

# Supplies

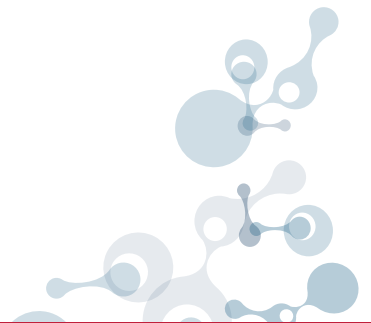
## MultiPurpose Sampler

MPS robotic smart series

MPS robotic

MPS robotic<sup>pro</sup>

MPS liquid





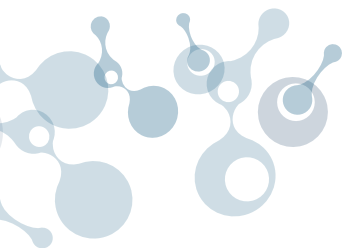
## MultiPurpose Sampler MPS

The MPS robotic is a highly efficient GC-MS autosampler with extended robotic functionality. The MPS robotic provides reliable and efficient processing of complex tasks. Syringes are mounted in individual syringe modules, which can be exchanged automatically within a running sequence when using the MPS robotic<sup>pro</sup> for maximum flexibility.

This Supplies catalogue provides a list of certified consumables, accessories and spare parts essential for the smooth operation of your GERSTEL® MPS robotic. You have the right to demand the highest quality performance from GERSTEL systems and we have compiled this list so that this performance can be maintained throughout the life of your system. Please use only consumables, accessories and spare parts provided by GERSTEL. All GERSTEL products are made to exact specifications. Use of products not approved by GERSTEL can cause system malfunction or damage and may void system warranty.

If you have any questions please do not hesitate to contact GERSTEL. Typically, the most efficient way is to contact your local sales representative.





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## GERSTEL smart syringes & smart SPME fibers

### Smart syringes & SPME fibers for safe and efficient analysis!

GERSTEL smart syringes and smart SPME fibers enable safe and efficient analysis for both complex sample preparations and the processing of large sample series. They combine high quality and precision with intelligent functions to meet the requirements of modern analysis laboratories:

- **Error-free use**  
through "plug and play" and automated setting of properties
- **Complete traceability**  
through a readable and writable chip and a unique ID
- **Greater reliability of results**  
through predefined ranges of method parameters and logging of use

The GERSTEL smart syringes and smart SPME fibers are compatible with the GERSTEL MPS smart series and the GERSTEL MPS robotic/robotic<sup>PRO</sup> systems. GERSTEL smart syringes are available in all common sizes and SPME fibers can be purchased with all common phase materials and combinations.

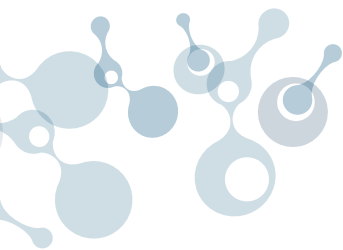
### GERSTEL Smart Syringes

The GERSTEL Smart Syringes simplify your laboratory work and increase the reliability of your analyses.

- **Automatic detection & configuration**  
by the GERSTEL MPS with setting of all relevant parameters
- **Real-time status overview**  
of the parameters of the installed syringe in the GERSTEL Maestro software for optimal control
- **Easy syringe identification**  
through color coding of the smart syringes
- **Interchangeable syringe needles**  
for efficient operating costs with consistent quality

These functions ensure efficient, error-free and precise sample handling in your laboratory - even in complex sample preparation workflows.





## SPME fibres

The smart SPME fibres offer innovative features that optimize your solid phase microextraction and increase the efficiency of your analyses.

- **Easier installation**  
thanks to a new holder design
- **Automatic fiber type recognition**  
for error-free configuration and method creation
- **Real-time status overview**  
of the parameters of the installed SPME fiber (e.g. number of desorption cycles)  
in the GERSTEL Maestro software for optimal control
- **Fast visual identification**  
of fiber type and thickness using color coding

This allows you to perform your sample extraction and analysis in a time-saving, precise and reliable manner.





## MPS robotic/robotic<sup>pro</sup> tools

### GERSTEL Universal Syringe Module USM

The GERSTEL USM is a universal syringe module for liquid syringes ranging from 1 to 1,000 µL total volume. Given the extended volume range, most application requirements can be met without changing syringe modules, saving both time and money – and reducing the risk of error. The USM is compatible with the GERSTEL Gripper enabling automated performance of multiple sample preparation techniques. As an example, GC liners can be replaced automatically at a user defined frequency, using Automated Liner Exchange (ALEX). A further example is the automated thermal desorption of adsorbent tubes, solid samples such as polymers, or GERSTEL Twisters in the Thermal Desorption Unit (TDU).

GERSTEL Universal Syringe Module for MPS robotic for syringes from 1µl up to 1000µL with a needle length of 65mm.  
Prepared for optional GERSTEL gripper.  
Syringes not included.

■ robotic/robotic<sup>pro</sup>

**100100-101-00**

GERSTEL Universal Syringe Module USM with 5-fold needle guide and Blocking - for USM syringes 1µl up to 1000µL  
- not compatible with MPS robotic<sup>pro</sup>  
- compatible with GERSTEL gripper  
Syringes not included.

■ robotic

**100100-173-00**

### GERSTEL Prep Syringe Module PSM

The GERSTEL Prep Syringe Module (PSM) is used for large volume syringes with a total volume of 1 mL or more. The PSM is used for automated sample preparation and is compatible with the GERSTEL Gripper enabling automated Solid Phase Extraction (SPE), Filtration of samples, or Elution of DNPH cartridges.

GERSTEL Prep Syringe Module PSM for MPS robotic for 1, 2.5 or 5 mL Head space Syringe with a needle length of 65 mm.  
Prepared for optional GERSTEL gripper.  
Syringes not included.

■ robotic/robotic<sup>pro</sup>

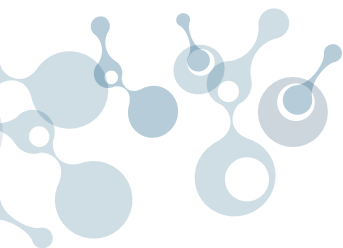
**100100-105-00**

GERSTEL Prep Syringe Module PSM with 5-fold needle guide and reinforcement - for 1, 2.5 or 5 mL PSM syringes  
- Compatible with GERSTEL grippers  
Syringes are not included in the scope of delivery.

■ robotic/robotic<sup>pro</sup>

**100100-176-00**





### Smart SPME fiber kit

consisting of:

SPME Tool

Smart SPME Fiber Assortment Kit (100100-543-00)

SPME Performance Evaluation Mix

■ robotic/robotic<sup>pro</sup>

100100-339-00



### GERSTEL gripper for MPS Robotic/robotic<sup>pro</sup>

Gripper for the following options:

GERSTEL-AutomatedLinerEXchange ALEX,

GERSTEL-AutomatedTDU-LinerEXchange ATEX and

GERSTEL-Dynamic Headspace DHS

■ robotic/robotic<sup>pro</sup>

019597-003-00



### GERSTEL gripper for MPS Robotic/robotic<sup>pro</sup>

5 balls for plastic transportation adapter

Gripper for the following options:

GERSTELSolid Phase Extraction SPE

GERSTEL-Filtration Option

GERSTEL-Disposable Pipette Extraction DPX

■ robotic/robotic<sup>pro</sup>

019597-005-00



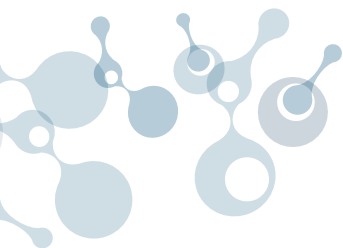


## GERSTEL smart syringes for liquid injection



For GERSTEL Universal Syringe Modul (100100-101-00) in combination with MPS robotic and MPS robotic<sup>pro</sup>, and for MPS liquid.

| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 5            |          | 0.47/0.11/65/C             | 1    | 100111-311-00 |
|                         | 5            |          | 0.63/0.11/65/C             | 1    | 100111-312-00 |
|                         | 10           | ■        | 0.47/0.11/65/C             | 1    | 100111-316-00 |
|                         | 10           | ■        | 0.63/0.11/65/C             | 1    | 100111-318-00 |
|                         | 10           | ■        | 0.72/0.17/65/LC            | 1    | 100111-319-00 |
|                         | 25           | ■        | 0.63/0.11/65/C             | 1    | 100111-300-00 |
|                         | 25           | ■        | 0.72/0.17/65/LC            | 1    | 100111-301-00 |
|                         | 50           | ■        | 0.63/0.11/65/C             | 1    | 100111-302-00 |
|                         | 50           | ■        | 0.72/0.17/65/LC            | 1    | 100111-303-00 |
|                         | 100          | ■        | 0.63/0.11/65/C             | 1    | 100111-304-00 |
|                         | 100          | ■        | 0.72/0.17/65/LC            | 1    | 100111-305-00 |
|                         | 250          | ■        | 0.63/0.32/65/C             | 1    | 100111-320-00 |
|                         | 250          | ■        | 0.72/0.17/65/LC            | 1    | 100111-321-00 |
|                         | 500          | ■        | 0.63/0.32/65/C             | 1    | 100111-322-00 |
|                         | 500          | ■        | 0.72/0.17/65/LC            | 1    | 100111-323-00 |
|                         | 1000         | ■        | 0.63/0.32/65/C             | 1    | 100111-324-00 |
|                         | 1000         | ■        | 0.72/0.37/65/LC            | 1    | 100111-325-00 |
| replacement needle      | 5            |          | 0.47/0.11/65/C             | 2    | 100111-502-00 |
|                         | 5            |          | 0.63/0.11/65/C             | 2    | 100111-503-00 |
|                         | 10           | ■        | 0.47/0.11/65/C             | 2    | 100111-504-00 |
|                         | 10           | ■        | 0.63/0.11/65/C             | 2    | 100111-505-00 |
|                         | 10           | ■        | 0.72/0.17/65/LC            | 2    | 100111-506-00 |
|                         | 25 - 100     | ■        | 0.63/0.11/65/C             | 2    | 100111-500-00 |
|                         | 25 - 100     | ■        | 0.72/0.17/65/LC            | 2    | 100111-501-00 |
|                         | 250 - 500    | ■        | 0.63/0.32/65/C             | 2    | 100111-507-00 |
|                         | 250 - 500    | ■        | 0.72/0.17/65/LC            | 2    | 100111-508-00 |
|                         | 1000         | ■        | 0.63/0.32/65/C             | 2    | 100111-509-00 |
|                         | 1000         | ■        | 0.72/0.37/65/LC            | 2    | 100111-510-00 |



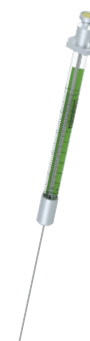
## GERSTEL smart syringes for liquid injection

For GERSTEL Universal Syringe Modul (100100-101-00) in combination with MPS robotic and MPS robotic<sup>pro</sup>, and for MPS liquid.

|                  | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|------------------|--------------|----------|----------------------------|------|---------------|
| needle in needle | 1            |          | 0.47/0.15/65/C             | 1    | 100111-308-00 |
| needle in needle | 1            |          | 0.63/0.15/65/C             | 1    | 100111-306-00 |



| with fixed needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------|--------------|----------|----------------------------|------|---------------|
|                   | 5            |          | 0.63/0.11/65/C             | 1    | 100111-310-00 |
|                   | 10           |          | 0.47/0.11/65/C             | 1    | 100111-313-00 |
|                   | 10           |          | 0.63/0.11/65/C             | 1    | 100111-314-00 |
|                   | 10           | ■        | 0.47/0.11/65/C             | 1    | 100111-315-00 |
|                   | 10           | ■        | 0.63/0.11/65/C             | 1    | 100111-317-00 |





## GERSTEL smart syringes for liquid injection

### For MPS robotic tool D8/85

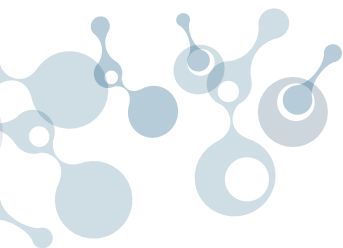


| with replaceable needle | volume<br>µL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 5            |          | 0.63/0.11/85/C             | 1    | 100108-309-00 |
|                         | 10           | ■        | 0.63/0.11/85/C             | 1    | 100108-310-00 |
|                         | 25           | ■        | 0.63/0.11/85/C             | 1    | 100108-300-00 |
|                         | 50           | ■        | 0.63/0.11/85/C             | 1    | 100108-301-00 |
|                         | 100          | ■        | 0.63/0.11/85/C             | 1    | 100108-302-00 |
|                         | 250          | ■        | 0.63/0.32/85/C             | 1    | 100108-303-00 |
|                         | 250          | ■        | 0.72/0.37/35/LC            | 1    | 100108-304-00 |
|                         | 500          | ■        | 0.63/0.32/85/C             | 1    | 100108-305-00 |
|                         | 500          | ■        | 0.72/0.37/85/LC            | 1    | 100108-306-00 |
|                         | 1000         | ■        | 0.63/0.32/85/C             | 1    | 100108-307-00 |
|                         | 1000         | ■        | 0.72/0.37/85/LC            | 1    | 100108-308-00 |
| replacement needle      |              |          |                            |      |               |
|                         | 5            |          | 0.47/0.11/85/C             | 2    | 100108-510-00 |
|                         | 5            |          | 0.63/0.11/85/C             | 2    | 100108-509-00 |
|                         | 10           | ■        | 0.47/0.11/85/C             | 2    | 100111-512-00 |
|                         | 10           | ■        | 0.63/0.11/85/C             | 2    | 100108-511-00 |
|                         | 25 - 100     | ■        | 0.63/0.11/85/C             | 2    | 100108-500-00 |
|                         | 250 - 500    | ■        | 0.63/0.32/85/C             | 2    | 100108-503-00 |
|                         | 250 - 500    | ■        | 0.72/0.37/85/LC            | 2    | 100108-504-00 |
|                         | 1000         | ■        | 0.63/0.32/85/C             | 2    | 100108-507-00 |
|                         | 1000         | ■        | 0.72/0.37/85/LC            | 2    | 100108-508-00 |



### For MPS robotic tool D18/57

| with replaceable needle | volume<br>µL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 10000        | ■        | 0.72/0.37/57/LC            | 1    | 100109-300-00 |
|                         | 10000        | ■        | 1.07/0.65/57/LC            | 1    | 100109-301-00 |
| replacement needle      |              |          |                            |      |               |
|                         | 10000        | ■        | 0.63/0.32/57/C             | 2    | 100109-500-00 |
|                         | 10000        | ■        | 0.72/0.37/57/LC            | 2    | 100109-501-00 |
|                         | 10000        | ■        | 1.07/0.65/57/LC            | 2    | 100108-502-00 |



