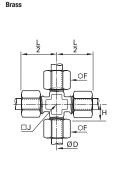


Brass Compression Fittings

0107 Equal Cross





ØD		F	Н	J	L/2	Kg
4	0107 04 00	10	9.5	8	19	0.035
5	0107 05 00	12	11	8	21	0.047
6	0107 06 00	13	11	8	22	0.052
8	0107 08 00	14	15	11	28	0.073
10	0107 10 00	19	14.5	14	30	0.142
12	0107 12 00	22	15	15	35	0.096
14	0107 14 00	24	18	20	35	0.246
15	0107 15 00	24	18	20	35	0.227
16	0107 16 00	27	21	20	39	0.312
18	0107 18 00	30	21.5	25	41	0.426
20	0107 20 00	32	21.5	25	42	0.429
22	0107 22 00	36	29	27	50	0.676
25	0107 25 00	41	29	27	50	0.819

egris 5-17



Brass Compression Fittings

These "universal" fittings provide users with numerous connection options for a wide variety of tube materials without the need for tube threading or soldering. This range guarantees excellent long-term sealing and performance.

Product Advantages

Simple to Install and Use Suitable for pneumatic and medium pressure hydraulic applications

Compatible with many industrial fluids Large product range: 22 configurations

Excellent sealing due to the tightening of the olive onto the tube

Metallic sealing guarantees maximum service life High strength brass for increased mechanical reliability

Wide Variety of Tubing

Connection of different types of tubing and hose: metal, polymer, steel, rubber, etc.

Multiple tube diameters can be connected using the Parker Legris reducer assembly system

No insert required for rigid and semi-rigid polyamide tubing below 14 mm

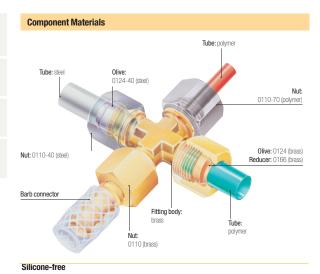


Pneumatics Cooling Automotive Process Lubrication Fluid Transmission Packaging Industrial Machinery

Technical Characteristics

Compatible Fluids	Water, machining oil, fuel, hydraulic oil, compressed air, chemical fluids, disinfectants		
Working Pressure	Vacuum to 550 bar		
Working Temperature	-40°C to +250°C		
Tightening Torque	See "Technical Characteristics" on opposite page		

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.
Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).



Maximum Bore Diameters

Tube 0.D. 4-5-6 6-8-10 10-12-14-15-18-20-22

22-25-28

The table below shows the recommended compatibility of tube size, BSPP male thread and maximum bore.

G3/4

e	BSPP Thread	Max. Bore
	G1/8	4
	G1/4	7
14	G3/8	11
16-18	G1/2	14

18

24

Tube Length for Assembly

Minimum length of tube (L) between 2 fittings

	1	····-		
an	H		mini	1

ØD	L (mm)	ØD	L (mm)	ØD	L (mm)
4	26.5	12	39	20	51
5	26	14	41	22	54
6	26	15	41	25	62
8	32	16	46.5	28	62
10	39	18	49.5		

Regulations

CNOMO: E07.21.115N

(for robotic equipment in the automotive industry)

DI: 97/23/EC (PED) RG: 1907/2006 (REACH) DI: 2002/95/EC (RoHS) **DI:** 94/9/EC (ATEX)





Technical Characteristics

Installing Compression Fittings

Cutting the Tube

Cut the polymer or metal tube square.

Preparing the Connection



For metal tubing, de-burr the tube prior to connection. Tube bending should be done before connection.

Slide the nut onto the tube; lubricate the

threads on the body and nut along with

the olive to facilitate tightening (for metal tubing as well). Fit the olive onto the end



Connecting the Tube

Push the tube up against the shoulder of the body of the fitting and hand tighten.

Final Assembly

Tighten the nut using a spanner or torque wrench to enable the olive to bite on the tube, the connection being completed when the recommended tightening torque is reached (see tables below).



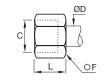
It is recommended to use an insert in order to prevent tube creeping

Recommended Nut Tightening Torque

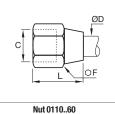
of the tube.

Tightening torque in daN.m =

maximum tightening torque of a 0110 nut and 0124 olive with copper, brass or steel tube.



