



Parker Legris: **Connection Solutions** for Life Sciences & Clean Rooms

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

The Fluid System Connectors Division Europe (Legris) of Parker Hannifin, the global leader in motion and control technologies, has edited this Life Sciences catalogue to promote the many different ranges of leak-free and compact push-in fittings, tubing, function fittings, valves and complementary products specific to Life Sciences and Clean Room applications.

With more than 40 years of experience in the manufacturing and marketing of high quality fittings, Parker Legris today proposes a wide range of proven solutions for medical and clean room environments: bio-medical equipment, breathing systems, diagnosis devices, pharmaceutical process...

For advice or more information, please do not hesitate to contact us.

Visit our web site today: www.parkerlegris.com.

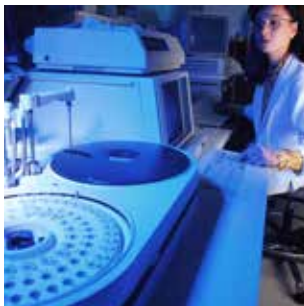


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Connection Solutions for Life Sciences & Clean Room Applications



Respiratory

Oxygen Therapy/Oxygen Gas/Transfilling/Concentrators/
Oxygen Conserving Devices/Sleep Apnea/ICU/Aerosol



Preventative & Recovery

Perioperative Temperature Mgmt./Pre-OP/OR/Post-OP/
Therapeutic/Compression Therapy/Alternating Support Surfaces



Bio-Fluid Management

Dialysis/Medical Autoclaves/Dental/Hospital Infection Control/
Suction Therapy/Wound Therapy

Surgical & Diagnosis

Surgical Power Tools/Imaging Equipment/Home Diagnostic
Equipment/Advanced Prosthetics

MEDICAL

Laboratory

Gas Control/AA Spectrometry/Thermal Conductivity Detector

Clean Rooms

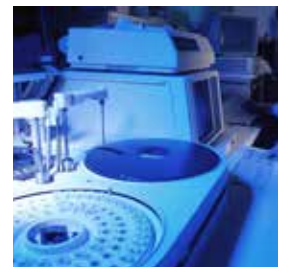
Air/Vacuum Conditioning Unit/Air Bearing Controller/
Semi-Conductor/Neonatal Ventilator/Filling & Packing

Pharmaceutical

Air & Nitrogen Supply/Buffer Preparation/Bioreactor Production/
Chromatography/Diafiltration & Concentration/Dosing/
Filling & Packing

Respiratory

Anti-Dust Systems/O₂ Delivery Systems



INDUSTRIAL

Directives and Regulations: the Parker Legris Offer

	<p>European RoHS Directives: 2011/65/EC Relating to the limitation of the use of 6 hazardous substances in electrical and electronic equipment (mercury, lead, cadmium, hexavalent chromium, PBB and PBDE).</p>	<p>ISO 14001</p>	<p>Environmental Management Systems: Requirements with Guidance for Use.</p>
	<p>REACH Regulation: no. 1907/2006 As product manufacturer, we are subject to article 33 of the regulation which defines a duty to inform when a candidate substance is present at more than 0.1% weight for weight.</p>	<p>ISO 14644-1</p>	<p>Clean Rooms and Associated Controlled Environments. PART 1 : Classification of Air Cleanliness The document covers the classification of air cleanliness in clean rooms and associated controlled environments exclusively in terms of concentration of airborne particles. Only particle populations having cumulative size distributions based on threshold (lower limit) size ranging from 0.1 <math>\mu\text{m}</math> to 5 <math>\mu\text{m}</math> are considered for classification purposes.</p>
	<p>Pressurised Equipment Directive: 97/23/EC This directive regulates the design, manufacture and assessment of pressurised equipment to ensure operating safety.</p>	<p>ISO 13485 (pending)</p>	<p>Medical Devices - Quality Management Systems: Requirements for Regulatory Purposes This International Standard specifies requirements for a quality management system where an organization needs to demonstrate its ability to provide medical devices and related services that consistently meet customer requirements and regulatory requirements applicable to medical devices and related services.</p>
	<p>ATEX Directive: 94/9/EC mandatory since 01/07/2003 This directive is mandatory for electrical and non-electrical equipment used in explosive gaseous or dusty atmospheres. The use of our products in these areas must be determined in accordance with the ATEX environment.</p>	<p>ISO 15001:2010</p>	<p>Anaesthetic and Respiratory Equipment, Compatibility with Oxygen ISO 15001:2010 specifies requirements for the oxygen compatibility of materials, components and devices for anaesthetic and respiratory applications, which can come into contact with oxygen in normal conditions or in single fault conditions at gas pressures greater than 50 kPa.</p>
	<p>CFR 21: Code of Federal Regulation Title 21: Food and Drugs This code consists of lists of prohibited substances for materials intended to come into contact with foodstuffs.</p>		<p>CGA G-4.1 Cleaning Equipment for Oxygen Service The cleaning methods described in this publication are intended for cleaning equipment used in the production, storage, distribution, and use of liquid and gaseous oxygen.</p>
<p>ASTM G93</p>	<p>Standard Practice for Cleaning Methods and Cleanliness Levels for Material and Equipment Used in Oxygen-Enriched Environments This practice covers the selection of methods and apparatus for cleaning materials and equipment intended for service in oxygen-enriched environments. Contamination problems encountered in the use of enriched air, mixtures of oxygen with other gases, or any other oxidizing gas may be solved by the same cleaning procedures applicable to most metallic and non-metallic materials and equipment.</p>		<p>Protecting natural resources: By saving energy through the performance of our production facilities. Improving performance: By changing habits in order to promote new materials and concepts. Asserting our values for the protection of the environment: By having all our sites ISO 14001 certified in order to unify all our employees around clear objectives regarding the management of the environment.</p>
	<p>For grease used in fittings only.</p>		

The Parker Legris product range offers compliance with numerous European standards associated in particular with the directives and regulations referred to above. The official texts of these directives are available on the site: <http://eur-lex.europa.eu>.

Certificates and Regulations

Certificates of conformity for our products are available on our web site. Contact us for any further information you require.



