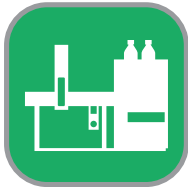
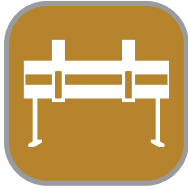


**GERSTEL**  
certified

# SUPPLIES



## MultiPurpose Sampler MPS

*New Version with  
GERSTEL TriStar syringes  
and conversion table*





## GERSTEL® MultiPurpose Sampler MPS

Versatile autosampler and sample preparation robot for GC/MS, LC/MS, and standalone WorkStation operation.

Modern laboratory processes frequently offer significant potential for improvement in the fields of sample preparation and sample introduction. Improving productivity and performance while cutting per sample cost is realistic provided you have chosen an autosampler that rises to the task and can be adapted to meet new challenges as demands change.

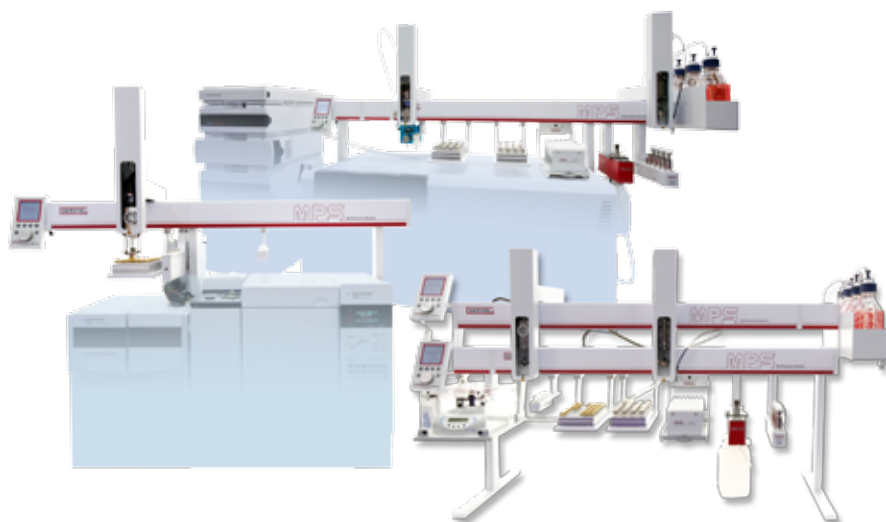
The GERSTEL MultiPurpose Sampler MPS enables highly efficient automation of sample preparation and sample introduction for GC/MS and LC/MS. Or you can use the MPS as WorkStation independent of the analysis system(s), providing prepared samples for multiple techniques in the lab. Whichever MPS you choose, you are sure to get reliable results and increased throughput combined with the flexibility to adapt effortlessly to changes and new challenges.

This Supplies catalogue provides a list of certified consumables, accessories and spare parts essential for the smooth operation of your GERSTEL® MPS. 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.

### Content

<b>Syringe kits and Syringe holders</b>	4
<b>Syringes</b>	6
GERSTEL TriStar syringes	6
Microliter syringes	7
GERSTEL TriStar HS syringes	8
Microliter syringes for LC & LC/MS	10
Syringe kits for LC/MS	10
GERSTEL TriStar syringes for SPE/DPX	11
Dilutor syringes	11
Sideport syringes	11
<b>Viols and Caps</b>	12
Crimp Cap vials	12 - 13
Crimp Caps	12 - 13
Screw neck vials	14 - 15
Screw caps	14 - 15
<b>SPME fibers</b>	16
SPME fiber holder	16
SPME fiber kits	16
SPME Stableflex fiber kits	17
SPME metal fiber kits	17
MFX SPME Stableflex fiber kits	18
MFX SPME metal fiber kits	18 - 19
<b>Sample loops</b>	20 - 21
<b>Conversion table for syringes/plungers/needles</b>	22





**GERSTEL Syringe kit 10 µL with Universal Syringe Holder**

consisting of:  
 GERSTEL universal syringe holder;  
 plunger holder;  
 2 syringes 10 µL

volume µL	units	Part No.
10	1	010054-000-00



**GERSTEL Headspace Syringe kit**

consisting of:  
 GERSTEL universal headspace syringe holder;  
 plunger holder;  
 2 syringes

volume mL	units	Part No.
1.0	1	010055-010-00
2.5	1	010055-025-00

**CTC Syringe Holders**



volume µL	units	Part No.
10	1	093632-000-00
25	1	093632-001-00
100	1	093632-002-00
250	1	093632-003-00
500	1	093632-004-00
1000	1	093632-005-00
2500	1	093632-012-00
5000	1	093632-013-00

