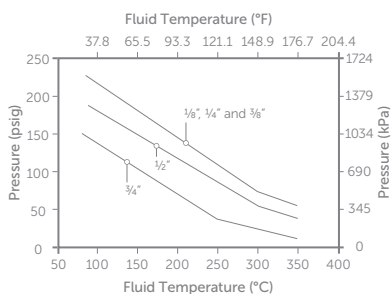


Quikgrip® Tube Fittings

Assembly procedures

PRODUCT SPECIFICATIONS

Pressure vs. Temperature



Ratings determined using a safety factor of 1.25

Chemical Compatibility

Refer to the *Entegris Fluid Handling Systems Catalog* Technical Reference Section for chemical compatibility information.

QUIKGRIP® FITTING ASSEMBLY

1. Cut tube end squarely using an Entegris tube cutter (order number 213-14 for 1/8" through 1/2" tubing or number 213-16 for 3/4" tubing). No further preparation is required.
2. Insert the square cut end of the tube through the hex side of the nut (see Figure 1).
3. Slide the black gripper onto the tube, solid ring first.

4. Slide the ferrule onto the tube with the wide shoulder of the ferrule going on first. The shoulder of the ferrule should rest evenly against the black gripper.
5. Insert tube into fitting body until internal tube stop is reached.
6. Start threading the nut to the fitting by hand. Ensure that the tube is inserted completely it cannot travel any further into the fitting.

Recommended Torque Values

7. Using a torque wrench, tighten nut to specifications in the table below. Assembly complete.

FITTING SIZE	TORQUE
1/8"	0.3 N•m (3 In•lbs)
1/4"	0.9 N•m (8 In•lbs)
3/8"	1.9 N•m (17 In•lbs)
1/2"	2.2 N•m (19 In•lbs)
3/4"	3.4 N•m (30 In•lbs)

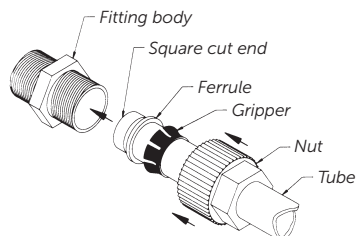


Figure 1.

Alternate Method

Wrench torque nut until black gripper and nut are “seated” with no gap between the black gripper and the nut (see Figure 2). Wrench tighten nut another half-turn (one-third turn for 1/8” fittings, quarter-turn for 3/4” fittings) beyond the “seated” condition of the gripper and nut. Assembly complete.

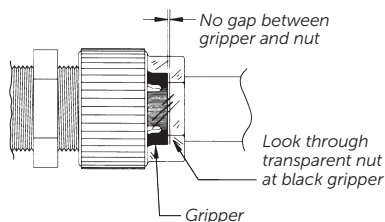


Figure 2.

TROUBLESHOOTING — QUIKGRIP TUBE FITTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The fitting leaks immediately after assembly.	The ferrule is in backwards or is missing.	The ferrule must be placed on the tube so the thicker shoulder rests on the gripper and the thin, conical end can extend into the fitting body.
A slow leak develops either immediately after assembly or after use.	The fitting was assembled using a tube that had been grooved for an integral ferrule fitting.	Cut off the grooved end of the tube or replace tube. Using grooved tube is not recommended.
	The fitting is not sufficiently tight.	The fitting should be tightened a half-turn (quarter-turn for 3/4” fitting) past seating of the gripper in the nut. (See assembly instructions.) There should be no gap visible between the gripper and the gripper stop in the nut.
	The tube has ridges or other irregularities on the outer surface.	The fitting is recommended for use with Entegris PFA tubing. Do not allow the tube to rotate while the fitting is being tightened.

FOR MORE INFORMATION

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