

Your specialist for chromatography and pharmaceutical packaging

Product Catalogue







New Products



9mm and 11mm Total Phthalat Free Closure System

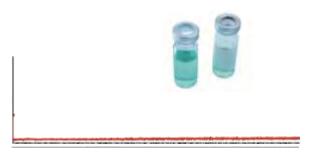
Screw Thread 9-425

• SV 09 1005 (page 16)

Crimp Neck ND11

• BV 11 0979 (page 23)





New variations of 1.1mm Microliter Vials with standard design 32 x 11.6mm, available as clear and amber glass versions

Screw Thread 8-425

• GW 08 1317, GW 08 1318 (page 10)

Screw Thread 9-425

• KG 09 1201, KG 09 1321 (page 13)

Screw Thread 10-425

• GW 10 1319, GW 10 1320 (page 18)

Crimp Neck ND11

• RR 11 1200, RR 11 1316 (page 20)

Snap Ring ND 11

• SR 11 1312, SR 11 1322 (page 25)



Vials with integrated Micro-Insert as modern sample container for Micro Sampling

Screw Thread 9-425

• KG 09 0682, KG 09 0683 (page 13)

Crimp Neck ND11

• RR 11 0680, RR 11 0681 (page 20)

Snap Ring ND 11

• SR 11 0684, SR 11 0685 (page 25)





Plastic insert with injection moulded polymer spring

Application:

Ion Chromatography, Atomic absorption and Capillary electrophoresis (CE ü+ CE/MS)

adaptable to any standard vial with dimensions 32 x 11.6mm, with wide opening
• ME 06 1174 (page 10, 13, 18)



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Company Profile

CHROMA GLOBE GbR was founded on November 15th, 2007.

The company's headquarters have been in Kreuzau since 2011, approx. 55 km west of Cologne.



The objective of the company is the production and distribution of high-quality laboratory and pharmaceutical packaging materials.

We aim to manufacture, sell high-quality laboratory and pharmaceutical products. As an independent, flexible, privately owned company managed by the owners, the company's goal is to quickly and reliably supply a worldwide customer base with innovative and high quality products at competitive prices.

Our customers are laboratory wholesalers, specialist dealers, manufacturers of analysis equipment, customers in the pharmaceutical industry, as well as laboratories and institutes.

Our range of products includes ...

- a wide scope of laboratory glass for laboratories in the chromatography and analysis technology:
 - Crimp and screw vials, micro inserts
 - septa of different materials, Silicone / PTFE, butyl / PTFE, Viton, PTFE, silicone / aluminum
 - crimp closures
 - plastic closures
 - flaring tools (manual, pneumatic and electric)
 - plastic bottles
 - Syringe filters for HPLC
- · for use mainly by pharmaceutical users:
 - Injection vials and infusion bottles
 - Injection stoppers, infusion stoppers and septa
 - crimp closures, plastic closures
 - flaring tools (manual, pneumatic and electric)
 - Syringe filters
 - Septa for laboratory closures (Schott screw caps GL16 GL45)

In order to optimize customer service and to increase the flexibility required by the market, the key products – sealing washers (septa), closures and flanging tools – are produced exclusively in-house.

Handling of the catalogue

- I. The product groups are sorted in ascending order of their nominal diameter
- II. Within a chapter you will find all articles that belong together. Starting with sample bottles, followed by matching micro inserts, as well as closures and, if available, caps and septa.

Services

Technical Support

- Autosampler Compatibility
- Cross-References
- > Application-Specific Questions

Sample Service

- Cost-free
- Upon request dispatch directly to the end user

Distribution Service

- > Shipping of standard items within 24 hours
- Upon request dispatch directly to the end user (neutral delivery)
- Customer-Specific Labelling
- > Stocking of annual call-off contracts

Product Trainings

- Product training either at the customer's site or in our company
- Introduction to the production processes of vials and seals

Product Catalogue Support

> Texts, tables, drawings and photos as electronic data files

Explanations

Cleanroom class 100.000

There are different standards of cleanroom classes globally established. When stated, our products are packed in clean rooms of the class ISO 7 or ISO 8 (acc. to ISO 14644-1) which is identical to the class 10.000 or 100K (acc. to US FED STD 209E) for particles ≥ 0.5 µm. Cleanroom classes represent a hygienic standard often found in the pharmaceutical industry. These special rooms have certified conditions for maximum particles per ft3 or m3 air. To have a comparison: The environment in a normal room contains billions of particles. The Cleanrooms 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.

Durometer

Durometer is the hardness of a liner and is expressed in $^\circ$ shore. The higher the grade the harder the liner; the lower the grade, the softer the liner. The softest liner is 35 $^\circ$ shore A and the hardest 70 $^\circ$ 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 (except for Pharma-Fix septa). Headspace Necks or bevelled crimp necks are only necessary when using the patented PerkinElmer Pressure Release Seal consisting of an Aluminum Cap with a slit, a metal star washer plate and a star-shaped liner. This system only releases excess pressure reliably when using a vial with such a top.

Explanations (Cont.)

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 MicroInsert 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.

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.

· Microliters Vial (optimised residual emptying)

Microliter-Vials can be closed independently and do not require an adapter for a safe stand due to their solid flat bottom with inner cone. The inner cone reduces the sample volume in such a way that a needle is still able to hold even small sample quantities. Functionally comparable to a sample vials with integrated or inserted micro insert, but the Micro-Liter vials holds about 5 times the sample volume of a micro insert.

Seal

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

Silanized

Silanized vials are used to reduce the adsorption of polar compounds onto the normally polar surface of the glass container. Some compounds like aminoacids, predeins or phenols tend to react with the OH-groups of 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.

1. Crimp Neck ND8

The vials are preferentially used on instruments of the following manufacturers: Agilent, Beckman, Carlo Erba, CTC, Fisons, PerkinElmer, Shimadzu, Thermo Scientific, VWR (Merck®)/Hitachi, etc. (Please have a look at the autosampler compatibility chart on pages 62-73 to see on which models they can be used).

Broad selection of Crimp Neck Vials ND8 available:

Crimp Neck Vials and Micro Vials ND8 can be closed with 8mm Aluminum Caps, 9mm PE-Caps or with 8mm Push-On Caps. However, Micro-Vials often need an adapter to run in the autosampler. They often have a conical bottom shape, so that they cannot stand by themselves, but need an adapter.

- · with different volumes
- with flat, round or conical bottom
- in clear or amber glass
- for almost all autosamplers



1.1 Crimp Neck Vials and Micro-Vials ND8

















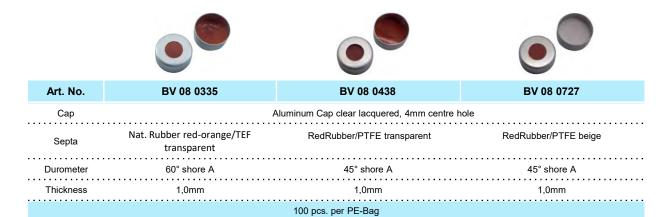
Suitable flanging tool you will find in the Chapter 17 on pages 47ff.

40		W	•		
RR 08 0331	RR 08 0332	RR 08 0317	RR 08 0333	RR 08 0334	
0.3ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1st hydrol. class, round bottom	0.2ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1st hydrol. class, conical	0.7ml Micro-Vial, 40 x 7mm, clear glass, 1st hydrol. class, conical	0.7ml Micro-Vial, 40 x 7mm, amber glass, 1st hydrol. class, conical	0.4ml Micro-Vial, 30 x 7mm, amber glass, 1st hydrol. class, conical	
R. vol. < 6 μl	R. vol. < 3 μl	R. vol. < 3 μl	R. vol. < 3 μl	R. vol. < 3 μl	
10 x 100 pcs, per PP-Box					

1.2 Aluminum Crimp Seals ND8

1.2.1 Natural Rubber/TEF and RedRubber/PTFE Seals

- > Temperature resistant from -40°C up to 120°C for Natural Rubber resp. up to 160°C for RedRubber.
- > Natural Rubber harder to penetrate with more fragmentation during penetration than RedRubber.
- > Natural Rubber ideal for multiple injections due to high resealability, but not as clean as the synthetic RedRubber.



1.2.2 Silicone/PTFE Seals

- ➤Temperature resistant from -60° C to 200° C
- >Preferably only for single injections
- ➤ Different hardnesses to meet the respective needle types

- Silicone septa coated on both sides for low particle formation during penetration
- > Cleaner than Natural Rubber or as RedRubber









Art. No.	BV 08 0324	BV 08 0753	BV 08 0522	BV 08 0523		
Сар	Cap Aluminum Cap clear lacquered, 4mm centre hole					
Septa	Silicone white/ PTFE red	Silicone cream/ PTFE red	PTFE red/Silicone white/PTFE red	Silicone white/ PTFE red, with slit		
Durometer	45° shore A	55° shore A	45° shore A	45° shore A		
Thickness	1,0mm	1,5mm	1,0mm	1,3mm		
100 pcs. per PE-Bag						

1.2.3 Other Crimp Seals

- >PTFE is very inert and temperature resistant, however, problems with leakage due to the inflexibility and thinness of the material
- >Only for single injections for non-critical HPLC analysis
- ➤Viton is resistant to a variety of corrosive organic substances; temperature resistant from -40°C to 240°C, main application in the petrochemical industry



2. Screw Neck Vials ND8

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

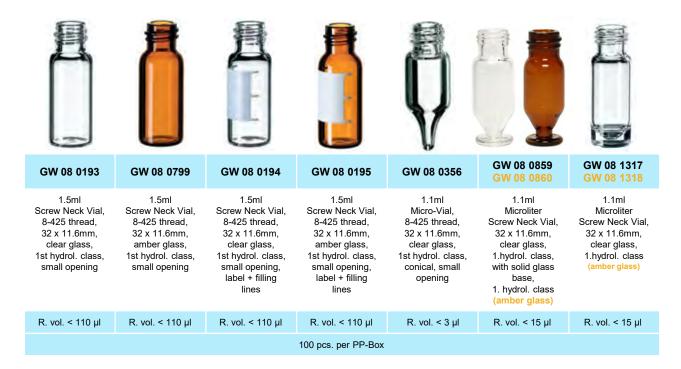
(Please have a look at the autosampler compatibility chart on pages 62 - 73 to see on which models they can be used)

Standard vials for GC and HPLC.

- Specially suitable for VWR (Merck®)/Hitachi instruments (Article GW 08 0193, GW 08 0799, ME 05 0289, SV 08 0657, SK 08 0287, SE 08 0018, SE 08 0076)
- · Broad range of Micro-Inserts.
- Screw Neck Vials (thread 8/425) with small opening requires Micro-Inserts with a diameter of 5mm.
- · Vials and seals also available as 2in1 KIT.



2.1 Screw Neck Vials ND8, small opening, 8-425 thread and Micro-Vials ND8



2.2 Micro-Inserts for Vials with small opening



2.3 PP Screw Seals ND8

- >Ready to use combination seals; no time consuming and "tricky" assembly.
- >Available with black or white screw caps with 8-425 thread.
- >Available as closed top screw seals or with centre hole.
- >Now available either with Natural Rubber or RedRubber as cost-effective seals.

2.3.1 Natural Rubber/TEF and RedRubber/PTFE Seals

- Natural rubber temperature resistant from -40°C to 120°C
- > RedRubber/PTFE from -40°C bis 160°C
- Natural rubber is more difficult to penetrate than RedRubber and has a higher particle formation
- > RedRubber and butyl show less fragmentation than natural rubber

Natural rubber is ideal for multiple injections due to its good resealing properties, but not as clean as RedRubber or Butyl









Art. No.	SV 08 0657	SV 08 0766	SV 08 0763	SV 08 0916	
Сар		Polypropylene Screw Cap bla	ck, 5.5mm centre hole, 8-425 thread		
Septa	Natural Rubber red- orange/TEF transparent	RedRubber/PTFE beige	Butyl cream/PTFE grey	Silicone white/Aluminum foil silver	
Hardness	60° shore A	45° shore A	55° shore A	50° shore A	
Thickness	1,3mm	1,0mm	1,3mm	1,3mm	
100 pcs. per PE-Bag					

2.3.2 Silicone/PTFE Seals

- ➤Temperature resistant from -60°C to 200°C
- >Preferably for single injections only

Can

- >Different hardnesses to suit the respective needle types
- Cleaner than natural rubber, RedRubber or butyl
- Silicone septa coated on both sides for low particle formation during penetration











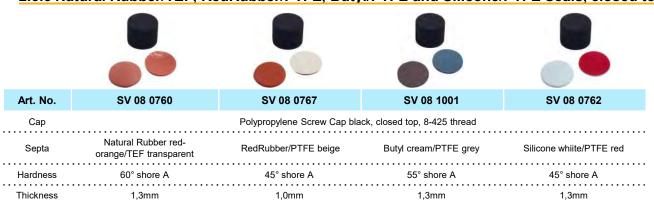


Art. No. SV 08 0158 SV 08 0759 SV 08 0761 SV 08 0293 SV 08 0495 SV 08 0439

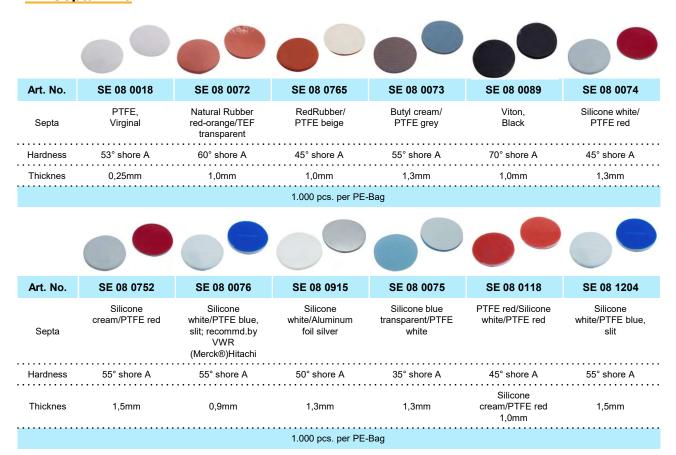
Polygrapylona Scraw Can black 5 5mm centre bala 8 425 thread

Сар	ap Polypropylene Sciew Cap black, 5.5mm centre noie, 6-425 thread					
Septa	Silicone white/PTFE red	Silicone cream/PTFE red	Silicone blue transp./PTFE white	PTFE red/Silicone white/PTFE red	Silicone white/ PTFE red, slit	Silicone white/ PTFE blue, slit
Hardness	45° shore A	55° shore A	35° shore A	45° shore A	45° shore A	45° shore A
Thickness	1,3mm	1,5mm	1,3mm	1,0mm	1,3mm	1,5mm
			100 pcs. per PE-	-Bag		

2.3.3 Natural Rubber/TEF, RedRubber/PTFE, Butyl/PTFE and Silicone/PTFE Seals, closed top



2.4 Septa ND8



2.5 PP Screw Caps ND8



2.6 Special 2in1 Kits for Screw Neck ND8

➤ Each combination of a screw neck vial ND8 is now available with any 8mm screw seal listed in the catalogue as a practical 2in1 kit!

100 Vials and 100 Seals per Box



2.7 Screw Vials ND8, with pre-assembled Screw Cap ND8

> Pre-screwed vials reduce the risk of contamination of the vials in the laboratory. Furthermore, special applications (e.g. in the tobacco industry) may require a pre-sealed vial.



3. Short Thread ND9

The vials can be used on all common autosamplers due to their technical geometry, preferentially they are found on Agilent, HTA, Shimadzu, Thermo Scientific, Varian, Waters®, etc. (Please have a look at the autosampler compatibility chart on pages 62-73 to see on which models they can be used)

The Universal Autosampler Vial

Universally compatible on almost all autosamplers, thereby rationalization of other 1.5ml vials, as for instance 11mm Crimp Neck Vials, Screw Neck Vials 8-425 and 10-425, is possible.



3.1 Short Thread Vials ND9, wide opening and Micro-Vials with Short Thread ND9





KG 09 0197



KG 09 0188



KG 09 0363

KG 09 0364

Short Thread



KG 09 0682



KG 09 0683



1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1st hydrol. class, wide opening

KG 09 0196



1,5ml Short Thread Vial, 32 x 11.6mm, amber glass, 1st hydrol. class, wide opening, label + filling lines

Vial with integrated 0.2ml Micro-Insert, 32 x 11.6mm, clear glass, 1st hydrol. class, label + filling lines. "Top Bonded"

Short Thread Vial with integrated 0,.3ml Micro-Insert, 32 x 11.6mm, clear glass, 1st hydrol. clas

Short Thread Vial with integrated 0,.3ml Micro-Insert, 32 x 11.6mm, amber glass, 1st hydrol. clas

0,9ml Total Mikroliter Short Thread Vial 32 x 11,6mm, clear glass, 1. hydrol. class

KG 09 1122

SILANIZED KG 09 0196s

R. vol. < 120µl

SILANIZED KG 09 0197s R. vol. < 120µl

SILANIZED KG 09 0188s R. vol. < 120µl

R. vol. < 1 µl

"Base Bonded" R. vol. < 1 µl

"Base Bonded"

R. vol. < 3 µl

R. vol. < 1 µl

100 pcs.per PP-Box

Vials ND9 (Forts.)







ME 06 0218



ME 06 0361







KG	09	0863
KG	09	0864

1.1ml Microliter Short Thread Vial 32 x 11.6mm. clear glass. 1st hvdrol, class (Amber Glass)

R. vol. < 15 µl

100 pcs.per PP-Box



KG 09 1201

Short Thread

KG 09 1321	
1.1ml Microliter short Thread Vial , 32 x 11.6mm, clear glass, 1st hydrol. clas (Amber Glass)	0.1ml Micro-Insert 31 x 6mm, clear glass, 1st hydrol. class, 15mm top

0,1ml Micro-Insert, nsert. 31 x 6mm, clear glass, 1st hydrol. class, 12mm top

0,2ml Micro-Insert, 31 x 6mm, clear glass, 1st hydrol. class, flat bottom

R. vol. < 8 µl

ME 06 0362

0,1ml Micro-Insert, 29 x 5.7mm, clear glass, 1st hydrol. class, with assembled plastic spring SILANIZED

ME 06 0232s

R. vol. < 4 µl

0.1ml PE Micro-Insert. 29 x 6mm, clear, with plastic spring

R. vol. < 4 µl

SILANIZED KG 09 1201s

R. vol. < 15 µl

ME 06 0218s R. vol. < 4 µl

SILANIZED

R. vol. < 4 µl

100 pcs.per PP-Box

13

3.3 Plastic Micro-Vials ND9









KG 09 0446 KG 09 0447		KG 09 0468	KG 09 0469		
1.5ml PP Short Thread Vial, transparent, filling lines, 32 x 11.6mm, slightly concave shaped bottom	1,5m PP Short Thread Vial, amber, filling lines, 32 x 11.6mm, slightly concave shaped botto	0,7ml PP Short Thread Micro-Vial, transparent, 32 x 11.6mm	0,3ml PP Short Thread Micro-Vial, transparent, 32 x 11.6mm		
R. vol. < 110µl	R. vol. < 110µl	R. vol. < 80µl	R. vol. < 4 μl		
100 pcs.per PP-Box					

3.4 PP Short Thread Seals ND9



- Screw cap with the design of a crimp cap; therefore suitable for robotic handling.
- Already assembled seal with slit liner available, in order to avoid vacuum within the vial in case of multiple injections.
- ➤ Short thread seals also available as closed top version for storage purposes

3.4.1 PTFE virginal Seals

- >Very inert and temperature resistant therefore also as coating on most other septa
- >No elastomer therefore limited sealing and reclosing characteristics
- >Only recommended for non-critical HPLC applications
- >Mostly used by Merck/Hitachi and Waters



PTFE virginal, 53° shore D, 0,2mm

100 pcs. per PE-Bag

3.4.2 Natural Rubber/TEF Seals

- >Ideal for multiple injections due to its reclosing properties
- ➤Temperature resistant from -40° C to 120° C
- ➤ Used frequently in GC and HPLC



Septa Natural Rubber red-orange/TEF transparent, 60° shore A, 1,0mm

3.4.3 Silicone white/PTFE red Seals

- Is the purest synthetic elastomer and is therefore used for critical analyses
- >Temperature resistance from -60° C to 200° C
- >Preferably recommended for single use injections due to less good reclosing properties



Silicone white/PTFE red, 55° shore A,1,0mm

100 pcs. per PE-Bag

3.4.4 RedRubber/PTFE beige Seals

- New synthetic rubber comparable to silicone in terms of purity
- ➤Temperature resistance from -40° C to 150° C
- >Preferably recommended for single use injections due to less good reclosing properties



100 pcs. per PE-Bag

3.4.5 PTFE red/Silicone white/PTFE red Seals

- Is the purest synthetic elastomer and is therefore used for critical analyses
- ➤Temperature resistance from -60° C to 200° C
- >Silicone septa coated with PTFE on both sides for low particle formation



PTFE red/Silicone white/PTFE red, 45° shore A, 1,0mm Septa

100 pcs. per PE-Bag

3.4.6 Silicone white/Alu Seals

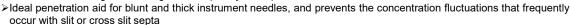
>Temperature resistance from -60° C to 200° C



Silicone white/Aluminum foil silver, 50° shore A, 1,0mm Septa

3.4.7 (Y-pre-cut) Seals

>With pre-cut septa only the silicone material is slit in Y-shape while the PTFE lamination remains intact. This way concentration changes occurring with completely slit septa can be avoided.