Nut 0110 and 0110..40



Ø D (mm)	OF 0110	○ F 011060	Max. daN.m Copper or Brass	○ F 011040	Max. daN.m Steel
4	10	11	0.7	10	1.5
5	12	13	0.7	12	1.5
6	13	13	1.5	13	2.5
8	14	16	1.5	14	2.5
10	19	20	1.8	19	3
12	22	22	3	22	4.5
14	24	24	3.5	24	5.5
15	24	24	4	24	6
16	27	27	5	27	7
18	30	30	6	30	9
20	32	32	6	32	10
22	36	36	7	36	12
25	41	41	8	41	13
28	42		9		

Customised Fittings

Working directly with its customers and based on its knowledge and experience, Parker Legris can design customised brass compression fittings for specific requirements using the customer's specifications.

The range of compression fittings also offers nickel chemical surface treatment in order to improve the corrosion resistance and chemical compatibility of the fittings (the model number of the fitting is then given



The above recommendations are given in good faith. However, since each application is different, it is advisable to undertake tests in actual working conditions.





Technical Characteristics

The use of Parker Legris brass compression fittings is dependant on the tube material. Tables of recommended working pressure for the different tubes are shown below.

Recommended Tube Type

Copper tube: copper which has been "cold rolled", cold drawn and in straight lengths. Brass tube: in cold-rolled straight lengths (same working pressure as for copper tube). "Coiled annealed" copper tube: reduces working pressure by 35%; must be avoided completely if vibration is present.

Steel tube: "thin wall" cold drawn, seamless, bright annealed and in straight lengths. 6 mm to 16 mm O.D.: max. wall thickness 1 mm Above 16 mm O.D.: max. wall thickness 1.5 mm

Polvamide tube: semi-rigid For rigid polyamide tube, multiply the figures in this table by 1.8.

Recommended Tube-Fitting Assembly Configurations

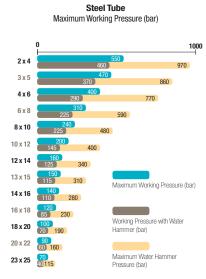
Assembled using Parker Legris brass olive and nut.

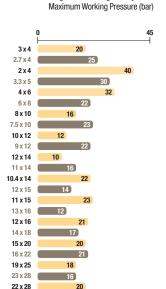
Assembled using Parker Legris steel olive and nut (nut type 0110..40).

Assembled using Parker Legris brass olive and nut.

Parker Legris Semi-Rigid Polyamide Tube

Copper Tube Maximum Working Pressure (bar) 3 x 5 4 x 6 150 6 x 8 8 x 10 10 x 12 55 12 x 14 13 x 15 42 14 x 16 40 15.6 x 18 18 x 20 35 17.6 x 20 20 x 22 30 18.8 x 22 21.8 x 25 25 26 x 28





When using a plastic nut type 0110..70, the maximum working pressure is 10 bar, for all diameters.

Working Pressure Coefficients for Semi-Rigid Polyamide Tubing

Temperature °C	-40°C / -15°C	-15°C/+30°C	+30°C/+50°C	+50°C/+70°C	+70°C/+100°C
Factor	1.8	1	0.68	0.55	0.31

Parker Legris brass compression fittings are not compatible with ammonia and its derivatives.

The above recommendations are given in good faith. However, since each application is different, it is advisable to undertake tests in actual working conditions.

! legris

24 x 28



Compression Fittings

Brass Compression Fittings



Fluids: compressed air, non-corrosive industrial fluids Materials: forged or machined brass Pressure: 550 bar

Temperature: -40°C to +250°C Ø metric: 4 mm to 28 mm

Stainless Steel Compression Fittings



Fluids: compressed air, coolants, industrial and corrosive fluids Materials: 316L stainless steel Pressure: 400 bar

Temperature: -40°C to +250°C Ø metric: 6 mm to 16 mm

PL Nickel-Plated Brass Spigot Fittings



Fluids: compressed air, compatible industrial

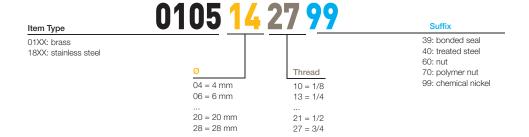
Materials: forged or machined nickel-plated

brass

Pressure: 40 bar

Temperature: -40°C to +100°C Ø metric: 4 mm to 14 mm

Compression Fitting Part Numbers



PL Fitting Part Numbers

