



## 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 (400 psi) 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 (NH<sub>2</sub>) 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](http://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 (400 psi) 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 (NH<sub>2</sub>) and HILIC please refer to the table below.

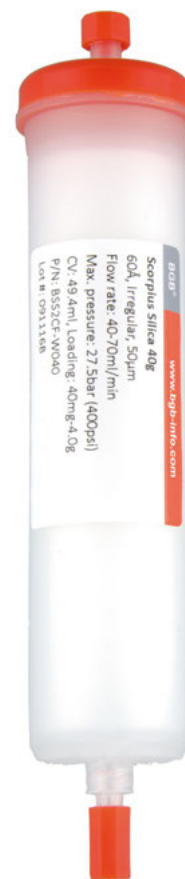
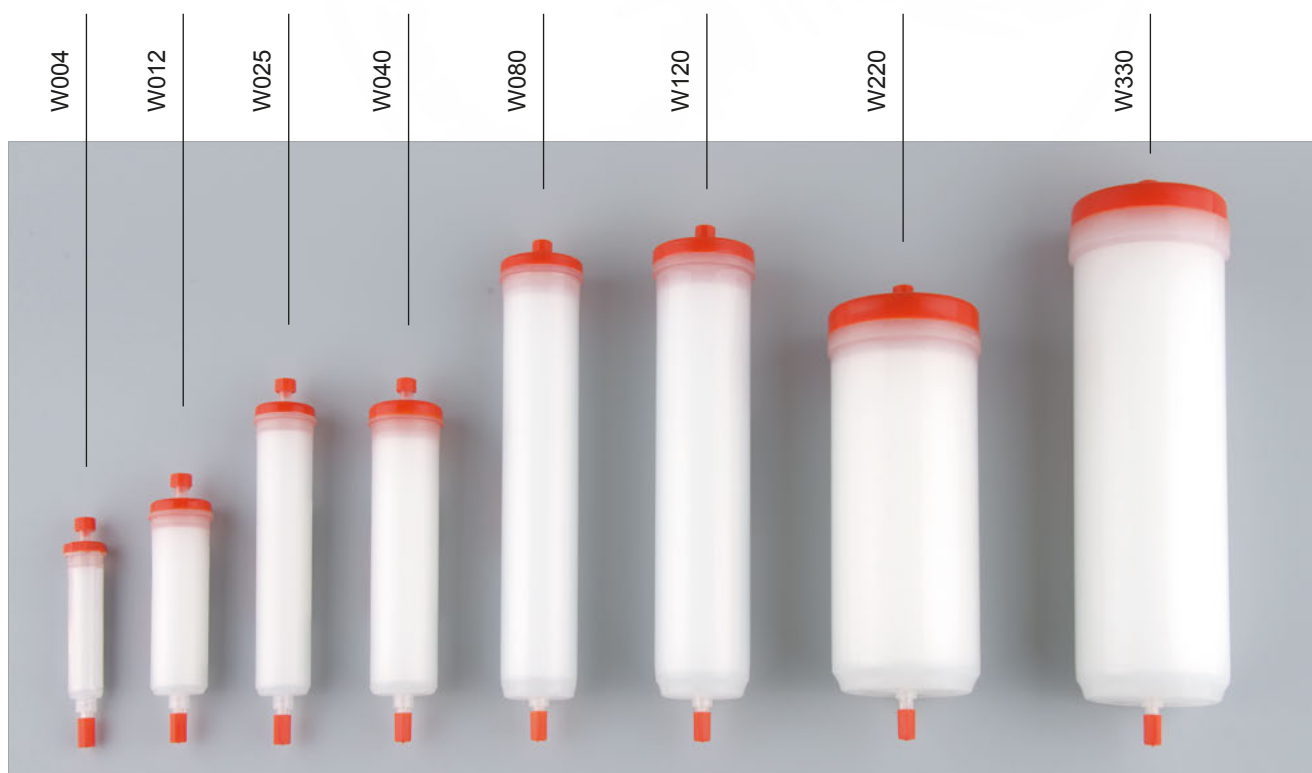


