

Brass Compression Fitting Range

Brass Fittings

Stud Fittings

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Tube-to-Tube Fittings

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Complementary Fittings

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Self-Fastening Hose Barb Connectors

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Accessories

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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



Applications

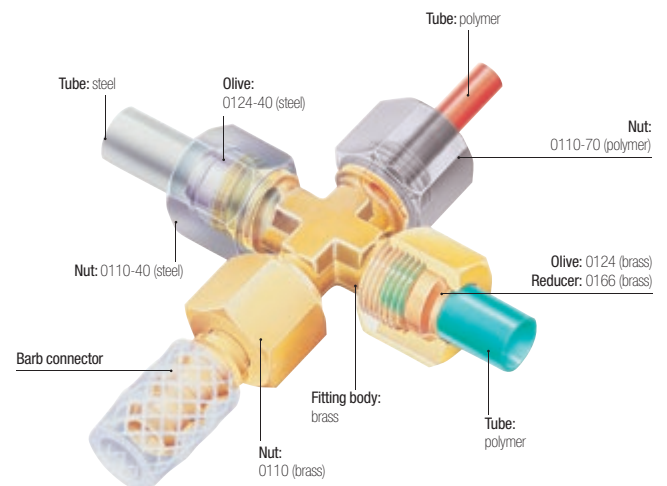
- Pneumatics
- Cooling
- Automotive Process
- Lubrication
- Fluid Transmission
- Packaging
- Industrial Machinery

Technical Characteristics

| | |
|----------------------------|---|
| Compatible Fluids | Water, machining oil, fuel, hydraulic oil, compressed air, chemical fluids, disinfectants |
| Working Pressure | Vacuum to 550 bar |
| Working Temperature | -60°C to +250°C without sealing washer, with metal tubing |
| Tightening Torque | See "Technical Characteristics" on opposite page |

Working temperature: -20°C to +100°C, with sealing washer and polyamide tubing. 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). Thread sealing must be guaranteed by user.

Component Materials



Maximum Bore Diameters

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

| Tube O.D. | BSPP Thread | Max. Bore |
|-------------|-------------|-----------|
| 4-5-6 | G1/8 | 4 |
| 6-8-10 | G1/4 | 7 |
| 10-12-14 | G3/8 | 11 |
| 14-15-16-18 | G1/2 | 14 |
| 18-20-22 | G3/4 | 18 |
| 22-25-28 | G1 | 24 |

Tube Length for Assembly

Minimum length of tube (L) between 2 fittings.



| 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 of the tube.

Connecting the Tube



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

Final Assembly



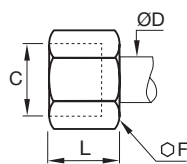
Tighten the nut using a spanner or torque wrench to enable the olive to bite on the tube, the connection being completed when the recommended tightening torque is reached (see tables below).



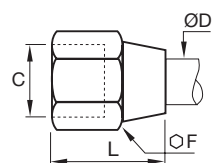
It is recommended to use an insert in order to prevent tube creeping (diameter > 14mm)

Recommended Nut Tightening Torque

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



Nut 0110..60

| Ø D (mm) | Ø F 0110 | Ø F 0110..60 | Max. daN.m Copper or Brass | Ø F 0110..40 | 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 suffix 99).

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

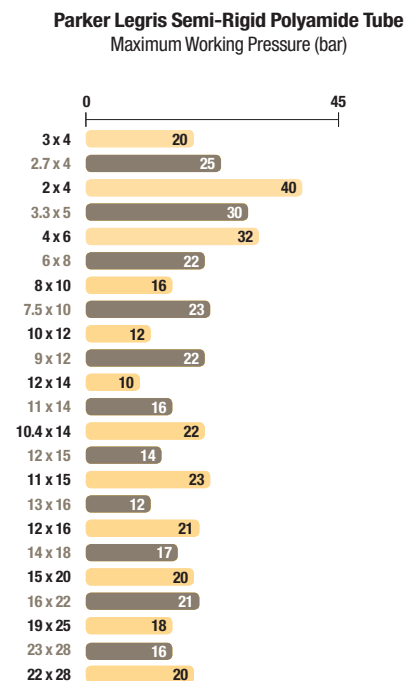
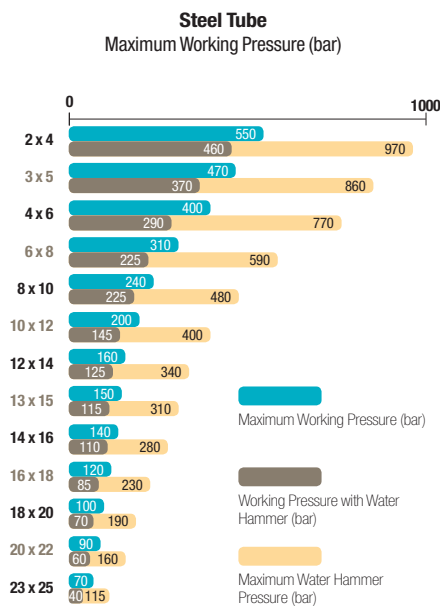
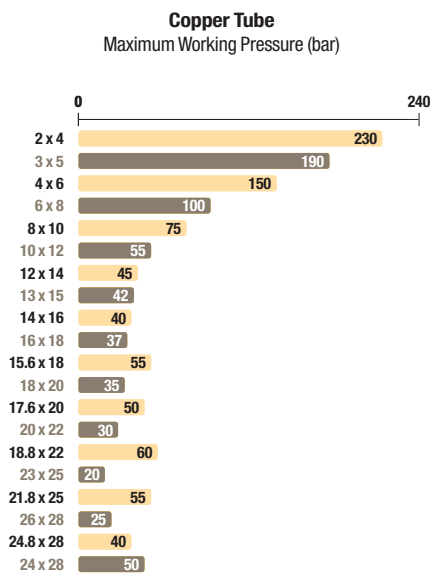
Polyamide tube: semi-rigid
For rigid polyamide tube, multiply the figures in this table by 1.8.

Recommended Tube-Fitting Assembly Configurations

Assembled using Parker Legris brass olive and nut.

Assembled using Parker Legris steel olive and nut (nut type O110..40).

Assembled using Parker Legris brass olive and nut.



When using a plastic nut type O110..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 |

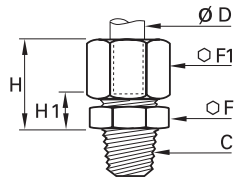
Parker Legris brass compression fittings are not compatible with ammonia and its derivatives.

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

Brass Compression Fittings

0105 Stud Fitting, Male BSPT Thread

Brass

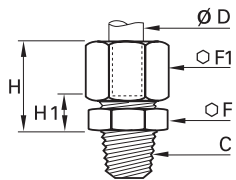


| ØD | C | | F | F1 | H max | H1 | Kg |
|----|------|----------------------------|----|----|----------|------|-------|
| 4 | R1/8 | 0105 04 10 | 10 | 10 | 17 | 7 | 0.012 |
| | R1/8 | 0105 05 10 | 11 | 12 | 17.5 | 7.5 | 0.016 |
| 5 | R1/4 | 0105 05 13 | 14 | 12 | 17.5 | 7.5 | 0.023 |
| | R1/8 | 0105 06 10 | 11 | 13 | 18 | 7.5 | 0.017 |
| 6 | R1/4 | 0105 06 13 | 14 | 13 | 18 | 7.5 | 0.024 |
| | R3/8 | 0105 06 17 | 17 | 13 | 18 | 8.5 | 0.030 |
| | R1/8 | 0105 08 10 | 13 | 14 | 19.5 | 7 | 0.020 |
| 8 | R1/4 | 0105 08 13 | 14 | 14 | 19.5 | 7 | 0.025 |
| | R3/8 | 0105 08 17 | 17 | 14 | 20.5 | 8 | 0.032 |
| | R1/8 | 0105 10 10 | 17 | 19 | 24 | 9 | 0.042 |
| 10 | R1/4 | 0105 10 13 | 17 | 19 | 24 | 9 | 0.047 |
| | R3/8 | 0105 10 17 | 17 | 19 | 24 | 9 | 0.048 |
| | R1/2 | 0105 10 21 | 22 | 19 | 25 | 10 | 0.066 |
| 12 | R1/4 | 0105 12 13 | 19 | 22 | 24 | 9 | 0.059 |
| | R3/8 | 0105 12 17 | 19 | 22 | 24 | 9 | 0.060 |
| | R1/2 | 0105 12 21 | 22 | 22 | 25 | 10 | 0.076 |
| 14 | R1/4 | 0105 14 13 | 22 | 24 | 25 | 8 | 0.067 |
| | R3/8 | 0105 14 17 | 22 | 24 | 25 | 8 | 0.068 |
| | R1/2 | 0105 14 21 | 22 | 24 | 26 | 9 | 0.080 |
| 15 | R3/4 | 0105 14 27 | 27 | 24 | 27 | 10 | 0.107 |
| | R3/8 | 0105 15 17 | 22 | 24 | 25 | 8 | 0.066 |
| | R1/2 | 0105 15 21 | 22 | 24 | 26 | 9 | 0.077 |
| 16 | R1/4 | 0105 16 13 | 24 | 27 | 27 | 9.5 | 0.090 |
| | R3/8 | 0105 16 17 | 24 | 27 | 27 | 9.5 | 0.092 |
| | R1/2 | 0105 16 21 | 24 | 27 | 27 | 9.5 | 0.099 |
| | R3/4 | 0105 16 27 | 27 | 27 | 28 | 10.5 | 0.119 |
| 18 | R1/2 | 0105 18 21 | 27 | 30 | 30 | 10.5 | 0.125 |
| | R3/4 | 0105 18 27 | 27 | 30 | 30 | 10.5 | 0.137 |
| 20 | R1/2 | 0105 20 21 | 30 | 32 | 32 | 11 | 0.146 |
| | R3/4 | 0105 20 27 | 30 | 32 | 32 | 11 | 0.157 |
| 22 | R1/2 | 0105 22 21 | 32 | 36 | 33 | 11 | 0.188 |
| | R3/4 | 0105 22 27 | 32 | 36 | 33 | 11 | 0.197 |
| | R1 | 0105 22 34 | 36 | 36 | 33 | 11 | 0.225 |
| 25 | R3/4 | 0105 25 27 | 36 | 41 | 36 | 11 | 0.263 |
| | R1 | 0105 25 34 | 36 | 41 | 36 | 11 | 0.277 |
| 28 | R3/4 | 0105 28 27 | 41 | 42 | 36 | 11 | 0.273 |
| | R1 | 0105 28 34 | 41 | 42 | 36 | 11 | 0.284 |

Metric taper threads or NPT threads are available by special order, subject to minimum quantities.