100 pcs. per PE-Bag

3.4.8 Silicone white/PTFE blue, slit Seals

- ▶Is the purest synthetic elastomeric and is therefore used for critical analyses
- >Temperature resistance from -60° C to 200° C
- Preferably recommended for single use injections due to less good reclosing properties
- >Slit septa in HPLC as penetration aid for blunt needles and to create a valve effect in case of multiple injections
- >Application in GC, HPLC and headspace analysis



100 pcs. per PE-Bag

3.4.9 Seals for high temperature analysis and trace analysis

>9mm short thread seals with high purity PTFE virginal, or Aluminum septa

≻Perfect for GC-MS and LC-MS

➤ An O-ring ensures 100% tightness

Chromatogram GC/MS











Art. No.	SV 09 1005	SV 09 1004	SV 09 1007	SV 09 1006	
Сар	PP SC, transparent, w. hole	PP SC, blue, w. hole	PP SC, transparent, w. hole	PP SC, blue, w. hole	
Septa	Aluminum Septa (additional sealing through O-ring)	Aluminum Septa (additional sealing through O-ring)	PTFE virginal, 0,25mm (additional sealing by O-ring)	PTFE virginal, 0,25mm (additional sealing by O-ring)	
Hardness			53° shore A	53° shore A	
Thickness	0,06mm	0,06mm	0,20mm	0,20mm	
100 pcs. per PE-Bag					

3.4.10 UltraBond Seals ND9

(Cap + Liner form an inseparable unit, so that the liner cannot be pushed into the vial even with a blunt needle)

- A special feature of an UltraBond closure system is that the screw cap and septa form an inseparable unit. This is made of a patented manufacturing process in which the molecular structure of the contact surface of the PP screw cap and the septa is modified in such a way that they form a strong bond without the use of adhesives.
- Comparable systems on the market are LECTRABOND Seals from WATERS® and the INTERSEAL closure from Agilent







Art. No.	SV 09 0165	SV 09 0772	SV 09 0773	
Сар	PP SC, blue, 6mm hole	PP SC, blue, 6mm hole	PP SC, blue, 6mm hole	
Septa	Silicone white/PTFE red	Silicone beige/PTFE white	Silicone beige/PTFE white, slit	
Hardness	45° shore A	45° shore A	45° shore A	
Thickness	1,3mm	1,0mm	1,0mm	
100 pcs. per PE-Bag				

3.4.11 Magnetic Short Thread Seals, 6mm centre hole

(for CTC GC PAL + Thermo Scientific TriPlus Autosampler)

- >More convenient and safer in handling than 11mm magnetic crimp seals.
- >Ready-to-use closures.







	Art. No.	SV 09 1153	SV 09 1173	SV 09 1124		
Сар		PP SC, blue, with assembled magnetic crimp cap ND11, gold, 6mm hole	PP SC, blue, with assembled magnetic crimp cap ND11, gold, 6mm hole	PP SC, blue, with assembled magnetic crimp cap ND11, gold, 6mm hole		
	Septa Silicone white/PTFE red		Silicone white/PTFE blue, slit	Natural Rubber red-orange/TEF transparent		
	Hardness	45° shore A	55° shore A	60° shore A		
	Thickness	1,0mm	1,0mm	1,0mm		

100 pcs. per PE-Bag

3.4.12 9mm Short Thread PP Cap with thinned penetration area

Art. No.	SK 09 1314
Сар	PE screw cap with thinned penetration area, transparent
	100 pcs. per PE-Bag



3.5 Special 2in1 Kits for Short Thread ND9

➤ Each combination of a short-thread vial ND9 is now available with any 9mm short-thread seal listed in the catalogue as a practical 2in1 kit!

100 Vials and 100 Seals per Box



3.6 Short thread vials ND9, with pre-assembled screw seals ND9

> Prescrewed vials reduce the risk of contamination of the vials in the laboratory. Furthermore, special applications (e.g. in the tobacco industry) may require a pre-sealed vial.

4. Screw Neck ND10

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

(Please have a look at the autosampler compatibility chart on pages 62 - 73 to see on which models they can be used)

- >Wide opening allows easy filling
- >Wide range of micro inserts
- ➤ Each combination of a 1.5ml threaded vial is available with a suitable screw cap as a 2in1 kit
- Closed top screw seals for storage
- ➤ Single septa as replacement available



4.1 Screw Neck Vials ND10, wide opening, 10-425 thread and Mikroliter Vials ND10



4.2 Micro-Inserts for Vials with wide opening

>Special features of our micro insert ME 06 0232 with polymer spring.

- 1. The geometry of the three spreader feet is specially designed so that the feet press against the inner walls of the vial when it is inserted into it, thus ensuring a centric fit and thus reliable sampling.
- The hardness of the polymer spring is specially adapted to ensure that there is sufficient elasticity for easy insertion, but that sufficient counter pressure is generated by the spring mechanism to ensure that the insert always presses against the septa and prevents the sample from leaking.



4.3 PP Screw Seals ND10

- >Our 10-425 PP Screw Seals can be offered in a variety of septa
- In standard assembled and therefore available from stock, the seals are available as follows
- ▶On request the Seals ND10 can be delivered with further septa materials or with a different cap color



4.4 Septa 10mm for Screw Caps ND10

- >Please note that the diameter of the septa is designed to match our cap design. We cannot guarantee an optimal press-fit of the septa in caps of other manufacturers!
- Further septa made of other materials such as Viton, Butyl/PTFE etc. are available on request!



4.5 PP Screw Caps ND10

- ➤ High-quality PP Screw Caps with thread 10-425 are available as standard caps.
- ➤ Available with hole and as closed top version, black
- ➤Other cap colors are available on request



5. Crimp Neck ND11

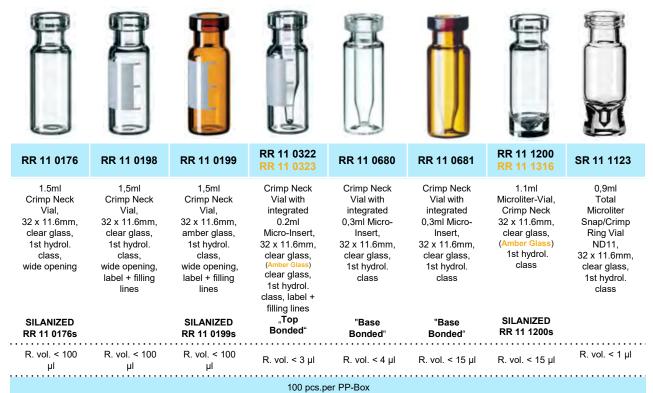
The vials are preferentially used on instruments of the following manufacturers: Agilent, Carlo Erba, CTC, DANI, Fisons, Gerstel, Jasco, PerkinElmer, Shimadzu, Spark, Thermo Scientific, Varian, etc.

(Please have a look at the autosampler compatibility chart on pages 67 - 78 to see on which models they can be used)

- Standard vials for GC and HPLC.
- ➤ Vials with a barcode label can be obtained as well as pre-crimped vials.
- > Wide range of suitable standard crimp Seals, micro inserts and appropriate crimping and decapping tools



5.1 Crimp Neck Vials ND11, wide opening and Micro-Vials ND11



5.1 Crimp Neck Vials ND11 (Cont.)

20

5.2 Micro-Inserts for Vials with 6mm opening

RR 11 0366	RR 11 0367	RR 11 0872	RR 11 0873	ME 06 0218	ME 06 0361	ME 06 0362	ME 06 0232
0,9ml Micro-Vial, 32 x 10mm, clear glass, 1st hydrol. class, conical	1,1ml Micro- Vial, 32 x 11.6mm, clear glass, 1st hydrol. class, conical	1,1ml Microliter Crimp Neck Vial 32 x 11.6mm clear glass, 1st hydrol. class	1,1ml Microliter Crimp Neck Vial 32 x 11.6mm clear glass, 1st hydrol. class	0.1ml Micro-Insert, 31 x 6mm, clear glass, 1st hydrol, class, 15mm top SILANIZED ME 06 0218s	0,1ml Micro-Insert, 31 x 6mm, clear glass, 1st hydrol. class, 12mm top	0,2ml Micro-Insert, 31 x 6mm, clear glass, 1st hydrol. class, flat bottom	0,1ml Micro-Insert, 29 x 5.7mm, clear glass, 1st hydrol. class, with assembled plastic spring SILANIZED ME 06 0232s
R. vol. < 2 μl	R. vol. < 4 μl	R. vol. < 15 μl	R. vol. < 15 μl	R. vol. < 4 µl	R. vol. < 4 µl	R. vol. < 8 µl	R. vol. < 4 µl

........... 100 pcs.per PP-Box 10 x 100 pcs.per PP-Box

5.3 Aluminum Crimp Seals ND11

5.3.1 Natural Rubber/TEF Seals

- >Perfect for multiple injections due to its reclosable properties
- >Temperature resistant from -40° C to 120° C
- ➤ Used in GC and HPLC

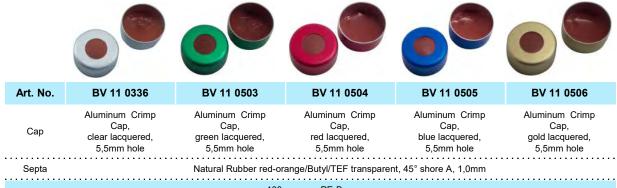


100 pcs. per PE-Bag

5.3.2 Natural Rubber /Butyl/TEF Seals

>Three-layer, so-called sandwich septa made of natural rubber/butyl/TEF combines the excellent physical properties of natural rubber (resealing properties) with the excellent chemical properties of synthetic butyl (purity)

>Ideal for multiple injections, easier to penetrate than natural rubber/TEF seals



100 pcs. per PE-Bag

5.3.3 RedRubber/PTFE Seals

- New synthetic rubber comparable to silicone in terms of purity
- ➤Temperature resistance from -40° C to 150° C
- > Preferably recommended for single use injections due to less good reclosing properties
- >Applications in GC and HPLC



tested instrument manufacturer quality

5.3 Aluminum Crimp Seals ND11 (Cont.)

5.3.4 Silicone white/PTFE red Seals

- Is the purest synthetic elastomer and is therefore used for critical analyses
- >Temperature resistance from -60° C to 200° C
- >Preferably recommended for single use injections due to less good reclosing properties
- >Application in GC, HPLC and headspace analysis



5.3.5 Other Silicone/PTFE Seals

- >The purest synthetic elastomer and therefore used for critical analyses
- >Silicone septa coated with PTFE on both sides for low particle formation
- ➤ Slit septa in HPLC as penetration aid for blunt needles to create a valve effect in case of multiple injections
- ➤Temperature resistance from -60° C to 200° C



Art. No.	BV 11 0643	BV 11 0138	BV 11 0136			
Сар	Aluminum C	rimp Cap, clear lacquered,	5,5mm hole			
Septa	Silicone cream/PTFE red	PTFE red/Silicone white/PTFE red	Silicone white/PTFE blue, slit			
Hardness	55° shore A	45° shore A	55° shore A			
Thickness	1,5mm	1,0mm	1,0mm			
100 pcs. per PE-Bag						

5.3.6 Butyl/PTFE Seals

➤Temperature resistance from -40° C to 120° C



Art. No.	BV 11 0130	BV 11 0382	
Сар	Aluminum Crimp Cap, c	lear lacquered, 5,5mm hole	
Septa	Butyl cream/PTFE grey	PTFE grey/Butyl cream/PTFE grey	
Hardness	55° shore A	55° shore A	
Thickness 1,3mm		1,0mm	
	100 pcs. per PE-E	Bag	



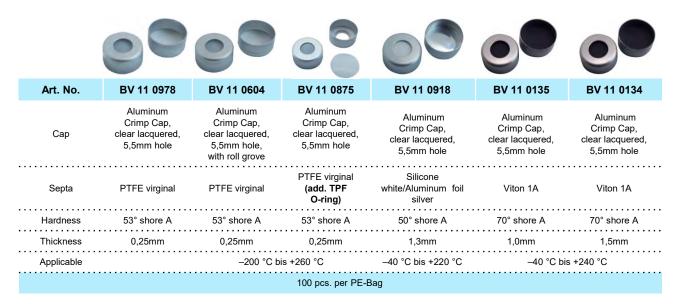


Crimper and Decapper, please refer to chapter 17 on pages 46-57

5.3 Aluminum Crimp Seals ND11 (Cont.)

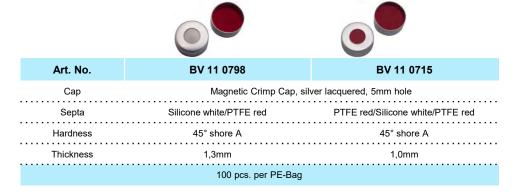
5.3.7 High Temperature Seals

- >Total phthalate free closure system (TPF closure); elastomer and halogen free septa
- > Viton is resistant to a large number of corrosive organic substances; it has a high thermal and chemical resistance; main field of application in the petrochemical industry



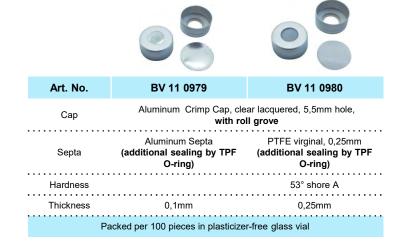
5.3.8 Magnetic Crimp Seals ND11

(for CTC PAL + Thermo Scientific TriPlus Autosampler)



5.3.9 Trace analysis and TPF closure systems

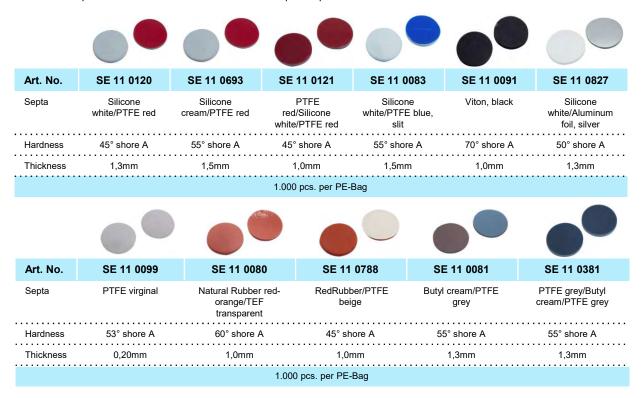
>Total phthalate free closure system (TPF closure); elastomer and halogen free septa





5.4 Septa 11mm Aluminum Crimp Seals ND11 (Cont.)

- >Please note that the diameter of the septa is designed to match our cap design. We cannot guarantee an optimal press-fit of the septa in caps of other manufacturers!
- Further septa made of other materials are available upon request!



5.5 Aluminum Crimp Caps ND11

>Aluminium crimp caps are available in clear lacquer, green lacquer, red lacquer, blue lacquer and gold lacquer as standard >Other colours can be supplied on request



5.6 Special 2in1 Kits Aluminum Crimp Seals ND11

➤ Each combination of a crimp neck vial ND11 is now available with any 11mm crimp cap listed in the catalogue as a practical 2in1 kit!

100 Vials and 100 Seals per Box



5.7 Crimp Neck Vials ND11 with pre-crimped Aluminum Seals ND11

- > Pre-crimped vials reduce the risk of contamination of vials in laboratories. Furthermore special applications could require a pre-crimped vial (e.g. in the tobacco industry).
- >Pre-crimped vials are available with any of the crimp/snap neck vials and any seal of your choice.

6. Snap Ring Vials ND11

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.

(Please have a look at the autosampler compatibility chart on pages 67 - 78 to see on which models they can be used)

The Universal Autosampler Vial

- >Universally usable vials for almost all autosamplers, even for those with robotic handling.
- > Vials can also be crimped with a standard 11mm Aluminum Crimp Seal, as the two snap ring lips have the same height as a crimp neck



6.1 Snap Ring Vials ND11, wide opening and and appropriate Micro-Inserts



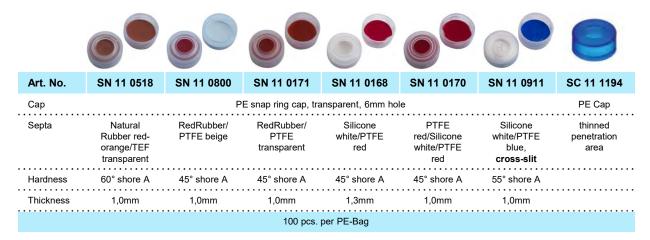
Snap Ring Mikroliter Vials ND11



6.2 PE Snap Ring Seals ND11

- ➤ Snap Caps in the design of an aluminum crimp cap; therefore also suitable for robots
- > Fast and easy to close and open
- Snap ring vials ND11 can alternatively be closed with aluminum crimp seals ND11
- ➤ In standard snap ring caps are in transparent and blue available!

6.2.1 PE Snap Ring Seals ND11, with transparent cap

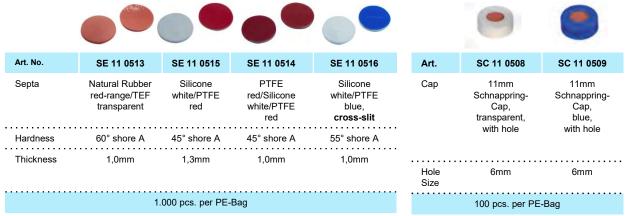


6.2.2 PE Snap Ring Seals ND11, with blue cap



6.3 Septa 10,5mm for Snap Ring Seals ND11

6.4 PE Snap Ring Caps ND11



7. Screw Neck ND13

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

(Please have a look at the autosampler compatibility chart on pages 62 – 73 to see on which models they can be used)

- >Wide opening allows easy filling with viscous materials
- >With closed screw caps ND13 ideal for storage
- Each vial and cap combination is now available as a practical 2in1 kit!



7.1 Screw Neck Vials ND13 and appropriate Micro-Inserts















4ml
Screw Neck Vial,
45 x 14.7mm,
clear glass,
1st hydrol. class



GW 13 0456



GW 13 0455

4ml Screw Neck Vial, 45 x 14.7mm. amber glass, 1st hydrol. class, label + filling lines

GW 13 0457

3,5ml Mikroliter- Screw Neck Vial, 45 x 14.7mm, clear glass. 1st hydrol. class

GW 13 1283

0,3ml Micro-Insert. 40 x 6mm, clear glass, 1st hvdrol. class. 15mm top Metal Spring required!

