

Supplies & Accessories

for Chromatography



Vials, Caps & Accessories
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PressFit Connector & Splitter
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Tubing (PEEK, Polymeric & SS)
GC Fittings & Unions
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For general information, technical support, customer service and to place an order:

Switzerland

BGB Analytik AG
Rohrmattstrasse 4
CH-4461 Boeckten
Phone +41 (0)61 991 00 46
Fax +41 (0)61 991 00 25
Email sales@bgb-analytik.com



Germany and EU

BGB Analytik Vertrieb GmbH
Mühlestraße 1
D-79539 Lörrach-Tumringen
Phone +49 (0) 7621 58 842 70
Fax +49 (0) 7621 58 842 89
Email sales.de@bgb-analytik.com

Belgium, Netherlands, Luxembourg

BGB Analytik Benelux B.V.
Drielandendreef 42-44
3845 CA Harderwijk / The Netherlands
Phone +31 (0)341 700 270
Fax +31 (0)341 700 271
Email sales.benelux@bgb-analytik.com

France

BGB Analytik France S.A.S.
81, Vie de l'Etraz
F-01630 Saint Jean de Gonville
Phone 04 50 48 85 67
Fax 04 50 56 23 78
Email sales.fr@bgb-analytik.com

Turkey

BGB Analytik Laboratuvar Malzemeleri Ticaret LTD.ŞTİ
Starport Residence, Yenişehir Mah. Osmanlı Bulvarı
Sümbül Sok. No:10, Daire: 193
34912 Kurtköy, Pendik, İstanbul
Phone +90 (216) 909 20 48
Email sales.tr@bgb-analytik.com

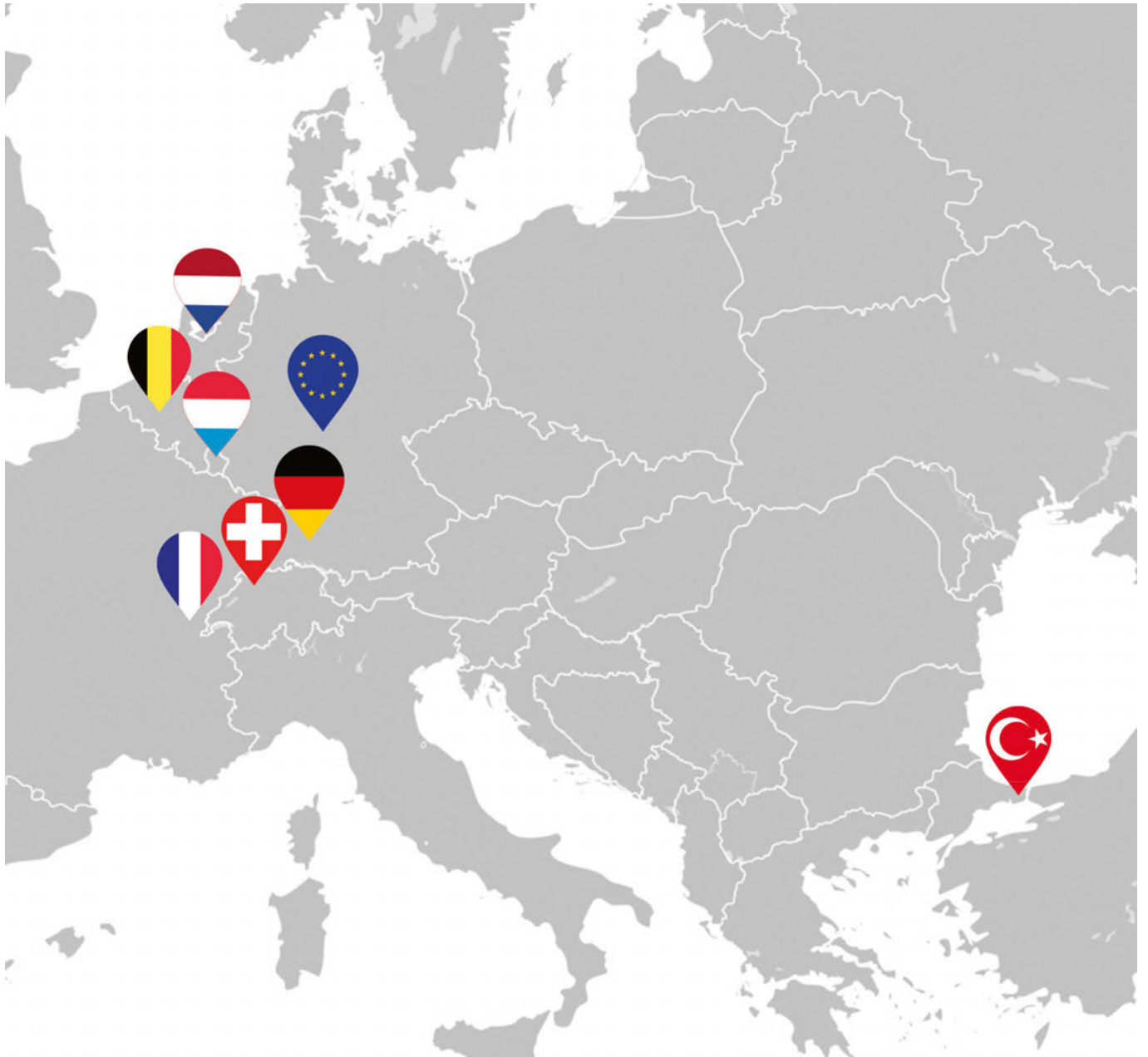
USA

BGB Analytik USA LLC
8407 F Richmond Hwy
Alexandria, VA 22309, USA
Phone +1-703-780-1500
Fax +1-703-991-9131
Email sales.usa@bgb-analytik.com



BGB Downloads
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Location and Facility



About BGB Analytik

The beginnings of BGB Analytik AG, Switzerland go back to 1992, when the company «Labor für Gaschromatographie» (Lab for Gas Chromatography) was founded in September with locations Rothenfluh and Adliswil in Switzerland. The first official agency was with Polymicro Technologies™ (USA). Chromatographic services and the production of PressFits have been two important mainstays from the start.

BGB Analytik AG emerged from the company «Labor für Gaschromatographie» in 1993. The name BGB is made up of the first letters of the first names of the three company founders Bernhard, Georg, and Beat. In the same year BGB Analytik Germany was founded. They become various partners and official agencies have been added over the years. Today BGB Analytik has more than 30 partners. BGB Analytik's constant growth prompted it to relocate the Swiss location from Rothenfluh to Anwil in 2000 and then in 2003 to the current location in Bökten, Switzerland. The Bökten location, has 17 employees, a storage area of approx. 1000 m2 and various office and seminar rooms.

BGB Analytik Germany emerged 2011 from a personal-name firm to BGB Analytik Vertrieb GmbH. The constant growth prompted it to relocate from Schlossböckelheim to Rheinfelden, Germany. 2019 an additional warehouse was opened in Lörrach, Germany. The locations in Lörrach and Rheinfelden have now 13 employees, a storage area of approx. 700 m2 and various office rooms. Further BGB Analytik companies were founded in France (2013), USA (2014), the Netherlands for BeNeLux (2016) and Turkey (2018).

In 2023 BGB Analytik Switzerland and Germany are celebrating their 30th anniversary. Able to rely on its many years of experience and the knowledge of its employees, BGB Analytik can offer its customers the best possible solution in the field of chromatography. BGB Analytik is proud to be able to provide independent advice. Not being tied to a specific device brand, they are able to find the best possible solution for their customers.



CHROMATOGRAPHY IS OUR BUSINESS

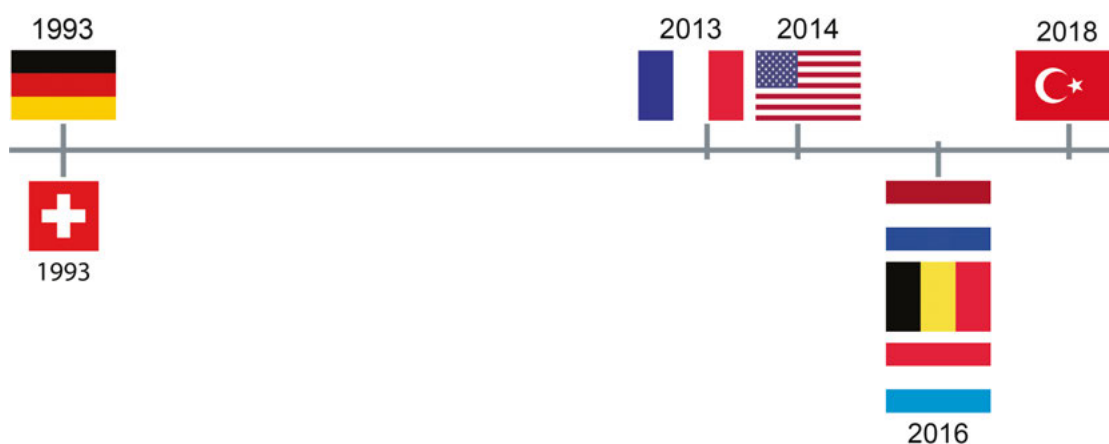


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Fused Silica Capillary Tubing of Polymicro

Polymicro Technologies offers 100 % synthetic fused silica tubing for a huge number of applications in GC, LC, CE and MS. Available are three coatings.



TSP Standard Polyimide Coating

- Operating temperature up to 350°C
- Mirror-smooth interior surfaces for stable flow of liquids and gases
- Low metal ion content provides an inert inner surface
- Offers excellent abrasion resistance during handling and usage
- Interfaces easily with existing fitting technologies



Part No.	ID (µm)	OD (µm)	Coating (µm)	Minimum Order (m)
TSP-002150	002 ± 1	150 ± 6	12	5
TSP-005150	005 ± 2	150 ± 6	12	5
TSP-005375	005 ± 2	363 ± 10	20	5
TSP-010150	010 ± 2	150 ± 6	12	5
TSP-010375	010 ± 2	363 ± 10	20	5
TSP-015150	015 ± 2	150 ± 6	12	5
TSP-015375	015 ± 2	363 ± 10	20	5
TSP-020090	020 ± 2	090 ± 6	12	5
TSP-020150	020 ± 2	150 ± 6	12	5
TSP-020375	020 ± 2	363 ± 10	20	5
TSP-025150	025 ± 2	150 ± 6	12	5
TSP-025375	025 ± 2	363 ± 10	20	5
TSP-030150	030 ± 2	150 ± 6	12	5
TSP-030375	030 ± 2	363 ± 10	20	5
TSP-040105	040 ± 3	105 ± 6	12	5
TSP-040150	040 ± 3	150 ± 6	12	5
TSP-040375	040 ± 3	363 ± 10	20	5
TSP-050150	050 ± 3	150 ± 6	12	5
TSP-050192	050 ± 3	186 ± 6	16	5
TSP-050375	050 ± 3	363 ± 10	20	5
TSP-075150	075 ± 3	150 ± 6	12	5
TSP-075200	075 ± 3	193 ± 7	12	5
TSP-075375	075 ± 3	363 ± 10	20	5
TSP-100170	100 ± 4	164 ± 6	12	5
TSP-100200	100 ± 4	193 ± 7	12	5
TSP-100245	100 ± 4	238 ± 7	16	5
TSP-100375	100 ± 4	363 ± 10	20	5
TSP-150375	150 ± 4	363 ± 10	20	5
TSP-180350	180 ± 6	360 ± 10	18	25
TSP-200350	200 ± 6	360 ± 10	18	25
TSP-250350	250 ± 6	360 ± 10	18	25
TSP-320450	320 ± 6	435 ± 10	18	25
TSP-530660	536 ± 6	665 ± 15	24	25
TSP-530700	530 ± 10	700 ± 20	24	25
TSP-700850	700 ± 10	850 ± 20	24	5

Quantity breaks available

TSP Standard Polyimide Coating with very small ID's (sub-1 µm)

Part No.	ID (nm)	OD (µm)	Coating (µm)	Length (m)
TSP000.2375NC	200 ± 100	363 ± 10	20	5
TSP000.6375NC	600 ± 100	363 ± 10	20	5
TSP001.0375NC	1000 ± 100	363 ± 10	20	5



Tubing Sleeves
see page 73

TSP Standard Polyimide Coating with Thick Wall

Part No.	ID (µm)	OD (µm)	Coating (µm)	Minimum Order (m)
TSP-150665	150 ± 6	665 ± 15	24	10
TSP-200665	200 ± 6	665 ± 15	24	10
TSP-250665	250 ± 6	665 ± 15	24	10
TSP-300665	300 ± 6	665 ± 15	24	10
TSP-450670	450 ± 6	673 ± 15	24	10

TSP Standard Polyimide Coating with 1/32" OD

Part No.	ID (µm)	OD (µm)	Coating (µm)	Minimum Order (m)
TSP-050794	50 ± 3	794 ± 12	24	10
TSP-075794	75 ± 3	794 ± 12	24	10
TSP-100794	100 ± 4	794 ± 12	24	10
TSP-200794	200 ± 6	794 ± 12	24	10
TSP-250794	250 ± 6	794 ± 12	24	10
TSP-300794	300 ± 6	794 ± 12	24	10
TSP-400794	400 ± 6	794 ± 12	24	10
TSP-500794	500 ± 6	794 ± 12	24	10

WWP Square Tubing with TSP Coating for CE

- Operating temperature up to 350°C

Part No.	ID (µm)	OD (µm)	Glass OD ¹⁾	Minimum Order (m)
WWP-050375	050 ± 5	363 ± 15	300	10
WWP-075375	075 ± 5	363 ± 15	300	10
WWP-100375	100 ± 5	363 ± 15	300	10



- Coating (Polyimide)
- Fused Silica
- Square ID

TSH UV-Transparent Coating

- Operating temperature up to 125°C

Part No.	ID (µm)	OD (µm)	Coating (µm)	Minimum Order (m)
TSH-050375	050 ± 3	363 ± 10	20	10
TSH-075375	075 ± 3	363 ± 10	20	10
TSH-100375	100 ± 3	363 ± 10	20	10

TSU UV Transparent Coating for CE

- Operating temperature up to 160°C

Part No.	ID (µm)	OD (µm)	Coating (µm)	Minimum Order (m)
TSU-050375	050 ± 3	363 ± 10	15	10
TSU-075375	075 ± 3	363 ± 10	15	10
TSU-100375	100 ± 4	363 ± 10	15	10

Quantity breaks available

¹⁾ Measured flat-to-flat

Cleaving Stone



BGB Cleaving Stone is made from hard ceramic, for cutting Fused Silica Capillary Tubing.

Part No.	Description	Qty.
CS	Cleaving Stone	pk. 10



PressFit Connector and Splitter

see page 10

Deactivated FS-Capillary Tubing



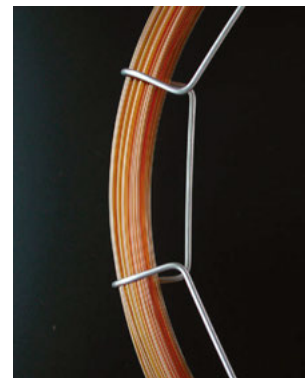
BGB offers three different types of Deactivated Tubing for many applications in gas chromatography, liquide chromatography, mass spectrometry and capillary electrophoresis. Best inertness shows the standard phenyl/methyl deactivation. This is the best choice for the most common solvents. For solvents with traces of water the OV-1701-OH deactivation should be used. This deactivation is more stable against water or water containing solvents, but is less inert than a phenyl/methyl or methyl deactivation.

Each tubing is tested with a Grob-Test for best inertness. In contrast to other manufacturers we do check the complete batch and not only some meters of the batch.

Phenyl/Methyl Deactivated FS-Tubing

- Operating temperature up to 350°C

Part No.	ID (µm)	OD (µm)	Length (m)
TSP-025375-D-10	025 ± 2	363 ± 10	10
TSP-050375-D-10	050 ± 3	363 ± 10	10
TSP-075375-D-10	075 ± 3	363 ± 10	10
TSP-100170-D-10	100 ± 4	164 ± 6	10
TSP-100200-D-10	100 ± 4	193 ± 7	10
TSP-100245-D-10	100 ± 4	238 ± 7	10
TSP-100375-D-10	100 ± 4	363 ± 10	10
TSP-150375-D-10	150 ± 4	363 ± 10	10
TSP-180350-D-10	180 ± 6	360 ± 10	10
TSP-200350-D-10	200 ± 6	360 ± 10	10
TSP-250350-D-10	250 ± 6	360 ± 10	10
TSP-320450-D-10	320 ± 6	435 ± 10	10
TSP-530660-D-10	536 ± 6	665 ± 15	10
TSP-530700-D-10	530 ± 10	700 ± 20	10



OV-1701-OH Deactivated FS-Tubing (water-resistant)

- Operating temperature up to 350°C

Part No.	ID (µm)	OD (µm)	Length (m)
TSP-025375-P-10	025 ± 2	363 ± 10	10
TSP-050375-P-10	050 ± 3	363 ± 10	10
TSP-075375-P-10	075 ± 3	363 ± 10	10
TSP-100375-P-10	100 ± 4	363 ± 10	10
TSP-250350-P-10	250 ± 6	360 ± 10	10
TSP-320450-P-10	320 ± 6	435 ± 10	10
TSP-530660-P-10	536 ± 6	665 ± 15	10
TSP-530700-P-10	530 ± 10	700 ± 20	10

Other dimensions available on request.

Cleaving Stone



BGB Cleaving Stone is made from hard ceramic, for cutting Fused Silica Capillary Tubing.

Part No.	Description	Qty.
CS	Cleaving Stone	pk.10

Methyl Deactivated FS-Tubing

- Operating temperature up to 350°C

Part No.	ID (µm)	OD (µm)	Length (m)
TSP-025375-M-10	025 ± 2	363 ± 10	10
TSP-050375-M-10	050 ± 3	363 ± 10	10
TSP-075375-M-10	075 ± 3	363 ± 10	10
TSP-100170-M-10	100 ± 4	164 ± 6	10
TSP-100200-M-10	100 ± 4	193 ± 7	10
TSP-100245-M-10	100 ± 4	238 ± 7	10
TSP-100375-M-10	100 ± 4	363 ± 10	10
TSP-150375-M-10	150 ± 4	363 ± 10	10
TSP-180350-M-10	180 ± 6	360 ± 10	10
TSP-200350-M-10	200 ± 6	360 ± 10	10
TSP-250350-M-10	250 ± 6	360 ± 10	10
TSP-320450-M-10	320 ± 6	435 ± 10	10
TSP-530660-M-10	536 ± 6	665 ± 15	10
TSP-530700-M-10	530 ± 10	700 ± 20	10

LVI-Gap for Large Volume Injection

The LVI-Gap is a phenyl/methyl deactivated FS Tubing of 15m x 0.53mm ID, with a thin film of a silicone on the last 3m. This tubing is optimized for large volume injections in gas chromatography. The compounds in the solvent will be trapped in the phase and separated from the solvent. After evaporating the solvent, the compounds can be transferred to the analytical column.

Part No.	Coating	Dimensions	OD (µm)
26060427	0.25 µm BGB-5	15 m x 0.53 mm	700 ±20
26060425	0.45 µm BGB-5	15 m x 0.53 mm	700 ±20



PressFit Connector and
Splitter

see page 10

BGB PressFit Connector and Splitter



PressFit-Connectors and -Splitters are made out of borosilicate glass to connect two or more capillary columns together. The seal of this connection type is the coating on the outside of the capillary tubing. This polyimide is soft and adhesive. Many applications in gas chromatography and mass spectrometry are possible.

- Couple a capillary column with a pre-column
- Couple capillary columns of different polarities
- Couple capillary columns for increasing length
- Repair a broken capillary column
- Split before and/or after the capillary column
- Switch between different capillary columns (multidimensional gas chromatography)

How it works

PressFit connectors form a leak-tight seal by using concentric compressive forces as the tubing end is pushed into a tightly controlled radial restriction. These forces are strong enough to form a leak-tight seal under the normal pressures used in capillary GC. The seal is further strengthened as an exterior polyimide resin coating on the column bonds to the inner surface of the connector after several thermal cycles at 200°C.

To obtain a good connection it is necessary to clean the end's of the tubing's with some solvent. Remove 1 cm of the tubing by making a cut with a ceramic scoring wafer into the polyimide surface and bend the tubing until it breaks. Examine the end with a pocket magnifier for a proper cut. A poorly cutted capillary column will produce an inadequate seal. Repeat this step if necessary. If the cut is smooth, the tubing can be pushed into the PressFit.

Our PressFit's are made out of borosilicate glass. For most of the applications a deactivated surface is not necessary, because of the short contact of the sample with the surface (<20ms). Nevertheless we recommend for critical compounds the use of deactivated PressFit's.

MS-Fit Connector and Splitter

The MS-Fit Connector and Splitter are the next generation of our PressFit products. The taper inside and the length are improved for a better sealing, also with the modern coatings used to make fused silica tubing. These hard coatings are very often the cause of leaks, which are typical seen in mass spectrometry.



PressFit Color Code*



Internal Diameter FS-Tubing	External Diameter FS-Tubing	Color
0.20 mm	0.29 - 0.36 mm	purple ●
0.25 mm	0.34 - 0.38 mm	red ●
0.32 mm	0.41 - 0.48 mm	black ●
0.53 mm	0.61 - 0.70 mm	blue ●

* The standard PressFit connector is optimized for a defined outer capillary diameter. Outer diameters of columns of different origin vary to some extent.

Defined PressFit Connector – Deactivated



Part No.	ID _A (mm)	ID _B (mm)	Qty.
2020LD	0.20	0.20	pk.25
2025LD	0.20	0.25	pk.25
2032LD	0.20	0.32	pk.25
2053LD	0.20	0.53	pk.25
2525LD	0.25	0.25	pk.25
2532LD	0.25	0.32	pk.25
2553LD	0.25	0.53	pk.25
3232LD	0.32	0.32	pk.25
3253LD	0.32	0.53	pk.25
5353LD	0.53	0.53	pk.25

Universal PressFit Connector – Deactivated



Part No.	External Diameter	Qty.
UNIAD	0.30 to 0.75 mm OD	pk.10
UNIBD	0.20 to 0.75 mm OD	pk.10

MS-Fit Connector and Splitter – Deactivated



Part No.	Type	External Diameter	Qty.
MS-FIT	Connector	0.30 to 0.50 mm	pk.10
MS-FIT3	3-way Splitter	0.30 to 0.50 mm	ea.
MS-FIT4-T	4-way T-Splitter	0.30 to 0.50 mm	ea.
MS-FIT4-X	4-way X-Splitter	0.30 to 0.50 mm	ea.



GC Liners
see page 14

Defined PressFit 3-way Splitter – Deactivated



Part No.	ID _A (mm) Inlet	ID _B (mm) Outlet 1	ID _C (mm) Outlet 2	Qty.
S202020D	0.20 ●	0.20 ●	0.20 ●	ea.
S252525D	0.25 ●	0.25 ●	0.25 ●	ea.
S323232D	0.32 ●	0.32 ●	0.32 ●	ea.
S535353D	0.53 ●	0.53 ●	0.53 ●	ea.

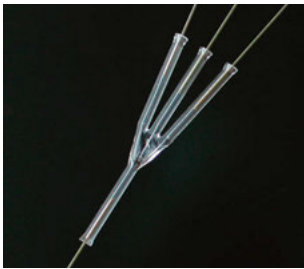
Other combinations:

S-AA-BB-CC-D	AA	BB	CC	ea.
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Universal PressFit 3-way Splitter – Deactivated

Part No.	External Diameter	Qty.
SUNI3AD	0.30 to 0.75mm OD	ea.
SUNI3BD	0.20 to 0.75mm OD	ea.

Defined PressFit 4-way Y-Splitter – Deactivated



Part No.	ID _A (mm) Inlet	ID _B (mm) Outlet 1	ID _C (mm) Outlet 2	ID _D (mm) Outlet 3	Qty.
S20202020TD	0.20 ●	0.20 ●	0.20 ●	0.20 ●	ea.
S25252525TD	0.25 ●	0.25 ●	0.25 ●	0.25 ●	ea.
S32323232TD	0.32 ●	0.32 ●	0.32 ●	0.32 ●	ea.
S53535353TD	0.53 ●	0.53 ●	0.53 ●	0.53 ●	ea.

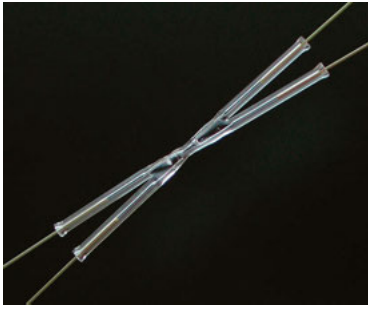
Other combinations:

S-AA-BB-CC-DD-TD	AA	BB	CC	DD	ea.
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Universal PressFit 4-way Y-Splitter – Deactivated

Part No.	External Diameter	Qty.
SUNI4TAD	0.30 to 0.75mm OD	ea.
SUNI4TBD	0.20 to 0.75mm OD	ea.

Defined PressFit 4-way X-Splitter – Deactivated



Part No.	ID _A (mm) Inlet	ID _B (mm) Inlet 2	ID _C (mm) Outlet 1	ID _D (mm) Outlet 2	Qty.
S20202020XD	0.20	0.20	0.20	0.20	ea.
S25252525XD	0.25	0.25	0.25	0.25	ea.
S32323232XD	0.32	0.32	0.32	0.32	ea.
S53535353XD	0.53	0.53	0.53	0.53	ea.

Other combinations:

S-AA-BB-CC-DD-XD	AA	BB	CC	DD	ea.
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Defined PressFit 4-way X-Splitter – Deactivated

Part No.	External Diameter	Qty.
SUNI4XAD	0.30 to 0.75mm OD	ea.
SUNI4XBD	0.20 to 0.75mm OD	ea.

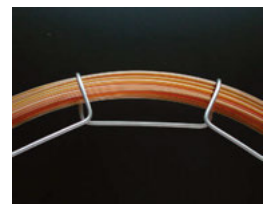
Custom made Connectors or Splitters are available on request.

Hexagon Key Set, 30 pieces (mm & inch)



Metric: 0.7; 0.9; 1.27; 1.5; 2.0; 2.5; 4.0; 4.5; 5.0; 5.5; 6.0; 7.0; 8.0; 10.0mm
 Inch: 0.028; 0.036; 0.05; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4; 5/16 and 3/8 inch
 Material: Chrome-Vanadium Steel

Part No.	Description	Qty.
IMBUS	Hexagon Key Set (mm & inch), Chrome Vanadium Steel	ea.



Fused Silica Tubing
see page 6

GC Liners

Deactivated Splitless Liners for Agilent Instruments



<--- column end this side



Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.

Splitless Liner 2.0mm ID, 6.5 x 78.5 mm
trace samples <2 µl
5181-8818, 5183-4703, 5183-4704

LS1104 **LS1104-5**
ea. pk.5

<--- column end this side



Splitless Liner, 4.0mm ID, 6.5 x 78.5 mm
trace samples >2 µl
210-3003, 210-3003-5

LS1105 **LS1105-5**
ea. pk.5

Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Splitless Liner with Wool, 4.0mm ID, 6.5 x 78.5 mm
trace samples >2 µl
-

LS1106 **LS1106-5**
ea. pk.5



Single Gooseneck Splitless Liner, 2.0mm ID, 6.5 x 78.5 mm
trace samples <2 µl
-

LS1103 **LS1103-5**
ea. pk.5

Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Single Gooseneck Splitless Liner, 4.0mm ID, 6.5 x 78.5 mm
trace samples >2 µl
5181-3316, 5183-4695, 5183-4696, 5190-2270

LS1100 **LS1100-5**
ea. pk.5



Single Gooseneck Splitless Liner w. Wool, 4.0mm ID, 6.5 x 78.5 mm
trace samples >2 µl
5062-3587, 5183-4693, 5183-4694, 5190-2271

LS1101 **LS1101-5**
ea. pk.5

Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Double Gooseneck Splitless Liner, 4.0mm ID, 6.5 x 78.5 mm
active, trace samples >2 µl
5181-3315, 5183-4705, 5183-4706, 5190-2272

LS1102 **LS1102-5**
ea. pk.5



Double Gooseneck Cyclo Splitless Liner, 2.0mm ID, 6.5 x 78.5 mm
active, dirty, trace samples <2 µl
-

LS1107 **LS1107-5**
ea. pk.5

Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Double Gooseneck Cyclo Splitless Liner, 4.0mm ID, 6.5 x 78.5 mm
active, dirty, trace samples >2 µl
-

LS1108 **LS1108-5**
ea. pk.5

Deactivated PTV Liners for Agilent Instruments

Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



PTV Liner, straight Glass, 2.0 mm ID, 3.0 x 71 mm
general use
5183-2036

LS1200 **LS1200-5**
ea. pk.5



PTV Liner, baffled Glass, 1.5 mm ID, 3.0 x 71 mm
active compounds, drugs, pesticides
5183-2037

LS1201 **LS1201-5**
ea. pk.5

Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



PTV Liner, with Wool, 2.0mm ID, 3.0 x 71 mm
large volume injections
5183-2038

LS1202 **LS1202-5**
ea. pk.5

Deactivated Split Liners for Agilent Instruments

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Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Split Liner with Wool, 4.0mm ID, 6.3 x 78.5 mm
universal
19251-60540, 5183-4691, 5183-4692

LS1000 **LS1000-5**
ea. pk.5

Description
Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Cyclosplitter Liner, 4.0mm ID, 6.3 x 78.5 mm
dirty samples
-

LS1002 **LS1002-5**
ea. pk.5

Description

Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Single Gooseneck Precision Split Liner with Wool,
4.0mm ID, 6.3 x 78.5 mm
dirty samples, trace samples
210-4022-5

LS1004 **LS1004-5**
ea. pk.5

Description

Benefits/Uses

Similar to Agilent #

Part No.
Qty.



Low Pressure Drop Split Liner with Wool,
4.0mm ID, 6.3 x 78.5 mm
universal
5183-4647, 5183-4701, 5183-4702, 5183-4711, 5183-4712, 5183-4713

LS1006 **LS1006-5**
ea. pk.5

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Cup Splitter Liner, 4.0mm ID, 6.3 x 78.5 mm
high & low MW compounds
18740-80190, 5183-4699, 5183-4700

LS1001 **LS1001-5**
ea. pk.5



Split Precision Liner with Wool, 4.0mm ID, 6.3 x 78.5 mm
dirty samples, trace samples
210-4004-5

LS1003 **LS1003-5**
ea. pk.5



Low Pressure Drop Single Gooseneck Precision Split Liner
with Wool, 4.0mm ID, 6.3 x 78.5 mm
universal
-

LS1005 **LS1005-5**
ea. pk.5



SPME Split Liner, 0.75 mm ID, 6.3 x 78.5 mm
ideal for low-volume, SPME applications
-

LS1007 **LS1007-5**
ea. pk.5

Inlet Seals, Capillary Column Nuts and MSD Source Nuts for Agilent Instruments

Description

Similar to Agilent #

Part No.
Qty.



Gold-plated Inlet Seal (incl. Washer), 0.8mm hole
18740-20885, 5188-5367 18740-20880

LS9000 **LS9000-5**
ea. pk.5



Stainless Steel Inlet Seal (incl. Washer), 0.8mm hole

LS9001 **LS9001-5**
ea. pk.5

Description

Similar to Agilent #

Part No.
Qty.



Capillary Column Nut, Stainless Steel,
for use with "Compact" Ferrules
5181-8830

LS9002 **LS9002-5**
ea. pk.5



Capillary Column Nut, Stainless Steel,
for use with Standard 1/16" Ferrules
05921-21170

LS9003 **LS9003-5**
ea. pk.5

Description

Similar to Agilent #

Part No.
Qty.



MSD Source Nut, Brass
05988-20066

LS9004 **LS9004-5**
ea. pk.5

Deactivated Liners for Bruker/Varian 1177 S/SL Injector

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Description
Benefits/Uses
Similar to Bruker/Varian #

Split Liner with Frit, 4.0 mm ID, 6.3 x 78.5 mm
universal

Part No.
Qty.