## GERSTEL-Smart Microliter syringes for liquid injection

### For MPS robotic tool D7/57

| with fixed needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------|--------------|----------|----------------------------|------|---------------|
|                   | 5            |          | 0.63/0.11/57/C             | 1    | 100104-301-00 |
|                   | 10           |          | 0.63/0.11/57/C             | 1    | 100104-210-00 |
|                   | 10           | ■        | 0.63/0.11/57/C             | 1    | 100104-200-00 |
|                   | 100          | ■        | 0.63/0.11/57/C             | 1    | 100104-203-00 |

## GERSTEL smart syringes for Headspace injection

### For MPS robotic Headspace tool HS 1000; HS 2500

| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
| for HS tool HS 1000     | 1000         | ■        | 0.63/0.32/65/H             | 1    | 100106-300-00 |
| for HS tool HS 2500     | 2500         | ■        | 0.63/0.32/65/H             | 1    | 100106-301-00 |
| for HS tool HS 5000     | 5000         | ■        | 0.63/0.32/65/H             | 1    | 100106-302-00 |
| replacement needle      | 1000 - 5000  | ■        | 0.63/0.32/65/H             | 2    | 100106-500-00 |

### for MPS robotic SPE/DPX/Prep syringe module

| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 1000         | ■        | 0.63/0.32/65/C             | 1    | 100112-300-00 |
|                         | 2500         | ■        | 0.63/0.32/65/C             | 1    | 100112-301-00 |
| PFAS free               | 2500         | ■        | 0.63/0.32/65/C             | 1    | 100112-302-00 |
|                         | 5000         | ■        | 0.63/0.32/65/C             | 1    | 100112-308-00 |
| replacement needle      | 1000 - 5000  | ■        | 0.63/0.32/65/C             | 2    | 100112-502-00 |
|                         | 1000 - 5000  | ■        | 0.72/0.37/65/LC            | 2    | 100112-501-00 |





## Smart SPME fiber

1 package (1 units)

### DVB/C-WR/PDMS

(Divinylbenzene / Carbon Wide Range / Polydimethylsiloxane)

Fiber thickness 50/30µm; Fiber length 10mm; color code: dark gray

**100100-479-00**

### A-85/10-P1

(Acrylate (Polyacrylate))

Fiber thickness 85µm; Fiber length 10mm; color code: gray

**100100-523-00**

### C-WR/PDMS

(Carbon Wide Range / Polydimethylsiloxane)

Fiber thickness 95µm; Fiber length 10mm; color code: dunkelblau

**100100-526-00**

### DVB/PDMS

(Divinylbenzene / Polydimethylsiloxane)

Fiber thickness 65µm; Fiber length 10mm; color code: violett

**100100-529-00**

### PDMS

(Polydimethylsiloxane)

Fiber thickness 100µm; Fiber length 10mm; color code: rot

**100100-532-00**

### PDMS

(Polydimethylsiloxane)

Fiber thickness 30µm; Fiber length 10mm; color code: golden

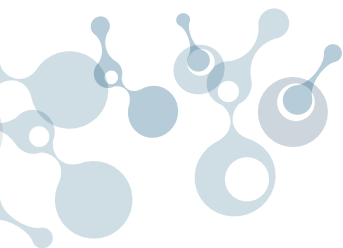
**100100-535-00**

### PDMS

(Polydimethylsiloxane)

Fiber thickness 7µm; Fiber length 10mm; color code: grün

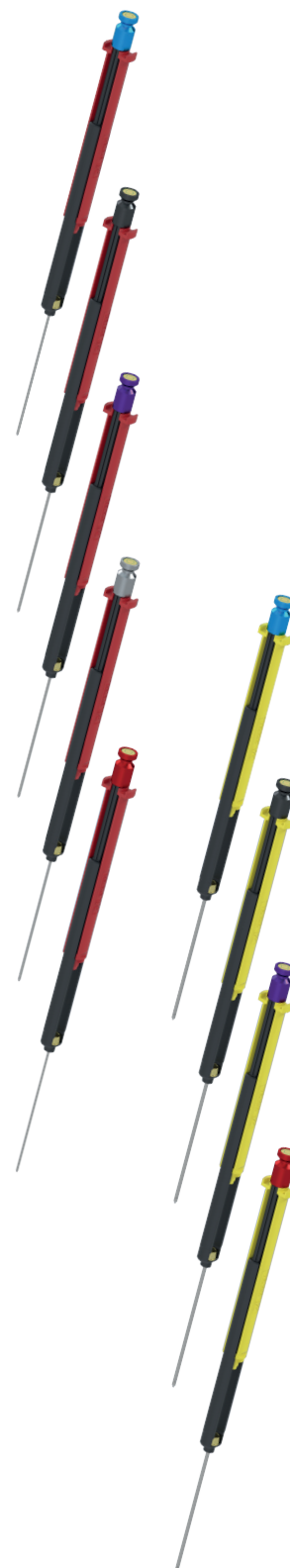
**100100-538-00**



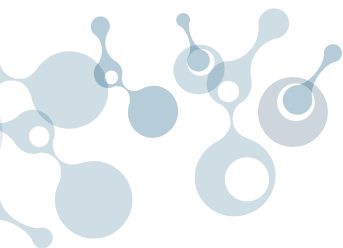
## Smart SPME arrow

1 package (1 units)

|                                                                                                                                                                       |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>C-WR/PDMS</b><br>(Carbon Wide Range / Polydimethylsiloxane)<br>Fiber thickness 120µm; Fiber length 20mm; color code: hellblau                                      | <b>100100-487-00</b> |
| <b>DVB/C-WR/PDMS</b><br>(Divinylbenzene / Carbon Wide Range / Polydimethylsiloxane)<br>Fiber thickness 120µm; Fiber length 20mm; color code: dunkel grau              | <b>100100-490-00</b> |
| <b>DVB/PDMS</b><br>(Divinylbenzene)<br>Fiber thickness 120µm; Fiber length 20mm; color code: violett                                                                  | <b>100100-493-00</b> |
| <b>A-100/20-P1</b><br>Acrylate (Polyacrylate)<br>Fiber thickness 100µm; Fiber length 20mm; color code: grau                                                           | <b>100100-496-00</b> |
| <b>PDMS</b><br>(Polydimethylsiloxane)<br>Fiber thickness 100µm; Fiber length 20mm; color code: rot                                                                    | <b>100100-499-00</b> |
| <b>C-WR / PDMS - wide sleeve</b><br>(Carbon Wide Range / Polydimethylsiloxane)<br>Fiber thickness 120µm; Fiber length 20mm; color hell blau                           | <b>100100-502-00</b> |
| <b>DVB/C-WR/PDMS - wide sleeve</b><br>(Divinylbenzene / Carbon Wide Range / Polydimethylsiloxane)<br>Fiber thickness 120µm; Fiber length 20mm; color code: dunkelgrau | <b>100100-505-00</b> |
| <b>DVB/PDMS - wide sleeve</b><br>(Divinylbenzene)<br>Fiber thickness 120µm; Fiber length 20mm; color code: violett                                                    | <b>100100-508-00</b> |
| <b>PDMS - wide sleeve</b><br>(Polydimethylsiloxane)<br>Fiber thickness 100µm; Fiber length 20mm; color code: rot                                                      | <b>100100-511-00</b> |