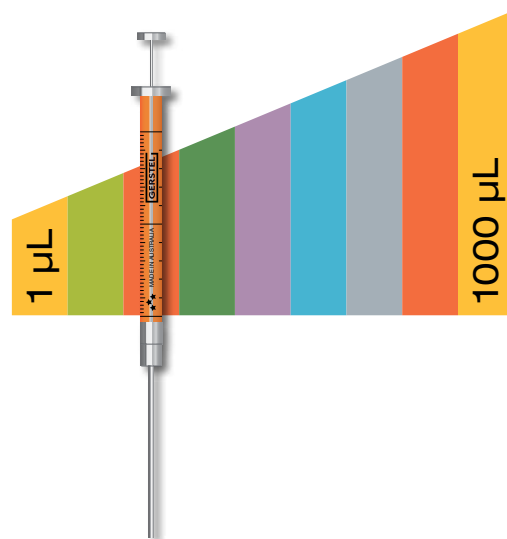
## GERSTEL TriStar Syringes

### Autosampler Syringes for the MPS

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 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 GC & GC/MS**

*for liquid injection*



The listed syringes all have 23 Gauge needles (OD = 0.63 mm) and are compatible with the GERSTEL® Septumless Head (SLH). Needles have conical tips (type C or AS).

**For GERSTEL Universal syringe holder (013822-000-00).**  
For use with ALEX/TDU/DHS Gripper (Not for SPE/DPX gripper)



with fixed needle	volume μL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
needle in needle	1.2		0.5/.../.../26P	1	<b>093611-010-00</b>
	5		0.63/0.11/52.2/C	1	<b>022000-000-00</b>
	10		0.47/0.11/52.2/C	1	<b>022000-052-00</b>
	10		0.63/0.11/52.2/C	1	<b>022000-050-00</b>
	10	●	0.63/0.11/52.2/C	1	<b>022000-051-00</b>
<b>replacement plunger*</b> for syringe 022000-051-00	10	●		1	<b>022000-400-00</b>



with replaceable needle	volume μL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
	5		0.63/0.11/51.5/C	1	<b>022000-001-00</b>
	10	●	0.63/0.11/51.6/C	1	<b>022000-053-00</b>
	100	●	0.63/0.24/52.0/C	1	<b>022000-200-00</b>
	250	●	0.63/0.24/52.0/C	1	<b>022000-250-00</b>
	500	●	0.63/0.24/52.0/C	1	<b>022000-251-00</b>
	1000	●	0.63/0.32/53.5/C	1	<b>022000-300-00</b>
<b>replacement plunger*</b>	10	●		1	<b>022000-401-00</b>
	100	●		1	<b>022000-550-00</b>
	250	●		1	<b>022000-600-00</b>
	500	●		1	<b>022000-601-00</b>
	1000	●		1	<b>022000-650-00</b>
<b>replacement needle*</b>	5		0.63/0.11/51.5/C	2	<b>022000-800-00</b>
	10		0.63/0.11/51.6/C	2	<b>022000-801-00</b>
	10 (On Column)		0.47/0.11/51.5/C	2	<b>022000-802-00</b>
	100-250		0.63/0.24/52.0/C	2	<b>022000-805-00</b>
	100-500		0.72/0.37/51.0/LC	5	<b>009970-069-00</b>
	1000		0.63/0.32/53.5/C	2	<b>022000-806-00</b>
	1000		0.72/0.37/53.5/LC	2	<b>022000-807-00</b>

\*Replacement plungers and -needles for TriStar and previous syringe versions are compatible, see conversion table on page 22

## Microliter syringes for GC & GC/MS

for liquid injection

### CTC Syringe Holders for GC and GC/MS.

Syringes for use only with dedicated syringe holders, specific to the syringe size.

	volume μL	gastight	needle Gauge/Type	unit	Part No.
needle in needle	1.2		26-AS	1	093611-010-00
with fixed needle	5		26P-AS	1	093611-011-00
with fixed needle	10		26S-AS	1	093611-012-00
with fixed needle	10	●	26S-AS	1	093611-063-00
with fixed needle	10		26S-2	1	093611-013-00
with fixed needle	10		23S-AS	1	093611-068-00
with fixed needle	25	●	26P-AS	1	093611-014-00
with fixed needle	100	●	26S-AS	1	093611-015-00
with fixed needle	250	●	26P-AS	1	093611-016-00



### Syringes for 10μL CTC Syringe Holder (093632-000-00) for GC and GC/MS.

Syringe holder type detection must be deactivated during operation.