LS3000 **LS3000-5**
ea. pk.5

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Description
Benefits/Uses
Similar to Bruker/Varian #

Split Liner with Wool, 4.0 mm ID, 6.3 x 78.5 mm
universal
392611934

LS3001 **LS3001-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Split Precision Liner with Wool, 4.0 mm ID, 6.3 x 78.5 mm
dirty samples, trace samples

Part No.
Qty.

LS3002 **LS3002-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Single Gooseneck Splitless Liner, 4.0 mm ID, 6.5 x 78.5 mm
trace samples <2 µl
392611927

LS3003 **LS3003-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Single Gooseneck Splitless Liner with Wool,
4.0 mm ID, 6.5 x 78.5 mm
trace samples <2 µl
392611928

Part No.
Qty.

LS3004 **LS3004-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Double Gooseneck Splitless Liner, 4.0 mm ID, 6.5 x 78.5 mm
active, trace samples <2 µl
392611929

LS3005 **LS3005-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Low Pressure Drop Precision Liner with Wool,
2.0 mm ID, 6.3 x 78.5 mm
dirty samples, trace samples <2 µl
-

Part No.
Qty.

LS3006 **LS3006-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Splitless Liner with Wool, 2.0 mm ID, 6.5 x 78.5 mm
trace samples <2 µl
392599903

LS3007 **LS3007-5**
ea. pk.5

Deactivated Liners for Bruker/Varian SPI S/SL Injector



Description
Benefits/Uses
Similar to Bruker/Varian #

Liner 0.53 mm, 4.6 x 54 mm
high linearity for 0.25 & 0.32 mm ID columns
190010906

Part No.
Qty.

LS3200 **LS3200-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Liner 0.8 mm, 4.6 x 54 mm
high linearity for 0.53 mm ID columns
190010907

LS3201 **LS3201-5**
ea. pk.5

Capillary Nuts for Bruker/Varian Instruments



Description
Benefits/Uses
Similar to Bruker/Varian #

Capillary Nuts, Brass
03-949551-00, 394955100

Part No.
Qty.

LS9006 **LS9006-5**
ea. pk.5



Description
Benefits/Uses
Similar to Bruker/Varian #

Capillary Nuts, Stainless Steel
03-949551-00, 394955100

LS9007 **LS9007-5**
ea. pk.5

Deactivated Liners for Bruker/Varian 1078/1079 Injectors

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Description
Benefits/Uses

Similar to Bruker/Varian #

Split Liner with Frit, 3.4 mm ID, 5.0 x 54 mm
dirty samples, non-active compounds

392611946

Part No.

LS3100

LS3100-5

Qty.

ea.

pk.5

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Splitless Liner, 2 mm ID, 5.0 x 54 mm
trace samples <2 µl

392611947

LS3101

LS3101-5

ea.

pk.5



Description
Benefits/Uses

Similar to Bruker/Varian #

Open Liner, 0.5 mm ID, 5.0 x 54 mm
trace samples <1 µl

392611949

Part No.

LS3102

LS3102-5

Qty.

ea.

pk.5



Open Liner, 0.75 mm ID, 5.0 x 54 mm
trace, low volume samples

392611948

LS3103

LS3103-5

ea.

pk.5



Description
Benefits/Uses

Similar to Bruker/Varian #

Split Liner, without Frit, 3.4 mm ID, 5.0 x 54 mm
active samples

392611945

Part No.

LS3104

LS3104-5

Qty.

ea.

pk.5



Split Precision Liner with Wool, 3.4 mm ID, 5.0 x 54 mm
dirty samples, trace samples

-

LS3105

LS3105-5

ea.

pk.5



Autosampler & Manual Syringes
see page 91

Deactivated Split and Splitless Liners for Bruker/Varian 1075/1077 S/SL Injectors

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Split Liner, 1 mm ID, 6.3 x 72 mm
purge & trap inlet, splitting or samples <1 µl

Description
Benefits/Uses
Similar to Bruker/Varian #

Part No.
Qty.

LS3400 **LS3400-5**
ea. pk.5



Cup Splitter, 4 mm ID, 6.3 x 72 mm
high & low molecular weight compounds

Description
Benefits/Uses
Similar to Bruker/Varian #

Part No.
Qty.

LS3402 **LS3402-5**
ea. pk.5



Split Liner with Frit, 4 mm ID, 6.3 x 72 mm
dirty samples, non-active compounds
190010903

Description
Benefits/Uses
Similar to Bruker/Varian #

Part No.
Qty.

LS3404 **LS3404-5**
ea. pk.5



Splitless Liner, 2 mm ID, 6.3 x 74 mm
trace samples <2 µl
190010905

Description
Benefits/Uses
Similar to Bruker/Varian #

Part No.
Qty.

LS3300 **LS3300-5**
ea. pk.5



SPME Liner, 0.75 mm ID, 6.3 x 74 mm
ideal for low-volume SPME applications

Description
Benefits/Uses
Similar to Bruker/Varian #

Part No.
Qty.

LS3302 **LS3302-5**
ea. pk.5



Double Gooseneck Cyclo Splitless Liner, 4 mm ID, 6.3 x 74 mm
active samples, dirty samples, trace samples up to 4 µl

Description
Benefits/Uses
Similar to Bruker/Varian #

Part No.
Qty.

LS3304 **LS3304-5**
ea. pk.5

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Split Liner with Wool, 4 mm ID, 6.3 x 72 mm
universal
190010901

LS3401
ea.

LS3401-5
pk.5



Cyclo Splitter, 4 mm ID, 6.3 x 72 mm
dirty samples

LS3403
ea.

LS3403-5
pk.5



Split Precision Liner with Wool, 4 mm ID, 6.3 x 72 mm
active samples, dirty samples

LS3405
ea.

LS3405-5
pk.5



Splitless Liner, 4 mm ID, 6.3 x 74 mm
trace samples >2 µl

LS3301
ea.

LS3301-5
pk.5



Double Gooseneck Splitless Liner, 4 mm ID, 6.3 x 74 mm
active samples, trace samples up to 4 µl

LS3303
ea.

LS3303-5
pk.5

Capillary Nuts for Bruker/Varian Instruments



Capillary Nuts, Brass
03-949551-00, 394955100

Description
Similar to Bruker/Varian #

Part No.
Qty.

LS9006 **LS9006-5**
ea. pk.5









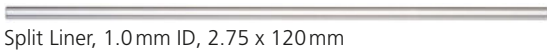
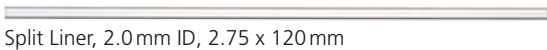
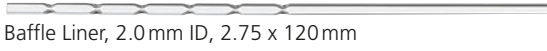


Capillary Nuts, Stainless Steel
03-949551-00, 394955100




LS9007
ea.


LS9007-5
pk.5

Deactivated Split and Splitless Liners for Thermo Scientific Instruments

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Description Benefits/Uses Similar to Thermo Scientific #	 Split Liner, 1.0 mm ID, 8.0 x 105 mm purge, trap & fast GC 45320075		 Split Liner, 3.0 mm ID, 8.0 x 105 mm universal 45320031
Part No. Qty.	LS2000 ea.	LS2000-5 pk.5	LS2001 ea.
			LS2001-5 pk.5
Description Benefits/Uses Similar to Thermo Scientific #	 Split Liner, 5.0 mm ID, 8.0 x 105 mm universal 45320030		 Split Precision Liner with Wool, 5.0 mm ID, 8.0 x 105 mm dirty samples, trace samples -
Part No. Qty.	LS2002 ea.	LS2002-5 pk.5	LS2003 ea.
			LS2003-5 pk.5
Description Benefits/Uses Similar to Thermo Scientific #	 Splitless Liner, 2.0 mm ID, 8.0 x 105 mm trace samples -		 Splitless Liner, 3.0 mm ID, 8.0 x 105 mm trace samples 45320032
Part No. Qty.	LS2103 ea.	LS2103-5 pk.5	LS2100 ea.
			LS2100-5 pk.5
Description Benefits/Uses Similar to Thermo Scientific #	 Splitless Liner, 5.0 mm ID, 8.0 x 105 mm trace samples 45320033		 Splitless Precision Liner with Wool, 5.0 mm ID, 8.0 x 105 mm dirty samples, trace samples -
Part No. Qty.	LS2101 ea.	LS2101-5 pk.5	LS2102 ea.
			LS2102-5 pk.5
Description Benefits/Uses Similar to Thermo Scientific #	 Split Liner, 1.0 mm ID, 2.75 x 120 mm trace samples, high recovery & linearity 45322054		 Split Liner, 2.0 mm ID, 2.75 x 120 mm universal 45322045
Part No. Qty.	LS2200 ea.	LS2200-5 pk.5	LS2201 ea.
			LS2201-5 pk.5
Description Benefits/Uses Similar to Thermo Scientific #	 Baffle Liner, 2.0 mm ID, 2.75 x 120 mm trace samples -		
Part No. Qty.	LS2202 ea.	LS2202-5 pk.5	

Inlet Sealing Ring, Fixing Nut and Cup Ferrules for Thermo Scientific Instruments

Description Similar to Thermo Scientific #	 Inlet Liner Ring for SSL Injector 29033406	 Inlet Liner Ring for PTV Injector 29013417	 Column Fixing Nut 35032423
Part No. Qty.	29033406 pk.2	29013417 pk.2	LS9005 ea.
			LS9005-5 pk.5

	Part No.	Description	Similar to Thermo Scientific #	Qty.
	29013488	0.38 mm ID Cup Ferrule for Thermo M4 nut	29053488	pk.10
	29013487	0.48 mm ID Cup Ferrule for Thermo M4 nut	29053487	pk.10
	29013486	0.8 mm ID Cup Ferrule for Thermo M4 nut	29053486	pk.10

GC Ferrules



Graphite Ferrules

- Upper temperature limit 450°C
- High-purity graphite – preferred for capillary GC use
- Ideal for glass-to-metal connections – doesn't stick to glass
- Precision formed – flash-free ID
- Reusable if not overtightened
- One-piece design requires no back ferrule



Standard 1/16"



Part No.	Description	Qty.
G1604	1/16" x 0.4mm ID	pk.10
G1625	1/16" x 0.5mm ID, 2-hole	pk.10
G1605	1/16" x 0.5mm ID	pk.10
G1608	1/16" x 0.8mm ID	pk.10
G1610	1/16" x 1.0mm ID	pk.10
G1612	1/16" x 1.2mm ID	pk.10
G1616	1/16" x 1/16" ID	pk.10
G1600	1/16", no-hole	pk.10

Standard 1/8"



Part No.	Description	Qty.
G1804	1/8" x 0.4mm ID	pk.10
G1805	1/8" x 0.5mm ID	pk.10
G1808	1/8" x 0.8mm ID	pk.10
G1812	1/8" x 1.2mm ID	pk.10
G1816	1/8" x 1/16" ID	pk.10
G1818	1/8" x 1/8" ID	pk.10
G1800	1/8", no-hole	pk.10

Standard 1/4"



Part No.	Description	Qty.
G1405	1/4" x 0.5mm ID	pk.10
G1408	1/4" x 0.8mm ID	pk.10
G1416	1/4" x 1/16" ID	pk.10
G1414	1/4" x 1/4" ID	pk.10
G1418	1/4" x 1/8" ID	pk.10
G1440	1/4" x 4.0mm ID	pk.10
G1460	1/4" x 6.0mm ID	pk.10
G1400	1/4", no-hole	pk.10

Standard 3/8", 1/2" and 3/4"



Part No.	Description	Qty.
G3838	3/8" x 3/8" ID	pk.10
G1212	1/2" x 1/2" ID	pk.5
G3434	3/4" x 3/4" ID	pk.5

Short Ferrules for Agilent



Part No.	Description	Qty.
G1604-HP	Short, 1/16" x 0.4mm ID	pk.10
G1605-HP	Short, 1/16" x 0.5mm ID	pk.10
G1608-HP	Short, 1/16" x 0.8mm ID	pk.10
G1610-HP	Short, 1/16" x 1.0mm ID	pk.10
G1612-HP	Short, 1/16" x 1.2mm ID	pk.10
G1418-HP	Short, 1/4" x 1/8" ID	pk.10
G1460-S	Short, 1/4" x 6.0mm ID	pk.10

Ferrules for Thermo / Carlo Erba



Part No.	Description	Qty.
G1805-CE	0.5mm ID for M8-Nut (CE-Taper)	pk.10
G1808-CE	0.8mm ID for M8-Nut (CE-Taper)	pk.10

Ferrules for Shimadzu



Part No.	Description	Qty.
GSH50	5mm ID	pk.10
GSH04	0.4mm ID for Shimadzu 17A, 2010 & 2014	pk.10
GSH05	0.5mm ID for Shimadzu 17A, 2010 & 2014	pk.10
GSH08	0.8mm ID for Shimadzu 17A, 2010 & 2014	pk.10

Cup Ferrules for Thermo / Carlo Erba



Part No.	Description	Qty.
29013489	0.28mm ID Cup Ferrule M4 nut	pk.10
29013488	0.38mm ID Cup Ferrule M4 nut	pk.10
29013487	0.48mm ID Cup Ferrule M4 nut	pk.10
29013486	0.80mm ID Cup Ferrule M4 nut	pk.10

Liner Seals and O-Rings

- Graphite and Fluoroelastomer Liner Seals

For Agilent Instruments



Part No.	Description	Qty.
GS635-HP	Graphite Liner Seal, 6.35 mm ID	pk.10
GS652-HP	Graphite Liner Seal, 6.52 mm ID	pk.10

For Perkin Elmer Instruments



Part No.	Description	Qty.
GSPE01	Graphite O-Ring	pk.10

For Varian 1078/1079



Part No.	Description	Qty.
GSBV01	Graphite Liner Ferrule	pk.10

For Shimadzu Instruments



Part No.	Description	Qty.
GSSH01	Graphite Liner Seal	pk.10



GSSH02	Graphite O-Ring, Split	pk.10
GSSH03	Graphite O-Ring, Splitless	pk.10

For Thermo Scientific Instruments



Part No.	Description	Qty.
29013417	Inlet Liner Ring for PTV Injector	pk.2



29033406	Inlet Liner Ring for SSL Injector	pk.2
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Graphite/Vespel® Ferrules

- Upper temperature limit 400 °C
- 40 % Graphite/60 % Vespel
- Made from quality DuPont Vespel/graphite blend
- Recommended for GC/MS interface applications
- One-piece design requires no back ferrule



Standard 1/16"



Part No.	Description	Qty.
GV1602	1/16" x 0.2 mm ID	pk.10
GV1603	1/16" x 0.3 mm ID	pk.10
GV1623	1/16" x 0.3 mm ID, 2-hole	pk.10
GV16234	1/16" x 0.3 & 0.4 mm ID, 2-hole	pk.10
GV16235	1/16" x 0.3 & 0.5 mm ID, 2-hole	pk.10
GV1633	1/16" x 0.3 mm ID, 3-hole	pk.10
GV1604	1/16" x 0.4 mm ID	pk.10
GV1624	1/16" x 0.4 mm ID, 2-hole	pk.10
GV16245	1/16" x 0.4 & 0.5 mm ID, 2-hole	pk.10
GV1634	1/16" x 0.4 mm ID, 3-hole	pk.10
GV1605	1/16" x 0.5 mm ID	pk.10
GV1625	1/16" x 0.5 mm ID, 2-hole	pk.10
GV1608	1/16" x 0.8 mm ID	pk.10
GV1609	1/16" x 0.9 mm ID	pk.10
GV1610	1/16" x 1.0 mm ID	pk.10
GV1616	1/16" x 1/16" ID	pk.10
GV1600	1/16", no-hole	pk.10

Standard 1/2"



Part No.	Description	Qty.
GV1212	1/2" x 1/2" ID	pk.5

Short Ferrules for Agilent



Part No.	Description	Qty.
GV1603-HP	Short, 1/16" x 0.3 mm ID	pk.10
GV1604-HP	Short, 1/16" x 0.4 mm ID	pk.10
GV1605-HP	Short, 1/16" x 0.5 mm ID	pk.10
GV1608-HP	Short, 1/16" x 0.8 mm ID	pk.10
GV1600-HP	Short, 1/16" ID – no hole	pk.10

Standard 1/8"



Part No.	Description	Qty.
GV1804	1/8" x 0.4 mm ID	pk.10
GV1825	1/8" x 0.5 mm ID, 2-hole	pk.10
GV1805	1/8" x 0.5 mm ID	pk.10
GV1828	1/8" x 0.8 mm ID, 2-hole	pk.10
GV1808	1/8" x 0.8 mm ID	pk.10
GV1816	1/8" x 1/16" ID	pk.10
GV1818	1/8" x 1/8" ID	pk.10
GV1800	1/8", no-hole	pk.10

Standard 1/4"



Part No.	Description	Qty.
GV1405	1/4" x 0.5 mm ID	pk.10
GV1408	1/4" x 0.8 mm ID	pk.10
GV1416	1/4" x 1/16" ID	pk.10
GV1414	1/4" x 1/4" ID	pk.10
GV1418	1/4" x 1/8" ID	pk.10
GV1460	1/4" x 6.0 mm ID	pk.10
GV1400	1/4", no-hole	pk.10

Ferrules for Carlo Erba

15% Graphite/85% Vespel, upper temperature limit 350 °C



Part No.	Description	Qty.
29033461	0.4 mm ID for M8-Nut (CE-Taper)	pk.10
29033460	0.5 mm ID for M8-Nut (CE-Taper)	pk.10
29033471	0.8 mm ID for M8-Nut (CE-Taper)	pk.10

Vespel® Ferrules



- Upper temperature limit 350°C
- 100 % high-temperature DuPont Vespel
- Precision-drilled ID – no imperfections from moulding
- One-piece design requires no back ferrule
- Fairly hard – tends to seal permanently to the column

Standard 1/16"



Part No.	Description	Qty.
V1603	1/16" x 0.3 mm ID	pk.10
V1624	1/16" x 0.4 mm ID, 2-hole	pk.10
V1604	1/16" x 0.4 mm ID	pk.10
V1625	1/16" x 0.5 mm ID, 2-hole	pk.10
V1605	1/16" x 0.5 mm ID	pk.10
V1608	1/16" x 0.8 mm ID	pk.10
V1610	1/16" x 1.0 mm ID	pk.10
V1612	1/16" x 1.2 mm ID	pk.10
V1616	1/16" x 1/16" ID	pk.10
V1600	1/16", no-hole	pk.10

Standard 1/8"



Part No.	Description	Qty.
V1804	1/8" x 0.4 mm ID	pk.10
V1825	1/8" x 0.5 mm ID, 2-hole	pk.10
V1805	1/8" x 0.5 mm ID	pk.10
V1828	1/8" x 0.8 mm ID, 2-hole	pk.10
V1808	1/8" x 0.8 mm ID	pk.10
V1816	1/8" x 1/16" ID	pk.10
V1818	1/8" x 1/8" ID	pk.10
V1800	1/8", no-hole	pk.10

Standard 1/4"



Part No.	Description	Qty.
V1416	1/4" x 1/16" ID	pk.10
V1414	1/4" x 1/4" ID	pk.10
V1418	1/4" x 1/8" ID	pk.10
V1400	1/4", no-hole	pk.10

Short Ferrules for Agilent



Part No.	Description	Qty.
V1604-HP	Short, 1/16" x 0.4 mm ID	pk.10
V1605-HP	Short, 1/16" x 0.5 mm ID	pk.10
V1608-HP	Short, 1/16" x 0.8 mm ID	pk.10

PTFE Ferrules



- Upper temperature limit 250°C
- 100 % PTFE – completely inert
- One-piece design requires no back ferrule

Standard 1/16"



Part No.	Description	Qty.
T1603	1/16" x 0.3 mm ID	pk.10
T1604	1/16" x 0.4 mm ID	pk.10
T1605	1/16" x 0.5 mm ID	pk.10
T1608	1/16" x 0.8 mm ID	pk.10
T1610	1/16" x 0.5 mm ID	pk.10
T1612	1/16" x 1.2 mm ID	pk.10
T1616	1/16" x 1/16" ID	pk.10
T1600	1/16", no-hole	pk.10

Standard 1/8"



Part No.	Description	Qty.
T1804	1/8" x 0.4 mm ID	pk.10
T1825	1/8" x 0.5 mm ID, 2-hole	pk.10
T1805	1/8" x 0.5 mm ID	pk.10
T1808	1/8" x 0.8 mm ID	pk.10
T1816	1/8" x 1/16" ID	pk.10
T1818	1/8" x 1/8" ID	pk.10
T1800	1/8", no-hole	pk.10

Standard 1/4"



Part No.	Description	Qty.
T1416	1/4" x 1/16" ID	pk.10
T1414	1/4" x 1/4" ID	pk.10
T1418	1/4" x 1/8" ID	pk.10
T14316	1/4" x 3/16" ID	pk.10
T1400	1/4", no-hole	pk.10

Standard 3/16"



Part No.	Description	Qty.
T316316	3/16" x 3/16" ID	pk.10

Septa for GC Injectors



- Center point guides the needle for easy penetration
- Reduce needle bending
- Precision molding assures accurate fit
- Available in selected sizes of our premium septa
- Packaged in glass vials for high purity

Premium Septa Advanced Green 3

The Advanced Green 3 Septum was specifically created to combine significantly longer injection life, low bleed and low injection port adhesion. The result is a green septum you can use for all your critical analysis. Septa are 3mm thick, except Shimadzu-style plug.



Part No.	Description	Qty.
SA5	5 mm CenterGuide	pk.50
SA9	9 mm CenterGuide	pk.50
SA95	9.5 mm (3/8")	pk.50
SA11	11 mm (7/16") CenterGuide	pk.50
SA11-100	11 mm (7/16") CenterGuide	pk.100
SA115	11.5 mm CenterGuide	pk.50
SA127	12.7 mm (1/2") CenterGuide	pk.50
SA17	17 mm	pk.50
SAS	for Shimadzu	pk.50

Premium Septa Marathon

The Marathon Septum typically achieves 400 injections without failure, when used with a rounded-tip (Agilent-style) needle and autosampler or needle guide. The CenterGuide versions of Marathon are pre-pierced to channel the needle through the same spot with each injection, which helps eliminate the common type of coring that occurs on the first injection. The Marathon septum is also ideal for standard manual-injection GC and GC/MS. Septa are 3mm thick, except Shimadzu-style plug septa.



Part No.	Description	Qty.
SM5-50	5 mm CenterGuide	pk.50
SM9-50	9 mm CenterGuide	pk.50
SM11-50	11 mm (7/16") CenterGuide	pk.50
SM11-100	11 mm (7/16") CenterGuide	pk.100
SM115-50	11.5 mm CenterGuide	pk.50
SM127-50	12.7 mm (1/2") CenterGuide	pk.50
SM17-50	17 mm	pk.50
SMS-50	for Shimadzu	pk.50

Premium Septa BTO

Septa BTO is bleed and temperature optimized for today's most demanding GC and GC/MS applications. Septa BTO is formulated to extend low-bleed and outstanding mechanical properties of premium GC septa to the highest-temperature applications (400 °C with most modern GCs).



Part No.	Description	Qty.
SB5	5 mm CenterGuide	pk.50
SB64	6.4 mm (1/4")	pk.50
SB9	9 mm CenterGuide	pk.50
SB95	9.5 mm (3/8")	pk.50
SB10	10 mm	pk.50
SB11	11 mm (7/16") CenterGuide	pk.50
SB11-100	11 mm (7/16") CenterGuide	pk.100
SB115	11.5 mm CenterGuide	pk.50
SB127	12.7 mm (1/2") CenterGuide	pk.50
SB17	17 mm CenterGuide	pk.50
SBS	for Shimadzu	pk.50

Premium Septa Silicone Pure

The Silicone Pure Septum was specifically created to combine significantly longer injection life, low bleed and low injection port adhesion. Usable to 340 °C inlet temperature.



Part No.	Description	Qty.
SS95	9.5 mm	pk.25
SS10	10 mm	pk.25
SS11	11 mm	pk.25
SS125	12.5 mm	pk.25
SS17	17 mm	pk.25
SSS	for Shimadzu	pk.25

BGB Electronic Leak Detector



Prevent small leaks from causing big problems with a BGB leak detector.

Features & Benefits include:

- Detects a broad range of gases.
- Audible tone and LED display indicate the severity of a leak.
- Can be operated during charging or used up to 12 hours between charges.
- Ergonomic, handheld design.
- Rugged side grips for added durability.
- Handy probe storage for cleanliness and convenience.
- Automatic shutoff.
- A convenient carrying and storage case.
- Easy-to-clean probe assembly.
- A universal charger set (CH, European, UK, U.S. and Australian plugs included).
- USB charging cable.
- Manual in German, English, French and Italian.



Accessories for BGB Electronic Leak Detector
www.bgb-shop.com/leak-detector-accessories

Part No.	Description	Qty.
33333-A	BGB Electronic Leak Detector	ea.

Leak Detector Specifications:

Detectable Gases:	Helium, Nitrogen, Argon, Carbon Dioxide, Hydrogen*	
Battery:	Rechargeable nickel-metal hydride (NiMH) battery (up to 12 hours normal operation)	
Ambient Temperature:	10–37 °C	
Humidity Range:	0–97 %	
Warranty:	One year	
Certifications:	CE (EU, Korea, Japan, Australia); UKCA; CSA/UL tested – not listed.	
Compliance:	WEEE, CEC, China RoHS 2	
Limits of Detection and Indicating LED Color:	Helium, 1.0×10^{-5} , red LED	Hydrogen*, 1.0×10^{-5} , red LED
	Nitrogen, 1.4×10^{-3} , yellow LED	Argon, 1.0×10^{-4} , yellow LED
	Carbon Dioxide, 1.0×10^{-4} , yellow LED	Gas detection limits measured in atm cc/sec.

Avoid using liquid leak detectors on a GC! Liquids can be drawn into the system and/or into the leak detector.

* CAUTION: This unit should only be used to detect trace amounts of hydrogen arising from a small leak in a nonflammable environment, e.g., laboratory room air, etc.

Vials and Accessories

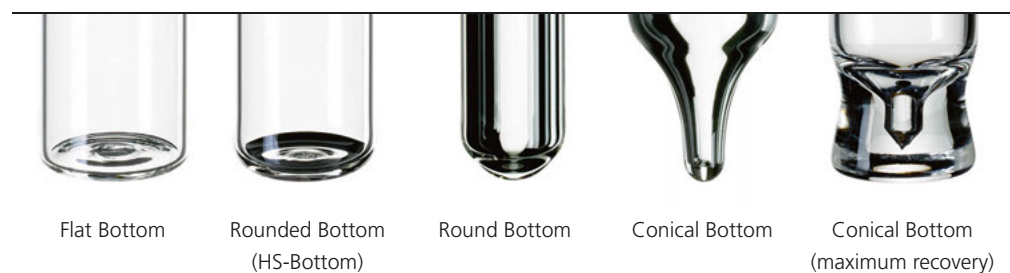


Technical Information

Design of the Neck



Design of the Bottom



BGB can only guarantee that our caps, vials and inserts will perfectly fit together. For combination with parts from other manufacturers we can not give any guaranty.

Durometer (expressed in ° shore)

Durometer is the hardness of a liner and is expressed in ° shore. The higher the grade the harder the liner; the lower the grade, the softer the liner. The softest liner is 45° shore A and the hardest 70° shore A. Besides the thickness of a liner the hardness is an essential indication when deciding which liner is suitable for the penetration of a certain type of needle (fragile needles, thin or thick needles, sharp or dull needles, etc.)











Silanized

Silanized vials are used to reduce the adsorption of polar compounds onto the normally polar surface of the glass container. Some compounds like amino-acids, proteins or phenols tend to react with the OH-groups of the glass, even if – as is common for chromatography – 1st hydrolytic class glass is used. Through the silanization process the glass surface is deactivated and so possible reactions between the polar compounds and the glass are eliminated.







ND8 Crimp Neck Vials

Borosilicate glass – 1st hydrolytic class



				 Best Seller	
Volume	0.7 ml	0.7 ml	0.6 ml	0.6 ml	0.4 ml
Dimension	40 x 7 mm	40 x 7 mm	40 x 7 mm	40 x 7 mm	30 x 7 mm
Glass Type	clear	amber	clear	amber	amber
Bottom	flat	flat	conical	conical	conical
Part No.	08040006	08040106	08040007	08040107	151142
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100
					
Volume	1.2 ml	1.2 ml	0.8 ml	0.2 ml	0.3 ml
Dimension	40 x 8.2 mm	40 x 8.2 mm	30 x 8.2 mm	31.5 x 5.5 mm	31.5 x 5.5 mm
Glass Type	amber	clear	clear	clear	clear
Bottom	flat	flat	flat	conical	round
Part No.	08040105	08040005	08040009	0800030	0800035
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

ND8 Aluminium Crimp Caps

	 60° shore A	 45° shore A	 45° shore A Best Seller	 45° shore A	 45° shore A	 53° shore A
Septa	Natural Rubber/TEF	Silicone Rubber/PTFE	Silicone/PTFE Ultra Clean	PTFE/Silicone/PTFE	Silicone/PTFE slitted	PTFE only
Part No.	080310-N	080310	080301	080302	080313	080304
Qty.	pk.1000	pk.1000	pk.100	pk.100	pk.100	pk.1000



BGB Crimper and Decapper
see page 48



ND11 Crimp Neck Vials

Borosilicate glass – 1st hydrolytic class



	 Best Seller		
Volume	1.5 ml	1.5 ml	1.5 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Glass Type	clear	clear	amber
Opening	wide	wide	wide
Miscellaneous	-	silanized	-
Part No.	11K	11KS	11B
Qty.	pk.100	pk.100	pk.100

			
Volume	1.5 ml	1.5 ml	1.5 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Glass Type	clear	amber	amber
Opening	wide	wide	wide
Labeling	label & filling lines	label & filling lines	label & filling lines
Miscellaneous	-	-	silanized
Part No.	11KW	11BW	11BWS
Qty.	pk.100	pk.100	pk.100

		 Best Seller Made in USA	 Made in USA
Volume	1.5 ml	0.3 ml	0.3 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Glass Type	clear	clear	amber
Opening	narrow (5.3 mm)	-	-
Labeling	-	label	label
Miscellaneous	-	integrated insert base bonded	integrated insert base bonded
Part No.	110400	110420	110421
Qty.	pk.100	pk.100	pk.100



PP Vial Rack
200 x 105 x 17 mm
for Standard 1.5 ml Vials up to 12 mm OD
50 Positions
-
-
VR12
pk.5




ND11 Crimp Neck – Crimp/Snap Vials

Borosilicate glass – 1st hydrolytic class, Polypropylene (PP) or Polymethylpentene (TPX)








					
Volume	1.1 ml	0.7 ml	0.3 ml	0.3 ml	0.3 ml
Neck	Crimp	Crimp/Snap	Crimp/Snap	Crimp/Snap	Crimp/Snap
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Type	clear glass	clear PP	clear PP	amber PP	clear TPX
Miscellaneous	conical bottom	-	integrated insert	integrated insert	integrated insert
Part No.	110411	PPCV1107K	PPCV1103K	PPCV1103B	TPXCV1103K
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

ND11 Aluminium Crimp Caps with Septa Natural Rubber/TEF, Thickness 1.0 mm

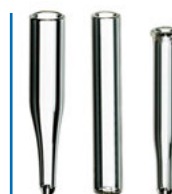
			
Color	silver	blue	yellow
Part No.	11031201	11031201-BN	11031201-YN
Qty.	pk.1000	pk.1000	pk.1000

ND11 Aluminium Crimp Caps with Septa Silicone Rubber/PTFE, Thickness 1.0 mm

					
Color	silver	blue	red	green	yellow
Part No.	11031201-S	11031201-B	11031201-R	11031201-G	11031201-Y
Qty.	pk.1000	pk.1000	pk.1000	pk.1000	pk.1000








BGB Crimper and Decapper
see page 48



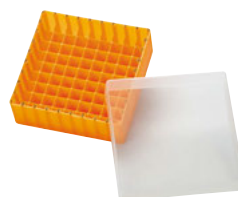
Glass Inserts for ND11 Vials
see page 31

ND11 Aluminium Crimp Caps with Septa Silicone/PTFE, Ultra Clean, Thickness 1.3 mm

					
Color	silver	blue	red	green	yellow
Part No.	11030101	11030101-B	11030101-R	11030101-G	11030101-Y
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

ND11 Aluminum or Magnetic Crimp Caps with different Septa

					
Material	Aluminum	Aluminum	Aluminum	Magnetic	Magnetic
Color	silver	silver	silver	yellow	yellow
Septa	PTFE/Silicone/PTFE	Silicone/PTFE X-slitted	PTFE only	Silicone/PTFE Ultra Clean	PTFE/Silicone/PTFE
Part No.	11030201	11031301-X	11030401	11030101-M	11030201-M
Qty.	pk.100	pk.100	pk.1000	pk.100	pk.100



Vial Racks and Storage Boxes
see page 51

BGB Easy Grip Manual Crimper and Decapper

Our Easy Grip Manual Crimper and Decapper for all 8, 11, 13 and 20mm crimp caps. The curved handle features comfortable use compared to metal grip designs. The bottom-pull handle allows for a steadier hold than top-push handles. The adjustment knob is positioned at the head of the crimper to simplify adjustment of the crimp intensity.



