-CRVL-03
Crimp Neck Vial 2ml Label + Silicone/PTFE Cap (CRV12-02L + CRC11-04)	10 x 100	KSP-CRVL-04
Crimp Neck Vial 2ml Label + Silicone/PTFE Cap Slit (CRV12-02L + CRC11-04BS)	10 x 100	KSP-CRVL-04S
Crimp Neck Vial 2ml, Amber, Label + Rubber/PTFE Cap (CRV12-02LA + CRC11-02)	10 x 100	KSP-CRVLA-02
Crimp Neck Vial 2ml, Amber, Label + PTFE/Silicone/PTFE Cap (CRV12-02LA + CRC11-03)	10 x 100	KSP-CRVLA-03
Crimp Neck Vial 2ml, Amber, Label + Silicone/PTFE Cap (CRV12-02LA + CRC11-04)	10 x 100	KSP-CRVLA-04
Crimp Neck Vial 2ml, Amber, Label + Silicone/PTFE Cap Slit (CRV12-02LA + CRC11-04BS)	10 x 100	KSP-CRVLA-04S

## Screw Neck Vials 8mm and Seals



### Screw Neck Vials 8mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass	1.5	32 x 11.6	10 x 100	SCV12-01
Clear glass, label + filling lines	1.5	32 x 11.6	10 x 100	SCV12-01L
Amber glass	1.5	32 x 11.6	10 x 100	SCV12-01A
Amber glass, label + filling lines	1.5	32 x 11.6	10 x 100	SCV12-01LA
Micro-Vial, clear glass, conical	1.1	32 x 11.6	10 x 100	SCV12-04

### Micro-Inserts for 8mm Vials

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, conical, 15mm taper	0.1	31 x 5	10 x 100	INSC-01
Clear glass, conical, 9mm taper	0.1	31 x 5	10 x 100	INSC-02
Clear glass, flat bottom	0.1	31 x 5	10 x 100	INSF-01
Clear glass, with polymer spring	0.1	29 x 5	10 x 100	INSC-01SP
Clear glass, conical	0.05	27.5 x 4	10 x 100	INSC-005
Metal spring	-	36 x 5	10 x 100	SPR08-01

### PP Screw Seals 8mm, black, centre hole, with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Natural Rubber/TEF	1.3	60° shore A	10 x 100	SCCSEP08-02
Natural Rubber/TEF, closed top	1.3	60° shore A	10 x 100	SCC08-02C
Silicone white/PTFE red	1.3	45° shore A	10 x 100	SCCSEP08-04
PTFE red/Silicone white/PTFE red <i>UltraClean</i>	1.0	45° shore A	10 x 100	SCCSEP08-03
Silicone white/PTFE red, slitted	1.3	45° shore A	10 x 100	SCCSEP08-04S

Further 8mm Screw Seals, also with white caps, are available on request

### PP Screw Caps 8mm, without septa

Description	Thickness (mm)	Material	Pack Size	Part No.
Black, with centre hole	-	PP	10 x 100	SCC08-B
Black, without centre hole	-	PP	10 x 100	SCC08-BC

### Septa for Screw Caps 8mm

Description	Thickness (mm)	Hardness	Pack Size	Part No.
PTFE (only unassembled)	0.25	53° shore D	1000	SEP08-01
Natural Rubber/PTFE	1.0	60° shore A	1000	SEP08-02
Silicone white/PTFE blue, slitted	0.9	55° shore A	1000	SEP08-04S
Silicone white/PTFE red	1.3	45° shore A	1000	SEP08-04
PTFE red/Silicone white/PTFE red	1.0	45° shore A	1000	SEP08-03
Silicone blue transparent/PTFE white	1.3	45° shore A	1000	SEP08-04B





### Short Thread Vials 9mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, wide opening	1.5	32 x 11.6	10 x 100	STV12-02
As above (silanised)	1.5	32 x 11.6	10 x 100	STV12-02S
Clear glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	STV12-02L
Amber glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	STV12-02LA
As above (silanised)	1.5	32 x 11.6	10 x 100	STV12-02LAS
Microliter-Vial, with 15µl inner cone	1.1	32 x 11.6	10 x 100	STV12-10
Total Microliter Short Thread Vial	0.9	32 x 11.6	10 x 100	STV12-11
Short Thread Vial with integrated Micro-Insert	0.2	32 x 11.6	10 x 100	STV12-03
TopSert TPX Vial transparent, with integrated glass Micro-Insert	0.2	32 x 11.6	10 x 100	STV12-03TS
As above (silanised)	0.2	32 x 11.6	10 x 100	STV12-03TSZ
TopSert TPX Vial amber, with integrated glass Micro-Insert	0.2	32 x 11.6	10 x 100	STV12-03TSA
As above (silanised)	0.2	32 x 11.6	10 x 100	STV12-03TSAZ
PP Short Thread Micro-Vial, transparent	0.3	32 x 11.6	10 x 100	STV12-03P
TPX PP Short Thread Micro-Vial, transparent		32 x 11.6	10 x 100	STV12-03T
PP Short Thread Micro-Vial, transparent	0.7	32 x 11.6	10 x 100	STV12-04P
PP Short Thread Micro-Vial, amber	0.3	32 x 11.6	10 x 100	STV12-03PA
PP Short Thread Vial, transparent, with label and filling lines + slightly concave shaped inner bottom	1.5	32 x 11.6	10 x 100	STV12-02P
PP Short Thread Vial, amber, with label and filling lines + slightly concave shaped inner bottom	1.5	32 x 11.6	10 x 100	STV12-02PA

### Micro-Inserts for 9mm Vials

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, conical, 15mm taper	0.1	31 x 6	10 x 100	INWC-01
As above (silanised)	0.1	31 x 6	10 x 100	INWC-01Z
Clear glass, conical, 12mm taper	0.1	31 x 6	10 x 100	INWC-02
Clear glass, with polymer spring	0.1	29 x 6	10 x 100	INWC-01SP
As above (silanised)	0.1	29 x 6	10 x 100	INWC-01SPZ
Clear glass, flat bottom	0.2	31 x 6	10 x 100	INWF-01



### PP Short Thread Screw Seals 9mm, centre hole, with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
<b>With transparent cap:</b>				
PTFE	0.2	53° shore D	10 x 100	SCC09-01
Natural Rubber/TEF	1.0	60° shore A	10 x 100	SCC09-02
Silicone white/PTFE red	<b>UltraClean</b> 1.0	55° shore A	10 x 100	SCC09-04
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SCC09-03
Silicone white/PTFE blue, slitted	1.0	55° shore A	10 x 100	SCC09-04S
Silicone white/PTFE red, pre-cut (Y)	1.0	55° shore A	10 x 100	SCC09-04S(Y)
<b>With blue cap:</b>				
PTFE	0.2	53° shore D	10 x 100	SCC09-01B
Natural Rubber/TEF	1.0	60° shore A	10 x 100	SCC09-02B
Red Rubber/PTFE beige (Agilent Quality)	1.0	45° shore A	10 x 100	SCC09-02BA
Natural Rubber/TEF, blue, closed top cap	1.0	60° shore A	10 x 100	SCC09-02BC
Silicone white/PTFE red	<b>UltraClean</b> 1.0	55° shore A	10 x 100	SCC09-04B
Silicone white/PTFE red, blue, closed top cap	1.0	55° shore A	10 x 100	SCC09-04BC
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SCC09-03B
Silicone white/PTFE blue, slitted	1.0	55° shore A	10 x 100	SCC09-04BS
Silicone white/PTFE red, pre-cut (Y)	1.0	55° shore A	10 x 100	SCC09-04S(Y)
<b>With red cap:</b>				
PTFE	0.2	53° shore D	10 x 100	SCC09-01R
Natural Rubber/TEF	1.0	60° shore A	10 x 100	SCC09-02R
Silicone white/PTFE red	<b>UltraClean</b> 1.0	55° shore A	10 x 100	SCC09-04R
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SCC09-03R
Silicone white/PTFE blue, slitted	1.0	55° shore A	10 x 100	SCC09-04RS
<b>With green cap:</b>				
PTFE	0.2	53° shore D	10 x 100	SCC09-01G
Natural Rubber/TEF	1.0	60° shore A	10 x 100	SCC09-02G
Red Rubber/PTFE beige (Agilent Quality)	1.0	45° shore A	10 x 100	SCC09-02GA
Silicone white/PTFE red	<b>UltraClean</b> 1.0	55° shore A	10 x 100	SCC09-04G
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SCC09-03GA
Silicone white/PTFE blue, slitted	1.0	55° shore A	10 x 100	SCC09-04GS

