



POSTNOVA

Leading in FFF

Vials & Closures *Catalogue*

Postnova

Analytics GmbH

Rankinestrasse 1
86899 Landsberg a. Lech

Phone: 08191-985688-0
Fax: 08191-985688-99

info@postnova.com
www.postnova.com



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Vials

In order to visualize the most important characteristics that differentiate the different types of vials, we show below some pictures helping you to identify a vial:

Design of the Neck



Short Thread ND9
(Thread ends in the middle of the neck, so that there is still some space between the edge of the cap and shoulder of the vial for robotic arms)



Standard Screw Neck
(Threads run down to the shoulder of the vial)



Snap Ring Neck
(can be used with Snap Ring Caps ND11 or Crimp Caps ND11)



Precision Thread ND18
for Headspace and SPME



HS Crimp Neck
(Bevelled Top Headspace Crimp Neck)



DIN Crimp Neck
(flat Crimp Neck)



Fire-Polished Neck
(Shell Vials)



Snap Cap Neck
(Sample storage containers, no autosampler vials)



Special Neck
for SPME Vial
(thicker Crimp Neck)

Design of the Bottom



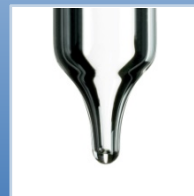
flat bottom



rounded bottom
(HS-bottom)



round bottom



conical bottom



solid glass bottom
of a Microliter-Vial
with inner cone

Glass

As far as nothing else is indicated, in general all clear and amber glass vials are made out of 1st hydrolytic class glass.

Seals

Different closure techniques and / or application requirements necessitate certain caps. In order to visualize the different types of caps, please see the pictures below:



Screw Caps
(open top / closed top)



Short Thread Caps
(open top / closed top)



Snap Ring Caps
(only as open top)



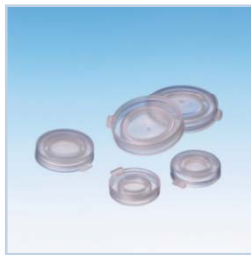
Magnetic Short Thread Cap
(only as open top)



Various UltraBond Seals ND9 and ND24



PE-Plugs
(for Shell Vials;
Micro-Inserts can be
installed in the plug)



Snap Caps
(for sample storage
containers)



**PE Push-On
Caps ND8 and ND11**



PE Caps
(for Crimp Necks ND8,
ND11 and ND20)



Aluminium Caps
(centre hole)



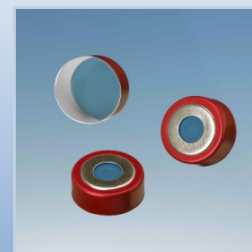
**Magnetic
Crimp Caps**
(5mm centre hole)



**Magnetic
Crimp Caps**
(8mm centre hole)



Magnetic Screw Caps
(8mm centre hole / closed top)



**Magnetic Bimetal
Crimp Caps**
(8mm centre hole)



Headspace Caps
(Pressure Release Caps)



Centre Tear Off Caps



Complete Tear Off Caps



Crimp Caps
(with roll groove)

Septa

The right choice of septa depends on the application. Almost all septa are laminated on one side with PTFE, which has a high chemical resistance and forms an inert barrier between sample and carrier material of the septa. The carrier materials have different physical and chemical properties, such as temperature resistance, resealability properties, cleanliness, hardness, thickness, etc.

The individual conditions of an application require specific characteristics of the carrier material, e.g.							
Multiple Injection?	Temperature?			Thin, fragile needle?	Blunt, Thick needle?	Critical analysis?	Low coring?
↓ good resealability properties necessary	- 40°C up to 120°C	- 40°C up to 110°C	- 60°C up to 200°C	↓ soft and thin septa required	↓ slitted / pre-cut liner as penetration aid (HPLC)	↓ very clean liner required	↓ both sided PTFE laminated liners required
↓ Natural Rubber / TEF	↓ Natural Rubber / TEF; Butyl / PTFE	↓ RedRubber / PTFE	↓ Silicone / PTFE	↓ e.g. Silicone / PTFE	↓ e.g. 08 02 0039 (Page 21, Chapter 2.4)	↓ UltraClean Silicone / PTFE Septa	↓ PTFE / Silicone / PTFE; PTFE /Butyl/ PTFE

In order to visualize the most common septa on the market, please see pictures below. Please notice that colours of the liners are no exact indication for the identification of a liner material.



Natural Rubber/TEF



RedRubber/PTFE



Butyl



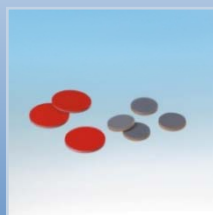
Butyl/PTFE



Pharma-Fix-Septa (Butyl/PTFE)



Silicone/Aluminium foil silver



PTFE/Silicone/PTFE
PTFE/Butyl/PTFE



Silicone/PTFE



Pre-cut liners



Viton



PTFE



Septa for Schott Screw Caps



PTFE/EPDM/PTFE

Analytical & Preparative Vials



For
Postnova
Field-Flow Fractionation (FFF)
Systems

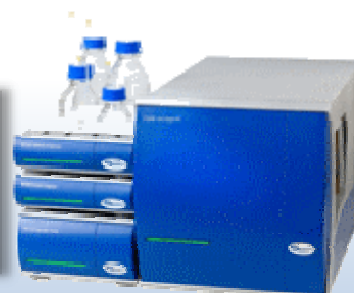
Analytical Vials & Closures
Compatible with
AF2000 (Focus, AT, MT, MultiFlow),
CF2000 and TF2000 Series



Ordering information of the suitable consumables

Postnova item no.	Description
Z-VIA-11090500	1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1st hydrolytic class, wide opening
Z-VIA-09150868	9mm Combination Seal: PP Short Thread Cap, blue, centre hole; PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm

Preparative Vials & Closures
Compatible with
AF2000 (Focus, AT, MT, MultiFlow),
CF2000 and TF2000 Series



Ordering information of the suitable consumables

Postnova item no.	Description
Z-VIA-18091306	10ml Precision Thread Headspace-Vial, 46 x 22.5mm, clear glass, 1st hydrolytic class, rounded bottom (for MAGNETIC screw caps)
Z-VIA-18031309	UltraClean Closure: 18mm Magnetic Universal Screw Cap, silver, centre hole; Silicone transparent blue/PTFE white, 45° shore A, 1.3mm



Analytical Vials & Closures For PN8050
Compatible with
AF2000 (Focus, AT, MT, MultiFlow),
CF2000 and TF2000 Series

Ordering information of the suitable consumables

Postnova item no.	Description
Z-VIA-11090500	1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1st hydrolytic class, wide opening
Z-VIA-09151669	9mm Combination Seal: PP Short Thread Cap, black, centre hole; Silicone white/PTFE blue, 55° shore A, 1.0mm, slitted



Further consumables for autosamplers are available upon request!

Consumables for Postnova Field-Flow Fractionation (FFF) Systems

Analytical & Preparative Vials



For
Postnova
Field-Flow Fractionation (FFF)
Systems

Analytical Vials & Closures Compatible with Postnova FFF Systems: AF2000HT



Ordering information of the suitable consumables

Postnova item no.	Description
Z-VIA-11090356	1.5ml Crimp Neck Vial, 32 x 11.6mm, clear glass, 1st hydrolytic class, wide opening
Z-VIA-11030339	11mm Combination Seal: Aluminium Cap, clear lacquered, centre hole, with roll groove; PTFE virginal, 53° shore D, 0.25mm
Z-VIA-11060006	11mm Crimper
Z-VIA-11070002	11mm Decapper



Preparative Vials & Closures Compatible with Postnova FFF Systems: AF2000HT

Ordering information of the suitable consumables

Postnova item no.	Description
Z-VIA-20090796	20ml Headspace-Vial, 75,5 x 22.5mm, clear glass, 1st hydrolytic class, DIN Crimp Neck, long neck, flat bottom
Z-VIA-20030142	UltraClean Closure: 20mm Aluminium Cap, plain, centre hole; Silicone transparent blue/PTFE white, 45° shore A, 3.0mm
Z-VIA-20060008	20mm Crimper
Z-VIA-20070004	20mm Decapper



Further vials and closures, crimping tools and other chromatography consumables for autosamplers are available upon request!

Consumables for Postnova Field-Flow Fractionation (FFF) Systems

1. Crimp Neck Vials and Aluminium Crimp Seals ND8

Crimp Neck Vials ND8

The vials are preferentially used on instruments of the following manufacturers: Agilent, Beckman, Carlo Erba, CTC, Fisons, Perkin Elmer, Shimadzu, Thermo, VWR (Merck®)/Hitachi, etc.



Z-VIA-08060005: 8mm Crimper

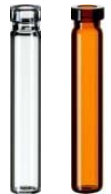


Z-VIA-08070001: 8mm Decapper

Art. No.	Description	PU
Z-VIA-08090284	0,8ml clear glass, flat bottom, 30 x 8.2mm	100
Z-VIA-08090405	0,7ml clear glass, flat bottom, 40 x 7mm	100
Z-VIA-08090406	0,7ml amber glass, flat bottom, 40 x 7mm	100
Z-VIA-08090276	0,3ml clear glass, round bottom, 31.5 x 5.5mm	100
Z-VIA-08090606	0,3ml clear glass, conical, 31.5 x 5.5mm	100
Z-VIA-08090845	1,2ml clear glass, flat bottom, 40 x 8.2mm	100
Z-VIA-08090953	1,2ml amber glass, flat bottom, 40 x 8.2mm	100
Z-VIA-08090305	0,7ml clear glass, conical, 40 x 7mm	100
Z-VIA-08090258	0,7ml amber glass, conical, 40 x 7mm	100
Z-VIA-08091080	0,4ml amber glass, conical, 30 x 7mm	100



Z-VIA-08090284



Z-VIA-08090405/08090406



Z-VIA-08090276/08090606



Z-VIA-08090845/08090953

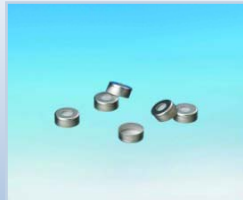


Z-VIA-08090305/08090258



Z-VIA-08091080

Aluminium Crimp Seals ND8, 4mm hole, with assembled septa



Art. No.	Description	PU
Z-VIA-08030451	Natural Rubber red-orange/TEF transparent, 1.0mm, 60o shore A Agilent Quality	100
Z-VIA-08031935	Natural Rubber red-orange / TEF transparent, 1.0mm, 60o shore A	100
Z-VIA-08032042	RedRubber/PTFE beige, 1.0mm, 45o shore A	100
Z-VIA-08030249	Silicone white/PTFE red, 1.3mm, 45o shore A	100
Z-VIA-08030113	PTFE red/Silicone white/PTFE red, 1.0mm, 45o shore A	100
Z-VIA-08031156	Silicone white/PTFE red, slitted, 1.3mm, 45o shore A	100
Z-VIA-08030268	PTFE virginal, 0.25mm, 53o shore D	100

Other Combination Seals for Crimp Neck Vials ND8



Art. No.	Description	PU
Z-VIA-08081675	PE Push-On Cap, blue, with thinned penetration point	100
Z-VIA-09150753	PE-Cap, transparent, 9 x 5.9mm, 4mm hole; Natural Rubber red-orange/TEF transparent, 1.0mm, 60o shore A	100
Z-VIA-09150756	PE-Cap, transparent, 9 x 5.9mm, 4mm hole; Silicone white/PTFE red, 1.3mm, 45o shore A	100

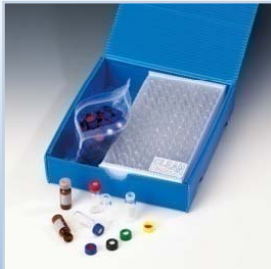
2. Crimp Neck Vials and Aluminium Crimp Seals ND11

Crimp Neck Vials ND11, with wide opening

The vials are preferentially used on instruments of the following manufacturers: Agilent, Carlo Erba, CTC, Dani, Fisons, Gerstel, Jasco, Perkin Elmer, Shimadzu, Spark, Thermo, Varian, etc.



upon request
Vials and Seals
are also
available as 2in1
KIT



Art. No	Description	PU
Z-VIA-11090356 Z-VIA-11092085	1.5ml, clear glass, Crimp Neck ND11, 32 x 11.6mm SILANIZED	100
Z-VIA-11090476	1.5ml, clear glass, Crimp Neck ND11, with label and filling lines, 32 x 11.6mm	100
Z-VIA-11090477 Z-VIA-11091767	1.5ml, amber glass, Crimp Neck ND11, with label and filling lines, 32 x 11.6mm SILANIZED	100
Z-VIA-11090619 Z-VIA-11092177	1.1ml, Microliter-Vial, clear glass, Crimp Neck ND11, with 15µl inner cone, 32 x 11.6mm SILANIZED	100
Z-VIA-11090921	Crimp Neck Vial, clear glass, with label and filling lines, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass	100
Z-VIA-11091956	Crimp Neck Vial, amber glass, with label and filling lines, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass	100
Z-VIA-11141190 Z-VIA-11141266	TopSert: TPX Snap Ring Vial, clear, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass SILANIZED Micro-Insert	100
Z-VIA-11141655 Z-VIA-11141656	TopSert: TPX Snap Ring Vial, amber, 32 x 11.6mm, with integrated 0.2ml Glass Micro-Insert, clear glass SILANIZED Micro-Insert	100
Z-VIA-11090415	1.1ml, Micro-Vial, clear glass, Crimp Neck ND11, 32 x 11.6mm, conical	100



Z-VIA-11090356



Z-VIA-11090476



Z-VIA-11090477



Z-VIA-11090619



Z-VIA-11090921



Z-VIA-11141190



Z-VIA-11090415

Micro-Inserts for Crimp Neck Vials ND11, with wide opening



Z-VIA-11060006: 11mm Crimper

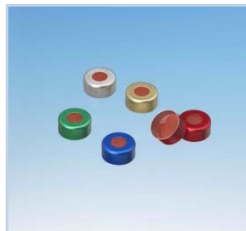


Z-VIA-11070002: 11mm Decapper

Art. No.	Description	PU
Z-VIA-06090357 Z-VIA-06091240	0.1ml, clear glass, conical, 15mm top, 31 x 6mm SILANIZED	100
Z-VIA-06090669	0.1ml, clear glass, conical, 12mm top, 31 x 6mm	100
Z-VIA-06090865 Z-VIA-06091343	0.1ml, clear glass, conical, with assembled plastic spring, 29 x 5.7mm SILANIZED	100
Z-VIA-06090866	0.1ml, clear glass, flat bottom, 31 x 6mm	100
Z-VIA-06192240	0.1ml, polypropylene, clear, conical, with filling lines, 10mm top, 29 x 6mm	100
Z-VIA-06192241	0.1ml, polypropylene, clear, conical, with filling lines and assembled plastic spring, 10mm top, 29 x 6mm	100
Z-VIA-06192242	0.1ml, polypropylene, clear, flat bottom, 31 x 6mm	100