Part No.	Description	Qty.
295000	8 mm Crimper	ea.
295001	11 mm Crimper	ea.
295002	13 mm Crimper	ea.
295003	13 mm Crimper for Flip Off and Tear Off Caps	ea.
295004	20 mm Crimper	ea.
295005	20 mm Crimper for Flip Off and Tear Off Caps	ea.
295006	11 mm Decapper	ea.
295007	13 mm Decapper	ea.
295008	20 mm Decapper	ea.

Glass Inserts for ND11 Vials

Borosilicate glass – 1st hydrolytic class



for ND11 Wide Opening Vials

						
Volume	250 µl	250 µl	300 µl	350 µl	250 µl	250 µl
Dimension	31 x 6 mm	31 x 6 mm	31 x 6 mm	31 x 6 mm	29 x 5.7 mm	29 x 5.7 mm
Bottom	Conical	Conical	Conical	Flat	Conical with Plastic Spring	Conical with Plastic Spring
Miscellaneous	Tip: 15 mm	Tip: 15 mm silanized	Tip: 12 mm	-		silanized
Part No.	110503	110503-S	110502	110506	110507	110507-S
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

for ND11 Narrow Opening Vials

						
Volume	150 µl	200 µl	260 µl	150 µl	110 µl	Metal Spring
Dimension	31 x 5 mm	31 x 5 mm	31 x 5 mm	29 x 5 mm	27.5 x 4 mm	36 x 5 mm
Bottom	Conical	Conical	Flat	Conical with Plastic Spring	Conical	-
Miscellaneous	Tip: 15 mm	Tip: 9 mm	-		requires Spring 150614	for Insert 110504
Part No.	110500	110501	110505	110508	110504	150614
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

BGB Electronic Crimper and Decapper Model 6

Our new Electronic Crimpers and Decappers with enhanced OLED screen displays fit on standard laboratory vials and seals with aluminum or two-part aluminum/steel caps. The electronically adjustable cycle is accurate and reproducible and can be adjusted on the display of the unit. The tools are ergonomically designed to reduce strain and arm injury associated with many manual crimping tools.



Part No.	Description	Qty.
297040	8 mm Crimper Model 6	ea.
297041	11 mm Crimper Model 6	ea.
297042	13 mm Crimper Model 6	ea.
297043	13 mm Crimper Model 6 for Flip Off and Tear Off Caps	ea.
297044	20 mm Crimper Model 6	ea.
297045	20 mm Crimper Model 6 for Flip Off and Tear Off Caps	ea.
297046	11 mm Decapper Model 6	ea.
297047	13 mm Decapper Model 6	ea.
297048	20 mm Decapper Model 6	ea.

ND11 Crimp/Snap Vials

Borosilicate glass – 1st hydrolytic class



Can be used with Crimp and Snap Caps

Volume
Dimension
Glass Type
Opening
Labeling
Miscellaneous
Part No.
Qty.



1.5 ml
32 x 11.6 mm
clear
wide
-
-
11SR
pk.100



1.5 ml
32 x 11.6 mm
clear
wide
-
silanized
11SRS
pk.100



1.5 ml
32 x 11.6 mm
clear
wide
label & filling lines
-
11SRW
pk.100



Best Seller

Volume
Dimension
Glass Type
Opening
Labeling
Miscellaneous

1.5 ml
32 x 11.6 mm
amber
wide
label & filling lines
-

Part No.
Qty.

11SRBW
pk.100



1.5 ml
32 x 11.6 mm
amber
wide
label & filling lines
silanized

11SRBWS
pk.100



0.3 ml
32 x 11.6 mm
clear
-
-
integrated insert
base bonded

11KI
pk.100



0.3 ml
32 x 11.6 mm
amber
-
-
integrated insert
base bonded

11BI
pk.100



0.9 ml
32 x 11.6 mm
clear
wide
-
total Microliter

11K-ML
pk.100

ND11 Crimp/Snap Vials

PP (Polypropylene) or TPX (Polymethylpentene)

Volume
Dimension
Type
Miscellaneous



0.7 ml
32 x 11.6 mm
clear PP
-
PPCV1107K
pk.100



0.3 ml
32 x 11.6 mm
clear PP
integrated insert
PPCV1103K
pk.100



0.3 ml
32 x 11.6 mm
amber PP
integrated insert
PPCV1103B
pk.100








0.3 ml
32 x 11.6 mm
clear TPX
integrated insert
TPXCV1103K
pk.100








0.2 ml
32 x 11.6 mm
clear TPX
integrated glass insert
TPXCV1102
pk.100

ND11 PE Snap Ring Caps with Septa Natural Rubber/TEF, Thickness 1.0 mm

					
Color	transparent	blue	red	green	yellow
Part No.	SRC300-TN	SRC300-BN	SRC300-RN	SRC300-GN	SRC300-YN
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100




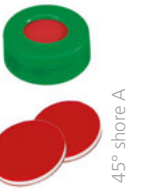

ND11 PE Snap Ring Caps with Septa Silicone/PTFE, Ultra Clean Thickness 1.3 mm

					
Color	transparent	blue	red	green	yellow
Part No.	SRC301-T	SRC301-B	SRC301-R	SRC301-G	SRC301-Y
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

ND11 PE Snap Ring Caps with X-slitted Septa Silicone/PTFE, Thickness 1.0 mm

				
Color	transparent	blue	red	green
Part No.	SRC313-T	SRC313-B	SRC313-R	SRC313-G
Qty.	pk.100	pk.100	pk.100	pk.100

ND11 PE Snap Ring Caps with Septa PTFE/Silicone/PTFE, Thickness 1.0 mm

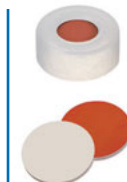

					
Color	transparent	blue	red	green	yellow
Part No.	SRC302-T	SRC302-B	SRC302-R	SRC302-G	SRC302-Y
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

Continued on page 34.



Vial Racks and Storage Boxes
see page 51

ND11 PE Snap Ring Caps with Septa Silicone Rubber/PTFE, Thickness 1.0mm

		
Color	transparent	blue
Part No.	SRC300-T	SRC300-B
Qty.	pk.100	pk.100

Glass Inserts for ND11 Snap Ring Vials

Borosilicate glass - 1st hydrolytic class



						
Volume	250 µl	250 µl	300 µl	350 µl	250 µl	250 µl
Dimension	31 x 6 mm	31 x 6 mm	31 x 6 mm	31 x 6 mm	29 x 5.7 mm	29 x 5.7 mm
Bottom	Conical	Conical	Conical	Flat	Conical with Plastic Spring	Conical with Plastic Spring
Miscellaneous	Tip: 15 mm	Tip: 15 mm silanized	Tip: 12 mm			
Part No.	110503	110503-S	110502	110506	110507	110507-S
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100



ND8 (8-425) Screw Neck Vials

Borosilicate glass – 1st hydrolytic class





				
Volume	1.5 ml	1.5 ml	1.5 ml	1.5 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Glass Type	clear	clear	amber	clear
Opening	narrow	narrow	narrow	narrow
Labeling	-	-	-	label & filling lines
Miscellaneous	-	silanized	-	-
Part No.	080400	080400-S	080401	080400-W
Qty.	pk.100	pk.100	pk.100	pk.100

			
Volume	1.5 ml	1.5 ml	1.1 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Glass Type	amber	amber	clear
Opening	narrow	narrow	narrow
Labeling	label & filling lines	label & filling lines	-
Miscellaneous	-	silanized	conical bottom
Part No.	080401-W	080401-WS	080410
Qty.	pk.100	pk.100	pk.100



Glass Inserts for ND8 (8-425) Screw Neck Vials

Borosilicate glass – 1st hydrolytic class

						
Volume	150 µl	200 µl	260 µl	150 µl	110 µl	Metal Spring
Dimension	31 x 5 mm	31 x 5 mm	31 x 5 mm	29 x 5 mm	27.5 x 4 mm	36 x 5 mm
Bottom	Conical	Conical	Flat	Conical	Conical	-
Miscellaneous	Tip: 15 mm	Tip: 9 mm	-	with Plastic Spring	requires Spring 150614	for Insert 110504
Part No.	110500	110501	110505	110508	110504	150614
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

ND8 (8-425) PP Screw Caps, 5.5 mm Center Hole with Septa

Color	black	black	black	black	black
Septa	Natural Rubber/TEF	Silicone Rubber/PTFE	Silicone/PTFE Ultra Clean	PTFE/Silicone/PTFE	Silicone/PTFE slitted
Part No.	070300	070300-SR	070301	070302	070313
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

ND8 (8-425) PP Screw Caps Center Hole and Closed Top without Septa

Color	black	white	black	white
Hole	5.5mm	5.5mm	without hole	without hole
Part No.	080800	080800-W	080801	080801-W
Qty.	pk.1000	pk.1000	pk.1000	pk.1000

Septa for ND8 (8-425) Screw Caps

Material	Natural Rubber/TEF	Silicone Rubber/PTFE	Silicone/PTFE (white/blue)	Silicone/PTFE (white/red)	PTFE/Silicone/PTFE	Silicone/PTFE slitted	PTFE only
Thickness	1.3 mm	1.0 mm	1.1 mm	1.5 mm	1.0 mm	0.9 mm	0.25 mm thick
Part No.	080200	080200-SR	080201	080201-R	080202	080213	080204
Qty.	pk.1000	pk.1000	pk.100	pk.100	pk.100	pk.100	pk.1000



Vial Racks and Storage Boxes
see page 51

ND9 (9-425) Short Neck Screw Vials

Borosilicate glass – 1st hydrolytic class



Volume	1.5 ml	1.5 ml	1.5 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Glass Type	clear	clear	amber
Opening	wide	wide	wide
Miscellaneous	-	silanized	-
Part No.	080400-XL	080400-XLS	080401-XL
Qty.	pk.100	pk.100	pk.100

Volume	1.5 ml	1.5 ml	1.5 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Glass Type	clear	amber	amber
Opening	wide	wide	wide
Labeling	label and filling lines	label and filling lines	label and filling lines
Miscellaneous	-	-	silanized
Part No.	080400-XLW	080401-XLW	080401-XLWS
Qty.	pk.100	pk.100	pk.100

Volume	0.3 ml	0.3 ml	0.7 ml	0.3 ml	0.3 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm	32 x 11.6 mm
Type	clear glass	amber glass	clear PP *	clear PP	clear TPX
Labeling	label	label	-	-	-
Miscellaneous	integrated insert base bonded	integrated insert base bonded	-	integrated insert	integrated insert
Part No.	080420	080421	PPSV0907K	PPSV0903K	TPXSV0903K
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

* for Ion Chromatography

Inserts and Caps for ND9 Short Neck Screw Vials
see page 38 – 39

Glass Inserts for ND9 (9-425) Short Neck Screw Vials

Borosilicate glass – 1st hydrolytic class



Volume	250 µl	250 µl	300 µl	350 µl	250 µl	250 µl
Dimension	31 x 6 mm	31 x 6 mm	31 x 6 mm	31 x 6 mm	29 x 5.7 mm	29 x 5.7 mm
Bottom	Conical	Conical	Conical	Flat	Conical	Conical
Miscellaneous	Tip: 15 mm	Tip: 15 mm silanized	Tip: 12 mm	-	with Plastic Spring	with Plastic Spring silanized
Part No.	110503	110503-S	110502	110506	110507	110507-S
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

ND9 (9-425) PP Short Thread Screw Caps, 6 mm Center Hole with Septa Natural Rubber/TEF, Thickness 1.0 mm

Color	black	blue	red	green	yellow	transparent
Part No.	090300-N	090300-BN	090300-RN	090300-GN	090300-YN	090300-TN
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100



ND9 (9-425) PP Short Thread Screw Caps, 6 mm Center Hole with Septa Silicone Rubber/PTFE, Thickness 1.0 mm

Color	black	blue	red	green	yellow	transparent
Part No.	090300	090300-B	090300-R	090300-G	090300-Y	090300-T
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

ND9 (9-425) PP Short Thread Screw Caps, 6 mm Center Hole with Septa Silicone/PTFE, Ultra Clean, Thickness 1.0 mm

Color	black	blue	red	green	yellow	transparent
Part No.	090301	090301-B	090301-R	090301-G	090301-Y	090301-T
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100




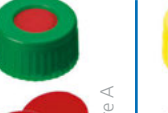


ND9 (9-425) PP Short Thread Screw Caps, 6 mm Center Hole with Septa Silicone/PTFE, Ultra Clean, Thickness 1.0 mm

		
Color	orange	grey
Part No.	090301-BO	090301-BG
Qty.	pk.100	pk.100







ND9 (9-425) PP Short Thread Screw Caps, 6 mm Center Hole with slitted Septa Silicone/PTFE, Thickness 1.0 mm

						
Color	black	blue	red	green	yellow	transparent
Part No.	090313	090313-B	090313-R	090313-G	090313-Y	090313-T
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

ND9 (9-425) PP Short Thread Screw Caps, 6 mm Center Hole with Septa PTFE/Silicone/PTFE, Thickness 1.0 mm

						
Color	black	blue	red	green	yellow	transparent
Part No.	090302	090302-B	090302-R	090302-G	090302-Y	090302-T
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

ND9 (9-425) PP Short Thread Screw Caps, 6 mm Center Hole with Septa PTFE only, Thickness 0.2 mm

						
Color	black	blue	red	green	yellow	transparent
Part No.	090304	090304-B	090304-R	090304-G	090304-Y	090304-T
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100



Vial Racks and Storage Boxes
see page 51

ND13 (13-425) Screw Vials

Borosilicate glass – 1st hydrolytic class



Volume
Dimension
Glass Type
Labeling

4 ml
45 x 14.7 mm
clear
-

4 ml
45 x 14.7 mm
amber
-

4 ml
45 x 14.7 mm
clear
label and filling lines

4 ml
45 x 14.7 mm
amber
label and filling lines

Part No.
Qty.

130400
pk.100

130401
pk.100

130400-W
pk.100

130401-W
pk.100



Volume
Dimension
Type
Miscellaneous

Glass Insert 0.3 ml
40 x 6 mm
Tip 15 mm
requires Spring 150715



Metal Spring
50 x 7.5 mm
-
for Insert 150714

Part No.
Qty.

150714
pk.100

150715
pk.100



PP Vial Rack
for Standard 4 ml Vials
(230 x 117 x 28mm)
50 Positions

VR15
pk.5



Storagebox
for 15 mm OD Vials
(130 x 130 x 52 mm)
49 Positions

PPSB15-R
ea.



More Vial Racks and Storage Boxes
see page 51






ND13 (13-425) PP Screw Caps, 8.5 mm Center Hole with Septa

				
Color	black	black	black	black
Septa	Natural Rubber/TEF	Silicone/PTFE	PTFE/Silicone/PTFE	cross-slitted Silicone/PTFE
Thickness	1.3 mm	1.5 mm	1.0 mm	1.5 mm
Part No.	120300	120301	120302	120313
Qty.	pk.100	pk.100	pk.100	pk.100

ND13 (13-425) PP Screw Caps, 8.5 mm Center Hole and Closed Top without Septa

				
Color	black	black	white	white
Hole	8.5 mm	without hole	8.5 mm	without hole
Part No.	130800	130801	130800-W	130801-W
Qty.	pk.1000	pk.1000	pk.1000	pk.1000

Septa for ND13 (13-425) Screw Caps

					
Material	Natural Rubber/TEF	Silicone/PTFE	PTFE/Silicone/PTFE	Silicone/PTFE	PTFE only
Thickness	1.3 mm	1.5 mm	1.0 mm	1.5 mm	0.25 mm
Part No.	120200	120201	120202	120213	120204
Qty.	pk.1000	pk.1000	pk.1000	pk.1000	pk.1000

ND18 Headspace Screw Vials

Borosilicate glass – 1st hydrolytic class



for CTC-Autosamplers







				
				
Volume	20 ml	20 ml	10 ml	10 ml
Dimension	75.5 x 22.5 mm	75.5 x 22.5 mm	46 x 22.5 mm	46 x 22.5 mm
Glass Type	clear	amber	clear	amber
Bottom	rounded	rounded	rounded	rounded
Part No.	180420	180420-B	180410	180410-B
Qty.	pk.100	pk.100	pk.100	pk.100

ND20 Headspace Crimp Vials

Borosilicate glass – 1st hydrolytic class

for CTC-Autosamplers

					
					
Volume	20 ml	20 ml	10 ml	10 ml	20 ml SPME
Dimension	75.5 x 22.5 mm	75.5 x 22.5 mm	46 x 22.5 mm	46 x 22.5 mm	75.5 x 22.5 mm
Glass Type	clear	amber	clear	amber	clear
Bottom	rounded	rounded	rounded	rounded	rounded
Miscellaneous	-	-	-	-	with special crimp neck
Part No.	200420-CTC	200420-CTC-B	200410-CTC	200410-CTC-B	200420-CTC-SPME
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

						
Volume	20 ml	10 ml	20 ml	20 ml	20 ml	5 ml
Dimension	75.5 x 22.5 mm	46 x 22.5 mm	75.5 x 23 mm	75.5 x 23 mm	75.5 x 23 mm	38.2 x 22 mm
Glass Type	clear	clear	clear	clear	amber	clear
Bottom	flat	flat	rounded	rounded	rounded	rounded
Labeling	-	-	-	with label and filling lines	-	-
Miscellaneous	with long DIN crimp neck	with long DIN crimp neck	-	-	-	-
Part No.	200420-FF	200410-FF	200420	200421	200420-B	200406
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

ND18 Magnetic Screw Caps, 8 mm Center Hole with Septa

						
Septa	Butyl/PTFE	Silicone/PTFE (blue/white)	Silicone/PTFE (white/blue)	Silicone/PTFE (white/red)	Silicone/Aluminum (white/alu)	Silicone/PTFE Ultra High Temperature
Thickness	1.6 mm	1.3 mm	1.5 mm	1.3 mm	1.3 mm	3.0 mm
Part No.	180300	180301	180305	180306	180307	180308
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

ND20 Aluminium Crimp Caps, 10 mm Center Hole with Septa

					
Septa	Butyl	Butyl/PTFE	«Parma-Fix»	Silicone/PTFE	Silicone/Aluminum
Part No.	20030000	20030100	20030300	20030500	20030700
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100



ND20 Magnetic Crimp Caps, 5 mm Center Hole with Septa

					
Septa	Butyl	Butyl/PTFE	«Parma-Fix»	Silicone/PTFE	Silicone/Aluminum
Part No.	20030004	20030104	20030304	20030504	20030704
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

ND20 Magnetic Crimp Caps, 8 mm Center Hole with Septa

						
Septa	Butyl Septa	Butyl/PTFE Septa	«Parma Fix» Septa	Silicone/PTFE Septa	Butyl/PTFE Septa	Silicone/PTFE Septa
Part No.	20030004-SPME	20030104-SPME	20030304-SPME	20030504-SPME	20030104-BIR	20030504-BIR
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100







Magnetic Caps with Silicone/PTFE SPME MicroCenter Septa

		
Description	ND18 Magnetic Screw Cap	ND20 Magnetic Crimp Cap
Septa	Silicone/PTFE SPME MicroCenter Septa	Silicone/PTFE SPME MicroCenter Septa
Part No.	180315	20031504-SPME
Qty.	pk.100	pk.100

Shell Vials


Borosilicate glass – 1st hydrolytic class




						
Volume	1 ml	1 ml	2 ml	2 ml	4 ml	4 ml
Dimension	40 x 8.2 mm	40 x 8.2 mm	31.5 x 11.6 mm	31.5 x 11.6 mm	44.6 x 14.65 mm	44.6 x 14.65 mm
Glass Type	clear	amber	clear	amber	clear	amber
Miscellaneous	PE Plug	PE Plug	PE Plug	PE Plug	PE Plug	PE Plug
Part No.	SV1ML	SV1MLB	SV2ML	SV2MLB	SV4ML	SV4MLB
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

Sample Storage Screw Vials and EPA Sample Storage Screw Vials

Borosilicate glass – 1st hydrolytic class

						
Volume	1.5 ml	1.5 ml	4 ml	4 ml	8 ml	8 ml
Dimension	32 x 11.6 mm	32 x 11.6 mm	45 x 14.7 mm	45 x 14.7 mm	61 x 16.6 mm	61 x 16.6 mm
Glass Type	clear	amber	clear	amber	clear	amber
Thread	8-425	8-425	13-425	13-425	15-425	15-425
Part No.	SF2	SF2-B	SF4	SF4-B	SF8	SF8-B
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

						
Volume	12 ml	12 ml	16 ml	20 ml	20 ml EPA	20 ml EPA
Dimension	66 x 18.5 mm	66 x 18.5 mm	71 x 20.6 mm	86 x 22.5 mm	57 x 27.5 mm	57 x 27.5 mm
Glass Type	clear	amber	clear	clear	clear	amber
Thread	15-425	15-425	18-400	20-400	24-400	24-400
Part No.	SF12	SF12-B	SF16	SF20	EPA20	EPA20-B
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

EPA Sample Storage Screw Vials

Borosilicate glass – 1st hydrolytic class



Volume	30 ml EPA	30 ml EPA	40 ml EPA	40 ml EPA	60 ml EPA	60 ml EPA
Dimension	72.5 x 27.5 mm	72.5 x 27.5 mm	95 x 27.5 mm	95 x 27.5 mm	140 x 27.5 mm	140 x 27.5 mm
Glass Type	clear	amber	clear	amber	clear	amber
Thread	24-400	24-400	24-400	24-400	24-400	24-400
Part No.	EPA30	EPA30-B	EPA40	EPA40-B	EPA60	EPA60-B
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

PP Screw Caps Closed Top with Septa Butyl/PTFE, Thickness 1.3 mm

Color	black	black	black	black	white	white
Thread	8-425	13-425	15-425	18-400	20-400	24-400
Part No.	SV-8-425	SV-13-425	SV-15-425	SV-18-400	SV-20-400	SV-24-400
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

Screw Caps Closed Top white with Septa PTFE/PE Foam Liner, Thickness 1.3 mm

Cap Material	Urethane	PP	PP	PP	PP
Thread	13-425	15-425	18-400	20-400	24-400
Part No.	SV-13-425-P	SV-15-425-P	SV-18-400-P	SV-20-400-P	SV-24-400-P
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

EPA ND24 PP Screw Caps with 12.5 mm Center Hole and Septa

Color	white	white, for EPA Vials	EPA Septa	
Thread	24-400	24-400	-	
Septa	Silicone/PTFE	without Septa	Silicone/PTFE	
Thickness	3.2 mm		3.2 mm	
Part No.	SV-EPA	SV-EPA-CAP	SV-EPA-SEPTA	
Qty.	pk.100	pk.100	pk.100	see page 46

Urea Screw Caps Closed Top green with PE Foam/PTFE Liner

- Wide range of chemical compatibility
- Most temperature tolerant of plastic closures

Thread	8-425	13-425	15-425	18-400
Part No.	QP-272635	QP-272632	QP-272633	QP-272634
Qty.	pk.100	pk.100	pk.100	pk.100
Thread	20-400	22-400	24-400	
Part No.	QP-272626	QP-272627	QP-272628	
Qty.	pk.100	pk.100	pk.100	








PP Storage Box
for 28 mm OD EPA Vials
(130 x 130 x 80mm)
16 Positions

PPSB28A-V
ea.

Mini Reaction Vials with Open Hole Screw Cap and PTFE/Silicone Septa

Borosilicate glass

					
Volume	10 ml	10 ml	5 ml	3 ml	1 ml
Glass Type	clear	amber	clear	clear	clear
Thread	20-400	20-400	20-400	20-400	13-425
Specifications	Vial OD: ~22.3 mm Vial Opening ID: ~13.3 mm Heigh w. Cap: ~84.1 mm Heigh w/o Cap: ~80.8 mm	Vial OD: ~22.3 mm Vial Opening ID: ~13.3 mm Heigh w. Cap: ~84.1 mm Heigh w/o Cap: ~80.8 mm	Vial OD: ~19.5 mm Vial Opening ID: ~13.2 mm Heigh w. Cap: ~63.8 mm Heigh w/o Cap: ~60.3 mm	Vial OD: ~20.5 mm Vial Opening ID: ~13.3 mm Heigh w. Cap: ~52.0 mm Heigh w/o Cap: ~48.4 mm	Vial OD: ~12.5 mm Vial Opening ID: ~7.8 mm Heigh w. Cap: ~48.5 mm Heigh w/o Cap: ~45.3 mm
Part No.	MRV-10	MRVA-10	MRV-5	MRV-3	MRV-1
Qty.	pk.12	pk.12	pk.12	pk.12	pk.12

Mininert® Valves Screw Caps

- Temperature: The valves can be used up to 40°C (105°F). Note: After use at high temperatures, the valve may leak slightly when cooled down.
- Pressure: Valves can be used up to 8 bar (120 psi). Note: Pressurization of glass vials can be extremely dangerous and is not recommended.

					
Thread	24-400	20-400	18-400	15-425	13-425
Part No.	MV-24T	MV-20T	MV-18T	MV-15T	MV-13T
Qty.	pk.12	pk.12	pk.12	pk.12	pk.12

Screw Caps Open Hole with Septa Silicone/PTFE for Mini Reaction Vials

		
Color	black	black
Thread	20-400 for MRV-3, MRV-5, MRV-10	13-425 for MRV-1
Part No.	MRV-CS2	MRV-CS1
Qty.	pk.48	pk.48

Specifications for Screw Caps:

- Black Phenolic Cap: max. Temp. 149°C
- PTFE/Silicone Septa: max. Temp. 250°C

Note: Be aware that using the caps in combination with reaction vials at elevated temperatures can increase the internal pressure. Maximum working temperatures might be affected and working temperatures are decreased.



Syringes

see page 91

BGB Easy Grip Manual Crimper and Decapper



Our Easy Grip Manual Crimper and Decapper for all 8, 11, 13 and 20 mm crimp caps. The curved handle features comfortable use compared to metal grip designs. The bottom-pull handle allows for a steadier hold than top-push handles.

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



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



Best Seller

Part No.	Description	Qty.
295000	8 mm Crimper	ea.
295001	11 mm Crimper	ea.
295002	13 mm Crimper	ea.
295003	13 mm Crimper for Flip Off and Tear Off Caps	ea.
295004	20 mm Crimper	ea.
295005	20 mm Crimper for Flip Off and Tear Off Caps	ea.
295006	11 mm Decapper	ea.
295007	13 mm Decapper	ea.
295008	20 mm Decapper	ea.



Easy to use.



BGB Classic Manual Crimper and Decapper

- Chemically resistant surface finish especially designed for the application in the labs.
- Hardened crimping jaws made of special alloy that guarantees long life
- Adjustable in crimping pressure limitation by a screw in the handle
- Additionally 11 mm, 13 mm and 20 mm crimpers are adjustable in crimping height by screwing up or down the pressure block in the crimping head with a hexagon key.



Part No.	Description	Qty.
295020	8 mm Crimper	ea.
295021	11 mm Adjustable Crimper	ea.
295022	13 mm Adjustable Crimper	ea.
295023	13 mm Adjustable Crimper for Flip Off and Tear Off Caps	ea.
295024	20 mm Adjustable Crimper	ea.
295025	20 mm Adjustable Crimper for Flip Off and Tear Off Caps	ea.
295026	8 mm Decapper	ea.
295027	11 mm Decapper	ea.
295028	13 mm Decapper	ea.
295029	20 mm Decapper	ea.

BGB Electronic Crimper and Decapper Model 6



Our new Electronic Crimpers and Decappers with enhanced OLED screen displays fit on standard laboratory vials and seals with aluminum caps. The electronically adjustable cycle is accurate and reproducible and can be adjusted on the display of the unit. The tools are ergonomically designed to reduce strain and arm injury associated with many manual crimping tools.

- Powerful motor with fast cycle
- Longer lasting battery with Lithium Ion technology
- Advanced charging system including warning light when recharging is necessary
- Can be operated while charging
- Controls on top of unit with enhanced OLED Screen

Note: Not suitable for all-steel or magnetic ring crimp caps, please use High Power Electronic Crimping Tool (see page 50) for this type of caps.



OLED screen display



Easy to use.



Part No.	Description	Qty.
297040	8 mm Crimper Model 6	ea.
297041	11 mm Crimper Model 6	ea.
297042	13 mm Crimper Model 6	ea.
297043	13 mm Crimper Model 6 for Flip Off and Tear Off Caps	ea.
297044	20 mm Crimper Model 6	ea.
297045	20 mm Crimper Model 6 for Flip Off and Tear Off Caps	ea.
297046	11 mm Decapper Model 6	ea.
297047	13 mm Decapper Model 6	ea.
297048	20 mm Decapper Model 6	ea.

BGB Crimping Tool Stand

Stand for BGB Electronic and Easy Grip Manual Crimpers and Decappers.



Part No.	Description	Qty.
295080	Crimping Tool Stand	ea.



Examples of use.

BGB High Power Electronic Crimping Tool HPS Model 6

The High Power Electronic Crimping Tool with new OLED screen display is faster and more powerful than the electronic crimping tool. The HPS crimping tool is designed to store separate programs for different caps and seals. It is powered by a universal power supply and uses interchangeable jaw sets. Jaw sets are strong enough to crimp all steel and magnetic caps.

- High-Power version of electronic crimping tool with fixed power supply and cord (no battery).
- Uses interchangeable jaw sets.
- Stores separate programs for different caps and seals.
- Strong enough for all steel and magnetic caps.
- Optional base with mounting kit.



Part No.	Description	Qty.
297060	High Power Electr. Crimping Tool Model 6	ea.




High Power Electronic Crimping Tool is not included.

Part No.	Description	Qty.
295061	Base with Mounting Kit	ea.

Jaw Sets for BGB High Power Electronic Crimping Tool HPS

Dimension Tool	8 mm Crimper	11 mm Crimper	13 mm Crimper	13 mm Crimper for Flip Off and Tear Off Caps	20 mm Crimper	20 mm Crimper for Flip Off and Tear Off Caps
Part No.	295062	295063	295064	295065	295066	295067
Qty.	ea.	ea.	ea.	ea.	ea.	ea.

Dimension Tool	11 mm Decapper	13 mm Decapper	20 mm Decapper
Part No.	295068	295069	295070
Qty.	ea.	ea.	ea.



Jaw Sets are easy to change. Simply insert the jaw set into the bushing at the bottom of the tool. Push up and twist until the set locks into position.
To remove, push the outside button and rotate.

PP Vial Racks



Application
Dimensions
Positions
Part No.
Qty.

For Standard 1.5 ml Vials up to 12 mm OD
200 x 105 x 17 mm
50
VR12
pk.5



Application
Dimensions
Positions
Part No.
Qty.

