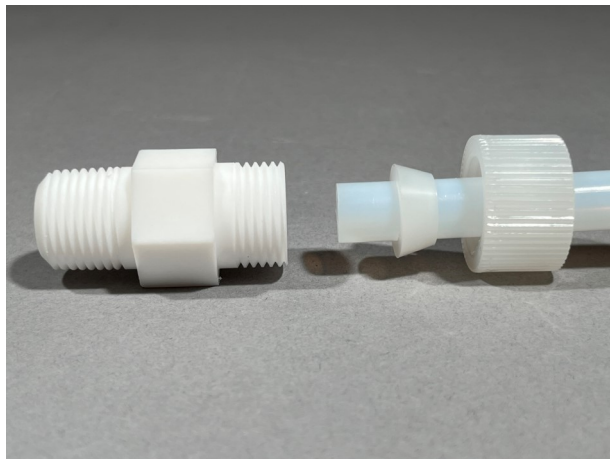


FLUOR-O-FLO®  
PTFE Compression Tube and Fitting System  
Installation Instructions

The following information is intended to assist users of the FLUOR-O-FLO® PTFE Compression Tube and Fitting System in achieving trouble free installation of system components. This bulletin covers the following aspects of installation:



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Also available:  
FLUOR-O-FLO® PTFE Compression  
Tube and Fitting System

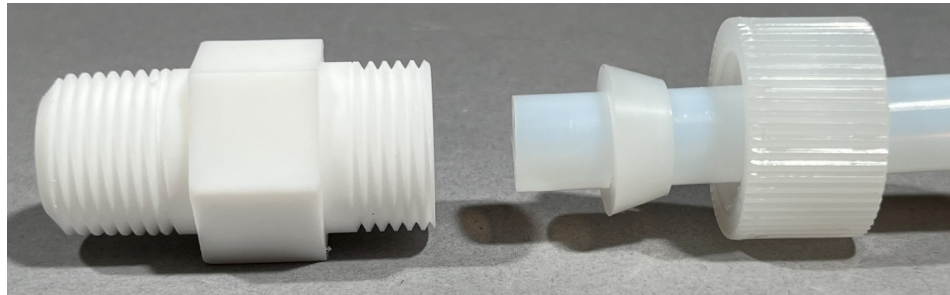
- Sales Bulletin (under construction)
- Product Specifications (under construction)
- Pressure Ratings (under construction)

## Safety and Preparation

- Confirm the system is depressurized and that work zones are free of hazardous fluids.
- Ensure the work area and work surfaces have good ventilation and that the work area and system components are clean and dry to prevent contamination. PTFE can be cleaned using Kimwipes® and isopropyl alcohol to remove any dirt or grease from the sealing surfaces.
- Ensure all elements of the system are secure and stable to prevent any unnecessary movement during installation.
- Handle all PTFE parts with care. While PTFE is a very durable material it can be sensitive to rough or careless handling which risks damage to or deformation of sealing areas.
- For optimal connection, the fittings and tubing should either be at ambient temperature or thermally equilibrated with each other.

## Installation

- Cut the PTFE tube to the desired length using a sharp PTFE tube cutter such as <https://a.co/d/9IWP7oP>.
  - If the joint will be disassembled and reassembled, leave extra tube length to create a new connection for reassembly.
  - Take care to make a very square cut of the tube as this will help ensure a leak-proof joint.
  - Ensure there are no burrs or rough edges at the cut.
- Slide the compression nut onto the tube with the threads facing the open end of the tube.
- Slide the gripper onto the tube with the larger diameter end facing the open end of the tube.



- Slide the open tube end into the PTFE fitting and press firmly to ensure the tube end is fully seated on the face inside the PTFE fitting.



- Slide the compression nut to the threads of the PTFE fitting then hand-tighten the joints making sure the parts are not cross threaded. (Hand-tighten does not mean to go as far as a strong person can go. Just make it snug.) Then tighten an additional approximately 1/4 turn.
  - If necessary, a wrench can be used on the flats of the fitting.
  - Do not over tighten.



## Inspection and Testing

- When all fittings are installed, inspect all connections visually to ensure they are properly seated and that there are no visible gaps or uneven joints.
- Use water to fill and slowly pressurize the system, monitoring the pressure gauge and connections closely.
- Wipe each joint with brown paper towel or similar to determine if any joints are leaking water. If so,
  - Depressurize the system.
  - Tighten the leaking joint(s) an additional approximately 1/4 turn.
  - Re-pressurize and retest.
- Once all joints have been tested, perform a final pressure test at the system's operating pressure. Do not exceed the system's maximum rated pressure.

## Disassembly and Reassembly

- Prior to disassembly of each joint, ensure the system has been fully depressurized and that the joint is free of hazardous fluids.
- Disassemble the joint.
- Clean all parts thoroughly to remove any accumulated contamination or residue from all elements of the assembly, including the tube end.
- Cut a >1" section from the end of the tube to create a clean, uncompressed connection.
- Ensure there is no damage to any elements of the assembly including the gripper, threads and fitting tube seat.
  - Please see our website [www.micromold.com](http://www.micromold.com) for replacement parts available for purchase.
- Repeat the Installation, Inspection, and Testing process to reassemble the joint.

