



BGB Flash Cartridges

- Ultra-pure silica-based material
- High-performance spherical 30 µm C18, CN, Diol & HILIC
- Pressure up to 27 bar (400 psi)
- Pharmaceutical-grade polypropylene body
- Compatible with all instruments on the market



BGB® Flash Cartridges

are ultra-pure silica-based flash cartridges with tight particle size distribution and high surface area. Available in 50µm and 30µm particle size for difficult separation. Pressure-rated up to 27 bar (400psi) for high flow rate and fast purification. Reduction of purification time by 40-60%. More concentrated fractions for easy evaporation and less solvent consumption.

Features include

- 100% guaranteed leak-free.
- Body in pharmaceutical-grade polypropylene.
- Closed-top spin-welded technology for standard hardware sizes. Pressure up to 27 bar (400 psi).
- Possibility of working at high flow rates for fast purifications.
- Available in 800 g, 1.6 kg and 3 kg formats.
- Luer and/or luer-lock connection for standard hardware types.
- Packed with ultra-pure silica-based material.
- Available in Silica, C18, Cyano (CN), Diol (OH), Amino (NH₂) and HILIC-D.
- Excellent lot-to-lot reproducibility.

Compatibility

BGB® Flash Cartridges are compatible with all instruments on the market: Agela, Analogix, Armen Instrument, Biotage, Büchi, ECOM, GE ÄKTA, Gilson, Grace, Interchim Puriflash, Teledyne Isco, Yamazen, etc.

Different adapters are available. Please see on pages 10 and 11 or refer to www.bgb-shop.com/luer-adapters.

Pressure limit

BGB® Flash Cartridges use a spin-welded technology that makes it possible to use the column up to 27 bar (400psi) depending on column size. Please refer to the maximum pressure specified on each column and never exceed this value.

Easy-Multi-Luer Outlet

BGB® Flash Cartridges in hardware W004 to W330 have a female luer-lock inlet and an Easy-Multi-Luer outlet (figure 2). To get a male luer tip, just remove the orange plug by pulling it down (figure 1). To have a luer-lock connection, simply unscrew the luer fitting by using the orange plug as a tool (figure 3).



Figure 1



Figure 2



Figure 3

Report Sheet

All boxes of BGB® Flash Cartridges contain a report sheet. Every lot of filling material is tested to ensure good lot-to-lot reproducibility and the highest quality standard.

Label

Each BGB® Flash Cartridge comes with a label including a full description of the phase with lot number and indicating the best parameters for column use as flow rate, maximum pressure and sample loading (figure 4).

Storage before use

Before use, store the cartridges in a dry place, away from light and dust, and at room temperature. The orange plugs must not be removed before the first use.

Conditioning

This stage is crucial to achieve the maximum performance of your column. It activates the silica and removes the air from the cartridge. For optimum purification, this step must be performed prior to the sample load. Rinse the column with 3 to 5 column volumes depending on the phase and the column size. Generally, the solvent (or mixture of solvents) for this step is the one used at the beginning of the purification.

BE CAREFUL, and note that the use of a strong eluent for the conditioning will result in poor separation because of the high affinity of the solvent for the compounds to be purified. Depending of the solvent (or mixture of solvents) used, a normal heating phenomena can appear during this stage. To minimize this effect, and avoid a too much temperature increase, we strongly recommend to be at the lowest part of the flow rate range mentioned on the column. Drying the cartridge after the conditioning step will also result in a loss of column performance.

Storage after use

Normal-phase silica cartridges are single use columns and should not be stored or re-used.

For the bonded phases C18, Cyano (CN), Diol (OH), Amino (NH₂) and HILIC please refer to the table below.