ME 13 0458

Spring 50 x 7.5mm

R. vol. $< 400 \mu l$

R. vol. < 400 µl

R. vol. < 400 µl

100 pcs.per PP-Box

R. vol. $< 400 \mu l$

R. vol. < 15 µl

R. vol. < 9 µl

10 x100 Stück

for Micro-Insert

10 x100 Stück

ME 13 0458

7.2 PP Screw Seals ND13, black with hole













Art. No.

SV 13 0476

SV 13 0477







SV 13 0487

SV 13 0806

Polypropylene Screw Cap, black, 8.5mm centre hole

SV 13 0478 SV 13 0479

Cap Septa

Natural Rubber redorange/TEF Silicone white/ PTFE red

Butyl ceme/ PTFE grey

Silicone cream/ PTFE red

PTFE red/ Silicone white/ PTFE red

Silicone white/ PTFE blue, slit

Hardness Thickness

transparent 60° shore A

1,3mm

45° shore A 1,3mm

55° shore A 1,3mm

100 pcs. per PE-Bag

55° shore A 1,5mm

45° shore A 1,0mm

 55° shore A

1,0mm

7.3 PP Screw Seals ND13, black, closed top







Art. No.	SV 13 0488	SV 13 0489	SV 13 0805		
Сар	Polypropylene Screw Cap, black, closed top				
Septa	Natural Rubber red-orange/TEF transparent	Butyl cream/PTFE grey	Silicone cream/PTFE red		
Hardness	60° shore A	55° shore A	55° shore A		
Thickness	1,3mm	1,3mm	1,5mm		

7.4 Septa 12mm

Further septa made of other materials and/or available in other thicknesses!



7.5 PP Screw Caps ND13



7.6 Special 2in1 Kits Screw Neck ND13

➤ Each combination of a screw thread vial ND13 is now available with any ND13 screw cap listed in the catalogue as a practical 2in1 kit!

100 Vials and 100 Seals per Box



7.7 Screw Thread Vials ND13, with pre-assembled screw cap ND13

> Pre-screwed vials reduce the risk of contamination of the vials in the laboratory. Furthermore, special applications (e.g. in the tobacco industry) may require a pre-sealed vial.



8. Screw Neck ND15

- Screw Neck Vials for storage purposes made out of 1st hydrol. class glass.
- ≽For sample volumes from 800 µl to 12000 µl
- ➤Wide opening for safe filling
- >Seals available with many different septa materials

8.1 Screw Neck Vials ND15









GW 15 0876

GW 15 0636

R. vol. 800 µl

8ml Screw Neck Vial, 15-425, 61 x 16.6mm, clear glass, 1st hydrol. class

GW 15 0831 8ml Screw Neck Vial, 15-425,

61 x 16.6mm, amber glass, 1st hydrol. class R. vol. 800 µl

12ml Screw Neck Vial, 15-425, 66 x 18.5mm, clear glass, 1st hydrol. class

12ml Screw Neck Vial, 15-425, 66 x 18.5mm, amber glass, 1st hydrol. class

R. vol. 800 µl R. vol. 800 µl

100 pcs. per Box

8.2 PP Screw Seals ND15, black, closed top

>On the sample side, the aluminium foil with its outstanding chemical properties protects the sample, the soft inner core of PE foam provides the elasticity in the cap

>Our PP Screw Cap can be combined with any of the septa listed below











Art. No. SV 15 0594 SV 15 0638

SV 15 0884

SV 15 0878

SV 15 1327

Сар PP SC, black, closed top Natural Rubber red-Butyl dark grey Butyl red/PTFE grey Silicone Septa Viton, black white/Aluminum foil orange/TEF transparent silver Hardness 60° shore A 55° shore A 70° shore A 50° shore A 48° shore A 1.3mm 1 6mm 1.3mm 2mm Thickness 1.0mm 100 pcs. per PE-Bag

8.3 Septa 14mm and PP Screw Seals ND15



9. Snap Cap Vials ND18 + ND22

- Easy to handle and inexpensive storage vials with push-on Snap Caps
- > Caps and Vials separately obtainable.
- >Quickly and easily to reopen and reseal.
- >No liners are required in the cap.
- >For storage of powders and solids.

9.1 Snap Cap Vials ND18 + ND22



100 pcs.per PP-Box

9.2 Appropriate PE Snap Caps ND18 + ND22, transparent, closed top

>Snap Caps are available in many other sizes

>For larger purchase quantities, our snap Caps can also be obtained in other colors





Art. No.	SD 18 0067	SD 22 0068	
Descr.	18mm PE Snap Cap, 19.8 x 5.2mm, transparent, closed top, for ND18	22mm PE Snap Cap, 23.5 x 5.5mm, transparent, closed top, for ND22	
VE	100 pcs. per PE-Bag		

9.3 2in1Kits (snap cap vial including cap)

KP 22 1431	KP 22 1432	KP 28 1398	KP 28 1367	KP 28 1377
2in1 Kit: 20ml Snap Cap Vial, 70x25mm, clear glass, 3st hydrol. class, incl. Snap Cap ND22	2in1 Kit: 20ml Snap Cap Vial, 55x27mm, clear glass, 3st hydrol. class, incl. Snap Cap ND22	2in1 Kit: 40ml Snap Cap Vial, 80x30mm, clear glass, 3st hydrol. class, incl. Snap Cap ND28	2in1 Kit: 50ml Snap Cap Vial, 100x30mm, clear glass, 3st hydrol. class, incl. Snap Cap ND28	2in1 Kit: 50ml Snap Cap Vial, 145x34mm, clear glass, 3st hydrol. class, incl. Snap Cap ND28
	100 pcs. per Box			

10. Headspace Precision Thread ND18

- > The times when precision thread vials were mainly used on instruments with magnetic transport mechanism are over. In order to exclude difficulties and risks of a crimping process, instrument manufacturers are striving to make the closing process of the sample bottle and the associated tightness safer and more reproducible.
 - (Please refer to our compatibility overview on pages 67 78 to find out which bottle is especially suitable for which instrument)
- > PerkinElmer has now added precision thread vials to its product range for all TurboMatrix 16, 40 and 110 autosamplers built after 01.09.2006.
- > This means that almost all current headspace autosamplers (Agilent, CTC, Gerstel, PerkinElmer, Shimadzu, Varian) now offer the possibility of using these vials, which can be used universally for headspace + SPME. Another advantage is the thinner septa compared to the crimp caps, which are easier and more gentle on the needle to penetrate.



10.1 Headspace Precision Thread Vials ND18











HS 18 0233

10ml Precision Thread Vial ND18 46 x 22.5mm. clear glass. 1st hydrol, class. rounded bottom

R. vol. 800 µl

10ml Precision Thread Vial ND18 46 x 22.5mm. amber glass. 1st hydrol, class. rounded bottom

HS 18 0348

20ml Precision Thread Vial ND18. 75.5 x 22.5mm. clear glass. 1st hydrol, class. rounded bottom

20ml Precision Thread Vial ND18 75.5 x 22.5mm. clear glass. 1st hydrol. class, label + filling lines rounded bottom

R. vol. 800 µl

dark silicone/

20ml Precision Thread Vial ND18 75.5 x 22.5mm. amber glass, 1st hydrol, class. rounded bottom

R. vol. 800 µl

R. vol. 800 µl

R. vol. 800 µl 100 pcs.per PP-Box

10.2 Magnetic Universal Screw Seals ND18 for Precision Thread Vials

> Precision Thread Vials and Closures now also used on PerkinElmer TurboMatrix 16, 40 and 110 autosampler that have been constructed after 01.09.2006



PTFE Hardness 40° shore A 45° shore A 55° shore A 50° shore A 45° shore A 50° shore A 55° shore A Thickness 3mm 1.3mm 1.5mm 1.3mm 3.0mm 3.0mm 1.6mm

silver

100 pcs. per PE-Bag

10.3 Septa 17,5mm for Magnetic Universal Screw Seals ND18



11. Headspace-Vials ND20 + ND18

11.1 General overview Headspace Vials ND18 + ND20

Article	HS 20 0238	HS 20 0239 HS 20 0352	HS 20 0207	HS 18 0931	HS 20 0354	HS 20 0355
Descr.	5ml Headspace- Vial, 38.2 x 22mm, clear glass, 1st hydrol. class,	20ml Headspace- Vial, 75.5 x 23mm, clear glass, 1st hydrol. class, (Amber Glass)	20ml Headspace- Vial, 75.5 x 23mm, clear glass, 1st hydrol. class, label + filling lines	20ml Headspace- Vial 75.5 x 23mm, clear glass, 1st hydrol. class, with screw thread ND18	5ml Crimp Neck Vial, 38 x 20mm, clear glass, 1st hydrol. class,	10ml Crimp Neck Vial, 54.5 x 20mm, clear glass, 1st hydrol. class
Features	HS-Crimp Neck, rounded bottom	HS-Crimp Neck, rounded bottom	HS-Crimp Neck, rounded bottom	Screw Neck ND18, rounded bottom	DIN Crimp Neck, flat bottom	DIN Crimp Neck, flat bottom
Filling Capacity	9,4ml	22ml	22ml	21,2ml	8ml	12,2ml
Residual volume	800µl	800µl	800µl	800µl	800µl	800µl
	PerkinElmer	PerkinElmer, Tekmar	PerkinElmer, Tekmar	PerkinElmer	Varian	Varian
			100 pcs.per PP-B	ox		
Article	HS 20 0302 HS 20 0350	HS 20 0235	HS 20 0236	HS 20 0237 HS 20 0351	HS 20 0353 HS 20 0732	HS 20 0996
Descr.	10ml Headspace- Vial, 46 x 22.5mm, clear glass, 1st hydrol. class (Amber Glass)	10ml Headspace- Vial, 46 x 22.5mm, clear glass, 1st hydrol. class	20ml Headspace- Vial, 75.5 x 22.5mm, clear glass, 1st hydrol. class	20ml Headspace- Vial, 75.5 x 22.5mm, clear glass, 1st hydrol. class (Amber Glass)	20ml SPME Vial, 75.5 x 22.5mm, clear glass, 1st hydrol. class (Amber Glass)	5ml Headspace- Vial, 38,2 x 21,7mm, clear glass, 1st hydrol. class
Features	DIN Crimp Neck, rounded bottom	DIN Crimp Neck, flat bottom	DIN Crimp Neck, flat bottom	DIN Crimp Neck, rounded bottom	Special Crimp Neck, rounded bottom	HS-Rollrand, flat bottom
Filling Capacity	12,3ml	11,7ml	21,2ml	20,9ml	21,2ml	21,2ml
Residual volume	800µl	800µl	800µl	800µl	800µl	800µl
	Carlo Erba, CTC, Fisons,	Carlo Erba, Dani, Fisons,	Carlo Erba, Dani, Fisons,	CTC PAL (Varian, Gerstel, Atas,	SPME Flasche for CTC PAL	Metrohm
	Varian (CP)	Agilent	Agilent	Shimadzu, TriPlus HS)	CICFAL	

Screw Neck ND18

Article

For the instruments on which this vial can be used, please refer to the compatibility chart below, or the compatibility chart on pages 62 - 73.

11.2 Screw Neck Vial ND18



Descr.	20ml Headspace-Vial 75.5 x 23mm, clear glass, 1st hydrol. class			
Filling Capacity	21,2ml			
Residual volume	800µl			
100 pcs.per PP-Box				

Compatibility- Overview			
PerkinElmer	HS40/ HS100/ HS101TurboMatri x HS16/ HS40/ HS40XL/ S40Trap/HS110/ HS110Trap	X	
Spark	Alias	X	
Teledyne Tekmar	7000/ 7000HT/ 7050/ HT3	X	
Thermo Scientific	Trace 1300 Series	X	

11.2.1 PP Screw Seals ND18

➤ For headspace analysis or as sample storage vials

>With our variety of septa we will find a customized solution for you



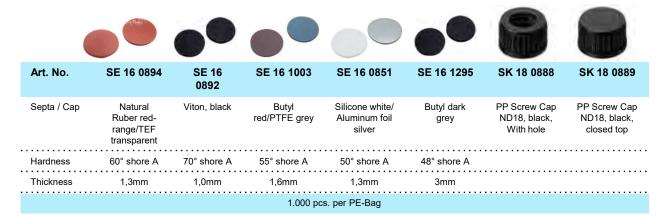






Art. No.	SV 18 1076	SV 18 1177	SV 18 0898	SV 18 1036	SV 18 1296			
Headspace				Storage				
Сар	Р	P SC, black, 12mm hole, GL	PP SC, black, closed top, GL 18					
Septa	Butyl red/ PTFE grey	Silicone white/PTFE blue	Silicone white/Aluminum foil silver	Butyl red/ PTFE grey	Butyl dark grey			
Hardness	55° shore A	55° shore A	50° shore A	55° shore A	48° shore A			
Thickness	1,6mm	1,5mm	1,3mm	1,6mm	3mm			
100 pcs. per PE-Bag								

11.2.2 Septa 16mm and Screw Seals ND18



Further septa available in other materials and thicknesses

>PP Screw Cap ND18 also available in white!

11.3 Aluminum Crimp Seals ND20

- > Wide range of vials and seals required to cope with the large number of devices available on the market
- > Besides the vial length and the tube diameter, the neck length also plays a major role when selecting a suitable ND20 headspace vial, since these are designed depending on the instrument
- For the selection of a suitable closure, the type of cap is very important in addition to the special requirements for the sealing disc (purity, hardness, thickness, etc.). The transport mechanism from the sampler to the analyser must be considered here in the first instance and thus ensures an initial pre-selection.

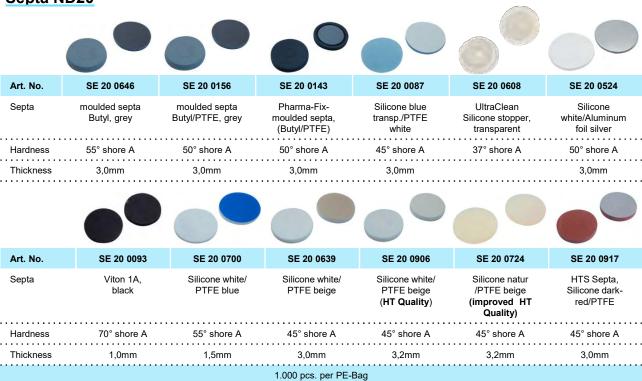
Overview of available cap types ND20

- ➤ Different characteristics compared
- ➤ Various colour coatings for easy sample differentiation
- >Tamper-evident perforated caps to prevent manipulation and/or contamination of the septum during transport of the samples

Aluminium crimped cap	Headspace- cap	Centre tear- off cap	Flip-off Cap	Complete tear-off cap	Magnetic crimp cap	Magnetic crimp cap	Magnetic Bim-Metal Cap
00	00	0		0	00	0	00
0							00
00							00
0							00
00							
			•				
			00				
10mm hole	8mm hole	8mm hole	8mm hole		6mm hole	8mm hole	8mm hole
	Pressure release cap; comparable with patented PerkinElmer Seal	Tamper evide Centre-Te	ent crimp cap: ear-Off part	Tamper evident crimp cap	CE HS500/ HS800/ CTC500/ Fisons HS500/ HS800	CTC Combi PAL	CTC Combi PAL

Basically each of the above mentioned Cap can be combined with a septa of your choice! The cap selection in the following chapter only represents our standard range.

Septa ND20



11.3.1 Butyl Seals

- ➤Temperature resistant from -40° C to 120° C
- Due to missing PTFE lamination only suitable for uncritical analyses
- >Inexpensive combination closure
- >The moulded septa is purer and denser compared to a conventional punching septa



moulded septa Butyl, grey, 55° shore A, 3,0mm

100 pcs. per PE-Bag

11.3.2 Butyl/PTFE Seals

- ➤Temperature resistant from -40° C to 120° C
- ➤ Complete PTFE lamination extends the range of applications to include more critical analysis



11.3.3 Pharma-Fix Seals (Butyl/PTFE)

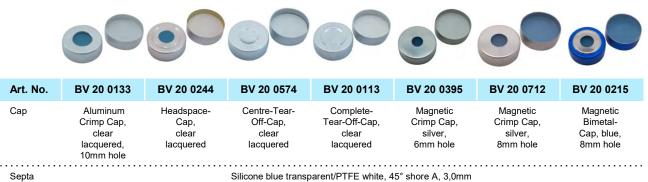
>Special Septa: Special, moulded Butyl/PTFE liner that is only laminated with PTFE in the contact area towards the sample. On the glass rims the elastic Butyl achieves a very tight seal.

>Temperature resistant from -40°C up to 120°C.



11.3.4 Silicone blue transparent/PTFE white Seals

➤Temperature resistant from -60°C to 200°C ➤Soft septa for easy penetration ➤ Purest synthetic rubber, therefore used for critical analyses



100 pcs. per PE-Bag

11.3.5 Silicone white/PTFE beige Seals (HT-Quality)

- ➤Temperature resistant from -60°C to 200° C
- ➤ Soft septa for easy penetration
- >Purest synthetic rubber, therefore used for critical analyses

➤ Silicone natural/PTFE beige corresponds the improved Agilent HT quality





Art. No.	BV 20 0907	BV 20 0908	BV 20 0909	BV 20 0910	BV 20 0815	BV 20 0719	BV 20 0838
Сар	Aluminum Crimp Cap clear lacquered, 10mm hole	Headspace- Cap, clear lacquered	Magnetic Crimp Cap, silver, 8mm hole	Magnetic Bimetal- Cap, blue, 8mm hole	Aluminum Crimp Cap clear lacquered, 10mm hole	Headspace- Cap, clear lacquered	Magnetic Crimp Cap, silver, 8mm hole

Septa Silicone white/PTFE white, 45° shore A, 3,2mm (HT-Quality)

Silicone natur/PTFE beige, 45° shore A, 3,2mm improved HT quality

100 pcs. per PE-Bag

11.3.6 Silicone white/PTFE beige

- ➤Temperature resistant from -60°C to 200° C
- ➤ Silicone septa completely laminated with PTFE
- >Often used on instruments of Shimadzu



100 pcs. per PE-Bag

11.3.7 Silicone White/Aluminum foil, silver

- >Completely with aluminium foil laminated silicone sept
- >Often used on instruments of PERKINELMER
- >The same chemical and physical properties like PTFE laminated septa
- >Temperature resistant from -60°C to 220° C



Art. No.	BV 20 0525	BV 20 0527	BV 20 0830	BV 20 0526	BV 20 0731	BV 20 0839	BV 20 0823
Сар	Aluminum Crimp Cap, clear lacquered, 10mm hole	Headspace- Cap, clear lacquered	Centre-Tear- Off-Cap, clear lacquered	Complete- Tear-Off-Cap, clear lacquered	Magnetic Crimp Cap, silver, 6mm hole	Magnetic Crimp Cap, silver, 8mm hole	Magnetic Bimetal Cap, blue, 8mm hole

Silicone white/Aluminum foil, silver, 50° shore A, 3,0mm Septa

100 pcs. per PE-Bag

11.3.8 HTS Silicone dark-red/PTFE Seals

- ➤ New closure system with our HTS-Septa dark red/PTFE for high temperature areas in headspace analysis
- >Temperature resistant from -60°C to 300° C







11.3.9 Magnetic Seals for SPME Vials HS 20 0353 and HS 20 0732

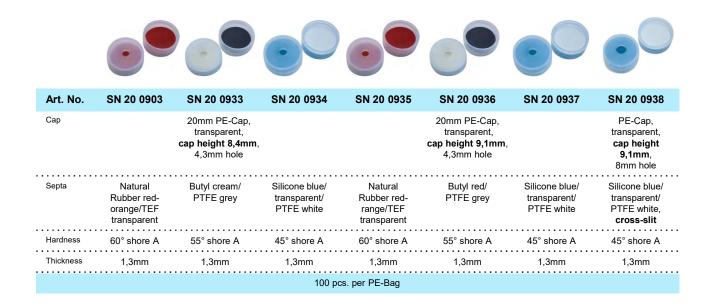
- ➤To facilitate penetration in the sensitive SPME phase, it is necessary to use thinner septa than the 3.0mm thick septa normally used in headspace.
- ➤ In addition, our Article BV 20 0699 is based on a thinned teflon barrier, as the PTFE lamination is the most difficult part of the septa to penetrate.
- ➤ Viton see article BV 20 0816 with its outstanding chemical and physical properties does not require any barrier, as it has a very good resistance to acids, oils and petrol. Temperature resistant from -40°C to 240°C, for a short time Viton even withstands temperature loads of 300°C!