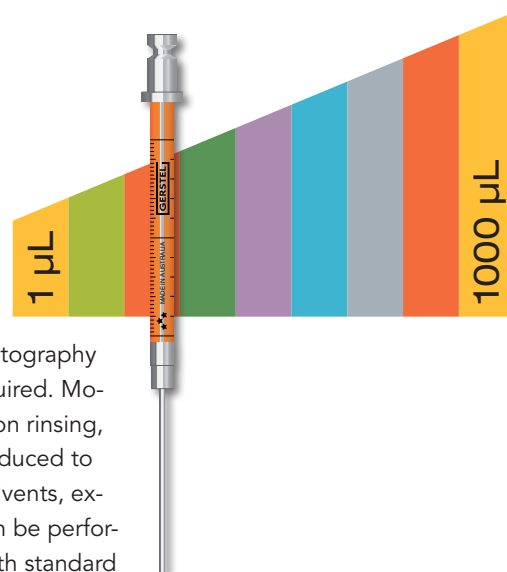
## GERSTEL TriStar Syringes

### Autosampler Syringes for the MPS family

You need an excellent autosampler syringe in order to perform complex sample preparation methods and reliably inject large series of samples to a chromatography system. Lowest possible sample to sample carry-over and highest accuracy are required. Modern mass spectrometers detect every trace contamination placing high demands on rinsing, solvent quality and syringe quality. GERSTEL TriStar Syringes are designed and produced to meet these demands. The rugged and inert materials used provide resilience to solvents, expanded temperature range and long life expectancy. The number of cycles that can be performed with TriStar syringes has been expanded by a factor of up to ten compared with standard syringes.

The TriStar syringe series offers several improvements to minimize or eliminate sources for carry-over, such as reduced residual volumes and active sites inside the syringe.

The sample is kept clean and uncontaminated, and the needle remains solidly mounted without the risk of solvent attacking the glue. GERSTEL TriStar Syringes for the GERSTEL MPS family are available in all standard sizes.



### Benefits of the GERSTEL TriStar Syringes

#### Color coded

- Easy selection of the correct syringe volume through clear and unambiguous color coding
- Reliable analysis, the risk of incorrect syringe selection is minimized

#### Inert, rugged material

- Reliable analysis performance with solvent-resistant surfaces
- Extended temperature range for increased ruggedness and application range
- Long life span with reliable operation

#### Optimized assembly

- Carry-over minimized through reduced residual volumes in the plunger assembly, improved surfaces and PTFE surface sealing
- Carry over and contamination reduced through improved syringe-to-needle connection, eliminating cavities and contact with glue.
- Active plunger tip provides improved Headspace syringe sealing and reduced temperature equilibration times resulting in improved flexibility and productivity

#### Compatibility:

- Previous versions plungers and needles can be used for TriStar syringes, but it is not recommended to use TriStar plungers and needles for previous version syringes.

| Color       | Syringe volume |        |
|-------------|----------------|--------|
| Yellow      | 1 µL           | 1 mL   |
| Lime        | 5 µL           | 5 mL   |
| Dark Orange | 10 µL          |        |
| Green       | 25 µL          |        |
| Purple      | 50 µL          |        |
| Aqua        | 100 µL         |        |
| Grey        | 250 µL         | 2.5 mL |
| Dark Orange | 500 µL         |        |

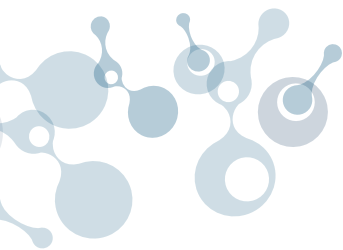


## GERSTEL TriStar syringes for liquid injection

For GERSTEL Universal Syringe Modul (100100-101-00) in combination with MPS robotic and MPS robotic<sup>pro</sup>, and for MPS liquid.



| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 5            |          | 0.47/0.11/65/C             | 1    | 100111-011-00 |
|                         | 5            |          | 0.63/0.11/65/C             | 1    | 100111-012-00 |
|                         | 10           | ■        | 0.47/0.11/65/C             | 1    | 100111-016-00 |
|                         | 10           | ■        | 0.63/0.11/65/C             | 1    | 100111-018-00 |
|                         | 10           | ■        | 0.72/0.17/65/LC            | 1    | 100111-019-00 |
|                         | 25           | ■        | 0.63/0.11/65/C             | 1    | 100111-000-00 |
|                         | 25           | ■        | 0.72/0.17/65/LC            | 1    | 100111-001-00 |
|                         | 50           | ■        | 0.63/0.11/65/C             | 1    | 100111-002-00 |
|                         | 50           | ■        | 0.72/0.17/65/LC            | 1    | 100111-003-00 |
|                         | 100          | ■        | 0.63/0.11/65/C             | 1    | 100111-004-00 |
|                         | 100          | ■        | 0.72/0.17/65/LC            | 1    | 100111-005-00 |
|                         | 250          | ■        | 0.63/0.32/65/C             | 1    | 100111-020-00 |
|                         | 250          | ■        | 0.72/0.17/65/LC            | 1    | 100111-021-00 |
|                         | 500          | ■        | 0.63/0.32/65/C             | 1    | 100111-022-00 |
|                         | 500          | ■        | 0.72/0.17/65/LC            | 1    | 100111-023-00 |
|                         | 1000         | ■        | 0.63/0.32/65/C             | 1    | 100111-024-00 |
|                         | 1000         | ■        | 0.72/0.37/65/LC            | 1    | 100111-025-00 |
| replacement plunger     |              |          |                            |      |               |
|                         | 10           | ■        |                            | 1    | 100111-800-00 |
|                         | 25           | ■        |                            | 1    | 100111-801-00 |
|                         | 50           | ■        |                            | 1    | 100111-802-00 |
|                         | 100          | ■        |                            | 1    | 100111-803-00 |
|                         | 250          | ■        |                            | 1    | 100111-804-00 |
|                         | 500          | ■        |                            | 1    | 100111-805-00 |
|                         | 1000         | ■        |                            | 1    | 100111-806-00 |
| replacement needle      |              |          |                            |      |               |
|                         | 5            |          | 0.47/0.11/65/C             | 2    | 100111-502-00 |
|                         | 5            |          | 0.63/0.11/65/C             | 2    | 100111-503-00 |
|                         | 10           | ■        | 0.47/0.11/65/C             | 2    | 100111-504-00 |
|                         | 10           | ■        | 0.63/0.11/65/C             | 2    | 100111-505-00 |
|                         | 10           | ■        | 0.72/0.17/65/LC            | 2    | 100111-506-00 |
|                         | 25 - 100     | ■        | 0.63/0.11/65/C             | 2    | 100111-500-00 |
|                         | 25 - 100     | ■        | 0.72/0.17/65/LC            | 2    | 100111-501-00 |
|                         | 250 - 500    | ■        | 0.63/0.32/65/C             | 2    | 100111-507-00 |
|                         | 250 - 500    | ■        | 0.72/0.17/65/LC            | 2    | 100111-508-00 |
|                         | 1000         | ■        | 0.63/0.32/65/C             | 2    | 100111-509-00 |
|                         | 1000         | ■        | 0.72/0.37/65/LC            | 2    | 100111-510-00 |



## GERSTEL TriStar syringes for liquid injection

For GERSTEL Universal Syringe Modul (100100-101-00) in combination with MPS robotic and MPS robotic<sup>pro</sup>, and for MPS liquid.