Not compatible with TDU/ALEX or SPE/DPX gripper.

	volume μL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
with fixed needle	5		0.63/.../50.0/C	1	022003-000-00
with fixed needle	10		0.63/.../50.0/C	1	022003-050-00
with fixed needle	25	●	0.63/.../50.0/C	1	009970-004-00
with replaceable needle	100	●	0.63/0.15/50.0/C	1	009970-005-00
with replaceable needle	250	●	0.63/0.15/50.0/C	1	009970-006-00
<b>replacement needle*</b>	100-250		0.63/0.15/50.0/C	2	022003-800-00



\*Replacement plungers and -needles for TriStar and previous syringe versions are compatible, see conversion table on page 22

**Part No.**



**GERSTEL TriStar HS syringes** for Headspace injection up to 100°C



	volume mL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
with replaceable needle	1	●	0.63/0.15/57.0/HS	1	<b>022001-301-00</b>
with replaceable needle	2.5	●	0.63/0.15/57.0/HS	1	<b>022001-326-00</b>
<b>replacement plunger*</b>					
	1	●		1	<b>022002-651-00</b>
	2.5	●		1	<b>022002-701-00</b>
<b>replacement needle*</b>					
	1 - 2.5		0.63/0.15/57.0/HS	2	<b>022001-802-00</b>
	1 - 2.5		0.63/0.32/57.0/HS	2	<b>022001-803-00</b>



**GERSTEL TriStar HS syringes** for Headspace injection up to 150°C



	volume mL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
with replaceable needle	1	●	0.63/0.15/57.0/HS	1	<b>022001-300-00</b>
with replaceable needle	2.5	●	0.63/0.15/57.0/HS	1	<b>022001-325-00</b>
<b>replacement plunger*</b>					
	1	●		1	<b>022002-650-00</b>
	2.5	●		1	<b>022002-700-00</b>
<b>replacement needle*</b>					
	1		0.63/0.15/57.0/HS	2	<b>022001-802-00</b>
	2.5		0.63/0.32/57.0/HS	2	<b>022001-803-00</b>

\*Replacement plungers and -needles for TriStar and previous syringe versions are compatible, see conversion table on page 22



**Part No.**

**GERSTEL TriStar (heated operation) syringes**

for use with HS syringe holder and adapter 010711-000-00



	volume μL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
with fixed needle	10		0.63/0.11/59.1/C	1	022001-050-00
with replaceable needle	10	●	0.63/0.11/53.1/C	10	022001-051-00
	10		0.63/0.11/53.1/C	1	022001-052-00
<b>replacement needle*</b>	10		0.63/0.11/53.1/C	2	022001-800-00

	volume μL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
with replaceable needle	100	●	<b>Please note: Before use with the heated syringe holder the standard needle must be replaced with needle 022001-801-00</b>	1	022000-200-00
with replaceable needle	250	●		1	022000-250-00
<b>replacement plunger*</b>	100	●		1	022000-550-00
	250	●		1	022000-600-00
<b>replacement needle*</b>	100-500		0.63/0.24/57.0/C	2	022001-801-00



\*Replacement plungers and -needles for TriStar and previous syringe versions are compatible, see conversion table on page 22



### Microliter syringes for LC & LC/MS

The needle types 22 and 22S have the same outer diameter: 0.72 mm OD and a straight needle tip (Type LC or 3). Type 22 and 22S differ only by their internal diameter ( 0.41 mm and 0.15 mm ID respectively); Due to the larger ID, a type 22 needle enables faster syringe filling: Up to 200 µL/sec for type 22 as opposed to 10 – 20 µL/sec for the 22S.