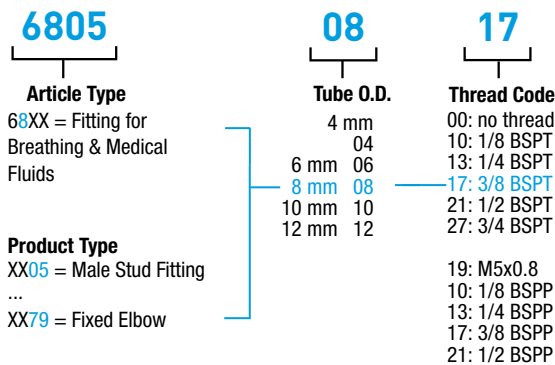
Part Number Identification

The part numbers used for our product ranges are coded in such a way as to make it easy to identify any particular item.

Part Number Construction for Fittings

The part numbers are selected using a technical mnemonic code. Each fitting and valve is identified by:

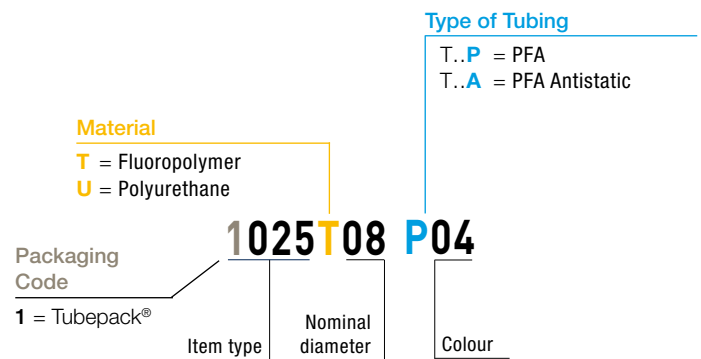
- model series (4 digits)
- nominal diameter (2 digits)
- thread or 2nd nominal diameter (2 digits)
- a suffix, if applicable



Part Number Construction for Tubing

The part numbers are selected using a technical mnemonic code. Each tube is identified by:

- model series (4 digits and a letter)
- nominal diameter (2 digits)
- colour (2 digits)
- inside diameter, if applicable



Nominal diameter code: equates to the outside diameter.

Colour code: see below

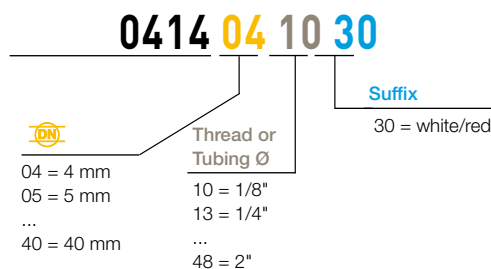
00 = (clear, USP Class VI) 12 = 13 = 14 =

01 = (antistatic)

Complementary Products upon Request

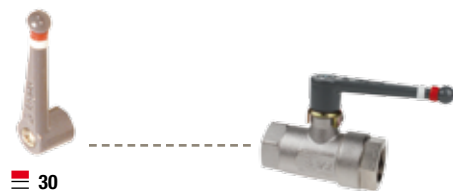
Based on the standard components of the universal series, these ball valves allow the valve to be adapted to specific needs. These products are identified by the specific colour identification on the handle and are manufactured according to a special process (greased and degreased) guaranteeing perfect chemical compatibility with breathable fluids.

Product Codes



Identification

Each series may be easily identified by a colour marking on the lever.



Identification		Body	Lever	Ball	Stem and Wear-Compensation Seals	Seat Seals	Grease	Application Examples
Suffix on the body	Colour bands on the lever	Nickel-plated brass	Standard	Nickel-plated polished brass	EPDM	Rilsan: graphite-impregnated	Compatible Oxygen BAM certified	
30		●	●	●	●	●	●	Gaseous oxygen & breathable circuits



EVAPORATOR #3

EVAPORATOR #2

AuGe-Ni-Au

Product Ranges for Life Sciences & Clean Rooms

Push-In Fittings, with Polymer or Metal Adaptor (P.10)



Fluids: Clean air, breathing and medical fluids

Materials: biopolymer, EPDM, FDA nickel-plated brass

Pressure: 16 bar

Temperature: -10°C to +95°C

Ø metric: 4 mm to 12 mm

Cartridges (P.20)



Fluids: Air and clean air, breathing and medical fluids

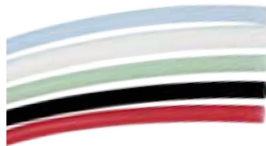
Materials: biopolymer, EPDM, stainless steel 316L or nickel-plated brass

Pressure: 16 bar

Temperature: -10°C to +95°C

Ø metric: 4 mm to 12 mm

PFA Tubing (P.22)



Fluids: many fluids

Materials:

- 3 grades of perfluoroalkoxy
- High purity medical-grade, clear
- Standard food-grade, 3 "crystal" colours
- Antistatic (0.2 Ω.m), black

Pressure: 36 bar

Temperature: -196°C to +260°C

O.D. metric: 4 mm to 12 mm

Ball Valves, Universal Series (P. 24)



Fluids: industrial fluids, oxygen

Materials: nickel-plated forged brass

Pressure: 40 bar

Temperature: -20°C to +80°C

DN : 4 mm to 40 mm



Sterile Medical Packaging

All fittings are packed individually in an antistatic and airtight bag, guaranteeing impeccable cleanliness for safe and easy use.

Product Ranges for Life Sciences & Clean Rooms

Stud Fittings

Straights

- 6805**
BSPT
Metal
Page 11
- 6801**
BSPP / Metric
Metal
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- 6814**
BSPP
Metal
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- 6821**
BSPT
Polymer
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- 6875**
BSPT
Polymer
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Elbows

- 6809**
BSPT
Metal
Page 12
- 6899**
BSPP/Metric
Metal
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- 6879**
BSPT
Polymer
Page 13



Tees

- 6808**
BSPT
Metal
Page 13
- 6898**
BSPP/Metric
Metal
Page 14
- 6803**
BSPT
Metal
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- 6893**
BSPP/Metric
Metal
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BSPT
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- 6873**
BSPT
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Tube-to-Tube Fittings

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- 6806**
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Elbow

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Tee

- 6804**
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- 6840**
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Bulkhead Connectors

Straight

- 6816**
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Plug-In Fittings and Accessories

Elbow

- 6882**
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Accessories

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Polymer Cartridges for Life Sciences & Clean Rooms

Carstick®

- 6800**
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Flexible Calibrated Tubing

Fluoropolymer Tubing

PFA



- 1010T..P**
- 1050T..P**
- 1100T..P**
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Industrial Valves: Universal and Universal Customised Series

In-Line

- 0402**
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Page 25
- 0401**
2/2
Page 25



In-Line with Fixing Holes and Panel Mounting

- 0446**
2/2
Page 25



In-Line, 3-Way with Fixing Holes and Panel Mounting

- 0452**
3/2
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Push-In Fittings for Life Sciences & Clean Rooms

This "eco-designed" medical range proposes an **innovative solution** for respiratory and anesthesia applications. These fittings ensure **cleanliness** and guarantee **no fluid contamination** to meet the most demanding applications.