### UltraBond™ Seals 9mm, PP Short Thread Seals (cap + septa are bonded together)

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone white/PTFE red, black cap	1.3	45° shore A	10 x 100	SCC09-04U
Silicone white/PTFE beige, blue cap	1.3	45° shore A	10 x 100	SCC09-04W
Silicone white/PTFE beige, slitted, blue cap	1.3	45° shore A	10 x 100	SCC09-04WS



### Vial Racks for 1.5ml Vials

Description	Pack Size	Part No.
Vial Rack Acrylic, 173 x 95 x 20mm, 50 hole with 12mm diameter*	EACH	VR12-50

Further Vial Racks are available on request

\*also suitable for conical vials

### Magnetic Short Thread Seal for CTC GC PAL and Thermo TriPlus

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone white/PTFE red	1.0	55° shore A	10 x 100	SCC09-04M



### NEW: MS Cap, 9mm Short Thread Cap

Description	Pack Size	Part No.
9mm Short Thread MS Cap, one component closure	10 x 100	SCC09-06MS

No bleeding, one component closure for GC/MS and LC/MS applications

All MS applications require extremely clean vials and closures, as this method of analysis is very sensitive to any kind of contamination. Therefore it is common to only use Silicone/PTFE septa in this field of chromatography as the purest available liner material. However, most end users still experience problems with even the highest grades of Silicone/PTFE septa due to ghost peaks arising from volatile siloxanes. Various treatments of the septa can reduce the level of these volatiles, but not eliminate the basic problem. The MS Cap was therefore developed as a one component 9mm Short Thread Cap that doesn't require a septa. This cap is inert and shows a similar chemical resistance to PTFE. Thus it can be used for sealing vials with all kinds of samples without losing inertness. Furthermore the cap is made out of a special material that is pierceable with all common types of HPLC and GC needles, as it has a thinned penetration area with a diaphragm. Although it has no septa, evaporation tests have shown that it is liquid- and gas-tight. Each manufactured batch is LC/MS and GC/MS controlled and supplied with an appropriate certificate. The certificate states instrument, column and other method conditions being used for the test. Samples can be requested at: sales@kinesis.co.uk.



### Smart Packs (Vials & Caps)

Any combination of 1.5ml vials with a cap of choice can be supplied as a Smart Pack.



### Smart Packs (Vials & Caps)

Description	Pack Size	Part No.
Screw Neck Vial 2ml + Natural Rubber/TEF Cap (STV12-02 + SCC09-02B)	10 x 100	KSP-STV-02
Screw Neck Vial 2ml + Silicone/PTFE Cap (STV12-02 + SCC09-04B)	10 x 100	KSP-STV-04
Screw Neck Vial 2ml + PTFE/Silicone/PTFE Cap (STV12-02 + SCC09-03B)	10 x 100	KSP-STV-03
Screw Neck Vial 2ml + Silicone/PTFE Cap, slitted (STV12-02 + SCC09-04BS)	10 x 100	KSP-STV-04S
Screw Neck Vial 2ml Label + Natural Rubber/TEF Cap (STV12-02L + SCC09-02B)	10 x 100	KSP-STVL-02
Screw Neck Vial 2ml Label + Silicone/PTFE Cap (STV12-02L + SCC09-04B)	10 x 100	KSP-STVL-04
Screw Neck Vial 2ml Label + PTFE/Silicone/PTFE Cap (STV12-02L + SCC09-03B)	10 x 100	KSP-STVL-03
Screw Neck Vial 2ml Label + Silicone/PTFE Cap (STV12-02L + SCC09-04BS)	10 x 100	KSP-STVL-04S
Screw Neck Vial 2ml Amber Label + Natural Rubber/TEF Cap (STV12-02LA + SCC09-02B)	10 x 100	KSP-STVLA-02
Screw Neck Vial 2ml Amber Label + Silicone/PTFE Cap (STV12-02LA + SCC09-04B)	10 x 100	KSP-STVLA-04
Screw Neck Vial 2ml Amber Label + PTFE/Silicone/PTFE Cap (STV12-02LA + SCC09-03B)	10 x 100	KSP-STVLA-03
Screw Neck Vial 2ml Amber Label + Silicone/PTFE Cap, slitted (STV12-02LA + SCC09-04BS)	10 x 100	KSP-STVLA-04S

## Plastic Vials 9mm and Plastic Micro-Vials 9 and 11mm



### Plastic Vials 9mm and Plastic Micro-Vials 9 and 11mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
PP Short Thread Vial, transparent, with filling lines, slightly concave shaped inner bottom	1.5	32 x 11.6	10 x 100	STV12-02P
PP Short Thread Vial, amber, with filling lines, slightly concave shaped inner bottom	1.5	32 x 11.6	10 x 100	STV12-02PA
PP Short Thread Micro-Vial, transparent	0.7	32 x 11.6	10 x 100	STV12-04P
PP Snap Ring Micro-Vial, transparent	0.7	32 x 11.6	10 x 100	SNV12-04P
PP Short Thread Micro-Vial, transparent	0.3	32 x 11.6	10 x 100	STV12-03P
PP Short Thread Micro-Vial, amber	0.3	32 x 11.6	10 x 100	STV12-03PA
PP Snap Ring Micro-Vial, transparent	0.3	32 x 11.6	10 x 100	CRV12-03P
PP Snap Ring Micro-Vial, amber	0.3	32 x 11.6	10 x 100	CRV12-03PA
TopSert TPX Short Thread Micro-Vial, crystal clear	0.3	32 x 11.6	10 x 100	STV12-03T
TopSert TPX Snap Ring Micro-Vial, crystal clear	0.3	32 x 11.6	10 x 100	SNV12-03T

## Screw Neck Vials 10mm and Seals



### Screw Neck Vials 10mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, wide opening	1.5	32 x 11.6	10 x 100	SCV12-02
Clear glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	SCV12-02L
Amber glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	SCV12-02LA

**Micro-Inserts for 10mm Vials**

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, conical, 15mm taper	0.1	31 x 6	10 x 100	INWC-01
As above (silanised)	0.1	31 x 6	10 x 100	INWC-01Z
Clear glass, conical, 12mm taper	0.1	31 x 6	10 x 100	INWC-02
Clear glass, with polymer spring	0.1	29 x 6	10 x 100	INWC-01SP
As above (silanised)	0.1	29 x 6	10 x 100	INWC-01SPZ
Clear glass, flat bottom	0.2	31 x 6	10 x 100	INWF-01

**PP Screw Seals 10mm, black, centre hole, with septa**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Natural Rubber/TEF	1.3	60° shore D	10 x 100	SCCSEP10-02
Silicone white/PTFE red	1.3	45° shore A	10 x 100	SCCSEP10-04
PTFE red/Silicone white/PTFE red <b>UltraClean</b>	1.0	45° shore A	10 x 100	SCCSEP10-03
Silicone white/PTFE blue, slitted	1.5	55° shore A	10 x 100	SCCSEP10-04S

**PP Screw Caps 10mm, without septa**

Description	Thickness (mm)	Material	Pack Size	Part No.
Black, with centre hole	-	PP	10 x 100	SCC10-B
Black, without centre hole	-	PP	10 x 100	SCC10-BC

**Septa for Screw Caps 10mm**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
PTFE (only unassembled)	0.25	53° shore D	1000	SEP10-01
Natural Rubber/PTFE	1.3	60° shore A	1000	SEP10-02
Silicone white/PTFE red	1.3	45° shore A	1000	SEP10-04

**Vial Racks for 1.5ml Vials**

Description	Pack Size	Part No.
Vial Rack Acrylic, 173 x 95 x 20mm, 50 hole with 12mm diameter*	EACH	VR12-50

\*also suitable for conical vials



## Snap Ring Vials 11mm and Seals



### Snap Ring Vials 11mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, wide opening	1.5	32 x 11.6	10 x 100	SNV12-02
Clear glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	SNV12-02L
Amber glass, wide opening, label + filling lines	1.5	32 x 11.6	10 x 100	SNV12-02LA
Total Microliter Snap Ring Vial	0.9	32 x 11.6	10 x 100	SNV12-11
TopSert TPX Vial transparent, with integrated glass Micro-Insert	0.2	32 x 11.6	10 x 100	SNV12-03TS
As above (silanised)	0.2	32 x 11.6	10 x 100	SNV12-03TSZ
TopSert TPX Vial, amber, with integrated glass Micro-Insert	0.2	32 x 11.6	10 x 100	SNV12-03TSA
As above (silanised)	0.2	32 x 11.6	10 x 100	SNV12-03TSAZ
PP Snap Ring Micro-Vial, transparent	0.3	32 x 11.6	10 x 100	CRV12-03P
TPX PP Snap Ring Micro-Vial, transparent	0.3	32 x 11.6	10 x 100	SNV12-03T
PP Snap Ring Micro-Vial, amber	0.3	32 x 11.6	10 x 100	CRV12-03PA
PP Snap Ring Micro-Vial, transparent	0.7	32 x 11.6	10 x 100	SNV12-04P

