

## Liners



### Vertical® GC Liners

The Vertical® GC liners are made of borosilicate glass and designed to obtain the maximum performance to ensure no loss of sample and accurate quantitation of thermally labile or reactive compounds.

- Wide selection ranges
- Fit standard instrument manufacturer's inlets
- High temperature deactivation to ensure inertness

### SGE® FocusLiner™ GC Liners

The SGE® FocusLiner™ overcomes the quartz wool shifting problem. The quartz wool is held in the correct position by means of two tapered sections in the liner. The tapered sections are located to ensure that the needle tip penetrates the secured quartz wool plug wiping any residue liquid sample from the needle tip while providing sufficient surface area for volatilisation. With the SGE FocusLiner™, a good RSD is easily achievable showing the effectiveness of the secured quartz wool.

### Liner O-Rings

- Viton O-rings can be used to 200°C with low bleed and good durability.
- Graphite O-rings can be used to 450°C with non bleed and superb durability.

| Ordering Information                                            |         |                |     |            |           |  |
|-----------------------------------------------------------------|---------|----------------|-----|------------|-----------|--|
| Description, ID, OD and Length                                  | Diagram | Application    | QTY | Varian No. | Part No.  |  |
| Vertical® GC Liners for Varian 1075/1077                        |         |                |     |            |           |  |
| Splitless, Gooseneck<br>2mmID, 6.3mmOD, 74mmLength              |         | trace analytes | 5   | 190010905  | 063G-0015 |  |
|                                                                 |         | < 2µL          | 25  |            | 063G-0017 |  |
| Split, Gooseneck<br>4mmID, 6.3mmOD, 72mmLength                  |         | trace analytes | 5   | 392611942  | 063G-0025 |  |
|                                                                 |         | > 2µL          | 25  | SG092022   | 063G-0027 |  |
| Split, Gooseneck, w/Wool<br>4mmID, 6.3mmOD, 72mmLength          |         | trace analytes | 5   |            | 063G-0035 |  |
|                                                                 |         | > 2µL          | 25  |            | 063G-0037 |  |
| Split, Gooseneck, w/Frit<br>4mmID, 6.3mmOD, 72mmLength          |         | dirty samples  | 5   | 190010903  | 063G-0045 |  |
|                                                                 |         | non-active     | 25  |            | 063G-0047 |  |
| Split, w/Laminar Cap<br>4mmID, 6.3mmOD, 72mmLength              |         | high MW        | 5   |            | 063G-0055 |  |
|                                                                 |         | analytes       | 25  |            | 063G-0057 |  |
| Split, w/Baffle<br>4mmID, 6.3mmOD, 72mmLength                   |         | Close BP       | 5   | 190010904  | 063G-0065 |  |
|                                                                 |         | Compounds      | 25  |            | 063G-0067 |  |
| SGE® FocusLiner™ GC Liners for Varian 1075/1077                 |         |                |     |            |           |  |
| Split, w/Wool<br>2mmID, 6.3mmOD, 74mmLength                     |         | trace analytes | 5   |            | 063G-0075 |  |
|                                                                 |         | < 2µL          | 25  |            | 063G-0077 |  |
| Split, w/Wool<br>4mmID, 6.3mmOD, 72mmLength                     |         | trace analytes | 5   | SG092022   | 063G-0085 |  |
|                                                                 |         | > 2µL          | 25  |            | 063G-0087 |  |
| Split, Gooseneck, w/Wool<br>4mmID, 6.3mmOD, 72mmLength          |         | trace analytes | 5   | SG092028   | 063G-0095 |  |
|                                                                 |         | > 2µL          | 25  |            | 063G-0097 |  |
| Split, Tapered, w/Wool<br>4mmID, 6.3mmOD, 72mmLength            |         | trace analytes | 5   | SG092025   | 063G-0105 |  |
|                                                                 |         | > 2µL          | 25  |            | 063G-0107 |  |
| Liner O-Rings                                                   |         |                |     |            |           |  |
| Viton O-rings for Split (6.3mmOD) or Splitless (6.5mmOD) Liners |         |                | 10  | 8850103100 | 063G-0146 |  |
| Graphite O-rings for Split (6.3mmOD) Liners                     |         |                | 10  | 392611935  | 063G-0156 |  |
| Graphite O-rings for Splitless (6.5mmOD) Liners                 |         |                | 10  | 392611940  | 063G-0166 |  |

