Materials of construction

The fittings are made up of three components:
Bodies are produced in acetal copolymer or polypropylene.
'O' rings are nitrile rubber or EPDM.
Collets are produced in acetal copolymer or polypropylene with stainless steel teeth.

How to make a connection

To make a connection, the tube is simply pushed in by hand. The unique patented John Guest collet locking system then holds the tube firmly in place without deforming it or restricting flow.

1. Cut tube square

Cut the tube square. It is essential that the outside diameter be free of score marks and that burrs and sharp edges be removed before inserting into fitting. For soft or thin-walled plastic tubing we recommend the use of a tube insert.

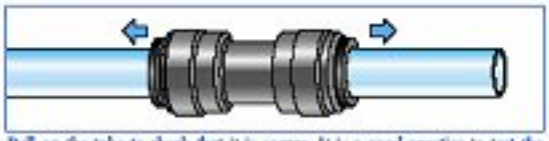
2. Insert tube

Fitting grips before it seals. Ensure tube is pushed into the tube stop.

3. Push up to tube stop

Push the tube into the fitting, to the tube stop. The collet (gripper) has stainless steel teeth, which hold the tube firmly in position, while the 'O' ring provides a permanent leak proof seal.

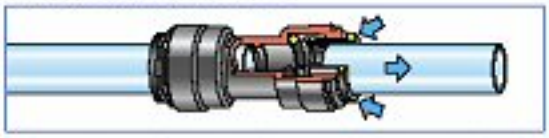
4. Pull to check secure



Pull on the tube to check that it is secure. It is a good practice to test the system prior to leaving site and/or before use.

Disconnecting

Push in collet and remove tube



To disconnect, ensure the system is depressurized before removing the tube. Push in collet squarely against face of fitting. With the collet held in this position, the tube can be removed. The fitting can then be re-used.

Installation and System Testing

Fittings and tube should be kept clean and undamaged before use.

All tube fittings installations must be pressure tested after installation to ensure system integrity before handing over to the final user. Also refer to "How to Make a Connection" on this page.

Working Pressure and Temperature Range for Acetal Fittings (PI, SI, SM & PM).

Super Speedfit® fittings are suitable for the following pressures and temperatures.

Temp.	Pressure	
	5/32" - 5/16" 4mm - 8mm	3/8" - 1/2" 10mm - 22mm
Air		
– 4°F – 20°C	230 psi (16 Bar)	150 psi (10 Bar)
Potable Liquids and Air		
+ 33°F + 1°C	230 psi (16 Bar)	150 psi (10 Bar)
+ 73°F + 23°C	230 psi (16 Bar)	150 psi (10 Bar)
+ 158°F + 70°C	150 psi (10 Bar)	100 psi (7 Bar)

Also suitable for vacuum

For Polypropylene Working Pressure and Temperature Range, please refer to page 10.

Depending on the tube used, under certain conditions fittings may be used at higher pressures and temperatures. Please consult our Technical Support Department for guidance.

Super Speedfit® Fittings and Shut-Off Valves are suitable for use with the following tube types:

Plastic Tube - Polyethylene, nylon, and polyurethane conforming to the tolerances shown on page 4. For soft or thin wall tube we recommend the use of tube inserts.

Braided Hose - Use of Tube to Hose Stems, listed on pages 7, 11 and 14, is essential, when using braided tube or hose. Use of clamps to retain braided tube on barbs is recommended.

Metal Tube (soft) - Brass, copper, or mild steel conforming to the tolerances shown on page 4.

Metal Tube (hard) - We do not recommend ***Super Speedfit®*** fittings for hard metal or chrome plated tubes. For stainless steel tube we recommend the use of ***Superseal®*** fittings. These are shown on page 11 of this brochure.

It is essential that outside diameters be free from score marks and that the tube be deburred before inserting into the fitting.