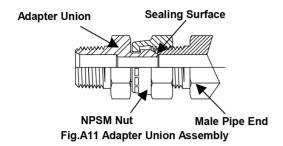
Assembly Instructions

<u>Assembly Instructions for Adapter Unions/</u> Female NPSM Pipe Swivel Ends



- 1. Inspect components for damage or contamination.
- 2. Check for 30° female seat on male pipe end.
- 3. Lubricate assembly.
- **4.** Align tube/hose to mating swivel allowing hand connection. To assure proper alignment, two to three turns of nut should be easily permitted.
- **5.** Tighten swivel nut to recommended torque listed in Table A6.
- **Notes:** 1. Refer to the appropriate assembly instruction for adapter union port ends, i.e.: male pipe, female pipe or O-ring straight thread.
- 2. Female NPSM pipe swivels seal on the male nose of the female swivel end and the 30° female seat on the male pipe end. The NPSM swivel nut uses a straight mechanical pipe thread and is not a sealing member.
- 3. Ensure that the male pipe end to be assembled has been machined with the optional 30° female seat. A standard 45° chamfer will not seal properly.

| Table Ac. Assembly Torque, Adapter Official and Fipe | | | | | |
|---|----------|----------|----------|------|-----------------------|
| Fittings. (T.F.F.T. for Tapered Pipe Only) ¹ | | | | | |
| Adapter Unions | | | Pipe | | |
| Pipe | Ft. Lbs. | Nm. Max. | Ft. Lbs. | Nm. | Tapered Pipe |
| Size | Max. | | Max. | Max. | T.F.F.T. ² |
| | | | | | (Turns) |
| 1/8 | 13 | 18 | 12 | 16 | 3/4-1 3/4 |
| 1/4 | 20 | 27 | 25 | 34 | 3/4-1 3/4 |
| 3/8 | 25 | 34 | 40 | 54 | 3/4-1 3/4 |
| 1/2 | 47 | 64 | 54 | 73 | 1/2-1 1/2 |
| 3/4 | 84 | 114 | 78 | 106 | 1/2-1 1/2 |
| 1 | 129 | 175 | 112 | 152 | 1/2-1 1/2 |
| 1-1/4 | 152 | 206 | 154 | 209 | 1/2-1 1/2 |
| 1-1/2 | 152 | 206 | 211 | 286 | 1/2-1 1/2 |
| 2 | 300 | 407 | 300 | 407 | 1/2-1 1/2 |

Table A6 Assembly Torque Adapter Unions and Pine

- 1) Lubricated assembly.
- 2) Tapered pipe connections use turns from finger tight. Turn past minimum for alignment of shape fittings.