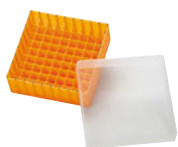
For Standard 4 ml Vials up to 15 mm OD
230 x 117 x 28 mm
50
VR15
pk.5

PP Storage Boxes



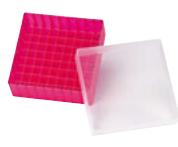
Application
Dimensions
Positions
Color
Part No.
Qty.

for 12 mm OD Vials
130 x 130 x 45 mm
81
blue
PPSB12-B
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 12 mm OD Vials
130 x 130 x 45 mm
81
orange
PPSB12-O
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 12 mm OD Vials
130 x 130 x 45 mm
81
pink
PPSB12-P
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 12 mm OD Vials
130 x 130 x 45 mm
81
yellow
PPSB12-Y
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 12 mm OD Vials
130 x 130 x 45 mm
81
green
PPSB12-G
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 12 mm OD Vials
130 x 130 x 45 mm
81
transparent
PPSB12-T
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 15 mm OD Vials
130 x 130 x 52 mm
49
red
PPSB15-R
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 24 mm OD Vials
130 x 130 x 102 mm
25
blue
PPSB24-B
ea.



Application
Dimensions
Positions
Color
Part No.
Qty.

for 28 mm OD EPA Vials
130 x 130 x 80 mm
16
violett
PPSB28A-V
ea.



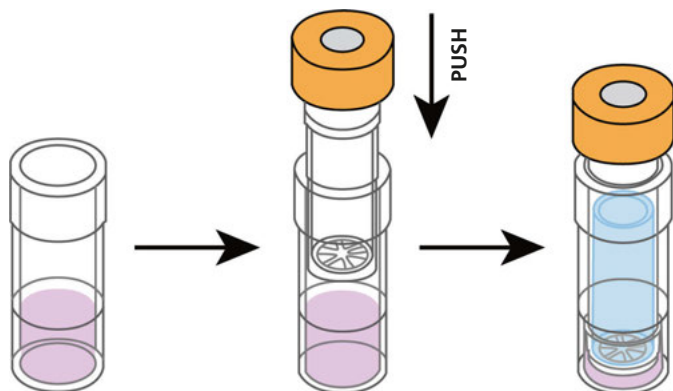
Application
Dimensions
Positions
Color
Part No.
Qty.

for 28 mm OD EPA Vials
130 x 130 x 105 mm
10
violett
PPSB28B-V
ea.



For Vials
see page 26–45


BGB Filter Vials











Filter vials provide an efficient, single-step filtering sample preparation process that quickly and easily cleans up your samples. They increase sample integrity by retaining the complete sample inside the vial. The filter vials are compatible with most autosamplers; pre-slitted caps ensure that the autosampler needle can easily penetrate the vial. Filter vials are easy to press and can be used with a Multi-Vial Compressor System or manually.

Filter vials are an all-in-one filtration product that reduces waste by replacing the disposable syringes, syringe filters, glass vials and caps of the classic sample preparation process. They are available with 0.20µm and 0.45µm nylon, PES, PTFE, PVDF and regenerated cellulose (RC) membrane filters.








- For high-throughput chromatographic analysis
- Vial dimensions 32mm x 12mm (height x diameter)
- Polypropylene housing and piston
- Pre-slitted PP cap with PTFE/silicone septa
- 480µL max. fill volume
- 30µL dead volume
- 50°C (120°F) max. operating temperature
- 0.6bar (8psi) compression force

 Pre-slitted PP cap with PTFE/silicone septa

	 	 	 	 
Dimension	32 x 12mm	32 x 12mm	32 x 12mm	32 x 12mm
Membrane	Nylon	Nylon	PES	PES
Pore Size	0.20 µm	0.45 µm	0.20 µm	0.45 µm
Part No.	FV03-1	FV03-2	FV07-1	FV07-2
Qty.	pk.100	pk.100	pk.100	pk.100



Pre-slitted PP cap with PTFE/silicone septa

	 	 	 	 
Dimension	32 x 12mm	32 x 12mm	32 x 12mm	32 x 12mm
Membrane	PTFE	PTFE	PVDF	PVDF
Pore Size	0.20 μ m	0.45 μ m	0.20 μ m	0.45 μ m
Part No.	FV04-1	FV04-2	FV05-1	FV05-2
Qty.	pk.100	pk.100	pk.100	pk.100
	 	 		
Dimension	32 x 12mm	32 x 12mm		
Membrane	RC	RC		
Pore Size	0.20 μ m	0.45 μ m		
Part No.	FV01-1	FV01-2		
Qty.	pk.100	pk.100		

Filtration

High Quality Syringe Filters



Triple Filter

	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Housing			
Membrane Diameter	25 mm	13 mm	25 mm
Membrane Layer	1 Layer	1 Layer	3 Layers: Membrane + 10 µm/1 µm Graded Prefilter + 0.7 µm Glass Fiber
Housing Diameter	33 mm	18 mm	33 mm
Filtration Area	4.6 cm ²	0.76 cm ²	4.6 cm ²
Holdup Volume	<100 µl	<50 µl	<80 µl
Sample Volume	<100 ml	<10 ml	<100 µl
Inlet Connection	Luer Lock Female	Luer Lock Female	Luer Lock Female
Outlet Connection	Luer Tip Male	Luer Tip Male	Luer Tip Male
Max. Operating Pressure	5.51 bar (80 psi)	5.51 bar (80 psi)	5.17 bar (75 psi)
Max. Temperature	90 °C (194 ° F)	90 °C (194 ° F)	90 °C (194 ° F)
Sterile	No	No	No

Membrane

Nylon

(Polyamide)

Part No.	Diameter	Pore Size	Qty.
SF2503-1A	25 mm	0.22 µm	pk.100
SF2503-2A	25 mm	0.45 µm	pk.100
SF1303-1A	13 mm	0.22 µm	pk.100
SF1303-2A	13 mm	0.45 µm	pk.100

Triple Filter

Nylon

(Polyamide)

SF2503-1A3	25 mm	0.22 µm	pk.100
SF2503-2A3	25 mm	0.45 µm	pk.100

PTFE – Hydrophobic

(Polytetrafluoroethylene)

SF2504-1A	25 mm	0.22 µm	pk.100
SF2504-2A	25 mm	0.45 µm	pk.100
SF1304-1A	13 mm	0.22 µm	pk.100
SF1304-2A	13 mm	0.45 µm	pk.100

Triple Filter

PTFE – Hydrophobic

(Polytetrafluoroethylene)

SF2504-1A3	25 mm	0.22 µm	pk.100
SF2504-2A3	25 mm	0.45 µm	pk.100

PTFE – Hydrophilic

(Polytetrafluoroethylene)

SF2509-1A	25 mm	0.22 µm	pk.100
SF2509-2A	25 mm	0.45 µm	pk.100
SF1309-1A	13 mm	0.22 µm	pk.100
SF1309-2A	13 mm	0.45 µm	pk.100

Triple Filter

PTFE – Hydrophilic

(Polytetrafluoroethylene)

SF2509-1A3	25 mm	0.22 µm	pk.100
SF2509-2A3	25 mm	0.45 µm	pk.100

PE

(Polyethylene)

SF2506-1A	25 mm	0.22 µm	pk.100
SF2506-2A	25 mm	0.50 µm	pk.100
SF1306-1A	13 mm	0.22 µm	pk.100
SF1306-2A	13 mm	0.50 µm	pk.100

Membrane Chemical Compatibility Chart

https://www.bgb-info.com/files/Filter_Comp_Chart.pdf




Membrane	Part No.	Diameter	Pore Size	Qty.
PVDF (Polyvinylidene Fluoride)	SF2505-1A	25 mm	0.22 µm	pk.100
	SF2505-2A	25 mm	0.45 µm	pk.100
	SF1305-1A	13 mm	0.22 µm	pk.100
	SF1305-2A	13 mm	0.45 µm	pk.100
Triple Filter PVDF (Polyvinylidene Fluoride)	SF2505-1A3	25 mm	0.22 µm	pk.100
	SF2505-2A3	25 mm	0.45 µm	pk.100
PES (Polyethersulfone)	SF2507-1A	25 mm	0.22 µm	pk.100
	SF2507-2A	25 mm	0.45 µm	pk.100
	SF1307-1A	13 mm	0.22 µm	pk.100
	SF1307-2A	13 mm	0.45 µm	pk.100
Triple Filter PES (Polyethersulfone)	SF2507-1A3	25 mm	0.22 µm	pk.100
	SF2507-2A3	25 mm	0.45 µm	pk.100
Triple Filter CA (Cellulose Acetate)	SF2502-1A3	25 mm	0.22 µm	pk.100
	SF2502-2A3	25 mm	0.45 µm	pk.100
GF (Glass Fiber)	SF2500-07A	25 mm	0.70 µm	pk.100
	SF2500-10A	25 mm	1.00 µm	pk.100
	SF2500-12A	25 mm	1.20 µm	pk.100
	SF2500-31A	25 mm	3.10 µm	pk.100
RC (Regenerated Cellulose)	SF2501-1A	25 mm	0.22 µm	pk.100
	SF2501-2A	25 mm	0.45 µm	pk.100
	SF1301-1A	13 mm	0.22 µm	pk.100
	SF1301-2A	13 mm	0.45 µm	pk.100







HPLC Certified Plastic Disposable Syringes
see page 57

High Quality Syringe Filters



			
Housing	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Diameter	30 mm	25 mm	17 mm
Filtration Area	4.91 cm ²	3.7 cm ²	1.33 cm ²
Holdup Volume	<137 µl	<100 µl	<29 µl
Sample Volume	<100 ml	<100 ml	<10 ml
Inlet Connection	Luer Lock Female	Luer Lock Female	Luer Lock Female
Outlet Connection	Luer Tip Male	Luer Tip Male	Luer Tip Male
Max. Operating Pressure	6.2 bar (90 psi)	5 bar (72 psi)	7.9 bar (115 psi)

30 mm

				
Color	blue	yellow	grey	brown
Membrane	PTFE/ Glass Fiber Prefilter	PTFE/ Glass Fiber Prefilter	Regenerated Cellulose (RC)/ Glass Fiber Prefilter	Regenerated Cellulose (RC)/ Glass Fiber Prefilter
Pore Size	0.20 µm	0.45 µm	0.20 µm	0.45 µm
Miscellaneous	Hydrophobic	Hydrophobic	Hydrophilic	Hydrophilic
Part No.	30162086	30162087	30162088	30162089
Qty.	pk.100	pk.100	pk.100	pk.100

30 mm

					
Color	purple	green	black	red	orange
Membrane	Nylon (PA)/ Glass Fiber Prefilter	Nylon (PA)/ Glass Fiber Prefilter	PVDF/ Glass Fiber Prefilter	PVDF	Glass Fiber
Pore Size	0.20 µm	0.45 µm	0.20 µm	0.45 µm	1.2 µm
Miscellaneous	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
Part No.	30162090	30162091	30162092	30162093	30162094
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100

25 mm

						
Color	green	natural	blue	yellow	bright blue	bright green
Membrane	PTFE	PTFE	reg. Cellulose (RC)	reg. Cellulose (RC)	Nylon (PA)	Nylon (PA)
Pore Size	0.20 µm	0.45 µm	0.20 µm	0.45 µm	0.20 µm	0.45 µm
Miscellaneous	Hydrophobic	Hydrophobic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
Part No.	25160346	25160347	25160348	25160349	25160350	25160351
Qty.	pk.100	pk.100	pk.100	pk.100	pk.100	pk.100

17 mm

Color
Membrane
Pore Size
Miscellaneous



blue
PTFE
0.20 µm
Hydrophobic
Part No.
17162076
Qty.
pk.100



yellow
PTFE
0.45 µm
Hydrophobic
Part No.
17162077
Qty.
pk.100



grey
Regenerated Cellulose (RC)
0.20 µm
Hydrophilic
Part No.
17162078
Qty.
pk.100



brown
Regenerated Cellulose (RC)
0.45 µm
Hydrophilic
Part No.
17162079
Qty.
pk.100

17 mm

Color
Membrane
Pore Size
Miscellaneous



purple
Nylon (PA)
0.20 µm
Hydrophilic
Part No.
17162080
Qty.
pk.100



green
Nylon (PA)
0.45 µm
Hydrophilic
Part No.
17162081
Qty.
pk.100



black
PVDF/Glass Fiber Prefilter
0.20 µm
Hydrophilic
Part No.
17162082
Qty.
pk.100



red
PVDF/Glass Fiber Prefilter
0.45 µm
Hydrophilic
Part No.
17162083
Qty.
pk.100

Disposable Plastic Syringes

Polypropylene (PP), HPLC Certified

with
Luer Tip

Volume
Connector
Part No.
Qty.



2 ml
Luer Tip
PP-EWS-2L
pk.100



5 ml
Luer Tip
PP-EWS-5L
pk.100



10 ml
Luer Tip
PP-EWS-10L
pk.100



20 ml
Luer Tip
PP-EWS-20L
pk.100

with
Luer Lock

Volume
Connector
Part No.
Qty.



2 ml
Luer Lock Tip
PP-EWS-2LL
pk.100



5 ml
Luer Lock Tip
PP-EWS-5LL
pk.100



10 ml
Luer Lock Tip
PP-EWS-10LL
pk.100



20 ml
Luer Lock Tip
PP-EWS-20LL
pk.100

Spin Filters

Maxi Spin Filter, non sterile
25ml capacity, with 50ml receiver tube



Part No.	Membrane	Pore Size	Qty.
SPFMAXCA02	CA	0.20 µm	pk.50
SPFMAXCA45	CA	0.45 µm	pk.50
SPFMAXNC02	NC	0.20 µm	pk.50
SPFMAXNC45	NC	0.45 µm	pk.50
SPFMAXNL02	Nylon	0.20 µm	pk.50
SPFMAXNL45	Nylon	0.45 µm	pk.50
SPFMAXPS02	PES	0.20 µm	pk.50
SPFMAXPS45	PES	0.45 µm	pk.50
SPFMAXPP02	PP	0.20 µm	pk.50
SPFMAXPP45	PP	0.45 µm	pk.50
SPFMAXPT02	PTFE	0.20 µm	pk.50
SPFMAXPT45	PTFE	0.45 µm	pk.50
SPFMAXPV02	PVDF	0.20 µm	pk.50
SPFMAXPV45	PVDF	0.45 µm	pk.50
SPFMAXRC02	RC	0.20 µm	pk.50
SPFMAXRC45	RC	0.45 µm	pk.50

Midi Spin Filter, non sterile
4ml capacity, with 7ml receiver tube



Part No.	Membrane	Pore Size	Qty.
SPFMIDCA02	CA	0.20 µm	pk.25
SPFMIDCA45	CA	0.45 µm	pk.25
SPFMIDNC02	NC	0.20 µm	pk.25
SPFMIDNC45	NC	0.45 µm	pk.25
SPFMIDNL02	Nylon	0.20 µm	pk.25
SPFMIDNL45	Nylon	0.45 µm	pk.25
SPFMIDPS02	PES	0.20 µm	pk.25
SPFMIDPS45	PES	0.45 µm	pk.25
SPFMIDPP02	PP	0.20 µm	pk.25
SPFMIDPP45	PP	0.45 µm	pk.25
SPFMIDPT02	PTFE	0.20 µm	pk.25
SPFMIDPT45	PTFE	0.45 µm	pk.25
SPFMIDPV02	PVDF	0.20 µm	pk.25
SPFMIDPV45	PVDF	0.45 µm	pk.25
SPFMIDRC02	RC	0.20 µm	pk.25
SPFMIDRC45	RC	0.45 µm	pk.25

Micro Spin Filter, non sterile
800 µl capacity, with 2.0ml receiver tube



Part No.	Membrane	Pore Size	Qty.
SPFMICCA02	CA	0.20 µm	pk.100
SPFMICCA45	CA	0.45 µm	pk.100
SPFMICNC02	NC	0.20 µm	pk.100
SPFMICNC45	NC	0.45 µm	pk.100
SPFMICNL02	Nylon	0.20 µm	pk.100
SPFMICNL45	Nylon	0.45 µm	pk.100
SPFMICPS02	PES	0.20 µm	pk.100
SPFMICPS45	PES	0.45 µm	pk.100
SPFMICPP02	PP	0.20 µm	pk.100
SPFMICPP45	PP	0.45 µm	pk.100
SPFMICPT02	PTFE	0.20 µm	pk.100
SPFMICPT45	PTFE	0.45 µm	pk.100
SPFMICPV02	PVDF	0.20 µm	pk.100
SPFMICPV45	PVDF	0.45 µm	pk.100
SPFMICRC02	RC	0.20 µm	pk.100
SPFMICRC45	RC	0.45 µm	pk.100

Nano Spin Filter, non sterile
400 µl capacity, with 2.0ml capples receiver tube

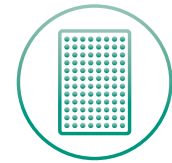


Part No.	Membrane	Pore Size	Qty.
SPFNANCA02	CA	0.20 µm	pk.100
SPFNANCA45	CA	0.45 µm	pk.100
SPFNANNC02	NC	0.20 µm	pk.100
SPFNANNC45	NC	0.45 µm	pk.100
SPFNANNL02	Nylon	0.20 µm	pk.100
SPFNANNL45	Nylon	0.45 µm	pk.100
SPFNANPS02	PES	0.20 µm	pk.100
SPFNANPS45	PES	0.45 µm	pk.100
SPFNANPP02	PP	0.20 µm	pk.100
SPFNANPP45	PP	0.45 µm	pk.100
SPFNANPT02	PTFE	0.20 µm	pk.100
SPFNANPT45	PTFE	0.45 µm	pk.100
SPFNANPV02	PVDF	0.20 µm	pk.100
SPFNANPV45	PVDF	0.45 µm	pk.100
SPFNANRC02	RC	0.20 µm	pk.100
SPFNANRC45	RC	0.45 µm	pk.100

Well Filter Plates



96 Well Filter Plate, non sterile
850µL capacity



Part No.	Membrane	Pore Size	Qty.
WFPCA02	CA	0.20 µm	ea.
WFPCA45	CA	0.45 µm	ea.
WFPNC02	NC	0.20 µm	ea.
WFPNC45	NC	0.45 µm	ea.
WFPNL02	Nylon	0.20 µm	ea.
WFPNL45	Nylon	0.45 µm	ea.
WFPPS02	PES	0.20 µm	ea.
WFPPS45	PES	0.45 µm	ea.
WFPPP02	PP	0.20 µm	ea.
WFPPP45	PP	0.45 µm	ea.
WFPPT02	PTFE	0.20 µm	ea.
WFPPT45	PTFE	0.45 µm	ea.
WFPPV02	PVDF	0.20 µm	ea.
WFPPV45	PVDF	0.45 µm	ea.
WFPRC02	RC	0.20 µm	ea.
WFPRC45	RC	0.45 µm	ea.



Syringe Filters
see page 54



Spin Filters
see page 58

Membrane Filter Disc



Microfiltration is one kind of physical filtration process where contaminated fluid is passed through a special pore size membrane to separate suspended particles from liquid. Membrane filter discs are available in different membranes, pore sizes and diameters.



Membrane	Part No.	Diameter	Pore Size	Qty.
CA (Cellulose Acetate)	MFCA013022	13 mm	0.22 µm	pk.400
	MFCA025022	25 mm	0.22 µm	pk.200
	MFCA047022	47 mm *	0.22 µm	pk.200
	MFCA090022	90 mm	0.22 µm	pk.50
	MFCA142022	142 mm	0.22 µm	pk.50
	MFCA013045	13 mm	0.45 µm	pk.400
	MFCA025045	25 mm	0.45 µm	pk.200
	MFCA047045	47 mm *	0.45 µm	pk.200
	MFCA090045	90 mm	0.45 µm	pk.50
	MFCA142045	142 mm	0.45 µm	pk.50
CME (Cellulose Mixed Esters)	MFMCE013022	13 mm	0.22 µm	pk.400
	MFMCE025022	25 mm	0.22 µm	pk.200
	MFMCE047022	47 mm	0.22 µm	pk.200
	MFMCE050022	50 mm	0.22 µm	pk.50
	MFMCE090022	90 mm	0.22 µm	pk.50
	MFMCE142022	142 mm	0.22 µm	pk.50
	MFMCE013045	13 mm	0.45 µm	pk.400
	MFMCE025045	25 mm	0.45 µm	pk.200
	MFMCE047045	47 mm *	0.45 µm	pk.200
	MFMCE050045	50 mm	0.45 µm	pk.50
CN (Cellulose Nitrate)	MFCN013022	13 mm	0.22 µm	pk.400
	MFCN025022	25 mm	0.22 µm	pk.200
	MFCN047022	47 mm *	0.22 µm	pk.200
	MFCN090022	90 mm	0.22 µm	pk.50
	MFCN142022	142 mm	0.22 µm	pk.50
	MFCN013045	13 mm	0.45 µm	pk.400
	MFCN025045	25 mm	0.45 µm	pk.200
	MFCN047045	47 mm *	0.45 µm	pk.200
	MFCN090045	90 mm	0.45 µm	pk.50
	MFCN142045	142 mm	0.45 µm	pk.50

* matches with
Vacuum Filtration
Systems on page 63



Membrane**PTFE – Hydrophilic**

(Polytetrafluoroethylene)

Part No.	Diameter	Pore Size	Qty.
MFPTFE013022L	13 mm	0.22 µm	pk.400
MFPTFE090022L	90 mm	0.22 µm	pk.50
MFPTFE013045L	13 mm	0.45 µm	pk.400
MFPTFE025045L	25 mm	0.45 µm	pk.200
MFPTFE047045L	47 mm *	0.45 µm	pk.200
MFPTFE090045L	90 mm	0.45 µm	pk.50

PTFE – Hydrophobic

(Polytetrafluoroethylene)

MFPTFE013022B	13 mm	0.22 µm	pk.400
MFPTFE025022B	25 mm	0.22 µm	pk.200
MFPTFE047022B	47 mm *	0.22 µm	pk.200
MFPTFE090022B	90 mm	0.22 µm	pk.50
MFPTFE142022B	142 mm	0.22 µm	pk.50
MFPTFE025045B	25 mm	0.45 µm	pk.200
MFPTFE047045B	47 mm *	0.45 µm	pk.200
MFPTFE090045B	90 mm	0.45 µm	pk.50
MFPTFE142045B	142 mm	0.45 µm	pk.50

Nylon

(Polyamide)

MFNY013022	13 mm	0.22 µm	pk.400
MFNY025022	25 mm	0.22 µm	pk.200
MFNY047022	47 mm *	0.22 µm	pk.200
MFNY050022	50 mm	0.22 µm	pk.100
MFNY090022	90 mm	0.22 µm	pk.100
MFNY142022	142 mm	0.22 µm	pk.50
MFNY293022	293 mm	0.22 µm	pk.25
MFNY013045	13 mm	0.45 µm	pk.400
MFNY025045	25 mm	0.45 µm	pk.200
MFNY047045	47 mm *	0.45 µm	pk.200
MFNY050045	50 mm	0.45 µm	pk.100
MFNY090045	90 mm	0.45 µm	pk.100
MFNY142045	142 mm	0.45 µm	pk.50
MFNY293045	293 mm	0.45 µm	pk.25

PES

(Polyethersulfone)

MFPE013022	13 mm	0.22 µm	pk.400
MFPE025022	25 mm	0.22 µm	pk.200
MFPE047022	47 mm *	0.22 µm	pk.200
MFPE090022	90 mm	0.22 µm	pk.50
MFPE142022	142 mm	0.22 µm	pk.50
MFPE013045	13 mm	0.45 µm	pk.400
MFPE025045	25 mm	0.45 µm	pk.200
MFPE047045	47 mm *	0.45 µm	pk.200
MFPE090045	90 mm	0.45 µm	pk.50
MFPE142045	142 mm	0.45 µm	pk.50

PVDF Hydrophilic

(Polyvinylidene difluoride)

MFPVDF013022L	13 mm	0.22 µm	pk.400
MFPVDF025022L	25 mm	0.22 µm	pk.200
MFPVDF047022L	47 mm *	0.22 µm	pk.200
MFPVDF013045L	13 mm	0.45 µm	pk.400
MFPVDF025045L	25 mm	0.45 µm	pk.200
MFPVDF047045L	47 mm *	0.45 µm	pk.200

PVDF Hydrophobic

(Polyvinylidene difluoride)

MFPVDF013022	13 mm	0.22 µm	pk.400
MFPVDF025022	25 mm	0.22 µm	pk.200
MFPVDF047022	47 mm *	0.22 µm	pk.200
MFPVDF090022	90 mm	0.22 µm	pk.50
MFPVDF142022	142 mm	0.22 µm	pk.50
MFPVDF013045	13 mm	0.45 µm	pk.400
MFPVDF025045	25 mm	0.45 µm	pk.200
MFPVDF047045	47 mm *	0.45 µm	pk.200
MFPVDF090045	90 mm	0.45 µm	pk.50
MFPVDF142045	142 mm	0.45 µm	pk.50

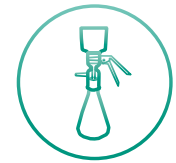
* matches with
Vacuum Filtration
Systems on page 63



Vacuum Filtration Systems



BGB Filter Funnels and In-Line Systems are made of durable polypropylene and are therefore practically indestructible. All filter systems are available with a filter support in stainless steel (SS) as a standard version and with a filter support in PEEK as a Bio-compatible version. They are easy to set up and use.



Vacuum Filter System In-Line



Container/Connection
Membrane Support

In-Line
Stainless Steel

Part No.

BVFFSINLSS

Qty.

ea.



In-Line
PEEK (Bio-compatible)

BVFFSINLPK

ea.

Vacuum Filter System with 1L Funnel



Container/Connection
Membrane Support

1L Funnel
Stainless Steel

Part No.

BVFFS1LSS

Qty.

ea.



1L Funnel
PEEK (Bio-compatible)

BVFFS1LPK

ea.

Vacuum Filter System with 2L Funnel



Container/Connection
Membrane Support

2L Funnel
Stainless Steel

Part No.

BVFFS2LSS

Qty.

ea.



2L Funnel
PEEK (Bio-compatible)

BVFFS2LPK

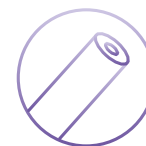
ea.

Vacuum Filtration Systems
Accessories and Spare Parts

www.bgb-shop.com/vacuum-filtration-systems-accessories



PEEK Tubing «Premium Grade»



- 1/32", 1/16", 1/8" and 1/4" OD tubing available
- Premium grade tubing with tighter tolerances
- Biocompatible
- Easy to cut

PEEK Tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting. The dense polymer structure of our PEEK tubing eliminates the permeability to organic solvents that causes other polymer tubing, such as ETFE to «sweat».

Remember PEEK tubing is not affected by halide salts, high strength buffers or other aggressive mobile phases that corrode stainless steel. The polymer surface will not leach metal ions into the eluent or extract metal sensitive components from the sample. By far the most outstanding property is its excellent burst pressure.

Due to the tighter tolerances, BGB PEEK tubing is the best choice for chromatography applications in which exact flow rates or tube volume are of importance. The tighter tolerance ensures a more consistent internal volume of the transfer lines.

PEEK Tubing – Solid Color-Coded – 1/16" OD



Part No.	OD	ID	Color	Pressure	Minimum Order (m)
211690	1/16"	0.050 mm	orange	483 bar	5 m
211691	1/16"	0.075 mm	purple	483 bar	5 m
211692	1/16"	0.10 mm	black	483 bar	5 m
211693	1/16"	0.13 mm	red	483 bar	5 m
211694	1/16"	0.18 mm	yellow	483 bar	5 m
211695	1/16"	0.25 mm	blue	483 bar	5 m
211696	1/16"	0.50 mm	orange	414 bar	5 m
211697	1/16"	0.75 mm	natural	276 bar	5 m
211698	1/16"	1.00 mm	black	207 bar	5 m

Maximum recommended working temperature
100°C (continuous use).

PEEK Tubing tolerances

Tubing OD	OD ± mm	ID ± mm
1/16" *	0.025	0.013
1/16" **	0.025	0.025

* for ID up to 0.10 mm
** for ID over 0.10 mm

PEEK Tubing – Striped Color-Coded – 1/32" OD



Part No.	OD	ID	Color	Pressure	Qty.
211630-3	1/32"	0.050 mm	orange	455 bar	3 m
211631-3	1/32"	0.064 mm	pink	455 bar	3 m
211632-3	1/32"	0.075 mm	green	455 bar	3 m
211633-3	1/32"	0.10 mm	black	455 bar	3 m
211634-3	1/32"	0.13 mm	red	414 bar	3 m
211635-3	1/32"	0.15 mm	natural	400 bar	3 m
211636-3	1/32"	0.18 mm	yellow	386 bar	3 m
211637-3	1/32"	0.25 mm	blue	338 bar	3 m
211638-3	1/32"	0.50 mm	orange	207 bar	3 m

PEEK Tubing tolerances

Tubing OD	OD ± mm	ID ± mm
1/32"	0.025	0.025

Polymeric Tubing Chemical Compatibility Chart

www.bgb-shop.com/files/polymeric-tubing-chemical-resistance.pdf



Polymeric Tubing Cutter

see page 66

PEEK Tubing – Striped Color-Coded – 1/16" OD



Part No.	OD	ID	Color	Pressure	Qty.
211600-3	1/16"	0.050mm	orange	480 bar	3m
211600-5	1/16"	0.050mm	orange	480 bar	5m
211600-10	1/16"	0.050mm	orange	480 bar	10m
211600-25	1/16"	0.050mm	orange	480 bar	25m
211602-3	1/16"	0.075mm	green	470 bar	3m
211602-5	1/16"	0.075mm	green	470 bar	5m
211602-10	1/16"	0.075mm	green	470 bar	10m
211602-25	1/16"	0.075mm	green	470 bar	25m
211603-3	1/16"	0.10mm	black	460 bar	3m
211603-5	1/16"	0.10mm	black	460 bar	5m
211603-10	1/16"	0.10mm	black	460 bar	10m
211603-25	1/16"	0.10mm	black	460 bar	25m
211604-3	1/16"	0.13mm	red	460 bar	3m
211604-5	1/16"	0.13mm	red	460 bar	5m
211604-10	1/16"	0.13mm	red	460 bar	10m
211604-25	1/16"	0.13mm	red	460 bar	25m
211605-3	1/16"	0.18mm	yellow	440 bar	3m
211605-5	1/16"	0.18mm	yellow	440 bar	5m
211605-10	1/16"	0.18mm	yellow	440 bar	10m
211605-25	1/16"	0.18mm	yellow	440 bar	25m
211606-3	1/16"	0.25mm	blue	420 bar	3m
211606-5	1/16"	0.25mm	blue	420 bar	5m
211606-10	1/16"	0.25mm	blue	420 bar	10m
211606-25	1/16"	0.25mm	blue	420 bar	25m
211607-3	1/16"	0.50mm	orange	345 bar	3m
211607-5	1/16"	0.50mm	orange	345 bar	5m
211607-10	1/16"	0.50mm	orange	345 bar	10m
211607-25	1/16"	0.50mm	orange	345 bar	25m
211608-3	1/16"	0.75mm	green	262 bar	3m
211608-5	1/16"	0.75mm	green	262 bar	5m
211608-10	1/16"	0.75mm	green	262 bar	10m
211608-25	1/16"	0.75mm	green	262 bar	25m
211609-3	1/16"	1.00mm	grey	179 bar	3m
211609-5	1/16"	1.00mm	grey	179 bar	5m
211609-10	1/16"	1.00mm	grey	179 bar	10m
211609-25	1/16"	1.00mm	grey	179 bar	25m
211610-3	1/16"	1.40mm	black	55 bar	3m
211610-5	1/16"	1.40mm	black	55 bar	5m
211610-10	1/16"	1.40mm	black	55 bar	10m
211610-25	1/16"	1.40mm	black	55 bar	25m

Maximum recommended working temperature 100 °C (continuous) for 1/16" OD tubing with ID up to 0.75 mm.

PEEK Tubing tolerances

Tubing OD	OD ± mm	ID ± mm
1/16" *	0.025	0.013
1/16" **	0.025	0.025

* for ID up to 0.25 mm

** for ID over 0.25 mm



Fittings & Ferrules

see page 73

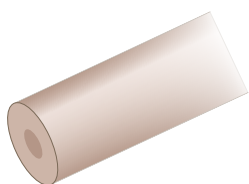
www.bgb-shop.com/hplc-accessories

Polymeric Tubing Chemical Compatibility Chart

www.bgb-shop.com/files/polymeric-tubing-chemical-resistance.pdf

PEEK Tubing «Premium Grade»

PEEK Tubing – Natural – 1/8" & 1/4" OD



Part No.	OD	ID	Color	Pressure	Minimum Order (m)
211590	1/8"	1.59 mm	natural	267 bar	5 m
211591	1/8"	2.00 mm	natural	207 bar	5 m
211684-1	1/4"	3.18 mm	natural	227 bar	per 1 m

Maximum recommended working temperature
100 °C (continuous use).