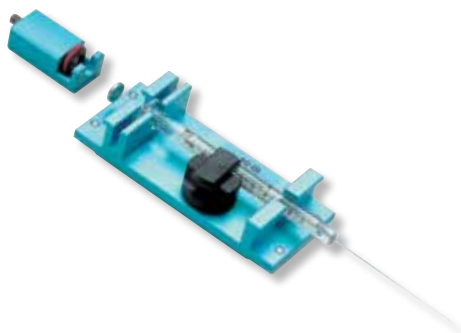
volume µL	Type	needle gauge	unit	Part No.
10	C	22S	1	093711-014-00
25	C	22S	1	093711-001-00
25	X	22S	1	093711-042-00
50	X	22S	1	093711-053-00
100	C	22S	1	093711-002-00
100	C	22	1	093711-028-00
100	X	22S	1	093711-043-00
100	X	22	1	093711-044-00
250	C	22	1	093711-003-00
500	C	22	1	093711-027-00
1000	C	22	1	093711-004-00
2500	C	22	1	093711-005-00
5000	C	22	1	093711-006-00
5000		19	1	093731-113-00

#### replacement plunger

10	C		10	093611-026-00
25	C		10	093611-020-00
25	X		3	093711-048-00
50	X		3	093711-054-00
100	C		10	093611-021-00
100	X		3	093711-049-00
250	C		10	093611-022-00
500	C		10	093711-026-00
1000	C		1	093711-019-00
2500	C		1	093711-020-00
5000	C		1	093711-021-00

### Syringe kits for LC & LC/MS

with syringe detect, consisting of: plunger holder, syringe adapter and 2 syringes



volume µL	Type	needle gauge	unit	Part no.
10	C	22S	1	093711-007-00
25	C	22S	1	093711-008-00
25	X	22S	1	093711-045-00
50	X	22S	1	093711-051-00
100	C	22S	1	093711-009-00
100	X	22S	1	093711-046-00
100	X	22	1	093711-052-00
250	C	22	1	093711-010-00
500	C	22	1	093711-047-00
1000	C	22	1	093711-011-00
2500	C	22	1	093711-012-00
5000	C	22	1	093711-013-00

### GERSTEL TriStar syringes for SPE/DPX

for use with GERSTEL Solid Phase Extraction (SPE) and GERSTEL Disposable Pipette Extraction (DPX)

	volume μL	gastight	needle OD/ID/L/Tip [mm]	unit	Part No.
with replaceable needle	1000	●	without needle	1	022002-300-00
with replaceable needle	2500	●	without needle	1	022002-325-00
with replaceable needle	5000	●	without needle	1	009970-071-00
<b>replacement plunger*</b>					
	1000	●		1	022002-650-00
	2500	●		1	022002-700-00
	5000	●		1	009970-066-00
<b>replacement needle*</b>					
	1000-2500		0.63/0.36/57.0/C	2	022002-800-00
	1000-2500		0.72/0.37/57.0/LC	2	022002-801-00
	5000		0.72/0.37/56.0/LC	2	022002-804-00
	1000-2500		0.63/0.36/60.0/C	2	022002-802-00
	1000-2500		0.72/0.37/60.0/LC	2	022002-803-00
	5000		0.72/0.37/60.0/LC	2	022002-805-00
	5000		0.63/0.32/56.0/HS	2	022002-806-00



\*Replacement plungers and -needles for TriStar and previous syringe versions are compatible, see conversion table on page 22

### MPS dilutor syringes

	volume	unit	Part No.
<b>Syringe</b>	1 mL	1	093631-091-00
	2.5 mL	1	093631-092-00
	5 mL	1	093631-093-00
	10 mL	1	093631-094-00
<b>replacement plunger</b>			
	1 mL	1	093632-038-00
	2.5 mL	1	093632-039-00
	5 mL	1	093632-040-00
	10 mL	1	093632-041-00
<b>PTFE ferrule</b>		1	093632-045-00



### MPS sideport syringes without needle

For use with MPS sideport syringe adapter (not compatible with GERSTEL® Universal Syringe holder)

	volume μL	gastight	needle Gauge/Type	unit	Part No.
for replaceable needle	20	●	without needle	1	093631-096-00
for replaceable needle	80	●	without needle	1	093631-095-00
<b>replacement plunger</b>					
	20	●		10	093611-034-00
	80	●		10	093611-027-00
<b>replacement needle</b>					
	20		22 s/PS3	3	093711-023-00
	20		26/AS	3	093611-029-00
	80		22/PS3	3	093711-022-00
	80		26/AS	3	093611-028-00





