

Varian Binary Pump PEEK™ Tubing Kit Installation Instructions

Binary System 0.508 mm 0.02 ID in. PEEK Tubing Kit, part number 9910138900

Parts List

The follow items are supplied with this kit:

Table 1. Tubing kit parts list

Description	Part Number	Comments
High pressure PEEK nut and ferrule, 3 each 10-32 x 1.588 mm 1/16 in.	R000FTF300	When ordering replacements, specify the number of nut and ferrule combinations needed.
PEEK (polyetheretherketone) tubing 1.588 mm (1/16 in.) OD x 0.508 mm (0.020 in.) ID, 2.75 m long (9.02 ft)	AL35727	

Mast Kit Installation

If you need to install the mast kit on your modular HPLC system, see the instructions that came with your HPLC pump. Once the mast kit installation is done, return to this document to complete the tubing installation.

The tubing lengths specified in Table 2 fit between components when placed on the mast in the correct location.

Installing the PEEK Tubing

Note The PEEK tubing is supplied as a coil and must be cut to the required lengths. Use a suitable plastic tubing cutter such as a Varian AL3206 Polymer Tubing Cutter. All cuts should be square and burr free. Use the nuts and ferrules supplied with each component when installing tubing. The nuts and ferrules provided in this kit are spares.

To install the PEEK tubing:

1. If you are replacing tubing on an existing system, remove the old tubing.



Warning – Chemical Hazard – Inhalation Hazard – Fire Hazard

Tubing may contain residual chemicals which may be harmful when in contact with skin or eyes. Some solvents may have flammable properties. To avoid injury to personnel or damage to equipment, consult the MSDS. Always follow appropriate safety guidelines when using chemicals and solvents. Wear appropriate safety equipment and clothing.

2. Cut the PEEK tubing to the lengths specified in Table 2.

Table 2. PEEK tubing lengths

Tubing Description	Length
Pump to pressure module	0.63 m (24.8 in.)
Pump to mixer	0.70 m (27.6 in.)
Pressure module to mixer	0.37 m (14.6 in.)
Mixer to purge valve	0.78 m (30.7 in.)
Purge valve to injector valve	0.16 m (6.3 in.)

Note See Figure 1 for the tubing locations.

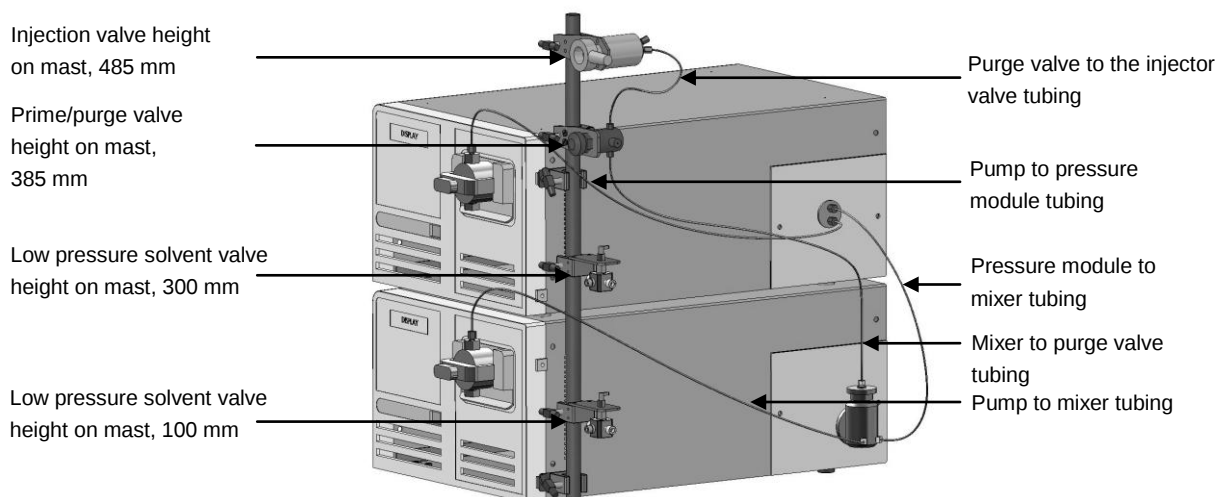


Figure 1. Tubing on binary pumps

Note Valve heights are measured from the top of the bench to the bottom of the valve brackets. Use the heights listed as a starting point and move the valves up or down to accommodate the tubing, if required. Avoid bending the tubing when installing it.

3. Use the fittings supplied with the component (pump, mixer, pressure module, valves etc.), or from the spares provided. Place the nut and then the ferrule on the tubing (see Figure 2).

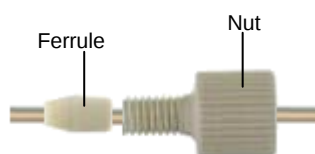


Figure 2. Placement of nut and ferrule on the tubing

4. Place the loosely assembled tubing and fitting into the correct location (see Figure 1). Make sure the tubing is inserted fully inside the port. Tighten the nut finger-tight.

Caution

Do not over-tighten the fittings. Damage may occur to the fittings, tubing or components.

5. Repeat Steps 3 and 4 for all tubing ends.

The manual injection valve is typically set up so that the:

- sample loop connects to ports 1 and 4
- tubing from the purge valve connects to port 2
- tubing to the column connects to port 3
- ports 5 and 6 are waste lines

For any additional tubing or fittings please see the Varian, Inc. Web site at www.varianinc.com

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