PEEK Tubing tolerances

Tubing OD	OD ± mm	ID ± mm
1/8"	0.003	0.003
1/4"	0.100	0.100



Tubing Sleeves

Connecting Fused Silica Tubing into HPLC Ports

Type	Material	Inner Diameter	For OD Tubing	Color	Part No.	Qty.
	FEP	395 µm	340-380 µm	Green	220545	pk.10
	PEEK	405 µm	350-390 µm	Orange	220525	pk.10
	FEP	395 µm	340-380 µm	Green	220565	pk.10
	PEEK	380 µm	325-365 µm	Natural	220574	pk.10

Polymeric Tubing Cutter

The Polymeric Tubing Cutter makes burr-free perpendicular cuts to PEEK, PTFE, ETFE, FEP, PFA and other polymeric tubing without distorting the OD or ID. For tubing OD 1/16", 1/8", 2 mm, 3 mm and 4 mm.

	
Description	Description
Polymeric Tubing Cutter	Replacement Blade for Polymeric Tubing Cutter
Part No.	Part No.
220387	220388
Qty.	Qty.
ea.	ea.



SETonic PEEK Tubing Connector Syringes

www.bgb-shop.com/setonic-threaded

Polymeric Tubing



- For low and mid pressure applications
- Biocompatible
- Easy to cut

FEP Tubing

FEP (Fluorinated Ethylenepropylene) is chemically inert to most HPLC solvents and is recommended for low pressure applications. We recommend FEP for ion chromatography applications. Max. operating temperature for FEP is 80 °C.

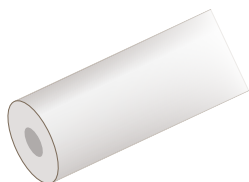
ETFE Tubing

ETFE (Etyhltrifluoroethylene) tubing has some outstanding properties which makes it particularly suitable for HPLC since it has a higher burst pressure when compared to PTFE. It is important to note that when using ETFE with organic solvents it may swell and will reduce the max. pressure to 70 bar. It is the ideal polymer for applications with chloride salts, which typically corrode stainless steel.

PTFE Tubing

PTFE (Polytetrafluoroethylene) tubing is chemically inert and suitable for lower pressure applications. Maximum continuous operating temperature is 100 °C.

For more Polymeric Tubing materials and other diameters visit www.bgb-shop.com/polymeric-tubing
Our online filter guide will help you to find the right tubing.



FEP Tubing – Natural – 1/8" OD

Part No.	OD	ID	Color	Max Pressure	Qty.
211540-3	1/8"	1.59 mm	natural	69 bar	3 m
211540-10	1/8"	1.59 mm	natural	69 bar	10 m
211540-25	1/8"	1.59 mm	natural	69 bar	25 m
211541-3	1/8"	2.10 mm	natural	41 bar	3 m
211541-10	1/8"	2.10 mm	natural	41 bar	10 m
211541-25	1/8"	2.10 mm	natural	41 bar	25 m

Maximum recommended working temperature
for FEP Tubing
80 °C (continuous)
for ETFE Tubing
80 °C (continuous)
for PTFE Tubing
100 °C (continuous).

Tubing tolerances		
Tubing OD	OD ± mm	ID ± mm
1/8"	0.10	0.10

ETFE Tubing – Natural – 1/8" OD

Part No.	OD	ID	Color	Max Pressure	Qty.
211906-3	1/8"	1.59 mm	natural	110 bar	3 m
211906-10	1/8"	1.59 mm	natural	110 bar	10 m
211906-25	1/8"	1.59 mm	natural	110 bar	25 m

PTFE Tubing – Natural – 1/8" OD

Part No.	OD	ID	Color	Max Pressure	Qty.
211925-3	1/8"	1.59 mm	natural	35 bar	3 m
211925-5	1/8"	1.59 mm	natural	35 bar	5 m
211925-10	1/8"	1.59 mm	natural	35 bar	10 m
211925-25	1/8"	1.59 mm	natural	35 bar	25 m
211926-3	1/8"	2.40 mm	natural	18 bar	3 m
211926-5	1/8"	2.40 mm	natural	18 bar	5 m
211926-10	1/8"	2.40 mm	natural	18 bar	10 m
211926-25	1/8"	2.40 mm	natural	18 bar	25 m

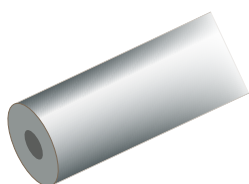


Polymeric Tubing Cutter
see page 66

Stainless Steel Tubing «Premium Grade»



- Premium Grade Stainless Steel Type 316 – Seamless
- Variety of sizes for UHPLC, HPLC and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections



Stainless Steel Tubing – Premium Grade – 1/32" OD

Part No.	OD	ID	Max Pressure	Qty.
211700-3	1/32"	0.13 mm	1735 bar	3 m
211700-10	1/32"	0.13 mm	1735 bar	10 m
211701-3	1/32"	0.18 mm	1600 bar	3 m
211701-10	1/32"	0.18 mm	1600 bar	10 m
211702-3	1/32"	0.25 mm	1395 bar	3 m
211702-10	1/32"	0.25 mm	1395 bar	10 m
211703-3	1/32"	0.50 mm	734 bar	3 m
211703-10	1/32"	0.50 mm	734 bar	10 m

Stainless Steel Tubing – Premium Grade – 1/16" OD

Part No.	OD	ID	Max Pressure	Qty.
211710-3	1/16"	0.13 mm	1900 bar	3 m
211710-10	1/16"	0.13 mm	1900 bar	10 m
211711-3	1/16"	0.25 mm	1735 bar	3 m
211711-10	1/16"	0.25 mm	1735 bar	10 m
211712-3	1/16"	0.38 mm	1395 bar	3 m
211712-10	1/16"	0.38 mm	1395 bar	10 m
211713-3	1/16"	0.50 mm	1395 bar	3 m
211713-10	1/16"	0.50 mm	1395 bar	10 m
211714-3	1/16"	0.75 mm	1065 bar	3 m
211714-10	1/16"	0.75 mm	1065 bar	10 m
211715-3	1/16"	1.00 mm	734 bar	3 m
211715-10	1/16"	1.00 mm	734 bar	10 m

Stainless Steel Tubing – Premium Grade – 1/8" OD

Part No.	OD	ID	Max Pressure	Qty.
211720-3	1/8"	0.75 mm	1570 bar	3 m
211720-10	1/8"	0.75 mm	1570 bar	10 m
211721-3	1/8"	1.00 mm	1400 bar	3 m
211721-10	1/8"	1.00 mm	1400 bar	10 m
211722-3	1/8"	1.52 mm	1075 bar	3 m
211722-10	1/8"	1.52 mm	1075 bar	10 m
211723-3	1/8"	1.78 mm	950 bar	3 m
211723-10	1/8"	1.78 mm	950 bar	10 m
211724-3	1/8"	2.16 mm	660 bar	3 m
211724-10	1/8"	2.16 mm	660 bar	10 m

Stainless Steel Tubing «Premium Grade» tolerances		
Tubing OD	OD ± mm	ID ± mm
1/32"	0.05	0.025
1/16"	0.05	0.025
1/8"	0.05	0.025

Metal Tubing Cutter

The Metal Tubing Cutter is the ideal way to cut 1/16" and 1/8" OD tubing, leaving smooth cuts requiring a minimum of deburring.



Metal Tubing Cutter

Part No.

220389

ea.



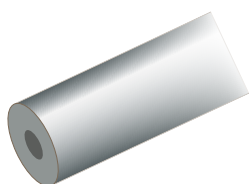
Replacement Cutting Wheel
for Metal Tubing Cutter

220390

ea.

Stainless Steel Tubing «Standard»

- Variety of sizes for UHPLC, HPLC and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections
- Stainless Steel Type 316



Stainless Steel Tubing – Standard Grade – 1/16" OD

Part No.	OD	ID	Max Pressure	Qty.
211730-3	1/16"	0.13 mm	1870 bar	3 m
211730-10	1/16"	0.13 mm	1870 bar	10 m
211731-3	1/16"	0.18 mm	1790 bar	3 m
211731-10	1/16"	0.18 mm	1790 bar	10 m
211732-3	1/16"	0.25 mm	1715 bar	3 m
211732-10	1/16"	0.25 mm	1715 bar	10 m
211733-3	1/16"	0.50 mm	1380 bar	3 m
211733-10	1/16"	0.50 mm	1380 bar	10 m
211734-3	1/16"	0.75 mm	1075 bar	3 m
211734-10	1/16"	0.75 mm	1075 bar	10 m
211735-3	1/16"	1.00 mm	743 bar	3 m
211735-10	1/16"	1.00 mm	743 bar	10 m

Stainless Steel Tubing «Standard» tolerances

Tubing OD	OD ± mm	ID ± mm
1/16"	0.05	0.05
1/8"	0.05	0.05
1/4"	0.05	0.05

Stainless Steel Tubing – Standard Grade – 1/8" OD

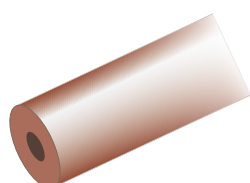
Part No.	OD	ID	Max Pressure	Qty.
211740-3	1/8"	2.10 mm	680 bar	3 m
211740-10	1/8"	2.10 mm	680 bar	10 m

Stainless Steel Tubing – Standard Grade – 1/4" OD

Part No.	OD	ID	Max Pressure	Qty.
211750-1	1/4"	4.65 mm	538 bar	1 m

Copper Tubing «Pre-Cleaned»

- Recommended for carrier gas lines
- Tubing is cleaned by solvent rinse
- Baked under inert gas flow



Copper Tubing tolerances

Tubing OD	OD ± mm	Wall ± mm
1/8"	0.051	0.076
1/4"	0.051	0.064

Part No.	OD	ID	Max Pressure	Qty.
211760	1/8"	1.65 mm (0.065")	193 bar	15.24 m (50 ft)
211761	1/4"	4.83 mm (0.190")	69 bar	15.24 m (50 ft)

Swagelok® Fittings and Unions

Fittings Brass

BGB carries a full line of quality Swagelok fittings, unions and connectors.



Part No.	Description	Qty.
SW-B-102-1	1/16" Nut	10
SW-B-202-1	1/8" Nut	10
SW-B-402-1	1/4" Nut	10



Part No.	Description	Qty.
SW-B-103-1	1/16" Front Ferrule	10
SW-B-203-1	1/8" Front Ferrule	10
SW-B-403-1	1/4" Front Ferrule	10



Part No.	Description	Qty.
SW-B-104-1	1/16" Back Ferrule	10
SW-B-204-1	1/8" Back Ferrule	10
SW-B-404-1	1/4" Back Ferrule	10



Part No.	Description	Qty.
SW-B-100-C	1/16" Cap	5
SW-B-200-C	1/8" Cap	5
SW-B-400-C	1/4" Cap	5



Part No.	Description	Qty.
SW-B-100-P	1/16" Plug	5
SW-B-200-P	1/8" Plug	5
SW-B-400-P	1/4" Plug	5



Part No.	Description	Qty.
SW-B-100-6	Union 1/16" to 1/16" ea.	
SW-B-200-6	Union 1/8" to 1/8" ea.	
SW-B-400-6	Union 1/4" to 1/4" ea.	



Part No.	Description	Qty.
SW-B-200-6-1	Reducing Union 1/8" to 1/16"	ea.
SW-B-400-6-1	Reducing Union 1/4" to 1/16"	ea.
SW-B-400-6-2	Reducing Union 1/4" to 1/8"	ea.



Part No.	Description	Qty.
SW-B-100-3	Union Tees 1/16" x 1/16" x 1/16"	ea.
SW-B-200-3	Union Tees 1/8" x 1/8" x 1/8"	ea.
SW-B-400-3	Union Tees 1/4" x 1/4" x 1/4"	ea.



Part No.	Description	Qty.
SW-B-100-6BT	Bored Through Unions 1/16" to 1/16" ea.	
SW-B-200-6BT	Bored Through Unions 1/8" to 1/8" ea.	
SW-B-400-6BT	Bored Through Unions 1/4" to 1/4" ea.	



Part No.	Description	Qty.
SW-B-100-1-1	Male Connector 1/16" to 1/16" NPT	ea.
SW-B-200-1-2	Male Connector 1/8" to 1/8" NPT	ea.
SW-B-400-1-4	Male Connector 1/4" to 1/4" NPT	ea.
SW-B-100-1-2	Male Connector 1/16" to 1/8" NPT	ea.
SW-B-200-1-1	Male Connector 1/8" to 1/16" NPT	ea.
SW-B-400-1-2	Male Connector 1/4" to 1/8" NPT	ea.
SW-B-200-1-4	Male Connector 1/8" to 1/4" NPT	ea.



Part No.	Description	Qty.
SW-B-200-7-2	Female Connector 1/8" to 1/8" NPT	ea.
SW-B-200-7-4	Female Connector 1/8" to 1/4" NPT	ea.
SW-B-400-7-2	Female Connector 1/4" to 1/8" NPT	ea.
SW-B-400-7-4	Female Connector 1/4" to 1/4" NPT	ea.



Part No.	Description	Qty.
SW-B-100-R-2	Reducers 1/16" to 1/8" Tube	ea.
SW-B-200-R-2	Reducers 1/8" to 1/8" Tube	ea.
SW-B-400-R-2	Reducers 1/4" to 1/8" Tube	ea.

Fittings Stainless Steel

BGB carries a full line of quality Swagelok fittings, unions and connectors.



Part No.	Description	Qty.
SW-SS-102-1	1/16" Nut	10
SW-SS-202-1	1/8" Nut	10
SW-SS-402-1	1/4" Nut	10



Part No.	Description	Qty.
SW-SS-103-1	1/16" Front Ferrule	10
SW-SS-203-1	1/8" Front Ferrule	10
SW-SS-403-1	1/4" Front Ferrule	10



Part No.	Description	Qty.
SW-SS-104-1	1/16" Back Ferrule	10
SW-SS-204-1	1/8" Back Ferrule	10
SW-SS-404-1	1/4" Back Ferrule	10



Part No.	Description	Qty.
SW-SS-100-C	1/16" Cap	5
SW-SS-200-C	1/8" Cap	5
SW-SS-400-C	1/4" Cap	5



Part No.	Description	Qty.
SW-SS-100-P	1/16" Plug	5
SW-SS-200-P	1/8" Plug	5
SW-SS-400-P	1/4" Plug	5



Part No.	Description	Qty.
SW-SS-100-6	Union 1/16" to 1/16" ea.	
SW-SS-200-6	Union 1/8" to 1/8" ea.	
SW-SS-400-6	Union 1/4" to 1/4" ea.	



Part No.	Description	Qty.
SW-SS-200-6-1	Reducing Union 1/8" to 1/16"	ea.
SW-SS-400-6-1	Reducing Union 1/4" to 1/16"	ea.
SW-SS-400-6-2	Reducing Union 1/4" to 1/8"	ea.



Part No.	Description	Qty.
SW-SS-100-3	Union Tees 1/16" x 1/16" x 1/16"	ea.
SW-SS-200-3	Union Tees 1/8" x 1/8" x 1/8"	ea.
SW-SS-400-3	Union Tees 1/4" x 1/4" x 1/4"	ea.



Part No.	Description	Qty.
SW-SS-100-6BT	Bored Through Unions 1/16" to 1/16" ea.	
SW-SS-200-6BT	Bored Through Unions 1/8" to 1/8" ea.	
SW-SS-400-6BT	Bored Through Unions 1/4" to 1/4" ea.	



Part No.	Description	Qty.
SW-SS-100-1-1	Male Connector 1/16" to 1/16" NPT	ea.
SW-SS-200-1-2	Male Connector 1/8" to 1/8" NPT	ea.
SW-SS-400-1-4	Male Connector 1/4" to 1/4" NPT	ea.
SW-SS-100-1-2	Male Connector 1/16" to 1/8" NPT	ea.
SW-SS-200-1-1	Male Connector 1/8" to 1/16" NPT	ea.
SW-SS-400-1-2	Male Connector 1/4" to 1/8" NPT	ea.
SW-SS-200-1-4	Male Connector 1/8" to 1/4" NPT	ea.



Part No.	Description	Qty.
SW-SS-200-7-2	Female Connector 1/8" to 1/8" NPT	ea.
SW-SS-200-7-4	Female Connector 1/8" to 1/4" NPT	ea.
SW-SS-400-7-2	Female Connector 1/4" to 1/8" NPT	ea.
SW-SS-400-7-4	Female Connector 1/4" to 1/4" NPT	ea.



Part No.	Description	Qty.
SW-SS-100-R-2	Reducers 1/16" to 1/8" Tube	ea.
SW-SS-200-R-2	Reducers 1/8" to 1/8" Tube	ea.
SW-SS-400-R-2	Reducers 1/4" to 1/8" Tube	ea.

Gas Toggle Valves

- Compact, rugged design
- Opens and closes quickly
- Straight and angle flow patterns

Swagelok® Toggle Valve Brass

Part No.	Description	Qty.
SW-B-OGS2	Toggle Valve, Brass, 1/8", straight	ea.
SW-B-1GS4	Toggle Valve, Brass, 1/4", straight	ea.
SW-B-OGS2-A	Toggle Valve, Brass, 1/8", angled	ea.
SW-B-1GS4-A	Toggle Valve, Brass, 1/4", angled	ea.



Toggle Valve, straight



Toggle Valve, angled

Swagelok® Toggle Valve Stainless Steel

Part No.	Description	Qty.
SW-SS-OGS2	Toggle Valve, SS, 1/8", straight	ea.
SW-SS-1GS4	Toggle Valve, SS, 1/4", straight	ea.
SW-SS-OGS2-A	Toggle Valve, SS, 1/8", angled	ea.
SW-SS-1GS4-A	Toggle Valve, SS, 1/4", angled	ea.

Gas Ball Valves

- Working pressure up to 200 bar
- Temperatures up to 150 °C
- Straight and angle flow patterns

Swagelok® Ball Valve Brass

Part No.	Description	Qty.
SW-B-41S2	Ball Valve, Brass, 1/8", straight	ea.
SW-B-43S4	Ball Valve, Brass, 1/4", straight	ea.
SW-B-41S2-A	Ball Valve, Brass, 1/8", angled	ea.
SW-B-43S4-A	Ball Valve, Brass, 1/4", angled	ea.



Ball Valve, straight



Ball Valve, angled

Swagelok® Ball Valve Stainless Steel

Part No.	Description	Qty.
SW-SS-41GS2	Ball Valve, SS, 1/8", straight	ea.
SW-SS-43GS4	Ball Valve, SS, 1/4", straight	ea.
SW-SS-41GS2-A	Ball Valve, SS, 1/8", angled	ea.
SW-SS-43GS4-A	Ball Valve, SS, 1/4", angled	ea.

Hexagon Key Set, 30 pieces (mm & inch)



Metric: 0.7; 0.9; 1.27; 1.5; 2.0; 2.5; 4.0; 4.5; 5.0; 5.5;
6.0; 7.0; 8.0; 10.0 mm
Inch: 0.028; 0.036; 0.05; 1/16; 5/64; 3/32; 7/64; 1/8;
9/64; 5/32; 3/16; 7/32; 1/4; 5/16 and 3/8 inch
Material: Chrome-Vanadium Steel

Part No.	Description	Qty.
IMBUS	Hexagon Key Set (mm & inch), Chrome-Vanadium Steel	ea.

HPLC Adapters, Fittings and Unions



1/16" 10-32 Standard HPLC Fittings for 1/16" OD Tubing

«No-Twist-One-Piece»

Material
Thread
Miscellaneous
Part No.
Qty.



max. 350bar

PEEK
1/16" 10-32
Hex Head, Short

220366
pk.5



max. 350bar

PEEK
1/16" 10-32
Hex Head, Standard

220367
pk.5



max. 350bar

PEEK
1/16" 10-32
Hex Head, Long

220368
pk.5



max. 350bar

PEEK
1/16" 10-32
Fingertight

220369
pk.5

One-Piece

Material
Thread
Miscellaneous
Part No.
Qty.



max. 345bar

PEEK
1/16" 10-32
Fingertight, Short

220370
pk.10



max. 345bar

PEEK
1/16" 10-32
Fingertight, Long

220371
pk.10



max. 345bar

PEEK
1/16" 10-32
Fingertight

200910
pk.10

Tubing Sleeves – Connecting Fused Silica Tubing into HPLC Ports

Type
Material
Inner Diameter
For OD Tubing
Color
Part No.
Qty.



1/16" OD
FEP
395 µm
340-380 µm
Green

220545
pk.10



1/16" OD
PEEK
405 µm
350-390 µm
Orange

220525
pk.10



1/32" OD
FEP
395 µm
340-380 µm
Green






220565
pk.10







1/32" OD
PEEK
380 µm
325-365 µm
Natural




220574
pk.10

1/16" 10-32 UHPLC Fittings, Ferrules and Nuts for 1/16" OD Tubing

					
	max. 1400 bar	max. 1400 bar	max. 1400 bar	max. 1400 bar	max. 1400 bar
Type	Nut & Ferrule	Nut & Ferrule	Nut & Ferrule	Nut & Ferrule	Ferrule
Material	SS & Ti/PEEK	SS & Ti/PEEK	SS & Ti/PEEK	SS & Ti/PEEK	Ti/PEEK
Thread	1/16" 10-32	1/16" 10-32	1/16" 10-32	1/16" 10-32	1/16" OD Tubing
Miscellaneous	Hex Head, Short	Hex Head, Standard	Hex Head, Long	Fingertight	-
Part No.	220355	220356	220357	220358	220359
Qty.	ea.	ea.	ea.	ea.	pk.2

				
	max. 1375 bar	max. 1375 bar	max. 1375 bar	max. 1375 bar
Type	Nut	Nut	Nut	Ferrule
Material	SS	SS	SS	SS
Thread	1/16" 10-32	1/16" 10-32	1/16" 10-32	1/16" OD Tubing
Miscellaneous	Hex Head, Short	Hex Head, Standard	Hex Head, Long	Valco Type
Part No.	200952	200953	200954	200955
Qty.	pk.5	pk.5	pk.5	pk.5

One-Piece

			
	max. 827 bar	max. 700 bar	max. 1000 bar
Type	Fitting	Fitting	Fitting
Material	PEEK	PEEK	PEEK
Thread	1/16" 10-32	1/16" 10-32	1/16" 10-32
Miscellaneous	Fingertight	Hex Head	Fingertight
Part No.	220364	220365	200910-HP
Qty.	pk.10	pk.10	pk.10








BGB HPLC Columns



www.bgb-shop.com/hplc-columns

1/4"-28 Flangeless Fittings & Ferrules



* depends on the ferrule used

					
	max. 69 / 172 bar*	max. 69 / 172 bar*		max. 69 bar	max. 172 bar
Type	Nut	Nut	Nut	Ferrule	Ferrule
Material	PEEK	PEEK	POM	ETFE with SS Ring	PEEK with SS Ring
Thread	1/4"-28	1/4"-28	1/4"-28	-	-
Miscellaneous	Fingertight, Short	Fingertight, Long	Fingertight, Long	1/8" OD Tubing	1/8" OD Tubing
Part No.	220344	220345	220346	220347	220348
Qty.	pk.10	pk.10	pk.10	pk.10	pk.10

				
	max. 35 bar	max. 35 bar	max. 105 bar	max. 105 bar
Type	Nut	Ferrule	Nut	Ferrule
Material	PPS	ETFE	PPS	ETFE
Thread	1/4"-28	-	1/4"-28	-
Miscellaneous	for 1/8" OD Tubing Hex Head	1/8" OD Tubing	for 1/16" OD Tubing Hex Head	1/16" OD Tubing
Part No.	220349	220351	220350	220352
Qty.	pk.10	pk.10	pk.10	pk.10

		
	max. 69 bar	max. 69 bar
Type	Fitting	Fitting
Material	PEEK	PEEK
Thread	1/4"-28	1/4"-28
Miscellaneous	«No-Twist-One-Piece» Fingertight	«No-Twist-One-Piece» Fingertight
Part No.	220353	220354
Qty.	ea.	ea.

M6 Fitting & Ferrule for 1/8" OD Tubing

		
	max. 69 / 172 bar*	max. 172 bar
Type	Nut	Ferrule
Material	PEEK	PEEK with SS Ring
Thread	M6 (metric)	1/8" OD Tubing
Part No.	220373	220348
Qty.	pk.5	pk.10

Adapters

			
Material	PEEK	PEEK	PEEK
Thread	1/16" 10-32 female to 1/4"-28 female	1/16" 10-32 male to 1/4"-28 female	1/16" 10-32 female to M6 female
Bore	0.4 mm	0.4 mm	0.4 mm
Part No.	220312	220300	220317
Qty.	ea.	ea.	ea.



SETonic PEEK Tubing Connector Syringes

www.bgb-shop.com/setonic-threaded

More Adapters, Fittings & Ferrules

www.bgb-shop.com/hplc-accessories

Unions

1/16" 10-32 Thread

Material
Thread
Bore
Part No.
Qty.



1/4"-28 Thread

Material
Thread
Bore
Part No.
Qty.



Reducing Unions

Material
Thread
Bore
Part No.
Qty.



Material
Thread
Bore
Part No.
Qty.

























Tees

Material
Thread
Bore
Part No.
Qty.



Adapters for Luer Ports (Syringe Adapters)

Material	 PEEK	 ETFE	 PEEK	 PEEK	 ETFE
Thread	1/4"-28 female to Luer Lock female	1/4"-28 female to Luer Lock female	1/4"-28 female to Luer Lock male	1/4"-28 male to Luer female	1/4"-28 male to Luer Lock female
Bore	1.3 mm	1.0 mm	1.3 mm	1.5 mm	1.3 mm
Part No.	220302	220303	220304	220305	220306
Qty.	ea.	pk.5	ea.	ea.	pk.5
Material	 ETFE	 PEEK	 ETFE	 PEEK	 PEEK
Thread	1/4"-28 male to Luer male	1/4"-28 male to Luer Lock male	1/16" 10-32 female to Luer Lock female	1/16" 10-32 female to Luer Lock female	1/16" 10-32 female to Luer Lock male
Bore	1.0 mm	1.0 mm	1.0 mm	1.3 mm	1.3 mm
Part No.	220307	220308	220313	220314	220315
Qty.	pk.5	ea.	pk.5	ea.	ea.
Material	 PEEK	 ETFE	 SS	 PEEK	 ETFE
Thread	1/16" 10-32 male to Luer Lock female	1/16" 10-32 male to Luer Lock female	1/16" 10-32 male to Luer female	M6 female to Luer Lock female	M6 male to Luer Lock female
Bore	1.3 mm	1.3 mm	1.0 mm	1.3 mm	1.3 mm
Part No.	220337	220316	220322	220320	220321
Qty.	ea.	pk.5	ea.	ea.	pk.5
Material	 PP	 PP	 PP	 PP	 PP
Thread	Luer Lock female to Barbed	Luer Lock female to Barbed	Luer Lock female to Barbed	Luer Lock male to Barbed	Luer Lock male to Barbed
Bore	0.76 mm	1.4 mm	2.0 mm	1.24 mm	1.8 mm
For Tubing	1/16" ID	3/32" ID	1/8" ID	1/16" ID	3/32" ID
Part No.	220323	220324	220325	220326	220327
Qty.	pk.10	pk.10	pk.10	pk.10	pk.10
Material	 PP	 PP			
Thread	Luer Lock male to Barbed	Luer Lock female to Luer Lock female			
Bore	2.5 mm	0.4 mm			
For Tubing	1/8" ID				
Part No.	220328	220329			
Qty.	pk.10	pk.10			



HPLC Certified Plastic Disposable Syringes
see page 57

Plugs

					
Material	SS	PEEK	ETFE	PEEK	POM
Thread	1/16" 10-32	1/16" 10-32	1/16" 10-32	1/4"-28	1/4"-28
Part No.	220330	220331	220332	220333	220334
Qty.	ea.	pk. 5	pk. 10	pk. 5	pk. 10
					
Material	SS	SS	PEEK		
Thread	1/8" 5/16"-24	1/4" 7/16"-20	360µm 2-56		
Part No.	220335	220336	202002		
Qty.	ea.	ea.	ea.		

Caps

					
Material	SS, high Pressure	PEEK	ETFE	PEEK	ETFE
Thread	1/16" 10-32	1/16" 10-32	1/16" 10-32	1/4"-28	1/4"-28
Miscellaneous	(incl. cap, nut & ferrule)	(incl. cap, nut & ferrule)			
Part No.	200972	220338	220339	220340	220341
Qty.	ea.	ea.	pk. 10	ea.	pk. 10
					
Material	SS	SS	PEEK,	SS	SS
Thread	1/8" 5/16"-24	1/4" 7/16"-20	360µm 2-56 thread	360µm 2-56 thread	360µm 2-56 thread
Miscellaneous	(incl. cap, nut & ferrule)	(incl. cap, nut & ferrule)	(incl. cap & fitting)	FS Type (incl. cap & fitting)	Metal Type (incl. cap & fitting)
Part No.	200973	220343	202001	202021	202031
Qty.	ea.	ea.	ea.	ea.	ea.



BGB HPLC Columns

www.bgb-shop.com/hplc-columns

HPLC Safety Products

Safety-Caps GL45 with Safety Air Inlet Valve Standard



Safety-Caps GL45 are available in blue, green, red, purple and yellow.

Standard

Tubing Ports	1x 1/8"	2x 1/8"	3x 1/8"	
Part No.	SP-S45F1 SP-S45F1-G SP-S45F1-R SP-S45F1-V SP-S45F1-Y	SP-S45F2 SP-S45F2-G SP-S45F2-R SP-S45F2-V SP-S45F2-Y	SP-S45F3 SP-S45F3-G SP-S45F3-R SP-S45F3-V SP-S45F3-Y	 -G -R
Qty.	ea.	ea.	ea.	

Standard

Tubing Ports	4x 1/8"	5x 1/8"	6x 1/8"	
Part No.	SP-S45F4 SP-S45F4-G SP-S45F4-R SP-S45F4-V SP-S45F4-Y	SP-S45F5 SP-S45F5-G SP-S45F5-R SP-S45F5-V SP-S45F5-Y	SP-S45F6 SP-S45F6-G SP-S45F6-R SP-S45F6-V SP-S45F6-Y	-V -Y
Qty.	ea.	ea.	ea.	Colour and type of the nuts can vary.

with Lock

Tubing Ports	1x 1/8"	2x 1/8"	3x 1/8"	4x 1/8"	Other colours on request.
Part No.	SP-S45F1-L	SP-S45F2-L	SP-S45F3-L	SP-S45F4-L	
Qty.	ea.	ea.	ea.	ea.	

Safety Air Inlet Valve and Safety Air Inlet Filters for Safety-Caps

Description	Safety Air Inlet Filter CO ₂ (Carbon Dioxide) removal	Safety Air Inlet Filter Humidity removal	Safety Air Inlet Valve Standard	Safety Air Inlet Valve for basic Amine Solvents	Safety Air Inlet Valve Prep
Part No.	211998-CO2	211998-H	SP-SAIV	SP-SAIV-A	SP-SAIV-P
Qty.	ea.	ea.	ea.	ea.	ea.

Safety-Caps GL45 for Prep HPLC with Safety Air Inlet Valve Standard

up to
150ml/min
flow

Tubing Ports

Part No.

Qty.



1x 1/4"

SP-S45P141

ea.



1x 1/4"
1x 1/8"

SP-S45F1P141

ea.



1x 3/16"

SP-S45P3161

ea.



2x 3/16"

SP-S45P3162

ea.



3x 3/16"

SP-S45P3163

ea.

Other colours on request.