2. Crimp Neck Vials and Aluminium Seals ND11

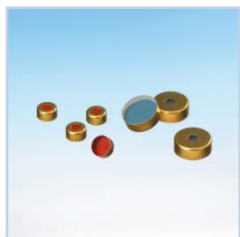
Aluminium Crimp Seals ND11, 5.5 mm hole, with assembled septa



Seals are also available with **green, red, blue** and **golden** Caps

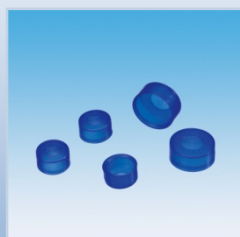
Art. No.	Description	PU
Z-VIA-11030209	Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A <i>Agilent Quality</i>	100
Z-VIA-11031875	RedRubber/PTFE beige, 1.0mm, 45° shore A	100
Z-VIA-11030300	Natural Rubber red-orange/Butyl red/TEF transparent, 1.0mm, 45° shore A	100
Z-VIA-11030900	Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-11030247	Silicone white/PTFE red, 1.3mm, 45° shore A	100
Z-VIA-11030196	PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100
Z-VIA-11030464	Silicone white/PTFE blue, cross-slitted, 1.5mm, 55° shore A	100
Z-VIA-11030339	PTFE virginal, 0.25mm, 53° shore D	100

Magnetic Crimp Seals ND11, 5mm hole, for CTC PAL and Thermo Scientific TriPlus Autosampler



Art. No.	Description	PU
Z-VIA-11030319	Silicone white/PTFE red, 1.3mm, 45° shore A	100
Z-VIA-11030332	PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A,	100

Other Combination Seals for Crimp Neck ND11



Art. No.	Description	PU
Z-VIA-11081676	PE Push-On Cap, blue, with thinned penetration point	100
Z-VIA-13150553	PE-Cap, transparent, 13 x 7.5mm, 4.5mm hole; Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A	100
Z-VIA-13150996	PE-Cap, transparent, 13 x 7.5mm, 4.5mm hole; Silicone white/PTFE red, 1.3mm, 45° shore A	100

Septa for Aluminium Crimp Caps ND11



Art. No.	Description	PU
Z-VIA-11020534	11mm Septa, Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A	100
Z-VIA-11021876	11mm Septa, RedRubber/PTFE beige, 1.0mm, 45° shore A	100
Z-VIA-11020104	11mm Septa, Silicone white/PTFE red, 1.3mm, 45° shore A	100
Z-VIA-11020140	11mm Septa, Silicone cream/PTFE red, 1.5mm, 55° shore A,	100
Z-VIA-11020115	11mm Septa, PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100
Z-VIA-11020446	11mm Septa, Silicone white/PTFE blue, cross-slitted, 1.5mm, 55° shore A	100
Z-VIA-11020176	11mm Septa, PTFE virginal, 0.25mm, 53° shore D	100

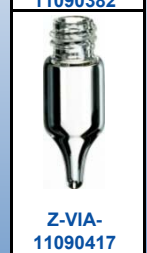
3. Screw Neck Vials and PP Screw Seals ND8

Screw Neck Vials ND8, 8-425 Thread, with small opening

The vials are preferentially used on instruments of the following manufacturers: Beckman, CTC, Gilson, Knauer, Shimadzu, Spark, Varian, VWR (Merck®)/Hitachi, etc.



Art. No.	Description	PU
Z-VIA-11090210 Z-VIA-11092175	1.5ml, clear glass, Thread 8-425, 32 x 11.6mm <i>SILANIZED</i>	100
Z-VIA-11090419	1.5ml, clear glass, Thread 8-425, with label and filling lines, 32 x 11.6mm	100
Z-VIA-11090259	1.5ml, amber glass, Thread 8-425, 32 x 11.6mm	100
Z-VIA-11090382 Z-VIA-11092190	1.5ml, amber glass, Thread 8-425, with label and filling lines, 32 x 11.6mm <i>SILANIZED</i>	100
Z-VIA-11090417	1.1ml Micro-Vial, clear glass, Thread 8-425, 32 x 11.6mm, conical	100



Micro-Inserts for Screw Neck Vials ND8, with small opening



Art. No.	Description	PU
Z-VIA-05090129	0.1ml, clear glass, conical, 15mm top, 31 x 5mm	100
Z-VIA-05091674	0.2ml, clear glass, flat bottom, 31 x 5mm	100
Z-VIA-05090968	0.1ml, clear glass, conical, with assembled plastic spring, 29 x 5mm	100
Z-VIA-05090269	0.1ml, clear glass, conical, 9mm top, 31 x 5mm	100
Z-VIA-05090279 + Z-VIA-05130426	0.05ml, clear glass, conical, 27.5 x 4mm + Spring, 36 x 5mm	100 100

PP Screw Seals ND8, black, 5.5mm hole, 8-425 Thread, with assembled septa



Art. No.	Description	PU
Z-VIA-08150460	Natural Rubber red-orange/TEF transparent, 1.3mm, 60o shore A	100
Z-VIA-08151965	RedRubber/PTFE beige, 1.0mm, 45o shore A, Agilent Quality	100
Z-VIA-08151637	Butyl red/PTFE grey, 1.3mm, 55o shore A	100
Z-VIA-08150293	Silicone white/PTFE red, 1.3mm, 45o shore A	100
Z-VIA-08150294	PTFE red/Silicone white/PTFE red, 1.0mm, 45o shore A	100
Z-VIA-08150427	Silicone cream/PTFE red, 1.5mm, 55o shore A	100

3in1 Kits for VWR (Merck®)/Hitachi Autosampler

2in1 Kits for Varian Autosampler

Art. No.	No. Vial	No. Cap	No. Septa
Z-VIA-11231047	Z-VIA-11090210 1.5ml, clear glass, 32 x 11.6mm	Z-VIA-08080027 8mm PP Screw Cap, black, with hole	Z-VIA-08020039 8mm Septa, Silicone white/PTFE blue, Slitted, 0.9mm, 55° shore A
Z-VIA-11231045	Z-VIA-11090210 1.5ml, clear glass, 32 x 11.6mm	Z-VIA-08150460 PP Screw Cap, black, with hole; Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	

Art. No.	No. Vial	No. Seal
Z-VIA-11231046	Z-VIA-11090210 1.5ml, clear glass, 32 x 11.6mm	Z-VIA-08150293 PP Screw Cap, black, with hole; Silicone white/PTFE red, 1.3mm, 45° shore A
Z-VIA-11231098	Z-VIA-11090259 1.5ml, clear glass, 32 x 11.6mm	Z-VIA-08150293 PP Screw Cap, black, with hole; Silicone white/PTFE red, 1.3mm, 45° shore A

4. Short Thread Vials and PP Short Thread Seals ND9

Short Thread Vials ND9, 9-425 Thread, with wide opening

The vials can be used on all common autosamplers due to their technical geometry, preferentially they are used on instruments of the following manufacturers: Agilent, HTA, Shimadzu, Thermo Scientific, Varian, Waters®, etc.



Art. No.	Description	PU
Z-VIA-11090500 Z-VIA-11091241	1.5ml, clear glass, Thread 9-425, 32 x 11.6mm SILANIZED	100
Z-VIA-11090519	1.5ml, clear glass, Thread 9-425, with label and filling lines, 32 x 11.6mm	100
Z-VIA-11090520 Z-VIA-11091242	1.5ml, amber glass, Thread 9-425, with label and filling lines, 32 x 11.6mm SILANIZED	100
Z-VIA-11090620 Z-VIA-11092178	1.1ml, Microliter-Vial, clear glass, Thread 9-425, with 15µl inner cone, 32 x 11.6mm SILANIZED	100
Z-VIA-11092275	0.9ml, Total Microliter-Vial, Thread 9-425, residual volume <1µl, 32 x 11.6mm	100
Z-VIA-11090999	Short Thread Vial, clear glass, with label and filling lines, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass	100
Z-VIA-11091957	Short Thread Vial, amber glass, with label and filling lines, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass	100
Z-VIA-11141189 Z-VIA-11141265 Z-VIA-11141655 Z-VIA-11141694	TopSert: TPX Short Thread Vial, clear, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass SILANIZED Micro-Insert amber TPX amber TPX, SILANIZED Micro-Insert	100
Z-VIA-11190932 Z-VIA-11191216	0.3ml, PP Short Thread Micro-Vial, transparent, Thread 9-425, conical, 32 x 11.6mm amber	100
Z-VIA-11191205 Z-VIA-11191516	1.5ml, PP Short Thread Vial, transparent, Thread 9-425, with filling lines, slightly concave shaped bottom, 32 x 11.6mm amber	100
Z-VIA-11191021	0.3ml, TPX Short Thread Micro-Vial, crystal clear, Thread 9-425, conical, 32 x 11.6mm	100
Z-VIA-11191706	0.7ml, PP Short Thread Micro-Vial, transparent, Thread 9-425, cylindrical, 32 x 11.6mm	100



Z-VIA-11090500



Z-VIA-11090519



Z-VIA-11090520



Z-VIA-11090620



Z-VIA-11090999



Z-VIA-11141189



Z-VIA-11191205
Z-VIA-11191516

Micro-Inserts for Short Thread Vials ND9, with wide opening



Art. No.	Description	PU
Z-VIA-06090357 Z-VIA-06091240	0.1ml, clear glass, conical, 15mm top, 31 x 6mm SILANIZED	100
Z-VIA-06090669	0.1ml, clear glass, conical, 12mm top, 31 x 6mm	100
Z-VIA-06090865 Z-VIA-06091343	0.1ml, clear glass, conical, with assembled plastic spring, 29 x 5.7mm SILANIZED	100
Z-VIA-06090866	0.1ml, clear glass, flat bottom, 31 x 6mm	100
Z-VIA-06192240	0.1ml, polypropylene, clear, conical, with filling lines, 10mm top, 29 x 6mm	100
Z-VIA-06192241	0.1ml, polypropylene, clear, conical, with filling lines and plastic spring, 10mm top, 29 x 6mm	100
Z-VIA-06192242	0.1ml, polypropylene, clear, flat bottom, 31 x 6mm	100

4. Short Thread Vials and PP Short Thread Seals ND9

PP Short Thread Seals ND9, 6mm hole, 9-425 Thread, with assembled septa

Art. No. transparent Cap	Art. No. blue Cap	Art. No. red Cap	Art. No. black Cap	Art. No. green Cap	Art. No. yellow Cap	Description	PU
Z-VIA-09150478	Z-VIA-09150867	Z-VIA-09151176	Z-VIA-09151570	Z-VIA-09151356	Z-VIA-09151542	Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A	100
Z-VIA-09152011	Z-VIA-09151819	Z-VIA-09152012	Z-VIA-09152013	Z-VIA-09151911	Z-VIA-09152014	RedRubber/PTFE beige, 1.0mm, 45° shore A, <i>Agilent Quality</i>	100
Z-VIA-09150481	Z-VIA-09150838	Z-VIA-09151178	Z-VIA-09151572	Z-VIA-09151332	Z-VIA-09151527	Silicone white/PTFE red, 1.0mm, 55° shore A	100
Z-VIA-09150852	Z-VIA-09150869	Z-VIA-09151179	Z-VIA-09151669	Z-VIA-09151746	Z-VIA-09151745	Silicone white/PTFE blue, slitted, 1.0mm, 55° shore A	100
Z-VIA-09150480	Z-VIA-09150868	Z-VIA-09151177	Z-VIA-09151571	Z-VIA-09151485	Z-VIA-09151486	PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100
Z-VIA-09150981	Z-VIA-09150982	Z-VIA-09151337	Z-VIA-09151668	Z-VIA-09151539	Z-VIA-09152015	PTFE virginal, 0.2mm, 53° shore D	100



Upon request
Vials and
Seals are
also available
as 2in1 KIT



PRE-CUT Short Thread Seals for die HPLC, 6mm hole, 9-425 Thread



Advantages of the PRE-CUT Septa

→As the Silicone part of the septa represents 95 per cent of the complete septa thickness, the needle can easily penetrate through the Y-slit for most of the septa's thickness. Only the 0.05mm thick PTFE- lamination which is uncut needs to be penetrated by the HPLC needle itself but this goes without any problems even for these needles.

→The unhurt PTFE-lamination will also give 100 per cent protection to the sample with regard to any possible contamination until the needle pierces through it to pull out the sample for injection.

→The Y-form of the pre-cut was chosen in order to give the needle a lot of target area for penetration even if the needle doesn't come down centrally. Besides that the Y-form of the pre-cut allows a better flow of air during sample pick up in order to avoid a vacuum in the vial.



Art. No.	Description	PU
Z-VIA-09152021	PP Short Thread Cap, transparent, with hole; Silicone white/PTFE red, 55° shore A, 1.0mm, pre-cut (Y)	100
Z-VIA-09152016	PP Short Thread Cap, blue, with hole; Silicone white/PTFE red, 55° shore A, 1.0mm, pre-cut (Y)	100

4. Short Thread Vials and PP Short Thread Seals ND9

UltraBond Seals ND9, 6mm hole, 9-425 Thread



Cap and Septa form an inseparable unit so that the liner cannot be pushed into the vial even with a blunt needle

Art. No.	Description	PU
Z-VIA-09041220	PP Short Thread Cap, black, with hole; Silicone white/PTFE red, 11.3mm, 45° shore A	100
Z-VIA-09041533	PP Short Thread Cap, blue, with hole; Silicone white/PTFE beige, 1.3mm, 45° shore A (<i>improved Waters® Quality</i>)	100
Z-VIA-09041534	PP Short Thread Cap, blue, with hole; Silicone white/PTFE beige, slitted, 1.3mm, 45° shore A (<i>improved Waters® Quality</i>)	100

PP Short Thread Seals ND9, blue, closed top, 9-425 Thread, with assembled septa

Art. No.	Description	PU
Z-VIA-09151828	PTFE virginal, 0.2mm, 53° shore D	100
Z-VIA-09151887	Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A	100
Z-VIA-09151799	Silicone white/PTFE red, 1.0mm, 55° shore A	100

9mm Short Thread MS Cap, 9-425 Thread



None-bleeding One Component Closure for LC/MS and GC/MS applications

- One Component Closure – no bleeding
- Absolutely inert
- LC/GC MS certified
- Tight like a septa

Art. No.	Description	PU
Z-VIA-09082000	9mm Short Thread MS Cap, transparent, with thinned penetration area and diaphragm	100

Magnetic Short Thread Seal, 6mm hole, 9-425 Thread



For CTC GC PAL and Thermo Scientific TriPlus autosampler

- More convenient and safer in handling than 11mm Magnetic Crimp Seals
- Ready-to-use closure
- Officially tested and approved by CTC Analytics

Art. No.	Description	PU
Z-VIA-09151907	UltraClean Closure: PP-Short Thread Screw Cap, blue, with hole, with assembled Magnetic Cap, gold; Silicone white/PTFE red, 1.0mm, 55° shore A	100

5. Screw Neck Vials and PP Screw Seals ND10

Screw Neck Vials ND10, 10-425 Thread, with wide opening

The vials are preferentially used on instruments of the following manufacturers: Jasco, PerkinElmer, Shimadzu, Varian, Waters®, etc.



