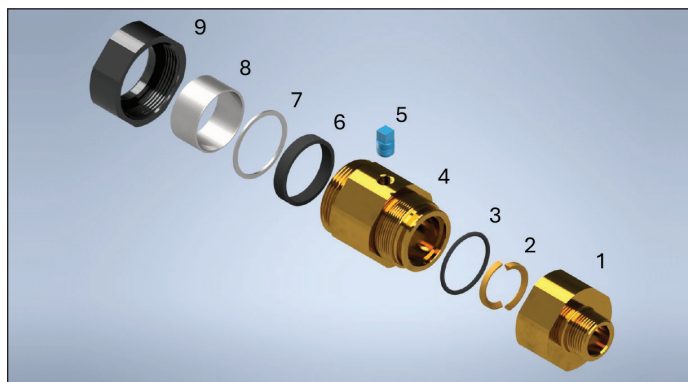


ASSEMBLY of TracPipe® PS-II Threaded Fitting

1. FGP-UGF2-SIZE (Male Adapter Fitting Assembly) Components

- 1. Front Pipe Flange
- 2. Split Rings
- 3. Front Pipe O-Ring
- 4. Flange Body
- 5. Vent Plug (1/8-27 NPT)
- 6. Rear Seal
- 7. Spiral Retaining Ring
- 8. Rear Pusher
- 9. Rear Flange



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.

2. 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 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.

3. STRIP JACKET

To determine the jacket strip length measure back 3" from the end (Figure 1-1).

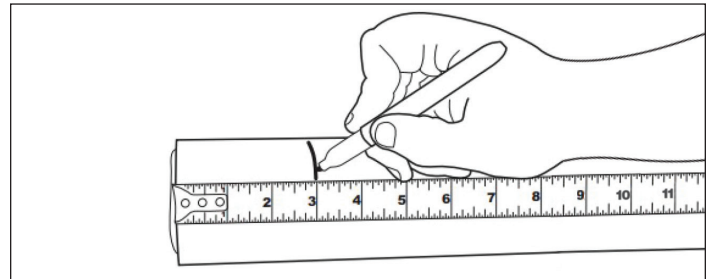


Figure: 1-1

4. Using the appropriate tubing cutter with **TracPipe** cutting wheel, score the black jacket approximately three quarters of the way through. Use extreme care NOT to cut or score the stainless corrugated pipe! (Figure 1-2)

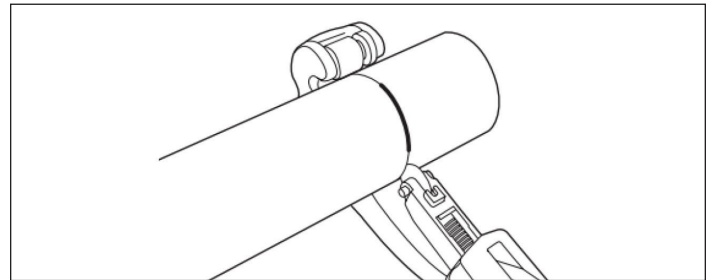


Figure: 1-2

5. Finish cutting through the jacket down to the stainless-steel corrugated tubing using a sharp utility knife (Figure 1-3).

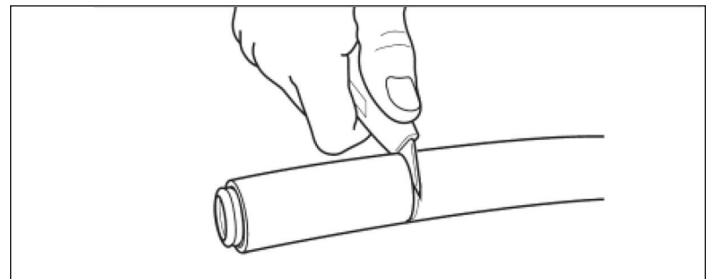


Figure: 1-3

6. Carefully cut the jacket longitudinally with a sharp utility knife for ease of removal. Do not score the **TracPipe** System tubing (Figure 1-4).