Product Advantages

Ease of Use

- Ergonomic and aesthetic design
- Compact product fully adapted to portable devices
- Easy-to-clean external surfaces
- Eco-designed (materials, manufacturing process, weight, dimensions, performance and cleanliness)
- Antistatic and airtight packaging to prevent contamination

Purity & Security

- High cleanliness level, according to ASTM G93: level B and particle size level 300
- Safety clip to secure connection and identify circuits
- 100% leak-tested in production
- Date coding to guarantee quality and traceability

Hi-Tech Materials Complying with Health Regulations

- Bio-sourced polymer, FDA chemical nickel-plated brass
- Compatible with cleaning agents recommended for decontamination processes
- Excellent chemical and mechanical resistance, even at high temperatures
- Suitable for ETO gamma ray sterilization



Applications

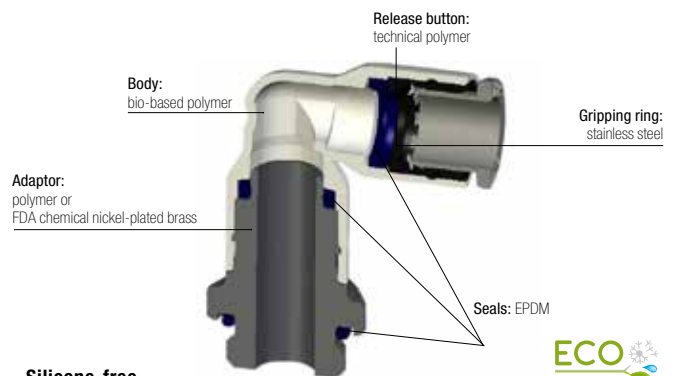
- Respiratory
- Bio-Fluid Management
- Clean Rooms
- Pharmaceutical Process
- Laboratory

Technical Characteristics

Compatible Fluids	Breathing, neutral & medical gases Medical cleaning agents Other fluids: please consult us					
Working Pressure	Vacuum to 16 bar					
Working Temperature	-10°C to +95°C					
Tightening Torques (BSPT/NPTF)	Thread	1/8" and 1/4"		3/8" and 1/2"		
	daN.m	0.15		0.30		
Tightening Torques (Metric & BSPP)	Thread	M5 x 0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5

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

Component Materials



Silicone-free




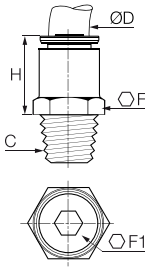

Regulations

DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 1907/2006 (REACH)
FDA: 21 CFR
ASTM G93-03


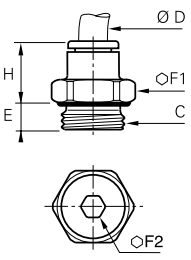

ISO 15001
BAM grease certification
CGA G4.1

Stud Fittings


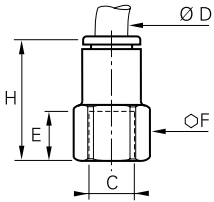

6805 Stud Fitting, Male BSPT Thread

		FDA chemical nickel plated brass, EPDM		ØD	C		F	F1	H	kg
		4	R1/8	6805 04 10	10	3	9.5	0.005		
			R1/4	6805 04 13	14	3	6.5	0.012		
			6	R1/8	6805 06 10	10	4	11.5	0.005	
				R1/4	6805 06 13	14	4	8.5	0.011	
				R1/8	6805 08 10	13	5	20	0.011	
			8	R1/4	6805 08 13	14	6	17	0.014	
				R3/8	6805 08 17	17	6	13	0.021	
				R1/4	6805 10 13	16	7	20	0.017	
			10	R3/8	6805 10 17	17	8	16.5	0.019	
				R1/2	6805 10 21	21	8	14	0.037	
			12	R3/8	6805 12 17	19	9	24	0.028	
				R1/2	6805 12 21	21	10	19.5	0.036	

6801 Stud Fitting, Male BSPP and Metric Thread


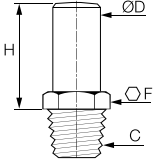

		FDA chemical nickel plated brass, EPDM		ØD	C		E	F	F1	H	kg
		4	M5x0.8	6801 04 19	3	8	2.5	14	0.003		
			G1/8	6801 04 10	5.5	13	3	11.5	0.007		
				G1/4	6801 04 13	5.5	16	3	10.5	0.011	
			6	M5x0.8	6801 06 19	3	10	2.5	16	0.005	
				G1/8	6801 06 10	4.5	13	4	13	0.007	
				G1/4	6801 06 13	5.5	16	4	12.5	0.011	
			8	G1/8	6801 08 10	4.5	13	5	20.5	0.011	
				G1/4	6801 08 13	5.5	16	6	19.5	0.016	
				G3/8	6801 08 17	5.5	20	6	18	0.022	
				G1/4	6801 10 13	5.5	16	7	23	0.018	
			10	G3/8	6801 10 17	5.5	20	8	19.5	0.021	
				G1/2	6801 10 21	7	24	8	18	0.033	
			12	G3/8	6801 12 17	5.5	20	9	27	0.029	
				G1/2	6801 12 21	7	24	10	22.5	0.035	

6814 Stud Fitting, Female BSPP and Metric Thread

		FDA chemical nickel plated brass, EPDM		ØD	C		E	F	H	kg
		4	M5x0.8	6814 04 19	6.5	8	19.5	0.005		
			G1/8	6814 04 10	9.5	13	22.5	0.010		
				G1/4	6814 04 13	13.5	16	26.5	0.015	
			6	G1/8	6814 06 10	9.5	13	24.5	0.011	
				G1/4	6814 06 13	13.5	16	28.5	0.017	
				G1/8	6814 08 10	9.5	13	29	0.015	
			8	G1/4	6814 08 13	13.5	16	33	0.021	
				G3/8	6814 08 17	14	19	34	0.025	
				G1/4	6814 10 13	13.5	16	36	0.027	
			10	G3/8	6814 10 17	14	19	36	0.027	
				G1/2	6814 10 21	19.5	24	41.5	0.048	
			12	G3/8	6814 12 17	14	19	40	0.033	
				G1/2	6814 12 21	19.5	24	45.5	0.052	
			14	G3/8	6814 14 17	14	22	42.5	0.057	
			16	G1/2	6814 16 21	15	27	49	0.096	