Art. No.	Description	PU
Z-VIA-10090743	1.5ml, clear glass, Thread 10-425, 32 x 11.6mm	100
Z-VIA-10091196	1.5ml, clear glass, Thread 10-425, with label and filling lines, 32 x 11.6mm	100
Z-VIA-10091197	1.5ml, amber glass, Thread 10-425, with label and filling lines, 32 x 11.6mm	100



Z-VIA-10090743



Z-VIA-10091196



Z-VIA-10091197

Micro-Inserts for Screw Neck Vials ND10, with wide opening



Art. No.	Description	PU
Z-VIA-06090357 Z-VIA-06091240	0.1ml, clear glass, conical, 15mm top, 31 x 6mm, SILANIZED	100
Z-VIA-06090669	0.1ml, clear glass, conical, 12mm top, 31 x 6mm	100
Z-VIA-06090865 Z-VIA-06091343	0.1ml, clear glass, conical, with assembled plastic spring, 29 x 5.7mm, SILANIZED	100
Z-VIA-06090866	0.1ml, clear glass, flat bottom, 31 x 6mm	100
Z-VIA-06192240	0.1ml, polypropylene, clear, conical, with filling lines, 10mm top, 29 x 6mm	100
Z-VIA-06192241	0.1ml, polypropylene, clear, conical, with filling lines and plastic spring, 10mm top, 29 x 6mm	100
Z-VIA-06192242	0.1ml, polypropylene, clear, flat bottom, 31 x 6mm	100



Z-VIA-06090357

PP Screw Seals ND10, black, 7mm hole, 10-425 Thread, with assembled septa



Art. No.	Description	PU
Z-VIA-10151256	Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-10151257	Silicone white/PTFE red, 1.3mm, 45° shore A	100
Z-VIA-10150744	Silicone white/PTFE beige, 1.5mm, 45° shore A	100
Z-VIA-10151258	PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100
Z-VIA-10151328	Silicone white/PTFE blue, slitted, 1.5mm, 55° shore A	100

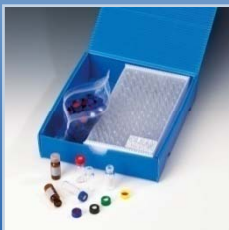


Z-VIA-06192240



Z-VIA-06090865

2in1 KITs – Screw Neck Vials and PP Screw Seals ND10



Art. No.	Description Vial	Description Seal
Z-VIA-10321282 2in1 KIT consisting of: Z-VIA-10090743 + Z-VIA-10151257	1.5ml, clear glass, Thread 10-425, 32 x 11.6mm	PP Screw Cap, black, with hole; Silicone white/PTFE red, 1.3mm, 45° shore A
Z-VIA-10321330 2in1 KIT consisting of: Z-VIA-10091196 + Z-VIA-10151328	1.5ml, clear glass, Thread 10-425, with label and filling lines, 32 x 11.6mm	PP Screw Cap, black, with hole; Silicone white/PTFE blue, slitted, 1.5mm, 55° shore A
Z-VIA-10321283 2in1 KIT consisting of: Z-VIA-10091197 + Z-VIA-10151257	1.5ml, amber glass, Thread 10-425, with label and filling lines, 32 x 11.6mm	PP Screw Cap, black, with hole; Silicone white/PTFE red, 1.3mm, 45° shore A



Z-VIA-06090866

6. Snap Ring Vials and PE Snap Ring Seals ND11

Snap Ring Vials ND11, with wide opening

The vials are preferentially used on instruments of the following manufacturers: Agilent, CTC, DANI, Dionex, Jasco, Shimadzu, Spark, Thermo Scientific, Varian, VWR (Merck®)/Hitachi, Waters®, etc.



Art. No.	Description	PU
Z-VIA-11090627 Z-VIA-11092173	1.5ml, clear glass, Snap Ring ND11, 32 x 11.6mm SILANIZED	100
Z-VIA-11090644	1.5ml, clear glass, Snap Ring ND11, with label and filling lines, 32 x 11.6mm	100
Z-VIA-11090645 Z-VIA-11092189	1.5ml, amber glass, Snap Ring ND11, with label and filling lines, 32 x 11.6mm SILANIZED	100
Z-VIA-11092276	0.9ml, Total Microliter-Vial, Snap Ring ND11, residual volume <1µl, 32 x 11.6mm	100
Z-VIA-11141190 Z-VIA-11141266	TopSert: TPX Snap Ring Vial, clear, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass SILANIZED Micro-Insert	100
Z-VIA-11141656 Z-VIA-11141695	TopSert: TPX Snap Ring Vial, amber, 32 x 11.6mm, with integrated 0.2ml Micro-Insert, clear glass SILANIZED Micro-Insert	100
Z-VIA-11190933 Z-VIA-11191217	0.3ml, PP Snap Ring Micro-Vial, transparent, Snap Ring ND11, conical, 32 x 11.6mm amber	100
Z-VIA-11191022	0.3ml, TPX Snap Ring Micro-Vial, crystal clear, Snap Ring ND11, conical, 32 x 11.6mm	100
Z-VIA-11191707	0.7ml, PP Snap Ring Micro-Vial, transparent, Snap Ring ND11, cylindrical, 32 x 11.6mm	100

Micro-Inserts for Snap Ring Vials ND11, with wide opening



Art. No.	Description	PU
Z-VIA-06090357 Z-VIA-06091240	0.1ml, clear glass, conical, 15mm top, 31 x 6mm SILANIZED	100
Z-VIA-06090669	0.1ml, clear glass, conical, 12mm top, 31 x 6mm	100
Z-VIA-06090865 Z-VIA-06091343	0.1ml, clear glass, conical, with assembled plastic spring, 29 x 5.7mm SILANIZED	100
Z-VIA-06090866	0.1ml, clear glass, flat bottom, 31 x 6mm	100
Z-VIA-06192240	0.1ml, polypropylene, clear, conical, with filling lines, 10mm top, 29 x 6mm	100
Z-VIA-06192241	0.1ml, polypropylene, clear, conical, with filling lines and plastic spring, 10mm top, 29 x 6mm	100
Z-VIA-06192242	0.1ml, polypropylene, clear, flat bottom, 31 x 6mm	100



Z-VIA-11090627



Z-VIA-11090644



Z-VIA-11092276



Z-VIA-11141190



Z-VIA-11141656



Z-VIA-11190933



Z-VIA-11191707

6. Snap Ring Vials and PE Snap Ring Seals ND11

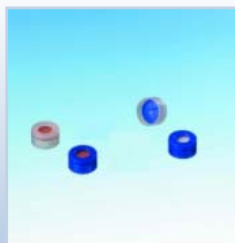


- SOFT Cap Version is easier to push on and remove and thus more convenient
- Equivalent product to Agilent
- HARD Cap Version achieves a relatively better tightness

PE Snap Ring Seals ND11, HARD Cap quality, 6mm hole, with assembled septa

Art. No. transparent Cap	Art. No. blue Cap	Art. No. red Cap	Art. No. green Cap	Art. No. yellow Cap	Description	PU
Z-VIA-11150635	Z-VIA-11151267	Z-VIA-11151323	Z-VIA-11151555	Z-VIA-11151556	Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A	100
Z-VIA-11152106	Z-VIA-11152107				RedRubber/PTFE beige, 1.0mm, 45° shore A, Agilent Quality	100
Z-VIA-11150637	Z-VIA-11151151	Z-VIA-11151325	Z-VIA-11152017	Z-VIA-11151886	Silicone white/PTFE red, 1.0mm, 55° shore A	100
Z-VIA-11150636	Z-VIA-11151268	Z-VIA-11151324	Z-VIA-11152018	Z-VIA-11151677	PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100
Z-VIA-11150650	Z-VIA-11151269	Z-VIA-11151326	Z-VIA-11151794	Z-VIA-11151793	Silicone white/PTFE blue, slitted, 1.0mm, 55° shore A	100
Z-VIA-11152045	Z-VIA-11152047				Silicone white/PTFE red, 1.3mm, 45° shore A, pre-cut (Y)	100

PE Snap Ring Seals ND11, SOFT Cap quality, 6mm hole, with assembled septa



Art. No. transparent Cap	Art. No. blue Cap	Description	PU
Z-VIA-11151850	Z-VIA-11151856	Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A	100
Z-VIA-11151983	Z-VIA-11151817	RedRubber/PTFE beige, 1.0mm, 45° shore A, Agilent Quality	100
Z-VIA-11151852	Z-VIA-11151854	Silicone white/PTFE red, 1.0mm, 55° shore A	100
Z-VIA-11151851	Z-VIA-11151857	PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100
Z-VIA-11151853	Z-VIA-11151858	Silicone white/PTFE blue, slitted, 1.0mm, 55° shore A	100
Z-VIA-11152046	Z-VIA-11152048	Silicone white/PTFE red, 1.3mm, 45° shore A, pre-cut (Y)	100

2in1 KITS – Snap Ring Vials and PE Snap Ring Seals ND11



Art. No.	Description Vial	Description Seal
Z-VIA-11261059 2in1 KIT consisting of: Z-VIA-11090627 + Z-VIA-11150635	1.5ml, clear glass, Snap Ring ND11, 32 x 11.6mm	PE Snap Ring Cap, transparent, with hole; Natural Rubber red-orange/TEF transparent, 1.0mm, 60° shore A
Z-VIA-11261060 2in1 KIT consisting of: Z-VIA-11090627 + Z-VIA-11150637	1.5ml, clear glass, Snap Ring ND11, 32 x 11.6mm	PE Snap Ring Cap, transparent, with hole; Silicone white/PTFE red, 1.3mm, 45° shore A
Z-VIA-11261061 2in1 KIT consisting of: Z-VIA-11090627 + Z-VIA-11150650	1.5ml, clear glass, Snap Ring ND11, 32 x 11.6mm	PE Snap Ring Cap, transparent, with hole; Silicone white/PTFE blue, cross-slitted, 1.0mm, 55° shore A
Z-VIA-11261062 2in1 KIT consisting of: Z-VIA-11090627 + Z-VIA-11150636	1.5ml, clear glass, Snap Ring ND11, 32 x 11.6mm	PE Snap Ring Cap, transparent, with hole; PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A
Z-VIA-11261837 2in1 KIT consisting of: Z-VIA-11090644 + Z-VIA-11151269	1.5ml, clear glass, Snap Ring ND11, with label and filling lines, 32 x 11.6mm	PE Snap Ring Cap, blue, with hole; Silicone white/PTFE blue, cross-slitted, 1.0mm, 55° shore A

7. Screw Neck Vials and PP Screw Seals ND13

Screw Neck Vials ND13, 13-425 Thread

The vials are preferentially used on instruments of the following manufacturers: Dionex, Shimadzu, Spark, Varian, VWR (Merck®)/Hitachi (Wisp 48 Position Carousel), etc.



Art. No.	Description	PU
Z-VIA-13090222	4ml, clear glass, Thread 13-425, 45 x 14.7mm	100
Z-VIA-13091335	4ml, clear glass, Thread 13-425, with label and filling lines, 45 x 14.7mm	100
Z-VIA-13090280	4ml, amber glass, Thread 13-425, 45 x 14.7mm	100
Z-VIA-13091336	4ml, amber glass, Thread 13-425, with label and filling lines, 45 x 14.7mm	100



Z-VIA-13090222

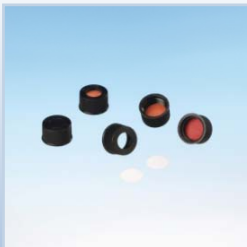
Micro-Insert for Screw Neck Vials ND13

Art. No.	Description	PU
Z-VIA-40090146 +	0.3ml, clear glass, 15mm top, 40 x 6mm	10x 100
Z-VIA-50130147	Spring, 50 x 7.5mm (for Micro-Insert 40 09 0146)	100



Z-VIA-13091335

PP Screw Seals ND13, black, 8.5mm hole / closed top, 13-425 Thread, with assembled septa



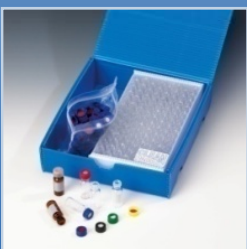
Art. No.	Description	PU
Z-VIA-13150456	Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-13150439	closed top Cap	
Z-VIA-13150815 Z-VIA-13150648	Silicone cream/PTFE red, 1.5mm, 55° shore A closed top Cap	100
Z-VIA-13151639 Z-VIA-13151638	Butyl red/PTFE grey, 1.3mm, 55° shore A closed top Cap	100
Z-VIA-13150292	PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100
Z-VIA-13151293	Silicone white/PTFE blue, cross-slitted, 1.5mm, 55° shore A	100



Z-VIA-13090280

Single components ND13 – Caps / Septa

Upon request Vials and Seals are also available as 2in1 KIT



Art. No.	Description	PU
Z-VIA-13080166	PP Screw Cap, black, Thread 13-425, 8.5mm hole	100
Z-VIA-13080336	PP Screw Cap, black, Thread 13-425, closed top	100
Z-VIA-12020168	PTFE virginal, 0.25mm, 53° shore D (<i>only unassembled</i>)	100
Z-VIA-12020223	12mm Septa, Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm	100
Z-VIA-12021635	12mm Septa, Butyl red/PTFE grey, 1.3mm, 55° shore A	100
Z-VIA-12020143	12mm Septa, Silicone cream/PTFE red, 1.5mm, 55° shore A	100
Z-VIA-12020463	12mm Septa, PTFE red/Silicone white/PTFE red, 1.0mm, 45° shore A	100



Z-VIA-13091336

8. Shell Vials

Shell Vials 1ml, 2ml and 4ml with PE-Plug

The vials are preferentially used on instruments of the following manufacturers:
Alcott, Shimadzu, Waters® (Wisp 96 respectively 48 Position Carousel)