Safety-Caps S55 for Prep HPLC with Safety Air Inlet Valve Prep

up to
500ml/min
flow

Tubing Port

Part No.

Qty.



1x 3/16"

SP-S55P316

ea.



1x 1/4"
1x 3/16"

SP-S55P316P141

ea.



1x 1/4"
1x 1/8"

SP-S55F1P141

ea.

Safety-Caps S60 for Prep HPLC with Safety Air Inlet Valve Prep

up to
500ml/min
flow

Tubing Port

Part No.

Qty.



1x 1/4"

SP-S60P141

ea.



1x 3/16"

SP-S60P316

ea.



1x 1/4"
1x 3/16"

SP-S60P316P141

ea.



1x 1/4"
1x 1/8"

SP-S60F1P141

ea.

Safety-Caps Ground Neck Bottle 29/32 mm with Air Inlet Valve Standard

Tubing Ports

Part No.

Qty.



1x 1/8"

SP-SGNF1

ea.



2x 1/8"

SP-SGNF2

ea.



3x 1/8"

SP-SGNF3

ea.



4x 1/8"

SP-SGNF4

ea.



Safety-Adapter
Ground Neck
29/32mm (male) to
GL45 (male)

SP-AGN45

ea.

Colour and type of the nuts can vary.

Waste-Caps GL45 with Safety-Waste-Filter Port



Waste-Caps GL45 are available in blue, green, red, purple and yellow. Please contact us for colored version.

Tubing Ports



1x 1/8"

Part No.
Qty.

SP-W45F1
ea.



1x 1/8"
1x Barbed*

SP-W45F1B1
ea.



1x 1/8"
2x Barbed*

SP-W45F1B2
ea.



1x Barbed*

SP-W45B1
ea.

Tubing Ports



2x 1/8"

Part No.
Qty.

SP-W45F2
ea.



2x 1/8"
1x Barbed*

SP-W45F2B1
ea.



2x 1/8"
2x Barbed*

SP-W45F2B2
ea.



2x Barbed*

SP-W45B2
ea.

Tubing Ports



3x 1/8"

Part No.
Qty.

SP-W45F3
ea.



3x 1/8"
1x Barbed*

SP-W45F3B1
ea.



4x 1/8"

SP-W45F4
ea.



4x 1/8"
1x Barbed*

SP-W45F4B1
ea.

* includes Barbed Tubing Port Fitting for 6-9 mm ID Tubing.

Colour and type of the nuts can vary.

Safety-Waste-Filters, Standard



Size
Service Life Time

Small
3 Months

Part No.
Qty.

SP-FSS
ea.



Medium
6 Months

SP-FSM
ea.



















Large
12 Months

SP-FSL
ea.

More HPLC Waste-Caps
www.bgb-shop.com/waste-caps

Waste-Caps S50 with Safety-Waste-Filter Port

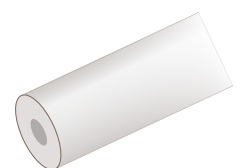
Tubing Ports				
	1x 1/8"	1x 1/8" 1x Barbed*	1x 1/8" 2x Barbed*	1x 1/8" 3x Barbed*
Part No.	SP-W50F1	SP-W50F1B1	SP-W50F1B2	SP-W50F1B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports				
	2x 1/8"	2x 1/8" 1x Barbed*	2x 1/8" 2x Barbed*	2x 1/8" 3x Barbed*
Part No.	SP-W50F2	SP-W50F2B1	SP-W50F2B2	SP-W50F2B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports				
	3x 1/8"	3x 1/8" 1x Barbed*	3x 1/8" 2x Barbed*	3x 1/8" 3x Barbed*
Part No.	SP-W50F3	SP-W50F3B1	SP-W50F3B2	SP-W50F3B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports				
Miscellaneous	-	-	2x 1/8" 1x Barbed* Level Indicator	Waste Canister S50 PP, 5 Liter with Liter Graduation Small Footprint
Part No.	SP-W50F4	SP-W50F5	SP-W50F2B1-I	SP-C50PE5
Qty.	ea.	ea.	ea.	ea.

* includes Barbed Tubing Port Fitting for 6-9mm ID Tubing.

Colour and type of the nuts can vary.




Safety Waste Filter
see page 87



Polymeric Tubing
see page 67

Waste-Caps S55 (DIN 51) with Safety-Waste-Filter Port

Tubing Ports	 1x 1/8"	 1x 1/8" 1x Barbed*	 1x 1/8" 2x Barbed*	 1x 1/8" 3x Barbed*
Part No.	SP-W55F1	SP-W55F1B1	SP-W55F1B2	SP-W55F1B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports	 2x 1/8"	 2x 1/8" 1x Barbed*	 2x 1/8" 2x Barbed*	 2x 1/8" 3x Barbed*
Part No.	SP-W55F2	SP-W55F2B1	SP-W55F2B2	SP-W55F2B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports	 3x 1/8"	 3x 1/8" 1x Barbed*	 3x 1/8" 2x Barbed*	 3x 1/8" 3x Barbed*
Part No.	SP-W55F3	SP-W55F3B1	SP-W55F3B2	SP-W55F3B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports	 4x 1/8"	 3x Barbed*	 1x 1/8" 2x Barbed* Level Indicator	 1x 1/8" 3x Barbed* Level Indicator
Miscellaneous	-	-		
Part No.	SP-W55F4	SP-W55B3	SP-W55F1B2-I	SP-W55F1B3-I
Qty.	ea.	ea.	ea.	ea.

* includes Barbed Tubing Port Fitting for 6-9mm ID Tubing.

Colour and type of the nuts can vary.

More HPLC Waste-Caps
www.bgb-shop.com/waste-caps

Waste-Caps S60/61 (DIN 60) with Safety-Waste-Filter Port

Tubing Ports				
Part No.	SP-W60F1	SP-W60F1B1	SP-W60F1B2	SP-W60F1B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports				
Part No.	SP-W60F2	SP-W60F2B1	SP-W60F2B2	SP-W60F2B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports				
Part No.	SP-W60F3	SP-W60F3B1	SP-W60F3B2	SP-W60F3B3
Qty.	ea.	ea.	ea.	ea.
Tubing Ports				
Part No.	SP-W60F4	SP-W60F5	SP-W60F5B3	SP-W60B4
Qty.	ea.	ea.	ea.	ea.

* includes Barbed Tubing Port Fitting for 6-9 mm ID Tubing.

Colour and type of the nuts can vary.

Waste-Caps B53 (for NALGENE® Bottles & Canister) with Safety-Waste-Filter Port

				
Tubing Ports	1x 1/8" 1x Barbed*	2x 1/8" 1x Barbed*	3x 1/8" 1x Barbed*	3x 1/8"
Part No.	SP-W53F1B1	SP-W53F2B1	SP-W53F3B1	SP-W53F3
Qty.	ea.	ea.	ea.	ea.

Waste-Caps B83 (for NALGENE® Bottles & Canister) with Safety-Waste-Filter Port

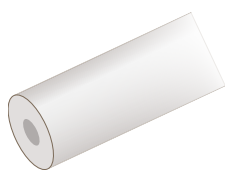
			
Tubing Ports	1x 1/8" 1x Barbed*	2x 1/8" 1x Barbed*	3x 1/8" 1x Barbed*
Part No.	SP-W83F1B1	SP-W83F2B1	SP-W83F3B1
Qty.	ea.	ea.	ea.

* includes Barbed Tubing Port Fitting for 6-9 mm ID Tubing.

Colour and type of the nuts can vary.

Safety-Waste-Filters, Standard





















			
Size	Small	Medium	Large
Service Life Time	3 Months	6 Months	12 Months
Part No.	SP-FSS	SP-FSM	SP-FSL
Qty.	ea.	ea.	ea.



Polymeric Tubing
see page 67

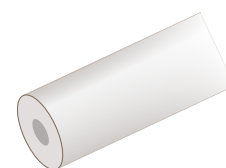
More HPLC Waste-Caps
www.bgb-shop.com/waste-caps

Waste-Caps S90 (DIN 90) with Safety-Waste-Filter Port

Tubing Ports Part No. Qty.					
	1x 1/8"	2x 1/8"	3x 1/8"	4x 1/8"	5x 1/8"
	SP-W90F1	SP-W90F2	SP-W90F3	SP-W90F4	SP-W90F5
	ea.	ea.	ea.	ea.	ea.
Tubing Ports Part No. Qty.					
	6x 1/8"	2x 1/8" 1x Barbed*	2x 1/8" 2x Barbed*	2x 1/8" 3x Barbed*	2x 1/8" 4x Barbed*
	SP-W90F6	SP-W90F2B1	SP-W90F2B2	SP-W90F2B3	SP-W90F2B4
	ea.	ea.	ea.	ea.	ea.
Tubing Ports Part No. Qty.					
	6x 1/8" 2x Barbed*	3x 1/8" 1x Barbed*	3x 1/8" 2x Barbed*	3x 1/8" 3x Barbed*	3x 1/8" 4x Barbed*
	SP-W90F6B2	SP-W90F3B1	SP-W90F3B2	SP-W90F3B3	SP-W90F3B4
	ea.	ea.	ea.	ea.	ea.
Tubing Ports Part No. Qty.					
	1x Barbed*	2x Barbed*	3x Barbed*	4x Barbed*	5x Barbed*
	SP-W90B1	SP-W90B2	SP-W90B3	SP-W90B4	SP-W90B5
	ea.	ea.	ea.	ea.	ea.

* includes Barbed Tubing Port Fitting for 6-9mm ID Tubing.

Colour and type of the nuts can vary.











Polymeric Tubing
see page 67

Safety-Waste-Filters and Adapters

Type & Size	 Safety-Waste-Filter Standard, SMALL	 Safety-Waste-Filter Standard, MEDIUM	 Safety-Waste-Filter Standard, LARGE	
Service Life Time	3 Months	6 Months	12 Months	
Part No.	SP-FSS	SP-FSM	SP-FSL	
Qty.	ea.	ea.	ea.	
Type & Size	 Safety-Waste-Filter Acid Vapor, MEDIUM	 Safety-Waste-Filter Acid Vapor, LARGE	 Safety-Adapter Straight Extension 50 mm for Safety-Waste-Filter Port	 Safety-Adapter 90° Extension 45 mm for Safety-Waste-Filter Port
Service Life Time	3 Months	6 Months		
Part No.	SP-FAM	SP-FAL	SP-AFSE	SP-AF90E
Qty.	ea.	ea.	ea.	ea.
Type & Size	 Safety-Waste-Filter Standard with Indicator	 Safety-Adapter to install Safety-Waste-Filter with Indicator	 Safety-Waste-Filter XL for Barrels	 Safety-Waste-Filter XXL for Barrels
Miscellaneous	requires Adapter 211999			
Part No.	211998-I	211999	SP-FSXL	SP-FSXXL
Qty.	ea.	ea.	ea.	ea.

Barbed Tubing Port Fittings

Material Type for Tubing ID Part No. Qty.				
	PP	PP	PP	PP
	Straight	Straight	Straight	Straight
	3.0-4.0 mm	5.0-6.0 mm	6.0-9.0 mm	9.0-11.0 mm
	SP-BFS34PP	SP-BFS56PP	SP-BFS69PP	SP-BFS911PP
	ea.	ea.	ea.	ea.
Material Type for Tubing ID Part No. Qty.				
	PP	PP	PP	PP
	90° Angled	90° Angled	90° Angled	90° Angled
	3.0-4.0 mm	5.0-6.0 mm	6.0-9.0 mm	9.0-11.0 mm
	SP-BFA34PP	SP-BFA56PP	SP-BFA69PP	SP-BFA911PP
	ea.	ea.	ea.	ea.

Barbed Tubing Connectors



Conical

Part No.	Material	Tubing ID mm	Qty.
SP-AC4280	PP	4.2-8.0 to 4.2-8.0	ea.
SP-AC6565	PP	6.5 to 6.5	ea.
SP-AC1612	PP	10.5-16.0 to 6.5-12.0	ea.
SP-AC1675	PP	10.5-16.0 to 3.0-7.5	ea.
SP-AC7012	PP	7.0-11.0 to 7.0-12.0	ea.
SP-AC1512	PP	11.0-15.0 to 7.0-12.0	ea.

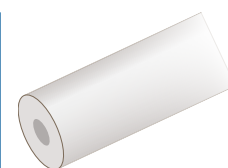


Y-Connector

Part No.	Material	Tubing ID mm	Qty.
SP-AY3PP	PP	3.0	ea.
SP-AY5PP	PP	5.0	ea.
SP-AY7PP	PP	7.0	ea.
SP-AY9PP	PP	9.0	ea.
SP-AY11PP	PP	11.0	ea.

More HPLC Barbed Tubing Port
Fittings and Connectors

www.bgb-shop.com/safety-accessories



Polymeric Tubing
see page 67

Safety Thread Adapters



to GL 45 Caps

Part No.	Material	Thread to Bottle (female)	Thread to Cap (male)	Qty.
SP-A2845PTFE	PTFE	PP28	GL45	ea.
SP-A3245PTFE	PTFE	GL32	GL45	ea.
SP-A3245PP	PP	GL32	GL45	ea.
SP-A3845PTFE	PTFE	GL38	GL45	ea.
SP-A3845PP	PP	GL38	GL45	ea.
SP-A4045PTFE	PTFE	GL40	GL45	ea.
SP-A4045PP	PP	GL40	GL45	ea.
SP-A454545	PP	GL45	2 x GL45	ea.
SP-A4545X4	PP	GL45	4 x GL45	ea.



to different Threads/Caps

Part No.	Material	Thread (female)	Thread (male)	Qty.
SP-A4032PP	PP	GL40	GL32	ea.
SP-A4038PP	PP	GL40	GL38	ea.
SP-A4532PP	PP	GL45	GL32	ea.
SP-A4538PP	PP	GL45	GL38	ea.
SP-A4555PP	PP	GL45	S55	ea.
SP-A5560PP	PP	S55	S60	ea.
SP-A5590PP	PP	S55	S90	ea.
SP-A6090PP	PP	S60	S90	ea.



Safety Funnels

www.bgb-shop.com/safety-funnel

Fittings, Nuts, Ferrules and Plugs for BGB Safety Products



Fittings 1/16"

Part No.	Type	Color	Qty.
SP-NOPBLK16	Fitting One-Piece	Black	pk.5
SP-NOPVIO16	Fitting One-Piece	Purple	pk.5
SP-NBLK16	Nut	Black	pk.10
SP-NBLU16	Nut	Blue	pk.10
SP-NGRE16	Nut	Green	pk.10
SP-NVIO16	Nut	Purple	pk.10
SP-NRED16	Nut	Red	pk.10
SP-NF16	Ferrule 1/16" OD Tubing	Blue	pk.10

Fittings 1/8"

Part No.	Type	Color	Qty.
SP-NOPBLK18	Fitting One-Piece	Black	pk.5
SP-NOPVIO18	Fitting One-Piece	Purple	pk.5
SP-NBLK18	Nut	Black	pk.10
SP-NBLU18	Nut	Blue	pk.10
SP-NGRE18	Nut	Green	pk.10
SP-NVIO18	Nut	Purple	pk.10
SP-NRED18	Nut	Red	pk.10
SP-NF18	Ferrule 1/8" OD Tubing	Yellow	pk.10



Nuts & Ferrules 3/16"

Part No.	Type	Color	Qty.
SP-NWHI316	Nut	White	ea.
SP-NF316	Ferrule	Blue	ea.



Plugs

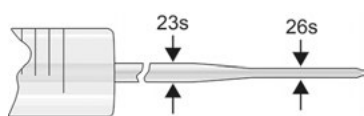
Part No.	Type	Color	Qty.
SP-NP18	for 1/8"-Tubing Port	Black	pk.10
SP-NPFIL	for Safety-Waste-Filter Port	Black	ea.
SP-NPBAR	for Barbed Tubing Port	Black	pk.5
SP-NP14	for 1/4"-Tubing Port	Black	ea.

SETonic Syringes



Technical Syringe Information

23s-26s Dual Gauge Tapered Needle



- ⇒ Split/Splitless or On-Column injections
- ⇒ Versatility without sacrificing durability
- ⇒ More solid needle than regular 26s
- ⇒ Minimizes septum abrasion

23s Gauge Needle



- ⇒ Most durable needle
- ⇒ Merlin MicroSeal™ and standard septum injections
- ⇒ Packed column injections
- ⇒ Split/splitless injections

26s Gauge Needle



- ⇒ Fine gauge offers versatility
- ⇒ On-column injections
- ⇒ Split/splitless injections

Gauge Index Table

Gauge	Nominal OD	Nominal ID	Wall Thickness	Volume
	mm*	mm*	mm*	µL/Inch
26s	0.474	0.127	0.35	0.322
26	0.464	0.260	0.20	1.349
25s	0.515	0.153	0.36	0.464
25	0.515	0.260	0.25	1.349
24	0.566	0.311	0.25	1.930
23s	0.642	0.116	0.53	0.268
23	0.642	0.337	0.30	2.266
22s	0.718	0.168	0.55	0.563
22	0.718	0.413	0.30	3.403
21	0.819	0.514	0.30	5.271
20	0.908	0.603	0.30	7.255
19	1.067	0.686	0.38	9.389

*mm are nominal

Plunger Tips

- PE-HD – with better durability than virginial PTFE when working with saline solutions
- PTFE – gas tight sealing of the plunger tip, for most solvents and chemicals
- PTFE NUB – PTFE compound with highest durability and chemical resistant combined with low electrostatic effects
- SS-Gold coated* – Gold coated stainless steel, developed for use with aggressive solvents (e.g. strong acids)

*regular SS plunger syringes are available as gold coated version on request

Syringe Terminations

FN - Fixed Needle



LT - Luer Tip (with Fixed Needle)



TLL/TLL-X - Teflon (PTFE) Luer Lock



RN - Removable Needle



LT - Luer Tip (without Needle)



1/4"-28 UNF



Needle Tip Styles

Type AS and c



Special conical needle recommended for septum penetration (Autosampler Type).

SGE Hamilton

1 AS

Type a



Beveled needle is recommended for life science applications.

2 4

Type b



Blunt needle for use with HPLC-Injection valves and for sample pipetting.

3 3

Type d



Conical needle with side port is recommended for penetration of septa, thin-gauged vinyls and plastics without coring (Headspace GC).

5 5

SETonic Syringes for Agilent GC Autosampler - Removable Needle



Microsyringes 0.5 µl-10 µl – Needle Tip Style AS, Needle Length 42 mm

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-3030151	0.5 µl	SS (In Needle)	RN	0.64 mm (23s)	ea.
SET-3030152	1 µl	SS (In Needle)	RN	0.64 mm (23s)	ea.
SET-3030129	5 µl	SS	RN	0.47 mm (26s)	ea.
SET-3030130	5 µl	SS	RN	0.64-0.47 mm (23s-26s)	ea.
SET-3030138	10 µl	SS	RN	0.64 mm (23s)	ea.
SET-3030137	10 µl	SS	RN	0.64-0.47 mm (23s-26s)	ea.
SET-3030166	10 µl	PTFE	RN	0.64 mm (23s)	ea.
SET-3030165	10 µl	PTFE	RN	0.64-0.47 mm (23s-26s)	ea.

SETonic Syringes for Agilent GC Autosampler - Fixed Needle



Microsyringes 5 µl-100 µl – Needle Tip Style AS, Needle Length 42 mm

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-3030128	5 µl	SS	FN	0.64 mm (23s)	ea.
SET-3030133	5 µl	SS	FN	0.64 mm (23s)	pk.6
SET-3030127	5 µl	SS	FN	0.64-0.47 mm (23s-26s)	ea.
SET-3030132	5 µl	SS	FN	0.64-0.47 mm (23s-26s)	pk.6
SET-3030126	5 µl	SS	FN	0.47 mm (26s)	ea.
SET-3030131	5 µl	SS	FN	0.47 mm (26s)	pk.6
SET-3030136	10 µl	SS	FN	0.64 mm (23s)	ea.
SET-3030141	10 µl	SS	FN	0.64 mm (23s)	pk.6
SET-3030135	10 µl	SS	FN	0.64-0.47 mm (23s-26s)	ea.
SET-3030140	10 µl	SS	FN	0.64-0.47 mm (23s-26s)	pk.6
SET-3030134	10 µl	SS	FN	0.47 mm (26s)	ea.
SET-3030139	10 µl	SS	FN	0.47 mm (26s)	pk.6
SET-3030163	10 µl	PTFE	FN	0.47 mm (26s)	ea.
SET-3030167	10 µl	PTFE	FN	0.47 mm (26s)	pk.6
SET-3030164	10 µl	PTFE	FN	0.64-0.47 mm (23s-26s)	ea.
SET-3030168	10 µl	PTFE	FN	0.64-0.47 mm (23s-26s)	pk.6
SET-3030169	25 µl	PTFE	FN	0.64 mm (23s)	ea.
SET-3030174	25 µl	PTFE	FN	0.64-0.47 mm (23s-26s)	ea.
SET-3030170	50 µl	PTFE	FN	0.64 mm (23s)	ea.
SET-3030175	50 µl	PTFE	FN	0.64-0.47 mm (23s-26s)	ea.
SET-3030171	100 µl	PTFE	FN	0.64 mm (23s)	ea.
SET-3030176	100 µl	PTFE	FN	0.64-0.47 mm (23s-26s)	ea.



Syringes 10 µl-5 ml – Needle Tip Style b, Needle Length 51 mm – **Type LC**

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-LMK.2106424	10 µl	SS	FN	0.72 mm (G22s)	ea.
SET-LMK.2606416	10 µl	PTFE	FN	0.72 mm (G22s) with knop	ea.
SET-LMK.2620517	25 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-LMK.2620517-2P	25 µl	PTFE	FN	0.72 mm (G22s)	pk.2
SET-LMK.2620517-6P	25 µl	PTFE	FN	0.72 mm (G22s)	pk.6
SET-LMK.2620615	50 µl	PTFE	FN	0.72 mm (G22)	ea.
SET-LMK.2620615-2P	50 µl	PTFE	FN	0.72 mm (G22)	pk.2
SET-LMK.2620615-6P	50 µl	PTFE	FN	0.72 mm (G22)	pk.6
SET-LMK.2620719	100 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-LMK.2620719-2P	100 µl	PTFE	FN	0.72 mm (G22s)	pk.2
SET-LMK.2620719-6P	100 µl	PTFE	FN	0.72 mm (G22s)	pk.6
SET-LMK.2620721	100 µl	PTFE	FN	0.72 mm (G22)	ea.
SET-LMK.2620721-2P	100 µl	PTFE	FN	0.72 mm (G22)	pk.2
SET-LMK.2620721-6P	100 µl	PTFE	FN	0.72 mm (G22)	pk.6
SET-LMK.2620821	250 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-LMK.2620908	500 µl	PTFE	FN ¹⁾	0.72 mm (G22)	ea.
SET-LMK.2620011	1 ml	PTFE LT	FN ²⁾	0.72 mm (G22)	ea.
SET-LMK.2620054	5 ml	PTFE LT	FN ²⁾	1.10 mm (G19)	ea.

1) Needle Length 56 mm 2) Needle Length 57 mm

L-MARK® Syringes for CTC Combi PAL GC Autosampler

Syringes 1.2 µl-500 µl – Needle Tip Style AS, Needle Length 51 mm – **Type GC**

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-LMK.2220001	1.2 µl	SS	FN	0.48 mm (G26P)	ea.
SET-LMK.2220001-6P	1.2 µl	SS	FN	0.48 mm (G26P)	pk.6
SET-LMK.2106303	5 µl	SS	FN	0.64 mm (G23s)	ea.
SET-LMK.2106302	5 µl	SS	FN	0.47 mm (G26s)	ea.
SET-LMK.2106403	10 µl	SS	FN	0.64 mm (G23s)	ea.
SET-LMK.2106426	10 µl	SS	FN	0.64-0.47 mm (23s-26s)	ea.
SET-LMK.2106416	10 µl	SS	FN	0.47 mm (G26s)	ea.
SET-LMK.2106416-2P	10 µl	SS	FN	0.47 mm (G26s)	pk.2
SET-LMK.2106416-6P	10 µl	SS	FN	0.47 mm (G26s)	pk.6
SET-LMK.2606407	10 µl	PTFE	FN	0.47 mm (G26s)	ea.
SET-LMK.2606403	10 µl	PTFE	FN	0.64 mm (G23s)	ea.
SET-LMK.2620706	100 µl	PTFE	FN	0.47 mm (G26s)	ea.
SET-LMK.2620706-2P	100 µl	PTFE	FN	0.47 mm (G26s)	pk.2
SET-LMK.2620706-6P	100 µl	PTFE	FN	0.47 mm (G26s)	pk.6
SET-LMK.2620803	250 µl	PTFE	FN	0.47 mm (G26)	ea.
SET-LMK.2620903	500 µl	PTFE	FN	0.47 mm (G26)	ea.

Syringes 10 µl-1 ml – Needle Tip Style AS, Needle Length 57 mm – **Type GC**

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-LMK.2116405	10 µl	SS	FN	0.64 mm (23s)	ea.
SET-LMK.2116404	10 µl	SS	FN	0.47 mm (26s)	ea.
SET-LMK.2116406	10 µl	SS	FN ¹⁾	0.47 mm (26s)	ea.
SET-LMK.2616405	10 µl	PTFE	FN	0.64 mm (23s)	ea.
SET-LMK.2616404	10 µl	PTFE	FN	0.47 mm (26s)	ea.
SET-LMK.2616703	100 µl	PTFE	FN	0.47 mm (26s)	ea.
SET-LMK.2616803	250 µl	PTFE	FN	0.47 mm (26s)	ea.
SET-LMK.2616804	250 µl	PTFE	FN ¹⁾	0.47 mm (26s)	ea.
SET-LMK.2616003	1 ml	PTFE	FN	0.64 mm (23s)	ea.

1) Needle Length 85 mm

Syringes 10 µl-1 ml – Needle Tip Style b, Needle Length 57 mm – **Type LC**

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-LMK.2616422	10 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-LMK.2616502C	25 µl	PTFE	FN	0.72 mm (G22s) coated ²⁾	ea.
SET-LMK.2616702C	100 µl	PTFE	FN	0.72 mm (G22s) coated ²⁾	ea.
SET-LMK.2616704C	100 µl	PTFE	FN	0.72 mm (G22) coated ²⁾	ea.
SET-LMK.2616822	250 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-LMK.2616922	500 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-LMK.2616012	1 ml	PTFE	FN	0.72 mm (G22s)	ea.

2) hydrophobic, oleophobic coated syringe needle

SETonic Syringes for Spark Holland Autosamplers

The SETonic Syringes for Spark Holland Autosamplers work with the following manufacturers autosamplers:

- Spark Holland Midas, Triathlon, Endurance and Alias
- Beckmann Coulter 508
- Antec AS 100 and AS 110
- Grace/Alltech Model 580
- Dionex ESA Model 542, 540 and 540MT
- Agilent Pro Star



Part No.	Volume	Plunger Type	Syringe Termination	Qty.
SET-3010083	25 µl	PTFE	1/4" -28 UNF	ea.
SET-3010084	50 µl	PTFE	1/4" -28 UNF	ea.
SET-3010085	100 µl	PTFE	1/4" -28 UNF	ea.
SET-3010086	250 µl	PTFE	1/4" -28 UNF	ea.
SET-3010087	500 µl	PTFE	1/4" -28 UNF	ea.
SET-3010088	1 ml	PTFE	1/4" -28 UNF	ea.
SET-3010089	2.5 ml	PTFE	1/4" -28 UNF	ea.

Gas Tight TLL/TLL-X Syringes – Luer Lock



TLL Syringes 25 µl-25 ml, Standard Plunger

Part No.	Volume	Plunger Type	Termination	Qty.
SET-3010299	25 µl	PTFE	Luer Lock	ea.
SET-3010300	50 µl	PTFE	Luer Lock	ea.
SET-3010317	100 µl	PTFE	Luer Lock	ea.
SET-3010318	250 µl	PTFE	Luer Lock	ea.
SET-3010319	500 µl	PTFE	Luer Lock	ea.
SET-3010175	1 ml	PTFE	Luer Lock	ea.
SET-3010176	2.5 ml	PTFE	Luer Lock	ea.
SET-3010177	5 ml	PTFE	Luer Lock	ea.
SET-3010179	25 ml	PTFE	Luer Lock	ea.

TLL-X Syringes 25 µl-10 ml, Plunger with 6-32UNC inside thread to allow attachment to drive arm mechanism

Part No.	Volume	Plunger Type	Termination	Qty.
SET-3010262	25 µl	PTFE	Luer Lock	ea.
SET-3010263	50 µl	PTFE	Luer Lock	ea.
SET-3010264	100 µl	PTFE	Luer Lock	ea.
SET-3010265	250 µl	PTFE	Luer Lock	ea.
SET-3010266	500 µl	PTFE	Luer Lock	ea.
SET-3010267	1 ml	PTFE	Luer Lock	ea.
SET-3010268	2.5 ml	PTFE	Luer Lock	ea.
SET-3010269	5 ml	PTFE	Luer Lock	ea.
SET-3010270	10 ml	PTFE	Luer Lock	ea.

Gas Tight Microsyringes – Fixed Needle



Syringes 5 µl-500 µl - Needle Tip Style a*, Needle Length 51 mm

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-3030241	5 µl	PTFE	FN	0.47 mm (G26s)	ea.
SET-3030242	10 µl	PTFE	FN	0.47 mm (G26s)	ea.
SET-3030243	25 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-3030244	50 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-3030245	100 µl	PTFE	FN	0.72 mm (G22s)	ea.
SET-3030246	250 µl	PTFE	FN	0.72 mm (G22)	ea.
SET-3030247	500 µl	PTFE	FN	0.72 mm (G22)	ea.

* Also available in other pointstyles. For more info visit www.bgb-shop.com/setonic.



Syringes 1 ml-10 ml

Part No.	Volume	Needle	OD (Gauge)	Needle Length	Point Style	Qty.
SET-3030249	1 ml	FN	0.72 mm (G22)	51 mm	a	ea.
SET-3030248	1 ml	FN	0.64 mm (G23)	51 mm	a	ea.
SET-3030186*	1 ml	FN	0.64 mm (G23)	51 mm	d	ea.
SET-3030250	2.5 ml	FN	0.72 mm (G22s)	51 mm	a	ea.
SET-3030154	2.5 ml	FN	0.72 mm (G22)	51 mm	a	ea.
SET-3030187*	2.5 ml	FN	0.64 mm (G23)	51 mm	d	ea.
SET-3030251	5 ml	FN	0.72 mm (G22s)	51 mm	a	ea.
SET-3030155	5 ml	FN	0.72 mm (G22)	51 mm	a	ea.
SET-3030188*	5 ml	FN	0.64 mm (G23)	56 mm	d	ea.
SET-3030252	10 ml	FN	0.72 mm (G22s)	51 mm	a	ea.
SET-3030156	10 ml	FN	0.72 mm (G22)	51 mm	a	ea.

* High temperature syringes up to 120°C.

Also available in other pointstyles. For more info visit www.bgb-shop.com/setonic.

Gas Tight Syringes – Removable Needle



Microsyringes 5 µl-10 ml - Needle Tip Style a*, Needle Length 51 mm

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-3030544	5 µl	PTFE	RN	0.47 mm (G26s)	ea.
SET-3030676	10 µl	PTFE	RN	0.47 mm (G26s)	ea.
SET-3030604	25 µl	PTFE	RN	0.72 mm (G22s)	ea.
SET-3030605	50 µl	PTFE	RN	0.72 mm (G22s)	ea.
SET-3030606	100 µl	PTFE	RN	0.72 mm (G22s)	ea.
SET-3030366	250 µl	PTFE	RN	0.72 mm (G22s)	ea.
SET-3030607	500 µl	PTFE	RN	0.72 mm (G22)	ea.
SET-3030368	1 ml	PTFE	RN	0.72 mm (G22)	ea.
SET-3030672	2.5 ml	PTFE	RN	0.72 mm (G22)	ea.
SET-3030673	5 ml	PTFE	RN	0.72 mm (G22)	ea.
SET-3030674	10 ml	PTFE	RN	0.72 mm (G22)	ea.

