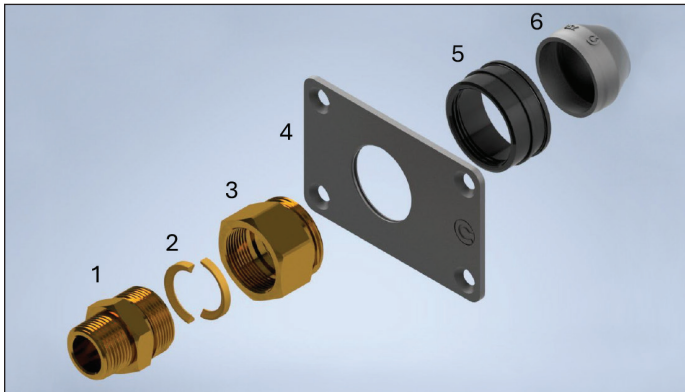


ASSEMBLY of TracPipe® System Rectangular Flange Termination Fittings with Flip Sleeve Assembly

1. FGP-AF-RF-SIZE (3/8" – 1")

Rectangular Flange Fitting Assembly Components

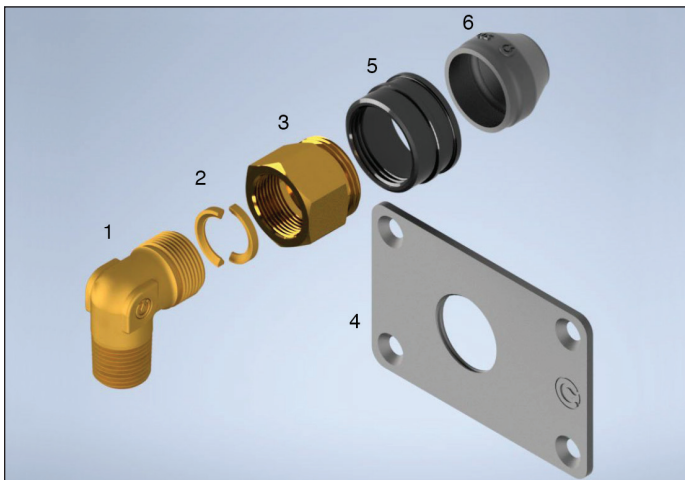
- 1. Body
- 2. Split Rings
- 3. Nut
- 4. Rectangular Steel Flange
- 5. Sleeve Adapter } Flip Sleeve Assembly
- 6. Flip Sleeve



2. FGP-AF-E-500 (1/2")

Rectangular Flange 90-Degree Fitting Assembly Components

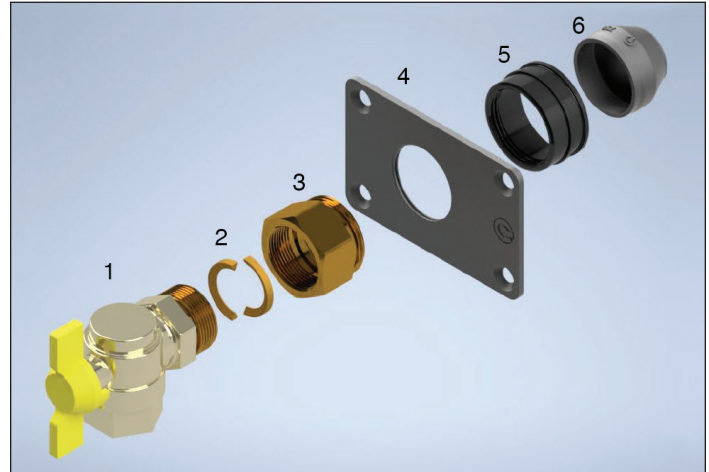
- 1. 90-Degree Elbow
- 2. Split Rings
- 3. Nut
- 4. Rectangular Steel Flange
- 5. Sleeve Adapter } Flip Sleeve Assembly
- 6. Flip Sleeve



3. FGP-AF-FV-SIZE (3/8" – 3/4")

Rectangular Flange 90-Degree Fitting Assembly Components

- 1. 90-Degree Ball Valve
- 2. Split Rings
- 3. Nut
- 4. Rectangular Steel Flange
- 5. Sleeve Adapter } Flip Sleeve Assembly
- 6. Flip Sleeve



⚠ CAUTION

For your personal safety, the knife blade and cut tube ends are both very sharp. Use care when cutting the jacket and handling the tube.