# Varian Supplies/Parts

| Ordering Information                                            |         |                            |     |            |           |  |
|-----------------------------------------------------------------|---------|----------------------------|-----|------------|-----------|--|
| Description, ID, OD and Length                                  | Diagram | Application                | QTY | Varian No. | Part No.  |  |
| Vertical® GC Liners for Varian 1078/1079                        |         |                            |     |            |           |  |
| SPME, Straight-Through<br>0.8mmID, 5mmOD, 54mmLength            |         | trace analytes<br>< 2µL    | 5   | 392611948  | 063G-0115 |  |
|                                                                 |         |                            | 25  |            | 063G-0117 |  |
| Splitless, Straight-Through<br>0.5mmID, 5mmOD, 54mmLength       |         | trace analytes<br>< 2µL    | 5   | 392611949  | 063G-0125 |  |
|                                                                 |         |                            | 25  |            | 063G-0127 |  |
| Splitless, Gooseneck<br>2.0mmID, 5mmOD, 54mmLength              |         | trace analytes<br>< 2µL    | 5   | 392611947  | 063G-0135 |  |
|                                                                 |         |                            | 25  |            | 063G-0137 |  |
| Split, Gooseneck<br>3.4mmID, 5mmOD, 54mmLength                  |         | trace analytes<br>> 2µL    | 5   | 392611945  | 063G-0145 |  |
|                                                                 |         |                            | 25  |            | 063G-0147 |  |
| Split, Gooseneck, w/Frit<br>3.4mmID, 5mmOD, 54mmLength          |         | dirty sample<br>non-active | 5   | 392611946  | 063G-0155 |  |
|                                                                 |         |                            | 25  |            | 063G-0157 |  |
| Split/Spitless, Gooseneck, w/Wool<br>2.0mmID, 5mmOD, 54mmLength |         | trace analytes<br>< 2µL    | 5   | 392611953  | 063G-0165 |  |
|                                                                 |         |                            | 25  |            | 063G-0167 |  |
| SGE® FocusLiner™ GC Liners for Varian 1078/1079                 |         |                            |     |            |           |  |
| Direct, Staright-Through<br>0.5mmID, 5mmOD, 54mmLength          |         | trace analytes<br>< 2µL    | 5   |            | 063G-0175 |  |
|                                                                 |         |                            | 25  |            | 063G-0177 |  |
| LVI, Gooseneck, Sintered Glass<br>1mmID, 5mmOD, 54mmLength      |         | trace analytes<br>< 2µL    | 5   | SG092245   | 063G-0185 |  |
|                                                                 |         |                            | 25  |            | 063G-0187 |  |
| Split/Splitless, w/Wool<br>3.4mmID, 5mmOD, 54mmLength           |         | trace analytes<br>> 2µL    | 5   | SG092037   | 063G-0195 |  |
|                                                                 |         |                            | 25  |            | 063G-0197 |  |
| Split/Splitless, Gooseneck<br>3.4mmID, 5mmOD, 54mmLength        |         | trace analytes<br>> 2µL    | 5   | SG092038   | 063G-0205 |  |
|                                                                 |         |                            | 25  |            | 063G-0207 |  |
| Split/Splitless, Tapered, w/Wool<br>3.4mmID, 5mmOD, 54mmLength  |         | trace analytes<br>> 2µL    | 5   | SG092036   | 063G-0215 |  |
|                                                                 |         |                            | 25  |            | 063G-0217 |  |
| Splitless, Gooseneck<br>2mmID, 5mmOD, 54mmLength                |         | trace analytes<br>< 2µL    | 5   | SG092039   | 063G-0225 |  |
|                                                                 |         |                            | 25  |            | 063G-0227 |  |
| Vertical® GC Liners for Varian 1093/1094 SPI                    |         |                            |     |            |           |  |
| SPI, Direct, Taper,<br>0.8mmID, 4.6mmOD, 54mmLength             |         | trace analytes<br>< 2µL    | 5   | 392611950  | 063G-0235 |  |
|                                                                 |         |                            | 25  |            | 063G-0237 |  |
| SPI, For 0.25-0.32mmID Columns,<br>0.8mmID, 4.6mmOD, 54mmLength |         | trace analytes<br>< 2µL    | 5   | 190010906  | 063G-0245 |  |
|                                                                 |         |                            | 25  |            | 063G-0247 |  |
| SPI, For 0.53mmID Columns,<br>0.8mmID, 4.6mmOD, 54mmLength      |         | trace analytes<br>< 2µL    | 5   | 190010907  | 063G-0255 |  |
|                                                                 |         |                            | 25  |            | 063G-0257 |  |
| SGE® GC Liners for Varian 1093/1094 SPI                         |         |                            |     |            |           |  |
| SPI, Direct, Taper,<br>0.5mmID, 4.6mmOD, 54mmLength             |         | trace analytes<br>< 2µL    | 5   | SG092027   | 063G-0265 |  |
|                                                                 |         |                            | 25  |            | 063G-0267 |  |
| SPI, For 0.25-0.32mmID Columns,<br>0.8mmID, 4.6mmOD, 54mmLength |         | trace analytes<br>< 2µL    | 5   | SG092030   | 063G-0275 |  |
|                                                                 |         |                            | 25  |            | 063G-0277 |  |
| SPI, For 0.53mmID Columns,<br>0.8mmID, 4.6mmOD, 54mmLength      |         | trace analytes<br>< 2µL    | 5   | SG092034   | 063G-0285 |  |
|                                                                 |         |                            | 25  |            | 063G-0287 |  |
| Liner O-Rings                                                   |         |                            |     |            |           |  |
| Viton O-rings for Split (6.3mmOD) or Splitless (6.5mmOD) Liners |         |                            | 10  | 8850103100 | 063G-0146 |  |
| Graphite O-rings for Split (6.3mmOD) Liners                     |         |                            | 10  | 392611935  | 063G-0156 |  |
| Graphite O-rings for Splitless (6.5mmOD) Liners                 |         |                            | 10  | 392611940  | 063G-0166 |  |