### Micro-Inserts for 11mm Vials

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, conical, 15mm taper	0.1	31 x 6	10 x 100	INWC-01
As above (silanised)	0.1	31 x 6	10 x 100	INWC-01Z
Clear glass, conical, 12mm taper	0.1	31 x 6	10 x 100	INWC-02
Clear glass with polymer spring	0.1	29 x 6	10 x 100	INWC-01SP
As above (silanised)	0.1		10 x 100	INWC-01SPZ
Clear glass, flat bottom	0.2	31 x 6	10 x 100	INWF-01



### Vial Racks for 1.5ml Vials

Description	Pack Size	Part No.
Vial Rack Acrylic, 173 x 95 x 20mm, 50 hole with 12mm diameter*	EACH	VR12-50

\*also suitable for conical vials

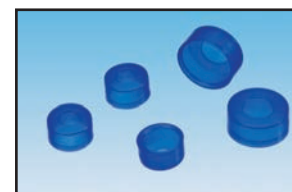
**PE Snap Ring Seals 11mm, centre hole, with septa**

Description	Thickness (mm)	Hardness	Pack Size	Part No. (Hard Cap)	Part No. (Soft PE Cap)
<b>With transparent cap</b>					
Natural Rubber/TEF	1.0	60° shore A	10 x 100	SNC11-02	SNC11-02S
Silicone white/PTFE red <i>UltraClean</i>	1.3	45° shore A	10 x 100	SNC11-04	SNC11-04S
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SNC11-03	SNC11-03S
Silicone white/PTFE blue, cross-slitted	1.0	55° shore A	10 x 100	SNC11-07	SNC11-07S
<b>With blue cap</b>					
Natural Rubber/TEF	1.0	60° shore A	10 x 100	SNC11-02B	SNC11-02BS
Red Rubber/PTFE beige (Agilent Quality)	1.0	45° shore A	10 x 100	-	SNC11-02BSA
Silicone white/PTFE red <i>UltraClean</i>	1.3	45° shore A	10 x 100	SNC11-04B	SNC11-04BS
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SNC11-03B	SNC11-03BS
Silicone white/PTFE blue, cross-slitted	1.0	55° shore A	10 x 100	SNC11-07B	SNC11-07BS
<b>With red cap</b>					
Natural Rubber/TEF	1.0	60° shore A	10 x 100	SNC11-02R	
Silicone white/PTFE red <i>UltraClean</i>	1.3	45° shore A	10 x 100	SNC11-04R	
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SNC11-03R	
Silicone white/PTFE blue, cross-slitted	1.0	55° shore A	10 x 100	SNC11-07R	

**Black or Yellow Caps available on request**

**PE Push-on Cap 11mm**

Description	Pack Size	Part No.
PE Push-on Cap 11mm, blue, thinned penetration area (only for non-critical analysis, no septa)	10 x 100	SNC11-06B

**Smart Packs (Vials & Caps)**

Any combination of 1.5ml vials with a cap of choice can be supplied as a Smart Pack.

**Smart Packs (Vials & Caps)**

Description	Pack Size	Part No.
Snap Ring Vial 2ml + Natural Rubber/TEF Cap (SNV12-02 + SNC11-02)	10 x 100	KSP-SNV-02
Snap Ring Vial 2ml + PTFE/Silicone/PTFE Cap (SNV12-02 + SNC11-03)	10 x 100	KSP-SNV-03
Snap Ring Vial 2ml + Silicone/PTFE Cap (SNV12-02 + SNC11-04)	10 x 100	KSP-SNV-04
Snap Ring Vial 2ml + Silicone/PTFE Cap, slitted (SNV12-02 + SNC11-07)	10 x 100	KSP-SNV-04S
Snap Ring Vial 2ml Label + Natural Rubber/TEF Cap (SNV12-02L + SNC11-02)	10 x 100	KSP-SNVL-02
Snap Ring Vial 2ml Label + PTFE/Silicone/PTFE Cap (SNV12-02L + SNC11-03)	10 x 100	KSP-SNVL-03
Snap Ring Vial 2ml Label + Silicone/PTFE Cap (SNV12-02L + SNC11-04)	10 x 100	KSP-SNVL-04
Snap Ring Vial 2ml Label + Silicone/PTFE Cap, slitted (SNV12-02L + SNC11-07)	10 x 100	KSP-SNVL-04S
Snap Ring Vial 2ml, Amber, Label + Natural Rubber/TEF Cap (SNV12-02LA + SNC11-02)	10 x 100	KSP-SNVLA-02
Snap Ring Vial 2ml, Amber, Label + PTFE/Silicone/PTFE Cap (SNV12-02LA + SNC11-03)	10 x 100	KSP-SNVLA-03
Snap Ring Vial 2ml, Amber, Label + Silicone/PTFE Cap (SNV12-02LA + SNC11-04)	10 x 100	KSP-SNVLA-04
Snap Ring Vial 2ml, Amber, Label + Silicone/PTFE Cap, slitted (SNV12-02LA + SNC11-07)	10 x 100	KSP-SNVLA-04S

## Screw Neck Vials 13mm and Seals



### Screw Neck Vials 13mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass	4.0	45 x 14.75	10 x 100	SCV15-01
Clear glass, label + filling lines	4.0	45 x 14.75	10 x 100	SCV15-01L
Amber glass	4.0	45 x 14.75	10 x 100	SCV15-01A
Amber glass, label + filling lines	4.0	45 x 14.75	10 x 100	SCV15-01LA

### Micro-Insert for 13mm Vials

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, conical (spring required)	0.3	40 x 6	10 x 100	INC48-01
Metal spring for Micro-Insert INC48-01	-	50 x 7.5	10 x 100	SPR13-01

### PP Screw Caps 13mm, black, centre hole, with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Natural Rubber/TEF	1.3	60° shore A	10 x 100	SCCSEP13-02
Butyl red/PTFE grey	1.3	55° shore A	10 x 100	SCCSEP13-09
Silicone cream/PTFE red	1.5	55° shore A	10 x 100	SCCSEP13-04
PTFE red/Silicone white/PTFE red	1.0	45° shore A	10 x 100	SCCSEP13-03
Silicone white/PTFE blue, cross-slitted	1.5	55° shore A	10 x 100	SCCSEP13-07

Further Screw Seals 13mm with either open top or closed top screw cap are available on request

### Screw Caps 13mm, without septa

Description	Thickness (mm)	Material	Pack Size	Part No.
Black, centre hole	-	PP	10 x 100	SCC13-B
Black, closed top	-	PP	10 x 100	SCC13-BC

### Septa for Screw Caps 13mm

Description	Thickness (mm)	Hardness	Pack Size	Part No.
PTFE (only unassembled)	0.25	53° shore A	1000	SEP13-01
Natural Rubber/TEF	1.3	60° shore A	1000	SEP13-02
Silicone cream/PTFE red	1.5	55° shore A	1000	SEP13-04
Silicone white/PTFE blue, cross-slitted	1.5	55° shore A	1000	SEP12-04S
PTFE red/Silicone white/PTFE red	1.0	45° shore A	1000	SEP13-03



### Vial Rack for 4ml Vials

Description	Pack Size	Part No.
Vial Rack Acrylic, 175.8 x 115.5 x 20mm, 40 hole with 15.1mm diameter	EACH	VR15-40





\*only to be used in conjunction with an insert

### Shell Vials with PE Plugs

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, with PE Plug, transparent	1.0	35 x 7.8	10 x 100	SV1PC08-02
Clear glass, with PE Plug soft, transparent	1.0	40 x 8	10 x 100	SV1PC08-03
Amber glass, with PE Plug, transparent	1.0	40 x 8	10 x 100	SV1PC08-03A
Clear glass, with PE Plug hard, transparent (only to be used in conjunction with Micro-Insert INC96-01)	1.0	40 x 8	10 x 100	SV1PC08-01
Amber glass, with PE Plug hard, transparent (only to be used in conjunction with Micro-Insert INC96-01)	1.0	40 x 8	10 x 100	SV1PC08-01A
Clear glass with PE Plug, transparent	2.0	31.5 x 11.6	10 x 100	SV2PC12-01
Amber glass with PE Plug, transparent	2.0	31.5 x 11.6	10 x 100	SV2PC12-01A
Clear glass with PE Plug, transparent	4.0	44.6 x 14.65	10 x 100	SV4PC15-01
Amber glass with PE Plug, transparent	4.0	44.6 x 14.65	10 x 100	SV4PC15-01A