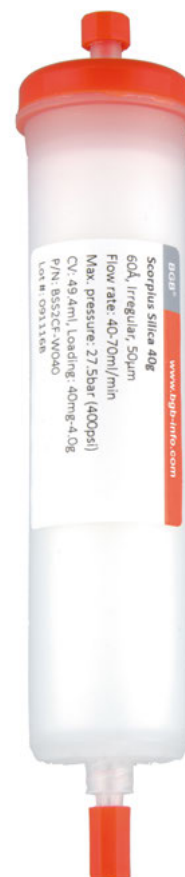
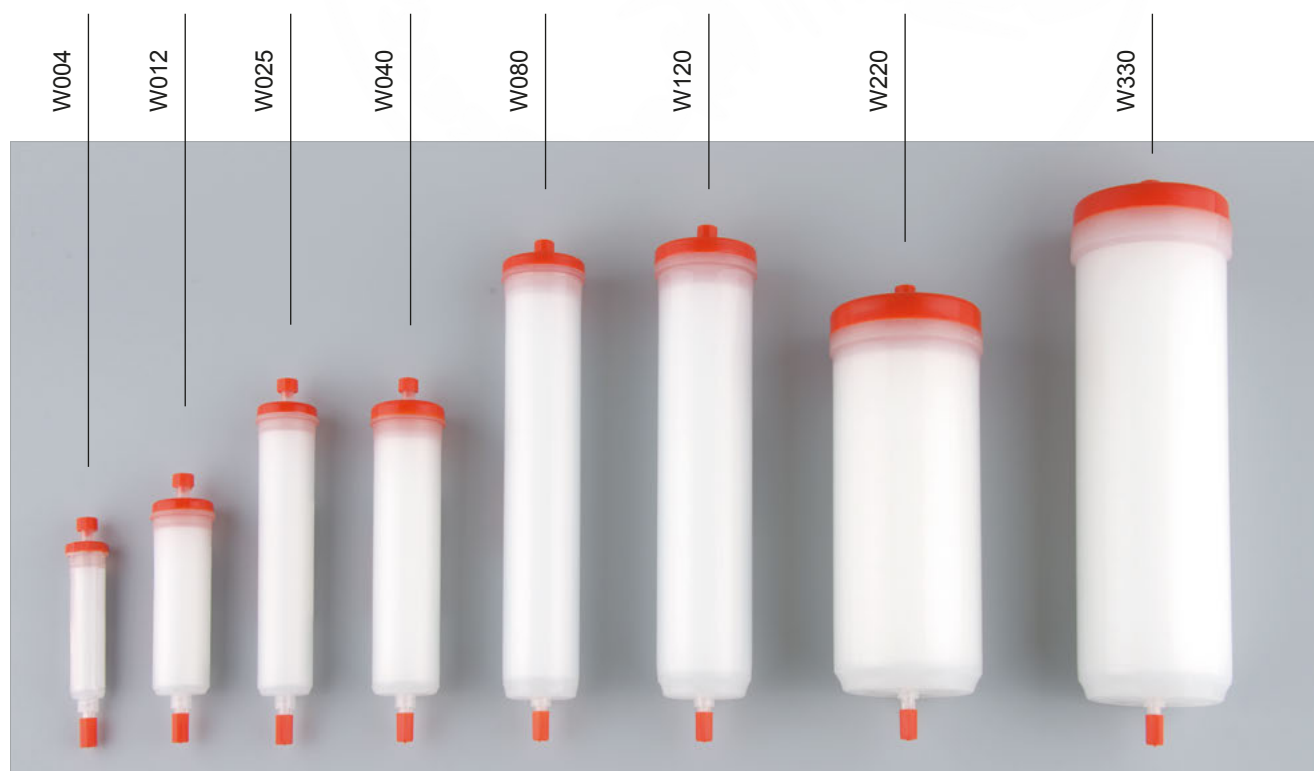


Figure 4

Stationary Phase	Conditioning		Cleaning	Storage conditions	
				Short-term storage	Long-term storage
Scorpis C18e-HP	Rinse 3 to 4 column volumes with a mixture of 70 % water / 30 % ACN or 80 % water/ 20 % MeOH. A minimum of 3 % organic is necessary to keep the activation.		Rinse 3 to 4 column volumes with the strongest solvent (100 %) to remove impurities.	Rinse the column with miscible solvents to reach at least 20 to 25 % of organic as ACN, MeOH, EtOH, iPrOH	Flush the column with miscible solvents to reach at least 50 % ACN (or MeOH) and 50 % water or 100 % iPrOH
Scorpis Cyano Scorpis Diol Scorpis Amino	Normal-phase mode: Rinse 3 to 4 column volumes with 100 % heptane.	Reverse-phase mode: Rinse 3 to 4 column volumes with a mixture of 70 % water / 30 % ACN or 80 % water/ 20 % MeOH. A minimum of 3 % of organic is necessary to keep the activation.	Rinse 3 to 4 column volumes with the strongest solvent (100 %) to remove impurities.	Rinse with 6 to 8 column volumes miscible solvents to reach at least 20 to 25 % ACN or iPrOH	Flush the column with 6 to 8 column volumes with miscible solvents to reach at least 50 % ACN (or MeOH) and 50 % water or 100 % iPrOH
Aquarius HILIC-D	Rinse 3 to 4 column volumes with a mixture of 70 % ACN / 30 % water.		Rinse 3 to 4 column volumes with the strongest solvent (100 %) to remove impurities.	Rinse 6 to 8 column volumes with miscible solvents to reach at least 70 % ACN.	Flush with 6 to 8 column volumes with miscible solvents to reach 100 % ACN.