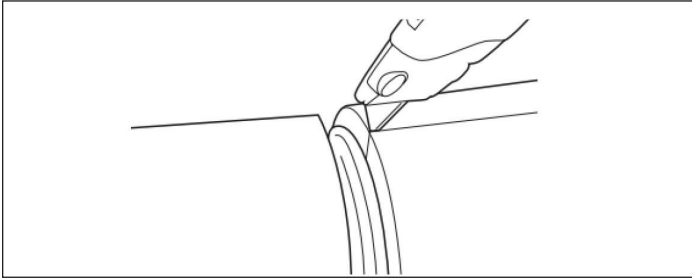


Figure: 1-4

7. Remove cut portion of the sleeve (Figure 1-5).

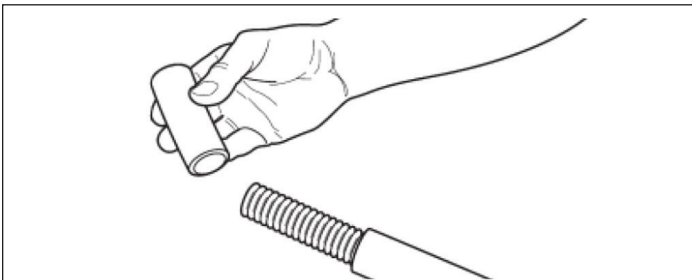


Figure: 1-5

8. FINAL CUT

Starting from the edge of the jacket, count out **SEVEN** full corrugations, and make a final cut on the bare stainless in the valley between the seventh and eighth corrugations. **DO NOT** overtighten roller which may flatten the first corrugation (Figure 1-6).



Figure: 1-6

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.

9. INSTALL FITTING

Separate the Front Pipe Flange from Flange Body and remove Split Rings. **DO NOT** remove the Rear Flange from the Flange Body. Slide the Flange Body assembly over the tubing until it bottoms out against the jacket. Place two Split Rings into the first corrugation next to the tube cut (Figure 1-7).

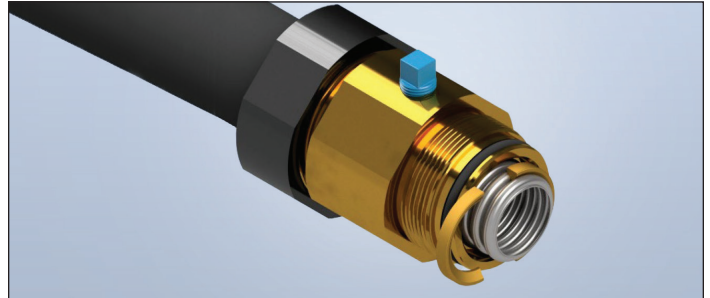


Figure: 1-7

10. Slide the Flange Body assembly forward to trap the Split Rings (Figure 1-8).

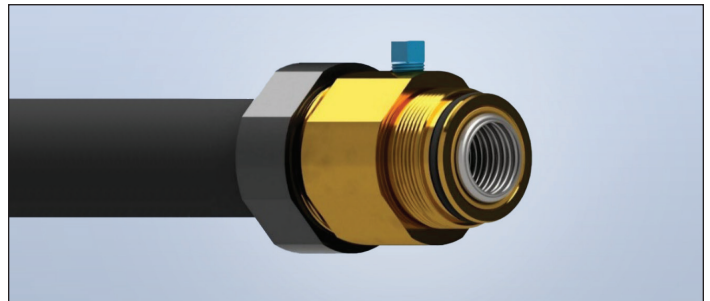


Figure: 1-8

11. While applying constant forward pressure to the Flange Body assembly, thread the Front Pipe Flange onto the Flange Body Assembly. Hand-tighten the Front Pipe Flange until slight resistance is felt. Once resistance is felt, unthread the Front Pipe Flange 1/8 turn. This will allow the fitting assembly to swivel freely.

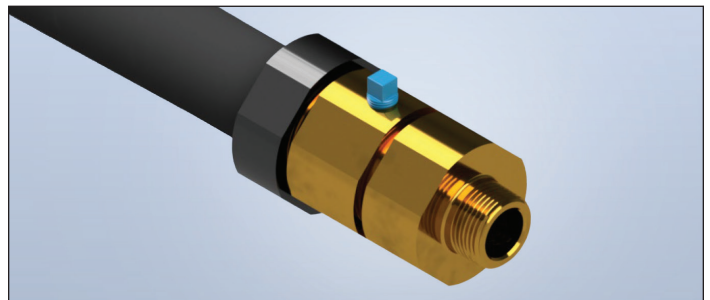


Figure: 1-9

CAUTION

If forward pressure is not maintained while installing the Front Pipe Flange, the Split Rings may dislodge from the Flange Body pocket causing an improper seal.

12. Apply pipe dope or thread sealant to the NPT threads of the Front Pipe Flange as needed. Fully tighten the NPT threads of the Front Pipe Flange into the NPT threads of the mating pipe component. Allow the Flange Body Assembly to rotate **WITH** the Front Pipe Flange ensuring the threads of the Flange Body Assembly **DO NOT** loosen or tighten into the Front Pipe Flange (Figure -10).