0105 Stud Fitting, Male NPT Thread

Brass



| ØD | C | | F | F1 | H max | H1 | Kg |
|----|--------|----------------------------|----|----|----------|-----|-------|
| 6 | NPT1/8 | 0105 06 11 | 11 | 13 | 18 | 7.5 | 0.018 |
| | NPT1/4 | 0105 06 14 | 14 | 13 | 18 | 7.5 | 0.027 |
| 8 | NPT1/8 | 0105 08 11 | 13 | 14 | 21 | 7 | 0.021 |
| | NPT1/4 | 0105 08 14 | 14 | 14 | 18.5 | 7 | 0.026 |
| 10 | NPT1/4 | 0105 10 14 | 17 | 19 | 24 | 9 | 0.047 |
| | NPT3/8 | 0105 10 18 | 17 | 19 | 24 | 9 | 0.047 |
| | NPT1/2 | 0105 10 22 | 22 | 19 | 25 | 10 | 0.066 |

Related Products

Parker also offers another type of brass compression fitting: **Metrolok**, with a one-piece olive/nut.

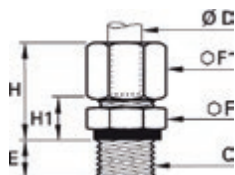
Do not hesitate to contact us.



Brass Compression Fittings

0101 Stud Fitting with Captive Sealing Washer, Male BSPP and Metric Thread

Brass, technical polymer

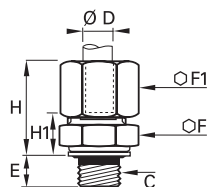


| ØD | C | | E | F | F1 | H _{max} | H1 | Kg |
|----|--------|----------------------------|-----|----|----|------------------|------|-------|
| 4 | M5x0.8 | 0101 04 19 | 5 | 10 | 10 | 16.5 | 8 | 0.011 |
| | G1/8 | 0101 04 10 | 6.5 | 13 | 10 | 16.5 | 8 | 0.016 |
| 5 | G1/8 | 0101 05 10 | 6.5 | 13 | 12 | 17.5 | 8.5 | 0.018 |
| | G1/8 | 0101 06 10 | 6.5 | 13 | 13 | 18 | 8.5 | 0.020 |
| 6 | G1/4 | 0101 06 13 | 8 | 17 | 13 | 18 | 9.5 | 0.030 |
| | G1/8 | 0101 08 10 | 6.5 | 13 | 14 | 19 | 8.5 | 0.021 |
| 8 | G1/4 | 0101 08 13 | 8 | 17 | 14 | 19.5 | 9 | 0.031 |
| | G3/8 | 0101 08 17 | 11 | 22 | 14 | 20 | 10.5 | 0.044 |
| 10 | G1/4 | 0101 10 13 | 8 | 17 | 19 | 24 | 11 | 0.048 |
| | G3/8 | 0101 10 17 | 11 | 22 | 19 | 24 | 11.5 | 0.061 |
| 12 | G1/4 | 0101 12 13 | 8 | 19 | 22 | 24 | 11 | 0.062 |
| | G3/8 | 0101 12 17 | 11 | 22 | 22 | 24 | 11.5 | 0.070 |
| 14 | G1/2 | 0101 12 21 | 12 | 27 | 22 | 24 | 12 | 0.089 |
| | G3/8 | 0101 14 17 | 11 | 22 | 24 | 25 | 10.5 | 0.074 |
| 15 | G1/2 | 0101 14 21 | 12 | 27 | 24 | 25 | 11 | 0.093 |
| | G3/8 | 0101 15 17 | 11 | 22 | 24 | 25 | 10.5 | 0.071 |
| 16 | G1/2 | 0101 15 21 | 12 | 27 | 24 | 25 | 11 | 0.094 |
| | G3/8 | 0101 16 17 | 11 | 22 | 27 | 27 | 12 | 0.091 |
| 18 | G1/2 | 0101 16 21 | 12 | 27 | 27 | 27 | 12.5 | 0.109 |
| | G3/4 | 0101 18 21 | 12 | 27 | 30 | 29.5 | 12.5 | 0.128 |
| 20 | G3/4 | 0101 18 27 | 13 | 32 | 30 | 29.5 | 13 | 0.152 |
| | G3/4 | 0101 20 27 | 13 | 32 | 32 | 31 | 13 | 0.164 |
| 22 | G3/4 | 0101 22 27 | 13 | 32 | 36 | 32 | 13 | 0.194 |
| | G1 | 0101 22 34 | 15 | 41 | 36 | 31 | 13.5 | 0.259 |
| 25 | G3/4 | 0101 25 27 | 13 | 36 | 41 | 35.5 | 13 | 0.260 |
| | G1 | 0101 25 34 | 15 | 41 | 41 | 35.5 | 13 | 0.306 |
| 28 | G1 | 0101 28 34 | 15 | 41 | 42 | 35.5 | 13.5 | 0.299 |

With pre-assembled polyamide washer
Sealing washers 0602 can be found in chapter 9.

0101..39 Stud Fitting, with Bi-Material Seal, Male BSPP Thread

Brass, zinc-plated steel with NBR seal



| ØD | C | | E | F | F1 | H _{max} | H1 | Kg |
|----|------|-------------------------------|------|----|----|------------------|------|-------|
| 4 | G1/8 | 0101 04 10 39 | 5.5 | 13 | 10 | 17.5 | 9 | 0.016 |
| 5 | G1/8 | 0101 05 10 39 | 5.5 | 13 | 12 | 18.5 | 9.5 | 0.019 |
| | G1/8 | 0101 06 10 39 | 5.5 | 13 | 13 | 19 | 9.5 | 0.020 |
| 6 | G1/4 | 0101 06 13 39 | 7 | 17 | 13 | 19 | 10.5 | 0.030 |
| | G1/8 | 0101 08 10 39 | 5.5 | 13 | 14 | 20 | 9.5 | 0.022 |
| 8 | G1/4 | 0101 08 13 39 | 7 | 17 | 14 | 20.5 | 10 | 0.031 |
| | G3/8 | 0101 08 17 39 | 9.5 | 22 | 14 | 21.5 | 12 | 0.045 |
| 10 | G1/4 | 0101 10 13 39 | 7 | 17 | 19 | 25 | 12 | 0.048 |
| | G3/8 | 0101 10 17 39 | 9.5 | 22 | 19 | 25.5 | 13 | 0.061 |
| 12 | G1/4 | 0101 12 13 39 | 7 | 19 | 22 | 25 | 12 | 0.062 |
| | G3/8 | 0101 12 17 39 | 9.5 | 22 | 22 | 25 | 13 | 0.070 |
| 14 | G1/2 | 0101 12 21 39 | 10.5 | 27 | 22 | 25 | 13.5 | 0.090 |
| | G3/8 | 0101 14 17 39 | 9.5 | 22 | 24 | 26.5 | 12 | 0.076 |
| 15 | G1/2 | 0101 14 21 39 | 10.5 | 27 | 24 | 26.5 | 12.5 | 0.094 |
| | G3/8 | 0101 15 17 39 | 9.5 | 22 | 24 | 26.5 | 12 | 0.071 |
| 16 | G1/2 | 0101 15 21 39 | 10.5 | 27 | 24 | 26.5 | 12.5 | 0.094 |
| | G3/8 | 0101 16 17 39 | 9.5 | 22 | 27 | 28.5 | 13.5 | 0.092 |
| 18 | G1/2 | 0101 16 21 39 | 10.5 | 27 | 27 | 28.5 | 14 | 0.109 |
| | G1/2 | 0101 18 21 39 | 10.5 | 27 | 30 | 31 | 14 | 0.129 |
| 20 | G3/4 | 0101 18 27 39 | 11.5 | 32 | 30 | 31 | 14.5 | 0.154 |
| | G3/4 | 0101 20 27 39 | 11.5 | 32 | 32 | 32.5 | 14.5 | 0.167 |
| 22 | G3/4 | 0101 22 27 39 | 11.5 | 32 | 36 | 32.5 | 14.5 | 0.197 |
| | G1 | 0101 22 34 39 | 13 | 41 | 36 | 33 | 15.5 | 0.259 |
| 25 | G1 | 0101 25 34 39 | 13 | 41 | 41 | 37.5 | 15.5 | 0.309 |
| 28 | G1 | 0101 28 34 39 | 13 | 41 | 42 | 37.5 | 15.5 | 0.300 |

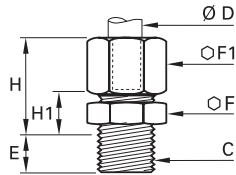
Thread with bi-material seal
Bi-material sealing washers, part number 0139, can be found in Chapter 9

