

# Vacuum Manifold

## Installation Instructions



BGB Analytik  
DR-BGB-2501-EN  
April 2025

## Product Description

BGB SPE vacuum manifolds were specially developed so that solid-phase extraction (SPE) could be conducted efficiently in the laboratory. They make it possible to perform reproducible sample processing in various configurations simultaneously with 10, 12, 16, or 24 sample positions – ideal for high-throughput applications.

Each system consists of a transparent glass vacuum chamber with a fitted lid. The collection rack is adjustable so that it can be adapted flexibly to different sample vessels. Precise vacuum control ensures optimal performance.

Further information, accessories, and spare parts can be found at:  
[www.bgb-analytik.com](http://www.bgb-analytik.com) > products > sample-preparation > spe-manifolds-accessories

## Product Series



10-Port-Manifold: BGMNF1050010



12-Port-Manifold: BGMNF124012



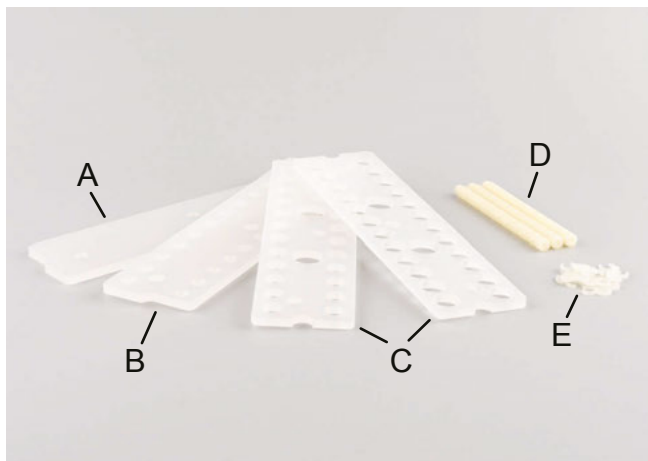
16-Port-Manifold: BGMNF164416



24-Port-Manifold: BGMNF244824

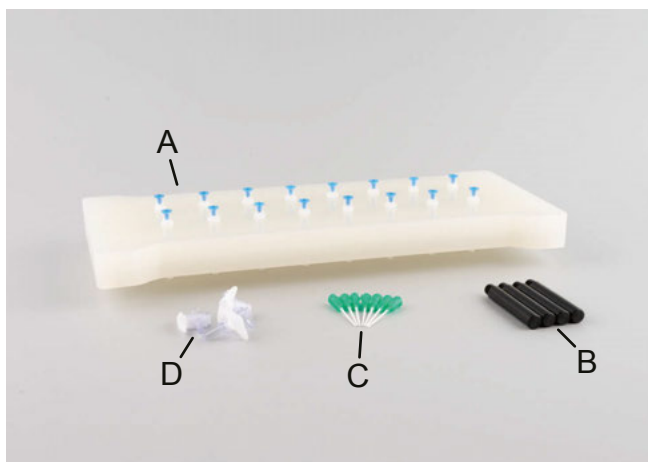
## Glossary

This page provides an overview of the key terms and components to facilitate understanding. Illustrations with legends make it possible to clearly identify and categorize the components.



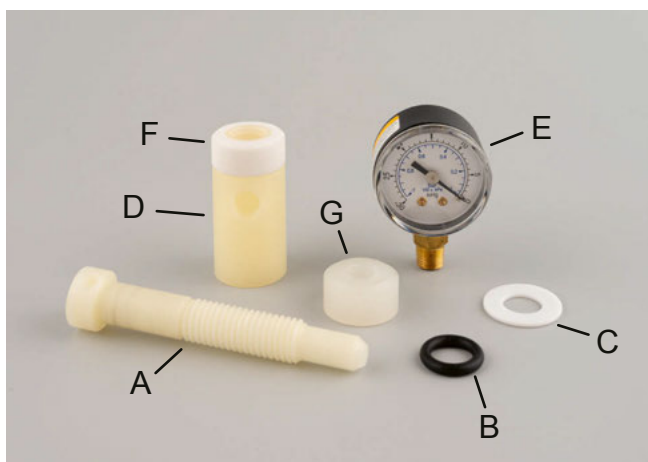
### Collection Rack

- A - Base Plate
- B - Studded Plate
- C - Test Tube Plate
- D - Support Rods
- E - Retaining Clamps