4. CUT-TO-LENGTH

Determine proper length plus approximately three inches. Make a rough cut through the outer jacket and stainless-steel tubing, using a tubing cutter with a sharp cutting wheel. Use full circular strokes in one direction and tighten roller pressure slightly (quarter turn) after each revolution. DO NOT OVER TIGHTEN ROLLER, which may flatten the tubing.

NOTICE:

A reciprocating saw can be used when rough cutting all sizes of tubing to length; however, the FINAL CUT must be performed using a suitable tubing cutter with a sharp cutting wheel.

NOTICE:

Due to the large diameter and depth of corrugations, 1 inch and above tubing must be cut with a **TracPipe** CSST cutting wheel P/N FGP-E-5272 installed in a standard RIGID 152 tubing cutter (remove standard RIGID 152 wheel and replace with FGP-E-5272). For use of P/N FGP-E-5272 cutting wheel with other tubing cutters contact the **TracPipe** engineering department.

⚠ CAUTION

The use of a small cutting wheel may flatten the first corrugation and make cutting and/or sealing fittings difficult.

5. STRIP JACKET & FINAL CUT

Using a sharp utility knife, strip back the jacket three inches. From the edge of the jacket, count out the required number of corrugations in Table 1. Make a final cut on the bare stainless in the valley between the corrugations. **DO NOT** overtighten roller which may flatten the first corrugation (Figure 1-1, Figure 1-2, Figure 1-3).

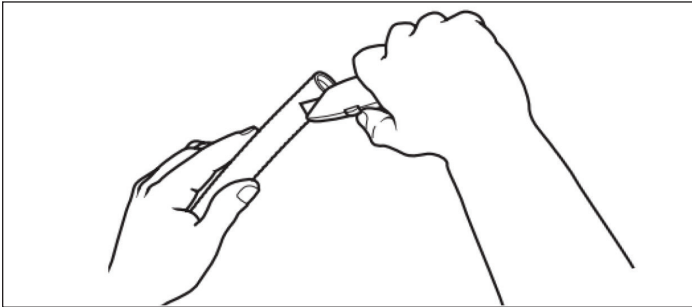


Figure: 1-1

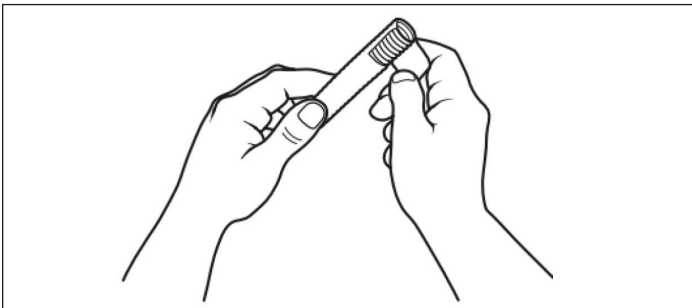


Figure: 1-2

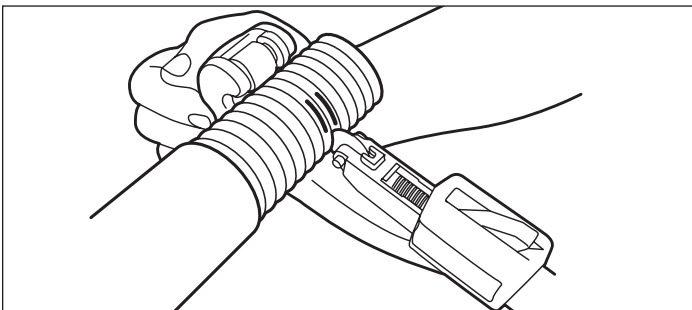


Figure: 1-3

CAUTION

To separate the two cut tubing ends, gently bend the faces of the tubing back and forth against each other. Do not twist or pull the tubing to break it loose. This may cause an improper seal.