Brass Compression Fittings

0101

Stud Fitting, Male Metric Thread

Brass

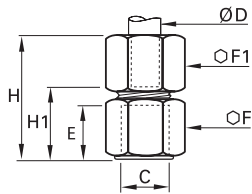


| ØD | C | | E | F | F1 | H _{max} | H1 | Kg |
|----|----------|------------|-----|----|----|------------------|------|-------|
| 4 | M7x1 | 0101 04 55 | 6.5 | 10 | 10 | 16.5 | 7.5 | 0.012 |
| | M8x1 | 0101 04 56 | 6.5 | 11 | 10 | 16.5 | 7.5 | 0.013 |
| 5 | M8x1 | 0101 05 56 | 6.5 | 11 | 12 | 17.5 | 8 | 0.015 |
| | M10x1 | 0101 05 60 | 6.5 | 14 | 12 | 17.5 | 8.5 | 0.020 |
| 6 | M10x1 | 0101 06 60 | 6.5 | 14 | 13 | 18 | 8.5 | 0.021 |
| | M10x1.5 | 0101 06 62 | 6.5 | 14 | 13 | 18 | 8.5 | 0.021 |
| 8 | M12x1 | 0101 08 65 | 8 | 17 | 14 | 19.5 | 9 | 0.029 |
| | M12x1.25 | 0101 08 66 | 8 | 17 | 14 | 19.5 | 9 | 0.029 |
| | M13x1.25 | 0101 08 68 | 8 | 17 | 14 | 19.5 | 9 | 0.030 |
| 10 | M14x1.25 | 0101 10 70 | 8 | 17 | 19 | 24 | 11 | 0.048 |
| | M14x1.5 | 0101 10 71 | 8 | 17 | 19 | 24 | 11 | 0.047 |
| | M16x1.25 | 0101 10 74 | 9 | 19 | 19 | 24 | 11 | 0.051 |
| 12 | M16x1.5 | 0101 10 75 | 9 | 19 | 19 | 24 | 11 | 0.051 |
| | M18x1.5 | 0101 10 78 | 9 | 22 | 19 | 24 | 11.5 | 0.060 |
| | M16x1.25 | 0101 12 74 | 9 | 19 | 22 | 24 | 11 | 0.061 |
| 14 | M16x1.5 | 0101 12 75 | 9 | 19 | 22 | 24 | 11 | 0.061 |
| | M18x1.5 | 0101 12 78 | 9 | 22 | 22 | 24 | 11.5 | 0.071 |
| 15 | M18x1.5 | 0101 14 78 | 9 | 22 | 24 | 25 | 10.5 | 0.071 |
| | M20x1.5 | 0101 14 80 | 10 | 24 | 24 | 25 | 11 | 0.084 |
| 16 | M18x1.5 | 0101 15 78 | 9 | 22 | 24 | 25 | 10.5 | 0.071 |
| | M20x1.5 | 0101 16 80 | 10 | 24 | 27 | 27 | 12.5 | 0.101 |
| 18 | M22x1.5 | 0101 16 82 | 10 | 27 | 27 | 27 | 12.5 | 0.110 |
| | M22x1.5 | 0101 18 82 | 10 | 27 | 30 | 29.5 | 12.5 | 0.129 |
| | M24x1.5 | 0101 18 83 | 11 | 30 | 30 | 29.5 | 13 | 0.142 |

0114

Stud Fitting, Female BSPP Thread

Brass



| ØD | C | | E | F | F1 | H _{max} | H1 | Kg |
|----|------|------------|------|----|----|------------------|------|-------|
| 4 | G1/8 | 0114 04 10 | 9.5 | 14 | 10 | 26 | 16.5 | 0.020 |
| | G1/4 | 0114 04 13 | 13.5 | 17 | 10 | 30 | 20.5 | 0.030 |
| 5 | G1/8 | 0114 05 10 | 9.5 | 14 | 12 | 28 | 17 | 0.023 |
| | G1/4 | 0114 05 13 | 13.5 | 17 | 12 | 31 | 21 | 0.033 |
| 6 | G1/8 | 0114 06 10 | 9.5 | 14 | 13 | 28 | 17 | 0.025 |
| | G1/4 | 0114 06 13 | 13.5 | 17 | 13 | 32 | 21 | 0.034 |
| 8 | G3/8 | 0114 06 17 | 14 | 22 | 13 | 32 | 21.5 | 0.051 |
| | G1/8 | 0114 08 10 | 9.5 | 14 | 14 | 29 | 16.5 | 0.026 |
| | G1/4 | 0114 08 13 | 13.5 | 17 | 14 | 33 | 20.5 | 0.035 |
| 10 | G3/8 | 0114 08 17 | 14 | 22 | 14 | 34 | 21 | 0.052 |
| | G1/4 | 0114 10 13 | 13.5 | 17 | 19 | 37 | 21.5 | 0.052 |
| | G3/8 | 0114 10 17 | 14 | 22 | 19 | 37 | 22 | 0.068 |
| 12 | G1/2 | 0114 10 21 | 18.5 | 27 | 19 | 42 | 26.5 | 0.100 |
| | G1/4 | 0114 12 13 | 13.5 | 19 | 22 | 36 | 20.5 | 0.068 |
| | G3/8 | 0114 12 17 | 14 | 22 | 22 | 37 | 22 | 0.078 |
| 14 | G1/2 | 0114 12 21 | 18.5 | 27 | 22 | 42 | 26.5 | 0.109 |
| | G1/4 | 0114 14 13 | 13.5 | 22 | 24 | 36 | 18.5 | 0.085 |
| | G3/8 | 0114 14 17 | 14 | 22 | 24 | 38 | 21 | 0.048 |
| 15 | G1/2 | 0114 14 21 | 18.5 | 27 | 24 | 43 | 25.5 | 0.112 |
| | G3/8 | 0114 15 17 | 14 | 22 | 24 | 38 | 21 | 0.078 |
| | G1/2 | 0114 15 21 | 18.5 | 27 | 24 | 43 | 25.5 | 0.109 |
| 16 | G1/4 | 0114 16 13 | 13.5 | 24 | 27 | 36 | 18 | 0.107 |
| | G3/8 | 0114 16 17 | 14 | 24 | 27 | 38 | 20.5 | 0.106 |
| | G1/2 | 0114 16 21 | 18.5 | 27 | 27 | 44 | 26 | 0.128 |
| 18 | G3/8 | 0114 18 17 | 14 | 27 | 30 | 39 | 19.5 | 0.140 |
| | G1/2 | 0114 18 21 | 18.5 | 27 | 30 | 45 | 26 | 0.144 |
| | G3/4 | 0114 18 27 | 19.5 | 32 | 30 | 46 | 27 | 0.164 |
| 20 | G3/8 | 0114 20 17 | 14 | 30 | 32 | 38 | 18 | 0.161 |
| | G1/2 | 0114 20 21 | 18.5 | 30 | 32 | 44.5 | 24 | 0.171 |
| 22 | G3/4 | 0114 20 27 | 19.5 | 32 | 32 | 47 | 26.5 | 0.171 |
| | G3/4 | 0114 22 27 | 19.5 | 32 | 36 | 48 | 26.5 | 0.203 |
| 25 | G3/4 | 0114 25 27 | 19.5 | 36 | 41 | 50.5 | 26 | 0.297 |

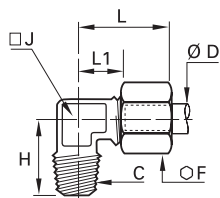
Brass Compression Fittings

Compression Fittings

Brass Compression Fittings

0109 Stud Elbow, Male BSPT Thread

Brass

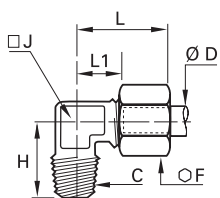


| ØD | C | | F | H | J | L _{max} | L1 | Kg |
|----|------|----------------------------|----|------|----|------------------|------|-------|
| 4 | R1/8 | 0109 04 10 | 10 | 17 | 8 | 19 | 9.5 | 0.016 |
| | R1/4 | 0109 04 13 | 10 | 20 | 10 | 19 | 11 | 0.024 |
| 5 | R1/8 | 0109 05 10 | 12 | 17.5 | 8 | 21 | 11 | 0.019 |
| | R1/4 | 0109 05 13 | 12 | 21.5 | 10 | 22 | 12 | 0.029 |
| 6 | R1/8 | 0109 06 10 | 13 | 18 | 8 | 22 | 11 | 0.021 |
| | R1/4 | 0109 06 13 | 13 | 21.5 | 10 | 22 | 12 | 0.030 |
| 8 | R1/8 | 0109 08 10 | 14 | 18.5 | 10 | 28 | 15 | 0.028 |
| | R1/4 | 0109 08 13 | 14 | 22 | 10 | 28 | 15 | 0.034 |
| | R3/8 | 0109 08 17 | 14 | 24 | 12 | 28 | 15 | 0.043 |
| 10 | R1/4 | 0109 10 13 | 19 | 25 | 12 | 30 | 14.5 | 0.053 |
| | R3/8 | 0109 10 17 | 19 | 25.5 | 12 | 30 | 14.5 | 0.059 |
| | R1/2 | 0109 10 21 | 19 | 32 | 19 | 36 | 21 | 0.108 |
| 12 | R1/4 | 0109 12 13 | 22 | 26 | 15 | 30 | 15 | 0.074 |
| | R3/8 | 0109 12 17 | 22 | 27 | 15 | 30 | 15 | 0.077 |
| | R1/2 | 0109 12 21 | 22 | 32 | 19 | 36 | 21 | 0.114 |
| 14 | R3/8 | 0109 14 17 | 24 | 30 | 19 | 35 | 18 | 0.105 |
| | R1/2 | 0109 14 21 | 24 | 32 | 19 | 35 | 18 | 0.111 |
| 15 | R3/8 | 0109 15 17 | 24 | 30 | 19 | 35 | 18 | 0.100 |
| | R1/2 | 0109 15 21 | 24 | 32 | 19 | 35 | 18 | 0.108 |
| | R3/8 | 0109 16 17 | 27 | 30 | 19 | 39 | 21 | 0.121 |
| 16 | R1/2 | 0109 16 21 | 27 | 33.5 | 19 | 39 | 21 | 0.129 |
| | R3/4 | 0109 16 27 | 27 | 36.5 | 23 | 41 | 23 | 0.185 |
| | R1/2 | 0109 18 21 | 30 | 35.5 | 23 | 41 | 21.5 | 0.179 |
| 18 | R3/4 | 0109 18 27 | 30 | 36.5 | 23 | 41 | 21.5 | 0.198 |
| | R1/2 | 0109 20 21 | 32 | 36.5 | 23 | 42 | 21.5 | 0.183 |
| | R3/4 | 0109 20 27 | 32 | 38 | 23 | 42 | 21.5 | 0.203 |
| 22 | R3/4 | 0109 22 27 | 36 | 40 | 27 | 50 | 30 | 0.287 |
| | R1 | 0109 22 34 | 36 | 44 | 27 | 50 | 30 | 0.336 |
| 25 | R3/4 | 0109 25 27 | 41 | 43 | 27 | 54 | 30 | 0.328 |
| | R1 | 0109 25 34 | 41 | 44 | 27 | 54 | 30 | 0.368 |
| 28 | R3/4 | 0109 28 27 | 42 | 46 | 32 | 54 | 30 | 0.404 |
| | R1 | 0109 28 34 | 42 | 48 | 32 | 54 | 30 | 0.382 |

Metric taper threads or NPT threads are available by special order, subject to minimum quantities.