### Lid

- A - Lid
- B - Support Feet
- C - Needles
- D - Stopcocks/Shut-off Valves



### Vacuum Connection Module

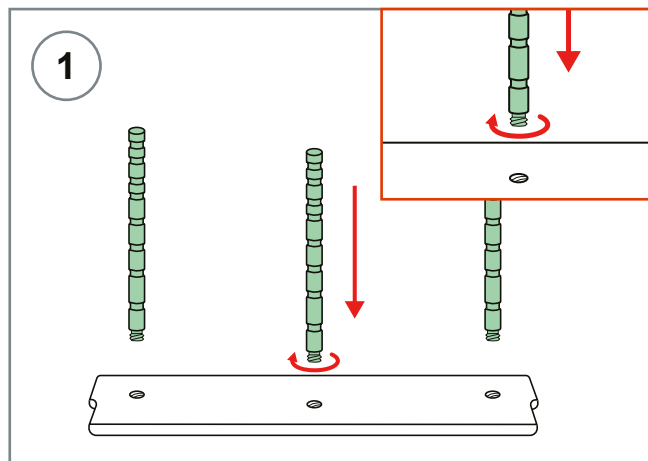
- A - Mounting Rod
- B - Black O-Ring
- C - PTFE Washer
- D - Valve Body
- E - Vacuum Gauge
- F - Vent Valve
- G - Retaining Nut

## Assembly Instructions

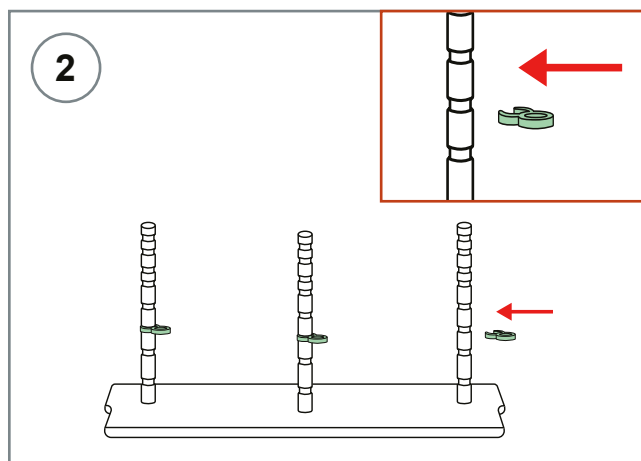
The following pages explain how to assemble the product step by step.

Illustrations have been added to make sure the instructions are clear and can be followed correctly.