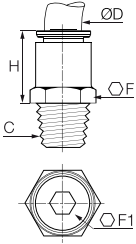

Stud Fittings

6821 Stud Standpipe, Male BSPT Thread

	Bio-based polymer		ØD	C		F	H	kg
			6	R1/8	6821 06 10	13	19	0.002
				R1/4	6821 06 13	14	19	0.003
				R3/8	6821 06 17	17	19	0.004
			8	R1/8	6821 08 10	19	23	0.003
				R1/4	6821 08 13	19	23	0.004
				R3/8	6821 08 17	19	23	0.004
			10	R1/4	6821 10 13	19	25	0.004
				R3/8	6821 10 17	19	25	0.005
				R1/2	6821 10 21	22	25	0.008
			12	R3/8	6821 12 17	22	28	0.005
				R1/2	6821 12 21	22	28	0.007


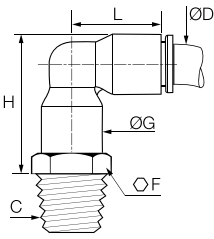

Thread without pre-coating.

6875 Stud Fitting, Male BSPT Thread

	Bio-based polymer, EPDM		ØD	C		F	F1	H	kg
			4	R1/8	6875 04 10	11	3	18	0.003
				R1/4	6875 04 13	14	3	18	0.004
			6	R1/8	6875 06 10	11	4	18	0.002
				R1/4	6875 06 13	14	4	18	0.004
			8	R1/8	6875 08 10	17	6	20	0.004
				R1/4	6875 08 13	14	6	20	0.004
				R3/8	6875 08 17	17	6	20	0.005
			10	R1/4	6875 10 13	17	7	21.5	0.005
				R3/8	6875 10 17	19	7	21.5	0.007
				R1/2	6875 10 21	22	7	21.5	0.010
			12	R3/8	6875 12 17	19	9	24.5	0.008
				R1/2	6875 12 21	22	9	24.5	0.012

Thread without pre-coating.


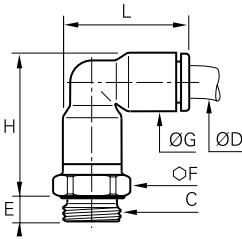


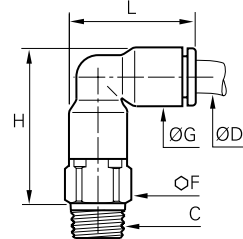

6809 Stud Elbow, Male BSPT Thread

	Bio-based polymer, FDA chemical nickel plated brass, EPDM		ØD	C		F	G	H	L	kg
			4	R1/8	6809 04 10	10	8.5	23	19	0.008
				R1/4	6809 04 13	14	8.5	23.5	19	0.018
			6	R1/8	6809 06 10	10	10.5	27	22.5	0.010
				R1/4	6809 06 13	14	10.5	27.5	22.5	0.020
			8	R1/8	6809 08 10	13	13.5	33.5	29.5	0.018
				R1/4	6809 08 13	14	13.5	32.5	29.5	0.022
				R3/8	6809 08 17	17	13.5	33	29.5	0.032
			10	R1/4	6809 10 13	15	16	39.5	34	0.031
				R3/8	6809 10 17	17	16	39.5	34	0.041
				R1/2	6809 10 21	21	16	39.5	34	0.060
			12	R3/8	6809 12 17	19	19	45.5	40.5	0.051
				R1/2	6809 12 21	21	19	45.5	40.5	0.065

Stud Fittings


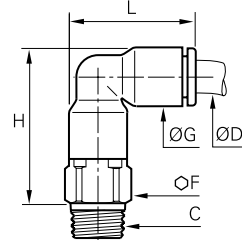


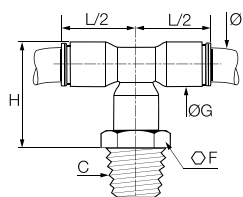

6899

Stud Elbow, Male BSPP and Metric Thread

	<p>Bio-based polymer, FDA chemical nickel plated brass, EPDM</p> 		ØD	C	E	F	G	H	L	kg	
			4	M5x0.8 G1/8 G1/4	6899 04 19 6899 04 10 6899 04 13	3.5 4.5 5.5	8 13 16	8.5 8.5 8.5	23 22.5 22.5	19 19 19	0.002 0.006 0.011
	<p>Bio-based polymer, EPDM</p> 		6	M5x0.8 G1/8 G1/4	6899 06 19 6899 06 10 6899 06 13	3.5 4.5 5.5	10 13 16	10.5 10.5 10.5	26.5 26.5 26.5	22.5 22.5 22.5	0.003 0.006 0.011
			8	G1/8 G1/4 G3/8	6899 08 10 6899 08 13 6899 08 17	4.5 5.5 5.5	13 16 20	13.5 13.5 13.5	35 33 33	29.5 29.5 29.5	0.009 0.012 0.017
			10	G1/4 G3/8 G1/2	6899 10 13 6899 10 17 6899 10 21	5.5 5.5 7	16 20 24	16 16 16	40.5 39 39	34 34 34	0.014 0.017 0.026
			12	G3/8 G1/2	6899 12 17 6899 12 21	5.5 7	20 24	19 19	42 42	40 40	0.019 0.029

6879


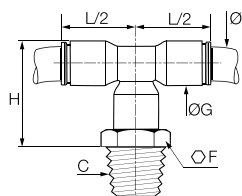


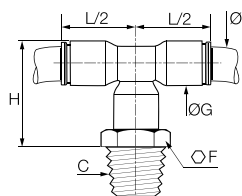

Stud Elbow, Male BSPT Thread

	<p>Bio-based polymer, EPDM</p> 		ØD	C	F	G	H	L	kg	
			6	R1/8 R1/4 R3/8	6879 06 10 6879 06 13 6879 06 17	13 14 17	10.5 10.5 10.5	28 28 28	24 24 24	0.037 0.007 0.008
	<p>Bio-based polymer, FDA chemical nickel plated brass, EPDM</p> 		8	R1/8 R1/4 R3/8	6879 08 10 6879 08 13 6879 08 17	19 19 19	13.5 13.5 13.5	34 34 34	29.5 29.5 29.5	0.010 0.011 0.011
			10	R1/4 R3/8 R1/2	6879 10 13 6879 10 17 6879 10 21	19 19 22	16 16 16	38 38 38	34.5 34.5 34.5	0.019 0.020 0.023
			12	R3/8 R1/2	6879 12 17 6879 12 21	22 22	19 19	44 44	40 40	0.022 0.024

Thread without pre-coating; the body swivels for positioning purposes.