0109 Stud Elbow, Male NPT Thread

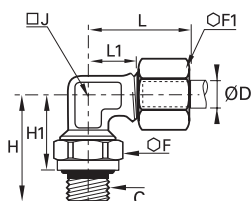
Brass



| ØD | C | | F | H | J | L _{max} | L1 | Kg |
|----|--------|----------------------------|----|------|----|------------------|------|-------|
| 6 | NPT1/8 | 0109 06 11 | 13 | 18 | 8 | 22 | 11 | 0.021 |
| | NPT1/4 | 0109 06 14 | 13 | 21.5 | 10 | 22 | 12 | 0.030 |
| 8 | NPT1/8 | 0109 08 11 | 14 | 18.5 | 10 | 28 | 15 | 0.028 |
| | NPT1/4 | 0109 08 14 | 14 | 22 | 10 | 28 | 15 | 0.033 |
| 10 | NPT1/4 | 0109 10 14 | 19 | 25 | 12 | 30 | 14.5 | 0.053 |

0199 Stud Orientable Elbow, Male BSPP Thread

Brass, NBR



| ØD | C | | F | F1 | H | H1 | H1 _{max} | J | L _{max} | L1 | Kg |
|----|------|----------------------------|----|----|------|------|-------------------|----|------------------|------|-------|
| 4 | G1/8 | 0199 04 10 | 14 | 10 | 23 | 16 | 17 | 8 | 19 | 9.5 | 0.022 |
| | G1/4 | 0199 04 13 | 19 | 10 | 30.5 | 22 | 23.5 | 10 | 19 | 11 | 0.043 |
| 6 | G1/8 | 0199 06 10 | 14 | 13 | 23 | 16 | 17 | 8 | 22 | 11 | 0.027 |
| | G1/4 | 0199 06 13 | 19 | 13 | 30.5 | 22 | 23.5 | 10 | 22 | 12 | 0.046 |
| 8 | G1/8 | 0199 08 10 | 14 | 14 | 24 | 17 | 18 | 10 | 28 | 15 | 0.034 |
| | G1/4 | 0199 08 13 | 19 | 14 | 30.5 | 22 | 23.5 | 10 | 28 | 15 | 0.049 |
| | G3/8 | 0199 08 17 | 22 | 14 | 33.5 | 24 | 25.5 | 12 | 28 | 15 | 0.065 |
| 10 | G1/4 | 0199 10 13 | 19 | 19 | 31 | 22.5 | 24 | 12 | 30 | 14.5 | 0.067 |
| | G3/8 | 0199 10 17 | 22 | 19 | 33.5 | 24 | 25.5 | 12 | 30 | 14.5 | 0.078 |
| | G1/2 | 0199 10 21 | 27 | 19 | 40 | 29.5 | 31 | 19 | 37 | 22 | 0.137 |
| 14 | G3/8 | 0199 14 17 | 22 | 24 | 35.5 | 26 | 27.5 | 19 | 35 | 18 | 0.118 |
| | G1/2 | 0199 14 21 | 27 | 24 | 40 | 29.5 | 31 | 19 | 35 | 18 | 0.140 |
| | G1/2 | 0199 18 21 | 27 | 30 | 40 | 29 | 30.5 | 23 | 41 | 21.5 | 0.187 |
| 18 | G3/4 | 0199 18 27 | 32 | 30 | 43.5 | 32 | 33.5 | 23 | 41 | 21.5 | 0.222 |
| | G3/4 | 0199 22 27 | 32 | 36 | 45.5 | 34 | 36 | 32 | 51 | 31 | 0.385 |
| 22 | G1 | 0199 22 34 | 41 | 36 | 54 | 40.5 | 43 | 32 | 51 | 31 | 0.409 |
| | G1 | 0199 28 34 | 41 | 42 | 54 | 40.5 | 43 | 32 | 54 | 30 | 0.411 |

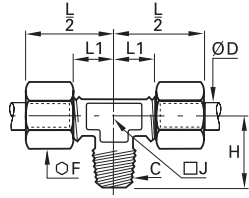
The body will orientate for positioning purposes.

Brass Compression Fittings

0108

Stud Branch Tee, Male BSPT Thread

Brass



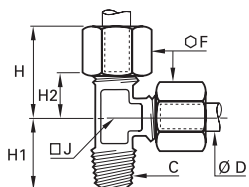
| ØD | C | | F | H | J | L1 | L/2 | Kg |
|----|------|----------------------------|----|------|----|------|-----|-------|
| 4 | R1/8 | 0108 04 10 | 10 | 17 | 8 | 9.5 | 19 | 0.025 |
| 5 | R1/8 | 0108 05 10 | 12 | 17.5 | 8 | 11 | 21 | 0.031 |
| 6 | R1/8 | 0108 06 10 | 13 | 18 | 8 | 11 | 22 | 0.033 |
| | R1/4 | 0108 06 13 | 13 | 21.5 | 10 | 16 | 27 | 0.047 |
| 8 | R1/8 | 0108 08 10 | 14 | 18.5 | 10 | 15 | 28 | 0.043 |
| | R1/4 | 0108 08 13 | 14 | 22 | 10 | 15 | 28 | 0.050 |
| 10 | R3/8 | 0108 08 17 | 14 | 24 | 12 | 15 | 28 | 0.061 |
| | R1/4 | 0108 10 13 | 19 | 25 | 12 | 14.5 | 30 | 0.085 |
| 12 | R3/8 | 0108 10 17 | 19 | 25.5 | 12 | 14.5 | 30 | 0.092 |
| | R1/4 | 0108 12 13 | 22 | 26 | 15 | 15 | 30 | 0.114 |
| 14 | R3/8 | 0108 12 17 | 22 | 27 | 15 | 15 | 30 | 0.117 |
| | R3/8 | 0108 14 17 | 24 | 30 | 19 | 18 | 35 | 0.159 |
| 15 | R1/2 | 0108 14 21 | 24 | 32 | 19 | 18 | 35 | 0.166 |
| | R3/8 | 0108 15 17 | 24 | 30 | 19 | 18 | 35 | 0.147 |
| 16 | R1/2 | 0108 15 21 | 24 | 32 | 19 | 18 | 35 | 0.155 |
| | R3/8 | 0108 16 17 | 27 | 30 | 19 | 21 | 39 | 0.190 |
| 18 | R1/2 | 0108 16 21 | 27 | 33.5 | 19 | 21 | 39 | 0.203 |
| | R1/2 | 0108 18 21 | 30 | 35.5 | 23 | 21.5 | 41 | 0.270 |
| 20 | R3/4 | 0108 18 27 | 30 | 36.5 | 23 | 21.5 | 41 | 0.292 |
| | R3/4 | 0108 20 27 | 32 | 38 | 23 | 21.5 | 42 | 0.299 |
| 22 | R3/4 | 0108 22 27 | 36 | 40 | 27 | 29 | 50 | 0.431 |
| | R1 | 0108 22 34 | 36 | 44 | 27 | 29 | 50 | 0.466 |

Metric taper threads or NPT threads are available by special order, subject to minimum quantities.

0103

Stud Run Tee, Male BSPT Thread

Brass



| ØD | C | | F | H _{max} | H1 | H2 | J | Kg |
|----|------|----------------------------|----|------------------|------|------|----|-------|
| 4 | R1/8 | 0103 04 10 | 10 | 19 | 17 | 9.5 | 8 | 0.025 |
| 5 | R1/8 | 0103 05 10 | 12 | 21 | 17.5 | 11 | 8 | 0.030 |
| 6 | R1/8 | 0103 06 10 | 13 | 22 | 18 | 11 | 8 | 0.033 |
| | R1/4 | 0103 06 13 | 13 | 27 | 21.5 | 16 | 10 | 0.046 |
| 8 | R1/8 | 0103 08 10 | 14 | 28 | 18.5 | 15 | 10 | 0.044 |
| | R1/4 | 0103 08 13 | 14 | 28 | 22 | 15 | 10 | 0.049 |
| 10 | R3/8 | 0103 08 17 | 14 | 28 | 24 | 15 | 12 | 0.061 |
| | R1/4 | 0103 10 13 | 19 | 30 | 25 | 14.5 | 12 | 0.084 |
| 12 | R3/8 | 0103 10 17 | 19 | 30 | 25.5 | 14.5 | 12 | 0.091 |
| | R1/4 | 0103 12 13 | 22 | 30 | 26 | 15 | 15 | 0.114 |
| 14 | R3/8 | 0103 12 17 | 22 | 30 | 27 | 15 | 15 | 0.121 |
| | R3/8 | 0103 14 17 | 24 | 35 | 30 | 18 | 19 | 0.161 |
| 15 | R1/2 | 0103 14 21 | 24 | 35 | 32 | 18 | 19 | 0.171 |
| | R3/8 | 0103 15 17 | 24 | 35 | 30 | 18 | 19 | 0.148 |
| 16 | R1/2 | 0103 15 21 | 24 | 35 | 32 | 18 | 19 | 0.158 |
| | R3/8 | 0103 16 17 | 27 | 39 | 30 | 21 | 19 | 0.188 |
| 18 | R1/2 | 0103 16 21 | 27 | 39 | 33.5 | 21 | 19 | 0.202 |
| | R1/2 | 0103 18 21 | 30 | 41 | 35.5 | 21.5 | 23 | 0.269 |
| 20 | R3/4 | 0103 18 27 | 30 | 41 | 36.5 | 21.5 | 23 | 0.291 |
| | R3/4 | 0103 20 27 | 32 | 42 | 38 | 21.5 | 23 | 0.298 |
| 22 | R3/4 | 0103 22 27 | 36 | 50 | 40 | 29 | 27 | 0.435 |

Metric taper threads or NPT threads are available by special order, subject to minimum quantities.