Please note that the orange plugs at the inlet and at the outlet of the cartridge must always be in place to avoid solvent evaporation.

Cartridge Hardware Standard Sizes (Spin-Welded Technology)

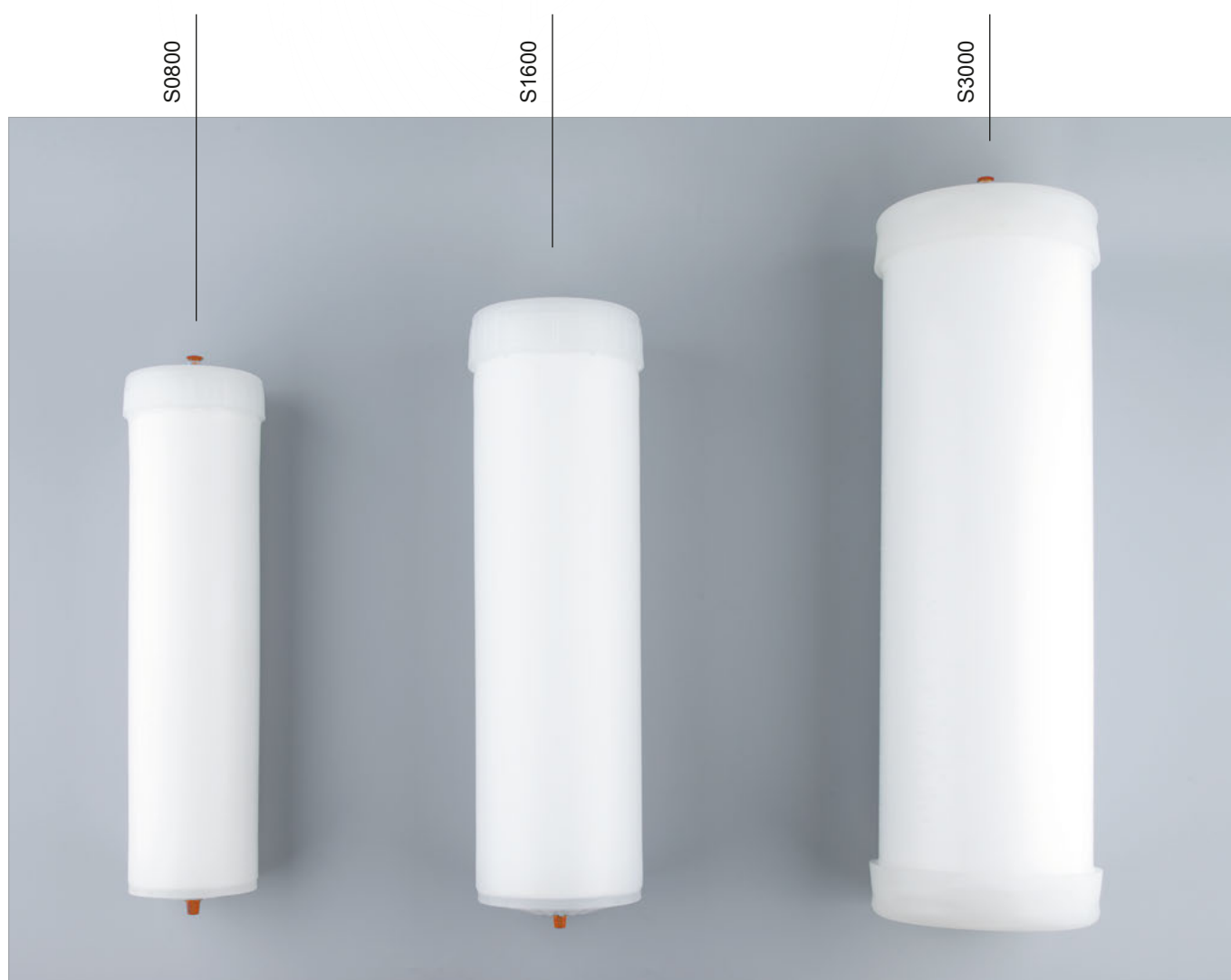


Hardware Parameters

Hardware type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits*	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

* All frits are made of polyethylene (PE).