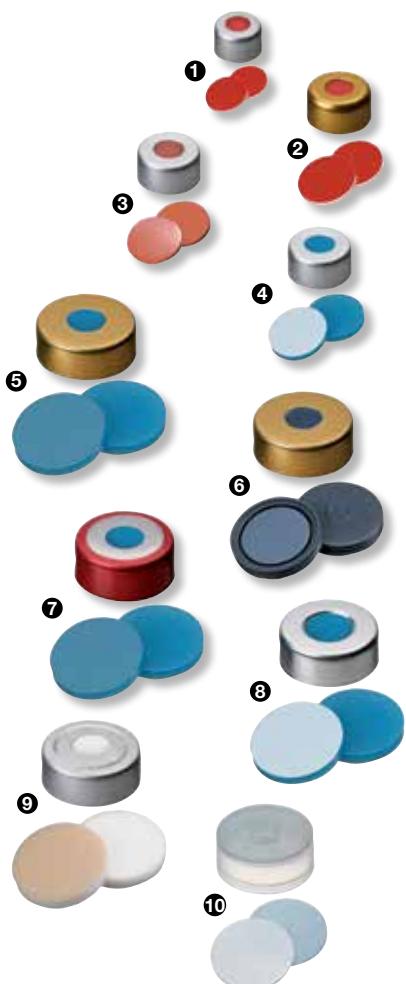
### Sample vials and caps

#### 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 (mm)	unit	Part no.
Aluminum Septum: Silicone white/PTFE red,	8	100	<b>093640-053-00</b> ①
Magnetic, golden Septum: Silicone red/PTFE red,	11	100	<b>093640-007-00</b> ②
Aluminum Septum: natural rubber red-orange/ PTFE Transparent, 60° shore A,	11	100	<b>093640-089-00</b> ③
Aluminum Septum: Silicone blue/PTFE white, 45° shore A,	11	100	<b>093640-090-00</b> ④
Magnetic, golden, Septum: Silicone blue, PTFE white	20 20	100 1000	<b>093640-008-00</b> ⑤ <b>093640-015-00</b> ⑤
Magnetic, golden, Pharma-Fix-Septum: Butyl /PTFE white,	20	100	<b>093640-070-00</b> ⑥
Bi-Metal, Magnetic, red, Septum: Silicone blue, PTFE white,	20	100	<b>093640-063-00</b> ⑦
Aluminum, Septum: Silicone blue/PTFE white, 35° Shore A,	20	100	<b>093640-067-00</b> ⑧
Aluminum, Septum: Silicone white, PTFE beige, 35° Shore A,	20	100	<b>011912-002-00</b> ⑨
PE Cap, transparent Septum: Silicone blue/PTFE white 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« with extra thick crimp neck	20	20	100	093640-035-00

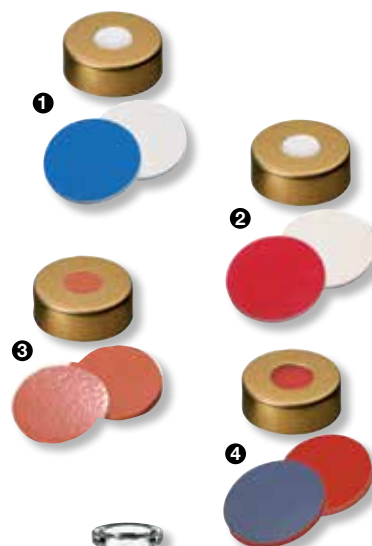


### Crimp caps for SPME

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



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

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





**Screw cap vials**

Vials	mL	Thread Ø	unit	Part no.
Clear, Ø11.6 x 32 mm, for 20 mm Twisters	1.1	9	100	093640-045-00 ①
Clear, Ø11.6 x 32 mm, for 10 mm Twisters	1.5	9	100	093640-046-00 ②
Brown, green screw caps, Septum: PTFE/Silicone/PTFE	1.5	9	100	089355-084-00 ③
Clear, blue screw caps, Septum: rubber red/PTFE	1.5	9	100	089355-085-00 ④
Brown, Ø11.6 x 32 mm, short screw neck	1.5	9	100	093640-095-00 ⑤
Clear, Ø15 x 45 mm 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
Micro-liter inserts for 2 mL screw cap vials, clear	0.1		100	093640-029-00 ⑬
For 10 mm Twisters: Insert Ø 6 x 31 mm, clear, flat bottom	0.2		100	093640-047-00 ⑭