Figure 4

| Stationary Phase                                     | Conditioning   |   | Cleaning   | Storage conditions  |   |
|--|--|---|--|---|---|
|  |  |   |  | Short-term storage  | Long-term storage   |
| Scorpilus 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                            |
| Scorpilus Cyano<br>Scorpilus Diol<br>Scorpilus Amino | <b>Normal-phase mode:</b><br>Rinse 3 to 4 column volumes with 100 % heptane.   | <b>Reverse-phase mode:</b><br>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)

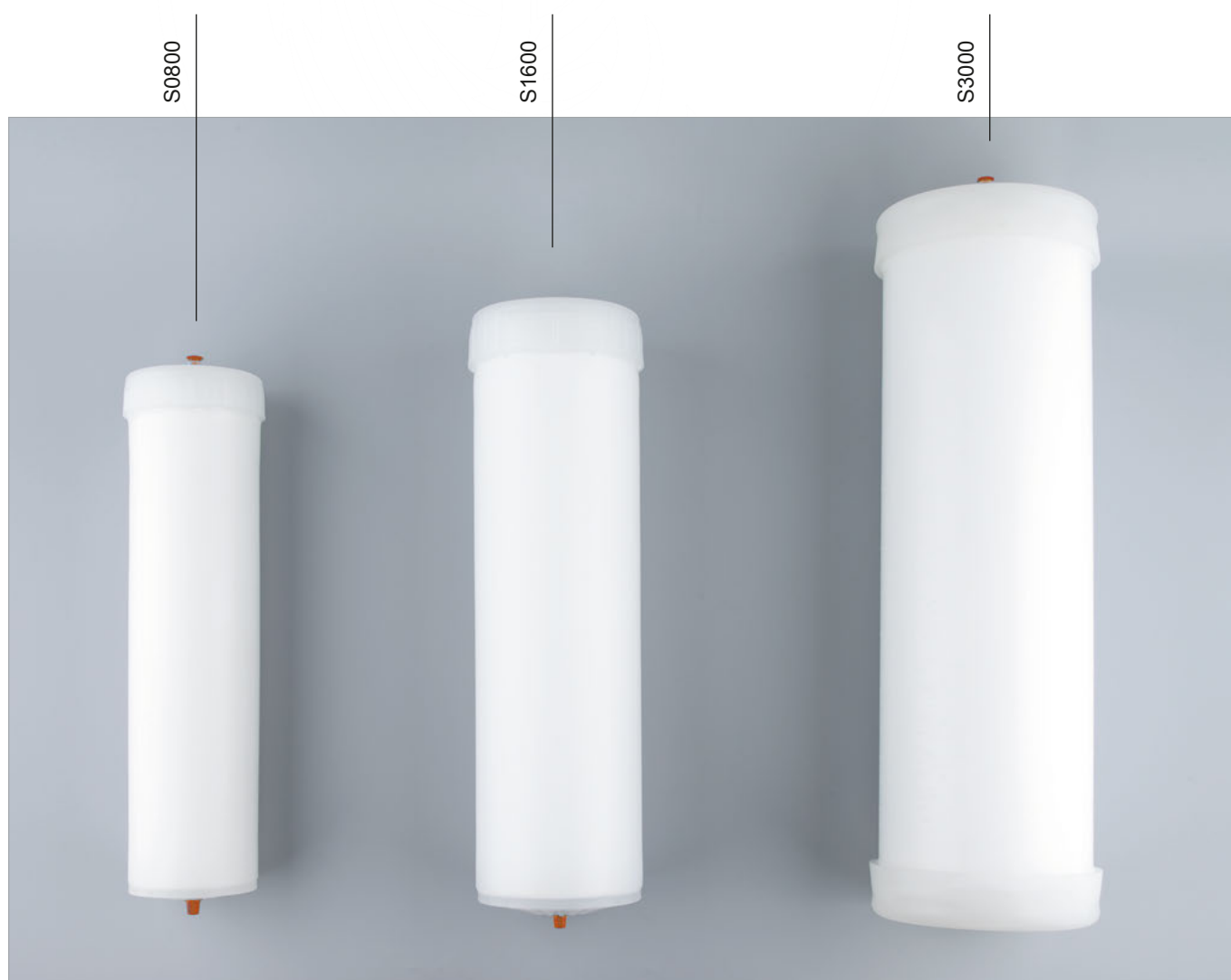


### Hardware Parameters

| 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

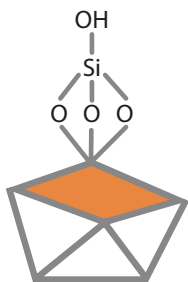


### Hardware Parameters

| 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       | 6.9 bar<br>(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       | 6.9 bar<br>(100 psi) | Top Frit    | 20-25 µm            | 16-2 µm             |
|               |                |            |               |                      | Bottom Frit | 20-25 µm            | 5-10 µm             |
| S3000         | 127.5mm        | 418.0mm    | 4000 ml       | 6.9 bar<br>(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 Scorpius Flash Cartridges, Silica (Si), Irregular



**Phase:** Irregular Ultra-Pure Silica

**Particle Size:** 50  $\mu\text{m}$

**Pore Size:** 60 Å

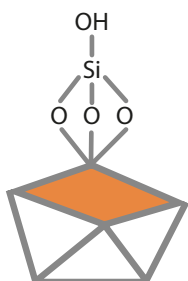
**Surface Area:** 500  $\text{m}^2/\text{g}$

**Endcapped:** no

**Carbon Load:** n.a.



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



**Phase:** Irregular Ultra-Pure Silica

**Particle Size:** 30  $\mu\text{m}$

**Pore Size:** 60 Å

**Surface Area:** 500  $\text{m}^2/\text{g}$

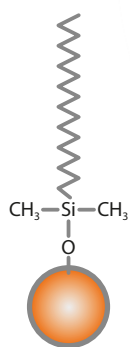
**Endcapped:** no

**Carbon Load:** n.a.



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

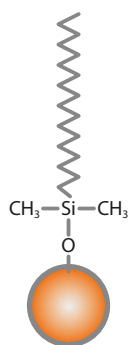
## High-Performance BGB Scorpius Flash Cartridges, C18, Spherical



|                       |  |
