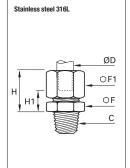


Stainless Steel Compression Fittings

1805 Stud Fitting, Male BSPT Thread



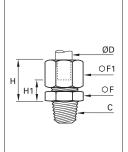


ØD	C	•	F F1	H max	H1	kg
6	R1/8	1805 06 10	12 13	19.5	7.5	0.017
0	R1/4	1805 06 13	14 13	19.5	7.5	0.025
8	R1/8	1805 08 10	13 14	21	7	0.019
0	R1/4	1805 08 13	14 14	21	7	0.024
	R1/4	1805 10 13	17 19	25.5	9	0.044
10	R3/8	1805 10 17	17 19	25.5	9	0.049
	R1/2	1805 10 21	22 19	26.5	10	0.076
	R1/4	1805 12 13	19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

1805 Stud Fitting, Male NPT Thread

Stainless steel 316L





ØD	C	•	F F1 H	H1	kg
	NPT1/8	1805 06 11	12 13 19.5	7.5	0.018
6	NPT1/4	1805 06 14	14 13 19.5	7.5	0.027
U	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
10	NPT1/2	1805 16 22	24 27 28.5	9.5	0.097
			·		

Stainless Steel Compression Fittings

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

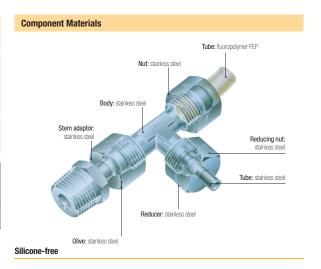


Food Process Fluid Transmission Pneumatics Automotive Process Petrochemical Chemical Offshore Oil & Gas

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



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.

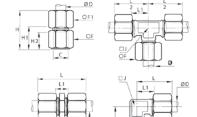
Orientable Elbow Assembly





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

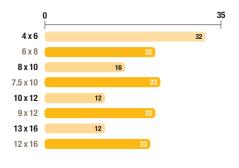
Assembled using Parker Legris olive and nut in stainless steel, with a tube support.

Stainless steel tube

Stainless steel tube: in cold-rolled straight lengths

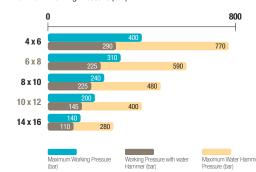
Coiled annealed stainless tube: reduces working pressure by 35%; do not use if there is vibration.

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.