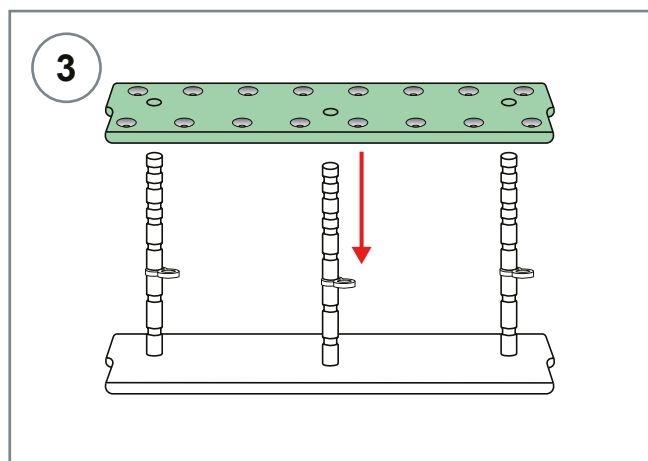
### Structure of the Collection Rack



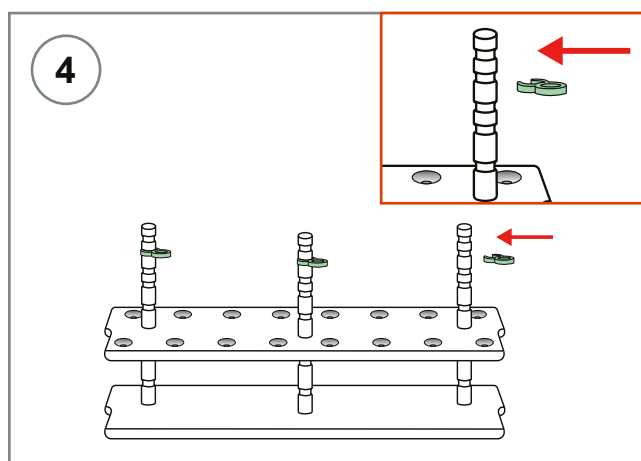
Screw all three support posts into the base plate from above.



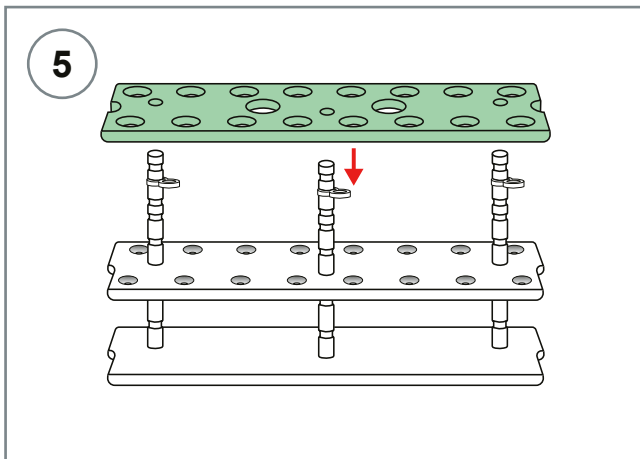
To support the next panel, attach retaining clamps to each of the three support posts in a position of your choice.



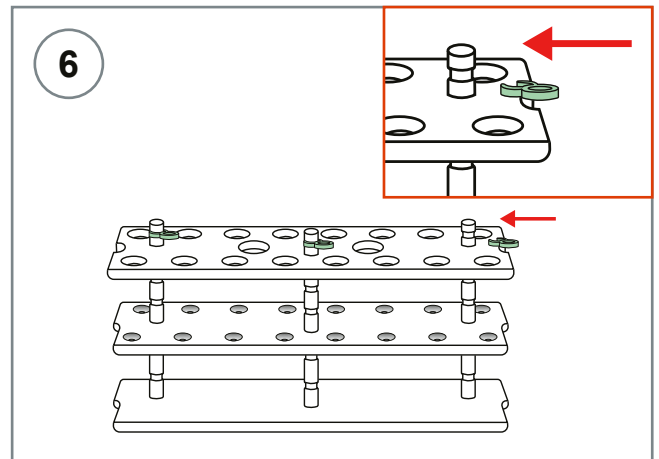
Place the studded plate onto the support posts with the studs facing upwards.



Attach three additional retaining clamps, also at a height of your choosing.



Place the test tube plate onto the support posts from above.