Art. No.	Description	PU
Z-VIA-08140641	1ml, clear glass, 35 x 7.8mm; with 6mm PE-Plug, transparent	100
Z-VIA-08141168	1ml, clear glass, 40 x 8.2mm; with 8mm PE-Plug, transp. <i>(without insertion barrier)</i>	100
Z-VIA-08140513	<i>with insertion barrier (for usage with a Micro-Insert)</i>	
Z-VIA-08141169	1ml, amber glass, 40 x 8.2mm; with 8mm PE-Plug, transp. <i>(without insertion barrier)</i>	100
Z-VIA-08140595	<i>with insertion barrier (for usage with a Micro-Insert)</i>	
Z-VIA-05090706	0.1ml, Micro-Insert, clear glass, 13mm top, 34 x 5mm	100
Z-VIA-11140544	2ml, clear glass, 31.5 x 11.6mm; with 12m PE-Plug, transparent	100
Z-VIA-11140545	2ml, amber glass, 31.5 x 11.6mm; with 12m PE-Plug, transparent	100
Z-VIA-06090357	0.1ml, Micro-Insert, clear glass, 15mm top, 31 x 6mm	100
Z-VIA-15140548	4ml, clear glass, 44.6 x 14.65mm; with 15m PE-Plug, transparent	100
Z-VIA-15140562	4ml, amber glass, 44.6 x 14.65mm; with 15m PE-Plug, transparent	100
Z-VIA-06090651	0.3ml, Micro-Insert, clear glass, 13mm top, 43.45 x 6mm	100
Z-VIA-08342194	1ml, polypropylene, clear, 40 x 8mm; with 8mm PE-Plug, transparent	100
Z-VIA-15342197	4ml, polypropylene, clear, 44.6 x 14.65mm; with 15mm PE-Plug, transparent	100
Z-VIA-15342199	3ml, polypropylene, clear, with inner cone, 44.6 x 14.65mm; with 15mm PE-Plug, transp.	100

2in1 KITS for Shell Vials and PE-Plugs



Art. No.	Description Vial	Description Plug
Z-VIA-08271672 2in1 KIT consisting of: Z-VIA-08090483 + Z-VIA-08081167	1ml, clear glass, 40 x 8.2mm	8mm PE-Plug, transparent <i>(without insertion barrier)</i>
Z-VIA-11271063 2in1 KIT consisting of: Z-VIA-11090537 + Z-VIA-12080546	2ml, clear glass, 31.5 x 11.6mm	12mm PE-Plug, transparent
Z-VIA-15271065 2in1 KIT consisting of: Z-VIA-15090539 + Z-VIA-15080547	4ml, clear glass, 44.6 x 14.65mm	15mm PE-Plug, transparent

9. Snap Cap Vials and Snap Caps ND18 / ND22

Snap Cap Vials ND18 / ND22, 3rd hydrolytic class glass



Art. No.	Description	PU
Z-VIA-18090906	5ml, clear glass, 3rd hydrolytic class, Snap Cap Vial ND18, 40 x 20mm	100
Z-VIA-18090907	10ml, clear glass, 3rd hydrolytic class, Snap Cap Vial ND18, 50 x 22mm	100
Z-VIA-20090784	15ml, clear glass, 3rd hydrolytic class, Snap Cap Vial ND22, 48 x 26mm	100
Z-VIA-22080794	25ml, clear glass, 3rd hydrolytic class, Snap Cap Vial ND22, 65 x 26mm	100

Snap Caps ND18 / ND22, with closed top

Art. No.	Description	PU
Z-VIA-18080913	18mm, PE Snap Cap, transparent, closed top, 19.8 x 5.2mm, for ND18	100
Z-VIA-22021393	22mm, PE Snap Cap, transparent, closed top, 23.5 x 5.5mm, for ND22	100

10. Headspace Vials and Crimp Seals ND20

Headspace Vials ND20



The Headspace instruments on the market require a broad variety of vials and closures. To facilitate the identification of the right vial indications on the instrument suitability are given in the product overview.

Headspace Vials might differ in:

→ Volume (5ml, 10ml, 20ml)

→ Rounded or Flat Bottom

A rounded bottom is more sturdy and thus more resistant to the high pressure within the vial during the heating process. Furthermore the vial slides more easily into the heating block when being transported by a magnet. A flat bottom might be necessary when vials have to run within the instrument on a slightly downwards tendency.

→ Bevelled Top or flat DIN Crimp Neck

A bevelled top Headspace Neck might be required for some special closure systems (PerkinElmer), however, a liner has more surface to lie on with a flat DIN Crimp Neck. The more surface for the liner to rest on, the tighter the seal.

→ Length of the Neck (instrument specific)

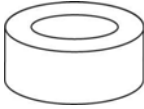
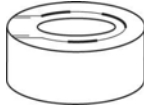


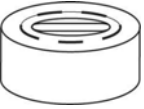
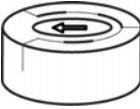
→ Clear / amber glass

→ With / without label and filling lines

Z-VIA-20090342	clear glass Z-VIA-20091405 amber glass Z-VIA-20091691	Z-VIA-20090795	clear glass Z-VIA-20090873 amber glass Z-VIA-20091690	Z-VIA-20090440	Z-VIA-20090796	clear glass Z-VIA-20090297 amber glass Z-VIA-20091223	Z-VIA-20090801	Z-VIA-20090802	Z-VIA-20090289
Perkin Elmer	Carlo Erba, CTC, Fisons, Varian, etc.	Carlo Erba, Dani, Fisons, Agilent	CTC PAL (Varian, Gerstel, Atas, Shimadzu) , TriPlus HS	Perkin Elmer, Tekmar	Carlo Erba, Dani, Fisons, Agilent	Perkin Elmer, Tekmar	Varian	Varian	Varian
5ml	10ml	10ml	20ml	20ml	20ml	20ml	5ml	10ml	50ml
Bevelled HS-Crimp Neck, rounded bottom	DIN-Crimp Neck, rounded bottom	DIN-Crimp Neck, long neck, flat bottom	DIN-Crimp Neck, long neck, rounded bottom	Bevelled HS-Crimp Neck, rounded bottom	DIN-Crimp Neck, long neck, flat bottom	Bevelled HS-Crimp Neck, rounded bottom	DIN-Crimp Neck, flat bottom	DIN-Crimp Neck, flat bottom	DIN-Crimp Neck, flat bottom
38.2 x 22mm	46 x 22.5mm	46 x 22.5mm	75.5 x 22.5mm	75.5 x 23mm	75.5 x 22.5mm	75.5 x 23mm	38 x 20mm	54.5 x 20mm	101 x 31mm
100	100	100	100	100	100	100	100	100	100








10. Headspace Vials and Crimp Seals ND20

Crimp Seals ND20

Description Cap / Septamaterial	PU 100					
						
Butyl dark grey, 3.0mm, 55° shore A	Z-VIA-20030127	Z-VIA-20030126	Z-VIA-20031157		Z-VIA-20030195	Z-VIA-20030212
Butyl/PTFE grey, 3.0mm, 50° shore A	Z-VIA-20030059	Z-VIA-20030112	Z-VIA-20031186	Z-VIA-20031623	Z-VIA-20030194	Z-VIA-20030186
Pharma-Fix-Septa, Butyl/PTFE, 3.0mm, 50° shore A	Z-VIA-20030030	Z-VIA-20030264	Z-VIA-20031200		Z-VIA-20030060	Z-VIA-20030061
Silicone blue transparent/PTFE white, 3.0mm, 45° shore A	Z-VIA-20030142	Z-VIA-20030163			Z-VIA-20030226	Z-VIA-20030227
Silicone blue transparent/PTFE transparent, 3.0mm, 45° shore A			Z-VIA-20030975	Z-VIA-20031536		
Silicone white/PTFE beige, 3.2mm, 45° shore A	Z-VIA-20030901	Z-VIA-20030828	Z-VIA-20031785	Z-VIA-20031604		
Silicone white/Aluminium foil silver, 3.2mm, 50° shore A	Z-VIA-20030327	Z-VIA-20030326				

Upon request
Vials and Seals
are also available
as pre-crimped
combinations

Septa for Crimp Seals ND20

							
Z-VIA-20020122	Z-VIA-20020057	Z-VIA-20020035	Z-VIA-20020141	Z-VIA-20022054	Z-VIA-20020638	Z-VIA-20020335	Z-VIA-20100290
20mm Moulded Septa Butyl, dark grey, 55o shore A, 3.0mm	20mm Moulded Septa Butyl/PTFE, grey, 50o shore A, 3.0mm	20mm Pharma-Fix-Septa, Butyl/PTFE, 50o shore A, 3.0mm	20mm Septa, Silicone blue transparent/PTFE white, 45o shore A, 3.0mm	20mm Septa, Silicone blue transparent/PTFE, 45o shore A, 3.0mm	20mm Septa, Silicone white/PTFE beige, 45o shore A, 3.2mm	20mm Septa, Silicone white/Aluminium oil silver, 50o shore A, 3.2mm	20mm Butyl Injection Stopper, grey, rec. by PerkinElmer
100	100	100	100	100	100	100	100

11. Precision Thread Vials and Magnetic Universal Screw Seals ND18

Precision Thread Vials ND18



Art. No.	Description	PU
Z-VIA-18091306	10ml, Precision Thread Vial, clear glass, rounded bottom, 46 x 22.5mm	100
Z-VIA-18091310	10ml, Precision Thread Vial, amber glass, rounded bottom, 46 x 22.5mm	100
Z-VIA-18091307	20ml, Precision Thread Vial, clear glass, rounded bottom, 46 x 22.5mm	100
Z-VIA-18091311	20ml, Precision Thread Vial, amber glass, rounded bottom, 46 x 22.5mm	100



Z-VIA-18091306 /
Z-VIA-18091310

Z-VIA-18091307 /
Z-VIA-18091311

Magnetic Universal Screw Seals ND18, silver, 8mm hole



Art. No.	Description	PU
Z-VIA-18031309	Silicone blue transparent/PTFE white, 1.3mm, 45° shore A	100
Z-VIA-18031414	Silicone white/PTFE blue, 1.5mm, 55° shore A	100
Z-VIA-18031578	Silicone white/PTFE red, 1.3mm, 45° shore A	100
Z-VIA-18031416	Butyl red/PTFE grey, 55° shore A, 1.6mm	100
Z-VIA-18031874	Silicone white/Aluminium foil silver, 1.3mm, 50° shore A	100
Z-VIA-18032063	Silicone white PTFE red, 1.5mm, 55° shore A, pre-cut star (*)	100

Magnetic Universal Screw Seals ND18, silver, closed top

Art. No.	Description	PU
Z-VIA-18031666	Silicone white/PTFE red, 1.3mm, 45° shore A	100
Z-VIA-18031667	Butyl red/PTFE grey, 1.6mm, 55° shore A	100

PRE-CUT Magnetic Universal Screw Seal ND18 for SPME, silver, 8mm hole



Advantages of the PRE-CUT Septa in SPME

- Safer penetration for the sensitive SPME-phase
- Besides the penetration support given by the pre-cut septa, there is also a very low number of fragmentation generated during the penetration process which is also very important in case of SPME
- Silicone layer is cut through in star shape, the PTFE lamination remains intact
- The intact PTFE lamination will give 100 per cent sample integrity avoiding any contamination out of the Silicone material
- The star-shape of the pre-cut was chosen, in order to give the needle a lot of target area for penetration and the septa enough space to spread apart.

Art. No.	Description	PU
Z-VIA-18032063	Silicone white PTFE red, 1.5mm, 55° shore A, pre-cut star (*)	100

12. Screw Neck Vials and PP Screw Seals ND24 (EPA)

Screw Neck Vials ND24 (EPA), 24-400 Thread

The vials are preferentially used on instruments of the following manufacturers: Agilent, Dionex, Shimadzu, Tekmar, Thermo Scientific, Varian



Art. No.	Description	PU
Z-VIA-24090589	20ml, EPA Screw Neck Vial, clear glass, Thread 24-400, 57 x 27.5mm	100
Z-VIA-24090927	<i>amber</i>	
Z-VIA-24090839	30ml, EPA Screw Neck Vial, clear glass, Thread 24-400, 72.5 x 27.5mm	100
Z-VIA-24090923	<i>amber</i>	
Z-VIA-24090402	40ml, EPA Screw Neck Vial, clear glass, Thread 24-400, 95 x 27.5mm	100
Z-VIA-24090928	<i>amber</i>	
Z-VIA-24091089	60ml, EPA Screw Neck Vial, clear glass, Thread 24-400, 140 x 27.5mm	100
Z-VIA-24091090	<i>amber</i>	

All EPA Vials can be delivered for a small surcharge with a certificate of cleanliness that might especially be needed for TOC analysis.



Z-VIA-24090589 /
Z-VIA-24090927

Z-VIA-24090839 /
Z-VIA-24090923

Z-VIA-24090402 /
Z-VIA-24090928

Z-VIA-24091089 /
Z-VIA- 24091090

PP Screw Seals ND24, white, 12.5mm hole / closed top, 24-400 Thread



Art. No.	Description	PU
Z-VIA-24151394	Butyl red/PTFE grey, 2.5mm, 55° shore A	100
Z-VIA-24151395	<i>closed top Cap</i>	
Z-VIA-24151163	Silicone white/PTFE beige, 3.2mm, 45° shore A	100
Z-VIA-24151540	<i>(EPA-quality) closed top Cap (EPA-quality)</i>	

UltraBond Seals ND24, centre hole / closed top, 24-400 Thread



Cap and Septa form an inseparable unit so that the liner cannot be pushed into the vial even with a blunt needle

Art. No.	Description	PU
Z-VIA-24040842	PP Screw Cap, white; Silicone natural/PTFE beige, 3.2mm, 45° shore A	100
Z-VIA-24040841	<i>(EPA-quality) closed top Cap (EPA-quality)</i>	

Single components ND24 – Caps / Septa

Upon request Vials and Seals are also available as pre-screwed combinations

Art. No.	Description	PU
Z-VIA-24080403	PP Screw Cap, white, Thread 24-400, 12.5mm hole	100
Z-VIA-24080592	PP Screw Cap, white, Thread 24-400, closed top	100
Z-VIA-22021393	22mm Septa, Butyl red/PTFE grey, 2.5mm, 55° shore A	100
Z-VIA-22021108	22mm Septa, Silicone white/PTFE beige, 3.2mm, 45° shore A	100
Z-VIA-22020487	22mm Septa, Silicone white/Aluminium foil silver, 3.0mm, 50° shore A	100

13. Screw Neck Vials and PP Screw Seals for Storage Purposes

Screw Neck Vials and PP Screw Seals ND8, ND13, ND15, ND18, ND20, for storage purposes

- Screw Neck Vials for storage purposes made of 1st hydrolytic class glass
- Vials with different volumes
- Clear and amber glass Vials
- Seals with different septa materials