Related Products

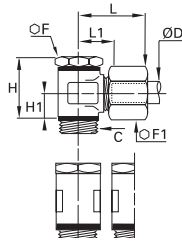
Parker also offers another type of brass compression fitting: **Metrulok**, with a one-piece olive/nut. Do not hesitate to contact us.



Brass Compression Fittings

0118 Single Banjo with Captive Sealing Washer, Male BSPP Thread

Brass, technical polymer

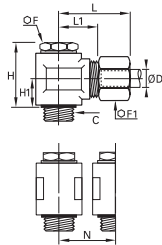


| ØD | C | | F | F1 | H | H1 | L _{max} | L1 | N | Kg |
|----|------|----------------------------|----|----|----|------|------------------|------|------|-------|
| 4 | G1/8 | 0118 04 10 | 14 | 10 | 24 | 9.5 | 24 | 14.5 | 17.5 | 0.038 |
| | G1/8 | 0118 05 10 | 14 | 12 | 24 | 9.5 | 25 | 14.5 | 17.5 | 0.041 |
| 5 | G1/4 | 0118 05 13 | 17 | 12 | 25 | 10 | 26 | 16 | 21 | 0.058 |
| | G1/8 | 0118 06 10 | 14 | 13 | 24 | 9.5 | 25 | 14.5 | 17.5 | 0.041 |
| 6 | G1/4 | 0118 06 13 | 17 | 13 | 25 | 10 | 26 | 16 | 21 | 0.056 |
| | G1/8 | 0118 08 10 | 14 | 14 | 24 | 9.5 | 28 | 15.5 | 17.5 | 0.055 |
| 8 | G1/4 | 0118 08 13 | 17 | 14 | 25 | 10 | 28 | 15.5 | 21 | 0.058 |
| | G3/8 | 0118 08 17 | 22 | 14 | 32 | 13 | 30 | 18 | 26.5 | 0.110 |
| 10 | G1/4 | 0118 10 13 | 17 | 19 | 31 | 13 | 34 | 19 | 23 | 0.117 |
| | G3/8 | 0118 10 17 | 22 | 19 | 32 | 13 | 34 | 19 | 26.5 | 0.125 |
| 12 | G1/4 | 0118 12 13 | 17 | 22 | 34 | 14.5 | 34 | 19 | 23 | 0.126 |
| | G3/8 | 0118 12 17 | 22 | 22 | 35 | 14.5 | 34 | 19 | 26.5 | 0.138 |
| 14 | G1/4 | 0118 14 13 | 17 | 24 | 37 | 16 | 37 | 20.5 | 28 | 0.154 |
| | G3/8 | 0118 14 17 | 22 | 24 | 38 | 16 | 37 | 20.5 | 28 | 0.202 |
| 15 | G1/2 | 0118 14 21 | 27 | 24 | 40 | 16 | 38 | 20.5 | 32.5 | 0.202 |
| | G3/8 | 0118 15 17 | 22 | 24 | 38 | 16 | 37 | 20.5 | 28 | 0.189 |
| 16 | G1/2 | 0118 15 21 | 27 | 24 | 40 | 16 | 38 | 20.5 | 32.5 | 0.196 |
| | G1/2 | 0118 16 21 | 27 | 27 | 42 | 16 | 38 | 21 | 32.5 | 0.219 |
| 18 | G1/2 | 0118 18 21 | 27 | 30 | 46 | 19.5 | 43 | 24.5 | 36 | 0.362 |
| 20 | G3/4 | 0118 20 27 | 32 | 32 | 49 | 20 | 44 | 24.5 | 39 | 0.406 |
| 22 | G3/4 | 0118 22 27 | 32 | 36 | 53 | 22 | 45 | 24.5 | 39 | 0.454 |

Thread with pre-assembled washer
Sealing washers 0602 can be found in chapter 9.

0118..39 Single Banjo with Bi-Material Seal, Male BSPP Thread

Brass, zinc-plated steel with NBR seal



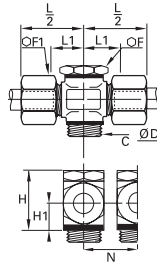
| ØD | C | | F | F1 | H | H1 | L _{max} | L1 | N | Kg |
|----|------|-------------------------------|----|----|------|------|------------------|------|------|-------|
| 4 | G1/8 | 0118 04 10 39 | 14 | 10 | 23 | 9.5 | 24 | 14.5 | 17.5 | 0.039 |
| | G1/8 | 0118 05 10 39 | 14 | 12 | 23 | 9.5 | 25 | 14.5 | 17.5 | 0.041 |
| 5 | G1/4 | 0118 05 13 39 | 17 | 12 | 24 | 10 | 26 | 16 | 21 | 0.064 |
| | G1/8 | 0118 06 10 39 | 14 | 13 | 23 | 9.5 | 25 | 14.5 | 17.5 | 0.042 |
| 6 | G1/4 | 0118 06 13 39 | 17 | 13 | 24 | 10 | 26 | 16 | 21 | 0.057 |
| | G1/8 | 0118 08 10 39 | 14 | 14 | 23 | 9.5 | 28 | 15.5 | 17.5 | 0.056 |
| 8 | G1/4 | 0118 08 13 39 | 17 | 14 | 24 | 10 | 28 | 15.5 | 21 | 0.059 |
| | G3/8 | 0118 08 17 39 | 22 | 14 | 31.5 | 13.5 | 30 | 18 | 26.5 | 0.113 |
| 10 | G1/4 | 0118 10 13 39 | 17 | 19 | 30 | 13 | 34 | 19 | 23 | 0.119 |
| | G3/8 | 0118 10 17 39 | 22 | 19 | 31.5 | 13.5 | 34 | 19 | 26.5 | 0.127 |
| 12 | G1/4 | 0118 12 13 39 | 17 | 22 | 33 | 14.5 | 34 | 19 | 23 | 0.126 |
| | G3/8 | 0118 12 17 39 | 22 | 22 | 34.5 | 15 | 34 | 19 | 26.5 | 0.136 |
| 14 | G1/4 | 0118 14 13 39 | 17 | 24 | 36 | 16 | 37 | 20.5 | 28 | 0.190 |
| | G3/8 | 0118 14 17 39 | 22 | 24 | 37.5 | 16.5 | 37 | 20.5 | 28 | 0.198 |
| 15 | G1/2 | 0118 14 21 39 | 27 | 24 | 39 | 16.5 | 38 | 20.5 | 32.5 | 0.206 |
| | G1/2 | 0118 15 21 39 | 27 | 24 | 40 | 16.5 | 38 | 20.5 | 32.5 | 0.202 |
| 16 | G1/2 | 0118 16 21 39 | 27 | 27 | 40 | 16.5 | 38 | 21 | 32.5 | 0.222 |
| | G1/2 | 0118 18 21 39 | 27 | 30 | 47 | 20 | 43 | 24.5 | 36 | 0.365 |
| 20 | G3/4 | 0118 20 27 39 | 32 | 32 | 50 | 20.5 | 44 | 24.5 | 39 | 0.394 |
| 22 | G3/4 | 0118 22 27 39 | 32 | 36 | 54 | 22.5 | 45 | 24.5 | 39 | 0.462 |

With bi-material sealing washer
The bi-material sealing washers, part number 0139, can be found in chapter 9.

Brass Compression Fittings

0119 Double Banjo with Captive Sealing Washer, Male BSPP Thread

Brass, technical polymer



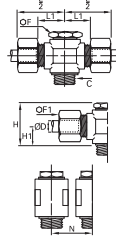
| ØD | C | | F | F1 | H | H1 | L1 | L/2 | N | Kg |
|----|------|----------------------------|----|----|----|------|------|------|------|-------|
| 4 | G1/8 | 0119 04 10 | 14 | 10 | 24 | 9.5 | 14.5 | 24 | 17.5 | 0.051 |
| | G1/8 | 0119 06 10 | 14 | 13 | 24 | 9.5 | 14.5 | 25 | 17.5 | 0.056 |
| 6 | G1/4 | 0119 06 13 | 17 | 13 | 25 | 10 | 16 | 26.5 | 21 | 0.073 |
| | G1/8 | 0119 08 10 | 14 | 14 | 24 | 9.5 | 15.5 | 28 | 17.5 | 0.070 |
| 8 | G1/4 | 0119 08 13 | 17 | 14 | 25 | 10 | 15.5 | 28 | 21 | 0.075 |
| | G3/8 | 0119 08 17 | 22 | 14 | 32 | 13 | 18 | 30.5 | 26.5 | 0.140 |
| 10 | G1/4 | 0119 10 13 | 17 | 19 | 31 | 13 | 19 | 34 | 23 | 0.156 |
| | G3/8 | 0119 10 17 | 22 | 19 | 32 | 13 | 19 | 34 | 26.5 | 0.173 |
| 12 | G1/4 | 0119 12 13 | 17 | 22 | 34 | 14.5 | 19 | 34 | 23 | 0.173 |
| | G3/8 | 0119 12 17 | 22 | 22 | 35 | 14.5 | 19 | 34 | 26.5 | 0.182 |
| 14 | G1/4 | 0119 14 13 | 17 | 24 | 37 | 16 | 20.5 | 37.5 | 28 | 0.246 |
| | G3/8 | 0119 14 17 | 22 | 24 | 38 | 16 | 20.5 | 37.5 | 28 | 0.245 |
| | G1/2 | 0119 14 21 | 27 | 24 | 40 | 16 | 20.5 | 38 | 32.5 | 0.219 |

Thread with pre-assembled washer

Sealing washers 0602 can be found in Chapter 9.