> The ultra-thin full-surface aluminium foil of our article BV 20 0930 offers ideal protection, even against highly aggressive filling materials; combined with the only 1.3mm thin, high-purity white silicone, the Septa is very gentle to the needle



11.4 Transport or intermediate seal for HS-edge/ rolled edge ND20 (Wash vial cap ND20)

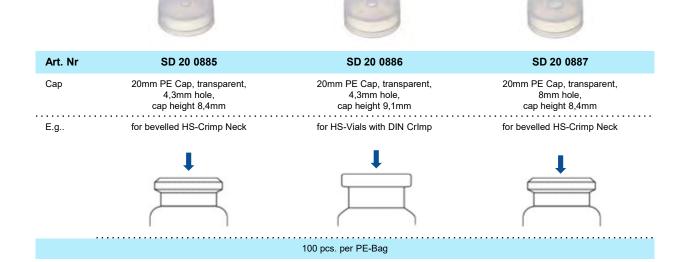
- ▶20mm seal often used for washing vials for instruments
- Inexpensive and practical intermediate seal when taking samples outside on site
- Cap height of 8.4mm suitable for HS bottles with bevelled HS crimp neck.
- ➤ Cap height of 9.1mm for headspace vials with DIN crimp neck.



11.4.1 Septa 19,5mm for Washer Bottle Caps



11.4.2 PE Seals for Washer Bottles



12. Screw Neck ND24 (EPA)

- ➤The vials are preferentially used on instruments of the following manufacturers: Agilent, Dionex, Shimadzu, Tekmar, Thermo Scientific, Varian (Please have a look at the autosampler compatibility chart on pages 62 73 to see on which models they can be used)
- > Broad range of EPA Vials in clear and amber glass manufactured out of Schott Fiolax tubings
- ➤ Packed in a certified class 100,000 clean room
- >Volumes of 20ml, 30ml, 40ml and 60ml available.
- ➤ Optional: All types of EPA Vials can be delivered against a small surcharge with a certificate of cleanliness that might especially be needed for TOC analysis.
- ➤ New: EPA vials can also be pre-sealed with a screw cap of your choice



12.1 Screw Neck Vials ND24 (EPA)











Article	GW 24 0240	GW 24 0344	GW 24 0241	GW 24 0345	GW 24 0242	GW 24 0346	GW 24 0243	GW 24 0347
Descr.	20ml EPA Screw Neck Vial, 57 x27.5mm, clear glass, 1st hydrol. class	20ml EPA Screw Neck Vial, 57 x27.5mm, amber glass, 1st hydrol. class	30ml EPA Screw Neck Vial, 72,5x 27,5mm, clear glass, 1st hydrol. class	30ml EPA Screw Neck Vial, 72,5x 27,5mm, amber glass, 1st hydrol. class	30ml EPA Screw Neck Vial, 72,5x 27,5mm, clear glass, 1st hydrol. class	40ml EPA Screw Neck Vial, 95 x 27,5mm, amber glass, 1st hydrol. class	60ml EPA Screw Neck Vial, 140 x 27,5mm, clear glass, 1st hydrol. class	60ml EPA Screw Neck Vial, 140 x 27,5mm, amber glass, 1st hydrol. class
Filling Capacity	23,3	23,3	31,1	31,1	42,9	42,9	64,4	64,4
Residual volume	0,5	0,5	0,7	0,7	0,7	0,7	0,7	0,7

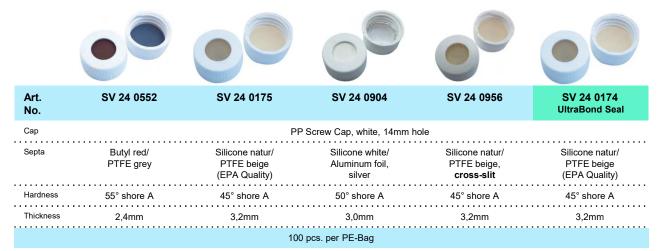
100 pcs.per PP-Box

12.2 PP Screw Seals ND24

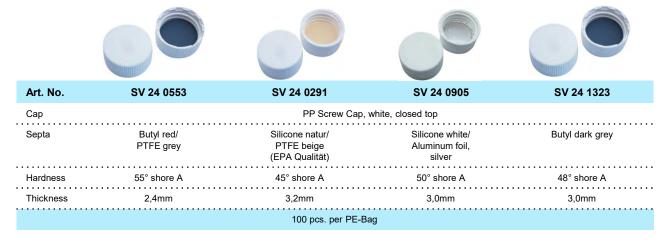
- ▶Ready to use combination seals; no timeconsuming and "tricky" assembly.
- Available as closed top screw seals or with centre hole in white 24-400 caps.
- >Broad variety of different septa materials for almost all applications.
- Also UltraBond Seals ND24 are offered, i.e. that the cap and the Silicone/PTFE liner of these seals form an inseparable unit avoiding the problem of liners falling out of the cap. This 100% firm fit of the liner is achieved by a patented process that requires no adhesives, but instead changes the molecular structure of both components to achieve the fixation.



12.2.1 PP Screw Seals ND24, with hole

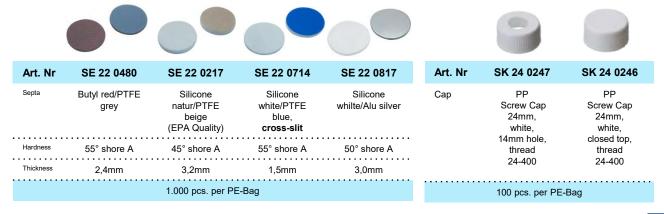


12.2.2 PP Screw Seals ND24, closed top



12.3 Septa 22mm

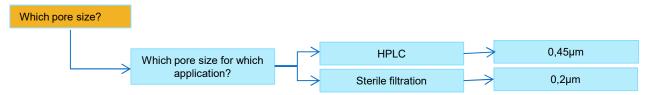
12.4 PP Screw Cap ND24



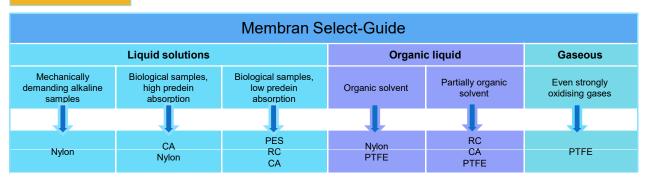
13. HPLC Syringe filters



- > Ultrasonic welded HPLC syringe filters with high-quality polypropylene housings for sample volumes from 1.0ml to 100ml. An improved welding technique ensures a significantly increased pressure resistance of the PP housings of up to 7 bar
- For direct identification our filters are labelled with the respective membrane type and pore
- > The Luer-Lock inlet (female) ensures easy and safe installation of the filter on the syringe
- CHROMA syringe filters are available in diameters of 15mm, 25mm and 30mm
- ➤ Pore sizes 0.2µm or 0.45µm
- >On request with prefilter and/or as sterile version



Which membrane?



13.1 15mm HPLC Syringe filters

- >15mm syringe filter for small sample volumes
- ➤ Dead volume < 0,25ml
- >Operating pressure: 7 bar
- > Effective filter area: 1,77cm²
- For direct identification our filters are labelled with the respective membrane type and pore size
- The Luer-Lock inlet (female) ensures easy and safe installation of the filter on the syringe

Art. No.	Description	
FI 17 0973	15mm HPLC Syringe filter, PTFE, 0,20μm	
FI 17 0974	15mm HPLC Syringe filter, PTFE, 0,45μm	
FI 17 0967	15mm HPLC Syringe filter, CA, 0,2μm	
FI 17 0968	15mm HPLC Syringe filter, CA, 0,45µm	
FI 17 0969	15mm HPLC Syringe filter, Nylon, 0,2µm	0.0
FI 17 0970	15mm HPLC Syringe filter, Nylon, 0,45µm	
FI 17 0971	15mm HPLC Syringe filter, PES, 0,2μm	
FI 17 0972	15mm HPLC Syringe filter, PES, 0,45µm	AC ON
FI 17 0975	15mm HPLC Syringe filter, PVDF, 0,2μm	
FI 17 0976	15mm HPLC Syringe filter, PVDF, 0,45µm	
FI 17 0961	15mm HPLC Syringe filter, RC, 0,2µm	
FI 17 0962	15mm HPLC Syringe filter, RC, 0,45μm	
	100 pcs. per PE-Bag	

13.2 25mm HPLC Syringe filter

- ▶25mm Syringe filter for sample volumes up to 100ml
- ➤ Dead volume < 0,65ml
- ➤ Operating pressure: max. 7 bar
- ➤ Effective filter area: 490mm²
- ▶ For direct identification our filters are labelled with the respective membrane type and pore size
- >The Luer-Lock inlet (female) ensures easy and safe installation of the filter on the syringe

Art. No.	Description				
FI 25 0417	25mm HPLC Syringe filter, PTFE, 0,20μm				
FI 25 0418	25mm HPLC Syringe filter, PTFE, 0,45μm				
FI 25 0942	25mm HPLC Syringe filter, CA, 0,2μm				
FI 25 0720	25mm HPLC Syringe filter, CA, 0,45μm				
FI 25 0421	25mm HPLC Syringe filter, Nylon, 0,2μm				
FI 25 0383	25mm HPLC Syringe filter, Nylon, 0,45μm				
FI 25 0963	25mm HPLC Syringe filter, PES, 0,2μm				
FI 25 0964	25mm HPLC Syringe filter, PES, 0,45μm				
FI 25 0965	25mm HPLC Syringe filter, PVDF, 0,2μm				
FI 25 0966	25mm HPLC Syringe filter, PVDF, 0,45μm				
FI 25 0419	25mm HPLC Syringe filter, RC, 0,2μm				
FI 25 0420	25mm HPLC Syringe filter, RC, 0,45μm				
100 pcs. per PE-Bag					

13.3 30mm HPLC Syringe filter

- ➤30mm Syringe filter for sample volume > 100ml, or fast filtration
- ≻Dead volume < 175µl
- ➤ Operating pressure: max. 7 bar
- ➤ Effective filter area: 707mm²
- For direct identification our filters are labelled with the respective membrane type and pore size
- The Luer-Lock inlet (female) ensures easy and safe installation of the filter on the syringe

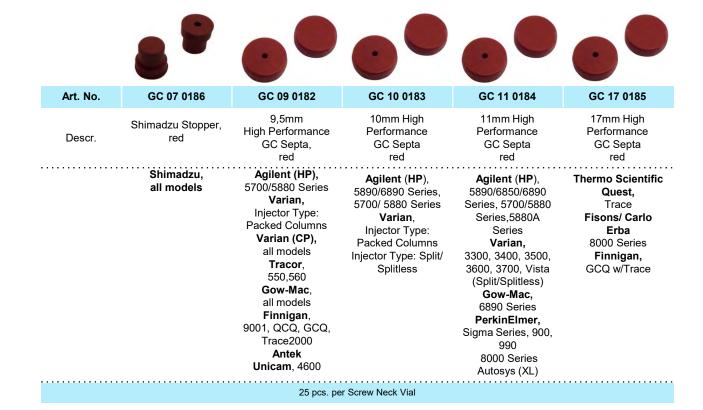
Art. No.	Description	
FI 30 1094	30mm HPLC Syringe filter, PTFE, 0,20μm	
FI 30 1095	30mm HPLC Syringe filter, PTFE, 0,45μm	
FI 30 1096	30mm HPLC Syringe filter, CA, 0,2μm	
FI 30 1097	30mm HPLC Syringe filter, CA, 0,45μm	
FI 30 1098	30mm HPLC Syringe filter, Nylon, 0,2μm	40
FI 30 1000	30mm HPLC Syringe filter, Nylon, 0,45μm	
FI 30 1099	30mm HPLC Syringe filter, PES, 0,2μm	PA 0.45 \$
FI 30 1100	30mm HPLC Syringe filter, PES, 0,45μm	
FI 30 1101	30mm HPLC Syringe filter, PVDF, 0,2µm	
FI 30 1102	30mm HPLC Syringe filter, PVDF, 0,45μm	
	100 pcs. per PE-Bag	

14. GC Injection Port Septa

- ➤ Long-life, universal GC septums: for a minimum of 450 injections
- Suitable for temperatures of up to 400 °C
- ➤ With "Center Guide" for better needle guidance
- >Low bleeding (outgassing of siloxanes)
- ➤ Excellent dissolving properties from the injection port

➤ Standard packaging of 25 pieces in resealable screw neck vial, on request also available in bulk packaging of 1,000 pieces





15. Injection Vials ND13

- ➤ High-quality injection bottles according to DIN/ISO made of tubular glass
- ➤ Production exclusively from glass of the 1st hydrolytic class
- ➤ Available in clear glass and amber glass
 ➤ Cleanroom-packed in a class 100,000 cleanroom, the "CleanPack" seal of quality guarantees this high quality standard



15.1 Injection Vials ND13









Art. No.	RR 13 0304	RR 13 0396	RR 13 0397	RR 13 0398
Descr.	2ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	2ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO	4ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	4ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO
Dimensions	35 x 16mm	35 x 16mm	45 x 16mm	45 x 16mm
Pack	352 pcs. per PP-Box		upon r	equest

15.2 Injection Stoppers ND13





Art. No.	SE 13 0305	SE 13 0670
Descr.	13mm Injection Stopper, Brombutyl, grey	13mm Freeze Drying Stopper, Brombutyl, grey
Hardness	45° shore A	
Pack	upon r	equest

15.3 Crimp Caps ND13



16. Injection Vial ND20

- ➤ High-quality injection bottles according to DIN/ISO made of tubular glass
- >Production exclusively from glass of the 1st hydrolytic class
- ➤ Available in clear glass and amber glass
 ➤ Cleanroom-packed in a class 100,000 cleanroom, the "CleanPack" seal of quality guarantees this high quality standard



16.1 Injection Vial ND20, clear glass









Art. No.	RR 20 0400	RR 20 0316	RR 20 0492	RR 20 0549
Descr.	6ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	10ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	20ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	30ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO
Dimension	40 x 22mm	45 x 24mm	55 x 30mm	75 x 30mm
Content	6ml	10ml	20ml	30ml
Pack	186 pcs. per PP-Box	154 pcs. per PP-Box	91 pcs. per PP-Box	upon request

16.2 Injection Vial ND20, amber glass









Art. No.	RR 20 0399	RR 20 0251	RR 20 0548	RR 20 0550
Descr.	6ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO	10ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO	20ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO	30ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO
Dimension	40 x 22mm	45 x 24mm	55 x 30mm	75 x 30mm
Content	6ml	10ml	20ml	30ml
Pack	186 pcs. per PP-Box	154 pcs. per PP-Box	91 pcs. per PP-Box	upon request

Injection Vials ND20 made of molded glass (cont.)

- ➤ High quality injection vials made of smelting glass according to DIN/ISO
- >According to Article 3.2.1 of the European Pharmacopoeia PH, corresponds to glass type I. Eur.
- ➤ Dust and germfree packaging
- Clear glass and amber glass vials available
 Filling volume from 20ml 100ml



16.3 Injection Vial ND20, clear glass (molded glass)









	The Laboratory			
Art. No.	RR 20 0405	RR 20 0409	RR 20 0385	RR 20 0390
Descr.	20ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	30ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	50ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO	100ml Injection Vial, 1. hydrol. class, clear glass, according to DIN/ISO
Dimension	58 x 32mm	62 x 36mm	73 x 42,5mm	94,5 x 51,6mm
Content	20ml	30ml	50ml	100ml
Pack	252 pcs.per PE-foil	90 pcs.per PE-foil	90 pcs.per PE-foil	88 pcs.per PE-foil

16.4 Injection Vial ND20, amber glass (molded glass)









Art. No.	RR 20 0406	RR 20 0410	RR 20 0411	RR 20 0412
Descr.	20ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO	30ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO	50ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO	100ml Injection Vial, 1. hydrol. class, amber glass, according to DIN/ISO
Dimension	58 x 32mm	62 x 36mm	73 x 42,5mm	94,5 x 51,6mm
Content	20ml	30ml	50ml	100ml
Pack	252 pcs.per PE-foil	156 pcs.per PE-foil	130 pcs.per PE-foil	88 pcs.per PE-foil

16.5 Injection Stoppers ND20

>Suitable injection stoppers for injection vials made of tubular and smelting glass ND20



16.6 Aluminum Crimp Cap ND20

16.6.1 Flip-Off - Centre Tear-Off Crimp Caps ND20 (tamper-evident crimp caps)

- >Tamper-evident hole caps; tear-off plastic centre part prevents unauthorized manipulation of the samples
- > Easier, faster and safer to open than conventional centre tear-off caps with aluminum centre part
- > Available from stock in various colors to enable sample differentiation



16.6 Aluminum Crimp Caps ND20 (Cont.)

16.6.2 Centre Tear-Off Crimp Caps ND20 (tamper-evident crimp caps)

> Tamper-proof caps with holes; tear-off aluminum centre part prevents unwanted manipulation of the samples > Available from stock in various colors to enable sample differentiation



16.6.3 Complete Tear-Off Crimp Caps ND20 (tamper-evident crimp caps)

>Tamper-evident cap, which can be open completely by using a tear-off part and predetermined breaking lines on the side



16.6.4 Flip Tear-Up Caps ND20

>Tamper-evident cap, which can be open completely by using a tear-off part and predetermined breaking lines on the side



17 Infusion Vial ND32

- ➤ High-quality infusion vials according to DIN/ISO made of tubular glass
- ➤ Thigh quality lines for viais asserting to bill.
 ➤ Dust and germ-free packaging
 ➤ Clear glass and amber glass vials available
 ➤ Filling volumes from 70ml 1000ml



17.1 Infusion Vial ND32, clear glass









Art. No.	RR 32 0626	RR 32 0414	RR 20 0713	RR 32 1048
Descr.	100ml Infusion Vial, 1. hydrol. class, clear glass, according to DIN/ISO	250ml Infusion Vial, 1. hydrol. class, clear glass, according to DIN/ISO	500ml Infusion Vial, 2. hydrol. class, clear glass, according to DIN/ISO	1000ml Infusion Vial, 2. hydrol. class, clear glass, according to DIN/ISO
Dimension	104 x 49mm	136 x 66mm	177 x 78mm	230 x 95mm
Content	100ml	250ml	500ml	1000ml

17.2 Infusion Vial ND32, amber glass







Art. No.	RR 32 1178	RR 32 0627	RR 32 1161
Descr.	100ml Infusion Vial, 1. hydrol. class, amber glass, according to DIN/ISO	250ml Infusion Vial, 1. hydrol. class, amber glass, according to DIN/ISO	500ml Infusion Vial, 2. hydrol. class, amber glass, according to DIN/ISO
Dimension	104 x 49mm	136 x 66mm	177 x 78mm
Content	100ml	250ml	500ml

17. Infusion ND32 (Cont.)

17.3 Infusion Stoppers ND32



17.4 Crimp Caps ND32



18. Crimping Tools

- ➤ Easy and convenient handling
- Chemically 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 all Chroma Globe Crimping Tools are adjustable in crimping height
- by screwing up or down the pressure block in the crimping head with a hexagon key.
- The crimper sizes depend on the inner diameter of the respective crimp caps



Crimper for Aluminum Crimp Caps

➤ Crimper for aluminium crimp caps are designed for a variety of cap types

Following are the most common types of caps:

- · Standard aluminium crimp caps with hole
- Headspace crimp caps with pressure release system
- · Centre tear-off caps
- Complete tear-off cap