# Varian Supplies/Parts

| Ordering Information                                                   |         |                         |         |            |                        |
|------------------------------------------------------------------------|---------|-------------------------|---------|------------|------------------------|
| Description, ID, OD and Length                                         | Diagram | Application             | QTY     | Varian No. | Part No.               |
| <b>Vertical® GC Liners for Varian 1177</b>                             |         |                         |         |            |                        |
| Direct, Straight-Through<br>1mmID, 6.3mmOD, 78.5mmLength               |         | trace analytes<br>< 2µL | 5<br>25 | 392611999  | 063G-0295<br>063G-0297 |
| Split, Cup-Splitter, w/Wool<br>4mmID, 6.3mmOD, 78.5mmLength            |         | trace analytes<br>< 2µL | 5<br>25 | 392611932  | 063G-0305<br>063G-0307 |
| Split, Cup-Splitter,<br>4mmID, 6.3mmOD, 78.5mmLength                   |         | trace analytes<br>< 2µL | 5<br>25 | 392611931  | 063G-0315<br>063G-0317 |
| Split, Straight-Through, w/Wool<br>4mmID, 6.3mmOD, 78.5mmLength        |         | trace analytes<br>> 2µL | 5<br>25 | 392611934  | 063G-0325<br>063G-0327 |
| Split/Spitless, Gooseneck,<br>2mmID, 6.5mmOD, 78.5mmLength             |         | trace analytes<br>< 2µL | 5<br>25 | 392611926  | 063G-0335<br>063G-0337 |
| Splitless, Straight-Through, w/Wool<br>2mmID, 6.5mmOD, 78.5mmLength    |         | trace analytes<br>< 2µL | 5<br>25 | 392599903  | 063G-0345<br>063G-0347 |
| Splitless, Straight-Through,<br>2mmID, 6.5mmOD, 78.5mmLength           |         | trace analytes<br>< 2µL | 5<br>25 | 392611924  | 063G-0355<br>063G-0357 |
| Splitless, Double-Gooseneck,<br>4mmID, 6.5mmOD, 78.5mmLength           |         | trace analytes<br>< 2µL | 5<br>25 | 392611929  | 063G-0365<br>063G-0367 |
| Splitless, Gooseneck, w/Silica Wool<br>4mmID, 6.5mmOD, 78.5mmLength    |         | trace analytes<br>> 2µL | 5<br>25 | 392611928  | 063G-0375<br>063G-0377 |
| Splitless, Gooseneck, w/Glass Wool<br>4mmID, 6.5mmOD, 78.5mmLength     |         | trace analytes<br>> 2µL | 5<br>25 | 392611936  | 063G-0385<br>063G-0387 |
| Splitless, Gooseneck,<br>4mmID, 6.5mmOD, 78.5mmLength                  |         | trace analytes<br>> 2µL | 5<br>25 | 392611927  | 063G-0395<br>063G-0397 |
| Splitless, Straight-Through, w/Wool<br>4mmID, 6.5mmOD, 78.5mmLength    |         | trace analytes<br>> 2µL | 5<br>25 | 392611937  | 063G-0405<br>063G-0407 |
| Splitless, Straight-Through<br>4mmID, 6.5mmOD, 78.5mmLength            |         | trace analytes<br>> 2µL | 5<br>25 | 392611925  | 063G-0415<br>063G-0417 |