Cartridge Hardware Large-Scale Purification

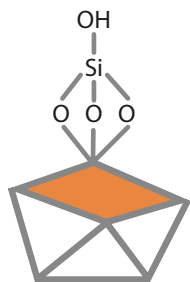


Hardware Parameters

Hardware type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits*	50 µm Particle size	30 µm Particle size
S0800	78.2mm	313.3mm	1128 ml	6.9bar (100 psi)	Top Frit	20-25 µm	16-20 µm
					Bottom Frit	20-25 µm	5-10 µm
S1600	103.8mm	353.7mm	2244 ml	6.9bar (100psi)	Top Frit	20-25 µm	16-2 µm
					Bottom Frit	20-25 µm	5-10 µm
S3000	127.5mm	418.0mm	4000 ml	6.9bar (100 psi)	Top Frit	20-25 µm	16-20 µm
					Bottom Frit	20-25 µm	5-10 µm

* All frits are made of polyethylene (PE).

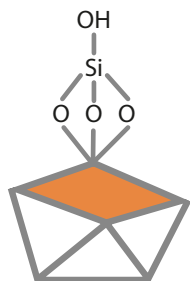
High-Performance BGB Scorpion Flash Cartridges, Silica (Si), Irregular



Phase:	Irregular Ultra-Pure Silica
Particle Size:	50 µm
Pore Size:	60 Å
Surface Area:	500 m ² /g
Endcapped:	no
Carbon Load:	n.a.



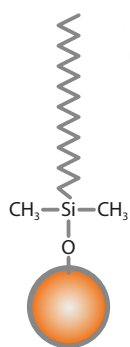
Part No.	Description	Qty.
BSS2CF-W004	BGB Scorpion Flash Cartridge, Silica 60 Å, Irregular 50 µm, 4 g	pk.20
BSS2CF-W012	BGB Scorpion Flash Cartridge, Silica 60 Å, Irregular 50 µm, 12 g	pk.18
BSS2CF-W025	BGB Scorpion Flash Cartridge, Silica 60 Å, Irregular 50 µm, 25 g	pk.12
BSS2CF-W040	BGB Scorpion Flash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



Phase:	Irregular Ultra-Pure Silica
Particle Size:	30 µm
Pore Size:	60 Å
Surface Area:	500 m ² /g
Endcapped:	no
Carbon Load:	n.a.



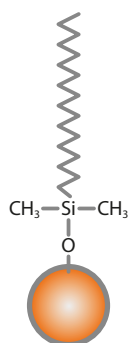
Part No.	Description	Qty.
BSS2AF-W004	BGB Scorpion Flash Cartridge, Silica 60 Å, Irregular 30 µm, 4 g	pk.20
BSS2AF-W012	BGB Scorpion Flash Cartridge, Silica 60 Å, Irregular 30 µm, 12 g	pk.18
BSS2AF-W025	BGB Scorpion Flash Cartridge, Silica 60 Å, Irregular 30 µm, 25 g	pk.12
BSS2AF-W040	BGB Scorpion Flash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

High-Performance BGB Scorpion Flash Cartridges, C18, Spherical

Phase:	Spherical Ultra-Pure C18 Bonded Silica
Particle Size:	50 μm
Pore Size:	120 Å
Surface Area:	300 m ² /g
Endcapped:	yes
Carbon Load:	17 %



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

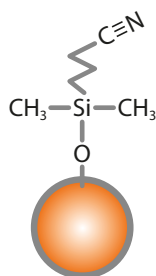


Phase:	Spherical Ultra-Pure C18 Bonded Silica
Particle Size:	30 μm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	17 %



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

High-Performance BGB Scorpion Flash Cartridges, Cyano (CN), Spherical

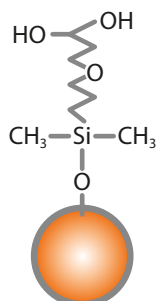


Phase:	Spherical Ultra-Pure Cyano (CN) Bonded Silica
Particle Size:	30 µm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5.5 %



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

High-Performance BGB Scorpion Flash Cartridges, Diol (OH), Spherical

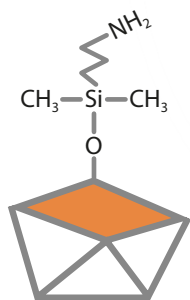


Phase:	Spherical Ultra-Pure Diol Bonded Silica
Particle Size:	30 µm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5 %