|-----------------------|--|
| <b>Phase:</b>         | Spherical Ultra-Pure C18 Bonded Silica |
| <b>Particle Size:</b> | 50 $\mu\text{m}$                       |
| <b>Pore Size:</b>     | 120 $\text{\AA}$                       |
| <b>Surface Area:</b>  | 300 $\text{m}^2/\text{g}$              |
| <b>Endcapped:</b>     | yes                                    |
| <b>Carbon Load:</b>   | 17 %                                   |



| Part No.     | Description   | Qty. |
|--------------|---|------|
| BSC1CF-W004  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 4.5 g   | pk.2 |
| BSC1CF-W012  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 18 g    | ea.  |
| BSC1CF-W025  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 28 g    | ea.  |
| BSC1CF-W040  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 40 g    | ea.  |
| BSC1CF-W080  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 90 g    | ea.  |
| BSC1CF-W120  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 130 g   | ea.  |
| BSC1CF-W220  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 245 g   | ea.  |
| BSC1CF-W330  | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 350 g   | ea.  |
| BSC1CF-S0800 | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 900 g   | ea.  |
| BSC1CF-S1600 | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 1.78 kg | ea.  |
| BSC1CF-S3000 | BGB Scorpius Flash Cartridge, C18e-HP 120 $\text{\AA}$ , Spherical 50 $\mu\text{m}$ , 3.2 kg  | ea.  |

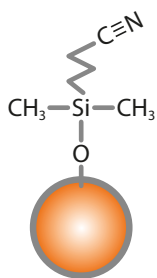


|                       |  |
|-----------------------|--|
| <b>Phase:</b>         | Spherical Ultra-Pure C18 Bonded Silica |
| <b>Particle Size:</b> | 30 $\mu\text{m}$                       |
| <b>Pore Size:</b>     | 100 $\text{\AA}$                       |
| <b>Surface Area:</b>  | 320 $\text{m}^2/\text{g}$              |
| <b>Endcapped:</b>     | yes                                    |
| <b>Carbon Load:</b>   | 17 %                                   |