Art. No.	Description	Cap Type (exemplary)
CR 07 0020	Crimper for 7.5mm Aluminum Crimp Cap	
CR 08 0001	Crimper for 8mm Aluminum Crimp Cap	
CR 11 0003	Crimper for 11mm Aluminum Crimp Cap	
CR 13 0005	Crimper for 13mm Aluminum Crimp Cap	
CR 20 0007	Crimper for 20mm Aluminum Crimp Cap	
CR 28 0009	Crimper for 28mm Aluminum Crimp Cap	
CR 30 0056	Crimper for 30mm Aluminum Crimp Cap	
CR 32 0010	Crimper for 32mm Aluminum Crimp Cap	
	1 piece per Box	

Crimper for Flip-Off Crimp Caps

- > Flip-off Crimper are suitable for our tamper-evident flip-off caps with tear-off plastic centre part (see caps in chapter 16.6.1 on page 47)
- > Caution: Meanwhile there are a number of crimped caps on the market that come very close to our flip-off caps in terms of their centre tear-off function and appearance. Please note that even the smallest deviations in cap geometry have an effect on the sealing properties of our Crimper. Therefore please pay attention to the "Flip-off" writing on the crimping caps

Art. No.	Description	Cap Type (exemplary)
CR 11 0021	Crimper for 11mm Flip-off Cap	
CR 13 0013	Crimper for 13mm Flip-off Cap	
CR 16 0062	Crimper for 16,5mm Flip-off Cap	
CR 20 0015	Crimper for 20mm Flip-off Cap	
CR 28 0025	Crimper for 28mm Flip-off Cap	
CR 30 0026	Crimper for 30mm Flip-off Cap	
CR 32 0440	Crimper for 32mm Flip-off Cap	
	1 piece per Box	

Crimper for Combination Caps

Art. No.	Description	Cap Type (exemplary)
CR 13 0545	Crimper for 13mm combination caps	
	1 piece per Box	

Crimper for Flip-Tear-Up Crimp Caps

- > Flip Tear Up Crimper are suitable for our tamper-evident Flip Tear Up Cap, which can be completely torn open on the side using a plastic tear-off part and predetermined breaking lines (complete tear-off function)
- > Decapping tools are therefore not required

Art. No.	Description	Cap Type (exemplary)
CR 13 0014	Crimper for 13mm Flip Tear Up Cap	THE REAL PROPERTY.
CR 20 0016	Crimper for 20mm Flip Tear Up Cap	
	1 piece per Box	

Crimper for Flip-Top with flush sides Crimp Caps

Art. No.	Description	Cap Type (exemplary)
CR 28 0064	20mm Crimper for Flip top with flush sides crimp caps	
	1 piece per Box	

Crimper for 3 pc Tear-Off Crimp Caps

Art. No.	Description	Cap Type (exemplary)
CR 28 0053	Crimper for "3 pc Tear off" Crimp Caps	
	1 piece per Box	

Crimper for Pump-Spray Crimp Caps (atomizers)

Art. No.	Description	Cap Type (exemplary)
CR 15 0022	Crimper for 15,5mm "spray pump" Seals	
CR 16 0023	Crimper for 16,5mm "spray pump" Seals	
CR 20 0024	Crimper for 20mm "spray pump" Seals	
	1 piece per Box	

18.2 Crimper for clean room applications

- > The crimping/decapping mechanism is corrosion and heat resistant, making applications possible directly in the clean room
- Even multiple applications do not cause damage to the tool
- ➤ Available in sizes from 7,5mm 32mm
- ➤ Crimpers and Decappers are available
- ➤ Can optionally be equipped with special handles for better grip (also autoclavable; temperature resistance up to 150° C)
- Adjustable in the flare pressure limitation by means of adjusting screw in the handle
- >Additionally all CHROMA Crimpers are height adjustable in the crimp head



Crimper for Aluminium Crimp Caps

- >Crimper for aluminium crimp caps are designed for a variety of cap types
 - Following are the most common types of caps:

- · Standard aluminium crimp caps with hole
- · Headspace crimp caps with pressure release system
- · Centre tear-off caps
- · Complete tear-off cap

Art. No.	Description	Cap Type (exemplary)
CR 08 0253	Crimper for 8mm Aluminum Crimp Cap	
CR 11 0220	Crimper for 11mm Aluminum Crimp Cap	
CR 13 0221	Crimper for 13mm Aluminum Crimp Cap	
CR 20 0219	Crimper for 20mm Aluminum Crimp Cap	
CR 28 0267	Crimper for 28mm Aluminum Crimp Cap	
CR 30 0271	Crimper for 30mm Aluminum Crimp Cap	
CR 32 0274	Crimper for 32mm Aluminum Crimp Cap	
	sterilisable for clean room applications	
	1 piece per Box	

Crimper for Flip-Off Crimp Caps

- > Flip-off Crimper are suitable for our tamper-evident flip-off caps with tear-off plastic centre part (see caps in chapter 16.6.1 on page 48)
- >Caution: Meanwhile, there are a number of crimp caps on the market that come very close to our flip-off caps in terms of their centre tear-off function and appearance. Please note that even the smallest deviations in cap geometry have an effect on the sealing properties of our flanging pliers. Therefore please pay attention to the "Flip-off" writing on the crimping caps.

Art. No.	Description	Cap Type (exemplary)
CR 13 0257	Crimper for 13mm Flip-Off Cap	
CR 20 0263	Crimper for 20mm Flip-Off Cap	1999
CR 28 0269	Crimper for 28mm Flip-Off Cap	
CR 30 0273	Crimper for 30mm Flip-Off Cap	
CR 32 0444	Crimper for 32mm Flip-Off Cap	
	sterilisable for clean room applications	
	1 piece per Box	

Crimper for "Flip-Tear-Up" Crimp Caps

> Flip Tear Up crimper are suitable for our tamper-evident Flip Tear Up Cap, which can be torn open completely by means of a plastic tear-off piece and predetermined breaking lines on the side (complete tear-off function)

> Decapper are therefore not required

Art. No.	Description	Cap Type (exemplary)
CR 13 0258	13mm crimper for Flip Tear Up Cap, height adjustable	THE TATE OF
CR 20 0265	20mm crimper for Flip Tear Up Cap, height adjustable	FLUE
	sterilisable for clean room applications	
	1 piece per Box	

Crimper for Flip-Top with flus sides Crimp Caps

Art. No.	Description	Cap Type (exemplary)
CR 20 0264	20mm crimper for Flip-off with flush sides, height adjustable, for clean rooms, (sterilisable and autoclavable)	
	sterilisable for clean room applications 1 piece per Box	

Crimper for 3 pc Tear-Off Crimp Caps

Art. No.	Description	Cap Type (exemplary)
CR 28 0270	28mm crimper for "3 pc tear off" Caps, height adjustable	
	sterilisable for clean room applications	
	1 piece per Box	

Crimper for Pump-Spray Crimp Caps (atomizer)

Art. No.	Description	Cap Type (exemplary)
CR 15 0259	15,5mm crimper for Pump Spray closures, height adjustable	
CR 16 0260	16,5mm crimper for Pump Spray closures, height adjustable	100
CR 18 0493	18mm crimper for Pump Spray closures, height adjustable	
CR 20 0266	20mm crimper for Pump Spray closures, height adjustable	
	sterilisable for clean room applications	-
	1 piece per Box	

18.3 Manual Decapping Tools

18.3.1 Decapper for Aluminum Crimp Caps

- ➤ Easy and convenient handling
- ➤ Chemical resistant powder coating
- >High quality construction for durability and long life
- >Adjustable in the crimping pressure limitation by means of adjusting screw in the handle



Art. No.	Description	Cap Type (exemplary)
DC 08 0002	8mm decapper	
DC 11 0004	11mm decapper	
DC 13 0006	13mm decapper	
DC 20 0008	20mm decapper	
DC 28 0011	28mm decapper	
DC 30 0027	30mm decapper	
DC 32 0012	32mm decapper	
	1 piece per Box	

18.3.2 Cleanroom Deacappers for Aluminium Crimp Caps

Art. No.	Description	Cap Type (exemplary)
DC 08 0254	8mm decapper, sterilisable for clean room applications	
DC 11 0255	11mm decapper, sterilisable for clean room applications	2
DC 13 0256	13mm decapper, sterilisable for clean room applications	
DC 20 0262	20mm decapper, sterilisable for clean room applications	
DC 28 0268	28mm decapper, sterilisable for clean room applications	
DC 30 0272	30mm decapper, sterilisable for clean room applications	
DC 32 0231	32mm decapper, sterilisable for clean room applications	
	1 piece per Box	

18.3.3 Opening Pliers

- ➤Simple and convenient handling
- ➤ Inexpensive alternative for deacappers
- >Made of stainless steel, therefore also sterilisable and autoclavable



Art. Nr	Description			
ÖS 08 0150	opening pliers, sterilisable for clean room applications			
ÖS 11 0151	opening pliers, sterilisable for clean room applications			
ÖS 13 0152	opening pliers , sterilisable for clean room applications			
ÖS 20 0070	opening pliers, sterilisable for clean room applications			
ÖS 30 0153	opening pliers, sterilisable for clean room applications			
	1 piece per Box			

18.4 Manual Table Crimper

- >Manually operated crimping and decapping tool
- ➤ User-friendly handling, the bottle is crimped or de-crimped by operating the hand lever
- >Exchangeable crimping and decapping heads are available in almost 100 sizes (see chapter crimping and decapping heads on page 48f.) ➤ No tools necessary for changing the crimping heads
- Ideal use in combination with our CHROMA POWER CRIMPER, as the crimping and decapping heads fit on both machines
- >Adjustable, constant and reproducible crimping pressure

Overview of our 6 available models

· Ideal use in combination with the CHROMA TABLE CRIMPER as the crimping and decapper heads fit on both units

Art. No.	Workspace	Height	Weight
TC 00 0312	Steel; 25,4 x 30,5cm	45,72cm	9,5kg
TC 00 0212	Steel; 20,3 x 25,4cm	35,56cm	7,4kg
TC 00 0310	Granite; 25,4 x 30,5cm	48,9cm	10,9kg
TC 00 0531	Granite; 20,3 x 25,4cm	38,75cm	8,4kg
TC 00 0311	Stainless steel; 25,4 x 30,5cm	45,72cm	9,5kg
TC 00 0213	Stainless steel; 20,3 x 25,4cm	35,56cm	7,4kg

1 piece per Box









18.5 Pneumatic Crimping Tool

18.5.1 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
- > Exchangeable crimping and decapping heads are available in almost 100 sizes (see chapter 18.5.1.1 crimping and decapping heads on page 58f.) ➤ No tools necessary for **changing the crimping heads**
- Ideal use in combination with our CHROMA POWER CRIMPER, as the crimping and decapping heads fit on both machines
- >Adjustable, constant and reproducible crimping pressure



Art. No.	Art. No.	Art. No.
PC 00 0066	PC 00 0578	PC 00 0592
Pneumatic Basic Crimping Tool, including pressure regulator, safety valve and Nylon (PA) twisted hose (Basic version)	Hanging device with balancer for pneumatic crimping tool (Optional)	Stand, foot pedal and compressed air hose for pneumatic crimping tool (Optional)
1 piece	1 piece	1 piece

18.5.1.1 Crimping Heads for Pneumatic Crimping Tool and Table Crimper

- >Exchangeable crimping and decapping heads for CHROMA table crimper and/or CHROMA POWER CRIMPER
- ➤ With about 100 different sizes we cover almost every need (separate sale)
- >No tools are required to change to another size or device.



18.5.1.1 Crimping Heads (Cont.)

Crimping Heads for Aluminum Crimp Caps

Art.	CR 07 0028	CR 08 0029	CR 11 0030	CR 13 0031	CR 20 0032	CR 28 0044	CR 30 0033	CR 32 0034
							9	
Descr.	C-Head for 7.5mm Alu Crimp Caps	C-Head for 8mm Alu Crimp Caps	C-Head for 7.5mm Alu Crimp Caps	C-Head for 13mm Alu Crimp Caps	C-Head for 20mm Alu Crimp Caps	C-Head for 28mm Alu Crimp Caps	C-Head for 30mm Alu Crimp Caps	C-Head for 32mm Alu Crimp Caps
Pack				1 piece	per Box			

Crimping Heads for Flip-off Crimp Caps

Art.	CR 11 0035	CR 13 0036	CR 16 0063	CR 20 0037	CR 28 0038	CR 30 0057	CR 32 0039
Descr.	C-Head for 11mm Flip-off Crimp Cap	C-Head for 13mm Flip-off Crimp Cap	C-Head for 16mm Flip-off Crimp Cap	C-Head for 20mm Flip-off Crimp Cap	C-Head for 28mm Flip-off Crimp Cap	C-Head for 30mm Flip-off Crimp Cap	C-Head for 32mm Flip-off Crimp Cap
Pack				1 piece per Box			

Other Crimping Heads





18.5.1.2 Decapping Heads

Art.	DC 08 0040	DC 11 0041	DC 13 0042	DC 20 0043	DC 28 0045	DC 30 0046	DC 32 0047
Descr.	D-Head for 8mm Alu Crimp Caps	D-Head for 11mm Alu Crimp Caps	D-Head for 13mm Alu Crimp Caps	D-Head for 20mm Alu Crimp Caps	D-Head for 28mm Alu Crimp Caps	D-Head for 30mm Alu Crimp Caps	D-Head for 32mm Alu Crimp Caps
Pack				1 piece per Box			

18.5.2 Vertical Pneumatic Crimping Tool

- >Crimping and decapping tool operated by compressed air
- > User-friendly handling, the vial is crimped or decapped by pressing the release button
- > Exchangeable crimping and decapping heads (sold separately) for the following sizes and cap types
- >No tools are required to change to another size or type of cap
- >Space-saving installation by using a suspension device; spring balancer compensates the weight and guarantees smooth and precise closing or opening
- >Adjustable, constant and reproducible crimping pressure



Art.

VC 00 0368

VC 00 0729

Vertical pneumatic crimping machine;
Descr.

Vertical pneumatic crimping machine;
includes the basic unit and a pressure reducer,
for vertical pneumatic crimping tool

Pack 1 piece per Box

a safety valve and a suitable compressed air hose

18.5.2.1 Crimping Heads for Vertical Pneumatic Crimping Tool

- ➤ Crimping heads are available for Standard Aluminum Crimp Cap and Flip-Off Crimp Cap in sizes 8mm 20mm
- ➤ Sorted by size below



Art.	CV 08 0369	CV 11 0371	CV 13 0373	CV 13 0374	CV 20 0376	CV 20 0377
Сар						
Descr.	C-Head for 8mm Alu Crimp Caps	C-Head for 11mm Alu Crimp Caps	C-Head for 13mm Alu Crimp Caps	C-Head for 13mm Flip-off Crimp Cap	C-Head for 20mm Alu Crimp Caps	C-Head for 20mm Flip-off Crimp Cap
Pack			1 piece	per Box		

18.5.2.2 Decapping Heads for Vertical Pneumatic Crimping Tool

➤ Decapping heads for Aluminum Crimp Cap are available in the sizes 8mm - 20mm

➤ Sorted by size below

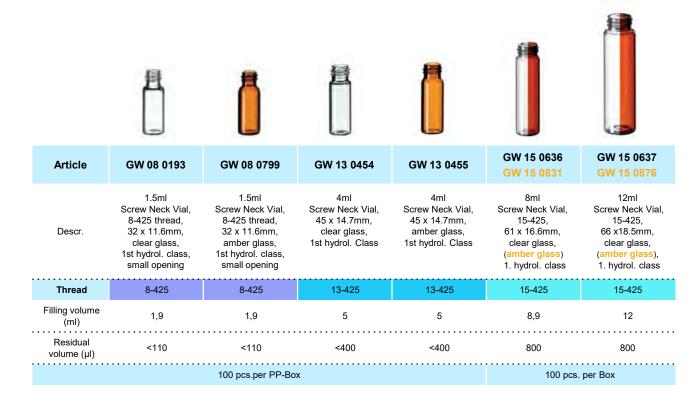


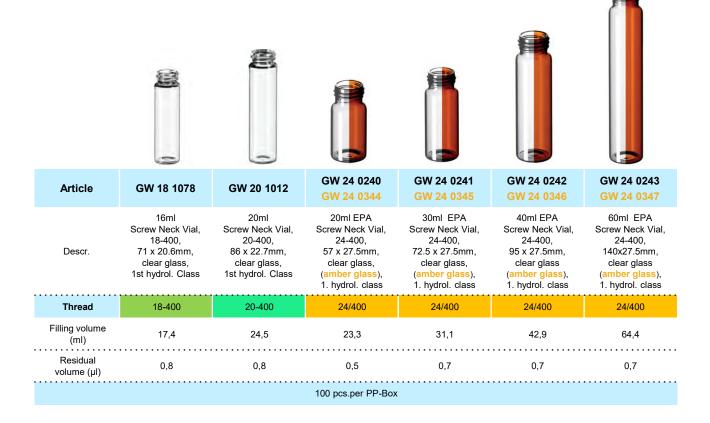
Art.	DV 08 0370	DV 11 0372	DV 13 0375	DV 20 0391
Сар				
Descr.	D-Head for 8mm Alu Crimp Caps	D-Head for 11mm Alu Crimp Caps	D-Head for 13mm Alu Crimp Caps	D-Head for 20mm Alu Crimp Caps
Pack		1 piece _l	per Box	

19. Screw Neck Vials and Seals for Storage Purposes

- > Screw Neck Vials for storage purposes made out of 1st hydrol. class glass
- > Clear and amber Vials available

19.1 Screw Neck Vials for Storage Purposes

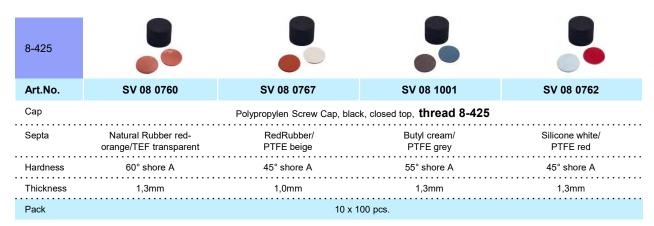




19.2 PP Screw Seals for Storage Vials

- > Seals available with numerous septa materials
- ➤ Cost-effective seal variations with maximum tightness

PP Screw Seals for ND8, ND13, ND15, ND18, ND20 and ND24



13-425				
Art. No.	SV 13 0488	SV 13 0489	SV 13 0805	SV 13 1329
Сар		Polypropylen Screw Cap, bla	ck, closed top, thread 13-425	
Septa	Natural Rubber red- orange/ TEF transparent	Butyl ceme/ PTFE grey	Silicone white/ PTFE red	Butyl dark grey
Hardness	60° shore A	55° shore A	55° shore A	48° shore A
Thickness	1,3mm	1,3mm	1,5mm	2mm
Pack		10 x	100 pcs.	

15-425					
Art. No.	SV 15 0594	SV 15 0638	SV 15 0884	SV 15 0878	SV 15 1327
Сар		Polypropylen Sc	crew Cap, black, closed top,	thread 15-425	
Septa	Natural Rubber red-orange/TEF transparent	Butyl red/ PTFE grey	Viton, black	Silicone white/ Aluminum foil silver	Butyl dark grey
Hardness	60° shore A	55° shore A	70° shore A	50° shore A	48° shore A
Thickness	1,3mm	1,6mm	1,0mm	1,3mm	2mm
Pack			10 x 100 pcs.		

19.2 PP Screw Seals for Storage Vials (Cont.)

18-400			
Art. No.	SV 18 1300	SV 18 1303	SV 18 1304
Сар	Polypro	pylen Screw Cap, black, closed top , threac	I 18-400
Septa	Butyl cream/PTFE grey	Silicone white/PTFE red	Butyl dark grey
Hardness	55° shore A	55° shore A	48° shore A
Thickness	1,6mm	1,5mm	3mm
Pack		10 x 100 pcs.	