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

High-Performance BGB Scorpis Flash Cartridges, Amino (NH₂), Irregular



Phase:	Irregular Ultra-Pure Amino Bonded Silica
Particle Size:	50 µm
Pore Size:	60 Å
Surface Area:	500 m ² /g
Endcapped:	yes
Carbon Load:	5 %



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

High-Performance BGB Aquarius Flash Cartridges, HILIC-D, Spherical



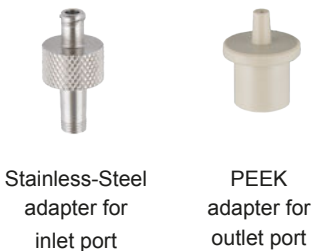
proprietary

Phase:	Spherical Ultra-Pure HILIC-D Bonded Silica
Particle Size:	30 µm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5 %



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.

Adapters for S0800, S1600 and S3000 Flash Column Hardware



These adapters (stainless-steel luer-lock inlet and PEEK luer outlet) have to be used with BGB® column hardware S800, S1600 and S3000 (please see page 5). They can be connected to any kind of luer connection.

Luer-lock inlet: The stainless-steel inlet adapter is designed with a thread on half of the length and a smooth part on the other half. The thread is supposed to fit into the plastic when you screw in (figure 6). You have to screw it until the smooth part is engaged a few millimeters deep to insure a truly leak-free connection (figure 7). This can be installed by hand and needs to be screwed in manually.

Luer outlet: The PEEK outlet adapter has to be firmly inserted into the column outlet to insure a truly leak-free connection (figure 9).

How to connect your large-scale cartridge to luer connections.



Figure 5



Figure 6



Figure 7



Figure 8

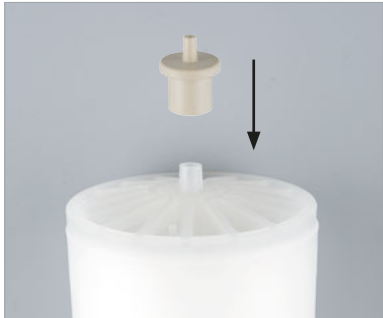


Figure 9



Figure 10

Ordering Information

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



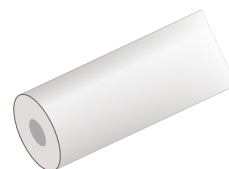
Adapters, Fittings, Plugs and Caps

Adapters	 Bore 1.3 mm	 Bore 1.3 mm	 Bore 1.5 mm	 Bore 1.0 mm	 Bore 0.4 mm
Part No.	220302	220304	220305	220308	220329
Description	Adapter, PEEK 1/4"-28 female to Luer-Lock female	Adapter, PEEK 1/4"-28 female to Luer-Lock male	Adapter, PEEK 1/4"-28 male to Luer female	Adapter, PEEK 1/4"-28 male to Luer-Lock male	Adapter, PP Luer-Lock female to Luer-Lock female

Fittings, Plugs and Caps	 max. 69 bar	 max. 69 bar	 max. 69 bar		
Part No.	220347	220345	220353	220334	220341
Description	Ferrule, ETFE with stainless-steel ring 1/8" OD tubing	Nut, PEEK 1/4"-28 thread 1/8" OD tubing fingertight, Long	Fitting, PEEK 1/4"-28 thread 1/8" OD tubing „No-Twist-One-Piece“ fingertight	Plug, POM (Delrin) 1/4"-28 thread	Cap, ETFE 1/4"-28 thread

More luer adapters at www.bgb-shop.com/luer-adapters**ETFE Tubing**

Part No.	OD	ID	Color	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

**HPLC-Certified Plastic Disposable Syringes**

Syringes with Luer Slip				
Part No.	PP-EWS-2L	PP-EWS-5L	PP-EWS-10L	PP-EWS-20L
Description	2 ml Luer-Slip HPLC-certified	5 ml Luer-Slip HPLC-certified	10 ml Luer-Slip HPLC-certified	20 ml Luer-Slip HPLC-certified

For Luer-Lock Syringes refer to www.bgb-shop.com/disposable-syringes

BGB Online Shop

www.bgb-shop.com

BGB Knowledge Base

www.bgb-shop.com/knowhow

Ask our Flash-Chromatography Experts



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