Art. No.	Description	PU
Z-VIA-11090210 Z-VIA-11090259	1.5ml, clear glass, Thread 8-425, 32 x 11.6mm <i>amber</i>	100
Z-VIA-08151653	PP Screw Cap, black, closed top; Butyl red/PTFE grey, 1.3mm, 55° shore A	100
Z-VIA-08150654	PP Screw Cap, black, closed top; Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-08151040	PP Screw Cap, black, closed top; Silicone white/PTFE red, 1.3mm, 45° shore A	100
Z-VIA-13090222 Z-VIA-13090280	4ml, clear glass, Thread 13-425, 45 x 14.7mm <i>amber</i>	100
Z-VIA-13151638	PP Screw Cap, black, closed top, Butyl red/PTFE grey, 1.3mm, 55° shore A	100
Z-VIA-13150439	PP Screw Cap, black, closed top, Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-13150648	PP Screw Cap, black, closed top, Silicone cream/PTFE red, 1.5mm, 55° shore A	100
Z-VIA-15091703 Z-VIA-15091774	8ml, clear glass, Thread 15-425, 61 x 16.6mm <i>amber</i>	100
Z-VIA-15091657 Z-VIA-15091800	12ml, clear glass, Thread 15-425, 61 x 18.5mm <i>amber</i>	100
Z-VIA-15151748	PP Screw Cap, black, closed top; Butyl red/PTFE grey, 1.6mm, 55° shore A	100
Z-VIA-15150793	PP Screw Cap, black, closed top; Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-15151083	PP Screw Cap, black, closed top; Silicone white/PTFE red, 1.3mm, 45°shore A	100
Z-VIA-15151932	PP Screw Cap, black, 9mm hole; Butyl red/PTFE grey, 1.6mm, 55° shore A	100
Z-VIA-15151938	PP Screw Cap, black, 9mm hole; Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-15151989	PP Screw Cap, black, 9mm hole; Silicone white/PTFE red, 1.3mm, 45°shore A	100
Z-VIA-18091704	16ml, clear glass, Thread 18-400, 71 x 20.6mm	100
Z-VIA-18151387	PP Screw Cap, black, closed top; Butyl red/PTFE grey, 1.6mm, 55° shore A	100
Z-VIA-18151132	PP Screw Cap, black, closed top; Silicone blue transparent/PTFE white, 1.7mm, 45° shore A	100
Z-VIA-18152069	PP Screw Cap, black, closed top; Silicone white/PTFE red, 1.5mm, 55°shore A	100
Z-VIA-20091705	20ml, clear glass, Thread 20-400, 86 x 22.7mm	100
Z-VIA-20151805	PP Screw Cap, white, closed top; Butyl red/PTFE grey, 1.3mm, 55° shore A	100
Z-VIA-20151803	PP Screw Cap, white, closed top; Natural Rubber red-orange/TEF transparent, 1.3mm, 60° shore A	100
Z-VIA-20151804	PP Screw Cap, white, closed top; Silicone white/PTFE red, 1.3mm, 45°shore A	100



Z-VIA-15091703
Z-VIA-15091774
Z-VIA-15091657
Z-VIA-15091800



Z-VIA-18091704



Z-VIA-20091705

14. Vial Racks

Acrylic Vial Racks



- Easy handling and transportation of sample vials
- Filling visible because of transparent acrylic material
- Stable standing position because of solid construction
- Stack stability because of silicone base
- Racks for 8mm and 11mm vials can even hold conically shaped sample vials
- Custom-tailored vial racks can be manufactured according to customer's specifications

Z-VIA-08211000	Z-VIA-12211001	Z-VIA-15211664	Z-VIA-24211002
Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 8.5/3mm	Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 12mm	Vial Rack, Acrylic, 175.8 x 115.5 x 20mm, 40 cavities with a diameter of 5.1mm	Vial Rack, Acrylic, 160 x 160 x 30mm, 25 cavities with a diameter of 24mm
suitable for e.g: Z-VIA- 08090258, 08090284, 08090305, 08090606, 08090845, 08090953, 08091080, 08140513, 08140595, 08140641, 08141168, 08141169, 40090146	suitable for e.g: Z-VIA- 10090743, 10091196, 10091197, 11090210, 11090259, 11090356, 11090382, 11090415, 11090417, 11090419, 11090476, 11090477, 11090500, 11090519, 11090520, 11090619, 11090620, 11090627, 11090644, 11090645, 11090831, 11090921, 11090999, 11091241, 11091242, 11091956, 11091957, 11140544, 11140545, 11141189, 11141190, 11141655, 11141656, 11190932, 11190933, 11191021, 11191022, 11191205, 11191516, 11191706, 11191707	suitable for e.g: Z-VIA- 13090222, 13090280, 13091335, 13091336, 15140548, 15140562	suitable for e.g: Z-VIA- 18090864, 18090906, 18090907, 18091306, 18091307, 18091310, 18091311, 20090297, 20090342, 20090440, 20090795, 20090796, 20090801, 20090802, 20090873, 20091222, 20091223, 20091405, 20091690, 20091691
1	1	1	1

Polypropylene Vial Rack



- Simple design
- Safe standing position of the vials in the rack
- Stackable
- The edge marking helps to clearly identify the sample

Art. No.	Description	PU
Z-VIA-12212187	Vial Rack, polypropylene, 200 x 105 x 17mm, 50 cavities for 1.5ml Vials, with edge marking, stackable	5
Z-VIA-15212480	PP Vial-Rack, (230 x 117 x 28mm), for 4ml vials, 50 cavities, blue, stackable	5

14. Vial Racks

Polypropylene Storage Boxes



PP Storage Boxes for a convenient and safe storage and transportation of sample vials

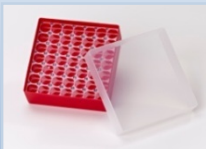
- Safe standing position in dividers designed for the respective diameter
- Ideal for space-saving storage in fridges since the transparent lid prevents condensations on the closures and thus avoids a possible contamination in the cooling unit
- Temperature resistant -80 degrees / +100 degrees
- Alpha Numeric Coding (1.5ml, 4ml)
- Unbreakable polypropylene bottom and lid
- Stackable
- Chemically resistant and fairly robust
- Autoclavable

PP Storage Boxes for 1.5ml Sample Vials or 2ml Shell Vials



Art. No.	Description	PU
Z-VIA-12212420	PP Storage Box, blue, with cover (130 x 130 x 45mm), 81 cavities, with alphanumeric coding of all 4 margins as well as the cavities at the bottom	1
Z-VIA-12212421	PP Storage Box, orange, with cover (130 x 130 x 45mm), 81 cavities, with alphanumeric coding of all 4 margins as well as the cavities at the bottom	1
Z-VIA-12212422	PP Storage Box, pink, with cover (130 x 130 x 45mm), 81 cavities, with alphanumeric coding of all 4 margins as well as the cavities at the bottom	1
Z-VIA-12212423	PP Storage Box, yellow, with cover (130 x 130 x 45mm), 81 cavities, with alphanumeric coding of all 4 margins as well as the cavities at the bottom	1
Z-VIA-12212424	PP Storage Box, green, with cover (130 x 130 x 45mm), 81 cavities, with alphanumeric coding of all 4 margins as well as the cavities at the bottom	1
Z-VIA-12212425	PP Storage Box, transparent, with cover (130 x 130 x 45mm), 81 cavities, with alphanumeric coding of all 4 margins as well as the cavities at the bottom	1

PP Storage Box for 4ml Sample Vials or 4ml Shell Vials



Art. No.	Description	PU
Z-VIA-15212426	PP Storage Box, red, with cover (130 x 130 x 52mm), 49 cavities, with alphanumeric coding at the cavities	1

PP Storage Box for 5ml, 10ml and 20ml Headspace Vials



Art. No.	Description	PU
Z-VIA-24212427	PP Storage Box, blue, with cover (130 x 130 x 102mm), 25 cavities	1

PP Storage Boxes for 20ml, 30ml and 40ml EPA Vials



Art. No.	Description	PU
Z-VIA-28212428	PP Storage Box for 20ml EPA-Vials, violet, with cover (130 x 130 x 102mm), 16 cavities	1
Z-VIA-28212429	PP Storage Box for 30ml and 40ml EPA-Vials, violet, with cover (130 x 130 x 105mm), 10 cavities	1

15. Crimping Tools

Manual Crimping Tools



- Easy and convenient handling
- Chemical resistant surface finish especially designed for the application in labs
- Hardened crimping jaws made of a special alloy that guarantees long life
- Adjustable in crimping pressure limitation by a screw in the handle
- Additionally 11mm, 13mm and 20mm crimpers are adjustable in crimping height by screwing up or down the pressure block in the crimping head with a hexagon key

Manual Crimpers

Art. No.	Description	PU
Z-VIA-08060005	Crimper for 8mm Crimp Caps	1
Z-VIA-11060006	Crimper for 11mm Crimp Caps	1
Z-VIA-13060007	Crimper for 13mm Crimp Caps	1
Z-VIA-20060008	Crimper for 20mm Crimp Caps	1

Manual Decappers

Art. No.	Description	PU
Z-VIA-08070001	Decapper for 8mm Crimp Caps	1
Z-VIA-11070002	Decapper for 11mm Crimp Caps	1
Z-VIA-13070003	Decapper for 13mm Crimp Caps	1
Z-VIA-20070004	Decapper for 20mm Crimp Caps	1

Cleanroom Crimping Tools



Cleanroom Crimping Tools are made entirely of stainless steel for maximum durability during dry heat sterilization or autoclaving

- Ensure sample integrity in cleanroom environments
- The crimping / decapping mechanism is corrosion and heat resistant while the stainless steel construction removes the need for any protective coating on the handle or crimping head
- Can withstand repeated sterilization for cleanroom use without the risk of damaging the tool
- Available in 11mm, 13mm and 20mm sizes
- Crimping tools are adjustable in crimping pressure and height to offer optimal crimping results on varying vial styles

Art. No.	Description	PU
Z-VIA-11062225	Stainless steel Crimper for 11mm Crimp Caps	1
Z-VIA-13062227	Stainless steel Crimper for 13mm Crimp Caps	1
Z-VIA-20062229	Stainless steel Crimper for 20mm Crimp Caps	1
Z-VIA-11072226	Stainless steel Decapper for 11mm Crimp Caps	1
Z-VIA-13072228	Stainless steel Decapper for 13mm Crimp Caps	1
Z-VIA-20072230	Stainless steel Decapper for 20mm Crimp Caps	1

15. Crimping Tools

Pneumatic Hand-held Crimping Tool



- Crimping and decapping tool, operated by compressed air (6.2bar = 90psi minimum net pressure)
- Easy handling; just by pushing the button the vial is crimped or decapped
- Interchangeable Crimping and Decapping Heads for crimping and decapping in various sizes
- Adjustable, constant and reproduceable crimping pressure
- Space-saving installation with a balancer above the working bench
- Ergonomical handling, as the balancer compensates the weight of the pneumatic crimper and facilitates steady and precise crimping
- Inlet supply connector G ¼" thread (female); connection to be provided by customer
- The pneumatic crimping tool can be delivered with stand and foot switch or with hanging device and trigger in the handle
- CE mark of conformaty

Art. No.	Description	PU
Z-VIA-0000089	Pneumatic Basic Crimping Tool, including pressure regulator, safety valve and Nylon (PA) twisted hose	1
Z-VIA-0000120	Hanging device with balancer	1
Z-VIA-00001898	Stand with foot switch for pneumatic basic crimping tool	1

Crimping Heads for Pneumatic Hand-held Crimping Tool

Art. No.	Description	PU
Z-VIA-08060149	Crimping Head for 8mm Crimp Caps	1
Z-VIA-11060150	Crimping Head for 11mm Crimp Caps	1
Z-VIA-13060134	Crimping Head for 13mm Crimp Caps	1
Z-VIA-20060088	Crimping Head for 20mm Crimp Caps	1

Decapping Heads for Pneumatic Hand-held Crimping Tool

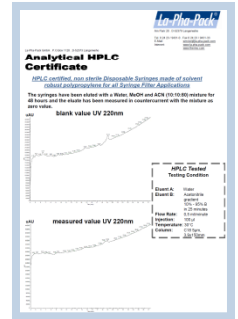
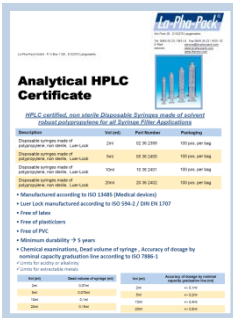
Art. No.	Description	PU
Z-VIA-08070153	Decapping Head for 8mm Crimp Caps	1
Z-VIA-11070107	Decapping Head for 11mm Crimp Caps	1
Z-VIA-13070154	Decapping Head for 13mm Crimp Caps	1
Z-VIA-20070155	Decapping Head for 20mm Crimp Caps	1







HPLC Certified Polypropylene Disposable Syringes

HPLC certified, non sterile disposable syringes made of solvent robust polypropylene for all syringe filter applications





- Each manufactured batch is HPLC controlled and supplied with an appropriate certificate. The certificate clearly states column and other method conditions being used for the test
- Available with Luer-Lock and Luer slip connections
- Syringes manufactured according to ISO 13485 (Medical devices)
- No rubber plunger seals or silicone lubricants that may cause sample contamination
- Free of latex, free of plasticizers, free of PVC
- Safe functional back-stop feature
- Easy to read permanent graduations
- All Luer-Lock syringes have centered tips
- Packed with 100 pieces per bag



HPLC Certified Polypropylene Disposable Syringes with Luer-Lock

			
Z-VIA-02362399	Z-VIA-05362400	Z-VIA-10362401	Z-VIA-20362402
2ml	5ml	10ml	20ml
Disposable syringes, non sterile, Luer-Lock	Disposable syringes, non sterile, Luer-Lock	Disposable syringes, non sterile, Luer-Lock	Disposable syringes, non sterile, Luer-Lock

HPLC Certified Polypropylene Disposable Syringes with Luer-Slip

			
Z-VIA-02362403	Z-VIA-05362404	Z-VIA-10362405	Z-VIA-20362406
2ml	5ml	10ml	20ml
Disposable syringes, non sterile, Luer-Slip	Disposable syringes, non sterile, Luer-Slip	Disposable syringes, non sterile, Luer-Slip	Disposable syringes, non sterile, Luer-Slip

17. Abbreviations and Explanations

DW	Deep Well (Type of 96 Position Block with round inlet holes)
EPA	Environmental Protection Association (American regulatory authority that sets up certain standards and regulations for environmental analysis)
EPDM	Ethylene Propylene Diene Monomer
GC	Gas Chromatography
GMF	Glass Microfibre
HPLC	High Performance Liquid Chromatography
HS	Headspace
MTP	Microtiter (Type of 96 Position Block which is very flat and has a low volume) MTRS Micro-Tube-Rack-System (Type of 96 Position Block with cover that is more a kind of rack with round inlet holes)
ND	Nominal Diameter
NR	Natural Rubber

PE	Polyethylene
PP	Polypropylene
PTFE	PolyTetraFluoroEthylene
PVDF	Polyvinylidene fluoride
RR	RedRubber
SPME	Solid Phase Micro Extraction
SQW	Square Well (Type of 96 Position Block with square inlets)
TEF	Tefzel (special type of PTFE which is a very thin casted Teflon)
TPX	TPX (Brand name of a Methylpentene Copolymer)

Cleanroom class 10,000

Cleanroom class 10,000 represents a hygienic standard often found in the pharmaceutical industry. These special rooms have certified conditions of 10,000 particles per m³ air maximum. To have a comparison: The environment in a normal room contains millions of particles. The rooms are regularly measured by external authorities to guarantee the specifications. Such rooms have no windows (air-conditioned) and only material with low particle abrasion is allowed there (Plastic instead of wood or cardboard, etc.). The people have to wear special clothing.