|                           | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|---------------------------|--------------|----------|----------------------------|------|---------------|
| needle in needle          | 1            |          | 0.47/0.15/65/C             | 1    | 100111-008-00 |
| needle in needle          | 1            |          | 0.63/0.15/65/C             | 1    | 100111-006-00 |
| <b>repair kit</b>         |              |          |                            |      |               |
| for syringe 100111-008-00 | 1            |          | 0.47/0.15/65/C             | 2    | 100111-551-00 |
| for syringe 100111-006-00 | 1            |          | 0.63/0.15/65/C             | 2    | 100111-550-00 |

| with fixed needle          | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|----------------------------|--------------|----------|----------------------------|------|---------------|
|                            | 5            |          | 0.47/0.11/65/C             | 1    | 100111-009-00 |
|                            | 5            |          | 0.63/0.11/65/C             | 1    | 100111-010-00 |
|                            | 10           |          | 0.47/0.11/65/C             | 1    | 100111-013-00 |
|                            | 10           |          | 0.63/0.11/65/C             | 1    | 100111-014-00 |
|                            | 10           | ■        | 0.47/0.11/65/C             | 1    | 100111-015-00 |
|                            | 10           | ■        | 0.63/0.11/65/C             | 1    | 100111-017-00 |
| <b>replacement plunger</b> |              |          |                            |      |               |
|                            | 10           | ■        |                            | 1    | 100111-800-00 |





## GERSTEL TriStar syringes for liquid injection

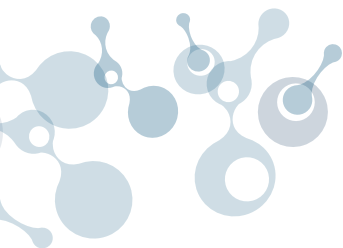
For MPS robotic tool D8/85

| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 5            |          | 0.63/0.11/85/C             | 1    | 100108-009-00 |
|                         | 10           | ■        | 0.63/0.11/85/C             | 1    | 100108-010-00 |
|                         | 25           | ■        | 0.63/0.11/85/C             | 1    | 100108-000-00 |
|                         | 50           | ■        | 0.63/0.11/85/C             | 1    | 100108-001-00 |
|                         | 100          | ■        | 0.63/0.11/85/C             | 1    | 100108-002-00 |
|                         | 250          | ■        | 0.63/0.32/85/C             | 1    | 100108-003-00 |
|                         | 250          | ■        | 0.72/0.37/35/LC            | 1    | 100108-004-00 |
|                         | 500          | ■        | 0.63/0.32/85/C             | 1    | 100108-005-00 |
|                         | 500          | ■        | 0.72/0.37/85/LC            | 1    | 100108-006-00 |
|                         | 1000         | ■        | 0.63/0.32/85/C             | 1    | 100108-007-00 |
|                         | 1000         | ■        | 0.72/0.37/85/LC            | 1    | 100108-008-00 |
| replacement plunger     | 10           | ■        |                            | 1    | 100111-800-00 |
|                         | 25           | ■        |                            | 1    | 100111-801-00 |
|                         | 50           | ■        |                            | 1    | 100111-802-00 |
|                         | 100          | ■        |                            | 1    | 100111-803-00 |
|                         | 250          | ■        |                            | 1    | 100111-804-00 |
|                         | 500          | ■        |                            | 1    | 100111-805-00 |
|                         | 1000         | ■        |                            | 1    | 100111-806-00 |
| replacement needle      | 5            |          | 0.47/0.11/85/C             | 2    | 100108-510-00 |
|                         | 5            |          | 0.63/0.11/85/C             | 2    | 100108-509-00 |
|                         | 10           | ■        | 0.47/0.11/85/C             | 2    | 100111-512-00 |
|                         | 10           | ■        | 0.63/0.11/85/C             | 2    | 100108-511-00 |
|                         | 25 - 100     | ■        | 0.63/0.11/85/C             | 2    | 100108-500-00 |
|                         | 250 - 500    | ■        | 0.63/0.32/85/C             | 2    | 100108-503-00 |
|                         | 250 - 500    | ■        | 0.72/0.37/85/LC            | 2    | 100108-504-00 |
|                         | 1000         | ■        | 0.63/0.32/85/C             | 2    | 100108-507-00 |
|                         | 1000         | ■        | 0.72/0.37/85/LC            | 2    | 100108-508-00 |

## GERSTEL Microliter syringes for Headspace injection

For MPS robotic tool D7/57

| with fixed needle   | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|---------------------|--------------|----------|----------------------------|------|---------------|
|                     | 5            |          | 0.63/0.11/57/C             | 1    | 100104-001-00 |
|                     | 10           |          | 0.63/0.11/57/C             | 1    | 100104-010-00 |
|                     | 10           | ■        | 0.63/0.11/57/C             | 1    | 100104-100-00 |
|                     | 50           | ■        | 0.63/0.11/57/C             | 1    | 100104-102-00 |
|                     | 100          | ■        | 0.63/0.11/57/C             | 1    | 100104-101-00 |
| replacement plunger | 50           | ■        |                            | 1    | 100104-802-00 |
|                     | 100          | ■        |                            | 1    | 100104-803-00 |



## GERSTEL TriStar syringes for liquid injection

For MPS robotic tool D18/57

| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 10000        |          | 0.72/0.37/57/LC            | 1    | 100109-000-00 |
|                         | 10000        |          | 1.07/0.65/57/LC            | 1    | 100109-001-00 |
| replacement plunger     | 10000        | ■        |                            | 1    | 100109-800-00 |
| replacement needle      | 10000        | ■        | 0.63/0.32/57/C             | 2    | 100109-500-00 |
|                         | 10000        | ■        | 0.72/0.37/57/LC            | 2    | 100109-501-00 |
|                         | 10000        | ■        | 1.07/0.65/57/LC            | 2    | 100109-502-00 |

## GERSTEL TriStar HS syringe for Headspace injection

For MPS robotic Headspace tool HS 1000; HS 2500

| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
| für HS tool HS 1000     | 1000         | ■        | 0.63/0.32/65/H             | 1    | 100106-000-00 |
| für HS tool HS 2500     | 2500         | ■        | 0.63/0.32/65/H             | 1    | 100106-001-00 |
| replacement plunger     | 1000         | ■        |                            | 2    | 100106-800-00 |
|                         | 2500         | ■        |                            | 2    | 100106-801-00 |
| replacement needle      | 1000 - 2500  | ■        | 0.63/0.32/65/H             | 2    | 100106-500-00 |

## GERSTEL TriStar syringe

for MPS robotic SPE/DPX/Prep syringe module

| with replaceable needle | volume<br>μL | gastight | needle<br>OD/ID/L/Tip [mm] | unit | Part No.      |
|-------------------------|--------------|----------|----------------------------|------|---------------|
|                         | 1000         | ■        | 0.63/0.32/65/C             | 1    | 100112-000-00 |
|                         | 2500         | ■        | 0.63/0.32/65/C             | 1    | 100112-001-00 |
| replacement plunger     | 1000         | ■        |                            | 1    | 100111-800-00 |
|                         | 2500         | ■        |                            | 1    | 100111-801-00 |
| replacement needle      | 1000 - 2500  | ■        | 0.63/0.32/65/C             | 2    | 100112-502-00 |
|                         | 1000 - 2500  | ■        | 0.72/0.37/65/LC            | 2    | 100112-501-00 |



## SPME fiber

### SPME fiber kits

1 package (3 units)

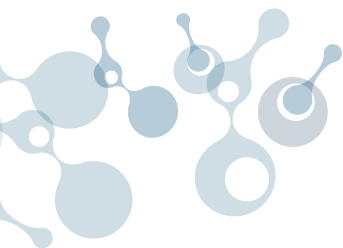
Fibers used for automated SPME analysis have no spring – in contrast to fibers for manual SPME. Consequently, there are separate holders for each fiber type. The fibers listed here are designed exclusively for automated SPME analysis using the MPS. They are not suitable for manual SPME analysis.