20-400			
Art. No.	SV 20 1017	SV 20 1021	SV 20 1330
Сар	Polypro	opylen Screw Cap, white, closed top , threa	d 20-400
Septa	Natural Rubber red-orange/TEF transparent	Butyl cream/ PTFE grey	Silicone white/ PTFE red
Hardness	60° shore A	55° shore A	45° shore A
Thickness	1,3mm	1,3mm	1,3mm
Pack		10 x 100 pcs.	

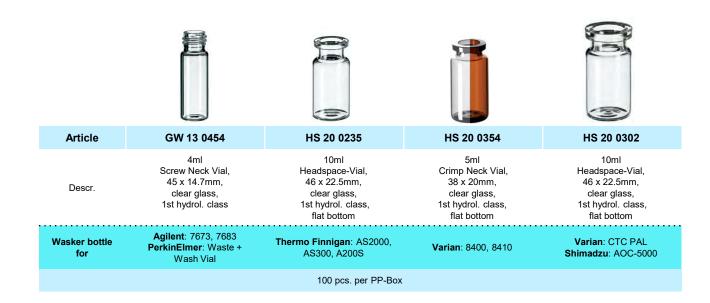
24-400				
Art. No.	SV 24 0553	SV 24 0905	SV 24 1323	SV 24 0291
Сар		Polypropylen Screw Cap, wh	ite, closed top, thread 24-400)
Septa	Butyl red/PTFE grey	Silicone white/Aluminum foil silver	Butyl dark grey	Silicone natur/PTFE beige (EPA Quality)
Hardness	55° shore A	50° shore A	48° shore A	45° shore A
Thickness	2,4mm	3,0mm	3mm	3,2mm
Pack		10 >	(100 pcs.	

20. Washer Bottles

> Wash bottles made of glass of the 1. hydrol. class

20.1 Washer Bottles

As the sensitivity of the analytical instruments increases, the cleaning and rinsing process of the syringe, which takes the sample from the autosampler vial and then injects it, becomes more and more important. To prevent carry-over from one sample to another, the syringe must be rinsed after each injection. The bottles in which the solvent for rinsing is provided are the so-called wash bottles.



20.2 Washer Bottles Seals

- >On request numerous septa variants are available!
- >Below are the most common wash bottle seals



21. Septa for Schott Screw Caps GL14 - GL45

➤ Washed replacement septa for thread screw cap GL14-GL45

Especially for Schott ScrewCap made of Silicone white/ PTFE beige in 3,2mm thickness or of Butyl red/ PTFE grey with 2,5mm thickness

Silicone white/PTFE beige

Art.	SE 12 0986	SE 16 0849	SE 23 0987	SE 30 0988	SE 43 0738
Descr.	12,5mm Septa, Silicone natur/ PTFE beige for GL14	16,7mm Septa, Silicone natur/ PTFE beige for GL18	23,4mm Septa, Silicone natur/ PTFE beige for GL25	30,3mm Septa, Silicone natur/ PTFE beige for GL32	43,2mm Septa, Silicone creme/ PTFE beige for GL45
Hardness	45° shore A	45° shore A	45° shore A	45° shore A	55° shore A
Thickness	3,2mm	3,2mm	3,2mm	3,2mm	3,2mm
Pack			100 pcs. per PE-Bag		

Butyl red/PTFE grey

Art.	SE 12 0989	SE 16 0990	SE 23 0991	SE 30 0992	SE 45 0993
Descr.	12,9mm Septa, Butyl red/PTFE grey for GL14	16,7mm Septa, Butyl red/PTFE grey for GL18	23,4mm Septa, Butyl red/PTFE grey for GL25	30,3mm Septa, Butyl red/PTFE grey for GL32	43,2mm Septa, Butyl red/PTFE grey for GL45
Hardness	55° shore A				
Thickness	1,6mm	1,6mm	2,5mm	2,5mm	2,5mm
Pack			100 pcs. per PE-Bag		

22. Special Products

- > Special products can be carried out in every area of our delivery programme
- Special products are not necessarily stock items and may therefore require certain minimum purchase quantities

22.1 Special Vials







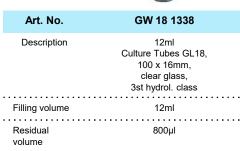


Art. No.	RR 11 0472	KG 09 1237	FB 22 1315	GW 40 1040
Description	2.5ml Crimp Neck Vial, 41 x 11.6mm, clear glass, 1st hydrol. class, wide opening	2.5ml Short Thread Vial, 41 x 11.6mm, clear glass, 1st hydrol. class, wide opening	13ml Shell Vial, 48 x 22mm, clear glass, 1st hydrol. class, Special bottom for NIR measurements	100ml Cylindrical glass,, 93,5 x 49mm, clear glass, 3st hydrol. class, Thread DIN40
Filling volume (ml)	2,7	2,7	13	115,5
		100 pcs.per PP-Box		63 pieces

22.2 Culture Tubes

- >NEW: Culture tubes and matching GL18 PP Screw Seals with inexpensive autoclavable sealing septa made of butyl or butyl/PTFE
- >Optionally available as practical 2in1 kits (100 vials and 100 seals per carton)









Art. No.	SV 18 1296	SV 18 1339
Сар	PP Screw Cap, black, closed top for Culture Tubes (GL18)	PP Screw Cap, black, closed top for Culture Tubes (GL18)
Septa	Butyl dark grey	Butyl red/PTFE grey
Hardness	48° shore A	55° shore A
Thickness	3mm	1,6mm
	100 pcs. p	per PE-Bag

100 pcs. per Box



liture Tubes as pra	cticai zina kits	7/11/4
		(8)
rt. No.	Art. No. Vials	E -

Art. No. 2in1 Kit	Art. No. Vials	Art. No. Seals
KP 18 1340	GW 18 1338	SV 18 1296
KP 18 1341	GW 18 1338	SV 18 1339
	each 100 Vials and Seals per Bo	

	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollrand ND8	Rollrand ND9	Rollrand ND8	Ratirand NDB	Rollrand NDB	Rollrand NDB	Gewinde ND®	Gewinde ND8	Kurzgewinde	Gewinde ND10	Holirand ND11	Rothand ND 11	Rollrand NO:11
CHR	OMA GLOBE	RR 08 0326 RR 08 0327	RR 08 0328	RR 08 0329 RR 09 0330	RR 08 0331 RR 09 0332	RR 08 0317 RR 08 0333	RE 08 0334	GW 08 0193 GW 08 0793 GW 08 0194 GW 08 0185	GW 08 0356	KG 09 0196 KG 09 0197 KG 09 0188 KG 09 0362 KG 09 0365	GW 10 0451 GW 10 0452 GW 10 0453	RR 11 0478 RR 11 0176 RR 11 0198 RR 11 0198 RR 11 0292 RR 11 0294	RA 11 0366	RR 11 0367
		Kapitel 1 Selle 8	Kapitel 1 Sale 8	Kaptel (Selle 8	Kapitel I Selle 8	Kapilul 1 Sulls à	Kapital 1 Sella 8	Kapitel 2 Selle 10	Kapitel 2 Selle 10	Kapitel 3 Set e 13	Kapitel 4 Selle 17	Kapitel 5 Solu 19	Kapitel 5 Solle (9	Kapitel 5 Sette 19
Aglent Aglent	1050 1050 (3d Pos Tray)				x	_				X		X		
Agilent	1050 (36 FGS 17ay)									x		x		
Adlera	1090 (34 Pos Tray)				X					- "				
Aglent	1100									X		X		
Agilent	1200									X		X		
Agilent Agilent	G1888A 7673A	-		-	x	-	-	-	-	x		x		
Agilent	7583A				X		x			X		X		
Agilent	HS7694													
Agilent	7695A								-					
Agilorii	79855(A)									X		X		
Aglent Aglent	5880 5890									X		X		
Aglerii	8850 (27 Pos. Tray)									x		X		
Agilent	6850 (22 Pos Tray)													
Aglent	6890									X		X		
Agilent Agilent	CTC HTS+HTC PAL CTC GC PAL	X			X	X				X		X		
Aglent Aglent	CTC Combi PAL				Α.									
Agilent	Tekmar SOLATek72													-
Agilent	Archon Pluge + Trap											-		
Agilent	AQUATok 70													
Agilent Agilent	7693A HS7694			-				X		-		X		
Agilent	7897A													
Al	42 vial tray							х	X	х		x		х
Al	60 vial tray		X	Х	X			Х		X		х		
Al Al	CTC A200S	х				x		x		X.		X		-
AIM	Headspace CPS-100							x		x		x		
AIM	GPS-200							X		X		x		
Alcott	708 AL													
Alcott	728	1												(T
Alcon	738 719 AL							X		X	X	X		
Algorit Algorit	749 D / D-POS			_			_	X		X	X	X X		
Analytik Jena	multi N/C 3000 (TOG)													-
Antec Leyden Antek	AS 100 736 Unisampler							X		X	X	X		
Antek	738							x		x	x	X		
Beckman	501				X			X		X	х	х		
Beckman	502 / 5020				Х			X		X	X	X		
Beckman Beckman	504 507/507e	Х			x	X		x	X	x	×	x		
Beckman	508 (System Gold)							^	^	X	^	^		
Beckman	Marathon							x	х	X		х		х
Beckman	Promis							х	x	x		х		х
Beckman	Triaihlon Standard Tray							X	х	Х		Х		X
Beckman Beckman	Triathlon LSV Tray Triathlon Super-LSV Tray				х									
Beckman	Triathlon Micro-Tray	x				x								
Bruker	LC51													
Cambridge	205 Series							X		X	X	Х		
Cambridge Carlo Caba	300 Series	~				-	-	X	-	X	X	X		-
Carlo Erba Carlo Erba	AS100 AS200	X			X	X		X X	X	X		X		X
Carlo Erba	A200LC	X				X		X	x	X		X		X
Carlo Erba	AS200S	X				x		X	x	X		X		X
Carlo Erba	A\$300	X			x	x		x	x	X		X		х
Carlo Erba Carlo Erba	AS800, 42 vial tray AS800, 60 vial tray		X	x	x			X		X		X		X
Carlo Erba	HS250		-											
Carlo Erba	HS500											-		
Carlo Erba	HS800													
Carlo Erba Cecil Instruments	HS850 CE4800			-				x		x	x	x		
Cecil Instruments	AutoQuest							^	X	^	X	X	x	
CTC (LEAP)	LC PAL (216 Pos.)							x	X	x	X	x		x
CTC (LEAP)	HTX PAL, HTC PAL, HTS PAL (200	х			-									
	Pos Tray) HTX PAL, HTC PAL, HTS PAL			-	77				-	-		-		
CTC (LEAP)	(54/98 Pos. Tray)				X			Х	X	X	x	X		х
CTC (LEAP)	HTX PAL, HTC PAL, HTS PAL (82 Pos. Tray)													
TITLE (FEATE)				4	-	_	-	4						

Auto	A GLOBE GbR osampler- patibilitäts- bersicht	Rollrand ND1:	Schnappring NB11	Gewinde ND13	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Gewinde ND24 (EPA)
CHRON	AA GLOBE	HR 11 0472	SR 11 0200 SR 11 0201 SR 11 0202	GW 13 0454 GW 13 0456 GW 13 0457 GW 13 0466	HS 20 0238	HS 20 0302 HS 20 0350	HS 20 0239 HS 20 0352 HS 20 0207	HS 20 0235 HS 20 0236	HS 20 0237 HS 20 0353 HS 20 0351 HS 20 0732 HS 18 0238 HS 18 0238 HS 18 0234	HS 20 0354	HS 20 0355	GW 24 024 GW 24 034 GW 24 024 GW 24 034 GW 24 034 GW 24 034 GW 24 024
		Kapitel 5 Sello 15	Kapitel 6 Selte 24	Kaptel 7 Selle 26	Kapital 11 Selle 31	Kapitel 11 Selta 31	Kapitel 11 Saire 31	Kapitel 11 Selle 31	Kap. 10+11 Selle 201.	Kapitel 11 Seite 31	Kapital 11 Solio 31	Kapitel 12 Sate 39
Agilent 105 Agilent 105	0 0 (3d Pos Tray)		X									
Agilent 109	0		х									
Agilent 109 Agilent 110	0 (34 Pos. Tray)		x									
Agilent 120			X			-				-		
	888A			X				X.				
Agilent 767 Agilent 768							-					
	7694			X	-			x				
Agilent 769												Х
Agilent 798 Agilent 588	55(A)		х				-					
Aglient 589												
	0 (27 Pos Tray)											
Agilent 685 Agilent 689	0 (22 Pos Tray) 0			x			-	1				
	HTS+HTC PAL		x									
Agilent CTC	GC PAL											
	Gombi PAL mar SOLATek72					х	-	-	X		-	×
	non Puge + Trap											x
Agilent AQI	UATok 70		1 5 1									х
Agilent 769: Agilent HS7	3A 7694		X	X.				X				
Agilent 789				Α.		-		X				
42 v	rial tray	X										
	rial tray											
	CA200S idspace					x			x			
AIM GPS	3-100											
	S-200			3			-					
Mooti 708												
Mooti 738			х	1								
Nort 719 Nort 719	AL D/D/PCS		X	X	Х							
Analytik Jena mult	i N/C 3000 (TOG)		х									x
intec Leyden AS			X	1								
Antek 738			X									
Beckman 501			X									
Beckman 502 Beckman 504	/5020		x									
Section 2 Control Section 2	/507e		x									
	(System Gold)					х						
Beckman Mar Beckman Pror	athon		X									
	thion Standard Tray	х	X		x	x						
Beckman Tria	thlon LSV Tray			X				_				
	thion Super-LSV Tray thion Micro-Tray					x						
Bruker LC5				x								
Cambridge 205	Series			X								
Cambridge 300 Carlo Erba AS1	Series		x	×								
Carlo Erba AS2			^									
Carlo Erba A20	OLC .		х	11 11		5 5					-	
Darlo Erba AS2 Darlo Erba AS3	1005		x			-		-				
Carlo Erba AS8	100, 42 vial tray	Х										
	00, 60 vial tray					х						
Jano Erba HSS Jarlo Erba HSS						X						
Carlo Erba HS8	300					Х			х			
Carlo Erba HS8	850 4800					X		- 3	х			
	DQuest		X	x								
CTC (LEAP) LC I	PAL (216 Pos.)		x			x	1 1					
CTC (LEAP) HTX	(PAL, HTC PAL, HTS PAL (200 Tray)											
CTC (LEAP) HTX	(PAL, HTC PAL, HTS PAL		x			×						
TO U EARL HTX	98 Pos. Tray) CPAL, HTC PAL, HTS PAL (32		-			1		-	x			
Pos	: Tray) nb PAL (200 Pos. Tray), GC PAL		_				-		^			
OTC (LEAP)	Pos Tray)											

CH	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollrand ND8	Rollrand ND9	Rollrand ND8	Rollrand NDB	Rollrand NDB	Richmend NDB	Gewinde ND®	Gewinds ND8	Kurzgewinde ND9	Gewinde ND10	Rollrand ND11	Rollrand ND:11	Rollrand ND11
CHR	OMA GLOBE	RR 08 0326 RR 08 0327	RH 08 0328	RR 08 0329 RR 09 0330	RR 08 0331 RR 09 0332	RR 08 0917 RR 08 0333	RH 08 0334	GW 08 0193 GW 08 0793 GW 08 0194 GW 08 0195	GW 08 0356	KG 09 0197	GW 10 0451 GW 10 0452 GW 10 0453	RR 11 0176	RR 11 0366	RR 11.0
		Kapitel I Solle 8	Kapitel 1 Salle 8	Kapitel (Sellu 8	Kapitel I Seite 8	Kapilel 1 Sells 8	Kapital 1 Salta 8	Kapitel 2 Selle 10	Kapitel 2 Seila 10	Kapitel 3 Sets 13	Kapitel 4 Selle 17	Kapitel 5 Solu 19	Kapitel 5 Salle (9	Kapite Seita
TC (LEAP)	Combi PAL (98 Pos. Tray), GC PAL (98 Pos. Tray)				x					x		x		x
TO (LEAP)	Tray)			1						x		x		X.
TG (LEAP)	Combi PAL (32 Pos. Tray), GC PAL (32 Pos. Tray)													
TC (LEAP)	Combi PAL SPME Mode (32 Pos Tray)													
TC:	PAL HPLC Systems PAL Combi-xt-Ligid Mode	X						X		X	X	X		
TC TC	Combi-xt Headspace Option GC of Headspoe Option	x						x		x	x	X		
TC	PAL HTC-xi	X						х		X	x	X		
TC TC	HTS-at	X						X X	-	X	x	X		
TC	Combine SPME Options	^						_ ^		^		x		
TO	A200S	X				X		X		X	X	X		
TC	A200 LC: HS:500	X				Х		X	X	X	x	X		X
Dari	ALS 39 80									X		x		
Dari Dari	ALS 86 80 ALS 1000							-		X		X		
)ari	HS39 50											-		
Pari Pari	HS86 50 Master AS													
Dimatoe	2000									X		х		
Dionex	Gina 50			х						х		X		
Xenox	AS 50 Summit ASI 100, Micro-Tray (192)				X			X		X	x			
XeneX	Pos) Surmit ASI 100, Analytical-Tray (117			X					_					
Nonex	Pos.)							x		X		X		
Xonex	Summit ASI 100, Semprep - Tray (63 Pos.)			-										
Xionex	Famos (LC Packings/Dionar)							X		X	X	X		
Dionex	UltiMate Analytical, cylindrical, WP- 3000 SL, 120 Pos. Rack (2ml)							x		x	X	x		
Nonex	UltiMate Micro, conical, WPS-3000 SL, 120 (3x40) Pos. Rack (250ul)				x									
Venex	UltiMate Semipreparative, WPS-300(SL, 66 (3x22) Pos Rack (4ml)													
Vonex	UltiMate Nano/ Cap/Micro, WPS- 3000 St., 216 (3x72) Pos. Rack (1,2ml)			x										
Nonex Nonex	ASE 200 AS 40													
honex	HS-HV							х						
Xmatec Xmatec	Dimatec 200 Dimatec 300													
Dimatec D-Star	Dimated 400 DAS 10							x				x		
ynatech	42 vial tray							X	Х	x		x		х
Dynatech Dynatech	60 vial tray EG2000		Х	X	X			X		х	4	х	-	
Dynatech	GC111		X	-				х				x		
Dynatech	GC311 Cobra I/S GC Autosampler, 120 vial		Х					X				X		
EST Analytical	tray. Cobra L/S GC Autosampler, 60 vial.							х		X	x	X		
ST Analytical	tray													
ST Analytical ST Analytical ST Analytical	Markelov HS9000 Archon P/T													
ST Analytical Innigan	Centurion 100 A200S	x				х		x		x		X		
isons	AS100	X			x	х		х	х	х		X		X
isons isons	AS200 A200LC	X				X X		X	v	X		X		X
isons isons	AS200S	X				X		X	X	X		X		X
isons	A\$300	x			X	х		х	X	х		X		X
isons isons	AS800, 42 vial tray AS800, 50 vial tray		Х	X	x			X		X		X		Х
isons	HS250													
isons isons	HS800													
isons	HS850													
BBC BE Instruments	Avanta Ultra Z Sievers 6 900									X		х		
ae instruments Geratel	MPS2	х			x	х						х		X
Bilson	201/202							х		X				
Silsón	221/222							x		X				

