

CATALOG

CONTENTS

Thecnical informations for vials
ND8 Screw Neck Vials & Caps & İnserts
ND9 Screw Neck Vials & Caps & İnserts.
ND10 Screw Neck Vials & Caps & İnserts
ND11 Crimp Ncel Vials & Caps & İnserts
ND11 Snap Rings Vials & Caps & İnserts
ND13 Screw Neck Vials & Caps
ND20 Crimp Neck Vials & Caps
ND18 Screw Neck Vials & Caps
ND24 Screw Neck Vials & Caps
Crimper & Decapper Tools

NOTES:





- · Vials and seals also available as 2in1 KIT. Contac to distrubitor
- · Small opening requires Micro-Inserts with a diameter of 5mm.
- · Micro-Insert with flat bottom also available.

The original, smaller opening vial with an 8-425 thread size screw cap. The dimensions of autosampler vials are vari- ous. They are designed to work in a variety of autosamp- lers requiring narrow neck vials.

Available with black caps, and a variety of septa to meet the needs of your application. optimal performance w/ Shi- madzu, Varian, Hitachi.

Available as closed top screw seals or with centre hole.

Caps are made of high quality polyproylene to exact manufacturing tolerances and lined in a controlled manufacturing environment.

Designed for multiple injections and/or longer sample cyc- les for both GC and LC applications.

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring.

Screw Neck ND8 Vials, Capps, Septas, İnserts

















Cat. No Volume **Dimension Glass Type** Labeling **Oppening** 10 08 9175 1.5ml 11.6x32mm Clear

Narrow

11.6x32mm Clear label & filling lines Narrow

10 08 9176

1.5ml

1.5ml 11.6x32mm Amber

Narrow

10 0 9177

1.5ml 11.6x32mm Amber label & filling lines Narrow

10 08 9178

Cat. No 10 08 9271 Volume 150 UL Dimension 31x5mm **Bottom** Connical

10 08 9272 200 UL 31x5mm Connical

10 08 9273 350 UL 31x5mm Flat

10 08 9274 200 UL 29x5mm Connical Plastic Spring



10 08 9010

White Silicon

Black

Red PTFE

Cat. No Color Septa

> Thick 1.3mm



10 08 9011 Black Red PTFE White Silicon

1.3mm

Black **Blue PTFE** White Silicon Slitted 1.3mm

10 08 9012



10 08 9013 Black Red PTFE White Silicon

1.0mm

Black

1.0mm

10 08 9014 Red PTFE White Silicon



10 08 9015 Black **Red PTFE** White Silicon Closed Top 1.3mm

The Universal Autosampler Vial VIALS



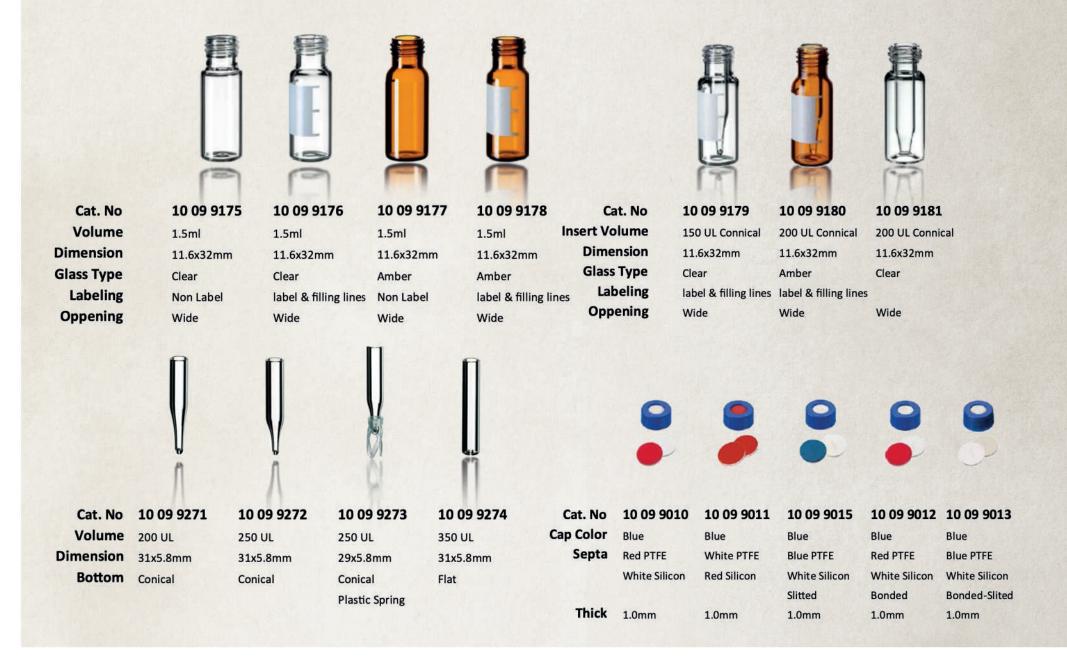
It is dimensionally equivalent to 11mm crimp top vials and 10- 425 screw vials. The 9mm screw vials can be used in any au- tosampler which used 11mm crimp top vials and 10-425 screw vials. Compared to 11mm crimp top type, the 9mm screw one can be much applied as hand removing convenient.

The vials can be used on all common autosamplers due to their technical geometry, preferentially they are found on Agilent, HTA, Shimadzu, Thermo, Varian, Waters, etc. 9mm screw thread caps, septa, and vials are designed especially for use with Agilent's and other rotating or robotic arm samplers.

9mm screw thread caps, septa, and vials are designed especially for use with Agilent's and other rotating or robotic arm samplers.

1.5ml, 11.6X32mm vials are manufactured of Clear, Type Borasilicat Class A or Amber, Class B borosilicate glass and include a write-on patch for sample identification Fit all 1.5ml, 11.6x32mm, screw-thread vial based autosamplers. Shorter screw cap allows the robotic autosampler to function properly.

Wider opening prevents syringe problems. Variety of colors and liner material. Unique thread design for consis- tently secure seal Precision-formed neck for optimal robotic arm handling 40% larger opening than standard narrow opening vials Provide graduated write-on marking area, measures 0.5, 1.0 and 1.5ml



NDTO SCREW NECK



Wide opening enables easy filling with viscous materials.

40% larger opening than other vials. step profile automatically centers glass flange limited volume inserts. Designed for Waters Alliance® autosamplers and incorporates finish that is uniquely designed to allow the insert to be precisely aligned in the center of vial. This precise alignment provides maximum sample withdrawal and eliminates any chance missed injections.

Screw Neck ND10 Vials, Capps, Septas



Cat. No Volume Dimension **Glass Type** Labeling **Oppening**



10 10 9175 1.5ml 11.6x32mm Clear Non Label Wide



10 10 9176 1.5ml 11.6x32mm Clear label & filling lines Non Label Wide



10 10 9177 1.5ml 11.6x32mm Amber Wide



1.5ml 11.6x32mm Amber label & filling lines Wide



Cat. No 10 09 9271 Volume 200 UL Dimension 31x5.8mm **Bottom** Conical



10 09 9272 250 UL 31x5.8mm Conical



10 09 9273 250 UL 29x5.8mm Conical

Plastic Spring

10 09 9274 350 UL 31x5.8mm Flat





10 10 9013

Cat. No Cap Color Septa

Thick

10 10 9010 Black & Blue

Red PTFE White Silicon

1.0mm

10 10 9011

Black & Blue White PTFE White Silicon

1.0mm

10 10 9012

Black & Blue WhitePTFE **Red Silicon**

1.0mm

Black & Blue Blue PTFE White Silicon **Bonded-Slited** 1.0mm

10 10 9014 Black & Blue

Red PTFE White Silicon Bonded 1.0mm

10 10 9015

Black & Blue Blue PTFE White Silicon **Bonded-Slited** 1.0mm

ND11 VIALS



Standard vials for GC and HPLC.

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. Crimps smoothly and easily no more sharp edges from an aluminum cap. Easily decaps using standard decapping tools.

Eliminates inconsistent sealing that results from improper crimping. Unique design holds the septum firmly in place.

Provides better seal than snap caps.

Meets CONEG standards.

The Crimp Seal is free of heavy metals easily disposed of or incinerated..