For use with the GERSTEL® Cooled Injection System, CIS

23 gauge (OD=0.63 mm) fibers and SPME liner are recommended.



|                                                                             |                         |               |
|-----------------------------------------------------------------------------|-------------------------|---------------|
| gases and low molecular compounds                                           |                         |               |
| ● 75 µm carboxen/polydimethylsiloxane                                       | 23 gauge (OD = 0.63 mm) | 093639-009-00 |
| gases and low molecular compounds                                           |                         |               |
| ● 85 µm carboxen/polydimethylsiloxane, on StableFlex™ fiber                 | 23 gauge (OD = 0.63 mm) | 093639-024-00 |
| volatiles and semivolatiles                                                 |                         |               |
| ○ 85 µm polyacrylate                                                        |                         |               |
| ● 100 µm polydimethylsiloxane                                               |                         |               |
| ● 7 µm polydimethylsiloxane coating                                         | 23 gauge (OD = 0.63 mm) | 093639-028-00 |
| volatile or polar organics in water                                         |                         |               |
| ● 75 µm Carboxen/Polydimethylsiloxan                                        |                         |               |
| ● 65 µm Polydimethylsiloxan/Divinylbenzol                                   |                         |               |
| ○ 85 µm Polyacrylat                                                         | 23 gauge (OD = 0.63 mm) | 093639-029-00 |
| flavors and odors                                                           |                         |               |
| ● 100 µm polydimethylsiloxane,                                              |                         |               |
| ● 65 µm polydimethylsiloxane/divinylbenzene,                                |                         |               |
| ● 75 µm carboxen/polydimethylsiloxane                                       | 23 gauge (OD = 0.63 mm) | 093639-030-00 |
| flavors                                                                     |                         |               |
| ● 50/30 µm divinylbenzene/carboxen/polydimethylsiloxane on StableFlex fiber | 23 gauge (OD = 0.63 mm) | 093639-026-00 |
| on 2 cm StableFlex fiber                                                    | 23 gauge (OD = 0.63 mm) | 093639-027-00 |
| ● 100 µm polydimethylsiloxane                                               |                         |               |
| ● 85 µm carboxen/polydimethylsiloxane                                       |                         |               |
| ● 50/30 µm DVB/carboxen/polydimethylsiloxane                                | 23 gauge (OD = 0.63 mm) | 093639-037-00 |



## SPME fiber kits

for automated SPME using the MPS;  
1 package (3 units)

volatiles

|                               |                         |               |
|-------------------------------|-------------------------|---------------|
| ● 100 µm polydimethylsiloxane | 23 gauge (OD = 0.63 mm) | 093639-001-00 |
|-------------------------------|-------------------------|---------------|

non-polar semivolatiles

|                              |                         |               |
|------------------------------|-------------------------|---------------|
| ● 30 µm polydimethylsiloxane | 23 gauge (OD = 0.63 mm) | 093639-020-00 |
|------------------------------|-------------------------|---------------|

non-polar high molecular weight compounds

|                             |                         |               |
|-----------------------------|-------------------------|---------------|
| ● 7 µm polydimethylsiloxane | 23 gauge (OD = 0.63 mm) | 093639-021-00 |
|-----------------------------|-------------------------|---------------|

volatiles, amines, and nitroaromatic compounds

|                                                                    |                         |               |
|--------------------------------------------------------------------|-------------------------|---------------|
| ● 65 µm polydimethylsiloxane/divinylbenzene, partially crosslinked | 23 gauge (OD = 0.63 mm) | 093639-005-00 |
|--------------------------------------------------------------------|-------------------------|---------------|

volatiles, amines, and nitroaromatic compounds

|                                                                                     |                         |               |
|-------------------------------------------------------------------------------------|-------------------------|---------------|
| ● 65 µm polydimethylsiloxane/divinylbenzene, highly crosslinked on StableFlex fiber | 23 gauge (OD = 0.63 mm) | 093639-022-00 |
|-------------------------------------------------------------------------------------|-------------------------|---------------|

polar semivolatiles

|                     |                         |               |
|---------------------|-------------------------|---------------|
| ○ 85 µm Polyacrylat | 23 gauge (OD = 0.63 mm) | 093639-023-00 |
|---------------------|-------------------------|---------------|

|                                                     |                         |               |
|-----------------------------------------------------|-------------------------|---------------|
| ● 60 µm Carbowax-Polyethylene Glycol on metal fiber | 23 gauge (OD = 0.63 mm) | 093639-043-00 |
|-----------------------------------------------------|-------------------------|---------------|

## SPME Stableflex fiber kits

23 gauge (OD = 0.63 mm), 4 fibers

|                                             |                         |               |
|---------------------------------------------|-------------------------|---------------|
| ● 50/30 µm Divinylbenzene/Carboxen          |                         |               |
| ● 65 µm Polydimethylsiloxane/Divinylbenzene |                         |               |
| ● 85 µm Carboxen/Polydimethylsiloxane       |                         |               |
| ○ 85 µm Polyacrylat                         | 23 gauge (OD = 0.63 mm) | 093639-031-00 |

## SPME metal fiber kits

23 gauge (OD = 0.63 mm), 1 fiber

volatiles

|                                           |                         |               |
|-------------------------------------------|-------------------------|---------------|
| ● 100 µm polydimethylsiloxane, non-bonded | 23 gauge (OD = 0.63 mm) | 093639-033-00 |
|-------------------------------------------|-------------------------|---------------|

non-polar semivolatiles

|                                          |                         |               |
|------------------------------------------|-------------------------|---------------|
| ● 30 µm polydimethylsiloxane, non bonded | 23 gauge (OD = 0.63 mm) | 093639-034-00 |
|------------------------------------------|-------------------------|---------------|

non-polar high molecular weight compounds

|                                     |                         |               |
|-------------------------------------|-------------------------|---------------|
| ● 7 µm polydimethylsiloxane, bonded | 23 gauge (OD = 0.63 mm) | 093639-035-00 |
|-------------------------------------|-------------------------|---------------|

volatiles, amines, and nitroaromatic compounds

|                                             |                         |               |
|---------------------------------------------|-------------------------|---------------|
| ● 65 µm polydimethylsiloxane/divinylbenzene | 23 gauge (OD = 0.63 mm) | 093639-038-00 |
|---------------------------------------------|-------------------------|---------------|

flavors

|                                                         |                         |               |
|---------------------------------------------------------|-------------------------|---------------|
| ● 50/30 µm divinylbenzene/carboxen Polydimethylsiloxane | 23 gauge (OD = 0.63 mm) | 093639-040-00 |
|---------------------------------------------------------|-------------------------|---------------|

|                   |                         |               |
|-------------------|-------------------------|---------------|
| fiber length 2 cm | 23 gauge (OD = 0.63 mm) | 093639-041-00 |
|-------------------|-------------------------|---------------|





