Manufactured in 316L stainless steel, these fittings combine all the advantages of the "universal" compression fitting with excellent resistance to environmental conditions and corrosive fluids. They are pressure and temperature-resistant and are able to withstand strong vibration and water hammer.

Product Advantages

For Use in Many **Environments**

Manufactured in 316L stainless steel Suitable for all environments and fluids

Resistant to water hammer and vibration

Excellent sealing and retention of the tube

Suitable for pneumatic and medium pressure hydraulic applications

Metallic sealing guarantees maximum service life

Many Tube **Options**

Possibility of easily connecting different tube materials and diameters to the same fitting body

No tube support required for rigid and semi-rigid polyamide tubing below 12 mm

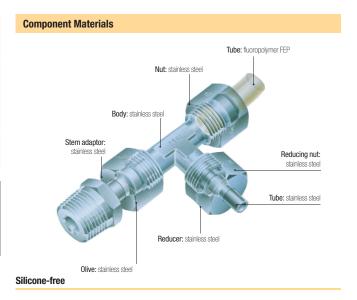


Food Process Fluid Transmission Pneumatics Automotive Process Petrochemical Chemical Offshore Oil & Gas

Technical Characteristics

| Compatible Fluids | Many fluids | | | | | | | |
|------------------------|---|---|---|----|-----|-----|--|--|
| Working Pressure | Vacuum to 400 bar (80 bar in corrosive environments) | | | | | | | |
| Working Temperature | -40°C to +250°C | | | | | | | |
| Tightening | DN | 6 | 8 | 10 | 12 | 16 | | |
| Torques | daN.m | 2 | 3 | 4 | 6.5 | 9.5 | | |

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



Maximum Bore Diameters

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

| Tube 0.D | BSPP Thread | Max. Bore |
|-------------|----------------|--------------|
| 6 | G1/8 | 4 |
| 6-8-10 | G1/4 | 7 |
| 10-12 | G3/8 | 11 |
| 16 | G1/2 | 14 |

Tube Length for Assembly

Minimum length of tube (L) between 2 fittings.



| ØD | L mm | ØD | L mm |
|----|---------|----|---------|
| 4 | 26.5 | 10 | 39 |
| 6 | 26 | 12 | 39 |
| 8 | 32 | 16 | 46.5 |

Regulations

DI: 2002/95/EC (RoHS), 2011/65/EC **DI:** 97/23/EC (PED)

RG: 1935/2004 RG: 1907/2006 (REACH) DI: 94/09/EC (ATEX) FDA: 21 CFR 177.1550

NACE MR0175: compatible materials ISO 15156-1/-2/-3: compatible materials



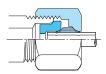
Stainless Steel Compression Fittings

Installation

Fitting

The fitting comprises three parts (body/olive/ nut). For assembly procedure, please see Brass Compression Fitting page.

Diagram: Assembled Fitting



A very slight distortion of the tube appears; this shows the fitting has been correctly tightened.

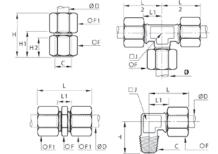
Orientable Elbow Assembly

Elbow Adaptor 1802 1820



Customised Fittings

If our standard range does not meet your needs, Parker Legris can develop customised solutions for your applications.



Technical Characteristics

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

Recommended Tube Type

Semi-rigid polyamide or fluoropolymer tube

Stainless steel tube

"Thin Wall" cold-drawn seamless, annealed and passivated: wall thickness tolerance +/-0.1 mm.

For use with "thin wall" stainless steel tube from 6 mm to 16 mm O.D., maximum wall thickness 1 mm.

Recommended Tube/Fitting Assembly Configurations

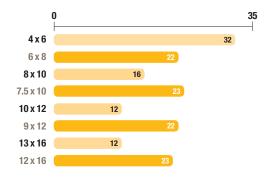
Assembled using Parker Legris olive and nut in stainless steel, with a tube support.

Stainless steel tube

Stainless steel tube: in cold-rolled straight lengths

Coiled annealed stainless tube: reduces working pressure by 35%; do not use if there is vibration.