### Micro-Inserts for Shell Vials

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, conical (for 1ml Shell Vial SV1PC08-01 + SV1PC08-01A)	0.1	34 x 5	10 x 100	INC96-01
Clear glass, conical (for 2ml Shell Vial SV2PC12-01 + SV2PC12-01A)	0.1	31 x 6	10 x 100	INWC-01
Clear glass, conical (for 4ml Shell Vial SV4PC15-01 + SV4PC15-01A)	0.3	43.5 x 6	10 x 100	INC48-02

### Shell Vials PP with PE Plugs

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
PP Shell Vial, clear 8mm PE Plug, transparent	1.0	40 x 8	10 x 100	SV1PC08-01P
PP Shell Vial, clear, with inner cone 15mm PE Plug, transparent	3.0	44.6 x 14.65	10 x 100	SV3PC15-01P
PP Shell Vial, clear 15mm PE Plug, transparent	4.0	44.6 x 14.65	10 x 100	SV4PC15-01P
PP Micro-Insert, clear, 10mm top, with filling line	0.1	29 x 6	10 x 100	INC-01P
PP Micro-Insert, clear, 10mm top, with filling line and assembled plastic spring	0.1	29 x 6	10 x 100	INC-01PS
PP Micro-Insert, clear, flat bottom	0.2	31 x 6	10 x 100	INF-01P

## Headspace Vials 18/20mm and Seals



CRV05-01



CRV10-02  
CRV10-02A



CRV10-01



CRV20-01  
CRV20-01A



CRV20-01L



CRV20-01H



CRV20-01C  
CRV20-01CA



CRV06-01



CRV10-03



CRV50-01



SCV20-01

## Headspace Vials 20mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, crimp neck, rounded bottom (Perkin Elmer)	5.0	38.2 x 22	10 x 100	CRV05-01
Clear glass, DIN crimp neck, rounded bottom (Carlo Erba, CTC, Fisons and Varian (CP))	10	46 x 22.5	10 x 100	CRV10-02
Amber glass, DIN crimp neck, rounded bottom (Carlo Erba, CTC, Fisons, Varian (CP))	10	46 x 22.5	10 x 100	CRV10-02A
Clear glass, DIN crimp neck, flat bottom, long neck (Carlo Erba, Dani, Fisons and Agilent)	10	46 x 22.5	10 x 100	CRV10-01
Clear glass, crimp neck, rounded bottom (Perkin Elmer and Tekmar®)	20	75.5 x 23	10 x 100	CRV20-01
Amber glass, crimp neck, rounded bottom (Perkin Elmer and Tekmar)	20	75.5 x 23	10 x 100	CRV20-01A
Clear glass, crimp neck, rounded bottom, with label and filling lines (Perkin Elmer and Tekmar)	20	75.5 x 23	10 x 100	CRV20-01L
Clear glass, DIN crimp neck, flat bottom, long neck (Carlo Erba, Dani, Fisons and Agilent)	20	75.5 x 22.5	10 x 100	CRV20-01H
Clear glass, DIN crimp neck, rounded bottom, (CTC PAL Varian, Gerstel, Atas, Shimadzu and TriPlusHS™)	20	75.5 x 22.5	10 x 100	CRV20-01C
Amber glass, DIN crimp neck, rounded bottom (CTC PAL Varian, Gerstel, Atas, Shimadzu and TriPlusHS)	20	75.5 x 22.5	10 x 100	CRV20-01CA
Clear glass, crimp neck, flat bottom (Varian)	5.0	38 x 20	10 x 100	CRV06-01
Clear glass, crimp neck, flat bottom (Varian)	10	54.5 x 20	10 x 100	CRV10-03
Clear glass, crimp neck, flat bottom	50	101 x 31	10 x 100	CRV50-01
Clear glass, rounded bottom screw 18mm (Perkin Elmer)	20	75.5 x 23	10 x 100	SCV20-01

### Aluminium Crimp Seals 20mm, centre hole, with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Moulded Septa Butyl, dark grey	3.0	55° shore A	10 x 100	CRC20-08
Butyl/PTFE grey	3.0	50° shore A	10 x 100	CRC20-09P
Pharma-Fix Septa Butyl/PTFE	3.0	50° shore A	10 x 100	CRC20-02PH
Silicone blue transparent/PTFE white <i>UltraClean</i>	3.0	45° shore A	10 x 100	CRC20-04B
Silicone white/PTFE beige	3.25	45° shore A	10 x 100	CRC20-04
Silicone white/PTFE beige (Agilent HT Quality)	3.25	45° shore A	10 x 100	CRC20-04A
Silicone white/Aluminium foil silver	3.0	50° shore A	10 x 100	CRC20-11P

### Headspace Crimp Seals 20mm (pressure release caps), with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Butyl/PTFE grey	3.0	50° shore A	10 x 100	CRC20-09
Pharma-Fix Septa Butyl/PTFE	3.0	50° shore A	10 x 100	CRC20-02HPH
Silicone blue transparent/PTFE white <i>UltraClean</i>	3.0	45° shore A	10 x 100	CRC20-04BH
Silicone white/PTFE beige (Agilent HT Quality)	3.25	45° shore A	10 x 100	CRC20-04AH
Silicone white/Aluminium foil silver	3.0	50° shore A	10 x 100	CRC20-11

### Crimp Seal and Stopper

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Aluminium Crimp Cap, 20mm, centre hole and Butyl Stopper, grey	-	-	1000 + 10 x 100	CRC20-0P + SEP20-02IS

Further seals with centre tear off caps, complete tear off caps and coloured caps are also available on request

### Magnetic Crimp Caps 20mm, 8mm hole, with Septa for CTC PAL, Agilent Combi PAL, Varian, Gerstel, Atas and Shimadzu AOC5000

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Butyl/PTFE grey	3.0	50° shore A	10 x 100	CRC20-09MW
Pharma-Fix Septa Butyl/PTFE	3.0	50° shore A	10 x 100	CRC20-09MWP
Silicone blue transparent/PTFE transparent <i>UltraClean</i>	3.0	45° shore A	10 x 100	CRC20-04MW

### Magnetic Bimetal Cap 20mm, 8mm hole, with Septa for CTC PAL, Agilent Combi PAL, Varian, Gerstel, Atas and Shimadzu AOC5000

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone blue transparent/PTFE transparent <i>UltraClean</i>	3.0	45° shore A	10 x 100	CRC20-04BMW
Butyl/PTFE grey	3.0	50° shore A	10 x 100	CRC20-09BM







**PE Caps 22 x 9.2mm, with septa for DIN Crimp Neck**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Natural Rubber/TEF	1.3	60° shore A	10 x 100	SNC22-02
Butyl red/PTFE grey	1.3	55° shore A	10 x 100	SNC22-09
Silicone blue transparent/PTFE white	1.3	45° shore A	10 x 100	SNC22-04B
Cap with 6mm centre hole, Silicone blue transparent/PTFE white, Y-slitted	1.3	45° shore A	10 x 100	SNC22-04BS

**PE Caps 22 x 8.4mm, with Septa for Headspace Vials with bevelled top**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Natural Rubber/TEF	1.3	60° shore A	10 x 100	SNC22-02H
Butyl red/PTFE grey	1.3	55° shore A	10 x 100	SNC22-09H
Silicone blue transparent/PTFE white	1.3	45° shore A	10 x 100	SNC22-04BH

**Septa and Stoppers for Crimp Caps 20mm**

	Description	Thickness (mm)	Hardness	Pack Size	Part No.
	Moulded Septa Butyl, dark grey	3.0	55° shore A	1000	SEP20-08
	Moulded Septa Butyl/PTFE, grey	3.0	50° shore A	1000	SEP20-09
	Pharma-Fix Septa Butyl/PTFE, grey	3.0	50° shore A	1000	SEP20-02PH
	Silicone Septa blue transparent/PTFE white	3.0	45° shore A	1000	SEP20-04T
	Silicone Septa white/PTFE beige, 45° shore A, 3.25mm (Agilent HT Quality) <b>UltraClean</b>	3.25	45° shore A	1000	SEP20-04
	20mm Butyl Injection Stopper, grey (recommended by Perkin Elmer)	-	-	1000	SEP20-02IS

**PP Screw Seals 18mm, with septa for Headspace Vial (SCV20-01)**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Butyl red/PTFE grey, 12mm hole	1.6	55° shore A	10 x 100	SCCSEP18-02
Butyl red/PTFE grey, closed top	1.6	55° shore A	10 x 100	SCCSEP18-02C
Silicone blue transparent/PTFE white, 12mm hole	1.7	45° shore A	10 x 100	SCCSEP18-04
Silicone blue transparent/PTFE white, closed top	1.7	45° shore A	10 x 100	SCCSEP18-04C

As magnetic caps are fairly hard to crimp, Screw Neck Vials (10 and 20ml) and Magnetic Screw Seals have been developed for the CTC instruments. Each vial features a precision thread with multiple screw turns which forces the septa against the vial to form a gas-tight seal. The screw thread guarantees the cap fits with a flat surface every time which ensures that the vial does not drop off the system magnet. Old methods of crimping the vials can result in transportation problems caused by deformed cap surfaces.