0119..39 Double Banjo with Bi-Material Seal, Male BSPP Thread

Brass, zinc-plated steel with NBR seal



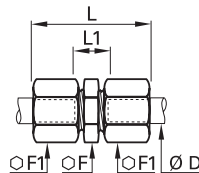
| ØD | C | | F | F1 | H | H1 | L1 | L/2 | N | Kg |
|----|------|-------------------------------|----|----|------|------|------|-----|------|-------|
| 4 | G1/8 | 0119 04 10 39 | 14 | 10 | 23 | 9.5 | 14.5 | 24 | 17.5 | 0.050 |
| | G1/8 | 0119 05 10 39 | 14 | 12 | 23 | 9.5 | 14.5 | 25 | 17.5 | 0.049 |
| 5 | G1/4 | 0119 05 13 39 | 17 | 12 | 24 | 10 | 126 | 26 | 21 | 0.072 |
| | G1/8 | 0119 06 10 39 | 14 | 13 | 23 | 9.5 | 14.5 | 25 | 17.5 | 0.057 |
| 6 | G1/4 | 0119 06 13 39 | 17 | 13 | 24 | 10 | 16 | 26 | 21 | 0.071 |
| | G1/8 | 0119 08 10 39 | 14 | 14 | 23 | 9.5 | 15.5 | 28 | 17.5 | 0.071 |
| 8 | G1/4 | 0119 08 13 39 | 17 | 14 | 24 | 10 | 15.5 | 28 | 21 | 0.075 |
| | G3/8 | 0119 08 17 39 | 22 | 14 | 31.5 | 13.5 | 18 | 30 | 26.5 | 0.137 |
| 10 | G1/4 | 0119 10 13 39 | 17 | 19 | 30 | 13 | 19 | 34 | 23 | 0.156 |
| | G3/8 | 0119 10 17 39 | 22 | 19 | 31.5 | 13.5 | 19 | 34 | 26.5 | 0.167 |
| 12 | G1/4 | 0119 12 13 39 | 17 | 22 | 33 | 14.5 | 19 | 34 | 23 | 0.180 |
| | G1/4 | 0119 14 13 39 | 17 | 24 | 36 | 16 | 20.5 | 37 | 28 | 0.248 |
| 14 | G3/8 | 0119 14 17 39 | 22 | 24 | 37.5 | 16.5 | 20.5 | 37 | 28 | 0.247 |
| | G1/2 | 0119 14 21 39 | 27 | 24 | 39 | 16.5 | 20.5 | 38 | 32.5 | 0.261 |
| 15 | G3/8 | 0119 15 17 39 | 22 | 24 | 37.5 | 16.5 | 20.5 | 37 | 28 | 0.246 |
| | G1/2 | 0119 15 21 39 | 27 | 24 | 40 | 16.5 | 20.5 | 38 | 32.5 | 0.251 |
| 18 | G1/2 | 0119 18 21 39 | 27 | 30 | 47 | 20 | 24.5 | 43 | 36 | 0.471 |
| 20 | G3/4 | 0119 20 27 39 | 32 | 32 | 50 | 20.5 | 24.5 | 44 | 39 | 0.638 |
| 22 | G3/4 | 0119 22 27 39 | 32 | 36 | 54 | 22.5 | 24.5 | 45 | 39 | 0.610 |

Thread with pre-assembled washer

Bi-material sealing washers, part number 0139, can be found in Chapter 9.

0106 Equal Tube-to-Tube Connector

Brass

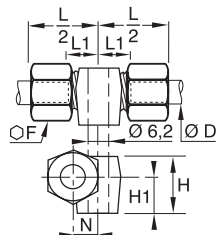


| ØD | | F | F1 | L _{max} | L1 | Kg |
|----|----------------------------|----|----|------------------|----|-------|
| 4 | 0106 04 00 | 10 | 10 | 28 | 10 | 0.017 |
| 5 | 0106 05 00 | 11 | 12 | 31 | 11 | 0.024 |
| 6 | 0106 06 00 | 11 | 13 | 32 | 11 | 0.026 |
| 8 | 0106 08 00 | 13 | 14 | 36 | 10 | 0.031 |
| 10 | 0106 10 00 | 17 | 19 | 42 | 13 | 0.070 |
| 12 | 0106 12 00 | 19 | 22 | 42 | 13 | 0.091 |
| 14 | 0106 14 00 | 22 | 24 | 45 | 11 | 0.103 |
| 15 | 0106 15 00 | 22 | 24 | 45 | 11 | 0.098 |
| 16 | 0106 16 00 | 24 | 27 | 48 | 13 | 0.142 |
| 18 | 0106 18 00 | 27 | 30 | 53 | 14 | 0.188 |
| 20 | 0106 20 00 | 30 | 32 | 56 | 14 | 0.215 |
| 22 | 0106 22 00 | 32 | 36 | 60 | 14 | 0.282 |
| 25 | 0106 25 00 | 36 | 41 | 64 | 14 | 0.401 |
| 28 | 0106 28 00 | 41 | 42 | 64 | 14 | 0.397 |

Brass Compression Fittings

0113 Equal Tube-to-Tube Connector with Mounting Boss

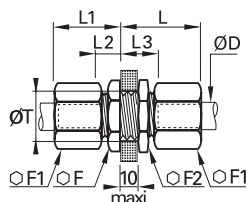
Brass



| ØD | | F | H | H1 | L1 | L/2 | N | Kg |
|----|----------------------------|----|------|------|-----|------|----|-------|
| 4 | 0113 04 00 | 10 | 10.5 | 7 | 9.5 | 19 | 6 | 0.021 |
| 6 | 0113 06 00 | 13 | 13 | 9 | 10 | 20.5 | 7 | 0.033 |
| 8 | 0113 08 00 | 14 | 14.5 | 9.5 | 11 | 23.5 | 8 | 0.040 |
| 10 | 0113 10 00 | 19 | 19.5 | 12.5 | 11 | 26 | 9 | 0.081 |
| 12 | 0113 12 00 | 22 | 22 | 14 | 12 | 26.5 | 11 | 0.108 |
| 14 | 0113 14 00 | 24 | 25 | 16 | 11 | 28 | 12 | 0.124 |

0116 Equal Bulkhead Connector

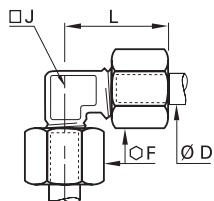
Brass



| ØD | | F | F1 | F2 | L max | L1 max | L2 | L3 | ØT min | Kg |
|----|----------------------------|----|----|----|-------|--------|------|------|--------|-------|
| 4 | 0116 04 00 | 10 | 10 | 13 | 27 | 17 | 7 | 17 | 8.3 | 0.024 |
| 5 | 0116 05 00 | 13 | 12 | 14 | 28 | 18 | 7.5 | 17.5 | 10.3 | 0.035 |
| 6 | 0116 06 00 | 13 | 13 | 14 | 28 | 19 | 7.5 | 17.5 | 10.3 | 0.037 |
| 8 | 0116 08 00 | 14 | 14 | 17 | 29 | 20 | 7 | 17 | 12.3 | 0.045 |
| 10 | 0116 10 00 | 19 | 19 | 22 | 33 | 25 | 9 | 19 | 16.5 | 0.100 |
| 12 | 0116 12 00 | 22 | 22 | 22 | 33 | 25 | 9 | 19 | 18.5 | 0.121 |
| 14 | 0116 14 00 | 24 | 24 | 27 | 35 | 25 | 8 | 18 | 20.5 | 0.144 |
| 15 | 0116 15 00 | 24 | 24 | 24 | 35 | 25 | 8 | 18 | 20.5 | 0.134 |
| 16 | 0116 16 00 | 27 | 27 | 27 | 36 | 28 | 9.5 | 19.5 | 22.5 | 0.188 |
| 18 | 0116 18 00 | 27 | 30 | 30 | 40 | 30 | 10.5 | 20.5 | 24.5 | 0.238 |
| 20 | 0116 20 00 | 32 | 30 | 32 | 41 | 31 | 11 | 21 | 27.5 | 0.275 |
| 22 | 0116 22 00 | 36 | 36 | 36 | 42 | 32 | 11 | 21 | 30.5 | 0.376 |
| 25 | 0116 25 00 | 36 | 41 | 38 | 46 | 36 | 11 | 21 | 33.5 | 0.479 |

0102 Equal Elbow

Brass



| ØD | | F | J | L max | Kg |
|----|----------------------------|----|----|-------|-------|
| 4 | 0102 04 00 | 10 | 5 | 19 | 0.016 |
| 5 | 0102 05 00 | 12 | 8 | 21 | 0.025 |
| 6 | 0102 06 00 | 13 | 8 | 22 | 0.027 |
| 8 | 0102 08 00 | 14 | 10 | 28 | 0.038 |
| 10 | 0102 10 00 | 19 | 12 | 30 | 0.072 |
| 12 | 0102 12 00 | 22 | 15 | 30 | 0.098 |
| 14 | 0102 14 00 | 24 | 19 | 35 | 0.133 |
| 15 | 0102 15 00 | 24 | 19 | 35 | 0.123 |
| 16 | 0102 16 00 | 27 | 19 | 39 | 0.165 |
| 18 | 0102 18 00 | 30 | 23 | 41 | 0.230 |
| 20 | 0102 20 00 | 32 | 23 | 42 | 0.236 |
| 22 | 0102 22 00 | 36 | 27 | 50 | 0.373 |
| 25 | 0102 25 00 | 41 | 27 | 54 | 0.452 |
| 28 | 0102 28 00 | 42 | 32 | 54.5 | 0.474 |

Related Products

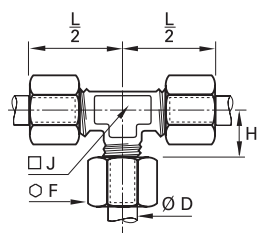
Parker also offers another type of brass compression fitting: **Metrulok**, with a one-piece olive/nut. Do not hesitate to contact us.