6808

Stud Branch Tee, Male BSPT Thread


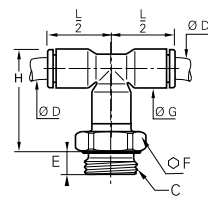

	<p>Bio-based polymer, FDA chemical nickel plated brass, EPDM</p> 		ØD	C	F	G	H	L/2	kg
			4	R1/8 R1/4	6808 04 10 6808 04 13	10 14	8.5 8.5	17 17	140.007 140.017
	<p>Bio-based polymer, FDA chemical nickel plated brass, EPDM</p> 		6	R1/8 R1/4	6808 06 10 6808 06 13	10 14	10.5 10.5	23 23	160.008 160.018
			8	R1/8 R1/4 R3/8	6808 08 10 6808 08 13 6808 08 17	13 14 17	13.5 13.5 13.5	30 30 30	230.010 230.018 230.022
			10	R1/4 R3/8 R1/2	6808 10 13 6808 10 17 6808 10 21	15 17 21	16 16 16	34.5 34.5 34.5	26.50.019 26.50.024 26.50.036
			12	R3/8 R1/2	6808 12 17 6808 12 21	19 21	19 19	40.5 40.5	310.029 310.041

Sterile Medical Packaging


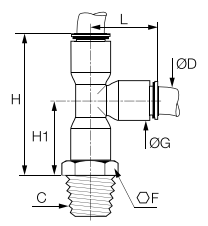

All fittings are packed individually in an antistatic and airtight bag, guaranteeing impeccable cleanliness for safe and easy use.

Stud Fittings


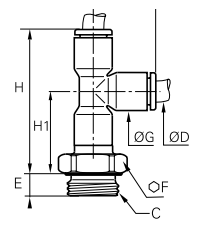

6898 Stud Branch Tee, Male BSPP and Metric Thread

	Bio-based polymer, FDA chemical nickel plated brass, EPDM			ØD	C		E	F	G	H	L/2	kg
4	M5x0.8	6898 04 19	3.5	8	8.5	24	14	0.003				
	G1/8	6898 04 10	5	13	8.5	22	14	0.007				
	G1/4	6898 04 13	5.5	16	8.5	22	14	0.012				
6	M5x0.8	6898 06 19	3.5	10	10.5	30	16	0.004				
	G1/8	6898 06 10	5	13	10.5	29	16	0.008				
	G1/4	6898 06 13	5.5	16	10.5	29	16	0.013				
8	G1/8	6898 08 10	4.5	13	13.5	38	23	0.012				
	G1/4	6898 08 13	5.5	16	13.5	36	23	0.015				
	G3/8	6898 08 17	5.5	20	13.5	36	23	0.021				
10	G1/4	6898 10 13	5.5	16	16	43	26.5	0.019				
	G3/8	6898 10 17	5.5	20	16	43	26.5	0.022				
	G1/2	6898 10 21	7.5	24	16	43	26.5	0.032				
12	G3/8	6898 12 17	5.5	20	19	45.5	31	0.026				
	G1/2	6898 12 21	7	24	19	45.5	31	0.036				

6803 Stud Run Tee, Male BSPT Thread


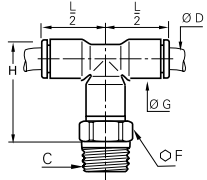

	Bio-based polymer, FDA chemical nickel plated brass, EPDM			ØD	C		F	G	H	H1	L	kg
4	R1/8	6803 04 10	10	8.5	31	18	14.5	0.007				
	R1/4	6803 04 13	14	8.5	31	19	14.5	0.017				
6	R1/8	6803 06 10	10	10.5	38	22	17.5	0.008				
	R1/4	6803 06 13	14	10.5	39	23	17.5	0.018				
8	R1/8	6803 08 10	13	13.5	53	30	23	0.010				
	R1/4	6803 08 13	14	13.5	52	29	23	0.017				
	R3/8	6803 08 17	17	13.5	52	29	23	0.022				
10	R1/4	6803 10 13	15	16	61	35	26.5	0.019				
	R3/8	6803 10 17	17	16	61	35	26.5	0.024				
	R1/2	6803 10 21	21	16	61	35	26.5	0.036				
12	R3/8	6803 12 17	19	19	70	39	31	0.029				
	R1/2	6803 12 21	21	19	70	39	31	0.041				

6893 Stud Run Tee, Male BSPP and Metric Thread

	Bio-based polymer, FDA chemical nickel plated brass, EPDM			ØD	C		E	F	G	H	H1	L	kg
4	M5x0.8	6893 04 19	3.5	8	8.5	32	19	14.5	0.003				
	G1/8	6893 04 10	5	13	8.5	30	18	14.5	0.007				
	G1/4	6893 04 13	5.5	16	8.5	30	18	14.5	0.012				
6	M5x0.8	6893 06 19	3.5	10	10.5	39	23	17.5	0.004				
	G1/8	6893 06 10	5	13	10.5	38	22	17.5	0.008				
	G1/4	6893 06 13	5.5	16	10.5	38	22	17.5	0.013				
8	G1/8	6893 08 10	4.5	13	13.5	54	31	23	0.012				
	G1/4	6893 08 13	5.5	16	13.5	52	29	23	0.015				
	G3/8	6893 08 17	5.5	20	13.5	52	29	23	0.021				
10	G1/4	6893 10 13	5.5	16	16	61	35	26.5	0.019				
	G3/8	6893 10 17	5.5	20	16	61	35	26.5	0.022				
	G1/2	6893 10 21	7.5	24	16	61	35	26.5	0.032				
12	G3/8	6893 12 17	5.5	20	19	67	36	31	0.026				
	G1/2	6893 12 21	7	24	19	67	36	31	0.042				