Table 1
Final Cut Corrugation Count

TracPipe System Pipe Size	Final Corrugation Count	Cut Between Corrugations
3/8"	9	9 & 10
1/2"	8	8 & 9
3/4"	8	8 & 9
1"	8	8 & 9

6. CLEARANCE HOLES

Drill a clearance hole per Table 2 recommendations.

Table 2
Clearance Drill Hole Size

TracPipe System Pipe Size	Drill Hole Size
3/8"	1-1/2"
1/2"	1-5/8"
3/4"	1-7/8"
1"	2-1/8"

7. INSTALL FITTING

Separate the Body, Nut, and Flip Sleeve Assembly then remove the two Split Rings. Ensure the Flip Sleeve is tucked into the Sleeve Adapter then slide the Flip Sleeve Assembly and Rectangular Flange over the final cut tubing (Figure 1-4).

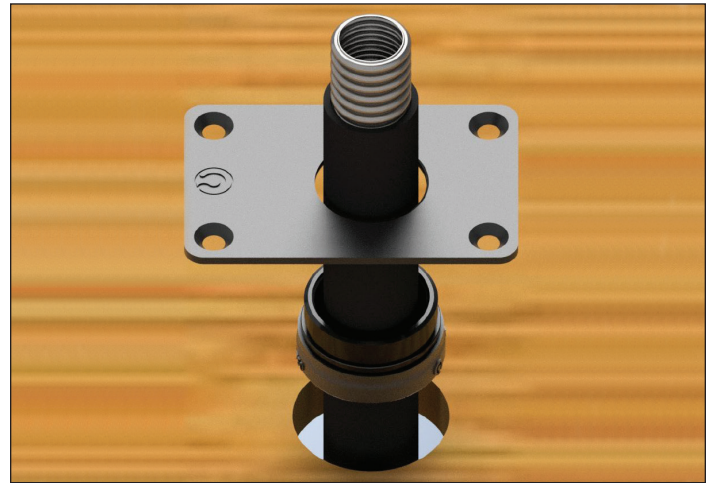


Figure: 1-4

8. Slide the Nut over the cut end until the Nut bottoms out against the jacket. Place two Split Rings into the first corrugation next to the tube cut then slide the Nut forward to trap the Split Rings (Figure 1-5).

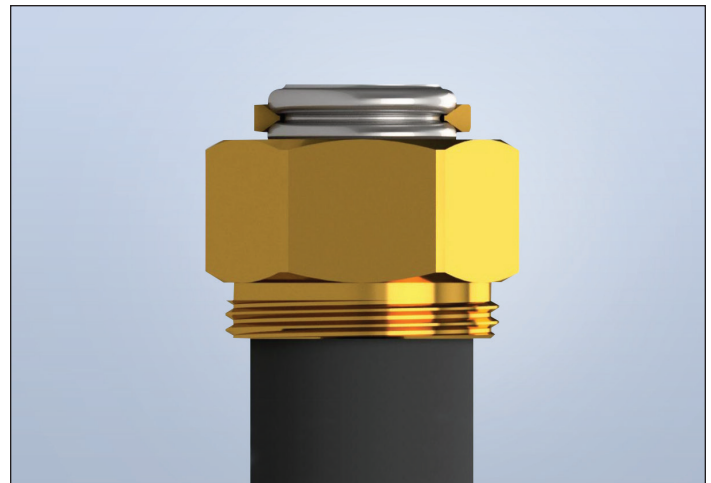


Figure: 1-5

9. Thread the Nut onto the Body to engage the threads. Using appropriate wrenches, tighten the fitting to the torque values listed in Table 3. Note that **TracPipe** System fitting is designed to form a leak tight seal on the stainless-steel tubing as the fitting is tightened (Figure 1-6). When fully tightened, there should be no threads visible between the Nut and Body.