* Also available in other pointstyles. For more info visit www.bgb-shop.com/setonic.

Replacement Needles – Needle Tip Style a*, Needle Length 51 mm



Part No.	for Syringe Volume	OD (Gauge)	Qty.
SET-3050072	5 µl	0.47 mm (G26s)	pk.3
SET-3050022	10 µl	0.47 mm (G26s)	pk.3
SET-3050179	25 µl–10 ml	0.72 mm (G22)	pk.3
SET-3050036	25 µl–10 ml	0.72 mm (G22s)	pk.3

* Also available in other pointstyles. For more info visit www.bgb-shop.com/setonic.



Syringes Fixed Needle 5 µl-500 µl - Needle Tip Style a*, Needle Length 51 mm

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-3030205	5 µl	SS	FN	0.47 mm (G26s)	ea.
SET-3030206	10 µl	SS	FN	0.47 mm (G26s)	ea.
SET-3030207	25 µl	SS	FN	0.72 mm (G22s)	ea.
SET-3030208	50 µl	SS	FN	0.72 mm (G22s)	ea.
SET-3030209	100 µl	SS	FN	0.72 mm (G22s)	ea.
SET-3030210	250 µl	SS	FN	0.72 mm (G22)	ea.
SET-3030211	500 µl	SS	FN	0.72 mm (G22)	ea.

* Also available in other pointstyles. For more info visit www.bgb-shop.com/setonic.



Syringes Removable Needle 5 µl-500 µl – Needle Tip Style a*, Needle Length 51 mm

Part No.	Volume	Plunger Type	Needle	OD (Gauge)	Qty.
SET-3030389	5 µl	SS	RN	0.47 mm (G26s)	ea.
SET-3030298	10 µl	SS	RN	0.47 mm (G26s)	ea.
SET-3030299	25 µl	SS	RN	0.72 mm (G22s)	ea.
SET-3030300	50 µl	SS	RN	0.72 mm (G22s)	ea.
SET-3030301	100 µl	SS	RN	0.72 mm (G22s)	ea.
SET-3030302	250 µl	SS	RN	0.72 mm (G22)	ea.
SET-3030303	500 µl	SS	RN	0.72 mm (G22)	ea.

* Also available in other pointstyles. For more info visit www.bgb-shop.com/setonic.

Replacement Needles – Needle Tip Style a*, Needle Length 51mm

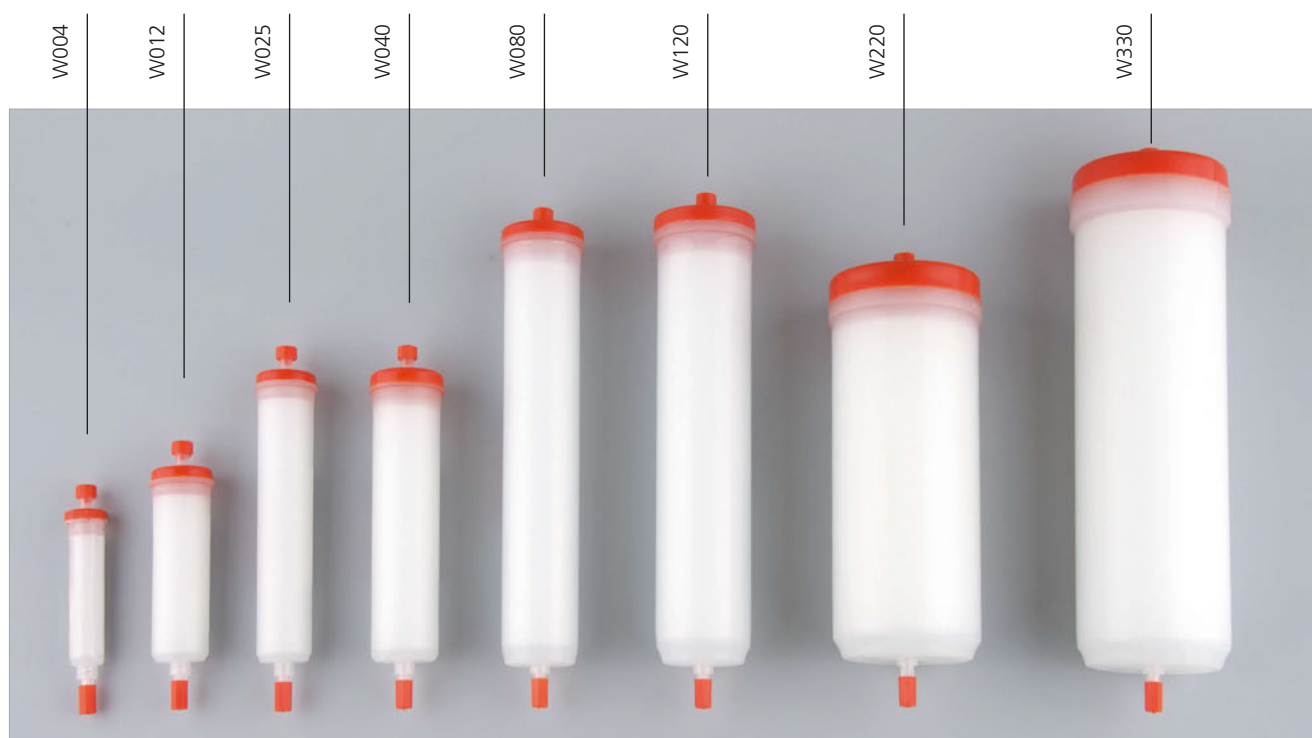
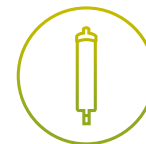


Part No.	for Syringe Volume	OD (Gauge)	Qty.
SET-3050072	5 µl	0.47 mm (G26s)	pk.3
SET-3050022	10 µl	0.47 mm (G26s)	pk.3
SET-3050179	25 µl–10 ml	0.72 mm (G22)	pk.3
SET-3050036	25 µl–10 ml	0.72 mm (G22s)	pk.3

* Also available in other pointstyles. For more info visit www.bgb-shop.com/setonic.

BGB Purification – Cartridge Hardware

Standard Sizes (Spin-Welded Technology)



Hardware Parameters

Hardware Type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits Polyethylene	50 µm Particle Size	30 µm Particle Size
W004	12.4 mm	56 mm	5.1 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W012	21.4 mm	73 mm	19.7 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W025	21.4 mm	123.5 mm	33.3 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W040	26.7 mm	117.6 mm	49.4 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W080	31.2 mm	185 mm	106 ml	24.0 bar (350 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W120	38.6 mm	189 mm	165.8 ml	20.5 bar (300 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W220	61.4 mm	139.5 mm	309.6 ml	20.5 bar (300 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W330	61.4 mm	199.2 mm	442.1 ml	17.0 bar (250 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm

Large-Scale Purification



Hardware Parameters

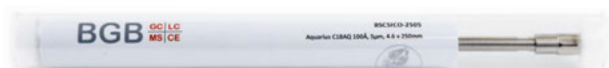
Hardware Type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits Polyethylene	50 µm Particle Size	30 µm Particle Size
S0800	78.2 mm	313.3 mm	1128 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
S1600	103.8 mm	353.7 mm	2244 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
S3000	127.5 mm	418.0 mm	4000 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm

Analytical & Preparative HPLC Columns



BGB analytical & preparative HPLC columns have been designed to offer you the easiest way to develop your reversed phase methods and to scale-up your purifications with strictly the same material in term of stationary phase, particle size and pore size. All bonded phases are available in classical stainless steel analytical HPLC columns (4.6 x 150 mm and 4.6 x 250 mm), preparative HPLC columns (I.D. from 21.2 to 50 mm) and plastic flash cartridges (4 g to 3 kg of phase) to offer you a large choice of possibilities in term of development and scale-up.

Because of the use of standard 10–32 fittings, BGB HPLC columns are compatible with all HPLC systems on the market.



Features include

- High quality SS analytical columns with dimensions of 4.6 x 150 mm and/or 4.6 x 250 mm.
- Preparative HPLC columns with I.D. from 21.2 mm to 50.0 mm.
- Strictly similar bonded phases as those used for our flash cartridges for easy scale-up.
- Available in Scorpius C18, Aquarius C18AQ, Taurus C18T, Taurus C8T and Taurus C4T.
- Dedicated Taurus 300 Å wide pore materials for peptides and proteins purification.
- Particle size of 5 µm, 10 µm, 15 µm and 30 µm.
- Compatible with all HPLC systems on the market.

Column parameters

Hardware	Thread	Inner Diameter	Length	Max. Pressure	Frits
Analytical	10–32	4.6 mm	150 mm	480 bar (7'000 psi)	2 µm
			250 mm		
Semi preparative	10–32	21.2 mm	150 mm	400 bar (6'000 psi)	2 µm
			250 mm		
Preparative	10–32	30.0 mm 50.0 mm	150 mm	400 bar (6'000 psi)	2 µm
			250 mm		

Column certificate

All BGB HPLC columns are individually tested to ensure a high quality and reproducibility from column to column and lot to lot. Each column is delivered with its own analysis report and wear a sticker indicating part number, column type, dimensions, serial number and flow direction.

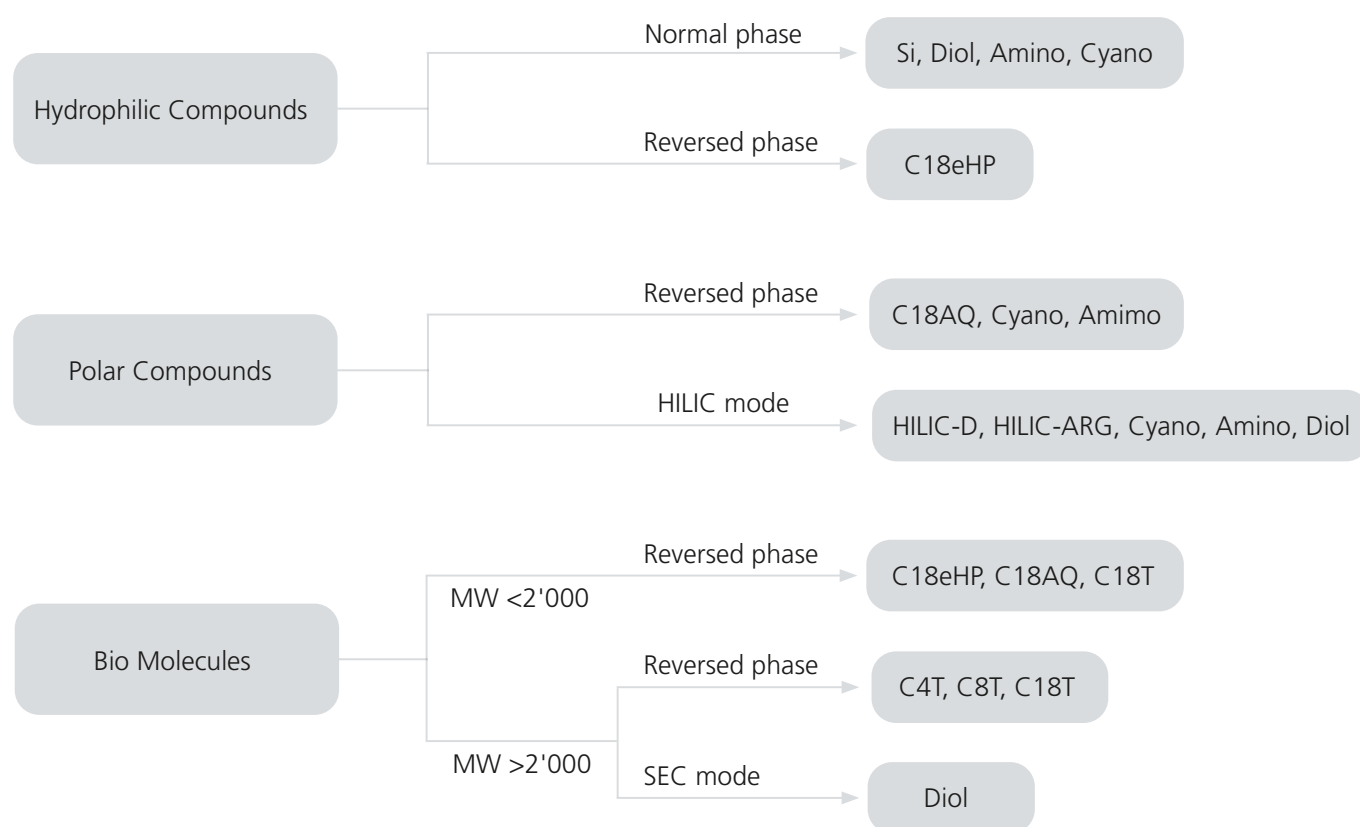


Bulk Material

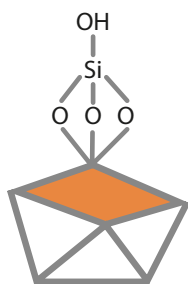
Additionally to our HPLC columns and our flash cartridges, BGB Analytik proposes also the possibility to order the spherical bulk materials bonded phases for Scorpius C18, Aquarius C18AQ, Taurus C18T, Taurus C8T and Taurus C4T. In boxes of 100 g or 1 kg, all these phases are available in 5 μm , 10 μm , 15 μm or 30 μm particle size. Combined with our empty flash cartridge portfolio, it offers you the possibility to pack your own column or to have the right phase to make your dry load. It allows you also the possibility to pack your own preparative columns with all self-packing instruments available on the market.



BGB Selection Guide








BGB Scorpius Silica



Phase:	Irregular Ultra-Pure Silica	
Particle Size:	30 μm	50 μm
Pore Size:	60 \AA	60 \AA
Surface Area:	500 m^2/g	500 m^2/g
Endcapped:	n.a.	n.a.
Carbon Load:	n.a.	n.a.
pH Range:	2–8	2–8




BGB Scorpius Silica (Si) Flash Cartridges

Part No.	Description	Qty.
BSS2AF-W004	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 4 g	pk.20
BSS2AF-W012	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 12 g	pk.18
BSS2AF-W025	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 25 g	pk.12
BSS2AF-W040	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 40 g	pk.12
BSS2AF-W080	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 80 g	pk.10
BSS2AF-W120	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 120 g	pk.10
BSS2AF-W220	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 220 g	pk.6 
BSS2AF-W330	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 330 g	pk.5 
BSS2AF-S0800	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 800 g	ea. 
BSS2AF-S1600	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 1.6 kg	ea. 
BSS2AF-S3000	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 30 μm (25–40 μm), 3 kg	ea. 



Part No.	Description	Qty.
BSS2CF-W004	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 4 g	pk.20
BSS2CF-W012	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 12 g	pk.18
BSS2CF-W025	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 25 g	pk.12
BSS2CF-W040	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 40 g	pk.12
BSS2CF-W080	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 80 g	pk.10
BSS2CF-W120	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 120 g	pk.10
BSS2CF-W220	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 220 g	pk.6 
BSS2CF-W330	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 330 g	pk.5 
BSS2CF-S0800	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 800 g	ea. 
BSS2CF-S1600	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 1.6 kg	ea. 
BSS2CF-S3000	BGB Scorpius Flash Cartridge, Silica 60 \AA , Irregular 50 μm (40–63 μm), 3 kg	ea. 

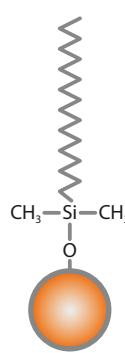


 **ATTENTION:** It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



Empty Flash column hardware
see page 117

BGB Scorpius C18e-HP

	Phase:	Spherical Ultra-Pure C18 monomeric bonded				
	Particle Size:	5 μm	10 μm	15 μm	30 μm	50 μm
	Pore Size:	100 Å	100 Å	100 Å	100 Å	120 Å
	Surface Area:	320 m ² /g	320 m ² /g	320 m ² /g	320 m ² /g	300 m ² /g
	Endcapped:	yes	yes	yes	yes	yes
	Carbon Load:	17 %	17 %	17 %	17 %	17 %
	pH Range:	2–8	2–8	2–8	2–8	2–8



BGB Scorpius C18e-HP Flash Cartridges

Part No.	Description	Qty.
BSE1AF-W004	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 5.4 g	pk.2
BSE1AF-W012	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 20 g	ea.
BSE1AF-W025	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 33 g	ea.
BSE1AF-W040	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 48 g	ea.
BSE1AF-W080	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 105 g	ea.
BSE1AF-W120	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 155 g	ea.
BSE1AF-W220	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 300 g	ea. ⚠
BSE1AF-W330	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 420 g	ea. ⚠
BSE1AF-S0800	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 1.08 kg	ea. ⚠
BSE1AF-S1600	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 2.14 kg	ea. ⚠
BSE1AF-S3000	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 μm, 3.83 kg	ea. ⚠



Part No.	Description	Qty.
BSC1CF-W004	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 4.5 g	pk.2
BSC1CF-W012	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 18 g	ea.
BSC1CF-W025	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 28 g	ea.
BSC1CF-W040	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 40 g	ea.
BSC1CF-W080	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 90 g	ea.
BSC1CF-W120	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 130 g	ea.
BSC1CF-W220	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 245 g	ea. ⚠
BSC1CF-W330	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 350 g	ea. ⚠
BSC1CF-S0800	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 900 g	ea. ⚠
BSC1CF-S1600	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 1.78 kg	ea. ⚠
BSC1CF-S3000	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 μm, 3.2 kg	ea. ⚠



⚠ ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



Adapters for Luer Ports
see page 77

BGB Scorpion C18e-HP Bulk Material



Part No.	Description	Qty.
BSE1IB-K1	BGB Scorpion Bulk Material, C18e-HP 100 Å, 5 µm, 100 g	ea.
BSE1IB-K4	BGB Scorpion Bulk Material, C18e-HP 100 Å, 5 µm, 1 kg	ea.
BSE1JB-K1	BGB Scorpion Bulk Material, C18e-HP 100 Å, 10 µm, 100 g	ea.
BSE1JB-K4	BGB Scorpion Bulk Material, C18e-HP 100 Å, 10 µm, 1 kg	ea.
BSE1KB-K1	BGB Scorpion Bulk Material, C18e-HP 100 Å, 15 µm, 100 g	ea.
BSE1KB-K4	BGB Scorpion Bulk Material, C18e-HP 100 Å, 15 µm, 1 kg	ea.
BSE1AB-K1	BGB Scorpion Bulk Material, C18e-HP 100 Å, 30 µm, 100 g	ea.
BSE1AB-K4	BGB Scorpion Bulk Material, C18e-HP 100 Å, 30 µm, 1 kg	ea.

BGB Scorpion C18e-HP HPLC Columns

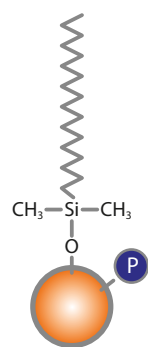


Part No.	Description	Qty.
BSE1ICO-1505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 5 µm, 4.6 x 150 mm	ea.
BSE1ICO-2505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 5 µm, 4.6 x 250 mm	ea.
BSE1ICO-1520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 5 µm, 21.2 x 150 mm	ea.
BSE1ICO-2520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 5 µm, 21.2 x 250 mm	ea.
BSE1JCO-1505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 4.6 x 150 mm	ea.
BSE1JCO-2505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 4.6 x 250 mm	ea.
BSE1JCO-1520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 21.2 x 150 mm	ea.
BSE1JCO-2520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 21.2 x 250 mm	ea.
BSE1JCO-1530	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 30.0 x 150 mm	ea.
BSE1JCO-2530	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 30.0 x 250 mm	ea.
BSE1JCO-1550	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 50.0 x 150 mm	ea.
BSE1JCO-2550	BGB Scorpion HPLC Column, C18e-HP 100 Å, 10 µm, 50.0 x 250 mm	ea.
BSE1KCO-1505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 4.6 x 150 mm	ea.
BSE1KCO-2505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 4.6 x 250 mm	ea.
BSE1KCO-1520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 21.2 x 150 mm	ea.
BSE1KCO-2520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 21.2 x 250 mm	ea.
BSE1KCO-1530	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 30.0 x 150 mm	ea.
BSE1KCO-2530	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 30.0 x 250 mm	ea.
BSE1KCO-1550	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 50.0 x 150 mm	ea.
BSE1KCO-2550	BGB Scorpion HPLC Column, C18e-HP 100 Å, 15 µm, 50.0 x 250 mm	ea.
BSE1ACO-1505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 4.6 x 150 mm	ea.
BSE1ACO-2505	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 4.6 x 250 mm	ea.
BSE1ACO-1520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 21.2 x 150 mm	ea.
BSE1ACO-2520	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 21.2 x 250 mm	ea.
BSE1ACO-1530	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 30.0 x 150 mm	ea.
BSE1ACO-2530	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 30.0 x 250 mm	ea.
BSE1ACO-1550	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 50.0 x 150 mm	ea.
BSE1ACO-2550	BGB Scorpion HPLC Column, C18e-HP 100 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware
see page 117






BGB Aquarius C18AQ (Polar Endcapped)








Phase:	Spherical Ultra-Pure C18 monomeric bonded polar endcapped			
Particle Size:	5 μm	10 μm	15 μm	30 μm
Pore Size:	100 \AA	100 \AA	100 \AA	100 \AA
Surface Area:	320 m^2/g	320 m^2/g	320 m^2/g	320 m^2/g
Endcapped:	yes	yes	yes	yes
Carbon Load:	10%	10%	10%	10%
pH Range:	2–8	2–8	2–8	2–8




BGB Aquarius C18AQ Flash Cartridges

Part No.	Description	Qty.
BAC5KF-W004	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 5.4 g	pk.2
BAC5KF-W012	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 20 g	ea.
BAC5KF-W025	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 33 g	ea.
BAC5KF-W040	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 48 g	ea.
BAC5KF-W080	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 105 g	ea.
BAC5KF-W120	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 155 g	ea.
BAC5KF-W220	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 290 g	ea. 
BAC5KF-W330	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 410 g	ea. 
BAC5KF-S0800	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 1.05 kg	ea. 
BAC5KF-S1600	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 2.09 kg	ea. 
BAC5KF-S3000	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 15 μm , 3.75 kg	ea. 



Part No.	Description	Qty.
BAC5AF-W004	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 5.4 g	pk.2
BAC5AF-W012	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 20 g	ea.
BAC5AF-W025	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 33 g	ea.
BAC5AF-W040	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 48 g	ea.
BAC5AF-W080	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 105 g	ea.
BAC5AF-W120	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 155 g	ea.
BAC5AF-W220	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 300 g	ea. 
BAC5AF-W330	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 420 g	ea. 
BAC5AF-S0800	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 1.08 kg	ea. 
BAC5AF-S1600	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 2.14 kg	ea. 
BAC5AF-S3000	BGB Aquarius Flash Cartridge, C18AQ 100 \AA , Spherical 30 μm , 3.83 kg	ea. 



 **ATTENTION:** It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Aquarius C18AQ Bulk Material

Part No.	Description	Qty.
BAC5IB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 5 µm, 100 g	ea.
BAC5IB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 5 µm, 1 kg	ea.
BAC5JB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 10 µm, 100 g	ea.
BAC5JB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 10 µm, 1 kg	ea.
BAC5KB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 15 µm, 100 g	ea.
BAC5KB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 15 µm, 1 kg	ea.
BAC5AB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 30 µm, 100 g	ea.
BAC5AB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 30 µm, 1 kg	ea.



BGB Aquarius C18AQ HPLC Columns

Part No.	Description	Qty.
BAC5ICO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 4.6 x 150 mm	ea.
BAC5ICO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 4.6 x 250 mm	ea.
BAC5ICO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 21.2 x 150 mm	ea.
BAC5ICO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 21.2 x 250 mm	ea.
BAC5JCO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 4.6 x 150 mm	ea.
BAC5JCO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 4.6 x 250 mm	ea.
BAC5JCO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 21.2 x 150 mm	ea.
BAC5JCO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 21.2 x 250 mm	ea.
BAC5JCO-1530	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 30.0 x 150 mm	ea.
BAC5JCO-2530	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 30.0 x 250 mm	ea.
BAC5JCO-1550	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 50.0 x 150 mm	ea.
BAC5JCO-2550	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 50.0 x 250 mm	ea.
BAC5KCO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 4.6 x 150 mm	ea.
BAC5KCO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 4.6 x 250 mm	ea.
BAC5KCO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 21.2 x 150 mm	ea.
BAC5KCO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 21.2 x 250 mm	ea.
BAC5KCO-1530	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 30.0 x 150 mm	ea.
BAC5KCO-2530	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 30.0 x 250 mm	ea.
BAC5KCO-1550	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 50.0 x 150 mm	ea.
BAC5KCO-2550	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 50.0 x 250 mm	ea.
BAC5ACO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 4.6 x 150 mm	ea.
BAC5ACO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 4.6 x 250 mm	ea.
BAC5ACO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 21.2 x 150 mm	ea.
BAC5ACO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 21.2 x 250 mm	ea.
BAC5ACO-1530	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 30.0 x 150 mm	ea.
BAC5ACO-2530	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 30.0 x 250 mm	ea.
BAC5ACO-1550	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 50.0 x 150 mm	ea.
BAC5ACO-2550	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware
see page 117

BGB Taurus C18T Wide Pore



Phase:	Spherical Ultra-Pure Wide Pore C18 polymeric bonded			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m ² /g	90 m ² /g	90 m ² /g	90 m ² /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	10%	10%	10%	10%
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7

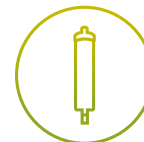


BGB Taurus C18T Flash Cartridges

Part No.	Description	Qty.
BTW6KF-W004	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 4.5g	pk.2
BTW6KF-W012	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 16g	ea.
BTW6KF-W025	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 26g	ea.
BTW6KF-W040	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 38g	ea.
BTW6KF-W080	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 82g	ea.
BTW6KF-W120	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 120g	ea.
BTW6KF-W220	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 225g	ea. ⚠
BTW6KF-W330	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 15 µm, 320g	ea. ⚠



Part No.	Description	Qty.
BTW6AF-W004	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 4.5g	pk.2
BTW6AF-W012	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 16g	ea.
BTW6AF-W025	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 26g	ea.
BTW6AF-W040	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 38g	ea.
BTW6AF-W080	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 82g	ea.
BTW6AF-W120	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 120g	ea.
BTW6AF-W220	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 225g	ea. ⚠
BTW6AF-W330	BGB Taurus Flash Cartridge, C18T 300Å, Spherical 30 µm, 320g	ea. ⚠



⚠ **ATTENTION:** It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Taurus C18T Bulk Material

Part No.	Description	Qty.
BTW6IB-K1	BGB Taurus Bulk Material, C18T 300 Å, 5 µm, 100 g	ea.
BTW6IB-K4	BGB Taurus Bulk Material, C18T 300 Å, 5 µm, 1 kg	ea.
BTW6JB-K1	BGB Taurus Bulk Material, C18T 300 Å, 10 µm, 100 g	ea.
BTW6JB-K4	BGB Taurus Bulk Material, C18T 300 Å, 10 µm, 1 kg	ea.
BTW6KB-K1	BGB Taurus Bulk Material, C18T 300 Å, 15 µm, 100 g	ea.
BTW6KB-K4	BGB Taurus Bulk Material, C18T 300 Å, 15 µm, 1 kg	ea.
BTW6AB-K1	BGB Taurus Bulk Material, C18T 300 Å, 30 µm, 100 g	ea.
BTW6AB-K4	BGB Taurus Bulk Material, C18T 300 Å, 30 µm, 1 kg	ea.



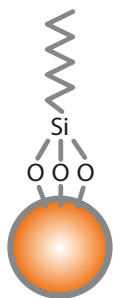
BGB Taurus C18T HPLC Columns

Part No.	Description	Qty.
BTW6ICO-1505	BGB Taurus HPLC Column, C18T 300 Å, 5 µm, 4.6 x 150 mm	ea.
BTW6ICO-2505	BGB Taurus HPLC Column, C18T 300 Å, 5 µm, 4.6 x 250 mm	ea.
BTW6ICO-1520	BGB Taurus HPLC Column, C18T 300 Å, 5 µm, 21.2 x 150 mm	ea.
BTW6ICO-2520	BGB Taurus HPLC Column, C18T 300 Å, 5 µm, 21.2 x 250 mm	ea.
BTW6JCO-1505	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 4.6 x 150 mm	ea.
BTW6JCO-2505	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 4.6 x 250 mm	ea.
BTW6JCO-1520	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 21.2 x 150 mm	ea.
BTW6JCO-2520	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 21.2 x 250 mm	ea.
BTW6JCO-1530	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 30.0 x 150 mm	ea.
BTW6JCO-2530	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 30.0 x 250 mm	ea.
BTW6JCO-1550	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 50.0 x 150 mm	ea.
BTW6JCO-2550	BGB Taurus HPLC Column, C18T 300 Å, 10 µm, 50.0 x 250 mm	ea.
BTW6KCO-1505	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 4.6 x 150 mm	ea.
BTW6KCO-2505	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 4.6 x 250 mm	ea.
BTW6KCO-1520	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 21.2 x 150 mm	ea.
BTW6KCO-2520	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 21.2 x 250 mm	ea.
BTW6KCO-1530	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 30.0 x 150 mm	ea.
BTW6KCO-2530	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 30.0 x 250 mm	ea.
BTW6KCO-1550	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 50.0 x 150 mm	ea.
BTW6KCO-2550	BGB Taurus HPLC Column, C18T 300 Å, 15 µm, 50.0 x 250 mm	ea.
BTW6ACO-1505	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 4.6 x 150 mm	ea.
BTW6ACO-2505	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 4.6 x 250 mm	ea.
BTW6ACO-1520	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 21.2 x 150 mm	ea.
BTW6ACO-2520	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 21.2 x 250 mm	ea.
BTW6ACO-1530	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 30.0 x 150 mm	ea.
BTW6ACO-2530	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 30.0 x 250 mm	ea.
BTW6ACO-1550	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 50.0 x 150 mm	ea.
BTW6ACO-2550	BGB Taurus HPLC Column, C18T 300 Å, 30 µm, 50.0 x 250 mm	ea.



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BGB Taurus C8T Wide Pore



Phase:	Spherical Ultra-Pure Wide Pore C8 polymeric bonded			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m ² /g	90 m ² /g	90 m ² /g	90 m ² /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	5 %	5 %	5 %	5 %
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7



BGB Taurus C8T Flash Cartridges

Part No.	Description	Qty.
BTW0KF-W004	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 4.5 g	pk.2
BTW0KF-W012	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 16 g	ea.
BTW0KF-W025	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 26 g	ea.
BTW0KF-W040	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 38 g	ea.
BTW0KF-W080	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 82 g	ea.
BTW0KF-W120	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 120 g	ea.
BTW0KF-W220	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 225 g	ea.
BTW0KF-W330	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 320 g	ea.



Part No.	Description	Qty.
BTW0AF-W004	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 4.5 g	pk.2
BTW0AF-W012	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 16 g	ea.
BTW0AF-W025	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 26 g	ea.
BTW0AF-W040	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 38 g	ea.
BTW0AF-W080	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 82 g	ea.
BTW0AF-W120	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 120 g	ea.
BTW0AF-W220	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 225 g	ea.
BTW0AF-W330	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 320 g	ea.



ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Taurus C8T Bulk Material

Part No.	Description	Qty.
BTW0IB-K1	BGB Taurus Bulk Material, C8T 300 Å, 5 µm, 100 g	ea.
BTW0IB-K4	BGB Taurus Bulk Material, C8T 300 Å, 5 µm, 1 kg	ea.
BTW0JB-K1	BGB Taurus Bulk Material, C8T 300 Å, 10 µm, 100 g	ea.
BTW0JB-K4	BGB Taurus Bulk Material, C8T 300 Å, 10 µm, 1 kg	ea.
BTW0KB-K1	BGB Taurus Bulk Material, C8T 300 Å, 15 µm, 100 g	ea.
BTW0KB-K4	BGB Taurus Bulk Material, C8T 300 Å, 15 µm, 1 kg	ea.
BTW0AB-K1	BGB Taurus Bulk Material, C8T 300 Å, 30 µm, 100 g	ea.
BTW0AB-K4	BGB Taurus Bulk Material, C8T 300 Å, 30 µm, 1 kg	ea.