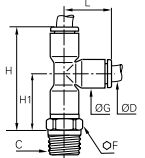

Stud Fittings

6878 Branch Tee, Male BSPT Thread

	Bio-based polymer, EPDM 	ØD	C		F	G	H	L/2	kg
6		R1/8	6878 06 10		13	10.5	28	18	0.008
		R1/4	6878 06 13		14	10.5	28	18	0.009
		R3/8	6878 06 17		17	10.5	28	18	0.010
8		R1/8	6878 08 10		19	13.5	34	23	0.012
		R1/4	6878 08 13		19	13.5	34	23	0.013
		R3/8	6878 08 17		19	13.5	34	23	0.013
10		R1/4	6878 10 13		19	16	38	26.5	0.018
		R3/8	6878 10 17		19	16	38	26.5	0.019
		R1/2	6878 10 21		22	16	38	26.5	0.022
12		R3/8	6878 12 17		22	19	44	31	0.024
		R1/2	6878 12 21		22	19	44	31	0.026

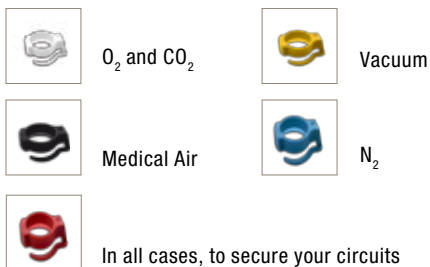
Thread without pre-coating; the body swivels for positioning purposes.

6873 Run Tee, Male BSPT Thread

	Bio-based polymer, EPDM 	ØD	C		F	G	H	H1	L	kg
6		R1/8	6873 06 10		13	10.5	40	22	18.5	0.008
		R1/4	6873 06 13		14	10.5	40	22	18.5	0.009
		R3/8	6873 06 17		17	10.5	40	22	18.5	0.010
8		R1/8	6873 08 10		19	13.5	50	27	23	0.012
		R1/4	6873 08 13		19	13.5	50	27	23	0.013
		R3/8	6873 08 17		19	13.5	50	27	23	0.013
10		R1/4	6873 10 13		19	16	56.5	30	26.5	0.018
		R3/8	6873 10 17		19	16	56.5	30	26.5	0.019
		R1/2	6873 10 21		22	16	56.5	30	26.5	0.022
12		R3/8	6873 12 17		22	19	65.5	34.5	31	0.024
		R1/2	6873 12 21		22	19	65.5	34.5	31	0.026


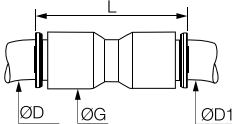

Thread without pre-coating; the body swivels for positioning purposes.

Our coloured safety clips and tubing allow for circuit identification for breathable fluids according to the normalized rules in medical environments.


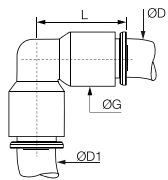



Tube-to-Tube Fittings


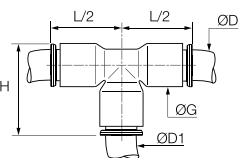

6806 Equal and Unequal Tube-to-Tube Connector

	Bio-based polymer, EPDM			ØD	ØD1		G	L	kg
	4	4		6806 04 00	8.5		26.5	0.002	
	4	6	6806 04 06	10.5	29	0.002			
		8	6806 04 08	13.5	37	0.005			
		6	6806 06 00	10.5	30	0.004			
	6	8	6806 06 08	13.5	37	0.005			
		10	6806 06 10	16	42	0.007			
		8	6806 08 00	13.5	37	0.004			
	8	10	6806 08 10	16	42	0.007			
		12	6806 08 12	19	50	0.012			
		10	6806 10 00	16	42	0.009			
	10	12	6806 10 12	19	50	0.013			
		12	6806 12 00	19	50.5	0.009			


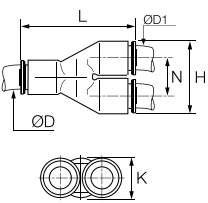

6802 Equal and Unequal Elbow

	Bio-based polymer, EPDM			ØD	ØD1		G	L	kg
	4	4		6802 04 00	8.5		19	0.002	
	4	6	6802 04 06	10.5	24	0.004			
		6	6802 06 00	10.5	24	0.004			
	6	8	6802 06 08	13.5	29.5	0.006			
		8	6802 08 00	13.5	29	0.004			
	8	10	6802 08 10	16	34.5	0.008			
		10	6802 10 00	16	34.5	0.005			
	10	12	6802 10 12	19	40.5	0.013			
		12	6802 12 00	19	40.5	0.010			

6804 Equal Tee

	Bio-based polymer, EPDM			ØD	ØD1		G	H	L/2	kg
	4	4		6804 04 00	8.5		20	15.5	0.004	
	6	6	6804 06 00	10.5	23	18	0.006			
		8	6804 08 00	13.5	29	22.5	0.006			
	10	10	6804 10 00	16	34.5	26.5	0.009			
		12	6804 12 00	19	40	31	0.014			

6840 Equal Single Y Piece

	Bio-based polymer, EPDM			ØD	ØD1		H	K	L	N	kg
	4	4		6840 04 00	17.5		8.5	30	9	0.004	
	6	6	6840 06 00	21.5	10.5	36.5	11	0.008			
		8	6840 08 00	28	13.5	44.5	14.5	0.007			
	10	10	6840 10 00	33	16	53	17	0.010			
		12	6840 12 00	39	19	60.5	20	0.025			

Bulkhead Connectors and Plug-In Fittings

6816 Equal Bulkhead Connector

	<p>Bio-based polymer, EPDM</p>	ØD		F	K max	L	L1	ØT min	kg
		4	6816 04 00	13	5.5	15.5	10.5	10.5	0.018
		6	6816 06 00	15	8.5	20	10	12.5	0.004
		8	6816 08 00	18	14.5	27	10.5	15.5	0.007
		10	6816 10 00	22	14.5	30	13	18.5	0.012
		12	6816 12 00	26	18.5	35	15.5	22.5	0.020

6882 Equal and Unequal Plug-In Elbow

	<p>Bio-based polymer, EPDM</p>	ØD	ØD1		G	H	H1	H2	L	kg
		4	4	6882 04 00	8.5	23	6	15.5	15	0.003
		4	6	6882 04 06	10.5	26.5	7	17	16.5	0.002
		6	6	6882 06 00	10.5	26.5	7	17	17	0.003
		6	4	6882 06 04	10.5	25	7	15.5	17	0.001
		8	8	6882 08 08	13.5	33.5	8	21.5	22.5	0.004
		8	8	6882 08 00	13.5	33.5	8	21.5	22.5	0.004
		8	10	6882 08 10	16	39	9.5	24.5	26	0.007
		10	10	6882 10 00	16	39	9.5	24.5	26.5	0.004
		10	12	6882 10 12	19	44.5	10	27	30	0.011
		12	12	6882 12 00	19	44.5	10	27	31	0.012