Headspace Cap

A Headspace Cap is a safety cap for Headspace analysis, which should avoid explosion of the vial in case of too much internal pressure. The Headspace Cap has special score-lines with bridges that break open at an inner pressure of 3.0 ± 0.5 bar. Thus the excess pressure escapes and the risk of vial explosion is avoided.

Micro-Insert

A Micro-Insert in contrast to a Micro-Vial cannot be sealed on its own. It is neckless and always has to be used within a vial. The diameter of the Micro-Insert is depending on the size of the vial opening. A Micro-Insert reduces the volume, so that a needle is capable of picking up even smallest sample quantities. The longer the top of an Insert the more the volume can be reduced.

Seal

A Seal is an already assembled closure consisting of a cap and a liner.

Durometer

Durometer is the hardness of a liner and is expressed in ° shore. The higher the grade the harder the liner; the lower the grade, the softer the liner. The softest liner is 45° shore A and the hardest 70° shore A. Besides the thickness of a liner the hardness is an essential indication when deciding which liner is suitable for the penetration of a certain type of needle (fragile needles, thin or thick needles, sharp or dull needles, etc.)

Headspace Neck (bevelled top)

A Headspace Neck or Headspace Vial with bevelled top has a crimp neck whose outer edges are bevelled. In contrast to a flat DIN crimp neck the liner only has a very small surface to sit on which is a disadvantage regarding tightness. Headspace Necks or bevelled crimp necks are only necessary when using the patented PerkinElmer Pressure Release Seal consisting of an Aluminium Cap with a slit, a metal star washer plate and a liner with ears. This system only releases excess pressure reliably when using a vial with such a top.

Micro-Vial

Micro-Vials can be sealed, but often need an adapter to run in the autosampler. In case they have a conical bottom, they cannot stand by themselves.

Pre-cut septa

With slitted liners used in HPLC the complete Septa is cut through, in order to offer a penetration aid to the needle. In contrast to that pre-cut septa are only cut through the Silicone layer, but not through the PTFE giving the same support to the needle without the risk of concentration changes or contaminations.

17. Abbreviations and Explanations

Seal

A Seal is an already assembled closure consisting of a cap and a liner.

virginal (PTFE)

Untreated PTFE

Silanized

Silanized vials are used to reduce the adsorption of polar compounds onto the surface of the glass container. Some compounds like amino-acids, proteins or phenols tend to react with the glass, even if – as is common for chromatography – 1st hydrolytic class glass is used. Through the silanization process the glass surface is deactivated and so possible reactions between the polar compounds and the glass are eliminated.

18. Quick-Reference-Charts

Application Areas:

HPLC

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HS

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Instrument Company	Dionex	AS 50	Summit ASI 110, Micro-Tray (192 Pos.)	Summit ASI 110, Analytical-Tray (117 Pos.)	Summit ASI 110, Semiprep.-Tray (63 Pos.)	Famos (LC Packings/Dionex)	UltiMate Analytical, cylindrical WPS-3000 SL, 120 (3x40) Pos. Rack (2m)	UltiMate Analytical, conical, WPS-3000 SL, 120 (3 x 40) Pos. Rack (1.1m = 2m w/ Inserts)	UltiMate Micro conical WPS-3000 SL, 120 (3 x 40) Pos. Rack (25µl)	UltiMate Semi-preparative WPS-3000 SL, 66 (3 x 22) Pos. Rack (4m)	UltiMate Nano/Geo WPS-3000 SL, 216 (3 x 72) Pos. Rack (1.2m)	ASE 200	Instrument Company	Spark	Marathon Basic, Standard 96 Pos. Tray	Marathon Basic Prep, King Size 48 Pos. Tray	Midas, Standard 84 Pos. Tray	Midas, Large Capacity 96 Pos. Tray	Midas, Large Volume 24 Pos. Tray	Triathlon, Standard 96 Pos. Tray	Triathlon, LSV 72 Pos. Tray	Triathlon, Super-LSV 32 Pos. Tray	Triathlon, Micro 160 Pos. Tray	Endurance 48 Pos. Tray	Promis	SPH 125	
Crimp Neck Vials ND8 and Seals	ZVIA-08090845/08090953	ch. 1/page 8	X	X							X		ZVIA-08090405/08090406/08090305/08090258/08091080	ch. 1/page 8													
ZVIA-08090276/08090606	ch. 1/page 8	X	X								X		ZVIA-08030451/08031935/08032042/08030884/08030599/08030249/08030113/08081675	ch. 1/page 8													
Crimp Neck Vials ND11 and Seals	ZVIA-11090356/11090476/11090477/11090619/11090921/11091956/11141190/11141656	ch. 2/page 9	X	X		X	X						ZVIA-11090415	ch. 2/page 9	X	X	X	X	X	X							
ZVIA-11090415	ch. 2/page 9												ZVIA-11090931	ch. 2/page 9													
ZVIA-11030300/11030247	ch. 2/page 10	X	X	X	X	X	X	X	X	X	X		ZVIA-11090619/11090921/11091956/11141190/11141656	ch. 2/page 9	X	X	X	X	X								
ZVIA-11030464	ch. 2/page 10	X	X	X	X	X	X	X	X	X	X		ZVIA-06090357/06090669	ch. 2/page 9	X	X	X	X	X	X							
Screw Neck Vials ND8 and Seals	ZVIA-11090210/11090259/11090419/11090382	ch. 3/page 11	X	X		X	X						ZVIA-11030209/11030300/11030900/11031875/11030885/11030588/11030247/11030196/11081676	ch. 2/page 10	X	X	X	X	X								
ZVIA-11090417	ch. 3/page 11												ZVIA-11090417	ch. 3/page 11	X	X	X	X	X								
ZVIA-08150293/08150709/08150886	ch. 3/page 11	X	X	X	X	X	X	X	X	X	X		ZVIA-11090210/11090259/11090419/11090382	ch. 3/page 11	X	X	X	X	X								
ZVIA-08151449	ch. 3/page 11	X	X	X	X	X	X	X	X	X	X		ZVIA-05090129/05090269	ch. 3/page 11	X	X	X	X	X								
Short Thread Vials ND9 and Seals	ZVIA-11090500/11090519/11090520/11141189/111141655/11090999/11091957/11090620	ch. 4/page 12	X	X		X	X						ZVIA-08150460/08151965/08150293/08150294/08150709/08150886	ch. 3/page 11	X	X	X	X	X								
ZVIA-11191205/11191516/11190932/11191216/11191706	ch. 4/page 12	X	X	X	X	X	X						ZVIA-11090500/11090519/11090520/11090620/11141189/11141655/11090999/11091957	ch. 4/page 12	X	X	X	X	X								
ZVIA-09150838/09041533	ch. 4/p. 13-14	X	X	X	X	X	X						ZVIA-06090357/06090669	ch. 4/page 12	X	X	X	X	X								
ZVIA-09150869/09041534/09152016	ch. 4/p. 13-14	X	X	X	X	X	X						ZVIA-11191205/11191516/11190932/11191216/11191706	ch. 4/page 12	X	X	X	X	X								
Screw Neck Vials ND10 and Seals	ZVIA-10090743/10091196/10091197	ch. 5/page 15	X			X	X						ZVIA-09150982/09150867/09151819/09150838/09150868/09150869/09152016 (also available with caps in other colours)	ch. 4/p. 13-14	X	X	X	X	X								
ZVIA-10151257/10151328	ch. 5/page 15	X				X	X						Snap Ring Vials ND11, Micro-Inserts and Seals	ZVIA-11090627/11090644/11090645/11141190/11141656	ch. 6/page 16	X	X	X	X	X							
Snap Ring Vials ND11 and Seals	ZVIA-11090627/11090644/11090645/11141190/11141656	ch. 6/page 16	X	X		X	X						ZVIA-11190933/11191217/11191707	ch. 6/page 16	X	X	X	X	X								
ZVIA-11190933/11191217/11191707	ch. 6/page 16												ZVIA-11151267/11151856/11151817/11151151/11151854/11151268/11151857/11151269/11151858/11152047/11152048	ch. 6/page 17	X	X	X	X	X								
ZVIA-11151151/11151854	ch. 6/page 17	X	X	X	X	X	X						ZVIA-11191205/11191516/11190932/11191216/11191706	ch. 4/page 12	X	X	X	X	X								
ZVIA-11151269/11151858/11152047/11152048	ch. 6/page 17	X	X	X	X	X	X						ZVIA-09150982/09150867/09151819/09150838/09150868/09150869/09152016 (also available with caps in other colours)	ch. 4/p. 13-14	X	X	X	X	X								
Screw Neck Vials ND13 and Seals	ZVIA-13090222/13091335/13090280/13091336	ch. 7/page 18	X			X	X						Screw Neck Vials ND11, Micro-Insert and Seals	ZVIA-11140544/11140545/06090357	ch. 8/page 19					X							
ZVIA-13150815/13151293	ch. 7/page 18	X	X	X		X	X						ZVIA-13090222/13091335/13090280/13091336	ch. 7/page 18													
Crimp Neck Vials ND20 and Seals	ZVIA-20091405/20091691	ch. 10/page 20				X	X	X	X	X	X		Screw Neck Vials ND13, Micro-Insert and Seals	ZVIA-13090222/13091335/13090280/13091336	ch. 7/page 18												
ZVIA-20030142/22151334/22151869	ch. 10/page 21/ Upon request!					X	X	X	X	X	X		ZVIA-13150456/13150815/13151293/13150292	ch. 7/page 18													
Screw Neck Vials ND24 and Seals	ZVIA-24090402/24090928	ch. 12/page 23											Headspace Vials and Seals ND20/ND18	ZVIA-20091405/20091691	ch. 10/page 20			X	X								
ZVIA-24091089/24091090	ch. 12/page 23												ZVIA-20090342	ch. 10/page 20			X	X									
ZVIA-24040842/24040841	ch. 12/page 23												ZVIA-20030059/20030030	ch. 10/page 21			X	X									
ZVIA-24151163/24151540	ch. 12/page 23												ZVIA-20030142/20030901	ch. 10/page 21			X	X	X								
ZVIA-24080403/24080592	ch. 12/page 23																										
ZVIA-22021108	ch. 12/page 23																										

Possibly ZVIA-08090276/08090606 can be used in combination with ZVIA-50130147 in 4ml Screw Neck Vials with appropriate Screw Seals in Triathlon, LSV 72 Pos. Tray.

18. Quick-Reference-Charts

HPLC

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Instrument Company	Agilent	Agilent 1050 (34 Pos. Tray)	Agilent 1090	Agilent 1090 (34 Pos. Tray)	Agilent 1200	Agilent 79855(A)	CTC HTS+HTC PAL	Agilent 5880	Agilent 5890	Agilent 6850 22 Pos. Tray	Agilent 7673A	Agilent 7683A	CTC GC PAL	CTC Combi PAL	Agilent G1888A	Agilent H5769A	Agilent 7695A	Tekmar SOLATEk 72	Tekmar AQUATEk 70
Crimp Neck Vials ND8 and Seals																			
ZVIA-08090276/08090606	ch. 1/page 8	X	X								X	X	X						
ZVIA-08090305/08090258/08090405/08090406	ch. 1/page 8																		
ZVIA-08091080	ch. 1/page 8										X	X							
ZVIA-08030451/08032042/08030249/08030113	ch. 1/page 8	X	X								X	X	X						
96 Pos. Block Systems																			
ZVIA-8200897	Upon request!			X	X		X												
Crimp Neck Vials ND11, Micro-Inserts and Seals																			
ZVIA-11090356/11090476/11090477/11090619/11090921/11091956/11141190/11141656	ch. 2/page 9	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-06090669/06090866/06090865/06091343	ch. 2/page 9	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-11030209/11030301/11030302/11030303/11030304	ch. 2/page 10	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-11031875/11031984/11031985/11031986/11031987	ch. 2/page 10	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-11030247/11030196	ch. 2/page 10	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-11030318/11030332	ch. 2/page 10																		X
Short Throat Vials ND9, Micro-Inserts and Seals																			
ZVIA-11090500/11090519/11090520/11090620/11090999/11141189/11141655	ch. 4/page 12	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ZVIA-06090669/06090866/06090865/06091343	ch. 4/page 12	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-09151907	ch. 4/p. 13-14																		X
ZVIA-09150867/09151819(also available with caps in other colours)	ch. 4/p. 13-14	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-09152021/09152016/09150869/09041534	ch. 4/p. 13-14	X	X	X	X	X	X	X	X	X	X	X	X	X					
ZVIA-09150838/09150868/09041533(also available with caps in other colours)	ch. 4/p. 13-14	X	X	X	X	X	X	X	X	X	X	X	X	X					
Snap Ring Vials ND11, Micro-Inserts and Seals																			
ZVIA-11090627/11090644/11090645/11141190/11141656	ch. 6/page 16	X	X	X	X	X	X												
ZVIA-06090669/06090866/06090865/06091343	ch. 6/page 16	X	X	X	X	X	X												
ZVIA-11151267/11151856/11151817/11081676	ch. 6/page 17	X	X	X	X	X	X												
ZVIA-11151269/11151858/11152047/11152048	ch. 6/page 17	X	X	X	X	X	X												
ZVIA-11151151/11151854/11151268/11151857	ch. 6/page 17	X	X	X	X	X	X												
Screw Neck Vials and Seals ND13																			
ZVIA-13090222/13090280/13091335/13091336	ch. 7/page 18																		X
ZVIA-13150815/13150456	ch. 7/page 18																		X
Headspace Vials and Seals ND20/ND18																			
ZVIA-20090795/20090796	ch. 10/page 20																		X
ZVIA-20030901/20030828/20030030/20030264	ch. 10/page 21																		X
ZVIA-20091405/20091691/20090873/20091690	ch. 10/page 20																		X
ZVIA-20030975/20031536	ch. 10/page 21																		X
ZVIA-18091307/18091311/18091306/18091310	ch. 11/page 22																		X
ZVIA-18031414	ch. 11/page 22																		X
Screw Neck Vials ND24 and Seals																			
ZVIA-24090402/24090928	ch. 12/page 23																		X
ZVIA-24040842/24040841	ch. 12/page 23																		X
ZVIA-24151163/24151540	ch. 12/page 23																		X
ZVIA-24080403/24080592	ch. 12/page 23																		X
ZVIA-22021108	ch. 12/page 23																		X