The centre hole is designed to be suitable for both SPME as well as for standard headspace analysis, whilst still offering enough surface for the magnet to transport a completely filled vial. The thinner septa allows the needle to penetrate easily and safely with less particulates being generated than with the 3mm thick headspace septa.

Once the analysis is complete, screw caps offer a more convenient method of separating the vial and seal for waste disposal purposes. A closed top screw cap is also available for sample storage.

As crimping always involves the risk of incorrectly or inconsistently sealed vials, Precision Thread Headspace Vials are the preferred method for a more reliable and reproducible seal.



SCV10-01  
SCV10-01A

SCV20-02  
SCV20-02A

### Precision Thread Headspace Vials 18mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Precision Thread Headspace Vials, clear glass	10	46 x 22.5	10 x 100	SCV10-01
Precision Thread Headspace Vials, amber glass	10	46 x 22.5	10 x 100	SCV10-01A
Precision Thread Headspace Vials, clear glass	20	75.5 x 22.5	10 x 100	SCV20-02
Precision Thread Headspace Vials, amber glass	20	75.5 x 22.5	10 x 100	SCV20-02A

### Magnetic Universal Screw Seals 18mm, with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone blue/PTFE white <i>UltraClean</i>	1.5	55° shore A	10 x 100	SCCSEP18-04BM
Silicone blue transparent/PTFE white <i>UltraClean</i>	1.3	45° shore A	10 x 100	SCCSEP18-04TBM
Silicone white/PTFE red <i>UltraClean</i>	1.3	45° shore A	10 x 100	SCCSEP18-04M
As above (closed top screw cap) <i>UltraClean</i>			10 x 100	SCCSEP18-04MC
Butyl red/PTFE grey*	1.6	55° shore A	10 x 100	SCCSEP18-09M
Red Rubber/PTFE beige	1.0	45° shore A	10 x 100	SCCSEP18-02M

\*not recommended by CTC

### Septa for Magnetic Universal Screw Seals 18mm

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone blue/PTFE white <i>UltraClean</i>	1.5	55° shore A	1000	SEP18-04B
Silicone blue transparent/PTFE white <i>UltraClean</i>	1.3	45° shore A	1000	SEP18-04TB

# Headspace Crimp Neck Vials 20mm and Seals

for CTC Combi PAL, Agilent Combi PAL, Gerstel, Varian and Shimadzu AOC-5000



CRV10-02  
CRV10-02A



CRV20-01C  
CRV20-01CA



CRV20-01S  
(FOR SPME)

## Headspace Vials Crimp Neck 20mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, DIN crimp neck, rounded bottom	10	46 x 22.5	10 x 100	CRV10-02
Amber glass, DIN crimp neck, rounded bottom	10	46 x 22.5	10 x 100	CRV10-02A
Clear glass, DIN crimp neck, rounded bottom	20	75.5 x 22.5	10 x 100	CRV20-01C
Amber glass, DIN crimp neck, rounded bottom	20	75.5 x 22.5	10 x 100	CRV20-01CA

5mm centre hole available on request

## Magnetic Crimp Seals 20mm, 8mm centre hole, with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Butyl/PTFE, grey	3.0	50° shore A	10 x 100	CRC20-09MW
Pharma-Fix Septa Butyl/PTFE	3.0	50° shore A	10 x 100	CRC20-09MWP
Silicone blue transparent/PTFE transparent <b>UltraClean</b>	3.0	45° shore A	10 x 100	CRC20-04MW

## Bimetal Crimp Seals 20mm, red lacquered, centre hole, with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone blue transparent/PTFE transparent <b>UltraClean</b>	3.0	45° shore A	10 x 100	CRC20-04BMW
Butyl/PTFE, grey	3.0	50° shore A	10 x 100	CRC20-09BM

## SPME Vial with special Crimp Neck 20mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass, especially thick crimp neck, rounded bottom	20	75.5 x 22.5	10 x 100	CRV20-01S

## Magnetic Crimp Seals 20mm for SPME Vial (CRV20-01S), with septa

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone white/PTFE blue <b>UltraClean</b>	1.5	55° shore A	10 x 100	CRC20-04BMS
Viton, black	1.0	70° shore A	10 x 100	CRC20-07M

Description	Pack Size	Part No.
Crimper for 20mm Crimp Caps	EACH	CRT-20
Decapper for 20mm Crimp Caps	EACH	DCT-20



### PE Caps 22 x 9.2mm, with septa for Headspace Vials with DIN Crimp Neck

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone blue transparent/PTFE white	1.3	45° shore A	10 x 100	SNC22-04B
Cap with 6mm centre hole, Silicone blue transparent/PTFE white, Y-slitted	1.3	45° shore A	10 x 100	SNC22-04BS

### Washer Bottles for CTC



CRV10-02



CRV120-01

### Vial Racks for Headspace Vials

Description	Pack Size	Part No.
Vial Rack Acrylic, 160 x 160 x 30mm, 25 hole with 24mm diameter	EACH	VR24-25

Further Vial Racks are available on request



### Smart Packs (Vials & Caps)

Any combination of 20ml vial with a cap of choice can be supplied as a Smart Pack.



## EPA Screw Neck Vials 24mm and Seals



### EPA Screw Neck Vials 24mm

Description	Volume (ml)	Dimensions (mm)	Pack Size	Part No.
Clear glass	20	57 x 27.5	10 x 100	EPA20C
Amber glass	20	57 x 27.5	10 x 100	EPA20A
Clear glass	30	72.5 x 27.5	10 x 100	EPA30C
Amber glass	30	72.5 x 27.5	10 x 100	EPA30A
Clear glass	40	95 x 27.5	10 x 100	EPA40C
Amber glass	40	95 x 27.5	10 x 100	EPA40A
Clear glass	60	140 x 27.5	10 x 100	EPA60C
Amber glass	60	140 x 27.5	10 x 100	EPA60A

### UltraBond Screw Seals 24mm (cap + septa bonded together)

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone white/PTFE beige, centre hole	3.2	45° shore A	10 x 100	SCCSEP24-04EPAO
Silicone white/PTFE beige, with closed cap	3.2	45° shore A	10 x 100	SCCSEP24-04EPAC

### PP Screw Seals 24mm, white, with septa (assembled)

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone white/PTFE beige, centre hole cap	3.2	45° shore A	10 x 100	SCCSEP24-04
Silicone white/PTFE beige, closed top cap	3.2	45° shore A	10 x 100	SCCSEP24-04C
Butyl red/PTFE grey, centre hole cap	2.5	55° shore A	10 x 100	SCCSEP24-02
Butyl red/PTFE grey, closed top cap	2.5	55° shore A	10 x 100	SCCSEP24-02C

### PP Screw Caps 24mm, without septa

Description	Thickness (mm)	Material	Pack Size	Part No.
White, centre hole	-	PP	10 x 100	SCC24-0
White, closed top	-	PP	10 x 100	SCC24-C



**Septa for Screw Caps 24mm**

Description	Thickness (mm)	Hardness	Pack Size	Part No.
Silicone natural/PTFE beige (EPA Quality)	3.2	45° shore A	1000	SEP22-04EPA
Butyl red/PTFE grey	2.5	55° shore A	1000	SEP22-09
Silicone white/PTFE blue, cross-slitted	1.5	55° shore A	1000	SEP22-04S

**Pre-assembled Vial and Closure Combinations**

Description	Pack Size	Part No.
EPA Screw Neck Vial 24mm, 40ml (95 x 28mm), with cap (Vial: EPA40C, sealed with SCCSEP24-04)	1000	EPA40C-PRO
EPA Screw Neck Vial 24mm, 40ml (95 x 28mm), amber, with cap (Vial: EPA40A, sealed with SCCSEP24-04)	1000	EPA40A-PRO
EPA Screw Neck Vial 24mm, 60ml (140 x 28mm) with cap (Vial: EPA60C, sealed with SCCSEP24-04)	1000	EPA60C-PRO

**Crimping Tools**

Due to the variety of crimp neck designs and septa thicknesses, it is important for crimping tools to offer adjustable crimping pressure and crimping height. The 11, 13 and 20mm crimping tools come complete with a hexagon key which enables adjustment of the pressure block in the crimping head. To adjust the crimping height, turn the hexagon screw to the right moving the crimping head down which produces a looser crimp. Turning the hexagon screw to the left produces a firmer crimp. The crimping can also be adjusted by the screw in the handle. All crimping tools are manufactured with a chemical resistant surface finish and alloy crimping jaws.