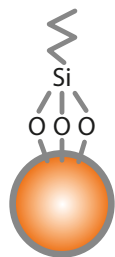
BGB Taurus C8T HPLC Columns

Part No.	Description	Qty.
BTW0ICO-1505	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 4.6 x 150 mm	ea.
BTW0ICO-2505	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 4.6 x 250 mm	ea.
BTW0ICO-1520	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 21.2 x 150 mm	ea.
BTW0ICO-2520	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 21.2 x 250 mm	ea.
BTW0JCO-1505	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 4.6 x 150 mm	ea.
BTW0JCO-2505	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 4.6 x 250 mm	ea.
BTW0JCO-1520	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 21.2 x 150 mm	ea.
BTW0JCO-2520	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 21.2 x 250 mm	ea.
BTW0JCO-1530	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 30.0 x 150 mm	ea.
BTW0JCO-2530	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 30.0 x 250 mm	ea.
BTW0JCO-1550	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 50.0 x 150 mm	ea.
BTW0JCO-2550	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 50.0 x 250 mm	ea.
BTW0KCO-1505	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 4.6 x 150 mm	ea.
BTW0KCO-2505	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 4.6 x 250 mm	ea.
BTW0KCO-1520	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 21.2 x 150 mm	ea.
BTW0KCO-2520	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 21.2 x 250 mm	ea.
BTW0KCO-1530	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 30.0 x 150 mm	ea.
BTW0KCO-2530	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 30.0 x 250 mm	ea.
BTW0KCO-1550	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 50.0 x 150 mm	ea.
BTW0KCO-2550	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 50.0 x 250 mm	ea.
BTW0ACO-1505	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 4.6 x 150 mm	ea.
BTW0ACO-2505	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 4.6 x 250 mm	ea.
BTW0ACO-1520	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 21.2 x 150 mm	ea.
BTW0ACO-2520	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 21.2 x 250 mm	ea.
BTW0ACO-1530	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 30.0 x 150 mm	ea.
BTW0ACO-2530	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 30.0 x 250 mm	ea.
BTW0ACO-1550	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 50.0 x 150 mm	ea.
BTW0ACO-2550	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 50.0 x 250 mm	ea.



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BGB Taurus C4T Wide Pore



Phase:	Spherical Ultra-Pure Wide Pore C4 polymeric bonded			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m ² /g	90 m ² /g	90 m ² /g	90 m ² /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	3 %	3 %	3 %	3 %
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7



BGB Taurus C4T Flash Cartridges

Part No.	Description	Qty.
BTW1KF-W004	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 4.5 g	pk.2
BTW1KF-W012	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 16 g	ea.
BTW1KF-W025	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 26 g	ea.
BTW1KF-W040	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 38 g	ea.
BTW1KF-W080	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 82 g	ea.
BTW1KF-W120	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 120 g	ea.
BTW1KF-W220	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 225 g	ea.
BTW1KF-W330	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 µm, 320 g	ea.



Part No.	Description	Qty.
BTW1AF-W004	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 4.5 g	pk.2
BTW1AF-W012	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 16 g	ea.
BTW1AF-W025	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 26 g	ea.
BTW1AF-W040	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 38 g	ea.
BTW1AF-W080	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 82 g	ea.
BTW1AF-W120	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 120 g	ea.
BTW1AF-W220	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 225 g	ea.
BTW1AF-W330	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 µm, 320 g	ea.



ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Taurus C4T Bulk Material

Part No.	Description	Qty.
BTW1IB-K1	BGB Taurus Bulk Material, C4T 300 Å, 5 µm, 100 g	ea.
BTW1IB-K4	BGB Taurus Bulk Material, C4T 300 Å, 5 µm, 1 kg	ea.
BTW1JB-K1	BGB Taurus Bulk Material, C4T 300 Å, 10 µm, 100 g	ea.
BTW1JB-K4	BGB Taurus Bulk Material, C4T 300 Å, 10 µm, 1 kg	ea.
BTW1KB-K1	BGB Taurus Bulk Material, C4T 300 Å, 15 µm, 100 g	ea.
BTW1KB-K4	BGB Taurus Bulk Material, C4T 300 Å, 15 µm, 1 kg	ea.
BTW1AB-K1	BGB Taurus Bulk Material, C4T 300 Å, 30 µm, 100 g	ea.
BTW1AB-K4	BGB Taurus Bulk Material, C4T 300 Å, 30 µm, 1 kg	ea.



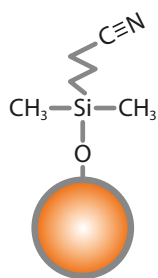
BGB Taurus C4T HPLC Columns

Part No.	Description	Qty.
BTW1ICO-1505	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 4.6 x 150 mm	ea.
BTW1ICO-2505	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 4.6 x 250 mm	ea.
BTW1ICO-1520	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 21.2 x 150 mm	ea.
BTW1ICO-2520	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 21.2 x 250 mm	ea.
BTW1JCO-1505	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 4.6 x 150 mm	ea.
BTW1JCO-2505	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 4.6 x 250 mm	ea.
BTW1JCO-1520	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 21.2 x 150 mm	ea.
BTW1JCO-2520	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 21.2 x 250 mm	ea.
BTW1JCO-1530	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 30.0 x 150 mm	ea.
BTW1JCO-2530	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 30.0 x 250 mm	ea.
BTW1JCO-1550	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 50.0 x 150 mm	ea.
BTW1JCO-2550	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 50.0 x 250 mm	ea.
BTW1KCO-1505	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 4.6 x 150 mm	ea.
BTW1KCO-2505	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 4.6 x 250 mm	ea.
BTW1KCO-1520	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 21.2 x 150 mm	ea.
BTW1KCO-2520	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 21.2 x 250 mm	ea.
BTW1KCO-1530	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 30.0 x 150 mm	ea.
BTW1KCO-2530	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 30.0 x 250 mm	ea.
BTW1KCO-1550	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 50.0 x 150 mm	ea.
BTW1KCO-2550	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 50.0 x 250 mm	ea.
BTW1ACO-1505	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 4.6 x 150 mm	ea.
BTW1ACO-2505	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 4.6 x 250 mm	ea.
BTW1ACO-1520	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 21.2 x 150 mm	ea.
BTW1ACO-2520	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 21.2 x 250 mm	ea.
BTW1ACO-1530	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 30.0 x 150 mm	ea.
BTW1ACO-2530	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 30.0 x 250 mm	ea.
BTW1ACO-1550	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 50.0 x 150 mm	ea.
BTW1ACO-2550	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware
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BGB Scorpius Cyano and Diol

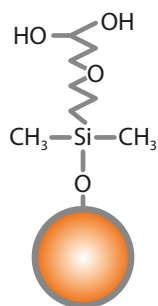


Phase:	Spherical Ultra-Pure Cyano (CN) bonded
Particle Size:	30 μm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5.5 %
pH Range:	2–8



BGB Scorpius Cyano (CN) Flash Cartridges

Part No.	Description	Qty.
BSCNAF-W004	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 5.4 g	pk.2
BSCNAF-W012	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 20 g	ea.
BSCNAF-W025	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 33 g	ea.
BSCNAF-W040	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 48 g	ea.
BSCNAF-W080	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 105 g	ea.
BSCNAF-W120	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 155 g	ea.
BSCNAF-W220	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 300 g	ea. ⚠
BSCNAF-W330	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 420 g	ea. ⚠

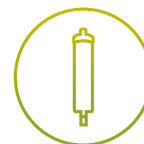


Phase:	Spherical Ultra-Pure Diol bonded
Particle Size:	30 μm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5 %
pH Range:	2–8



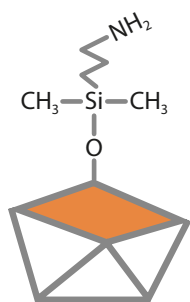
BGB Scorpius Diol (OH) Flash Cartridges

Part No.	Description	Qty.
BSOHAF-W004	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 5.4 g	pk.2
BSOHAF-W012	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 20 g	ea.
BSOHAF-W025	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 33 g	ea.
BSOHAF-W040	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 48 g	ea.
BSOHAF-W080	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 105 g	ea.
BSOHAF-W120	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 155 g	ea.
BSOHAF-W220	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 300 g	ea. ⚠
BSOHAF-W330	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 420 g	ea. ⚠



⚠ ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Scorpius Amino



Phase:	Irregular Ultra-Pure Amino bonded
Particle Size:	50 µm
Pore Size:	60 Å
Surface Area:	500 m ² /g
Endcapped:	yes
Carbon Load:	5 %
pH Range:	2–8



BGB Scorpius Amino (NH₂) Flash Cartridges

Part No.	Description	Qty.
BSNHAF-W004	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 5.9 g	pk.2
BSNHAF-W012	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 23 g	ea.
BSNHAF-W025	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 38 g	ea.
BSNHAF-W040	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 55 g	ea.
BSNHAF-W080	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 122 g	ea.
BSNHAF-W120	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 180 g	ea.
BSNHAF-W220	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 340 g	ea. ⚠
BSNHAF-W330	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 Å, Irregular 50 µm (40–63 µm), 475 g	ea. ⚠



⚠ ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

Luer Adapter Kit



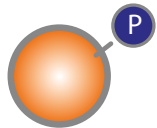
These adapters (stainless steel Luer Lock inlet and PEEK Luer outlet) have to be used with BGB column hardware S800, S1600 and S3000. They can be connected to any kind of Luer connection.

Part No.	Description	Qty.
BSLK	BGB Luer adapter kit (inlet & outlet) for S800, S1600 and S3000 cartridge hardware	ea.





Empty Flash column hardware
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BGB Aquarius HILIC-D and HILIC-ARG

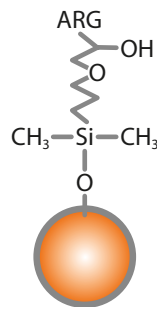
	Phase:	Spherical Ultra-Pure proprietary bonded
	Particle Size:	30 µm
	Pore Size:	100 Å
	Surface Area:	320 m ² /g
	Endcapped:	yes
	Carbon Load:	5%
	pH Range:	2–8



BGB Aquarius HILIC-D Flash Cartridges



Part No.	Description	Qty.
BAHDAF-W004	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 5.4 g	pk.2
BAHDAF-W012	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 20 g	ea.
BAHDAF-W025	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 33 g	ea.
BAHDAF-W040	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 48 g	ea.
BAHDAF-W080	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 105 g	ea.
BAHDAF-W120	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 155 g	ea.
BAHDAF-W220	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 300 g	ea. 
BAHDAF-W330	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 420 g	ea. 




	Phase:	Spherical Ultra-Pure Arginine Bonded Silica
	Particle Size:	30 µm
	Pore Size:	100 Å
	Surface Area:	320 m ² /g
	Endcapped:	yes
	Carbon Load:	8%
	pH Range:	2–8



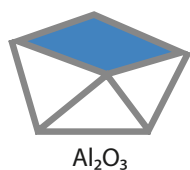
BGB Aquarius HILIC-ARG Flash Cartridges

Part No.	Description	Qty.
BAHAAF-W004	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 5.4 g	pk.2
BAHAAF-W012	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 20 g	ea.
BAHAAF-W025	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 33 g	ea.
BAHAAF-W040	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 48 g	ea.
BAHAAF-W080	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 105 g	ea.
BAHAAF-W120	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 155 g	ea.
BAHAAF-W220	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 300 g	ea. 
BAHAAF-W330	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30 µm, 420 g	ea. 



 **ATTENTION:** It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Scorpius Alumina Acidic, Basic and Neutral



Phase:	Irregular Ultra-Pure Alumina
Particle Size:	60 μm
Pore Size:	55 \AA
Surface Area:	155 m^2/g
Endcapped:	n.a.
Carbon Load:	n.a.



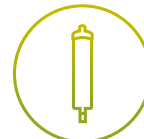
BGB Scorpius Alumina Acidic Flash Cartridges

Part No.	Description	Qty.
BSAADF-W004	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 8 g	pk.20
BSAADF-W012	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 24 g	pk.18
BSAADF-W025	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 50 g	pk.12
BSAADF-W040	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 80 g	pk.12
BSAADF-W080	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 160 g	pk.10
BSAADF-W120	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 240 g	pk.10
BSAADF-W220	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 440 g	pk.6
BSAADF-W330	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 660 g	pk.5
BSAADF-S0800	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 1.6 kg	ea.
BSAADF-S1600	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 3.2 kg	ea.
BSAADF-S3000	BGB Scorpius Flash Cart., Alumina Acidic 55 \AA , Irregular 60 μm (50-75 μm), 6 kg,	ea.



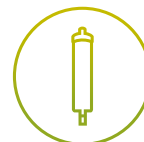
BGB Scorpius Alumina Basic Flash Cartridges

Part No.	Description	Qty.
BSABDF-W004	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 8 g	pk.20
BSABDF-W012	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 24 g	pk.18
BSABDF-W025	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 50 g	pk.12
BSABDF-W040	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 80 g	pk.12
BSABDF-W080	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 160 g	pk.10
BSABDF-W120	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 240 g	pk.10
BSABDF-W220	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 440 g	pk.6
BSABDF-W330	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 660 g	pk.5
BSABDF-S0800	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 1.6 kg	ea.
BSABDF-S1600	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 3.2 kg	ea.
BSABDF-S3000	BGB Scorpius Flash Cart., Alumina Basic 55 \AA , Irregular 60 μm (50-75 μm), 6 kg,	ea.



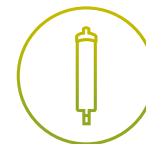
BGB Scorpius Alumina Neutral Flash Cartridges

Part No.	Description	Qty.
BSANDF-W004	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 8 g	pk.20
BSANDF-W012	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 24 g	pk.18
BSANDF-W025	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 50 g	pk.12
BSANDF-W040	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 80 g	pk.12
BSANDF-W080	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 160 g	pk.10
BSANDF-W120	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 240 g	pk.10
BSANDF-W220	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 440 g	pk.6
BSANDF-W330	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 660 g	pk.5
BSANDF-S0800	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 1.6 kg	ea.
BSANDF-S1600	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 3.2 kg	ea.
BSANDF-S3000	BGB Scorpius Flash Cart., Alumina Neutral 55 \AA , Irregular 60 μm (50-75 μm), 6 kg,	ea.



ATTENTION: It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB EZPack empty Flash Cartridges



BGB EZPack empty Flash Cartridges offer users convenience for self column packing but are also suitable for solid injection. In case of miscibility problems of compounds, this technic, also called dry load, is commonly used by chemists.

As for the complete range of BGB Flash Cartridges, BGB EZPack empty Flash Cartridges are done with an extra wall thickness. Reinforced body allows to work safely at higher pressure and ensure that the column is able to withstand the pressure capability of modern flash systems.

Features

- Body in pharmaceutical-grade polypropylene
- Reinforced cartridge, pressure up to 13.8 bar (200 psi)
- Luer/Luer Lock connectors are compatible with most flash chromatography systems
- Flexible sample loading
- 0 to 40°C

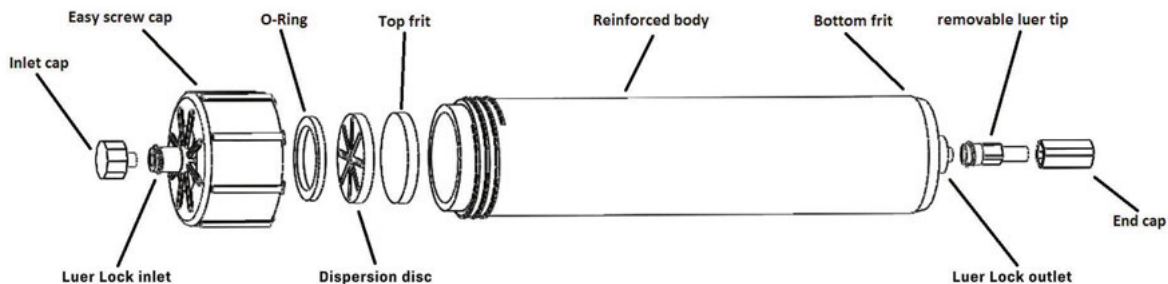


Hardware Parameters

Hardware Type	Inner Diameter**	Bed Length	Max. Pressure	Top Frit	Bottom Frit*
S0004	12.8 mm	60 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0012	21.4 mm	76 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0025	21.6 mm	126 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0040	26.8 mm	125 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0060	36.6 mm	99 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0080	31.2 mm	193 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0102	60.4 mm	61 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm
S0120	36.6 mm	204 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0220	60.6 mm	131 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm
S0330	60.6 mm	187 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm

* All frits are made of polyethylene (PE).

** Note that cartridges are slightly conical and that the given ID is an average value.



BGB EZPack empty Flash Cartridges

Part No.	Description	Qty.
BDL000F-S0004	EZPack Empty Flash Cartridge, Closed Top, complete, 4 g	pk.20
BDL000F-S0012	EZPack Empty Flash Cartridge, Closed Top, complete, 12 g	pk.18
BDL000F-S0025	EZPack Empty Flash Cartridge, Closed Top, complete, 25 g	pk.12
BDL000F-S0040	EZPack Empty Flash Cartridge, Closed Top, complete, 40 g	pk.12
BDL000F-S0060	EZPack Empty Flash Cartridge, Closed Top, complete, 60 g	pk.12
BDL000F-S0080	EZPack Empty Flash Cartridge, Closed Top, complete, 80 g	pk.10
BDL000F-S0102	EZPack Empty Flash Cartridge, Closed Top, complete, 100 g (Ver. II)	pk.6
BDL000F-S0120	EZPack Empty Flash Cartridge, Closed Top, complete, 120 g	pk.10
BDL000F-S0220	EZPack Empty Flash Cartridge, Closed Top, complete, 220 g	pk.6
BDL000F-S0330	EZPack Empty Flash Cartridge, Closed Top, complete, 330 g	pk.5



BGB EZPack top and bottom Frits*



Part No.	Description	Qty.
BTFEZPPE-S0004	Top Frit, PE, for EZPack Empty Flash Cartridge, 4 g	pk.100
BTFEZPPE-S0012	Top Frit, PE, for EZPack Empty Flash Cartridge, 12 g	pk.100
BTFEZPPE-S0025	Top Frit, PE, for EZPack Empty Flash Cartridge, 25 g	pk.100
BTFEZPPE-S0040	Top Frit, PE, for EZPack Empty Flash Cartridge, 40 g	pk.100
BTFEZPPE-S0060	Top Frit, PE, for EZPack Empty Flash Cartridge, 60 g	pk.30
BTFEZPPE-S0080	Top Frit, PE, for EZPack Empty Flash Cartridge, 80 g	pk.30
BTFEZPPE-S0102	Top Frit, PE, for EZPack Empty Flash Cartridge 100 g (Ver. II)	pk.30
BTFEZPPE-S0120	Top Frit, PE, for EZPack Empty Flash Cartridge, 120 g	pk.30
BTFEZPPE-S0220	Top Frit, PE, for EZPack Empty Flash Cartridge, 220 g	pk.30
BTFEZPPE-S0330	Top Frit, PE, for EZPack Empty Flash Cartridge, 330 g	pk.30

Part No.	Description	Qty.
BBFEZPPE-S0004	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 4 g	pk.100
BBFEZPPE-S0012	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 12 g	pk.100
BBFEZPPE-S0025	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 25 g	pk.100
BBFEZPPE-S0040	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 40 g	pk.100
BBFEZPPE-S0060	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 60 g	pk.30
BBFEZPPE-S0080	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 80 g	pk.30
BBFEZPPE-S0100	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 100 g	pk.30
BBFEZPPE-S0120	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 120 g	pk.30
BBFEZPPE-S0220	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 220 g	pk.30
BBFEZPPE-S0330	Bottom Frit, PE, for EZPack Empty Flash Cartridge, 330 g	pk.30

* All frits are made of polyethylene (PE).

O-Rings and Insertion Tools

BGB EZPack O-Rings, Silicone & FEP



Part No.	Description	Qty.
BOREZPSI-S0004	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 4 g	pk.100
BOREZPSI-S0012	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 12 g	pk.100
BOREZPSI-S0025	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 25 g	pk.100
BOREZPSI-S0040	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 40 g	pk.100
BOREZPSI-S0060	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 60 g	pk.30
BOREZPSI-S0080	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 80 g	pk.30
BOREZPSI-S0100	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 100 g	pk.30
BOREZPSI-S0120	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 120 g	pk.30
BOREZPSI-S0220	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 220 g	pk.30
BOREZPSI-S0330	O-Ring, Silicone, for EZPack Empty Flash Cartridge, 330 g	pk.30



Part No.	Description	Qty.
BOREZPFEP-S0004	O-Ring, FEP, for EZPack Empty Flash Cartridge, 4 g	pk.50
BOREZPFEP-S0012	O-Ring, FEP, for EZPack Empty Flash Cartridge, 12 g	pk.50
BOREZPFEP-S0025	O-Ring, FEP, for EZPack Empty Flash Cartridge, 25 g	pk.50
BOREZPFEP-S0040	O-Ring, FEP, for EZPack Empty Flash Cartridge, 40 g	pk.50
BOREZPFEP-S0060	O-Ring, FEP, for EZPack Empty Flash Cartridge, 60 g	pk.20
BOREZPFEP-S0080	O-Ring, FEP, for EZPack Empty Flash Cartridge, 80 g	pk.20
BOREZPFEP-S0100	O-Ring, FEP, for EZPack Empty Flash Cartridge, 100 g	pk.10
BOREZPFEP-S0120	O-Ring, FEP, for EZPack Empty Flash Cartridge, 120 g	pk.20
BOREZPFEP-S0220	O-Ring, FEP, for EZPack Empty Flash Cartridge, 220 g	pk.10
BOREZPFEP-S0330	O-Ring, FEP, for EZPack Empty Flash Cartridge, 330 g	pk.10

Frit Insertion Tools



Part No.	Description	Qty.
BDL000TO-001	Frit Insertion Tool for type S0004	ea.
BDL000TO-002	Frit Insertion Tool for type S0012, S0025 and S0040	ea.
BDL000TO-003	Frit Insertion Tool for type S0060, S0080 and S0120	ea.
BDL000TO-004	Frit Insertion Tool for type S0100, S0220 and S0330	ea.

BGB EZPackXL empty Flash Cartridges

BGB EZPackXL empty flash cartridges offer an innovative column design convenient for manual assembly and to better meet the needs of chemists for large size solid loading samples. Several adaptors for different tubings with various outer diameters (1/4", 3/16" and 1/8") are available to connect the cartridges to the most common flash chromatography systems used on the market. The reusable part of BGB large size empty cartridges is mainly composed of the stainless-steel connection cap which can be used for a long time. The disposable parts mainly include the polypropylene column body, the frits and the sealing gaskets.

Features

- Innovative column design for convenient manual assembly
- Available in 5 sizes of 800g, 1.6Kg, 3.0Kg, 5.0Kg and 7.0Kg
- Reinforced polypropylene cartridge body with a max pressure of 6.9 bar (100 psi)
- Various adaptors available for different OD tubings
- Compatible with any flash system

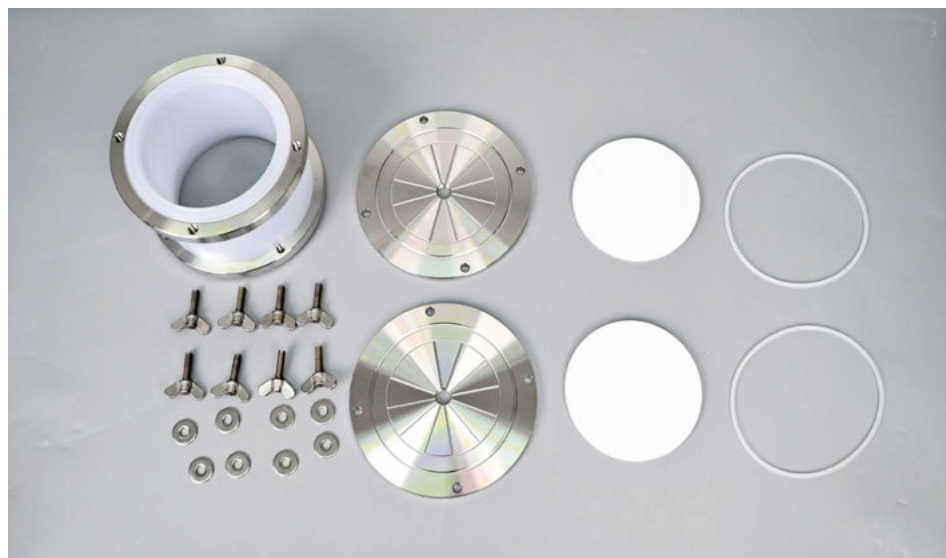


Hardware Parameters

Hardware	Inner Diameter	Bed Length	Frit*
SK08	127 mm	140 mm	20–25 µm
SK16	127 mm	250 mm	20–25 µm
SK30	127 mm	440 mm	20–25 µm
SK50	127 mm	692 mm	20–25 µm
SK70	127 mm	1000 mm	20–25 µm

* All frits are made of polyethylene (PE).

BGB EZPackXL empty flash cartridge version III is composed of 1 polypropylene plastic tube, 2 stainless steel caps, 8 stainless steel butterfly screws, 2 stainless steel retaining rings, 2 polyethylene frits and 2 O-Rings.



Part No.	Description	Qty.
BDL000F-SK081B	EZPackXL Empty Flash Cartridge (Ver. III), Closed Top, complete, 800 g	ea.
BDL000F-SK161B	EZPackXL Empty Flash Cartridge (Ver. III), Closed Top, complete, 1.6 kg	ea.
BDL000F-SK301B	EZPackXL Empty Flash Cartridge (Ver. III), Closed Top, complete, 3.0 kg	ea.
BDL000F-SK501B	EZPackXL Empty Flash Cartridge (Ver. III), Closed Top, complete, 5.0 kg	ea.
BDL000F-SK701B	EZPackXL Empty Flash Cartridge (Ver. III), Closed Top, complete, 7.0 kg	ea.

BGB EZPackXL Polypropylene Column Bodies

Part No.	Description	Qty.
BEMPT-SK081B	Column Body, PP, for EZPackXL Empty Flash Cartridge (Ver. III), 800 g	ea.
BEMPT-SK161B	Column Body, PP, for EZPackXL Empty Flash Cartridge (Ver. III), 1.6 kg	ea.
BEMPT-SK301B	Column Body, PP, for EZPackXL Empty Flash Cartridge (Ver. III), 3.0 kg	ea.
BEMPT-SK501B	Column Body, PP, for EZPackXL Empty Flash Cartridge (Ver. III), 5.0 kg	ea.
BEMPT-SK701B	Column Body, PP, for EZPackXL Empty Flash Cartridge (Ver. III), 7.0 kg	ea.

Other accessories

Part No.	Description	Qty.
BUFEZPPE-SK0871	Universal Frit, PE, for EZPackXL Empty Flash Cartridge (Ver. III)	ea.
BOREZSI-SK0871	O-Ring, Silicone, for EZPackXL Empty Flash Cartridge (Ver. III)	ea.
BCNXK-SK0871	Connection Kit, for EZPackXL Empty Flash Cartridge (Ver. III)	ea.
BDL000TO-007	Insertion Tool for BGB EZPackXL empty Flash Cartridge (Ver. III) type SK08, SK16, SK30, SK50 & SK70	ea.
BADPTPK18	Adapter, PEEK, for 1/8" OD Tube, for EZPackXL Empty Flash Cartridge (Ver. III)	pk.2
BADPTPK316	Adapter, PEEK, for 3/16" OD Tube, for EZPackXL Empty Flash Cartridge (Ver. III)	pk.2
BADPTPK14	Adapter, PEEK, for 1/4" OD Tube, for EZPackXL Empty Flash Cartridge (Ver. III)	pk.2

Trademarks of Other Manufacturers

The trademarks listed below and referred to herein are the property of the corresponding listed entities.

Advanced Green 3	Chromatography Research Supplies	Nano Filter Vial	Scientific Plastic Products, Inc.
Agilent	Agilent Technologies, Inc.	Nylon 66	E.I. du Pont de Nemours and Company
Alltech	Alltech Associates, Inc.	PAL	CTC Analytics AG
Antec	Antec Leyden B.V.	PEEK	Victrex plc
CTC Analytics	CTC Analytics AG	PerfectPeak	Mott Corporation
Delrin	E.I. du Pont de Nemours and Company	PerkinElmer	PerkinElmer, Inc.
DIN	Deutsches Institut für Normung e.V.	Polymicro	Molex, LLC, USA
DIONEX	Dionex Co.	PTFE	E.I. du Pont de Nemours and Company
DuPont	E.I. du Pont de Nemours and Company	Pyrex	Dow Corning
EPA	European Patent Organisation	Septa BTO	Chromatography Research Supplies
FocusLiner	SGE, Incorporated	SGE	SGE, Inc.
GRACE	W.R. Grace & Co.-Conn.	Shimadzu	Shimadzu Co.
Hamilton	Hamilton Co.	SINGLE StEP	Scientific Plastic Products, Inc.
L-Mark	LMK Properties Limited	Spark Holland	Spark Holland B.V.
Marathon	Chromatography Research Supplies	Swagelok	Swagelok Co.
MEGA FV	Scientific Plastic Products, Inc.	Teflon	The Chemours Company FC
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Mininert	Valco Instruments Co.	Viton	The Chemours Company FC
NALGENE	Nalge Nunc International Co.		

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Acronyms

AS	Autosampler	GC	Gas Chromatography	PI	Polyimid
BTO	Bleed and Temperature Optimized	GF	Glass Fiber	POM	Polyoxymethylene, Polyacetal
CA	Cellulose Acetate	HPLC	High Pressure Liquid Chromatography	PP	Polypropylene
CE	Capillary Electrophoresis	IC	Ion Chromatography	PPS	Polyphenylene sulfid
CME	Cellulose Mixed Esters	ID	Inner Diameter	PTFE	Polytetrafluoroethylene
CO2	Carbon Dioxide	LC	Liquid Chromatography	PTV	Programmed Temperature Vaporizer
CTFE	Chlorotrifluoroethylene	LT	Luer Tip	PVDF	Polyvinylidene difluoride
DIN	Deutsche Industry Norm	MS	Mass Spectrometry	RC	Regenerated Cellulose
EPA	Environmental Protection Agency	OD	Outer Diameter	RN	Removable Needle
EPDM	Ethylene Propylene Diene Monomer	PA	Polyamid	Silicone	Polysiloxane
ETFE	Etyhltrifluoroethylene	PE	Polyethylene	SS	Stainless Steel
FEP	Fluorinated Ethylenepropylene	PE-HD	Polyethylene high density	TPX	Polymethylpentene
FFKM	Perfluorinated Rubber	PEEK	Polyetheretherketone	UGS	Universal Guard System
FN	Fixed Needle	PES	Polyethersulfone		
FS	Fused Silica	PFA	Perfluoroalkoxy		

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Benelux: BGB Analytik Benelux B.V. • Drielandendreef 42-44 • 3845 CA Harderwijk • Phone +31 341 700270 • Fax +31 341 700271 • sales.benelux@bgb-analytik.com
France: BGB Analytik France S.A.S. • 81 Vie de l'Etraz • 01630 St. Jean de Gonville • Phone +33 450 488567 • Fax +33 450 562378 • sales.fr@bgb-analytik.com
Switzerland: BGB Analytik AG • Rohrmattstrasse 4 • 4461 Böckten • Phone +41 61 991 00 46 • Fax +41 61 991 00 25 • sales@bgb-analytik.com
Turkey: BGB Analytik Laboratuvar Malzemeleri Ticaret LTD.ŞTİ • Starport Residence • Yenişehir Mah. Osmanlı Bulvarı. • Sümbül Sok. No:10, Daire: 193 • 34912 Kurtköy, Pendik, İstanbul • Phone +90 2169092048 • sales.tr@bgb-analytik.com
USA: BGB Analytik USA LLC • 8407 F Richmond Hwy • Alexandria, VA 22309 • Phone 1-703-780-1500 • Fax 1-703-991-9131 • sales.usa@bgb-analytik.com