Brass Compression Fittings

0104 Equal Tee

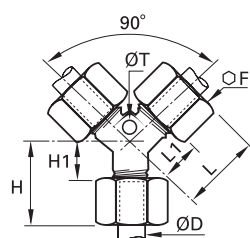
Brass



| ØD | | F | H | J | L/2 | Kg |
|----|----------------------------|----|------|----|-----|-------|
| 4 | 0104 04 00 | 10 | 9.5 | 8 | 19 | 0.028 |
| 5 | 0104 05 00 | 12 | 11 | 8 | 21 | 0.036 |
| 6 | 0104 06 00 | 13 | 11 | 8 | 22 | 0.040 |
| 8 | 0104 08 00 | 14 | 15 | 10 | 28 | 0.055 |
| 10 | 0104 10 00 | 19 | 14.5 | 12 | 30 | 0.105 |
| 12 | 0104 12 00 | 22 | 15 | 15 | 30 | 0.141 |
| 14 | 0104 14 00 | 24 | 18 | 19 | 35 | 0.186 |
| 15 | 0104 15 00 | 24 | 18 | 19 | 35 | 0.174 |
| 16 | 0104 16 00 | 27 | 21 | 19 | 39 | 0.234 |
| 18 | 0104 18 00 | 30 | 21.5 | 23 | 41 | 0.319 |
| 20 | 0104 20 00 | 32 | 21.5 | 23 | 42 | 0.330 |
| 22 | 0104 22 00 | 36 | 29 | 27 | 50 | 0.516 |
| 25 | 0104 25 00 | 41 | 29 | 27 | 54 | 0.637 |
| 28 | 0104 28 00 | 42 | 30 | 32 | 55 | 0.661 |

0142 Equal Y Piece with Mounting Boss

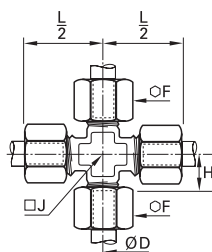
Brass



| ØD | | F | H _{max} | H1 | L _{max} | L1 | ØT | Kg |
|----|----------------------------|----|------------------|-----|------------------|------|------|-------|
| 4 | 0142 04 00 | 10 | 16.5 | 7 | 26.5 | 17 | 4.2 | 0.032 |
| 6 | 0142 06 00 | 13 | 19.5 | 8.5 | 28 | 17 | 4.2 | 0.049 |
| 8 | 0142 08 00 | 14 | 21 | 8 | 30 | 17 | 6.2 | 0.061 |
| 10 | 0142 10 00 | 19 | 24.5 | 9 | 37.5 | 22 | 6.2 | 0.128 |
| 12 | 0142 12 00 | 22 | 26 | 11 | 38 | 23 | 6.2 | 0.110 |
| 14 | 0142 14 00 | 24 | 28 | 11 | 41.5 | 24.5 | 6.2 | 0.201 |
| 15 | 0142 15 00 | 24 | 28 | 11 | 41.5 | 24.5 | 6.2 | 0.204 |
| 16 | 0142 16 00 | 27 | 30 | 12 | 43 | 25 | 6.2 | 0.252 |
| 18 | 0142 18 00 | 30 | 31.5 | 12 | 50.5 | 31 | 10.2 | 0.353 |

0107 Equal Cross

Brass



| ØD | | F | H | 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 | 0.074 |
| 10 | 0107 10 00 | 19 | 14.5 | 14 | 30 | 0.142 |
| 12 | 0107 12 00 | 22 | 15 | 15 | 35 | 0.234 |
| 14 | 0107 14 00 | 24 | 18 | 20 | 35 | 0.246 |
| 15 | 0107 15 00 | 24 | 18 | 20 | 35 | 0.224 |
| 16 | 0107 16 00 | 27 | 21 | 20 | 39 | 0.309 |
| 18 | 0107 18 00 | 30 | 21.5 | 25 | 41 | 0.423 |
| 20 | 0107 20 00 | 32 | 21.5 | 25 | 42 | 0.429 |
| 22 | 0107 22 00 | 36 | 29 | 27 | 50 | 0.670 |
| 25 | 0107 25 00 | 41 | 29 | 27 | 50 | 0.833 |

ARA[®]
PNEUMATIK

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ul. Wyscigowa 38 fax 71 364 72 83
www.arapneumatik.pl



Complementary Brass Fittings

Reducers, Olives and Nuts

This innovative reducer system, using a full range of nuts and olives, enables **different diameters** of steel, copper, brass or polymer tubes to be fitted onto **a single Parker Legris compression fitting**.

Product Advantages

Efficient Solution

Reduces envelope dimensions
Quick and easy to assemble, whatever the diameters and tube material
Improved stock management
Silicone-free

Multiple Combinations

A single connector for up to 4 different tube materials and sizes
Example:

- polymer tube 4 mm O.D.
- copper tube 8 mm O.D.
- brass tube 12 mm O.D.
- braided PVC hose 12 mm I.D.

 A full range of olives and nuts to optimise all assembly operations



Pneumatics
Cooling
Automotive Process
Lubrication
Fluid Transmission
Packaging
Industrial Machinery

Applications

Regulations

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

Reducer Assembly Procedure

| Operation | Assembly Sequence | Assembled Fitting |
|--|-------------------|-------------------|
| <p>1 Assemble the reducer Place the reducer in the fitting body.</p> | <p>1</p> | |
| <p>2 Assemble the nut and olive Place the nut and then the olive onto the tube.</p> | <p>2</p> | |
| <p>3 Assemble the nut Push the tubing into the fitting until it butts against the tube reducer. Tighten the nut to the recommended torque (see opposite page).</p> | <p>3</p> | |

Complementary Brass Fittings

Assembly Configuration

The table and information given below illustrate the large number of options available with Parker Legris brass compression fittings. To these must be added the advantages specific to the original Parker Legris reducer shown on the previous page.



| 0110 Brass | | | 0110..60 Brass | | 0110..40 Steel | 0110..70* Polymer |
|--|--|-----------------------------|--|--|--|--|
| 0124 Brass | 0111 BNA** Brass | | 0124 Brass | 0111 BNA** Brass | 0124...40 Steel | |
| No olive required to assemble the plug | | | | | | No olive required to assemble the tube |
| Brass plug: 0126 | Copper, cold-rolled brass, polymer tube and barb connectors 0122 and 0165 | Coiled annealed copper tube | Cold-rolled copper tube for vibration and side loading, etc. | Coiled annealed copper tube for vibration and side loading, etc. | Steel or copper tube: low/medium hydraulic pressure, lubricate before assembly | Polymer tube |
| | | | | | | |

*Assembly specifications for nut-olive 0110..70

This part functions as both olive and nut for flexible polymer tube assemblies:

1. Hand tighten the polymer nut-olive a few turns onto the body of the fitting; the knurling makes this easier.
2. Then introduce the polymer tube and push home into the body of the fitting.
3. Continue manually tightening the polymer nut-olive.
4. Finish tightening using a spanner until the nut body disengages and turns freely, which acts as a torque limiter.

N.B.: To avoid damaging the threads, do not insert the tube before hand tightening the nut-olive into the body of the fitting.

**Bureau de Normalisation de l'Automobile (French Automotive Bureau of Standards)

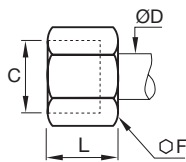
Recommended Tightening Torque

Tightening torque

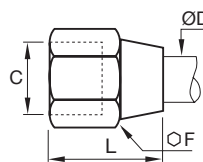
in daN.m =

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

Nut **0110** and **0110..40**



Nut **0110..60**



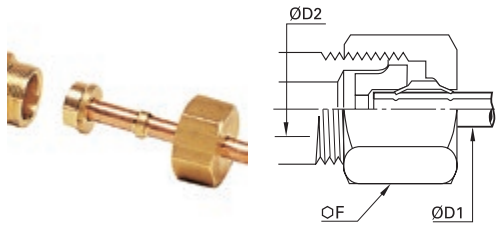
| Ø D (mm) | ØF 0110 | ØF 0110..60 | max. daN.m copper or brass | ØF 0110..40 | max. daN.m steel |
|----------|---------|-------------|----------------------------|-------------|------------------|
| 4 | 10 | 11 | 0.7 | 10 | 1.5 |
| 5 | 12 | 13 | 0.7 | 12 | 1.5 |
| 6 | 13 | 13 | 1.5 | 13 | 2.5 |
| 8 | 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 | | |