**Manual Crimping Tools**

Description	Pack Size	Part No.
Crimper for 8mm Crimp Caps	EACH	CRT-08
Crimper for 11mm Crimp Caps	EACH	CRT-11
Crimper for 13mm Crimp Caps	EACH	CRT-13
Crimper for 20mm Crimp Caps	EACH	CRT-20
Crimper for 32mm Crimp Caps	EACH	CRT-32
Decapper for 8mm Crimp Caps	EACH	DCT-08
Decapper for 11mm Crimp Caps	EACH	DCT-11
Decapper for 13mm Crimp Caps	EACH	DCT-13
Decapper for 20mm Crimp Caps	EACH	DCT-20
Decapper for 32mm Crimp Caps	EACH	DCT-32

## Screw Neck Vials for Sample Storage

### Screw Neck Vials and Seals for Sample Storage

Vials/Closed Top Screw Caps	Volume (ml)/ Thickness (mm)	Dimension (mm)/° Shore A	Pack Size	Part No.
Clear glass	2.0ml	32 x 11.6	10 x 10	SCV12-01
Amber glass	2.0ml	32 x 11.6	10 x 10	SCV12-01A
Butyl red/PTFE grey, in closed top cap (8mm), black	1.3mm	55° shore A	10 x 100	SCC08-09C
As above (Natural Rubber red-orange/TEF, transparent)	1.3mm	60° shore A	10 x 100	SCC08-02C
As above (Silicone white/PTFE red)	1.3mm	45° shore A	10 x 100	SCC08-04C
Clear glass	4.0ml	45 x 14.7	10 x 100	SCV15-01
Amber glass	4.0ml	45 x 14.7	10 x 100	SCV15-01A
Butyl red/PTFE grey, in closed top cap (13mm), black	1.3mm	55° shore A	10 x 100	SCC13425-02
As above (Natural Rubber red-orange/TEF, transparent)	1.3mm	60° shore A	10 x 100	SCC13425-09
As above (Silicone white/PTFE red)	1.5mm	55° shore A	10 x 100	SCC13425-04
Clear glass	8.0ml	61 x 16.6	10 x 100	SAV08-01
Amber glass	8.0ml	61 x 16.6	10 x 100	SAV08-01A
Clear glass	12ml	66 x 18.5	10 x 100	SAV12-01
Amber glass	12ml	66 x 18.5	10 x 100	SAV12-01A
Butyl red/PTFE grey, in closed top cap (15mm), black	1.6mm	55° shore A	10 x 100	SCC15425-01
As above (Natural Rubber red-orange/TEF, transparent)	1.3mm	60° shore A	10 x 100	SCC15425-02
As above (Silicone white/PTFE red)	1.3mm	45° shore A	10 x 100	SCC15425-04
Clear glass	16ml	71 x 20.6	10 x 100	SAV16-01
Butyl red/PTFE grey, in closed top cap (18mm), black	1.3mm	55° shore A	10 x 100	SCCSEP18-09C
As above (Silicone white/PTFE red)	1.3mm	45° shore A	10 x 100	SCCSEP18-04C
As above (Silicone blue transparent/PTFE white)	1.7mm	45° shore A	10 x 100	SCCSEP18-04BC
Clear glass	20ml	86 x 22.7	10 x 100	SAV20-03
Butyl red/PTFE grey, in closed top cap (18mm), black	1.3mm	55° shore A	10 x 100	SCC20400-09C
As above (Natural Rubber red-orange/TEF, transparent)	1.3mm	60° shore A	10 x 100	SCC20400-02C
As above (Silicone white/PTFE red)	1.3mm	45° shore A	10 x 100	SCC20400-04C
Clear glass	20ml	57 x 27.5	10 x 100	EPA20C
Amber glass	20ml	57 x 27.5	10 x 100	EPA20A
Clear glass	30ml	72.5 x 27.5	10 x 100	EPA30C
Amber glass	30ml	72.5 x 27.5	10 x 100	EPA30A
Clear glass	40ml	95 x 27.5	10 x 100	EPA40C
Amber glass	40ml	95 x 27.5	10 x 100	EPA40A
Clear glass	60ml	140 x 27.5	10 x 100	EPA60C
Amber glass	60ml	140 x 27.5	10 x 100	EPA60A
Butyl red/PTFE grey, in closed top cap (24mm), white	2.5mm	55° shore A	10 x 100	SCCSEP24-02C
As above (Silicone natural/PTFE beige)	3.2mm	45° shore A	10 x 100	SCCSEP24-04C

- For easy storage of powder samples
- Easy to seal and to reopen
- Inexpensive
- 3<sup>rd</sup> Hydrolytic class glass with different sample volumes
- Caps and vials can be obtained separately