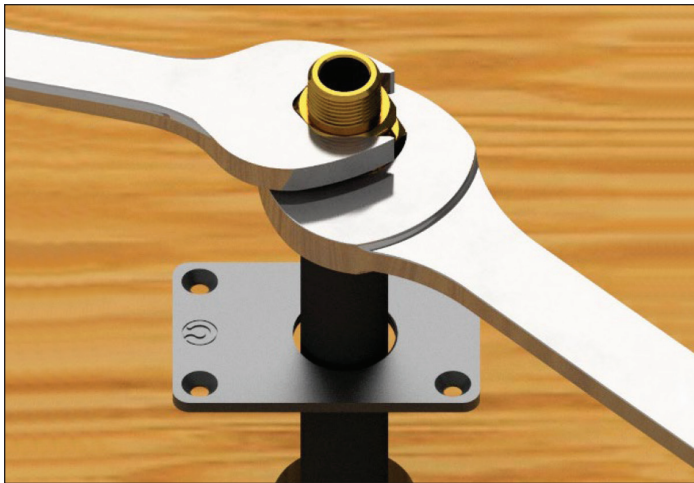


Figure: 1-6

⚠ CAUTION

Do not use any pipe dope or thread sealants on the self-flaring connection. This connection is a metal to metal seat and will not seal properly if pipe dope or thread sealants are used. Sealants are to be used on the NPT connector to the equipment only.

**Table 3
TracPipe System Torque Values**

TracPipe System Pipe Size	Nut Wrench Flat Size	Torque Range
3/8"	1-1/8"	35-50 FT-LBS
1/2"	1-1/4"	42-70 FT-LBS
3/4"	1-1/2"	45-110 FT-LBS
1"	1-3/4"	110-150 FT-LBS

10. Thread the Rectangular Flange onto the Nut until it stops. Then, in a quick motion, pull the Flip Sleeve Assembly forward. This will untuck the Flip Sleeve onto the jacket. Slide up and thread the Sleeve Adapter onto the Nut (Figure 1-7). **DO NOT** overtighten the Sleeve Adapter. With the Flip Sleeve Assembly installed, there will be no exposed stainless steel.



Figure: 1-7

11. Feed the Flange Assembly down through the clearance hole and mount the Rectangular Flange using appropriately sized screws to provide a firm mount (Figure 1-8).

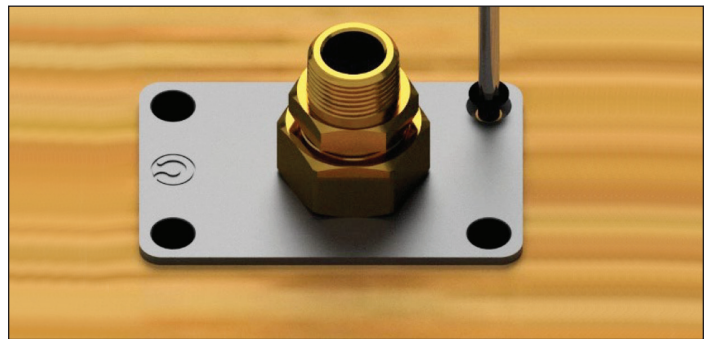


Figure: 1-8

12. Pressure test **TracPipe** System pipe and fitting in accordance with state & local codes and Section 6 of the **TracPipe** System Flexible Gas Piping Design Guide & Installation Instructions.

NOTICE:

The same mounting instructions apply when installing the following:
FGP-AF-E-500
FGP-AF-FV-SIZE

Refer to the following QR code to access assembly videos and instructions for other products.



451 Creamery Way, Exton, PA 19341-2509
800-355-1039 • Fax: 610-524-6484
www.omegaflex.com

ISO 9001 Registered Company