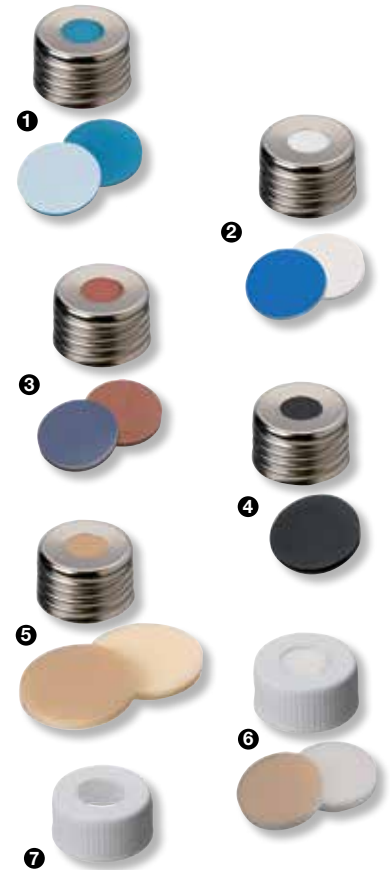
**Screw caps with septa**

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

### Screw caps with septa

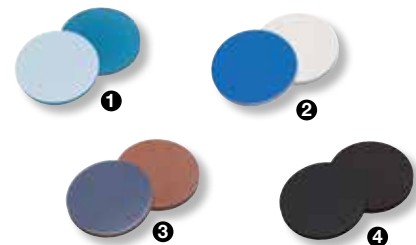
Magnetic metal based vial caps enable transport and automation using the GERSTEL MultiPurpose Sampler

	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> Septum: Silicone natural / PTFE beige, 3.2 mm; 45° Shore A,	18	100	094210-003-00 ⑥
Polypropylene white, <b>non-magnetic</b> with hole 12.5 mm without Septum	18	100	094210-001-00 ⑦



### Septa for screw caps 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



**Part No.**



**SPME fiber holder**

*Designed for mounting SPME fibers for automated SPME analysis.*

**093639-000-00**

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.

**SPME fiber kits**

*1 package (3 units)*



**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/polydimethylsiloxane
- 65 µm polydimethylsiloxane/divinylbenzene
- 85 µm polyacrylate  
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**
- 50/30 µm DVB/carboxen/polydimethylsiloxane 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**





**Part No.**

**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 polyacrylate, partially crosslinked  
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**

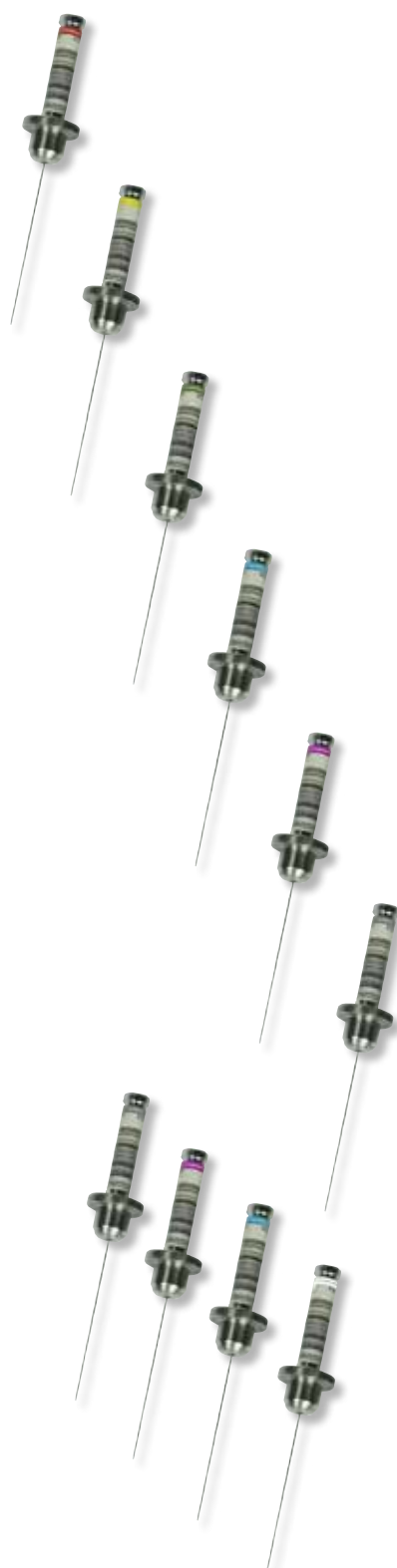
- 65 µm polydimethylsiloxane/divinylbenzene  
23 gauge (OD = 0.63 mm) **093639-038-00**

**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**



Part No.