SNV18-05

5ml Snap Cap Vial 18mm, 40 x 20mm, clear glass, 3<sup>rd</sup> hydrolytic class



SNV18-10

10ml Snap Cap Vial 18mm, 50 x 22mm, clear glass, 3<sup>rd</sup> hydrolytic class



SNV22-15

15ml Snap Cap Vial 22mm, 48 x 26mm, clear glass, 3<sup>rd</sup> hydrolytic class



SNV22-25

25ml Snap Cap Vial 22mm, 65 x 26mm, clear glass, 3<sup>rd</sup> hydrolytic class



SNC18-06

18mm PE Snap Cap, 19.8 x 5.2mm, transparent, closed top

10 x 100 pieces



SNC18-06

18mm PE Snap Cap, 19.8 x 5.2mm, transparent, closed top

10 x 100 pieces



SNC22-06

22mm PE Snap Cap, 23.5 x 5.5mm, transparent, closed top

10 x 100 pieces



SNC22-06

22mm PE Snap Cap, 23.5 x 5.5mm, transparent, closed top

10 x 100 pieces

# Cross Reference Kinesis - Agilent

Agilent No.	Kinesis No.	Page	Agilent No.	Kinesis No.	Page	Agilent No.	Kinesis No.	Page
5061-3349 (alt.)	VR08-50	1	5182-0716 (100)	STV12-02LA	5	5183-4436/100	SEP08-03	4
5061-3370 (alt.)/500	CRC11-02A	3	5183-2069 (1000)	STV12-02LA	5	5183-4437/100	SEP08-04	4
5065-4402	DWB96-02	*	5182-0717	SCC09-02BA	6	5183-4438/100	SCC08-B	4
5180-0806	CRV08-01A	1	5182-0718	SCC09-02GA	6	5183-4442/100	SCCSEP08-04	4
5180-0841/500	CRV08-05	1	5182-0719 (alt.)	SCC09-02R	6	5183-4448 (100)	SCV15-01	12, 22
5180-0844/500	CRV08-06	1	5182-0720/100	SCC09-04B	6	5183-4452 (500)	SCV15-01	12, 22
5181-1210 (alt.)/100	CRC11-02	3	5185-5863/500	SCC09-04B	6	5183-4450 (100)	SCV15-01A	12, 22
5183-4498 (alt./1000	CRC11-02	3	5182-0721/100	SCC09-04G	6	5183-4453 (500)	SCV15-01A	12, 22
5061-3370 (alt.)/500	CRC11-02	3	5182-0722	SCC09-04R	6	5183-4458	SV4PC15-01	13
5181-1211 (100)	CRC11-03	3	5182-0723/100	SCC09-03B	6	5183-4459/1000	SEP13-01	12
5183-4499 (1000)	CRC11-03	3	5185-5862/500	SCC09-03B	6	5183-4460/100	SEP13-04	12
5181-1212/100	CRC11-07	*	5182-0724/100	SCC09-03G	*	5183-4461/100	SCC13-B	12
5181-1213	DCT-11	2, 21	5185-5861/500	SCC09-03G	*	5183-4462	SCC13-W	*
5181-1214	DCT-20	19, 21	5182-0725	SCC09-03R	6	5183-4464/100	SCCSEP13-04	12
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5181-1216 (alt.)/100	CRC11-02G	3	5182-0734 (alt.)/500	KSP-STV-04	7	5183-4471**	SV1PC08-01	13
5181-1217 (alt.)/100	CRC11-02R	3	5182-0736 (alt.)/500	KSP-STV-03	7	5183-4472	SV1PC08-03A	13
5181-1270/100	INWC-01SP	2	5182-0837 (alt.)	CRV20-01H	14	5183-4472 **	SV1PC08-01A	13
5181-3375 (100)	CRV12-02	2	5182-0838 (alt.)	CRV10-01	14	5183-4474	CRV20-01	14
5183-4491 (1000)	CRV12-02	2	5182-0867 (alt.)/500	KSP-STVL-02	7	5183-4474 (alt.)	CRV20-01C	14, 18
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5183-4493 (1000)	CRV12-02LA	2	5182-0869 (alt.)/500	KSP-STVL-03	7	5183-4476	SEP20-02IS	16
5181-3377/500	INWF-01	2	5182-0871/100	CRC11-01	3	5183-4477	CRC20-04A	15
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5181-8801 (alt.)/500	KSP-CRVLA-02	3	5182-3454 (alt.)	CRV12-07	2	5183-4479	CRC20-02PH	15
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5182-0541/100	SNC11-04BS	11	5182-3458 (alt.)/100	SNC11-02BSA	11	5183-4484	CRV08-04	1
5182-0542 (alt.)/100	SNC11-06B	3	5182-3459 (alt.)/100	SNC11-02R	11	5183-4485	CRV08-04A	1
5182-0540 (alt.)/100	SNC11-06B	3	5183-2030	STV12-10	5	5183-4486	CRV08-03	1
5181-1507 (alt.)/100	SNC11-06B	3	5183-2070	STV12-02S	5	5183-4487	CRV08-03A	1
5181-1513 (alt.)/500	SNC11-06B	3	5183-2071 (alt.)	STV12-02S	5	5183-4489	CRC08-02	1
5182-0543 (100)	CRV12-02L	2	5183-2072	STV12-02LAS	5	5183-4490	CRC08-03	1
5183-4492 (1000)	CRV12-02L	2	5183-2075	STV12-02LAS	5	5183-4511/100	SNC11-07S	11
5182-0544 (100)	SNV12-02	10	5183-2076/100	SCC09-04BS	6	5183-4524	EPA40C	20, 22
5183-4504 (1000)	SNV12-02	10	5185-5865/500	SCC09-04BS	6	5183-4743 (alt.)/72	SEP22-04EPA	21
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5183-4506 (1000)	SNV12-02LA	10	5183-2077	SCC09-04S	6	5185-5823	SCC09-04W	6
5182-0546 (100)	SNV12-02L	10	5183-2078	SCC09-04S	6	5185-5824	SCC09-04WS	6
5183-4505 (1000)	SNV12-02L	10	5183-2078	SCC09-04RS	6	5185-5838 (alt.)	SCC09-02BK	*
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5182-0548 (alt.)/500	KSP-SNVLA-02	11	5183-2080 (alt.)/500	KSP-STVL-04S	7	5188-2759	SCCSEP18-04BM	17
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5182-0564 (alt.)/500	SNC11-02	11	5183-2085/100	INWC-02	2	5188-5322/1000	DWC96-01	*
5182-0550 (alt.)/100	SNC11-02	11	5183-2088/100	INSC-01SP	4	5188-5386/100	CRC11-04M	3
5182-0564 (alt.)/500	SNC11-02	11	5183-2089/100	INSC-01	4	5188-5390/100	STV12-03TS	5
5182-3458/100	SNC11-02	11	5183-2090/100	INSF-01	4	5188-5392	SCV10-01	17
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5182-0564 (alt.)/500	SNC11-02S	11	5183-2094	INC48-01	12	8710-1643	CRT-08	1, 21
5182-0552 (100)	CRC11-04	3	5183-2095	SPR13-01	12	9301-0719	SEP20-04	16
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5182-0553/100	CRC11-04	3	5183-4428 (100)	SCV12-01	4	9301-0721/100	CRC20-0P	15
5182-0566/100	SNC11-03S	11	5183-4430 (1000)	SCV12-01	4	9301-0722 (alt.)	VR12-50	2, 6, 9
5182-0567 (alt.)	SNV12-04P	8	5183-4429 (100)	SCV12-01A	4	9301-0976	SEP20-02PH	16
5182-0714 (100)	STV12-02	5	5183-4431 (1000)	SCV12-01A	4	9301-0977/100	SNV12-03TS	10
5183-2067 (1000)	STV12-02	5	5183-4434	SEP08-01	4	9301-0978/1000	CRV12-03P	10
5182-0715 (100)	STV12-02L	5	5183-4435	SEP08-04S	4	5188-2788/100	CRV12-03P	10
5183-2068 (1000)	STV12-02L	5				5184-3557/1000	CRV12-03P	10
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\*please contact Kinesis for details

\*\*only to be used in conjunction with inserts

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186000274	SCC09-04W	6
186000303	SNC11-04B	11
186000304	SNC11-04S	11
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186002626	STV12-03P	5
186002627	SNV12-04P	8
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186000305 (alt.)	SCC09-04BS	6
186000328 (alt.)	SNC11-06B	3
186002645 (alt.)	SNC11-06B	3
186002646 (alt.)	SNC11-06B	3
186000841/100 (alt.)	SCCSEP13-04	12
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186002127 (alt.)	SCC09-04GS	6
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186002129 (alt.)	SCC09-04R	6
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186002456 (alt.)	SCC09-04	6
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200000114 (24 pos.)	VR12-50	2, 6, 9
600000668CV	KSP-STVL-04S	7
600000669CV	KSP-STVLA-04S	7
600000751C	KSP-STVL-04	7
600000752C	KSP-STVLA-04	7
PSL400123	CRV50-01	14
PSL403682	CRV50-01	14
PSL403803	CRV08-06	1
PSL403805	INSC-005	4
PSL403810 (alt.)	INSC-01	4
PSL403814 (alt.) (with spring)	INSC-01	4
PSL403810 (alt.)	INSC-02	4
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PSL408137	SPR08-01	4
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600000162	SCC13-B	12
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WAT094171 (alt.)	INWC-01SP	2
WAT094170DV	INWC-01SPZ	2
WAT094171DV (alt.)	INWC-01SPZ	2
WAT094174	SCCSEP08-04	4
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WAT094220	SNV12-02LA	10
WAT094222	CRV12-02	2
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\*please contact Kinesis for details  
 \*\*only to be used in conjunction with inserts

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# K<sub>x</sub> EPA vials

**New!**

- 20, 40 and 60ml EPA (VOA) vials
- Clear or amber type 1 borosilicate glass
- Screw caps with bonded septa
- SURE-Clean multi-purpose cap



## Screw top vials, EPA (VOA)

Part No.	Description	Qty PK
VEPA20	20ml EPA vial, clear	10 x 100
VEPA20-A	20ml EPA vial, amber	10 x 100
VEPA40	40ml EPA vial, clear	10 x 100
VEPA40-A	40ml EPA vial, amber	10 x 100
VEPA60	60ml EPA vial, clear	10 x 100
VEPA60-A	60ml EPA vial, amber	10 x 100

## Screw caps, EPA (VOA)

Part No.	Description	Qty PK
CS24-04	24mm Screw Cap, Open; Silicone/PTFE bonded Septa, EPA	10 x 100
CS24-04C	24mm Screw Cap, Closed; Silicone/PTFE bonded Septa, EPA	10 x 100
CS24-04DC	24mm Screw Cap, SURE-Clean, Open w/ Dust Cover; Silicone/PTFE bonded Septa, EPA Quality	10 x 100



VEPA40



VEPA40-A



CS24-04C



CS24-04



CS24-04DC

# ***Kinesis SureStop™ 9mm Short Thread Autosampler Vials***

**SureStop feature facilitates trouble-free autosampler operation and confidence in analytical results**

- **SureStop positioning and optimum vial geometry provides trouble-free autosampler operation**
- **No more over tightening/deforming septa**
- **Extend autosampler needle lifetime**
- **Full confidence in results with no sample evaporation**
- **Full range of caps and septa**



**Kinesis SureStop 9mm Short Thread Autosampler Vials** have been designed with an over-wind barrier, preventing the cap/septa from being over tightened. This ensures the septa is not deformed, minimising damage of autosampler needles and preventing sample evaporation due to poor vial-septa-cap sealing.

The SureStop Vials are fully compatible with all Kinesis Short Thread Caps and Septa, offering the full range of cleanliness and septa injection options.

Kinesis SureStop Vials are available in clear, clear with label and filling lines and amber with label and filling lines.