	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollrand ND11	Schnapping ND11	Gewinde ND 13	Headspace ND20 (ND18)	Headspece ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Gewinde ND24 (EPA)
CHR	OMA GLOBE	HR 11 0472	SR 11 0200 SR 11 0201 SR 11 0202	GW 13 0454 GW 13 0456 GW 13 0457 GW 13 0455 Kapital 7		HS 20 0302 HS 20 0350	HS 20 0239 HS 20 0352 HS 20 0207	HS 20 0235 HS 20 0236 Kapitel 11	HS 20 0237 HS 20 0353 HS 20 0351 HS 20 0732 HS 18 0238 HS 18 0348 HS 18 0234	HS 20 0354	HS 20 0885	GW 24 024 GW 24 034 GW 24 024 GW 24 034 GW 24 034 GW 24 034 GW 24 024 Kapitel 12
	Completed (00 Dow Town) CC DAI	Sello 19	Kapitel 6 Seite 24	Selle 26	Selle 31	Kapitel 11 Seltu 31	Kapitel 11 Sate 31	Solle 31	Kap. 10+11 Selle 301.	Kapitel 11 Suite 31	Solio S1	Sate 39
OTC (LEAP)	Combi PAL (98 Pos. Tray), GC PAL (98 Pos. Tray)											
CTO (LEAP)	Combi PAL SPME Mode (98 Pos. Tray)		1									
DIC (LEAP)	Combi PAL (32 Pos. Tray), GC PAL (32 Pos. Tray)		1 = 1			x			x			
OTC (LEAP)	Combi PAL SPME Mode (32 Pos Tray)								x			
OTC .	PAL HPLC Systems					х			x			
OTC	PAL Combi-xt Doid Mode Combi-xt Headspace Option					X			X			
OTC OTC	GC of Headspoe Option					X			X			
OTC CTC	PAL HTC-xt HTS-xt					X			x			
aTC .	HTX-xt					х			х			
TC	Combinat SPME Options					Х			x			
ero	A200S A200 LC		x			X						
STC	HS:500					×						
Dari	ALS 39 90		X									
Dari Dari	ALS 86 80 ALS 1000		X X							- 7		
) ari	HS39 50		^					X.				
Dari	HS86 50							X				
Dari	Master AS 2000		X			1		X				X
Dimatoe Dione x	Gna 50		x	X								
Dionex	AS 50		х									
Dionex	Summit ASI 100, Micro-Tray (192: Pos.)											
Ivenex	Summit ASI 100, Analytical-Tray (117)		x									
Dionex	Pos.) Surmit ASI 100, Semprep -Tray (89			x								
Dionex	Pos) Famos (LC Packings/Dionex)		x	^		x	-					
Dionex	UltiMate Analytical, cylindrical, WP- 3000 SL, 120 Pos Rack (2mt)		x			×						
Dionex	UlfMate Micro, corrical, WPS-3000 SL, 120 (3x40) Pos. Rack (250µl)					x						
Dionex	UltiMate Semipreparative, WPS-3000 SL, 66 (3x22) Pos. Rack (4ml)			×		x						
Dionex	UltiMate Nano/ Cap/Micro, WPS- 3000 St., 216 (3x72) Pos. Radk					×						
Dionex	(1,2ml) ASE 200	-					-			-		×
Dionex	AS 40 HS-HV			X								
Dionex Dimatec	Dimatec 200											x
Dimatec Dimatec	Dimatec 300 Dimatec 400			1			-			-		X
D-Star	DAS 10											
Dynatech	42 Vial tray	x				7						
Dynatech Dynatech	60 vial tray LC2000											
Dynatech	GC111											
Dynatech	GC311 Gobra IJS GC Autosampler, 120 vial							- 3				
EST Analytical	fray											
EST Analytical	Cobra L/S GC Autosampler, 60 vial tray					×						
EST Analytical	Markelov HS9000								х	- 3		
EST Analytical EST Analytical	Archon P/T Centurion 100											X
Finnigan	A200S											
Fisons Fisons	AS100 AS200		X									
Fisons	A200LC		X									
Fisons	AS200S		х									
Fisons Fisons	AS300 AS800, 42 vial tray	X	Х									
isons	AS800, Sovial tray											
Tisons Tisons	HS250 HS500					X						
risons risons	HS800					X			x			
Fisons	HS850					х			х			
3BC 3E Instruments	Avanta Ultra Z Sievers® 900		х									x
Gerstel	MPS2					x			x			*
	201/202			_			_		_			

	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollrand NDB	Rollrand ND9	Rollrand ND8	Rollrand ND8	Rollrand NDB	Rollrand ND8	Gewinde ND®	Gewinds ND8	Kurzgewinde ND9	Gewinde ND10	Holrand ND11	Rollrand ND 11	Politand NO11
CHRO	OMA GLOBE	RR 08 0326 RR 08 0327	RR 08 0328	RR 08 0329 RR 08 0330	FIR 08 0331 FIR 09 0332	RR 08 0317 RR 08 0333	RR 08 0334	GW 08 0193 GW 08 0793 GW 08 0194 GW 08 0185	GW 08 0356	KG 09 0196 KG 09 0197 KG 09 0189 KG 09 0363 KG 09 0365	GW 10 0451 GW 10 0452 GW 10 0453	RR 11 0478 RR 11 0176 RR 11 0198 RR 11 0198 RR 11 0822 RR 11 0294	RA 11 0366	RR 11 0367
		Kapitel I Solle A	Kapitel 1 Sale 8	Kaptel (Selly 8	Kapitel I Seile 8	Kapilel 1 Sells à	Kapilel 1 Salle 8	Kapitel 2 Selle 10	Kapitel 2 Selle 10	Kapitel 3 Sets 13	Kapitel 4 Selle 17	Kapitel 5 Solu 19	Kapitel 5 Salla (9	Kapitel 5 Seite 15
alson ailson	231/401 232/402							X		X				
Gilson	Aspec							x		x				
Silson	Aspec XII							x		X				
Silson Silson	Aspec XL4 221 XL/222XL	x			X (nur f.	x		*						
Gilson	223	х			221XL)	x								
Gilson	231 XL/232 XL/ 233 XL	x			X (nur f. 231XL)	х								
alson Bilson	Nano Injektor 235/235P/SP 235/SP 235P	x				x		X		X				
Synkatek	Gina 50			х						x		x		
Hach Lange	IL 550 TOC-TN								-					
HIA.	HT200H HT250D							Х.		x	×	x		
HTA	HT280T							X		X	х	х		
ATA TA	HT300A HT300L							X		X	x	X		
CII	LC1600	x				х		_ ^				^		
MT GribH	VSP4000													
MT GroH lasco	PTA3000 AS 2055/AS 2055 (i)				X			x		x	x	x		
lasco	AS 2057/ AS 2057 (i)				X			x		X	x	x		
Jasco Grauer	AS 2059 IC-3800 (Basic Marathon)				х			X	X	X	х	X		x
(nauer	Smartline K-3950							X	^	X		X		
Knauer Kenik - Tach	PLATINBlue AS-1 Robokrom Statio HS							X		X		X		
Konik - Tech Konik - Tech	Robokrem HRGC Robokrem HPLC	Х				x		x	Х	х	x	X		X
Kontron	MSI 660							X		^	*	^		_ ^
Contron	380, 480 718-80				X			х	Х	х		х		х
DC DC	Marathon		х		X			x	X	x		x		x
LDC	Promis							x	x	X		х		х
EAP Ol Analytical	siehe CTC 1020A													
Ol Analytical	1088													
31 Analytical	1096+													
Ol Analytical Ol Analytical	4551A 1552													
Perkin Elmer	Series 200, 25 vial tray													
Perkin Elmer Perkin Elmer	Series 200, 85 vial tray Series 200, 81/100 vial tray										X	X		
Perkin Elmer	Series 200, 205 vial tray				X						X	X		
Perkin Elmor Perkin Elmer	Series 200, 225 vial tray Al-1		х		X							х		
Perkin Elmor	AS-100 / AS-100B		X		Х							X		-
Perkin Elmer Perkin Elmer	AS2000/AS2000B AS-300		X		x		×				X	x		
Perkin Elmer	AS8800		х		x							х		
Perkin Elmer Perkin Elmer	Autosystem HS 6		Х		Х							Х		
Perkin Elmer	HS40 / HS100/101													
Perkin Elmer	Turbo,Matrix HS18 / HS40 / HS40XL/ HS40 Trap/ HS110/ HS110 Trap													
Perkin Elmer	Integral 4000										x	x		
Perkin Elmer	ISS-100, 85 vial tray		Х		X						X	X		
Perkin Elmer Perkin Elmer	ISS-100, 100 vial tray ISS-200, 85 vial tray										X	X		
Perkin Elmer Perkin Elmer	ISS-200, 100 vial tray ISS-200, 145 vial tray				Y						x	x		
Perkin Elmer	ISS-200, 145 vial tray ISS-225, 205 vial tray				X						х	x		
erkin Elmer	ISS-225, 100 vial tray + 80 vial tray										×	x		
Perkin Elmer Perkin Elmer	ISS-226, 85 vial tray ISS-226, 25 vial tray										Х	х		
arkin Elmer	LC 800, 42 vial fray		х											
Perkin Elmer Perkin Elmer	LC 600, 60 vial fray Clarus 400, 500, 800										Х	X		
Pharmacia	LKB 2157-010	v				x		X		X		X		
Pharmacia Polymer	LKB 2157-020 PL-AS RT	X						x		x	x	x		
Durna Elektronik	QHSS-40					1								

Ch	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollinging ND11	Schnappring ND11	Gewinde ND 13	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Gewinde ND24 (EPA)
CHR	OMA GLOBE	HR 11 0472	SR 11 0200 SR 11 0201 SR 11 0202	GW 13 0454 GW 13 0456 GW 13 0457 GW 13 0455	HS 20 0238	HS 20 0302 HS 20 0350	HS 20 0239 HS 20 0352 HS 20 0207	HS 20 0235 HS 20 0236	HS 20 0237 HS 20 0353 HS 20 0351 HS 20 0732 HS 18 0238 HS 18 0234 HS 18 0234	HS 20 0354	HS 20 0355	GW 24 024 GW 24 034 GW 24 024 GW 24 034 GW 24 034 GW 24 024 GW 24 024
		Kapitel 5 Sello 19	Kapitel 6 Seite 24	Kapitel 7 Sollo 26	Kapitel 11 Selle 31	Kapitel 11 Seite/31	Kapitel 11 Suite 31	Kapitel 11 Selle 31	Kap. 10+11 Selle 301.	Kapitel 11 Seite 31	Kapital 11 Salia 31	Kapitel 12 Sate 39
Bilson	231/401											
Gilson Gilson	232M02 Aspec						-		-		-	
Gilson	Aspec XII											
Gilson	Aspec XL4											
Gilson	221XL/222XL											
Gilson	223											
Bilson	931 XL/282XL/ 233XL											
Bilson	Nano Injektor											
Bilson	235/235P/SP 235/SP 235P			_		-						
Synkotek Hach Lange	Gina 50 IL 550 TOC-TN		x	Х								×
HTA.	HT200H							x				,
HTA.	HT250D	X	X					x				
HTA	HT280T	X	X					X				
-TA	НТ300Д	X	X									
CI CI	HT300L LC1600	X	X			-	-	X			-	
MT GribH	VSP4000	×										х
MT GribH	PTA3000											А
lasco	AS 2055/ AS 2055 (i)		x									
lasco	AS 2057/ AS 2057 (i)		X									
lasco	AS 2059		X									
Grauer Grauer	K-3800 (Basic Marathon) Smartline K-3950		X		X		-				-	
Knauer	PLATINDUe AS-1		X									
Konik-Tech	Robokrom Static HS					Х			X			
Konik-Tech Konik-Tech	Robokrom HRGC Robokrom HPLC		X			-						
Control	MSI 660			×								
Contron	380,480		х									
DC	718-80								1			
DC DC	Marathon		X									
.DC .EAP	Proms siehe CTC		x									
Ol Analytical	1020A											x
Ol Analytical	1088											X
Ol Analytical	1096+											х
Ol Analytical	4551A											X
Ol Analytical	1552											X
Perkin Elmer	Series 200, 25 vial tray				X						-	
Perkin Elmer Perkin Elmer	Series 200, 85 vial tray Series 200, 81/100 vial tray				^			-				
Perkin Elmer	Series 200, 205 vial tray			4 3		7		- 4				
Parkin Elmor Parkin Elmer	Series 200, 225 vial may Al-1											
Porkin Elmor	AS-100 / AS-100B											
erkin Elmer	AS2000/AS2000B											
Perkin Elmer	A\$-300											
Perkin Elmer	AS8800											
Perkin Elmer	Autosystem				-	- 1	-					
Perkin Elmer Perkin Elmer	HS 6 HS40 / HS100/101				X		X					
Control for 10%							-					
Perkin Elmer	TurboMatrix HS18 / HS40 / HS40XL/ HS40 T(ap/ HS110/ HS110 Trap				X* nicht geeignet für Turbomatrix TM 110		x		X° für Turbomatrix ¹⁶ 16, 110 produziert nach dem 1.9.06			
Perkin Elmer	Integral 4000				-							
Perkin Elmer	ISS-100, 85 vial tray				X							
erkin Elmer	ISS-100, 100 vial tray				74							
Perkin Elmer Perkin Elmer	ISS-200, 85 vial tray ISS-200, 100 vial tray				Х							
erkin Elmer	ISS-200, 145 vial tray							-				
Perkin Elmer	ISS 225, 205 vial tray											
erkin Elmer	ISS-225, 100 vial tray + 80 vial tray											
Parkin Elmer	ISS-226, 85 vial tray				X							
Perkin Elmer Perkin Elmer	ISS 225, 25 vial tray LC 800, 42 vial tray											
Perkin Elmer	LC 600, 60 vial tray											
Perkin Elmer Pharmacia	Clarus 400, 500, 800 LKB 2157-010		x									
Pharmacia	LKB 2157-020	x										
Polymer	PL AS RT		x	x								
CHYLTREE												

	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollrand ND8	Rollrand ND9	Rollrand ND8	Ratirand NDB	Rairend NDB	Rollrand NDB	Gewinds ND8	Gewinde ND8	Kurzgewinde	Gewinde ND10	Rolrand ND1	Rolland ND 11	Rollrand NO 14
CHRO	OMA GLOBE	RR 08 0326 RR 08 0327	RR 08 0328	RR 08 0329 RR 08 0330	RFI 00 0332	RR 08 0333	RH 08 0334	GW 08 0793 GW 08 0194 GW 08 0195		KG 09 0363 KG 09 0365	GW 10 0453	RR 11 0176 RR 11 0198 RR 11 0198 RR 11 0822 RR 11 0294		RR 11.0
edere		Kapitel 1 Solle 8	Kapitel 1 Sale 8	Kaptel (Soilu 8	Kapitel I Selle 8	Kapilel 1 Sells à	Kapitel 1 Selte 8	Kapitel 2 Selle 10	Kapitel 2 Sejia 10	Kapitel 3 Set 4 13	Kapitel 4 Selle 17	Kapitel 5 Solu 19 X	Kapitel 5 Salla 19	Kapita Saita
GE limadzū	LS-3200 AOC-5000	X			x	X				x		x		х
imadzu imadzu	AOC-14/1408 AOC-17							X X	x	X	X X	X		X
vimadzu	AOC-20/20/20s 150 Pos Tray							X	X	X	х	х		Х
imadzu imadzu	LC-20A SIL-2AS				x			x	x	X	x	X		X
imadzu	SIL-6A				X			X	X	X	X	x		Х
imadzu imadzu	SIL-68/SIL-7A/SIL-8A/SIL-9A SIL-10A/SIL-10AF/SIL-10AF/SIL-				x			x	x	x	x	x))
	10Ai / SIL-10AxL/ Rack S 100 Pos SIL-10A / SIL-10AF / SIL-10AP / SIL-				- 1							1 30		
unadzu	10AL/SIL-10AxL/Rack L 80 Pos SIL 10A / SIL-10AF / SIL-10AP / SIL-													
timadzu	10AL/SIL-10AXL/ Rack MTP2 192 Pos													
rimadzu	SIL-10HTA/SIL-10HTC 350 Pos Tray							- 11						
himadzu	SIL-19HTA/SIL-10HTC 140 Pos. Tray							x.		×	x	x		
himadzu	SIL-10HTA/SIL-10HTC 100 Pos. Tray											1 - 2		1
himadzu	SIL-10ADVp HTA 200H							х	X	x	х	x		X
hmadzu	S1L-200H S1L-200A (Prominence) 105 yiel tray/							-						
timadzu	SIL-20AG (Promiseros) 70 viai tray				x			X	X	Х	x	x)
himadzu	SIL 20A/ SIL 20AC (Prominence) 175 vial tray													
himadzu	SIL 20A/SIL 20AG (Prominence) 50 vial kay													
himadzu	LC2010C+LC2010A 350 Pos Tray													
himadzu	LG2010C + LG2010A 140 Pos Tray							x		x	x	х		X
himadzu	LC2010C + LC2010A 100 Pos Tray							-						
himadzu himadzu	ASI-V HSS-2B			-										
himadzu	SIL 30-ACMP							x		x		х		
Sigvers (GE nstruments)	Sievers@900													
park	Marathon Basio, Standard 96 Pos Tray							x	X	×		x		х
párk	Marathon Basin Prap King Size 48 Pos. Tray													
párk.	Midas, Standard 84 Pos Tray	-						х	Х	X		Х		Х
park	Midas, Large Capacity 96 Pos. Tray							X	X	X		Х		Х
park	Midas, Large Volume 24 Pos Tray													
park park	Alias Promis							x	X	X		X))
park park	SPH 125 Triathlon, Standard 96 Pos. Tray							x	X	X		X)
park park	Triathlon, LSV 72 Pos. Tray Triathlon, Super-LSV 32 Pos. Tray							^	-	^				
park	Triathlon, Micro 160 Pos. Tray	х				х		x	х	x		x		,
park park	Endurance 48 Pos Tray Reliance 48 Pos Tray							x	X	X		X		ý
park park	Interity Prospekt 2									Х		X		
park park	Reliance/ Symbiosis Pharma Dried Blood Spot (DBS)							x		x		X		7
perk perk	Interity Optimas							X		X		X		
pectra-Physics pectra-Physics	8875 8880							X X		X		X		
pectra-Physics pectra-Physics	Spectra SYSTEM AS1000 Spectra SYSTEM AS3000	X X		x	X	X		X		X		X		X
peotra-Physics	Spectra SYSTEM AS3500 S 5200	X			X	x		X		X		x)
ykarn albot	3.7500									X		x		
eledyne Tekmar	7000 / 7000 HT / 7050													
eledyne Tekmar	AQUATek 70 / SOLATek 72TM													
elerlyne Tekmer elerlyne Tekmer	STS 8000 TOC HT8													
hermo Scientific hermo Scientific	AS1000 (Trace GC) AS200	X			Х	X X		X X	х	X		X X		X
hermo Scientific	A\$300	X			X	X		X	X	X		X		X
hermo Scientific hermo Scientific	AS2000 30 vial Tray AS2000 90 vial Tray (Trace GC)			x				x	X	x	-	x		3