**MFX SPME Fast Fit Assembly (SPME-FFA)**

for SPME MultiFiber Exchange (MFX) with MPS;  
1 package (3 units)

**volatiles**

100 µm polydimethylsiloxane

23 gauge (OD = 0.63 mm) **093639-804-00**

24 gauge **093639-805-00**

**non-polar semivolatiles**

30 µm polydimethylsiloxane

23 gauge (OD = 0.63 mm) **093639-811-00**

24 gauge **093639-812-00**

**non-polar high molecular compounds**

7 µm polydimethylsiloxane

23 gauge (OD = 0.63 mm) **093639-823-00**

24 gauge **093639-824-00**

**volatiles, amines and nitroaromatic compounds**

65 µm polydimethylsiloxane/divinylbenzene on StableFlex fiber

23 gauge (OD = 0.63 mm) **093639-800-00**

24 gauge **093639-801-00**

**flavors**

50/30 µm divinylbenzene/carboxen/Polydimethylsiloxane on StableFlex fiber

23 gauge (OD = 0.63 mm) **093639-802-00**

24 gauge **093639-803-00**

**gases and low molecular compounds**

85µm carboxen/polydimethylsiloxane on StableFlex fiber

23 gauge (OD = 0.63 mm) **093639-808-00**

24 gauge **093639-809-00**

**polar volatiles**

60 µm PEG on StableFlex-Fiber

23 gauge (OD = 0.63 mm) **093639-810-00**

**MFX-SPME FFA Stableflex Assortment Kit**

23 gauge (OD = 0.63 mm), 4 fibers

50/30 µm DVB/Carboxen/PDMS coating

65 µm PDMS/DVB coating

85 µm Carboxen/PDMS coating

85 µm polyacrylate coating

23 gauge (OD = 0.63 mm) **093639-825-00**

Part No.

**MFx SPME FFA Assortment kit 1**

23 gauge (OD = 0.63 mm), 3 fibers

**volatiles and semivolatiles; consists of:**

- ≡ 85 µm polyacrylate coating
- ≡ 100 µm polydimethylsiloxane coating
- ≡ 7 µm polydimethylsiloxane coating

23 gauge (OD = 0.63 mm) **093639-826-00**



**MFx SPME FFA Assortment kit 2**

23 gauge (OD = 0.63 mm), 3 fibers

**volatile or polar organics in water; consists of:**

- ≡ 75 µm Carboxen/polydimethylsiloxane coating
- ≡ 65 µm polydimethylsiloxane/divinylbenzene coating
- ≡ 85 µm polyacrylate coating

23 gauge (OD = 0.63 mm) **093639-827-00**



**MFx SPME FFA Assortment kit 4**

23 gauge (OD = 0.63 mm), 3 fibers

**flavors and odors; consists of:**

- ≡ 100 µm polydimethylsiloxane coating
- ≡ 65 µm polydimethylsiloxane/divinylbenzene coating
- ≡ 75 µm Carboxen/polydimethylsiloxane coating

23 gauge (OD = 0.63 mm) **093639-828-00**



**MFx SPME FFA Assortment kit 5**

23 gauge (OD = 0.63 mm), 4 fibers

**flavors and odors; consists of:**

- ≡ 100 µm polydimethylsiloxane coating
- ≡ 65 µm polydimethylsiloxane/divinylbenzene coating
- ≡ 85 µm Carboxen/polydimethylsiloxane coating
- ≡ 50/30 µm Divinylbenzene/carboxen/polydimethylsiloxane coating

23 gauge (OD = 0.63 mm) **093639-829-00**



**Part No.**

**Sample loop**

SS Sample loop 1/16" for Cheminert injection valve



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

Sulfinert Sample loop 1/16" for Cheminert injection valve

100 µL	<b>093731-123-00</b>
500 µL	<b>093731-124-00</b>
1000 µL	<b>093731-125-00</b>

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



2 µL	<b>093731-158-00</b>
3 µL	<b>093731-265-00</b>
5 µL	<b>093731-157-00</b>
10 µL	<b>093731-156-00</b>
20 µL	<b>093731-155-00</b>
50 µL	<b>093731-184-00</b>

**Part No.**

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

## Conversion table for syringes/plungers/needles between previous syringe versions and the new TriStar syringes

old Part no.	new Part no.	page
009970-001-00	022003-000-00	7
009970-002-00	022003-050-00	7
009970-007-00	022003-800-00	7
009970-015-00	022000-001-00	6
009970-016-00	022000-053-00	6
009970-018-00	022000-200-00	6, 9
009970-019-00	022000-250-00	6, 9
009970-020-00	022000-300-00	6
009970-021-00	022000-000-00	6
009970-022-00	022000-051-00	6
009970-024-00	022000-050-00	6
009970-030-00	022000-400-00	6
009970-031-00	022000-401-00	6
009970-033-00	022000-600-00	6, 9
009970-034-00	022000-650-00	6
009970-040-00	022000-801-00	6
009970-041-00	022000-805-00	6
009970-042-00	022000-806-00	6
009970-043-00	022000-802-00	6
009970-048-00	022000-800-00	6
009970-051-00	022001-052-00	9
009970-052-00	022001-800-00	9
009970-057-00	022001-050-00	9
009970-058-00	022000-052-00	6