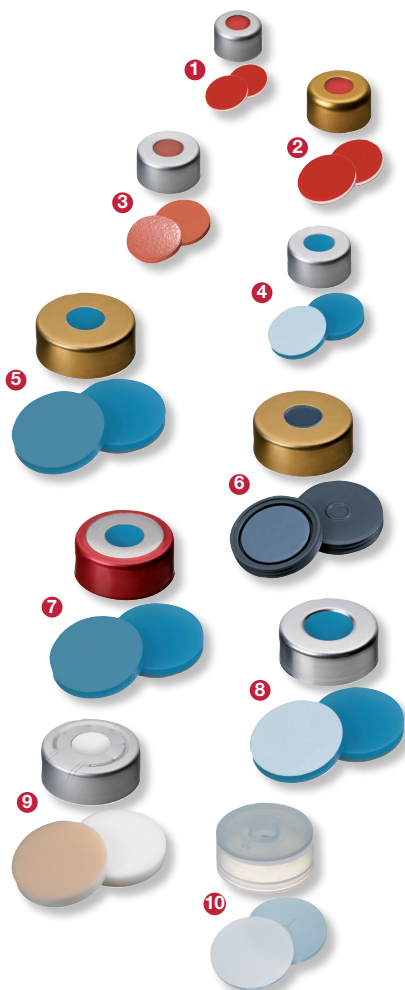
## Sample vials and caps

### Crimp cap vials

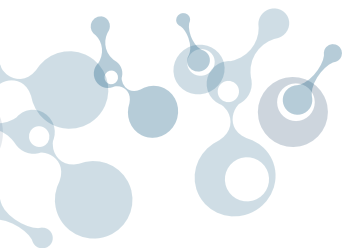
| Type                                  | mL  | Seal size (mm) | unit | Part no.               |
|---------------------------------------|-----|----------------|------|------------------------|
| clear                                 | 0.7 | 8              | 100  | <b>093640-052-00</b> 1 |
| clear                                 | 1.5 | 11             | 100  | <b>093640-004-00</b> 2 |
| clear                                 | 2.5 | 11             | 100  | <b>093640-074-00</b> 3 |
| clear                                 | 10  | 20             | 100  | <b>093640-005-00</b> 4 |
| clear                                 | 10  | 20             | 1000 | <b>093640-069-00</b> 4 |
| clear                                 | 20  | 20             | 100  | <b>093640-006-00</b> 5 |
| clear                                 | 20  | 20             | 1000 | <b>093640-068-00</b> 5 |
| clear                                 | 25  | 20             | 100  | <b>093640-073-00</b> 6 |
| clear                                 | 100 | 20             | 88   | <b>093640-062-00</b> 6 |
| Solvent bottle, includes cap & septum | 100 | 20             | 1    | <b>093631-054-00</b> 7 |

### Crimp caps with septum for vials

If vials need to be reopened and emptied after analysis, magnetic vial caps with aluminum edges (Bi-metal) offer the best solution. The softer edges allow easy crimping and decrimping using a hand-crimper. If steel caps are used, it is recommended to use a bench-top crimper.



| Type                                                                            | for Seal size | unit        | Part no.                                         |
|---------------------------------------------------------------------------------|---------------|-------------|--------------------------------------------------|
| Aluminum<br>Septum: Silicone white/PTFE red                                     | 8             | 100         | <b>093640-053-00</b> 1                           |
| Magnetic, golden<br>Septum: Silicone red/PTFE red                               | 11            | 100         | <b>093640-007-00</b> 2                           |
| Aluminum<br>Septum: natural rubber red-orange/<br>PTFE Transparent, 60° shore A | 11            | 100         | <b>093640-089-00</b> 3                           |
| Aluminum<br>Septum: Silicone blue/PTFE white,<br>45° shore A                    | 11            | 100         | <b>093640-090-00</b> 4                           |
| Magnetic, golden,<br>Septum: Silicone blue, PTFE white                          | 20<br>20      | 100<br>1000 | <b>093640-008-00</b> 5<br><b>093640-015-00</b> 5 |
| Magnetic, golden,<br>Pharma-Fix-Septum: Butyl /PTFE white                       | 20            | 100         | <b>093640-070-00</b> 6                           |
| Bi-Metal, Magnetic, red,<br>Septum: Silicone blue, PTFE white                   | 20            | 100         | <b>093640-063-00</b> 7                           |
| Aluminum,<br>Septum: Silicone blue/PTFE white,<br>35° Shore A                   | 20            | 100         | <b>093640-067-00</b> 8                           |
| Aluminum,<br>Septum: Silicone white, PTFE beige,<br>35° Shore A,                | 20            | 100         | <b>011912-002-00</b> 9                           |
| PE Cap, transparent<br>Septum: Silicone blue/PTFE white<br>45° Shore A,         | 20            | 10          | <b>093640-097-00</b> 10                          |



## Vials for SPME



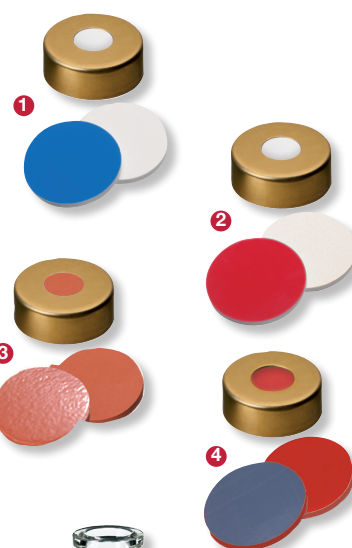
| Type                                                      | mL | Seal size (mm) | unit | Part no.             |
|-----------------------------------------------------------|----|----------------|------|----------------------|
| Clear, with imprint »SPME«<br>with extra thick crimp neck | 20 | 20             | 100  | <b>093640-035-00</b> |

## Crimp caps for SPME

Magnetic, golden, with septum

For SPME applications, crimp caps of steel with silicone septa are recommended. If the sample is analyzed for silicone, it is recommended to use butyl rubber septa or natural rubber septa. For a leak-free seal, it is recommended to use a bench-top crimper.

| Type                                                                           | for Seal size | unit | Part no.               |
|--------------------------------------------------------------------------------|---------------|------|------------------------|
| Septum: Silicone white/PTFE blue,<br>1.5 mm, 60° Shore A, for SPME vial        | 20            | 100  | <b>093640-030-00</b> ① |
| Septum: Silicone creme, PTFE red,<br>1.5 mm, 55° Shore A, for SPME vial        | 20            | 100  | <b>093640-031-00</b> ② |
| Septum: Natural rubber, red-orange/PTFE,<br>1.3 mm, 60° Shore A, for SPME vial | 20            | 100  | <b>093640-034-00</b> ③ |
| Septum: Butyl red / PTFE grey,<br>1.3 mm, 55° Shore A, for SPME vial           | 20            | 100  | <b>093640-050-00</b> ④ |



## Vials, inserts, and caps for HSSE Twister inserts

| Type                                                                                        | mL | Seal size (mm) | unit | Part no.             |
|---------------------------------------------------------------------------------------------|----|----------------|------|----------------------|
| Clear, with imprint »Twister«,<br>with extra thick crimp neck                               | 20 | 20             | 100  | <b>012491-000-00</b> |
| Insert for Twister Vial 012491-000-00                                                       |    |                | 100  | <b>012492-000-00</b> |
| Aluminium Headspace Crimp cap,<br>Septum: Silicone white/PTFE beige,<br>3.25mm, 35° shore A |    | 20             | 100  | <b>011912-002-00</b> |