## Optimum Vial-Septa-Cap Sealing - minimal analyte/solvent loss

Solvent loss (methanol) at 40°C for 24 hours was investigated, comparing the Kinesis SureStop Vial with two commercially available standard 9mm short thread vial products.

As shown in *Figure 1*, analysing 50 vials from two commercially available sources, and comparing with the Kinesis SureStop Vial, shows loss of methanol that would potentially impact reported results. The Kinesis SureStop Vial showed little or no solvent loss throughout the test period with either optimal or over tightening.

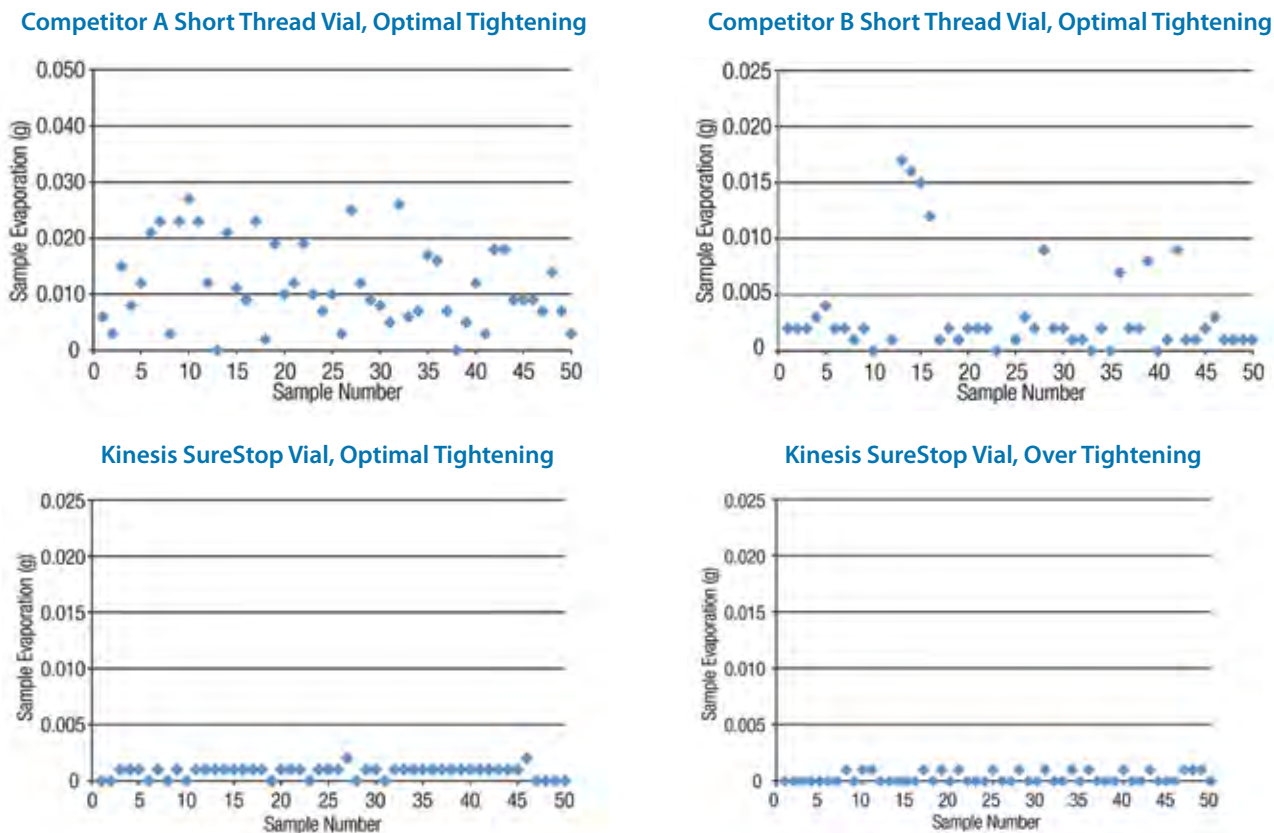


Figure 1

\*Note y-axis scale differences for full impact of SureStop sealing

## Ordering Information

The following table provides details of the Kinesis SureStop Vials and short thread caps and septa.

Part Number	Description	Pack Size
<b>Vials</b>		
STV12-02-SS	SureStop Short Thread Vial 9mm, 2ml	1000
STV12-02L-SS	SureStop Short Thread Vial 9mm, 2ml, Label	1000
STV12-02LA-SS	SureStop Short Thread Vial 9mm, 2ml, Amber, Label	1000
<b>Caps &amp; Septa</b>		
SCC09-02A	Short Thread Cap, Clear, Red Rubber/PTFE Septa	1000
SCC09-02B	Short Thread Cap, Blue, Red Rubber/PTFE Septa	1000
SCC09-02BA	Short Thread Cap, Blue, Red Rubber/PTFE Septa (Agilent)	1000
SCC09-04	Short Thread Cap, Clear, Silicone/Red PTFE Septa	1000
SCC09-04B	Short Thread Cap, Blue, Silicone/Red PTFE Septa	1000
SCC09-04BS	Short Thread Cap, Blue, Silicone/Red PTFE Septa w/slit	1000
CS09B-04US	Short Thread Cap, Blue, Silicone/Red PTFE Septa, Ultrabond w/slit	1000

Additional short thread caps and septa are available on request.

KLTD-1571-1115



Kinesis recognise all trademarks and registered trademarks. E&OE



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# KX Microwave Reaction Vials

- 0.5-2, 2-5 and 10-20ml volume options
- Rated to a working pressure of 30bar (3MPa / 435psi)<sup>1,3</sup>
- Temperature operating range of 40-300°C<sup>2,3</sup>
- Manufactured from contamination free 1<sup>st</sup> class hydrolytic borosilicate glass
- Re-sealable septa for multiple reagent additions and reaction monitoring
- Alternative reaction vial in an oil bath or on a hot plate<sup>4</sup>

## Introduction

The use of microwaves is a common approach to decreasing reaction times in organic synthesis. In particular, reactions times using Pd, Pt or other metal catalysts can be reduced significantly. Using vials optimised for such conditions allows reactions to be performed at temperatures above the boiling point of the solvent used – this cannot be performed using standard reaction devices, e.g. under reflux.

## Quality

KX Microwave Reaction Vials from Kinesis are the high quality cost effective alternative for use with compatible systems. KX Microwave Reaction Vials can be used at temperatures of up to 300°C<sup>2</sup> and a working pressure of up to 30bar (even over extended reaction times).

All KX Microwave Reaction Vials are manufactured from high quality glass which does not contaminate reaction mixtures.



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 **Kinesis**  
Scientific Experts

# KX Microwave Reaction Vials

## Re-sealable Silicone/PTFE Crimp Caps

The use of re-sealable silicone/PTFE septa allows the multiple addition of reagents and sampling to monitor reaction progress (whilst maintaining sealed reaction conditions). All KX Microwave Reaction Vials are supplied with 20mm crimp caps; additional crimp caps are available in a cost effective pk/1000.

## Stirrer Bars

Kinesis offer stirrer bars for all KX Microwave Reaction Vials. The PTFE coated stirrer bars ensure a homogeneous reaction mixture, ensuring reactions are driven to completion in the minimum time.

## Samples

Samples of all KX Microwave Reaction Vials are readily available. Please contact your local Kinesis Office (details can be found below).

## Crimping and Decapping Options

Kinesis offers tools for crimping and decapping KX Microwave Reaction Vials. The crimping tool is fully compatible with KX Microwave Reaction Vials, providing securely crimped vials.



Part Number	Description	Pack Size
<b>Vials and Caps</b>		
VMW02-C-100	KX Microwave Reaction Vials, 0.5 – 2ml with cap	100
VMW05-C-100	KX Microwave Reaction Vials, 2 – 5ml with cap	100
VMW20-C-50	KX Microwave Reaction Vials, 10 – 20ml with cap	50
CMW20-04B	Silicone/PTFE Crimp Caps, 20mm	1000
CMW20-04B-100	Silicone/PTFE Crimp Caps, 20mm	100
<b>Stirrer Bars</b>		
SB-02	PTFE Stirrer Bar for 0.5 – 2ml Vial	25
SB-05	PTFE Stirrer Bar for 2 – 5ml Vial	25
SB-20	PTFE Stirrer Bar for 10 – 20ml Vial	5
<b>Crimper and Decapper</b>		
CRT-20	Crimping Tool (20mm)	EACH
DCT-20	Decapper Tool (20mm)	EACH

<sup>1</sup> Pressure range is 0-20 bar for the 10-20ml vial

<sup>2</sup> Temperature range is 40-250°C for the 10-20ml vial

<sup>3</sup> Used with suitable hardware

<sup>4</sup> Used under controlled conditions

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