Complementary Brass Compression Fittings

0166

3-Piece Reducer

Brass



| | ØD1 | ØD2 |  | F | Kg |
|----|-----|-----|---|----|-------|
| 4 | 5 | | 0166 04 05 | 13 | 0.011 |
| | 6 | | 0166 04 06 | 13 | 0.011 |
| | 8 | | 0166 04 08 | 14 | 0.012 |
| | 10 | | 0166 04 10 | 19 | 0.030 |
| | 12 | | 0166 04 12 | 22 | 0.044 |
| 5 | 14 | | 0166 04 14 | 24 | 0.054 |
| | 15 | | 0166 04 15 | 24 | 0.056 |
| | 6 | | 0166 05 06 | 13 | 0.011 |
| | 8 | | 0166 05 08 | 14 | 0.012 |
| | 10 | | 0166 05 10 | 19 | 0.030 |
| 6 | 12 | | 0166 05 12 | 22 | 0.044 |
| | 14 | | 0166 05 14 | 24 | 0.053 |
| | 16 | | 0166 05 16 | 27 | 0.078 |
| | 8 | | 0166 06 08 | 14 | 0.011 |
| 8 | 10 | | 0166 06 10 | 19 | 0.030 |
| | 12 | | 0166 06 12 | 22 | 0.043 |
| | 14 | | 0166 06 14 | 24 | 0.052 |
| | 15 | | 0166 06 15 | 24 | 0.054 |
| 10 | 16 | | 0166 06 16 | 27 | 0.077 |
| | 10 | | 0166 08 10 | 19 | 0.027 |
| | 12 | | 0166 08 12 | 22 | 0.040 |
| | 14 | | 0166 08 14 | 24 | 0.050 |
| | 15 | | 0166 08 15 | 24 | 0.052 |
| | 16 | | 0166 08 16 | 27 | 0.077 |
| 12 | 18 | | 0166 08 18 | 30 | 0.099 |
| | 12 | | 0166 10 12 | 22 | 0.037 |
| | 14 | | 0166 10 14 | 24 | 0.045 |
| | 15 | | 0166 10 15 | 24 | 0.047 |
| | 16 | | 0166 10 16 | 27 | 0.068 |
| 14 | 18 | | 0166 10 18 | 30 | 0.095 |
| | 20 | | 0166 10 20 | 32 | 0.107 |
| | 22 | | 0166 10 22 | 36 | 0.146 |
| | 25 | | 0166 10 25 | 41 | 0.209 |
| | 14 | | 0166 12 14 | 24 | 0.042 |
| 16 | 15 | | 0166 12 15 | 24 | 0.044 |
| | 16 | | 0166 12 16 | 27 | 0.066 |
| | 18 | | 0166 12 18 | 30 | 0.091 |
| | 20 | | 0166 12 20 | 32 | 0.102 |
| 18 | 22 | | 0166 12 22 | 36 | 0.141 |
| | 25 | | 0166 12 25 | 41 | 0.200 |
| | 16 | | 0166 14 16 | 27 | 0.060 |
| | 18 | | 0166 14 18 | 30 | 0.085 |
| | 20 | | 0166 14 20 | 32 | 0.095 |
| 20 | 22 | | 0166 14 22 | 36 | 0.134 |
| | 25 | | 0166 14 25 | 41 | 0.189 |
| | 18 | | 0166 15 18 | 30 | 0.081 |
| 22 | 22 | | 0166 15 22 | 36 | 0.130 |
| | 18 | | 0166 16 18 | 30 | 0.078 |
| 24 | 20 | | 0166 16 20 | 32 | 0.087 |
| | 22 | | 0166 16 22 | 36 | 0.125 |
| | 25 | | 0166 16 25 | 41 | 0.185 |
| 26 | 20 | | 0166 18 20 | 32 | 0.082 |
| | 22 | | 0166 18 22 | 36 | 0.118 |
| | 25 | | 0166 18 25 | 41 | 0.180 |
| | 28 | | 0166 18 28 | 42 | 0.177 |
| 28 | 20 | | 0166 20 25 | 41 | 0.168 |
| | 22 | 28 | 0166 22 28 | 42 | 0.168 |

ØD1: tube to be fitted

ØD2: for a x mm fitting

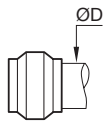
Each of the above part numbers comprises:

- a reduction piece
- an olive, PN 0124
- a sleeve nut

Complementary Brass Compression Fittings

0124 Brass Olive

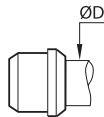
Brass



| ØD | | Kg |
|----|----------------------------|-------|
| 4 | 0124 04 00 | 0.001 |
| 5 | 0124 05 00 | 0.001 |
| 6 | 0124 06 00 | 0.001 |
| 8 | 0124 08 00 | 0.001 |
| 10 | 0124 10 00 | 0.003 |
| 12 | 0124 12 00 | 0.004 |
| 14 | 0124 14 00 | 0.005 |
| 15 | 0124 15 00 | 0.004 |
| 16 | 0124 16 00 | 0.006 |
| 18 | 0124 18 00 | 0.007 |
| 20 | 0124 20 00 | 0.009 |
| 22 | 0124 22 00 | 0.012 |
| 25 | 0124 25 00 | 0.017 |
| 28 | 0124 28 00 | 0.017 |

0124..40 Steel Olive

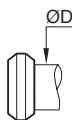
Zinc-plated steel



| ØD | | Kg |
|----|-------------------------------|-------|
| 4 | 0124 04 00 40 | 0.001 |
| 6 | 0124 06 00 40 | 0.001 |
| 8 | 0124 08 00 40 | 0.001 |
| 10 | 0124 10 00 40 | 0.003 |
| 12 | 0124 12 00 40 | 0.003 |
| 14 | 0124 14 00 40 | 0.005 |
| 15 | 0124 15 00 40 | 0.004 |
| 16 | 0124 16 00 40 | 0.006 |
| 18 | 0124 18 00 40 | 0.007 |
| 20 | 0124 20 00 40 | 0.008 |
| 22 | 0124 22 00 40 | 0.010 |
| 25 | 0124 25 00 40 | 0.014 |

0111 BNA* Brass Olive

Brass



| ØD | | Kg |
|----|----------------------------|-------|
| 4 | 0111 04 00 | 0.001 |
| 5 | 0111 05 00 | 0.001 |
| 6 | 0111 06 00 | 0.001 |
| 8 | 0111 08 00 | 0.001 |
| 10 | 0111 10 00 | 0.002 |
| 12 | 0111 12 00 | 0.002 |
| 14 | 0111 14 00 | 0.002 |
| 15 | 0111 15 00 | 0.003 |
| 16 | 0111 16 00 | 0.003 |

*Bureau de Normalisation de l'Automobile

Related Products

Parker also offers another type of brass compression fitting: **Metrulok**, with a one-piece olive/nut.

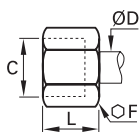
Do not hesitate to contact us.



Complementary Brass Compression Fittings

0110 Brass Nut

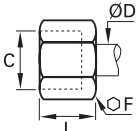
Brass



| ØD | C | | F | L | Kg |
|----|---------|----------------------------|----|----|-------|
| 4 | M8x1 | 0110 04 00 | 10 | 11 | 0.005 |
| 5 | M10x1 | 0110 05 00 | 12 | 11 | 0.006 |
| 6 | M10x1 | 0110 06 00 | 13 | 11 | 0.008 |
| 8 | M12x1 | 0110 08 00 | 14 | 13 | 0.009 |
| 10 | M16x1.5 | 0110 10 00 | 19 | 15 | 0.018 |
| 12 | M18x1.5 | 0110 12 00 | 22 | 15 | 0.026 |
| 14 | M20x1.5 | 0110 14 00 | 24 | 15 | 0.029 |
| 15 | M20x1.5 | 0110 15 00 | 24 | 15 | 0.029 |
| 16 | M22x1.5 | 0110 16 00 | 27 | 17 | 0.042 |
| 18 | M24x1.5 | 0110 18 00 | 30 | 18 | 0.055 |
| 20 | M27x1.5 | 0110 20 00 | 32 | 18 | 0.057 |
| 22 | M30x1.5 | 0110 22 00 | 36 | 19 | 0.080 |
| 25 | M33x1.5 | 0110 25 00 | 41 | 21 | 0.121 |
| 28 | M36x1.5 | 0110 28 00 | 42 | 21 | 0.108 |

0110..40 Steel Nut

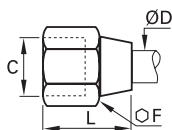
Zinc-plated steel



| ØD | C | | F | L | Kg |
|----|---------|-------------------------------|----|------|-------|
| 4 | M8x1 | 0110 04 00 40 | 10 | 11 | 0.004 |
| 5 | M10x1 | 0110 05 00 40 | 12 | 11.5 | 0.006 |
| 6 | M10x1 | 0110 06 00 40 | 13 | 12 | 0.008 |
| 8 | M12x1 | 0110 08 00 40 | 14 | 13.5 | 0.008 |
| 10 | M16x1.5 | 0110 10 00 40 | 19 | 16 | 0.018 |
| 12 | M18x1.5 | 0110 12 00 40 | 22 | 16.5 | 0.026 |
| 14 | M20x1.5 | 0110 14 00 40 | 24 | 17 | 0.030 |
| 15 | M20x1.5 | 0110 15 00 40 | 24 | 17 | 0.030 |
| 16 | M22x1.5 | 0110 16 00 40 | 27 | 18 | 0.043 |
| 18 | M24x1.5 | 0110 18 00 40 | 30 | 19 | 0.057 |
| 20 | M27x1.5 | 0110 20 00 40 | 32 | 20.5 | 0.061 |
| 22 | M30x1.5 | 0110 22 00 40 | 36 | 21.5 | 0.085 |

0110..60 Brass Long Nut

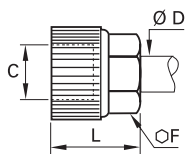
Brass



| ØD | C | | F | L | Kg |
|----|---------|-------------------------------|----|------|-------|
| 4 | M8x1 | 0110 04 00 60 | 11 | 14.5 | 0.007 |
| 5 | M10x1 | 0110 05 00 60 | 13 | 17 | 0.008 |
| 6 | M10x1 | 0110 06 00 60 | 13 | 17.5 | 0.011 |
| 8 | M12x1 | 0110 08 00 60 | 16 | 20 | 0.019 |
| 10 | M16x1.5 | 0110 10 00 60 | 20 | 23 | 0.032 |
| 12 | M18x1.5 | 0110 12 00 60 | 22 | 25 | 0.039 |
| 14 | M20x1.5 | 0110 14 00 60 | 24 | 30 | 0.051 |
| 15 | M20x1.5 | 0110 15 00 60 | 24 | 30 | 0.049 |
| 18 | M24x1.5 | 0110 18 00 60 | 30 | 35 | 0.098 |
| 20 | M27x1.5 | 0110 20 00 60 | 32 | 35 | 0.102 |
| 22 | M30x1.5 | 0110 22 00 60 | 36 | 36 | 0.129 |

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Technical polymer



| ØD | C | | F | L | Kg |
|----|---------|-------------------------------|----|----|-------|
| 4 | M8x1 | 0110 04 00 70 | 8 | 13 | 0.008 |
| 6 | M10x1 | 0110 06 00 70 | 11 | 15 | 0.002 |
| 8 | M12x1 | 0110 08 00 70 | 13 | 16 | 0.002 |
| 10 | M16x1.5 | 0110 10 00 70 | 17 | 19 | 0.004 |
| 12 | M18x1.5 | 0110 12 00 70 | 19 | 19 | 0.005 |
| 14 | M20x1.5 | 0110 14 00 70 | 22 | 20 | 0.005 |

NB: polymer nut-olives should not be used on metal tubes.