

Varian Isocratic Pump Stainless Steel Tubing Kit Installation Instructions

Isocratic Pump Stainless Steel Tubing Kit, 0.20 in. ID, part number 9910138000

Parts List

The follow items are supplied with this kit:

Description	Part Number	Comments
Nut, stainless steel, 10-32 x 1/16 in., 2 pcs	1610141800	Use part number AL206085, when ordering replacements.
Ferrule, stainless steel, 1/16 in., 2 pcs	1610143200	Use part number AL286075 when ordering replacements.
Pump head to pressure module tubing	3710064300	
Purge valve to manual injection valve tubing	3710064700	
Purge valve to pressure module tubing	3710065000	

Mast Kit Installation

If you need to install the mast kit on your modular HPLC system, please see the Varian Mast Kit and Components Installation Instructions, publication number 8510251400. Once the mast kit installation is completed, return to this document to complete the tubing installation.

Note The tubing is pre-cut and bent to fit between components when placed on the mast at a specific location. Follow the directions carefully when assembling and installing the mast kit, injection valve, prime/purge valve and 3-way pump head prime valve.

Installing the Stainless Steel Tubing

Note The stainless steel tubing is supplied pre-cut and bent at the appropriate size when used with a Varian pump. Use the nuts and ferrules supplied with each module when installing tubing. The two nuts and ferrules provided in this kit are spares.

To install the tubing:

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



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 and always follow appropriate safety guidelines when using chemicals and solvents and always wear appropriate safety equipment and clothing.

Note See Figure 1 for the tubing locations.

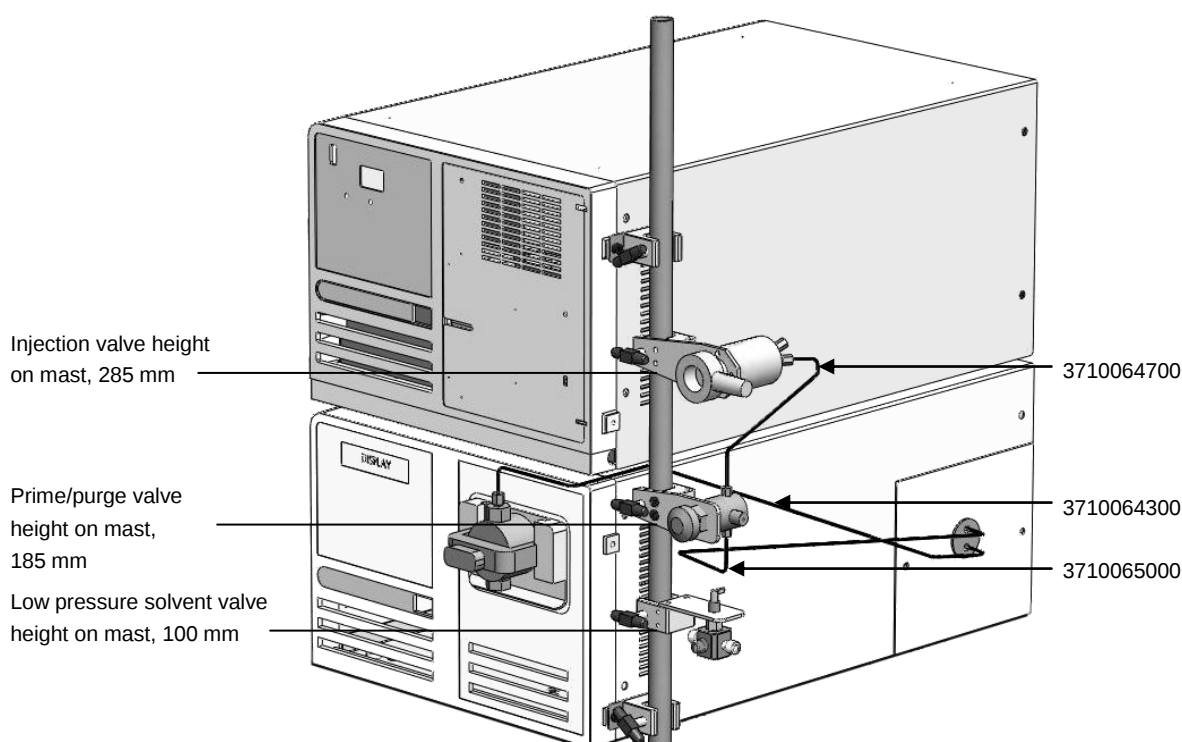


Figure 1. Tubing kit installed on an isocratic pump showing individual part numbers and component locations on the mast

- Note** Valve heights are measured from the top of the bench to the bottom of the valve brackets. Tubing length and bends may vary slightly. 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.
2. Find tubing part number 3710064300, the tubing from the pump head to the pressure module.
 3. Carefully route the tubing according to Figure 1. No additional bending of the tubing should be required.
 4. Using the fittings supplied with the module (pump, mixer, pressure module, valves, etc.), or the spares provided, place the nut and then the ferrule on the tubing. See Figure 2 for ferrule and nut assembly.

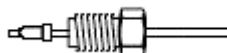


Figure 2. Placement of nut and ferrule on the tubing

5. Place the loosely assembled fitting into the outlet check valve port on the pump. Make sure the tubing is bottomed out inside the port. Tighten the nut finger-tight. Tighten the nut an additional $\frac{3}{4}$ of a turn with a wrench.

Caution

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

6. Repeat Steps 3 to 5 for all tubing ends. Ensure you use the appropriate fittings and insert the tubing fully into the correct module before tightening the fittings.

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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