Semi-Rigid Polyamide Tube Maximum Working Pressure (bar)



Stainless Steel Tube

Maximum Working Pressure (bar)



Working Pressure Coefficients for Semi-Rigid Tubing

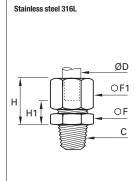
| Temperature °C | -40°C / -15°C | -15°C / +30°C | +30°C / +50°C | +50°C/+70°C | +70°C/+100°C |
|----------------|---------------|---------------|---------------|-------------|--------------|
| Factor | 1.8 | 1 | 0.68 | 0.55 | 0.31 |

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

Stainless Steel Compression Fittings

1805 Stud Fitting, Male BSPT Thread



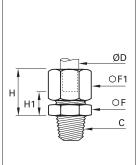


| ØD | C | | F | F1 | H max | H1 | kg |
|----|------|------------|----|----|----------|-----|-------|
| 6 | R1/8 | 1805 06 10 | 12 | 13 | 19.5 | 7.5 | 0.017 |
| | R1/4 | 1805 06 13 | 14 | 13 | 19.5 | 7.5 | 0.025 |
| 8 | R1/8 | 1805 08 10 | 13 | 14 | 21 | 7 | 0.019 |
| 0 | R1/4 | 1805 08 13 | 14 | 14 | 21 | 7 | 0.024 |
| | R1/4 | 1805 10 13 | 17 | 19 | 25.5 | 9 | 0.044 |
| 10 | R3/8 | 1805 10 17 | 17 | 19 | 25.5 | 9 | 0.049 |
| | R1/2 | 1805 10 21 | 22 | 19 | 26.5 | 10 | 0.076 |
| | R1/4 | 1805 12 13 | 19 | 22 | 26 | 9 | 0.054 |
| 12 | R3/8 | 1805 12 17 | 19 | 22 | 26 | 9 | 0.058 |
| | R1/2 | 1805 12 21 | 22 | 22 | 27 | 10 | 0.081 |
| 16 | R3/8 | 1805 16 17 | 24 | 27 | 28.5 | 9.5 | 0.086 |
| | R1/2 | 1805 16 21 | 24 | 27 | 28.5 | 9.5 | 0.094 |
| | | | | | | | |

1805 Stud Fitting, Male NPT Thread

Stainless steel 316L

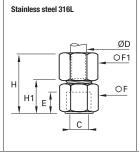




| ØD | C | 1 | F F1 H max | H1 | kg |
|----|--------|------------|------------|-----|-------|
| 6 | NPT1/8 | 1805 06 11 | 12 13 19.5 | 7.5 | 0.018 |
| | NPT1/4 | 1805 06 14 | 14 13 19.5 | 7.5 | 0.027 |
| O | NPT3/8 | 1805 06 18 | 19 13 20.5 | 8.5 | 0.033 |
| | NPT1/2 | 1805 06 22 | 22 13 21.5 | 9.5 | 0.049 |
| 8 | NPT1/8 | 1805 08 11 | 13 14 21 | 7 | 0.020 |
| 0 | NPT1/4 | 1805 08 14 | 14 14 21 | 7 | 0.027 |
| | NPT1/4 | 1805 10 14 | 17 19 25.5 | 9 | 0.045 |
| 10 | NPT3/8 | 1805 10 18 | 19 19 25.5 | 9 | 0.055 |
| | NPT1/2 | 1805 10 22 | 22 19 26.5 | 10 | 0.083 |
| | NPT1/4 | 1805 12 14 | 19 22 26 | 9 | 0.056 |
| 12 | NPT3/8 | 1805 12 18 | 19 22 26 | 9 | 0.061 |
| | NPT1/2 | 1805 12 22 | 22 22 27 | 10 | 0.087 |
| 16 | NPT3/8 | 1805 16 18 | 24 27 28.5 | 9.5 | 0.087 |
| | NPT1/2 | 1805 16 22 | 24 27 28.5 | 9.5 | 0.097 |
| | - | | | | |

1814 Stud Fitting, Female BSPP Thread





| ØD | C | | | E | F | F1 | H max | H1 | kg |
|----|------|------------|---|------|----|----|----------|------|----------|
| 6 | G1/8 | 1814 06 10 | | 7.5 | 14 | 13 | 29 | 17 | 0.023 |
| Ü | G1/4 | 1814 06 13 | | 11 | 17 | 13 | 29 | 21 | 0.032 |
| 8 | G1/4 | 1814 08 13 | | 11 | 17 | 14 | 34.5 | 20.5 | 0.033 |
| 10 | G3/8 | 1814 10 17 | | 11.5 | 22 | 19 | 38.5 | 22 | 0.064 |
| | G1/2 | 1814 10 21 | , | 15 | 27 | 19 | 43 | 26.5 | 0.093 |
| 12 | G3/8 | 1814 12 17 | | 11.5 | 22 | 22 | 39 | 22 | 0.072 |
| 12 | G1/2 | 1814 12 21 | | 15 | 27 | 22 | 43.5 | 26.5 | 0.100 |
| 16 | G1/2 | 1814 16 21 | | 15 | 27 | 27 | 45 | 26 | 0.120 |
| | | | | | | | | | <u>-</u> |