| <b>SGE® GC Liners for Varian 1177</b>                                  |         |                         |         |            |                        |
| Direct, Straight-Through<br>1.2mmID, 6.3mmOD, 78.5mmLength             |         | trace analytes<br>< 2µL | 5<br>25 | SG092016   | 063G-0425<br>063G-0427 |
| Split, Straight-Through, w/Wool<br>4mmID, 6.3mmOD, 78.5mmLength        |         | trace analytes<br>> 2µL | 5<br>25 | SG092001   | 063G-0435<br>063G-0437 |
| Split, Straight-Through,<br>4mmID, 6.3mmOD, 78.5mmLength               |         | trace analytes<br>> 2µL | 5<br>25 | SG092007   | 063G-0445<br>063G-0447 |
| Split/Splitless, Fast, FocusLiner<br>2.3mmID, 6.3mmOD, 78.5mmLength    |         | trace analytes<br>< 2µL | 5<br>25 | SG092005   | 063G-0455<br>063G-0457 |
| Split/Splitless, Tapered, FocusLiner<br>2.3mmID, 6.3mmOD, 78.5mmLength |         | trace analytes<br>< 2µL | 5<br>25 | SG092111   | 063G-0465<br>063G-0467 |
| Split/Splitless, Double Gooseneck<br>4mmID, 6.3mmOD, 78.5mmLength      |         | trace analytes<br>< 2µL | 5<br>25 | SG092018   | 063G-0475<br>063G-0477 |
| Split/Splitless, FocusLiner<br>4mmID, 6.3mmOD, 78.5mmLength            |         | trace analytes<br>> 2µL | 5<br>25 | SG092002   | 063G-0485<br>063G-0487 |
| Split/Splitless, Gooseneck, w/Wool<br>4mmID, 6.3mmOD, 78.5mmLength     |         | trace analytes<br>> 2µL | 5<br>25 | SG092019   | 063G-0495<br>063G-0497 |
| Split/Splitless, Gooseneck,<br>4mmID, 6.3mmOD, 78.5mmLength            |         | trace analytes<br>> 2µL | 5<br>25 | SG092017   | 063G-0505<br>063G-0507 |
| Split/Splitless, Recessed Gooseneck,<br>4mmID, 6.3mmOD, 78.5mmLength   |         | trace analytes<br>> 2µL | 5<br>25 | SG092010   | 063G-0515<br>063G-0517 |
| Splitless, Tapered, FocusLiner<br>4mmID, 6.3mmOD, 78.5mmLength         |         | trace analytes<br>> 2µL | 5<br>25 | SG092003   | 063G-0525<br>063G-0527 |
| Splitless, Recessed Gooseneck,<br>2mmID, 6.3mmOD, 78.5mmLength         |         | trace analytes<br>> 2µL | 5<br>25 | SG092013   | 063G-0535<br>063G-0537 |
| <b>Liner O-Rings</b>                                                   |         |                         |         |            |                        |
| Viton O-rings for Split (6.3mmOD) or Splitless (6.5mmOD) Liners        |         |                         | 10      | 8850103100 | 063G-0146              |
| Graphite O-rings for Split (6.3mmOD) Liners                            |         |                         | 10      | 392611935  | 063G-0156              |
| Graphite O-rings for Splitless (6.5mmOD) Liners                        |         |                         | 10      | 392611940  | 063G-0166              |