Instrument Company	CTC	LC PAL (216 Pos)	HTX PAL (760 Pos. Tray) / HTS PAL (200 Pos. Tray) / HTC PAL (200 Pos. Tray)	HTX PAL (54/98 Pos. Tray) / HTS PAL (54/98 Pos. Tray) / HTC PAL (54/98 Pos. Tray)	HTX PAL (32 Pos. Tray) / HTS PAL (32 Pos. Tray) / HTC PAL (32 Pos. Tray)	A 200 LC	COMBI PAL (200 Pos. Tray) / GC PAL (200 Pos. Tray)	COMBI PAL (98 Pos. Tray) / GC PAL (98 Pos. Tray)	COMBI PAL SPME mode (98 Pos. Tray)	A 200 S	COMBI PAL (32 Pos. Tray) / GC PAL (32 Pos. Tray)	COMBI PAL SPME mode (32 Pos. Tray)	HS 500
Crimp Neck Vials ND8 and Seals													
ZVIA-08090276/08090606	ch. 1/page 8			X				X					
ZVIA-08090405/08090406/08090305/08090258	ch. 1/page 8		X				X	X					
ZVIA-08030249/08030113	ch. 1/page 8		X				X	X	X				
Crimp Neck Vials ND11, Micro-Inserts and Seals													
ZVIA-11090356/11090476/11090477/11090619/11090921/11091956	ch. 2/page 9	X		X			X	X	X				
ZVIA-06090357/06090669/06090666/06090865	ch. 2/page 9	X		X			X	X	X				
ZVIA-11030247/11030196	ch. 2/page 10	X		X			X	X	X				
ZVIA-11030318/11030332	ch. 2/page 10											X	
Screw Neck Vials ND8, Micro-Inserts and Seals													
ZVIA-11090210/11090259/11090419/11090382/11090417	ch. 3/page 11	X		X			X						
ZVIA-05090129/05090269/05091674/05090968	ch. 3/page 11	X		X			X						
ZVIA-08150293/08150294/08151449	ch. 3/page 11	X		X			X						
Short Throat Vials ND9, Micro-Inserts and Seals													
ZVIA-11090500/11090519/11090520/11090620/11141189/11141655/11090999/11091957	ch. 4/page 12	X		X			X	X	X				
ZVIA-06090357/06090669/06090866/06090865	ch. 4/page 12	X		X			X	X	X				
ZVIA-11191205/11191516/11190932/11191216/11191021/11191706	ch. 4/page 12	X		X			X					X	
ZVIA-09151907	ch. 4/p. 13-14												X
ZVIA-09152021/09152016	ch. 4/p. 13-14	X		X			X						
ZVIA-09150481/09150838/09151178/09151572/09150480/09150868/09151177/09151571(also available with caps in other colours)	ch. 4/p. 13-14	X		X			X						X
ZVIA-09150852/09150869/09151179/09151669(also available with caps in other colours)	ch. 4/p. 13-14	X		X			X						X
ZVIA-09082006	ch. 4/p. 13-14												X
Screw Neck Vials ND10, Micro-Inserts and Seals													
ZVIA-10090743/10091196/10091197	ch. 5/page 15	X		X			X						X
ZVIA-06090357/06090669/06090866/06090865	ch. 5/page 15	X		X			X						X
ZVIA-10151257/10151328/10151258	ch. 5/page 15	X		X			X						X
Snap Ring Vials ND11, Micro-Inserts and Seals													
ZVIA-11090627/11090644/11090645/11141190/11141656	ch. 6/page 16	X		X			X						
ZVIA-11190933/11191217/11191022/11191707	ch. 6/page 16	X		X			X						
ZVIA-06090357/06090669/06090866/06090865	ch. 6/page 16	X		X			X						
ZVIA-11081676	ch. 6/page 17	X		X			X						
ZVIA-11152045/11152046/11152047/11152048	ch. 6/page 17	X		X			X						
ZVIA-11150637/11150636/11150650/11151852/11151851/11151853/11151151/11151268/11151269/11151854/11151857/11151858(also available with caps in other colours)	ch. 6/page 17	X		X			X						
Headspace Vials and Seals ND20/ND18													
ZVIA-20091405/20091691/20090873/20091690	ch. 10/page 20												X
ZVIA-20030975/20031536	ch. 10/page 21												X
ZVIA-20030665	ch. 10/page 21												X
ZVIA-18091307/18091311/18091306/18091310	ch. 11/page 22												X
ZVIA-18031578/18031309/18031414/18031416	ch. 11/page 22												X
Vials and Seals ND20/ND18 only for SPME													
ZVIA-18091307/18091311/18091306/18091310	ch. 11/page 22												X
ZVIA-18032063	ch. 11/page 22												X
ZVIA-18031578/18031309/18031414	ch. 11/page 22												X
ZVIA-20091232	ch. 10/page 20												X
ZVIA-20031246/20031264	ch. 10/page 21												X
Wash Vials ND20 and Seals													
ZVIA-20091822	Upon request!	X	X	X	X	X	X	X	X	X	X	X	X
ZVIA-22151865	Upon request!	X	X	X	X	X	X	X	X	X	X	X	X
ZVIA-22151824	Upon request!	X	X	X	X	X	X	X	X	X	X	X	X
ZVIA-20091405	ch. 10/page 20	X	X	X	X	X	X	X	X	X	X	X	X
ZVIA-22151334	Upon request!	X	X	X	X	X	X	X	X	X	X	X	X

18. Quick-Reference-Charts

HPLC

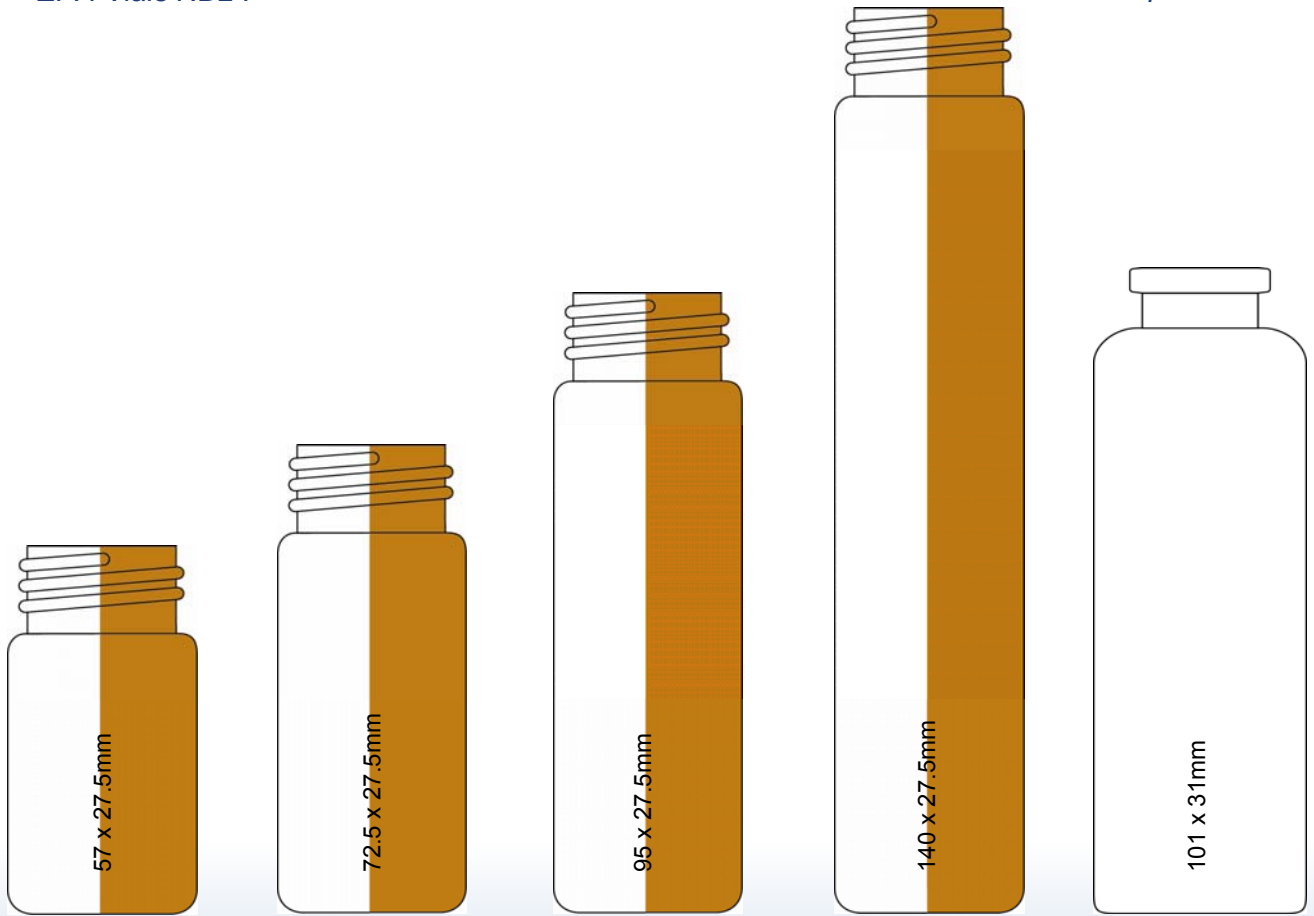
GC

HS

TOC

Instrument Company	Instrument	LC2010C + LC-2010A 350 Pos. Tray	LC2010C + LC-2010A 140 Pos. Tray	LC2010C + LC-2010A 120 Pos. Tray	SIL-2MS	SIL-6A	SIL-6B/SIL-7A/SIL-8A/SIL-9A	SIL-10A/SIL-10AF/SIL-10AP/SIL-10AL/SIL-10AL-100 Pos.	SIL-10A/SIL-10AF/SIL-10AP/SIL-10AL/SIL-10AL-180 Pos.	SIL-10A/SIL-10AF/SIL-10AP/SIL-10AL/SIL-10AL-100 Pos.	SIL-10ADbp	SIL-10HTA / SIL-10HTC 350 Pos. Tray	SIL-10HTA / SIL-10HTC 140 Pos. Tray	SIL-10HTA / SIL-10HTC 100 Pos. Tray	SIL-20A (Prominence) 115 Pos. Tray	SIL-20A/SIL-20AC (Prominence) 125 Pos. Tray	SIL-20A/SIL-20AC (Prominence) 50 Val. Tray	AOC-20/AOC-20b/AOC-20c 150 Pos. Tray	AOC-20/AOC-20b/AOC-20c 96 Pos. Tray	AOC-17	AOC-14 / 1400	AOC-9000	HT200H	AOC-5000	AS1-V		
Crimp Neck Vials NDS and Seals																											
ZVIA-	08090276/08090606	ch. 1/page 8					X	X																			
ZVIA-	08090305/08090258/08090405/08090406	ch. 1/page 8																									
ZVIA-	08030884/08030249/08030113/08031156/08081675 (only HPLC)	ch. 1/page 8				X	X			X																	
Crimp Neck Vials ND11, Micro-Inserts and Seals																											
ZVIA-	11090356/11090476/11090477	ch. 2/page 9	X		X	X	X	X											X		X	X	X				
ZVIA-	11090415/11090921/11091956/11090619/11141190/11141656	ch. 2/page 9	X		X	X	X	X				X	X						X		X	X	X				
ZVIA-	06090357/06090669/06090865/06090866	ch. 2/page 9	X		X	X	X	X				X	X						X		X	X	X				
ZVIA-	11030300/11030885/11030588/11030247/11030464/11030339/11081676 (only HPLC)	ch. 2/page 10	X		X	X	X	X				X	X						X		X	X	X				
ZVIA-	11030318/11030332	ch. 2/page 10																									
Screw Neck Vials NDS and Micro-Inserts																											
ZVIA-	11090210/11090259/11090419/11090382/11090417	ch. 3/page 11	X		X	X	X	X				X	X						X		X	X					
ZVIA-	05090129/05090269/05090968/05091674	ch. 3/page 11	X		X	X	X	X				X	X						X		X	X					
Short Thread Vials ND9, Micro-Inserts and Seals																											
ZVIA-	11090500/11090519/11090520	ch. 4/page 12	X		X	X	X	X				X	X						X		X	X	X				
ZVIA-	11141189/11141655/11090999/11091957/11090620	ch. 4/page 12	X		X	X	X	X				X	X						X		X	X	X				
ZVIA-	06090357/06090669/06090865/06090866	ch. 4/page 12	X		X	X	X	X				X	X						X		X	X	X				
ZVIA-	09151907	ch. 4/p. 13-14																									
ZVIA-	11191205/11191516/11190932/11191216	ch. 4/page 12	X		X	X	X	X				X	X						X		X	X					
ZVIA-	09150838/09151178/09151332/09151572/09151527	ch. 4/p. 13-14	X		X	X	X	X				X	X						X		X	X					
ZVIA-	09150869/09151179/09151746/09151669/09151745/09041534	ch. 4/p. 13-14	X		X	X	X	X				X	X						X		X	X					
ZVIA-	09152021/09152016	ch. 4/p. 13-14	X		X	X	X	X				X	X						X		X	X					
ZVIA-	09041220/09041533	ch. 4/p. 13-14	X		X	X	X	X				X	X						X		X	X					
ZVIA-	09150982/09151337/09151539/09151668/09152015	ch. 4/p. 13-14	X		X	X	X	X				X	X						X		X	X					
Screw Neck Vials ND10, Micro-Inserts and Seals																											
ZVIA-	10090743/10091196/10091197	ch. 5/page 15	X		X	X	X	X				X	X						X		X	X					
ZVIA-	06090357/06090669/06090865/06090866	ch. 5/page 15	X		X	X	X	X				X	X						X		X	X					
ZVIA-	10151257/10150744/10151328 (only HPLC)	ch. 5/page 15	X		X	X	X	X				X	X						X		X	X					
ZVIA-	10080742+10020646	ch. 5/page 15	X		X	X	X	X				X	X						X		X	X					
Screw Neck Vials ND11, Micro-Inserts and Seals																											
ZVIA-	11090627/11090644/11090645	ch. 6/page 16	X		X	X	X	X				X	X						X		X	X					
ZVIA-	11141190/11141656	ch. 6/page 16	X		X	X	X	X				X	X						X		X	X					
ZVIA-	11190933/11191217	ch. 6/page 16	X		X	X	X	X				X	X						X		X	X					
ZVIA-	06090357/06090669/06090865/06090866	ch. 6/page 16	X		X	X	X	X				X	X						X		X	X					
ZVIA-	11150637/11151852/11151151/11151854/11151325/11152017/11151886	ch. 6/page 17	X		X	X	X	X				X	X						X		X	X					
ZVIA-	11152045/11152046/11152047/11152049	ch. 6/page 17	X		X	X	X	X				X	X						X		X	X					
ZVIA-	11150650/11151853/11151269/11151858/11151326/11151794/11151793	ch. 6/page 17	X		X	X	X	X				X	X						X		X	X					
Screw Neck Vials ND13, Micro-Insert and Seals																											
ZVIA-	13090222/13091335/13090280/13091336	ch. 7/page 18			X	X	X	X				X	X						X		X	X					
ZVIA-	40090146+50130147	ch. 7/page 18			X	X	X	X				X	X						X		X	X					
ZVIA-	13150887/13150815/13151293 (only HPLC)	ch. 7/page 18			X	X	X	X				X	X						X		X	X					
ZVIA-	13080166+12020168	ch. 7/page 18			X	X	X	X				X	X						X		X	X					
Shell Vials 1ml, 2ml and 4ml with Plug as well as Micro-Inserts																											
ZVIA-	08141168/08141169	ch. 8/page 19										X	X						X		X	X					
ZVIA-	11140544/11140545/06090357	ch. 8/page 19	X					X	X			X	X						X		X	X					
ZVIA-	15140548/15140562/06090651	ch. 8/page 19	X		X	X	X	X				X	X						X		X	X					
Headspace Vials and Seals ND20/ND18																											
ZVIA-	20090795	ch. 10/page 20																									
ZVIA-	20091409/20091691	ch. 10/page 20																									
ZVIA-	20090873/20091690	ch. 10/page 20																									
ZVIA-	20030975/20031536	ch. 10/page 21																									
ZVIA-	20030142/20030901	ch. 10/page 21																									
ZVIA-	22151334	Upon request!																									
ZVIA-	18091307/18091311/18091306/18091310	ch. 11/page 22																									
ZVIA-	18032063 (SPME)	ch. 11/page 22																									
ZVIA-	18031578/18031309/18031414/18031416/18031874	ch. 11/page 22																									
Screw Neck Vials ND24 and Seals																											
ZVIA-	24090402/24090928	ch. 12/page 23																									
ZVIA-	24040842/24040841	ch. 12/page 23																									
ZVIA-	24151163/24151540	ch. 12/page 23																									
ZVIA-	24080403/24080592	ch. 12/page 23																									
ZVIA-	22021108	ch. 12/page 23																									