6888 Plug-In Equal Branch Tee

	<p>Bio-based polymer, EPDM</p>	ØD	ØD1		G	H	H1	H2	L/2	kg
		4	4	6888 04 00	8.5	25	6	15.5	15	0.005
		6	6	6888 06 00	10.5	28.5	7	17	16	0.006
		8	8	6888 08 00	13.5	33.5	8	21.5	23	0.005
		10	10	6888 10 00	16	41	9.5	24.5	26.5	0.007
		12	12	6888 12 00	19	46.5	10	27	31	0.016

6883 Plug-In Equal Run Tee

	<p>Bio-based polymer, EPDM</p>	ØD	ØD1		G	H	H1	H2	L	kg
		4	4	6883 04 00	8.5	33	6	15.5	15	0.002
		6	6	6883 06 00	10.5	38.5	7	17	18	0.002
		8	8	6883 08 00	13.5	49	8	21.5	23	0.005
		10	10	6883 10 00	16	57	10.5	25.5	26.5	0.012
		12	12	6883 12 00	19	65	36.5	27	31	0.016

Plug-In Fittings and Accessories

6866 Plug-In Reducer

	Bio-based polymer, EPDM		ØD	ØD1		G	L	L1	kg
			4	6	6866 04 06	8.5	38	23.5	0.004
				8	6866 04 08	8.5	38	19	0.004
			6	8	6866 06 08	10.5	38	20	0.004
				10	6866 06 10	10.5	39	17.5	0.002
			8	10	6866 08 10	13.5	48.5	28.5	0.009
				12	6866 08 12	13.5	48.5	24.5	0.004
			10	12	6866 10 12	16	52	33.5	0.005
				14	6866 10 14	16	53	33.5	0.005
			12	14	6866 12 14	19	55.5	33.5	0.023

6822 Plug-In Barb Connector

	Bio-based polymer		ØD	ØD1	ØD2		L	L1	L2	kg
			6	4	7	6822 06 04	39	25	17	0.004
			8	6	8.5	6822 08 06	43	25	17	0.005
			10	7	8	6822 10 07	50	29.5	22	0.006
			12	12.5	15.5	6822 12 62	56	32	27.5	0.004

6851 End Cap

	Bio-based polymer, EPDM		ØD		G	H	kg
			4	6851 04 00	8.5	15	0.001
			6	6851 06 00	10.5	17	0.002
			8	6851 08 00	13.5	21.5	0.003
			10	6851 10 00	16	22	0.003
			12	6851 12 00	19	27.5	0.006

6826 Blanking Plug

	Bio-based polymer		ØD		G	L	L1	kg
			4	6826 04 00	6	30	15.5	0.001
			6	6826 06 00	8	33	16.5	0.001
			8	6826 08 00	10	35	17.5	0.002
			10	6826 10 00	12	42	21	0.003
			12	6826 12 00	14	45	22	0.004

6830 Tamper-Proof Safety Clip

	Technical Polymer		ØD							H	K	kg
			4	6830 04 01	6830 04 02	6830 04 03	6830 04 04	6830 04 05	6830 04 10	6.60	3.00	0.001
			6	6830 06 01	6830 06 02	6830 06 03	6830 06 04	6830 06 05	6830 06 10	7.80	3.10	0.001
			8	6830 08 01	6830 08 02	6830 08 03	6830 08 04	6830 08 05	6830 08 10	9.50	4.30	0.001
			10	6830 10 01	6830 10 02	6830 10 03	6830 10 04	6830 10 05	6830 10 10	10.80	4.20	0.002
			12	6830 12 01	6830 12 02	6830 12 03	6830 12 04	6830 12 05	6830 12 10	12.50	5.10	0.003
			14	6830 14 01	6830 14 02	6830 14 03	6830 14 04	6830 14 05	6830 14 10	12.50	5.10	0.004



Cartridges

Parker Legris has developed the range of patented **Carstick®** cartridges **fully adapted to life sciences & clean room environments** and guaranteeing **the integrity of the sealing system**.

Product Advantages

Time & Space Saving

- No thread to be machined for inserting the fitting into its cavity
- Seal pre-assembled
- Self-centring of the cartridge in the cavity
- Product protected against contamination, from manufacture to installation
- Individual antistatic and airtight plastic bags

Proven Technology

- Push-in connection
- Full flow
- Optimum flow at pressure and vacuum
- Compatible with medical fluids and clean room requirements

Automated Installation

- Ensures that the product will be correctly assembled
- Connection fully integrated in the cavity
- Carstick® packaging designed for an automatic assembly process



Respiratory
Bio-Fluid Management
Clean Rooms
Pharmaceutical Process
Laboratory

Applications

Technical Characteristics

Compatible Fluids	Food fluids, inert gases
Working Pressure	Vacuum to 16 bar
Working Temperature	-10°C to +95°C

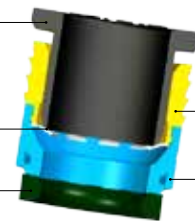
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used. Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

Component Materials

Release button:
technical polymer

Gripping ring: stainless steel

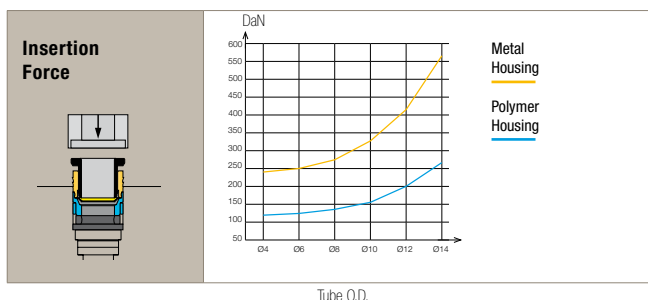
Seal:
EPDM, FKM



Retaining sleeve:
brass or chemical nickel-plated brass

Self-breaking sleeve:
technical polymer

Silicone-free




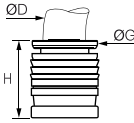

Regulations

DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 1907/2006 (REACH)
FDA: 21 CFR
ASTM G93

ISO 15001
BAM
CGA G4.1
ISO 13485 (pending)

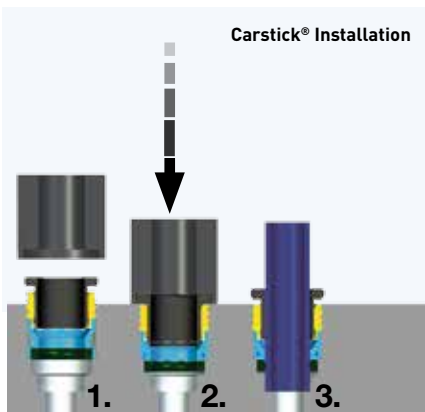
6800

Cartridge

	<p>Brass, EPDM</p> 	<p>ØD </p>	G	H	kg	
		4	6800 04 00	8	10	0.002
		6	6800 06 00	10	11.5	0.002
		8	6800 08 00	13	15	0.003
		10	6800 10 00	15.5	17	0.005
		12	6800 12 00	18.5	19.5	0.010

50 cartridges per Carstick®

Installation



Assembly tool:
For details on the assembly tool, please contact us.