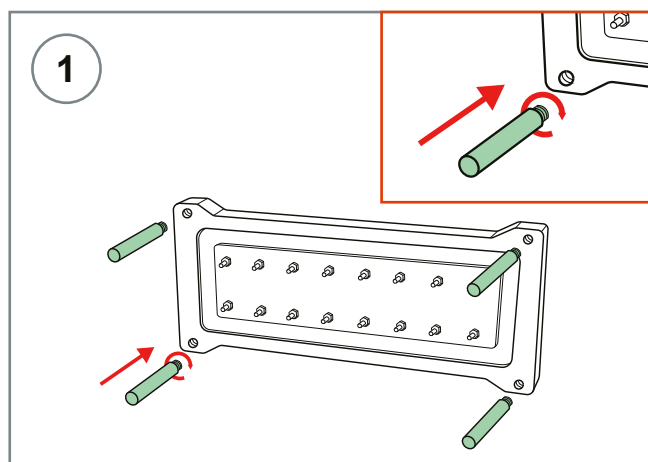


To secure the plate, attach the last three retaining clamps above the test tube plate.

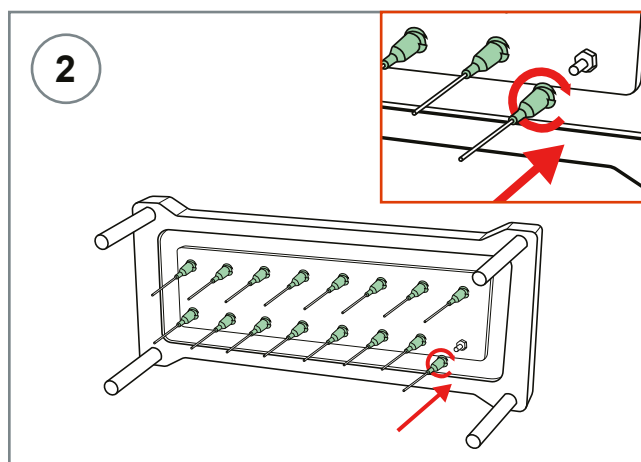


The assembled collection rack should appear as pictured here.

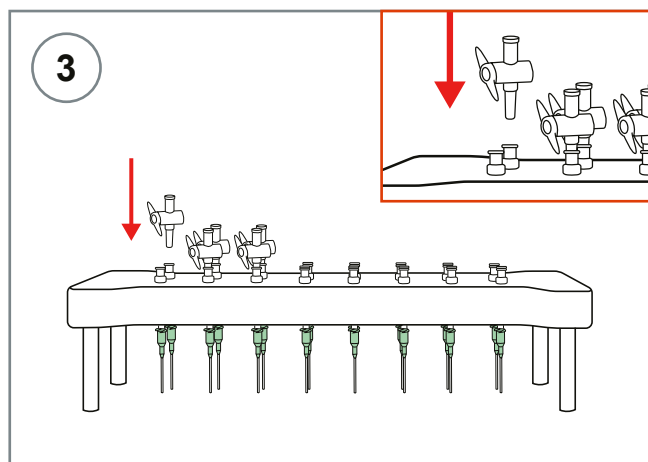
## Assembly of the Lid



Screw the support feet into the holes provided in the lid from below.



Screw the needles into the connection points on the bottom of the lid.