19. 1:1 Drawings



Z-VIA-24090589
Z-VIA-24090927
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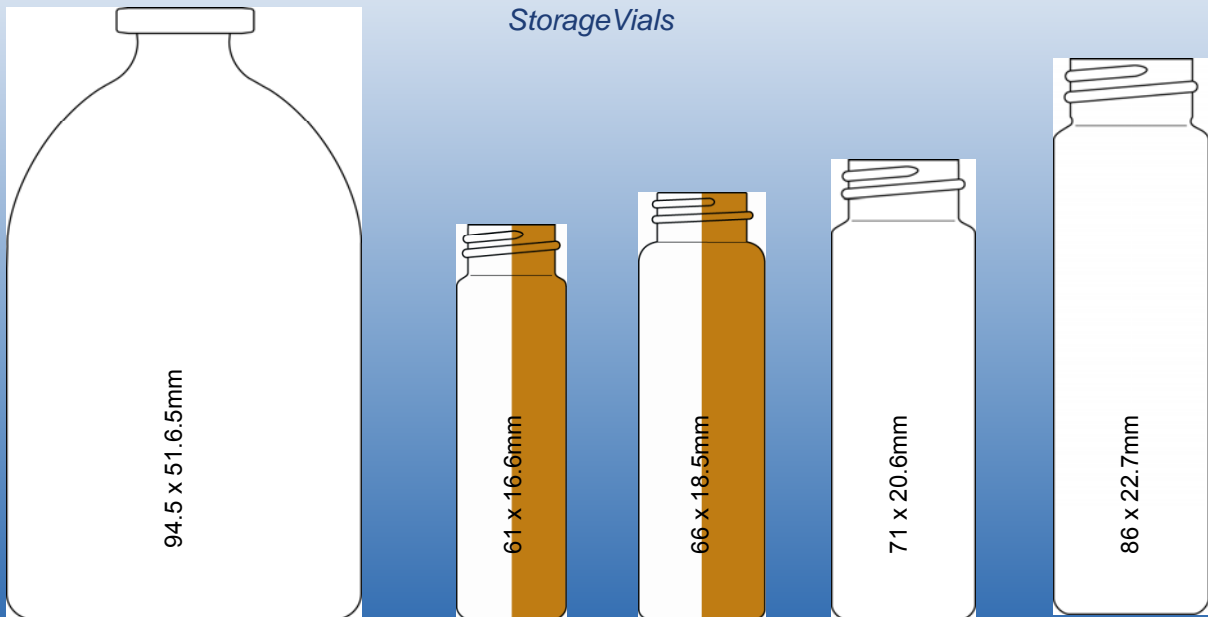
Z-VIA-24090839
Z-VIA-24090923
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Z-VIA-24090402
Z-VIA-24090928
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Z-VIA-24091089
Z-VIA-24091090
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Z-VIA-20090289
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Storage Vials



Z-VIA-20090343
Upon request!

Z-VIA-15091703
Z-VIA-15091774
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Z-VIA-15091657
Z-VIA-15091800
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Z-VIA-18091704
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Z-VIA-20091705
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Headspace ND 20

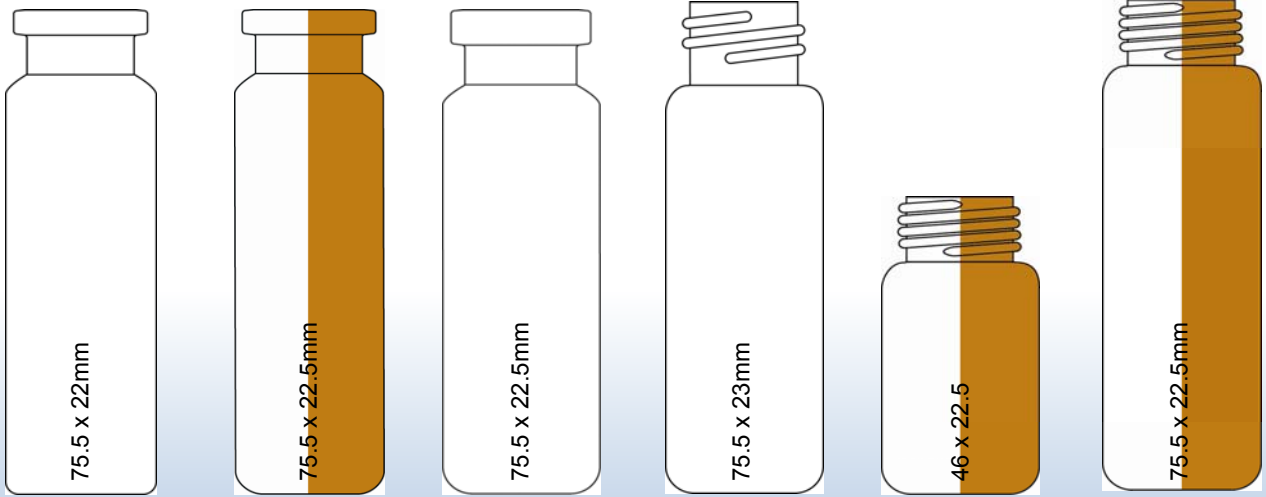
19. 1:1 Drawings



Z-VIA-20090342 Pages 20-21 Z-VIA-20090801 Pages 20-21 Z-VIA-20090802 Pages 20-21 Z-VIA-20091405 Z-VIA-20091691 Pages 20-21 Z-VIA-20090795 Pages 20-21 Z-VIA-20090297 Z-VIA-20091223 Pages 20-21 Z-VIA-20090440 Pages 20-21

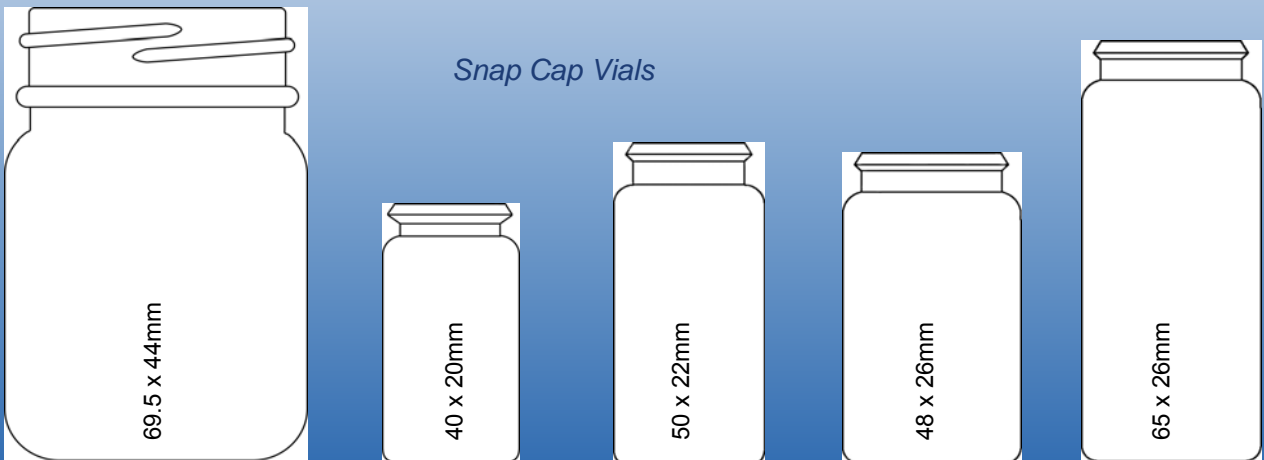
Headspace ND 20

Headspace ND 18



Z-VIA-20090796 Pages 20-21 Z-VIA-20090873 Z-VIA-20091690 Pages 20-21 Z-VIA-20091222 Pages 20-21 Z-VIA-18090864 Pages 20-21 Z-VIA-18091306 Z-VIA-18091310 Pages 20-21 Z-VIA-18091307 Z-VIA-18091311 Pages 20-21

Snap Cap Vials

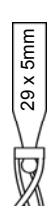
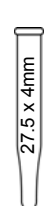
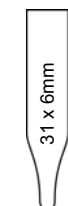


Z-VIA-40090678 Upon request! Z-VIA-18090906 Pages 19 Z-VIA-18090907 Pages 19 Z-VIA-20090784 Pages 19 Z-VIA-220909008 Pages 19

19. 1:1 Drawings

Micro-Inserts for wide opening

Micro-Inserts for small opening



Z-VIA-06091240
Pages
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Z-VIA-06090669
Pages
9,10,12-17

Z-VIA-06090865
Z-VIA-06091343
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Z-VIA-06090866
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Z-VIA-05090129
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Z-VIA-05090269
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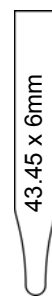
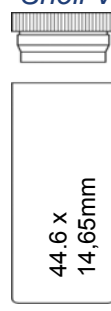
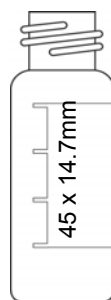
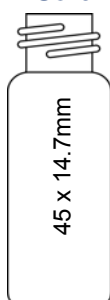
Z-VIA-05091674
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Z-VIA-05090279
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Screw Neck ND13

Shell Vials, 4ml (Insert)



Z-VIA-13090222
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Z-VIA-13090280
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Z-VIA-13091335
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Z-VIA-13091336
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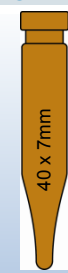
Z-VIA-40090146
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Z-VIA-15140548
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Z-VIA-06090651
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Crimp Neck ND8



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Z-VIA-08090606
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Z-VIA-08090284
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Z-VIA-08090845
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Z-VIA-08090953
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Z-VIA-08090405
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Z-VIA-08090406
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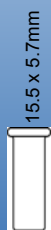
Z-VIA-08090305
Page 8

Z-VIA-08090258
Page 8

Z-VIA-08091080
Page 8

Inserts for 96 Position Block Systems (RITTER)

Shell Vials, 1ml (Insert)



Z-VIA-08090875
(MT-Plate)
Upon request!

Z-VIA-08090888
(DW-Block)
Upon request!

Z-VIA-08090909
(SQW-Block)
Upon request!

Z-VIA-08090903
(MTRS)
Upon request!

Z-VIA-08091081
(SQW/Sealm at)
Upon request!

Z-VIA-08140641
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Z-VIA-08141168
Z-VIA-08140513
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Z-VIA-08141169
Z-VIA-08140595
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Z-VIA-05090706
Page 19

19. 1:1 Drawings

Crimp Neck ND11

Z-VIA-11090356	Z-VIA-11090476	Z-VIA-11090477	Z-VIA-11090415	Z-VIA-11090486	Z-VIA-11090619	Z-VIA-11090921	Z-VIA-11090184	Z-VIA-11090831
Pages 9-10	Pages 9-10	Pages 9-10	Pages 9-10	Pages 9-10	Pages 9-10	Z-VIA-11091956 Pages 9-10	Pages 9-10	Pages 9-10

Snap Ring ND11

Z-VIA-11090627	Z-VIA-11090644	Z-VIA-11090645	Z-VIA-11141190	Z-VIA-11141656	Z-VIA-11190933	Z-VIA-11191217	Z-VIA-11191707	Z-VIA-11140544	Z-VIA-11140545
Pages 16-17	Pages 16-17	Pages 16-17	Z-VIA-11141266 Pages 16-17	Z-VIA-11141695 Pages 16-17	Z-VIA-11191022 Pages 16-17	Pages 16-17	Pages 16-17	Page 19	Page 19

Shell Vials, 2ml

Short Thread ND9

Z-VIA-11090500	Z-VIA-11090519	Z-VIA-11090520	Z-VIA-11090620	Z-VIA-11090999	Z-VIA-11141189	Z-VIA-11141655	Z-VIA-11190932	Z-VIA-11191216	Z-VIA-11191706	Z-VIA-11190932
Z-VIA-11091241 Pages 12-14	Pages 12-14	Z-VIA-11091242 Pages 12-14	Pages 12-14	Z-VIA-11091957 Pages 12-14	Z-VIA-11141265 Pages 12-14	Z-VIA-11141694 Pages 12-14	Z-VIA-11191021 Pages 12-14	Pages 12-14	Pages 12-14	Z-VIA-11191021 Pages 12-14

Screw Neck ND8, small opening

Screw Neck ND10, wide opening

Z-VIA-11090210	Z-VIA-11090259	Z-VIA-11090419	Z-VIA-11090382	Z-VIA-11090417	Z-VIA-10090743	Z-VIA-10091196	Z-VIA-10091197
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E-Mail

Date / Signature

Purchase Order

Please send samples

Enquiry

Personal / technical advice needed

Art. No.	Description	Quantity	Price EUR	Total EUR

Furthermore please send me the following information / documents:
