# Millipore®

# **Contents**

Introduction	3
Holder and Rack Installation	4
Syringe Sampling Unit Set-up	10
Sampling	11
Storage	14
Sample Recovery	15

# NovaSeptum® and NovaSeptum® GO Sampling Units

# **User Guide**



### **Introduction**

This user guide provides installation and use instructions for:

- Single and multi-unit NovaSeptum<sup>®</sup> Sampling Units with Bottles
- Single and multi-unit NovaSeptum<sup>®</sup> Sampling Units with High Purity Bags
- Single unit NovaSeptum<sup>®</sup> Sampling Units with Autoclavable Bags
- Single and multi-unit NovaSeptum<sup>®</sup> Sampling Units with Accurate Volume Syringes
- NovaSeptum® GO preloaded Sampling Unit Holder
- NovaSeptum<sup>®</sup> Sampling Unit Holder
- NovaSeptum® GO Sampling Unit Holder
- Transfer Tubes

### **User Supplied Materials**

The following items are available from your local representative:

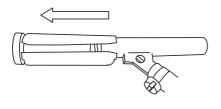
- A NovaSeal<sup>™</sup> Crimping Tool, needed to use the NovaSeptum<sup>®</sup> Sampling Unit.
- Crimp covers, which are placed over the crimped tubing ends
- First actuation locking ties for the NovaSeptum® GO Sampling Unit Holder.

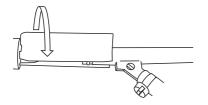
# **Holder and Rack Installation**

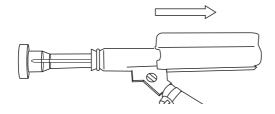
NovaSeptum® or NovaSeptum® GO Sampling Unit Holder Trigger Installation

NOTE NovaSeptum® GO preloaded Sampling Unit Holders do not require trigger installation.

1. Remove the trigger protector from the trigger on the NovaSeptum® or NovaSeptum® GO Sampling Units before inserting them into the holder. NovaSeptum® Sampling units are shown below.

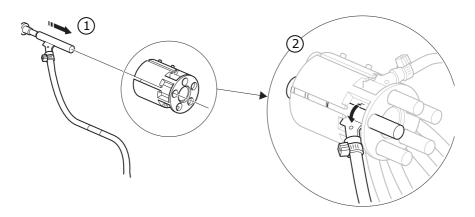






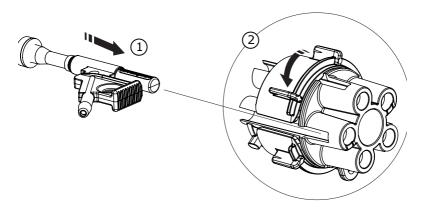
### 2. NovaSeptum® Sampling Unit Holder

Insert the trigger into the holder and turn the trigger so that the collar locks into place. Repeat for each trigger required for the installation.



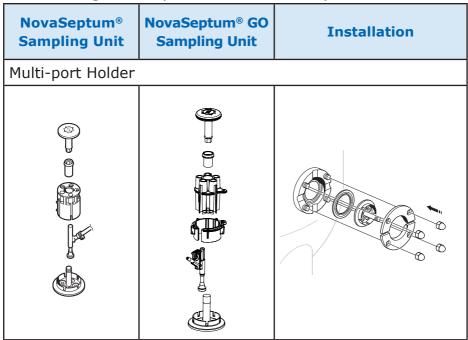
### **NovaSeptum® GO Sampling Unit Holder**

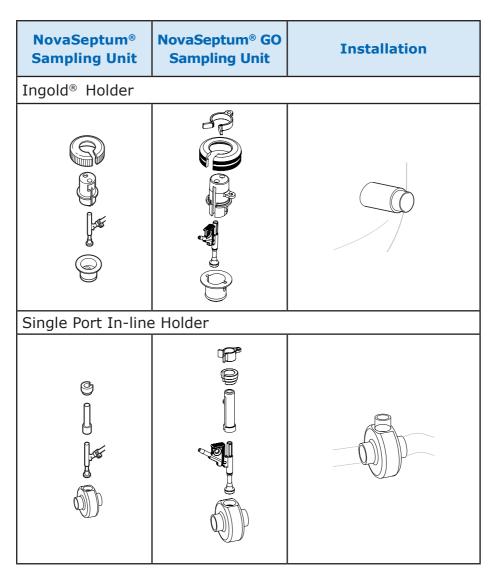
Insert the trigger into the holder and turn the holder collar so that the collar locks the trigger into place. Do not squeeze the tabs on the collar as that will prohibit turning the collar. Repeat for each trigger required for the installation.



# NovaSeptum® or NovaSeptum® GO Sampling Unit Holder Installation

1. Install the holder onto the sample source as described in the holder user guide. Any of these holders may be used:

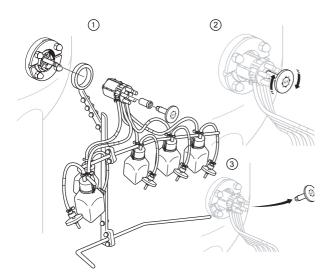




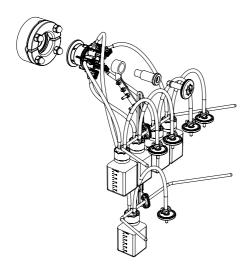
Contact Technical Service for NovaSeptum® or NovaSeptum® GO preloaded Single Use Holders installation.

2. When a rack is used, install the rack then hang the bottles or bags on the rack. Refer to the rack user guide for complete installation instructions.

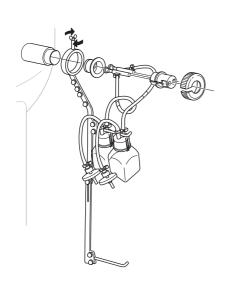
# NOTE Rack installation is the same for bags or bottle.

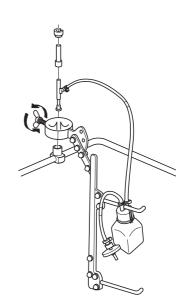


NovaSeptum® Holder



NovaSeptum® GO Holder





Ingold® Holder

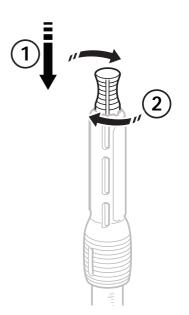
**Single Port In-line Holder** 

- 3. When the NovaSeptum® GO Holder is loaded, secure the holder using the first actuation locking tie.
- 4. After the loaded septum holder and rack have been installed, clean the vessel by Clean-in-Place (CIP) and/or Steam-in-Place (SIP), following the standard operating procedures (SOPs), if required. The sampling unit is now ready for use.

# **Syringe Sampling Unit Set-up**

The syringe sampling units may be autoclaved prior to use. Ensure that the syringe is locked in the closed position prior to autoclaving by following the instructions here:

- 1. Push top of syringe down.
- 2. Turn the top clockwise until it goes into the closed position and locks, ensuring the plunger cannot be moved.



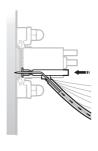
# **Sampling**

Volume and Pressure Specifications

NovaSeptum® Sterile Sampling Units	Sampling Unit Volume (mL)	Maximum Pressure Conditions (at 25 °C)
Bottle 60 t		0.50 bar (7.25 psi) (single unit)
	60 to 500	0.30 bar (4.35 psi) (multi-sampling)
High Purity Bag	50 to 1000	0.50 bar (7.25 psi) up to 250 mL
		0.30 bar (4.35 psi) for 1000 mL and multi-sampling
Autoclavable Bag	50 to 1000	0.30 bar (4.35 psi)
Syringe	5 and 20	0.50 bar (7.25 psi)

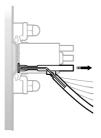
# Single Sampling Units

- NovaSeptum® GO Sampling Unit Holders have a first actuation locking tie that must be removed by either using the easy tear-off tab or by twisting the tie.
- 2. Depress the trigger on the NovaSeptum® Sampling Unit to insert the needle into the source being sampled.



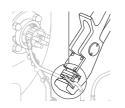
3. Fill the sampling unit with the required volume. Do not exceed the maximum volume of the unit.

Once the required sample volume is in the unit, retract the needle from the source.



4. Use the NovaSeal™ Crimping Tool to crimp the pinch pipe on the tubing and separate it from the source. If desired, remove the vent filter from the unit using the NovaSeal™ Crimping Tool to crimp the pinch pipe

on the tubing and separate it from the unit.

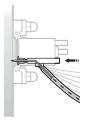




5. Once the tubing has been crimped, install the red crimp covers onto the crimped ends of the tubing if desired.

# Syringe Sampling Units

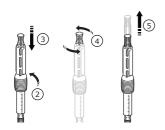
- NovaSeptum® GO Sampling Unit Holders have a first actuation locking tie that must be removed by either using the easy tear-off tab or by twisting the tie.
- 2. Depress the trigger on the NovaSeptum® Sampling Unit to insert the needle into the source being sampled.



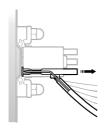
- 3. Invert the syringe.
- 4. Push top of syringe down.
- 5. Turn the top counter clockwise until it goes into

the open position.

6. Pull the plunger out.



- 7. Fill the sampling unit with the required volume. Do not exceed the maximum volume of the unit.
- 8. Once the required sample volume is in the unit, retract the needle from the source.



9. Use the
NovaSeal™
Crimping Tool
to crimp the
pinch pipe on
the tubing
and separate
it from the
source.





10. Once the tubing has been crimped, install the red crimp covers onto the crimped ends of the tubing if desired.

# Manifold Sampling Units

- 1. NovaSeptum® GO Sampling Unit Holders have a first actuation locking tie that must be removed by either using the easy tear-off tab or by twisting the tie.
- 2. Depress the trigger on the NovaSeptum® Sampling Unit to insert the needle into the source being sampled.

The needle must remain in the source for the entire sampling process. **DO NOT retract the needle between samples.** Use the valves on the manifold to start and stop the flow to each unit as outlined below.

# NOTE The valves are colored. Sampling should be done from the bottom to the top in this order: red, green, yellow, blue and white.

 Ensure the green, yellow, blue and white valves are closed. Open the red valve and fill the sample unit. Close the red valve.

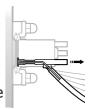
4. Use the NovaSeal™ Crimping
Tool to crimp the pinch pipe
on the tubing to seal the unit
and seperate
it from the
manifold.
Crimp the
vent on the
unit as well if
desired.

5. Repeat steps 2 through 4 as required, for each sampling unit installed on the manifold.

6. Once the tubing has been crimped, install the red crimp covers, if desired, onto the crimped ends of the tubing.

The sample is ready for storage.

7. When all the samples have been taken, pull the trigger to remove the needle from the sample source.



# **Storage**

Store bottles in the upright position.

High Purity Bags, up to 250 mL, may be stored flat in a NovaSeptum® Case.

NOTE Bottles, bags and syringes are fragile when frozen.

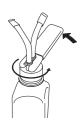
# Sample Recovery

### NovaSeptum® Bottles

1. Pull the tabs on the protective wrap covering the bottle cap.



2. Use a wrench provided with the bottle to remove the cap from the bottle.



# NovaSeptum® Accurate Volume Syringes

1. Twist the tamper-proof cover on the trigger until it separates from the syringe.



2. Pull the cover off of the syringe.



We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

For technical assistance please visit:

www.sigma-aldrich.com

For additional information and documentation please contact:

Merck KGaA, Darmstadt, Germany Corporation with General Partners Frankfurter Str. 250 64293 Darmstadt, Germany Phone: + 49 6151-72 0

# For requests from USA and Canada please contact:

MilliporeSigma
A subsidiary of Merck KGaA, Darmstadt, Germany
400 Summit Drive
Burlington, MA 01803 USA
Phone: 1-800-645-5476

The Vibrant M, NovaSeptum and NovaSeal are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources. © 2015-2019 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved. MK\_UG4318EN Rev 1, 07/2019. Previously published as document number PF17298.