old Part no.	new Part no.	page
009970-061-00	022000-807-00	6
009970-065-00	022002-804-00	11
009970-070-00	022002-805-00	11
009970-072-00	022001-801-00	9
009970-080-00	022001-051-00	9
009980-046-00	022001-802-00	8
009980-052-00	022001-803-00	8
009980-053-00	022002-700-00	8,11
009980-054-00	022001-300-00	8
009980-055-00	022001-325-00	8
009980-061-00	022002-800-00	11
009980-062-00	022002-801-00	11
009980-063-00	022002-325-00	11
009980-064-00	022002-300-00	11
009980-065-00	022002-650-00	8, 11
009980-066-00	022002-802-00	11
009980-067-00	022002-803-00	11
009980-068-00	022001-326-00	8
009980-069-00	022001-301-00	8
009980-070-00	022002-701-00	8
009980-071-00	022002-651-00	8
009980-081-00	022002-806-00	11
	022000-550-00	6, 9
	022000-601-00	6

### 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.





**GERSTEL GmbH & Co. KG**

Eberhard-Gerstel-Platz 1  
45473 Mülheim an der Ruhr  
Germany

-  +49 (0) 208 - 7 65 03-0
-  +49 (0) 208 - 7 65 03 33
-  [gerstel@gerstel.com](mailto:gerstel@gerstel.com)
-  [www.gerstel.com](http://www.gerstel.com)

## GERSTEL Worldwide

**GERSTEL, Inc.**

701 Digital Drive, Suite J  
Linthicum, MD 21090  
USA

-  +1 (410) 247 5885
-  +1 (410) 247 5887
-  [sales@gerstelus.com](mailto:sales@gerstelus.com)
-  [www.gerstelus.com](http://www.gerstelus.com)

**GERSTEL AG**

Wassergrabe 27  
CH-6210 Sursee  
Switzerland

-  +41 (41) 9 21 97 23
-  +41 (41) 9 21 97 25
-  [swiss@ch.gerstel.com](mailto:swiss@ch.gerstel.com)
-  [www.gerstel.ch](http://www.gerstel.ch)

**GERSTEL K.K.**

1-3-1 Nakane, Meguro-ku  
Tokyo 152-0031  
SMBC Toritsudai Ekimae Bldg 4F  
Japan

-  +81 3 5731 5321
-  +81 3 5731 5322
-  [info@gerstel.co.jp](mailto:info@gerstel.co.jp)
-  [www.gerstel.co.jp](http://www.gerstel.co.jp)


**GERSTEL LLP**

10 Science Park Road  
#02-18 The Alpha  
Singapore 117684

-  +65 6779 0933
-  +65 6779 0938
-  [SEA@gerstel.com](mailto:SEA@gerstel.com)
-  [www.gerstel.com](http://www.gerstel.com)

**GERSTEL Brasil**

Av. Pascoal da Rocha Falcão, 367  
04785-000 São Paulo - SP Brasil

-  +55 (11)5665-8931
-  +55 (11)5666-9084
-  [gerstel-brasil@gerstel.com](mailto:gerstel-brasil@gerstel.com)
-  [www.gerstel.com.br](http://www.gerstel.com.br)

Information, descriptions and specifications in this Publication are subject to change without notice.

Ver. 2015/17/06

To download the latest version, please go to : [www.gerstel.com/en/supplies.htm](http://www.gerstel.com/en/supplies.htm)

GERSTEL, GRAPHPACK and TWISTER are registered trademark of GERSTEL GmbH & Co. KG

©Copyright by GERSTEL GmbH & Co.KG

Agilent is trademark of Agilent Technologies, Inc.; Carbotrap B and Carbotrap C are trademarks of Sigma-Aldrich Biotechnology L.P.; HP is trademark of Hewlett-Packard Development Company, L.P.; Kalrez® and Viton® are trademarks of Dupont Performance Elastomers; Teflon® is trademark of E. I. Du Pont de Nemours & Company; Tenax® TA is trademark of Buchem B.V.



Awarded for the active pursuit of environmental sustainability