

Fig. T57 — Types of mandrels

*Parker Tube Fittings Division offers only the plug mandrel.

Refer to Bulletin 4306-B5 for detailed bending instructions.

Plumbing and Assembly Hints

Even after choosing the appropriate type of fitting for your application, there are certain instances when a particular style has advantages over others.

1. Straight thread adjustable elbows and tees have several advantages over similar shaped fittings using tapered pipe threads:

Adjustable straight thread connections:

- Permit exact positioning
- Provide leak free joint
- Eliminate distortion and cracking of boss due to over-tightening
- Are easier to maintain

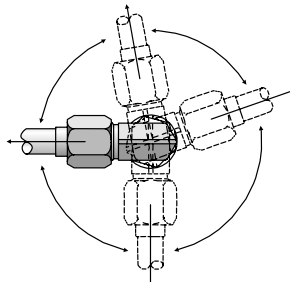


Fig. T58 — Top view of adjustable straight thread connection – allows for 360° positioning of fitting without losing its sealing capability

2. Swivel nut fitting should be used with a straight connector to allow for connections in tight spaces, where an elbow or tee fitting cannot be fully rotated (see Fig. T59).

This same combination of fittings, shown in Fig. T59, can also be used to stack tube lines or provide clearance for ports that are relatively close and within the same plane (see Fig. T60).

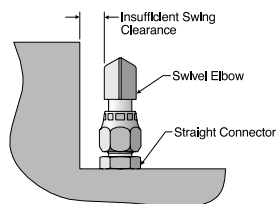


Fig. T59 — Swivel nut fitting used with straight connector in tight space

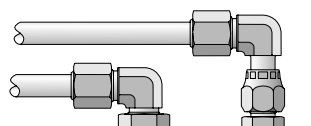


Fig. T60 — Swivel end fitting with straight connector provides clearance above regular elbow

3. Use reducers/expanders and jump size fittings.

There are some instances when it becomes necessary to connect tube lines of different sizes or tube lines to ports of different sizes. This can be accomplished by using either tube reducers, port expanders, port reducers, or jump size fittings. Achieving the reduction or enlargement is the main concern, but this should be accomplished by using the minimum number of connections (potential leak points and wrenching requirements) possible.

4. Use conversion fittings and adapters.

There are instances when it becomes necessary to use conversion adapters for connecting a fitting to a port with different style threads, for example, UNF thread fitting to a metric thread port. There are also some instances when it is necessary to connect tube ends or hose ends with different style terminations to one another or to a fitting. This can be achieved by using conversion fittings.

5. Use of other adapters and fittings for special applications are shown below.



Fig. T61 — Cutaway of LHP (Flange-Seal) shows how it simplifies tube-to-tube connection for face seal O-ring fittings

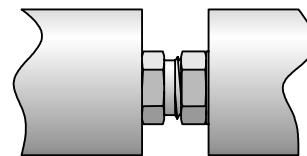


Fig. T62 — F5OHAO for close coupling of components with two SAE Straight thread ports

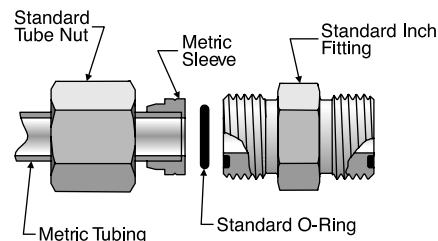


Fig. T63 — Metric sleeve adapts metric tube to standard Seal-Lok

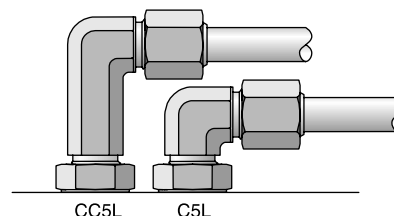


Fig. T64 — Long elbow (CC5L) stacks above regular elbow (C5L)