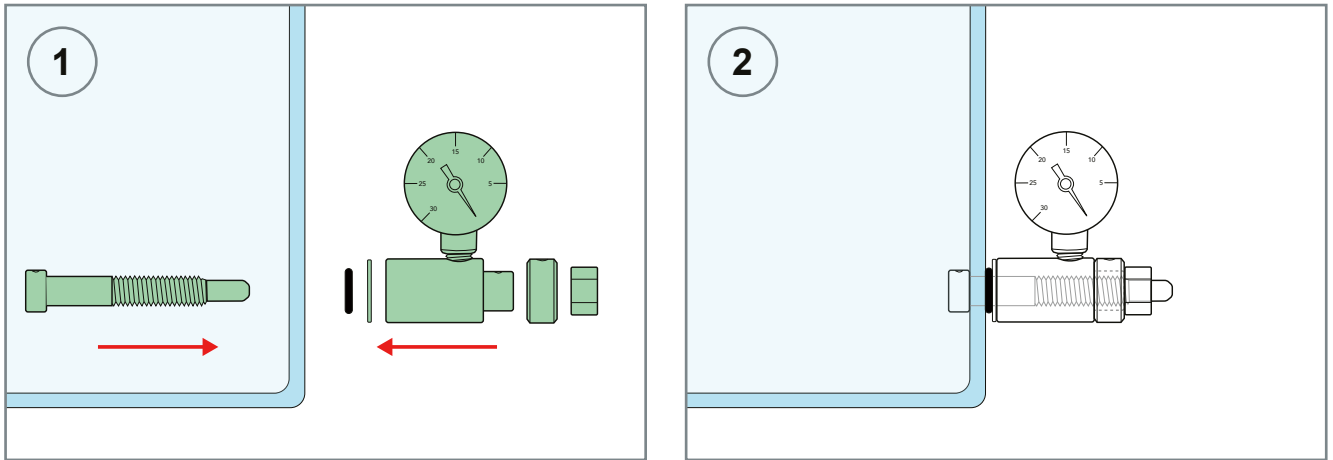


Place the lid on top of the rack and attach the desired number of stopcocks/shut-off valves to the connection points on top of the lid.



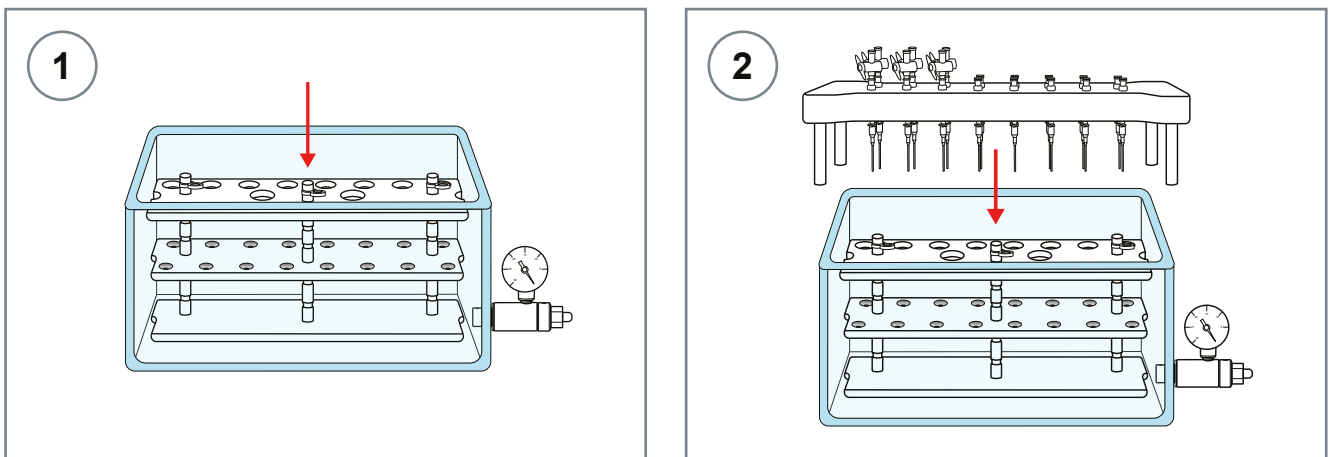
The assembled lid should appear as pictured here.

## Assembly of the Vacuum Connection Module



1. Insert the mounting rod through the opening on the side of the glass chamber. The hole in the thread must face upwards.
2. Place the black O-ring and PTFE washer onto the mounting rod from the outside in the order shown.
3. Then screw the valve body with the vacuum gauge onto the PTFE washer. The vacuum gauge must face upwards.
4. Insert the vent valve with the hole facing upwards and, lastly, secure it with the retaining nut.

## Assembly of the Vacuum Manifold



Insert the collection rack into the glass chamber from above.

Place the lid securely on top of the glass chamber.

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