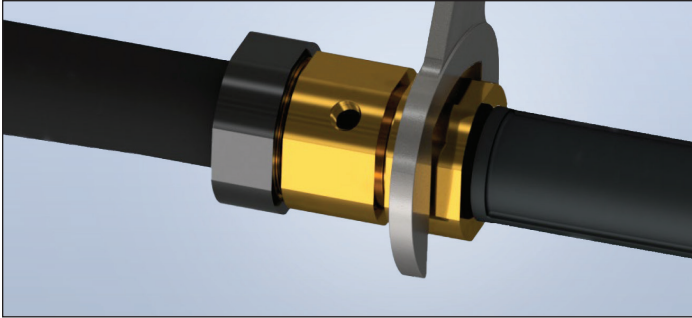


Figure: 1-10

⚠ 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.

⚠ CAUTION

Remove Vent Plug before tightening fitting to avoid damage to the plug.

13. Using appropriate wrenches, tighten the Flange Body assembly into the Front Pipe Flange to the torque values listed in Table 1. Note that **TracPipe PS-II** fitting is designed to form a leak tight seal on the stainless-steel tubing as the fitting is tightened (Figure 1-11). When fully tightened, there should be no threads visible between the Front Pipe Flange and the Flange Body.

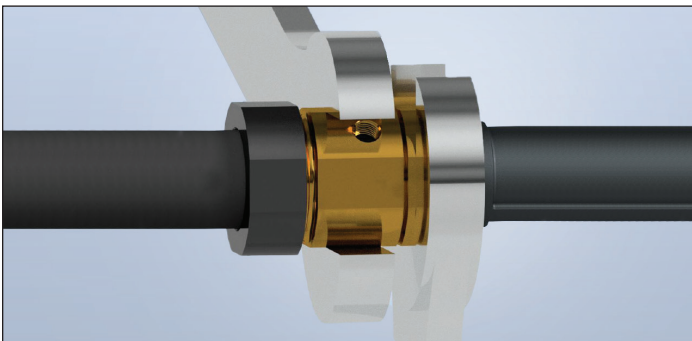


Figure: 1-11

Table 1

TracPipe PS-II Primary Sealing Torque Values

TracPipe PS-II Pipe Size	Wrench Flat Size	Torque Settings
3/8"	1-3/8"	35-50 FT-LBS
1/2"	1-5/8"	42-70 FT-LBS
3/4"	1-7/8"	45-110 FT-LBS
1"	2-1/8"	110-150 FT-LBS

14. Tighten the Rear Flange up to one full turn beyond hand tight, OR until the Rear Flange bottoms out against the Flange Body; whichever occurs first (Figure 1-12). Final torque values are listed in Table 2.

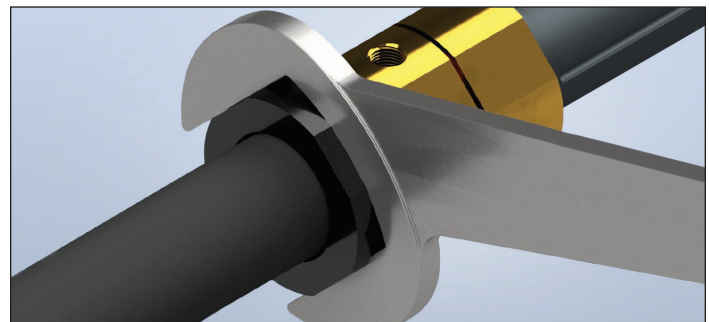


Figure: 1-12

⚠ CAUTION

Overtightening may cause damage to the Rear Flange and prevent the secondary from sealing. Do NOT use a pipe wrench to tighten Rear Flange.

Table 2

TracPipe PS-II Rear Flange Torque Values

TracPipe PS-II Pipe Size	Wrench Flat Size	Torque Settings
3/8"	1-9/16"	20 FT-LBS
1/2"	1-13/16"	20 FT-LBS
3/4"	2-1/16"	20 FT-LBS
1"	2-3/8"	20 FT-LBS

15. Pressure test **TracPipe PS-II** primary piping and fittings in accordance with state & local codes and section 6 of the **TracPipe System Flexible Gas Piping Design & Installation Instructions**.

NOTICE:

When pressure testing **TracPipe PS-II** primary piping, it is necessary to remove both Vent Plugs to ensure proper test results on the stainless steel tubing.

16. If local jurisdictions require the secondary to be tested, a gauge can be threaded into the secondary port of one end fitting and air can be introduced into the secondary port of the other end fitting. Do not exceed the pressure of the pipe (**25 PSI maximum**).

NOTICE:

Vent Plugs are 1/8-27 NPT

17. Remove Vent Plugs for venting when required by code. If the Vent Plugs are removed, the installer must ensure that water, insects, or contaminants CANNOT enter through the vent port.

NOTICE:

When installing coupling FGP-UGC2-SIZE the same instructions apply. When couplings, adapters, or other metallic fittings are installed underground, all metallic parts of the fitting must be wrapped in a code approved manner (e.g. mastic used for wrapping metallic pipe).

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