| Part No.     | Description   | Qty. |
|--------------|---|------|
| BSE1AF-W004  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 5.4 g   | pk.2 |
| BSE1AF-W012  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 20 g    | ea.  |
| BSE1AF-W025  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 33 g    | ea.  |
| BSE1AF-W040  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 48 g    | ea.  |
| BSE1AF-W080  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 105 g   | ea.  |
| BSE1AF-W120  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 155 g   | ea.  |
| BSE1AF-W220  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 300 g   | ea.  |
| BSE1AF-W330  | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 420 g   | ea.  |
| BSE1AF-S0800 | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 1.08 kg | ea.  |
| BSE1AF-S1600 | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 2.14 kg | ea.  |
| BSE1AF-S3000 | BGB Scorpius Flash Cartridge, C18e-HP 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 3.83 kg | ea.  |

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

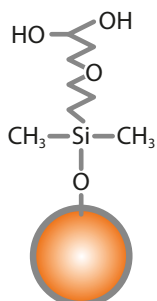


|                       |   |
|-----------------------|---|
| <b>Phase:</b>         | Spherical Ultra-Pure Cyano (CN) Bonded Silica |
| <b>Particle Size:</b> | 30 μm   |
| <b>Pore Size:</b>     | 100 Å   |
| <b>Surface Area:</b>  | 320 m <sup>2</sup> /g                         |
| <b>Endcapped:</b> 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

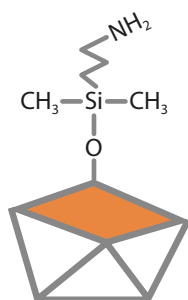


|                       |   |
|-----------------------|---|
| <b>Phase:</b>         | Spherical Ultra-Pure Diol Bonded Silica |
| <b>Particle Size:</b> | 30 μm                                   |
| <b>Pore Size:</b>     | 100 Å                                   |
| <b>Surface Area:</b>  | 320 m <sup>2</sup> /g                   |
| <b>Endcapped:</b>     | yes                                     |
| <b>Carbon Load:</b>   | 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 Scorpius Flash Cartridges, Amino (NH<sub>2</sub>), Irregular



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



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

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



proprietary

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



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

## Adapters for S0800, S1600 and S3000 Flash Column Hardware



Stainless-Steel adapter for inlet port



PEEK adapter for outlet port

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

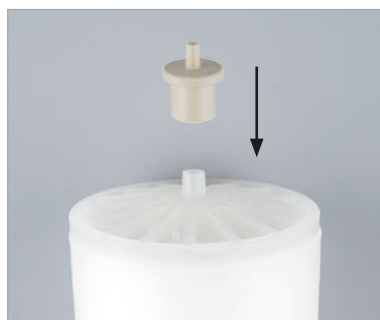


Figure 9



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**

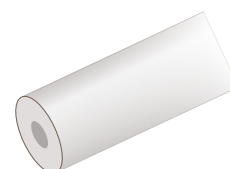
|                    |  |  |  |  |  |
|--------------------|--|--|--|--|--|
| <b>Adapters</b>    | <br>Bore 1.3 mm | <br>Bore 1.3 mm | <br>Bore 1.5 mm | <br>Bore 1.0 mm | <br>Bore 0.4 mm |
| <b>Part No.</b>    | <b>220302</b>  | <b>220304</b>  | <b>220305</b>  | <b>220308</b>  | <b>220329</b>  |
| <b>Description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

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





More luer adapters at [www.bgb-shop.com/luer-adapters](http://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**

|                                |   |   |   |   |
|--------------------------------|---|---|---|---|
| <b>Syringes with Luer Slip</b> |  |  |  |  |
| <b>Part No.</b>                | <b>PP-EWS-2L</b>  | <b>PP-EWS-5L</b>  | <b>PP-EWS-10L</b>   | <b>PP-EWS-20L</b>   |
| <b>Description</b>             | 2 ml<br>Luer-Slip<br>HPLC-certified   | 5 ml<br>Luer-Slip<br>HPLC-certified   | 10 ml<br>Luer-Slip<br>HPLC-certified  | 20 ml<br>Luer-Slip<br>HPLC-certified  |

For Luer-Lock Syringes refer to [www.bgb-shop.com/disposable-syringes](http://www.bgb-shop.com/disposable-syringes)