ND11 Crimp Neck



Cat. No Volume **Dimension Glass Type** Labeling **Oppening** 10 11 9175 1.5ml 11.6x32mm Clear Non Label

Wide

1.5ml 11.6x32mm Clear label & filling lines Non Label Wide

10 11 9176

10 11 9177 1.5ml 11.6x32mm Amber

Wide

10 11 9178 1.5ml 11.6x32mm Amber label & filling lines Wide

Insert Volume Dimension Glass Type Labeling

Cat. No **Oppening**



10 09 9179

150 UL Connical 11.6x32mm Clear

Wide



10 09 9180

200 UL Connical 11.6x32mm

Amber

label & filling lines label & filling lines

Wide Wide

Cat. No 10 09 9271 Volume 200 UL Dimension 31x5.8mm

10 09 9272 250 UL 31x5.8mm Conical

250 UL 29x5.8mm

Flat









10 09 9181

11.6x32mm

Clear

200 UL Connical



10 11 9105

Silver

Blue PTFE

Cat. No **Cap Color** Septa

Thick

10 11 9101 10 11 9102 Silver

TEF

1.0mm

Silver TEF

Natural Rubber Red Rubber

1.0mm

Silver Red PTFE

1.1mm

10 11 9103

White Silicon

Red PTFE White Silicon

10 11 9104

White Silicon

Slited

Silver

1.0mm 1.0mm

Bottom Conical



10 09 9273

Conical **Plastic Spring**

SNAP RING VIALS



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.
We recommend this vial-/closure system for HPLC applications only.

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 Wide opening enables easy filling with viscous materials.

5 SNAP RING ND11 Vials



ND13 SCREW NECK

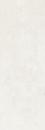


The vials are preferentially used on instruments of the following manufacturers:
Dionex, Shimadzu, Spark, Varian, VWR
(Merck®)/Hitachi, Waters® (Wisp 48 Position Carousel), etc.

Vials are packed in a cleanroom in reclosable, tamper-proof evident PP-Boxes.
For storage purposes also available with closed top screw seals.

ND13 SCREW NECK





4 ml

Clear

Wide

14.7x45mm

Non Label

Cat. No

Volume

Dimension

Glass Type

Labeling

Oppening



10 13 9175 4 ml 14.7x45mm Clear label & filling lines Wide



4 ml 14.7x45mm Amber Non Label Wide



4 ml 11.6x32mm Amber label & filling lines Wide

10 13 9175





10 13 9110









C	at. No
Сар	Colo
	Septa

Thick 1.0mm

10 13 9110 Black

FEP

Red PTFE Natural Rubber White Silicon

Black

1.0mm

10 13 9110 Black

1.1mm

Blue PTFE White Silicon 10 13 9110 Black White PTFE **Red Silicon** Slited 1.0mm

Black FEP

Natural Rubber Closed Top

10 13 9110

10 13 9110 Black Red PTFE White Silicon **Closed Top** 1.0mm

Head Space Vials, Capps, Septas



Vial Size: Headspace vials are available in 6, 10 and 20ml sizes. Use a vial large enough to ensure adequate headspace or phase ratio without excessive dilution of the components of inte- rest. Phase ratio is discussed later and should normally be at least 50% of the sample volume.

Simple Definition 'Headspace' is the gas space above the sample in a chromatography vial. Volatile sample components diffuse into the gas phase, forming the headspace gas. Headspace analysis is therefore the analysis of the components present in that gas. Suitability Headspace gas chromatography is most suited to the analysis of the very light volatiles in samples that can be efficiently partitioned into the headspace gas volume from the liquid or solid matrix sample. Higher boiling volatiles and semi-volatiles are not detectable with this technique due to their low partition in the gas headspace volume. Partitioning is covered in more details later in this article. Headspace gas analysis also lends itself to automation for quality control or sample scree- ning. This is made possible by modern instrumentation, through which highly reproducible samples can be prepared in an efficient and accurate manner. Complex sample matrices, which may be difficult to analyse directly or would otherwise require sample extraction or preparation, are ideal candidates for headspace since they can be placed directly in a vial with little or no prepa- ration. This saves both time and money. Applications Headspace GC is used for the analysis of volatile and semi -volatile organics in solid, liquid and gas samples. The popularity of this tech-nique has grown over recent years and has now gained worldwide acceptance for analyses of alcohols in blood and residual solvents in pharmaceutical products. Other common applications include industrial analyses of monomers in polymers and plastic, flavour compounds in beverages and food products, and fragrances in perfumes and cosmetics. DAC high quality headspace vials have a beveled neck for a secure seal, uniform glass thickness for even heat distribution and a stable, strong design for ease of use. They are available with rounded or flat bottom profiles for accurate instrument compatibility.

