

# Drilled Uniliner® Inlet Liners for Varian 1078/1079 and 1177 GCs

For use with 0.25, 0.32, and 0.53mm ID capillary columns.

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## Installation and Operation

1. Install the Drilled Uniliner® liner in the same manner as any splitless liner, with the Press-Tight® taper downward, with the following additions:
  - a. Place the hole of the Drilled Uniliner® opposite the purge vent.
  - b. Heat the injector to the operating temperature once the liner is installed but prior to sealing the column to the bottom of the liner.
2. Place the column nut and ferrule onto the inlet side of column. Point the inlet end of the column down, slide the column nut & ferrule down the column, and remove several centimeters from the end of the column. Cut the column end squarely, using the smooth side of a ceramic scoring wafer. A pointed scribe will not provide a square, even cut, which can produce a poor seal and affect peak symmetry (tailing).
3. The ferrule should be seated in a two-step process because a new graphite or Vespel®/graphite ferrule will deform on initial tightening. This deformation process could push the column end into the Press-Tight® taper, crushing the column end.
  - a. Insert the column into the injection port and push gently until the column contacts the Press-Tight® taper, then draw the column back approximately 5mm.
  - b. Seat the ferrule onto the column by tightening the column nut until the column cannot be moved by pulling on it.
4. Once the ferrule has been seated, loosen the column nut and push the column into the Press-Tight® taper. Tighten the column nut. While tightening the column nut hold the column in place with your opposite hand, keeping pressure on the column against the Press-Tight® seal.
5. Operate the injector in the splitless mode when using a Drilled Uniliner® liner. The liner is sealed at the bottom by the capillary column and in the split mode the purge gas will flow out the hole on the side of the liner. Operate the septum purge under standard conditions.

**Call Technical Service at 800-356-1688 or 814-353-1300, ext. 4  
(or your Restek representative) if you have any questions about  
this product or any other Restek product.**

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