

PRODUCTS OFFER

COMPRESSION FITTINGS LEGRIS	Fluids	Materials	Maximum operating pressure (bar)	Temperature		PAGE
				Min.	Max.	
Brass compression fittings 	 Compressed air, industrial water	Brass	550	-60°C	+250°C	102
Stainless steel compression fittings 	 Compressed air, treated water	Stainless steel 316L	400	-60°C	+250°C	112

HOW TO CHOOSE YOUR COMPRESSION FITTING?

The choice depends mainly on your working environment and the tube to be connected.

Brass compression fittings are designed for standard environments with the following metal tubes:

- **Copper tube:** cold-drawn hardened copper in straight bars or annealed copper tube in coils.
- **Steel circuit tube:** cold-drawn, seamless, white-annealed, straight-bar “thin” tube.

External diameter from 6 to 16 mm (maximum thickness 1 mm)

External diameter > 16 mm (maximum thickness 1.5 mm)

Stainless steel compression fittings are ideal for use in aggressive environments with stainless steel tubes:

- **Thin, straight, cold-drawn, seamless, hyper-hardened, pickled and passivated tube.**

External diameter from 6 to 16 mm (maximum thickness 1 mm ± 0.1 mm);

- **Annealed tube in coils:** reduce the operating pressure by 35%.

In environments with strong vibrations, we recommend using our compression fittings only with straight metal tubes.

What type of fluid do you wish to convey?



Parker offers ranges dedicated to **compressed air and neutral gases**.



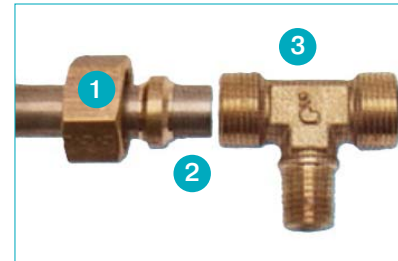
Parker presents ranges specifically designed for **water**, including:

- *Industrial water (tap water),*
- *Treated water (deionised, pure and demineralised)*

Vocabulary related to compression fittings

Compression fittings consist of three main components:

- a compression nut (1),
- a compression ring, also known as an olive (2),
- a body containing the compression seat located inside (3).



INSTALLATION GUIDE

Each Legris compression fitting is supplied with three components: body, olive and compression nut. Individual components are also available if required. It is recommended to use a new compression olive for each new installation to ensure optimal performance and reliable sealing. The rest of the assembly can be reused after the initial installation.

Installation

1- Preparing the tube



Cut the metal tube Square with the appropriate tool. Deburr the inner and outer edges. When bending the tube is necessary, do so before connecting it.

2- Preparing the connection



Slide the nut onto the tube, lubricate the body thread, the olive and the nut thread to facilitate tightening, then fit the olive onto the end of the tube.



Place the tube against the shoulder of the fitting body and pre-tighten by hand.

3- Final assembly



Screw the nut onto the spanner to crimp the ring onto the tube; the connection is complete when the recommended tightening torque is reached.

Compression fitting identification codes

0101 06 10 39

Item type

01XX: Brass

E.g.

0110: nut

0111 and 0124: olive

0122: sleeve for rubber hose

0165: barb connector for flexible tube

0166: reduction

18XX: stainless steel

E.g.

1810: nut

1820: adapter

1824: olive

1866: reduction

Nominal
diameter

04 = 4 mm

06 = 6 mm

...

20 = 20 mm

28 = 28 mm

Thread code

1/8 = 10

1/4 = 13

3/8 = 17

1/2 = 21

3/4 = 27

Suffix

39: bonded seal

40: treated steel

60: extended nut