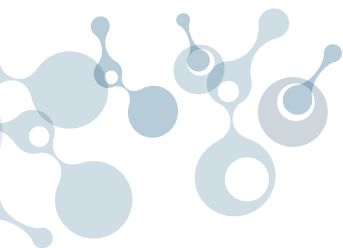


### Screw cap vials

| Vials                                                         | mL  | Thread Ø | unit | Part no.      |    |
|---------------------------------------------------------------|-----|----------|------|---------------|----|
| Clear, Ø11.6 x 32 mm                                          | 1.1 | 9        | 100  | 093640-045-00 | 1  |
| Clear, Ø11.6 x 32 mm                                          | 1.5 | 9        | 100  | 093640-046-00 | 2  |
| Brown, green screw caps,<br>Septum: PTFE/Silicone/PTFE        | 1.5 | 9        | 100  | 089355-084-00 | 3  |
| Clear, blue screw caps,<br>Septum: rubber red/PTFE            | 1.5 | 9        | 100  | 089355-085-00 | 4  |
| Brown, Ø11.6 x 32 mm,<br>short screw neck                     | 1.5 | 9        | 100  | 093640-095-00 | 5  |
| Clear, Ø15 x 45 mm<br>HIGH RECOVERY VIAL                      | 3.5 | 11       | 100  | 093640-098-00 | 6  |
| Clear, Ø14.7 x 45 mm                                          | 4   | 11       | 100  | 093640-076-00 | 7  |
| Clear                                                         | 10  | 18       | 100  | 093640-038-00 | 8  |
| Brown                                                         | 10  | 18       | 100  | 093640-039-00 | 9  |
| Clear                                                         | 20  | 18       | 100  | 093640-036-00 | 10 |
| Brown                                                         | 20  | 18       | 100  | 093640-037-00 | 11 |
| Clear, Ø27.5 x 95 mm                                          | 40  | 18       | 100  | 094210-000-00 | 12 |
| Microliter inserts for 2 mL<br>screw cap vials, clear         | 0.1 |          | 100  | 093640-029-00 | 13 |
| For 10 mm Twisters:<br>Insert Ø 6 x 31 mm, clear, flat bottom | 0.2 |          | 100  | 093640-047-00 | 14 |

### Screw caps with septa

|                                                                               | Thread Ø | unit | Part no.      |   |
|-------------------------------------------------------------------------------|----------|------|---------------|---|
| PP transparent,<br>Septum: Silicone blue / PTFE white,<br>1.3 mm, 45° Shore A | 9        | 100  | 093640-072-00 | 1 |
| PP blue,<br>Septum: Silicone white/PTFE red,<br>1.0 mm, 55° shore A           | 9        | 100  | 093640-075-00 | 2 |
| UltraClean™, magnetic, golden<br>Septum: Silicone white/PTFE red<br>1.0 mm    | 9        | 100  | 093640-079-00 | 3 |
| PP black,<br>Septum: Silicon blue/PTFE white,<br>1.3 mm 45° shore A           | 11       | 100  | 093640-081-00 | 4 |
| PP black,<br>Septum: Natural rubber red-orange/<br>TEF transparent, 1.3 mm    | 11       | 100  | 093640-077-00 | 5 |



## Screw caps with septa

Magnetic metal based vial caps enable transport and automation using the GERSTEL MultiPurpose Sampler

|                                                                                                         | Thread Ø | unit | Part no.        |
|---------------------------------------------------------------------------------------------------------|----------|------|-----------------|
| Septum: Silicone blue / PTFE white, 1.3 mm, 45° Shore A                                                 | 18       | 100  | 093640-040-00 1 |
| Septum: Silicon white / PTFE blue, 1.5 mm, 60° Shore A                                                  | 18       | 100  | 093640-041-00 2 |
| Septum: Butyl red / PTFE grey, 1.6 mm, 55° Shore A                                                      | 18       | 100  | 093640-042-00 3 |
| Septum: Viton black, 1.0 mm, 75° Shore A                                                                | 18       | 100  | 093640-043-00 4 |
| Septum: Natural rubber / TEF; 1.3 mm, 60° Shore A                                                       | 18       | 100  | 093640-100-00 5 |
| Polypropylene white, <b>non-magnetic</b><br>Septum: Silicone natural / PTFE beige, 3.2 mm; 45° Shore A, | 24       | 100  | 094210-003-00 6 |
| Polypropylene white, <b>non-magnetic</b><br>with hole 12.5 mm<br>without Septum                         | 24       | 100  | 094210-001-00 7 |



## Septa for 10/20 mL screw cap vials

| Septum                                                      | unit | Part no.        |
|-------------------------------------------------------------|------|-----------------|
| Silicone blue transparent / PTFE white, 1.3 mm, 35° Shore A | 100  | 093640-057-00 1 |
| Silicone white / PTFE blue, 1.5 mm, 60° Shore A             | 100  | 093640-056-00 2 |
| Butyl red / PTFE grey, 1.6 mm, 55° Shore A                  | 100  | 093640-058-00 3 |
| Viton black, 1.0 mm, 75° Shore A                            | 100  | 093640-059-00 4 |



## Filter inserts 17 µm for 10/20 mL screw cap vials

without vials and screw caps

For:

10 mL screw cap vials 093640-038-00 and

20 mL screw cap vials 093640-036-00

with screw cap 093640-040-00

- 50 units
- 1000 units
- 5000 units

020006-050-00  
020006-100-00  
020006-500-00





## Sample loop

SS Sample loop 1/16" for Cheminert injection valve

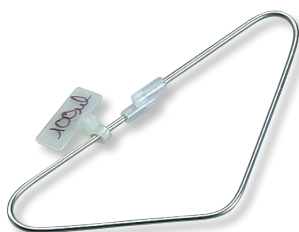


|         |               |
|---------|---------------|
| 2 µL    | 093731-154-00 |
| 5 µL    | 093731-224-00 |
| 10 µL   | 093731-153-00 |
| 20 µL   | 093731-034-00 |
| 25 µL   | 093731-243-00 |
| 50 µL   | 093731-033-00 |
| 100 µL  | 093731-032-00 |
| 250 µL  | 093731-031-00 |
| 500 µL  | 093731-030-00 |
| 1000 µL | 093731-107-00 |
| 2000 µL | 093731-108-00 |
| 5000 µL | 093731-109-00 |

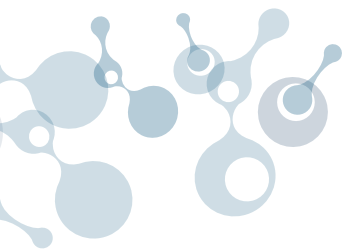
Sulfinert Sample loop 1/16" for Cheminert injection valve

|         |               |
|---------|---------------|
| 100 µL  | 093731-123-00 |
| 500 µL  | 093731-124-00 |
| 1000 µL | 093731-125-00 |

PEEK Sample loop 1/16" for Cheminert PAEK injection valve



|       |               |
|-------|---------------|
| 2 µL  | 093731-158-00 |
| 3 µL  | 093731-265-00 |
| 5 µL  | 093731-157-00 |
| 10 µL | 093731-156-00 |
| 20 µL | 093731-155-00 |
| 50 µL | 093731-184-00 |



SS Sample loop 1/16" for Valco W-Type injection valve

|         |               |
|---------|---------------|
| 2 µL    | 093731-049-00 |
| 5 µL    | 093731-050-00 |
| 10 µL   | 093731-051-00 |
| 15 µL   | 093731-052-00 |
| 20 µL   | 093731-011-00 |
| 25 µL   | 093731-053-00 |
| 30 µL   | 093731-054-00 |
| 50 µL   | 093731-010-00 |
| 100 µL  | 093731-009-00 |
| 200 µL  | 093731-070-00 |
| 250 µL  | 093731-055-00 |
| 500 µL  | 093731-008-00 |
| 1000 µL | 093731-007-00 |



SS Sample loop 1/16" for Rheodyne injection valve

|         |               |
|---------|---------------|
| 5 µL    | 093731-129-00 |
| 10 µL   | 093731-130-00 |
| 20 µL   | 093731-131-00 |
| 50 µL   | 093731-132-00 |
| 100 µL  | 093731-133-00 |
| 500 µL  | 093731-248-00 |
| 1000 µL | 093731-249-00 |

PEEK Sample loop 1/16" for Rheodyne injection valve

|        |               |
|--------|---------------|
| 5 µL   | 093731-134-00 |
| 10 µL  | 093731-135-00 |
| 20 µL  | 093731-136-00 |
| 50 µL  | 093731-137-00 |
| 100 µL | 093731-138-00 |



S00135-700-02



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