

## Introduction

PEEKLoK™ connections are available in a range of configurations. Depending on the nut style, a different type of wrench is used.

- Flat head fitting requires a PEEKLoK wrench
- Hex head fitting requires an open-end wrench

## Instructions

### How to use PEEKLoK connections

1. Fit the nut onto the end of the PEEKsil® tubing.
2. Fit the ferrule onto the end of the tubing. The ferrule should be next to the short/threaded end of the nut.  
**For adaptor ferrules:** The wider end should be next to the nut (see bottom of figure 2).
3. Insert the tubing with nut and ferrule into the port, and gently push in the tubing until the end touches the bottom of the port.
4. Slide the nut along the tubing into the port, gently rotate the nut clockwise until the thread begins to engage.
5. Start to tighten the nut while gently pushing the tubing into the port. Find the point where the tubing is fully engaged in the union and the ferrule is just gripping the tubing.

6. **For flat head nut:** Slide the PEEKLoK wrench onto the tubing as shown, with the tubing sliding through the slot in the wrench. Fit the wrench over the nut.  
**For hex head nut:** Fit the correct size end of the open-end wrench over the nut.

7. **For first time installation:** Turn the wrench a full rotation (360°) clockwise to tighten the connection.

**When reusing ferrules:** The ferrule will be compressed from the first installation so will not require the full rotation (<360°) to tighten the connection.

8. Slide the wrench off the nut, making sure not to damage or kink the tubing.

### To remove the fitting:

Follow the above instructions in reverse sequence.

## Important

**⚠ Fittings are port specific and are not interchangeable.**

Failure to use the appropriate fitting may result in damage to the port.



Figure 1

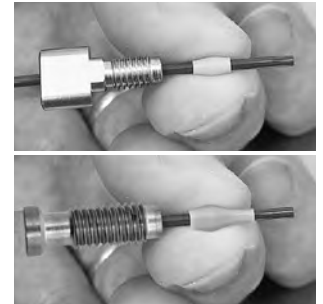


Figure 2

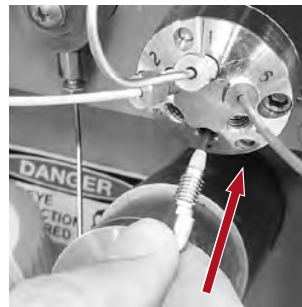


Figure 3



Figure 4

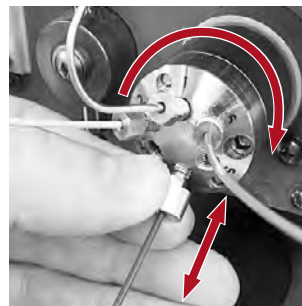


Figure 5



Figure 6



Figure 7

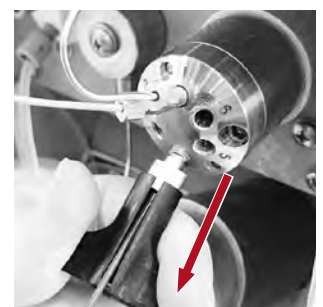


Figure 8

## Specifications

### PEEKsil specifications for use with PEEKLok connections.

- OD: 360 µm (0.36 mm), 1/32", and 1/16"
- ID: 25 µm to 530 µm
- Tubing lengths: 50 mm, 100 mm, 150 mm, 250 mm, 500 mm. Custom lengths are also available on request.
- Maximum temperature: 100°C

#### 1/16" OD PEEKsil specifications

ID	25 µm (0.001")	50 µm (0.002")	75 µm (0.003")	100 µm (0.004")	150 µm (0.006")	175 µm (0.007")	200 µm (0.008")	300 µm (0.012")	530 µm (0.021")
ID tolerance	±1 µm	±3 µm	±3 µm	±3 µm	±5 µm	±5 µm	±5 µm	±5 µm	±10 µm
ID color code	Orange	Beige (natural)	Black	Red	Purple	Yellow	Blue	Gray	Bone white
Pressure*	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	860 bar (12,500 psi)	550 bar (8,000 psi)

#### 1/32" OD PEEKsil specifications

ID	25 µm (0.001")	50 µm (0.002")	75 µm (0.003")	100 µm (0.004")	150 µm (0.006")
ID tolerance	±1 µm	±3 µm	±3 µm	±3 µm	±5 µm
ID color code	Orange	Beige (natural)	Black	Red	Purple
Pressure*	1,380 bar (20,000 psi)	1,380 bar (20,000 psi)	1,380 bar (20,000 psi)	1,310 bar (19,000 psi)	1,310 bar (19,000 psi)

#### 360 µm (0.36 mm) OD PEEKsil specifications

ID	25 µm (0.001")	50 µm (0.002")
ID tolerance	±1 µm	±3 µm
ID color code	Orange	Beige (natural)
Pressure*	2,068 bar (30,000 psi)	2,068 bar (30,000 psi)

\* Recommended PEEKsil maximum operating pressure tested at room temperature, with water, in straight lengths (no bending, coiling, or hanging).

## Information and support

Visit [www.trajanscimed.com](http://www.trajanscimed.com) or contact [techsupport@trajanscimed.com](mailto:techsupport@trajanscimed.com)

*Specifications are subject to change without notice.*