	OMA GLOBE GbR Autosampler- compatibilitäts- übersicht	Rollvand ND11	Schnappring ND++	Gewinde ND13	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Gewinde ND24 (EPA)
CHRC	OMA GLOBE	Kapitel 5	SR 11 0201 SR 11 0202	GW 13 0454 GW 13 0456 GW 13 0457 GW 12 0455	HS 20 0238	HS 20 0302 HS 20 0350 Kapitel 11	HS 20 0239 HS 20 0352 HS 20 0207	HS 20 0235 HS 20 0236 Keptel 11	HS 20 0353 HS 20 0351 HS 20 0732 HS 18 0238 HS 18 0348 HS 18 0234	HS 20 0354	HS 20 0355	GW 24 0240 GW 24 0344 GW 24 0241 GW 24 0345 GW 24 0242 GW 24 0243 GW 24 0243
edere		Kapitel 5 Sella 19	Kapitel 6 Selte 24	Kaptel 7 Sella 26	Salla 31	Soite 31	Kapliel 11 Saire 31	Selly 31	Kap. 10+11 Selle 301	Suite 31	Kapital 11 Solia 31	Kapitel 12 Saite 39
GE himadzū	LS-3200 AOC-5000					х			x			
rimadzu	AOC 14/1400		X	x		х						
imadzu imadzu	AOC-17 AOC-20 / 20/ / 20s 150 Pos Tray		X	X								
himadzu	LC-20A		X	X								
himadzu himadzu	SIL-2AS SIL-6A	_	X	×								
imadzu	SIL-6B/SIL-7A/SIL-6A/SIL-9A		X	X								
rimadzu	SIL-10A / SIL-10AF / SIL-10AP / SIL- 10Ai / SIL-10AxL / Rack S 100 Pos		х									
hmadzu	SIL-10A/SIL-10AF/SIL-10AP/SIL- 10AI/SIL-10AxL/Rack L 80 Pos			x								
hmadzu	SIL 10A / SIL 10AF / SIL 10AP / SIL 10AJ / SIL-10AxL/ Rack MTP2 192 Pos											
himadzu	SIL-10HTA/SIL-10HTC 850 Pos Tray											
himadzu	SIL-19HTA/SIL-10HTC 149 Pos.		x									
hmedzu	SIL-10HTA/SIL-10HTC 100 Pos.			x								
hmadzu hmadzu	Tray SIL-10ADvp		x	X								
himadzu	HTA 200H			7				x	x			
himadzu	SIL-20A (Prominence) 105 vial tray/ SIL-20AG (Prominence) 70 vial tray/		x									
himadzu	SIL 20A/ SIL 20AC (Prominence) 175 vial tray											
bimartzu	SIL 20A/SIL 20AG (Prominence) 50 vial Vay			×								
himadzu	LC2010C + LC2010A 350 Pos Tray											
himadzu	LC2010C + LC2010A 140 Pos Tray		х									
himadzu	LO2010C + LO2010A 100 Pos Tray			х								
himadzu	ASI-V											X
himadzu himadzu	HSS-2B SIL 30-ACMP		-					X	X	_		
iovers (GE	Sievers® 900								1			x
park	Marathon Basio, Standard 96 Pos		x			-						
	Tray Marathon Basio Prap King Size 48	_	- "							_		
park park	Pos Tray Midas, Standard 84 Pos Tray	х	X		х	Х						
park	Midas, Large Capacity 96 Pos. Tray	X	X							- 3		
park	Midas, Large Volume 24 Pos Tray					х						
park	Alias		x				x					
park	Promis-		X									
park park	SPH 125 Triathlon, Standard 96 Pos. Tray	X	X									
park park	Triathlon, LSV 72 Pos. Tray Triathlon, Super-LSV 32 Pos. Tray			Х		x						
park	Triathlon, Micro 160 Pos. Tray		x									
park park	Endurance 48 Pos Tray Reliance 48 Pos Tray		X									
park park	Interity Prospekt 2		X									
park park	Reliance/Symbiosis Pharma Dried Blood Spot (DBS)		X									
park park	Interity Optimas			1								
peotra Physics	8875		x									
pectra-Physics pectra-Physics	Spectra SYSTEM AS1000		X									
pectra-Physics pectra-Physics	Spectra SYSTEM AS3000 Spectra SYSTEM AS3500	X	X									
ykam	S 5200		х									
albot Talassia	SOUND AND STATE OF THE STATE OF		X				- 2					
eledyne Tekmar	7000 / 7000HT / 7050						х					x
eledyne Tekmar	AQUATek 70 / SOLATek 72TM STS 8000 TOG											X
eledyne Tekmer eledyne Tekmer	HT3						x		x			A
hermo Scientific hermo Scientific	AS1000 (Trace GC) AS200											
hermo Scientific	ASS00 ASS000 S0 vial Tray		X			Х				3		
hermo Scientific hermo Scientific	AS2000 90 vial Tray (Trace GC)	×				^						

	OMA GLOBE GbR Autosampler- Compatibilitäts- übersicht	Rollrand ND8	Rollrand ND9	Rollrand NDB	Rollrand ND8	Ratiend NDB	Rolrand NDB	Gewinde NDS	Gewinde ND8	Kurzgewinde ND9	Gewinde ND10	Holrand ND11	Rollrand ND 11	Rollrand NO11
CHRC	OMA GLOBE	RR 08 0326 RR 08 0327	RH 08 0328	RR 08 0329 RR 08 0330	RR 08 0331 RR 09 0332	RR 08 0317 RR 08 0333	RH 08 0334	GW 08 0193 GW 08 0793 GW 08 0194 GW 08 0195	GW 08 0356	KG 09 0197	GW 10 0451 GW 10 0452 GW 10 0453	RR 11 0478 RR 11 0176 RR 11 0198 RR 11 0198 RR 11 0322 RR 11 0294	RA 11 0366	RR 11 0967
		Kapitel 1 Solle 2	Kapitel 1 Sale 8	Kaptel (Sellu 8	Kapitel I Seite 8	Kapilel 1 Sells à	Kapilal 1 Salla 8	Kapitel 2 Selle 10	Kapitel 2 Seile 10	Kapitel 3 Set 4 13	Kapitel 4 Seite 17	Kapitel 5 Solu 19	Kapitel 5 Salle (9	Kapitel 5 Sette 19
Thermo Scientific	Al3000 (II)/ AS3000(II). AS3500 (Trace GC + Fokus GQ) A2001.C	x			x	x		x	X	x		x		x
Thermo Scientific Thermo Scientific	Spectra SYSTEM AS 1000 Spectra SYSTEM AS 3000	X		x	X	X X		X		X		x x		X
Therma Scientific	Spectra SYSTEM AS 3500	Х		^	x	X		X	-	X		X		X
Thermo Scientific Thermo Scientific Thermo Scientific	AS200S AS100	X			x	X		X	X	X		X		X
Thermo Scientific	AS800, 42 vial tray AS800, 60 vial tray		Х	x	х			X		X		X		X
Thermo Scientific Thermo Scientific	HS250 HS500													
Thermo Scientific Thermo Scientific	HS800 HS850													
Thermo Scientific	HS2000	Test		-40								5		
Thermo Solentifia	TriPlus (=GC PAL) (A3/HS/Duo)	X	1	X	X	х		×		X		X		X
Thermo Solentific	TriPlus HS													
hermo Scientific	TriPlus SPME			-								-		
Thermo Scientifia	HIPerTOC:													
		7			/9.7			-		- air				
Trarm Scientific	Surveyor (Surveyor Plus)	X			X	х		x		Х		X		X
Thermy Scientific	Accela High Speed LC Autosampler (200 Pos.)	х			x	х		x		х		x		
Therma Scientific	Accela Open Autosampler	x		-		x	×		x	x		x		
hermo Scientific	Trace 1300 Series							x		x	x	x		
oson	AS-8010							2		x		x		
osófi	TSK-6080									X		X		
racor TSP	770 / 771 / 772 8875							x		X		X		
ISP.	9980							X		X		X		
Jricam	4247 4710							X		X		X		
Unicarn Unicarn	4700 (GC)	х				х		x		X		X		
Jnicam	4700 (LC)	Х				Х		X	Х	X				
Inicam Inicam	LC-XP S4/S8	х				x		X	X	X		х		Х
/arian	Prostar 400, Standard 96 Pos. Tray							x	x	x	×	x		х
/arian	Prostar 400, King Size 48 Pos Tray													
/ariari	Prostar 410, Standard 84 Pos Tray							x	x	x	х	x		х
/arian	ProStar 410, Large Capacity 98 Pos.							x	x	x	x	x		х
6.150	ProSiar 410, Large Volume 24 Pos							_ ^	^	•	•	-		^
Varian	iray								43		- 11			- 44
/arian /arian	ProStar 420, Standard 96 Pos. Tray ProStar 420, LSV 72 Pos. Tray				х			x	x	X	x	x		х
/arian	ProStar 420, Super LSV 32 Pos				^									
/arian	ProStar 420, Micro 160 Pos. Tray	х				х								-
/arian /arian	Proster 430, 48 Pos. Tray 8085							X	x	X		X		Х
/arian	8000							X		X		x		
farian (mine	8400 (100 Pos.) 8410 Autoinjector (10 x 2ml, 6 x 5ml,							X		X		X		
/arian farian	5 x 10ml) 8100							X		X		x		
/arian	8200							X		Х	х	х		
/arian /arian	CP-910, 911, 912 CP-940, 941							X		X		X		
/arian /arian	LC 9100/LC9095/LC9090									x		X		
/arian	Archon Combi PAL (200 Pos. Tray), GC PAL													
/arian	(200 Pos. Tray)	х				х								
/arian	Comb PAL (98 Pos. Tray), GC PAL (98 Pos. Tray)				X					x		х		
/arian	Gombi PAL SPME Mode (98 Pos. Tray)									x		х		
/arian	Combi PAL (32 Pos. Tray), GC PAL (32 Pos. Tray)													
/arian	Combi PAI. SPME Mode (32 Pos Tray)													
Varian	Genesis													
/ariari	Marathon Basic, Standard 96 Pos. Tray							x	x	x		x		x
/arian	Marathon Basin, Frap, King Size 48													

	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollvand ND11	Schnappring ND11	Gewinde ND13	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Gewinde ND24 (EPA)
CHRO	OMA GLOBE	HR 11 0472	SR 11 0200 SR 11 0201 SR 11 0202	GW 13 0454 GW 13 0456 GW 13 0457 GW 13 0466	HS 20 0238	HS 20 0302 HS 20 0350	HS 20 0239 HS 20 0352 HS 20 0207	HS 20 0235 HS 20 0236	HS 20 0237 HS 20 0353 HS 20 0351 HS 20 0752 HS 18 0239 HS 18 0234 HS 18 0234	HS 20 0354	HS 20 0355	GW 24 0240 GW 24 0344 GW 24 0241 GW 24 0348 GW 24 0348 GW 24 0348 GW 24 0242
	[Al3000 (II)/ AS3000(II) AS3500	Kapitel 5 Sello 15	Kapitel & Seite 24	Kapitel 7 Selle 26	Kapitel 11 Selle 31	Kapitel 11 Seita 31	Kapitel 11 Sate 31	Kapitel 11 Solle 31	Kap. 10+11 Selle 301.	Kapitel 11 Seite 31	Kapitel 11 Solle 31	Kapitel 12 Saite 39
Thermo Scientific Thermo Scientific	(Trace GC + Fokus GC) A200LC		X			X						
Thermo Scientific Thermo Scientific	Spectra SYSTEM AS 1000 Spectra SYSTEM AS 3000	X	X									
Therma Scientific	Spectra SYSTEM AS 3500 AS200S	100	X									
Thermo Scientific Thermo Scientific Thermo Scientific	AS100		X									
Thermo Scientific Thermo Scientific Thermo Scientific	AS800, 42 vial tray AS800, 60 vial tray	X										
Thermo Scientific Thermo Scientific	HS250 HS500				_	X						
Thermo Scientific Thermo Scientific	HS800					Х			x			
Thermo Scientific Thermo Scientific	HS850 HS2000					X			X			
Thérmo Scientific	TriPlus (=GC PAL) (AS/HS/Duo)	×	1-11			x			x			
Thermo Scientifio	TriPlus HS		-			×			x			
Thermo Scientific	TriPlus SPME					x			x			
Thermo Scientific	HiPerTOC:											×
						0						^
Therm: Scientific	Surveyor (Surveyor Plus) Accela High Speed LC Autosampler		x			x		-	-			
Thermy Scientific	(200 Pos.)		X									
Therm: Scientific	Accelà Open Autosamplei		X									
Thermo Scientific	Trace 1300 Series		x		x		х	x				
Tosoh	AS-8010		X									
Toson	TSK-6080		х	X							_	
TSP	770 / 771 / 772 8875		x				_					
TSP-	8880		х									
Unicam	4247											
Unicam Unicam	4710 4700 (GC)		-		_		-		-			
Unicarn	4700 (LC)											
Unicam	LC-XP			х						1		
Unicam	S4/S8											
Varian	Prostar 400, Standard 96 Pos. Tray		x									
Varian	Prostar 400, King Size 48 Pos Tray				X							
Varian	Prostar 410, Standard 84 Pos. Tray	X	х			х						
Varian	ProStar 410, Large Capacity 98 Pos. Tray	×	х									
Varian	ProStar 410, Large Volume 24 Pos. Tray					x						
Varian	ProStar 420, Standard 96 Pos. Tray	x	х									
Varian Varian	ProStar 420, LSV 72 Pos. Tray ProStar 420, Super-LSV 32 Pos			X	x	x						
Varian	Tray ProStar 420, Micro 160 Pos. Tray		_		Α.		_					
Varian	Proster 430, 48 Pos. Tray		X									
Varian	8035											
Varian Varian	8000 8400 (100 Pos.)									х		
Varian	8410 Autoinjector (10 x 2mt, 6 x 5mt,									x	x	
Varian	5 x 10ml) 8100									35	110	
Varian	8200											
Varian	CP-910, 911, 912											
Varian Varian	CP-940, 941 LC 9100/LC9095/LC9090		x									
Varian Varian	Archon			H								x
Varian	Combi PAL (200 Pos. Tray), GC PAL (200 Pos. Tray)					х						
Varian	Combi PAL (98 Pos. Tray), GC PAL (98 Pos. Tray)					x			1			
Varian	Combi PAL SPME Mode (98 Pos. Tray)					х						
Varian	Gombi PAL (32 Pos. Tray), GC PAL (32 Pos. Tray)					x			x			
Varian	Combi PAL SPME Mode (32 Pos. Tray)					X.			x			
Varian	Genesis							x				
Varian	Marathon Basic, Standard 96 Pos. Tray		x									
Varian	Marathon Basic, Prap, King Size 48				x							

	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rollrand ND8	Rollrand ND9	Rollrand NDB	Ratirand NDB	Rollrand NDB.	Rollrand NDB	Gewinda ND8	Gewinde ND8	Kurzgewinde ND9	Gewinde ND10	Holirand ND11	Rollrand ND 11	Politand ND11
CHR	OMA GLOBE	RR 08 0326 RR 08 0327	RR 08 0328	RR 08 0329 RR 08 0330	FIR 08 0331 FIR 09 0332	RR 08 0317 RR 08 0333	RH 08 0334	GW 08 0193 GW 08 0798 GW 08 0194 GW 08 0185	GW 08 0356	KG 09 0196 KG 09 0197 KG 09 0188 KG 09 0262 KG 09 0265	GW 10 0451 GW 10 0452 GW 10 0453	RR 11 0478 RR 11 0176 RR 11 0198 RR 11 0198 RR 11 0822 RR 11 0294	RA 11 0366	RE 11 0967
		Kapitel 1 Solle 8	Kapitel 1 Selfe 8	Kaptel 1 Seite 8	Kapitel I Selle 8	Kapitel 1 Sells 8	Kapital 1 Salta 8	Kapitel 2 Selle 10	Kapitel 2 Selle 10	Kapitel 3 Sets 13	Kapitel 4 Seile 17	Kapitel 5 Sees 19	Kapitel 5 Solle (9	Kapitel 5 Sette 15
arian	Vista							X		X				
arian	CP-9020 / CP-9025							-						
arian arian	GP-9080 GP-9010	1						x		x		X		
arian	920-LC/940-LC		-					x		-		^		
Escotek	VortexTM						7							
Isuotek	GPC Autosampler							X		X	X			
WR	Hitanhi Chromaster							X		X		Х		
WR (Merck®)/ Itachi	L2200 (LaChrom Elite)/ L2200-U (LaChrom Liltra) (200 Pos. Tray)							х		х				
WR (Merck®)/ litachi	L2200 (LaChrom Elite)/ (128 Pos. Tray)													
WR (Merck®)/	L7200 (LaChrom), (80 Pos. Tray)/ L7260 (LaChrom) (120 Pos. Tray)							X		х				
WR (Merck®)/ lilachi	L7250 (LaChrom) (Rack Holder for combination Racks)				х			x		x				
WR (Morck®)/ Itachi	655-A40 (108 Pos. Tray)			1				x		х				
WR (Merck®)/ Itachi	L-9100							x		x				
WR (Merck®)/ itachi	AS 2000 (50 Pos Tray)							X		X		x		
WR (Merck®)/ litachi	AS 4000 (150 Pos. Tray)							x		X		х		
WR (Merok®)/ Itachi WR (Merok®)/	AS 4000 (198 Pos Tray)				X									
Itachi	AS 6000				X			X		Х				11
Valers/B)	AGQUITY™ UPLC Systems									x				
/atersiti	Wisp 48 position													
/aters®	Wisp 90 position													
alers®	717, 96 Position Carousei											-		
/alers®/ /aters®/	717, 48 Position Carousel Allance®									x	x	x		
(8)019(8)	Aliance® GPC 2000									^	- ^	^		
/aters/8/	Aliance HT Syst.									x	x	x		
/alers®	Aliance/9/2790/2795									X	X	X		
/aters®	Acquity Sample Organizer									X				
/alers®	Acquity/ CapLC/ Waters/ Nano Acquity									x				
Valors®	Aliance 2690/2695							- 1		X (nicht für KG 09 0365)	×	x		

	ROMA GLOBE GbR Autosampler- Kompatibilitäts- übersicht	Rolling ND11	Schnappring ND:11	Gewinde ND 13	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Headspace ND20 (ND18)	Gewinde ND24 (EPA)
CHR	OMA GLOBE	RR 11 0472	SR 11 0200 SR 11 0201 SR 11 0202	GW 13 0454 GW 13 0456 GW 13 0457 GW 13 0465		HS 20 0302 HS 20 0350	HS 20 0239 HS 20 0352 HS 20 0207	HS 20 0235 HS 20 0236	HS 20 0353 HS 20 0351 HS 20 0752 HS 18 0239 HS 18 0348 HS 18 0234	HS20 0354	HS 20 0355	GW 24 0240 GW 24 0344 GW 24 0241 GW 24 0345 GW 24 0345 GW 24 0346 GW 24 0346
		Kapitel 5 Sella 19	Kapitel 6 Seite 24	Kapitel 7 Salla 26	Kapitel 11 Selle 31	Kapitel 11 Sella 31	Kapitel 11 Sute 31	Kapitel 11 Solle 31	Kap. 10+11 Selle 301.	Kapitel 11 Suite 21	Kapitel 11 Solia 31	Kapitel 12 Sate 39
arian	Vista											
arian erian	CP-9020 / CP-9025				_	X	-					
arian	CP-9010					^						
arian	920-LC/940-LC		Х									
Iscorek	VortexTM					1		-				X
scotek	GPC Autosampler											
WR	Hitanhi Chromaster			X								
WR (Merck®)/	L2200 (LaChrom Elite)/ L2200-U		x									
itachi	(LaChrom Ultra) (200 Pos. Tray)							-				
WR (Merck®)/ tachi	L2200 (LaChrom Elite)/ (128 Pos Tray)			X								
WR (Merck®)/	L7200 (LaChrom), (80 Pos. Tray)/ L7260 (LaChrom) (120 Pos. Tray)		х									
WFI (Merck®)/	L7250 (LaChrom) (Rack Holder for combination Racks)		x	×								×
WR (Morck®)/	855-A40 (108 Pos. Tray)		х									
WR (Merok®)/ llachi WR (Merok®)/	L-9100		X									
itachi WR (Marck®)/	AS 2000 (50 Pos Tray)		Х									
itachi WR (Merck®)/	AS 4000 (150 Pos. Tray)		X						1			
wk. (Merckel)/	AS 4000 (198 Pos Tray)											
ltach	AS 6000		X									
Valere/b)	AGQUITY™ UPLC Systeme			X (för 24 Pos. Plate)								
Vaters®)	Wisp 48 position			X								
alers®	Wisp 90 position											
ale(s0)	717, 96 Position Carousel											
/alers®	717, 48 Position Carousel		-	X								
/alere® /elete®	Aliance® GPC 2000		x	x		x	-					
/aters®	Aliance HT Syst.		x	Α		Α						
alers®	Aliance B 2790/2795		X									
aters®	Acquity Sample Organizer		X									
/aters8)	Acquity/ CapLC/ Waters/ Nano Acquity		х									
Vators®	Aliance 2690/2695		x									