Use with 20mm headspace caps and septa and seal with 20mm crimping accessories.

Bottom Profile: Headspace vials may be round-bottomed or flat-bottomed. both of types are suitable but round-bottomed vials tend to be stronger and may work more reliably when the autosampler moves the vials into and out of the incubator. Round-bottomed vials also tend to withstand higher pressures and are more suitable for elevated temperatures and applications such as derivatization.

Septa Choice: Use septa suitable for the temperature of the system. Poor septa can result in bleed and so contaminate the headspace.

Correct Crimping: Headspace vials must be correctly crimped. Ensure the crimper is not worn and is adjusted correctly. The cap should not turn after application to the vial. Find out more about correct vial crimping.

Head Space Vials, Capps, Septas, (ND20)





Flat

Cat. No

Volume

Bottom

Dimension

Glass Type



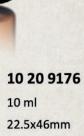
10 20 9172 10 ml 22.5x46mm Amber Flat



10 20 9173 10 20 9174 20 ml 20 ml 22.5x75mm 22.5x75mm Clear Amber Flat



10 20 9175 10 ml 22.5x46mm Clear Rounded



Amber Rounded



20 ml

Clear

Rounded

22.5x75mm

10 20 9178 20 ml 22.5x75mm Amber Rounded



Cat. No **Cap Color** Septa

Flat

Thick



10 20 9111 Silver Natural PTFE White Silicon 3.0mm



10 20 9112 10 20 9113 Silver Silver White PTFE Trans. PTFE White Silicon Trans. Silicon 3.0mm 3.0mm

ND18 Screw Neck Vials & Caps O8



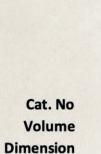
Note: Our ND18 Vials and Caps perfect fit to for CTC-Autosamplers Shimadzu, Agilent GC Headspaces Systems

ND24 Head Space Vials, Capps, Septas SCREW NECK



Broad range of EPA Vials in clear and amber glass.
PTFE faced 0.125" silicone septa.
Avaible for TOC Assemled VialCap+Septa Kit (Closed in Pack)
The vials are preferentially used on instruments of the following manufacturers:
Agilent, Dionex, Shimadzu, Tekmar, Thermo Scientific, Varian
Pre-sealed vials are available, especially needed for EPA-TOC analysis Available Pigment
Free septa for TOC and Cleaning validation analyses











10 24 9172

27.5x57mm

20 ml







10 24 9173

27.5x95mm

40 ml

Clear





10 24 9174

27.5x95mm

40 ml

Amber





60 ml 27.5x140mm Amber



Vial

Cap

Septa

Plastic Cover

Cat. No
Cap Color
Septa

Glass Type

Thick

10 24 9101

White Nat. PTFE White Silicon

3.0mm 1.5mm

10 24 9102

White Nat. PTFE White Silicon

10 24 9103

White Nat. PTFE White Silicon **Closed Top** 3.0mm

10 24 9104

White **Gray PTFE Natural Rubber** Closed Top 3.0mm

10 24 9104

White PE

10 24 9175

27.5x140mm

60 ml

Clear

Closed Top

1.0mm

Accessories

DAC Easy Grip Manual Crimper and Decapper



Our Easy Grip Manual Crimper and Decap-per for all 11, 13 and 20 mm crimp caps. The curved handle features comfortable use compared to metal grip designs. The bottom-pull handle allows for a steadier hold than top-push handles.



An easily-viewed adjustment knob is located at the head of the crimper and decapper. The clearly shown + and - sym- bols along with the directional arrows, simplify adjusting the intensity of the crimp or decap needed. The knob is also designed to indicate when the crimp setting has been reached, when it fully contacts the body of the crimper/ decapper.



All Easy Grip Manual Crimper and Decapper are equipped with an adjustment knob.

Cat. No	CRM.ND11C	DCP.ND11C	CRM.ND13C	DCP.ND13C	CRM.ND20C	DCP.ND20C
Size	11mm	11mm	13mm	13mm	20mm	20mm
Aplication	Crimper	Decapper	Crimper	Decapper	Crimper	Decapper
Style	Esay Grip	Esay Grip	Esay Grip	Esay Grip	Esay Grip	Esay Grip