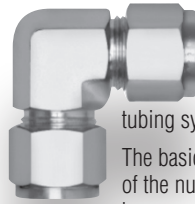


# Introduction



## **Brennan's Double-Ferrule Compression Tube Fittings**

provide leak-proof, torque-free seals at all tubing connections. They eliminate potentially hazardous and expensive leaks in instrumentation, process, pneumatic, hydraulic, gas and other tubing systems.

The basic Double-Ferrule Tube Fitting is a four-piece fitting consisting of the nut, back ferrule, front ferrule and the body. When installed, it becomes a five-piece connection with the addition of the tubing to provide a solid leak-free joint.

The two ferrules grasp tightly around the tube with no damage to the tube wall. Exhaustive tests have proved that the tubing will yield before a Brennan Double-Ferrule joint starts leaking.

The secret behind the success of the Brennan Double-Ferrule Tube Fitting lies in the two-ferrule design, which combines geometry and metallurgy. All action in the fitting is an axial movement along the tube instead of a rotary motion to create the joint. This axial movement prevents transmission of any torque from a fitting to the tubing. Since there is no initial strain in the tubing, the making of the joint does not weaken the tubing.

Another advantage of the Brennan Double-Ferrule Tube Fitting is that the swaging action of the twin ferrules overcomes variations in tubing wall thickness, hardness and dimensional tolerance.

Brennan's Double-Ferrule Tube Fittings are easy to install and require no special tools. They are reusable several times and can withstand heavy impulse and vibration in both vacuum and pressure systems.

## **Brennan Double-Ferrule Compression Tube Fitting Features:**

- Self-aligning
- Work on thick and thin wall tubing
- Resist vibration
- Work on a variety of tube materials
- All components are made of the same material for thermal compatibility and corrosion resistance
- Resist temperature cycling
- Compensate for the variables encountered in the tube and materials
- Do not significantly reduce flow area



## **Performance**

- Work in vacuums, as well as at low and high pressures
- Seal at low cryogenic temperatures, as well as elevated temperatures rated for the tube
- Seal consistently over a wide range of temperature cycling
- Seal repeatedly under both make and remake conditions
- Resist pressure beyond the tubing burst point

## **Assembly**

- Use geometry rather than torque for uniformity of make-up. (To complete the joint, it requires only a 1-1/4 turn after snug-tightening.)
- Do not require disassembly and inspection of ferrule swaging at every make-up
- Do not require any special tools for assembly

## **Service**

Brennan's Double-Ferrule Tube Fittings are available in a wide range of materials, sizes, connections and configurations from our local distributors and supported by substantial inventories at our distribution centers.