1. Self-centering of the cartridge in the cavity.
2. The seal protection is broken. The seal slides into the cavity. The cartridge is in place.



3. Tube connection.

Related Products



In order to meet your needs, we can offer customised products by re-engineering the design of our fittings.

These customised cartridges can be ordered as a special product, upon request.

Designed specifically for gas and air filtration, they can also be requested as "clean" cartridges, conforming to the requirements of medical and clean room processes.

Available diameters: from 4 to 12 mm.

Fluoropolymer Tubing - PFA

Parker Legris **PFA** (perfluoroalkoxy) tubing offers **10 times greater durability** than other fluoropolymer tubings (PTFE, FEP and PVDF) under severe chemical and mechanical conditions. This tubing range is available in **three material grades**, offering perfect compatibility with all applications, even in extreme environments.

Product Advantages

Great Versatility

- Exceptional chemical inertia
- A flexible alternative to stainless steel tubing
- Broad range of working temperatures, from cryogenic to extreme heat
- Non-stick properties allowing conveyance of many fluids & gases
- Outstanding resistance to ageing
- Fluoropolymer with the lowest permeability
- Non-flammable
- UV-transparent
- Tube marking on request
- Tubing cut to length on request
- Silicone-free

Three Material Grades

- Clear High Purity PFA (USP, Class VI): to cover all applications, including those requiring maximum mechanical resistance
- Coloured PFA: for circuit identification
- Black Antistatic PFA: eliminates all risk of electrostatic discharge



Applications

Respiratory
Bio-Fluid Management
Clean Rooms
Pharmaceutical Process
Semiconductors
Laboratory

Technical Characteristics

Compatible Fluids	Medical, bio-compatible, gas, compressed air
Working Pressure	Vacuum to 36 bar
Working Temperature	-196°C to +260°C
Component Materials	Perfluoroalkoxy - 55 Shore D <ul style="list-style-type: none"> • High Purity PFA • Translucent coloured PFA • Antistatic PFA

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Regulations

Medical & Pharmaceutical

USP: Class VI (A) (clear HP PFA)
External communication devices

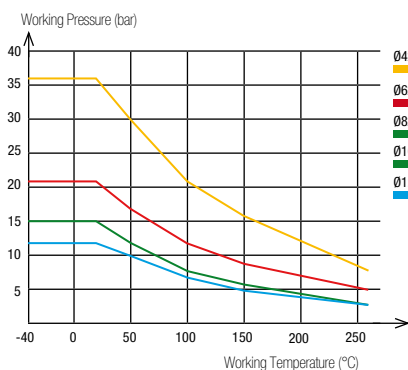
Industrial

UL94 V-0 (Fire resistance)
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)
DI: 94/09/EC (ATEX, black tubing)

Food Industry

FDA: 21 CFR 177.1550
(clear, translucent coloured)
RG: 1935/2004

Performance of PFA Tubing



Tube O.D.	Tube O.D. Tolerance
4 to 8 mm	+0.10 / -0.10
10 to 12 mm	+0.15 / -0.15

Packaging






Tubepack®: 10 m, 50 m, 100 m

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-100.

To calculate burst pressure, the values in this graph should be multiplied by 3.

1010T..P Fluoropolymer (PFA) Tubing






Tubepack® 10 m

O.D. (mm)	I.D. (mm)		USP Class VI				kg
			 High purity	 crystal	 crystal	 crystal	
4	2	12	1010T04P00	1010T04P12	1010T04P13	1010T04P14	0.087
6	4	34	1010T06P00	1010T06P12	1010T06P13	1010T06P14	0.237
8	6	60	1010T08P00	1010T08P12	1010T08P13	1010T08P14	0.410
10	8	95	1010T10P00	1010T10P12	1010T10P13	1010T10P14	0.723
12	9	120	1010T12P00	1010T12P12	1010T12P13	1010T12P14	1.148

Ø 10 mm and 12 mm: green, red and blue colours are available upon request, with minimum order quantity.

1050T..P Fluoropolymer (PFA) Tubing



Tubepack® 50 m

O.D. (mm)	I.D. (mm)		USP Class VI				kg
			 High purity	 crystal	 crystal	 crystal	
4	2	12	1050T04P00	1050T04P12	1050T04P13	1050T04P14	0.435
6	4	34	1050T06P00	1050T06P12	1050T06P13	1050T06P14	1.185
8	6	60	1050T08P00	1050T08P12	1050T08P13	1050T08P14	2.050
10	8	95	1050T10P00	1050T10P12	1050T10P13	1050T10P14	3.615
12	9	120	1050T12P00	1050T12P12	1050T12P13	1050T12P14	5.740



Ø 10 mm and 12 mm: green, red and blue colours are available upon request, with minimum order quantity.

1100T..P Fluoropolymer (PFA) Tubing



Tubepack® 100 m

O.D. (mm)	I.D. (mm)		USP Class VI		kg
			 High purity		
4	2	12	1100T04P00		0.870
6	4	34	1100T06P00		2.370
8	6	60	1100T08P00		4.100
10	8	95	1100T10P00		7.230
12	9	120	1100T12P00		11.480

1010T..A Fluoropolymer (PFA) Antistatic Tubing - Tubepack® 10 m

O.D. (mm)	I.D. (mm)		 High purity	kg
4	2	12	1010T04A01	0.087
6	4	34	1010T06A01	0.237
8	6	60	1010T08A01	0.410
10	8	95	1010T10A01	0.723
12	9	120	1010T12A01	1.148

1050T..A Fluoropolymer (PFA) Antistatic Tubing - Tubepack® 50 m

O.D. (mm)	I.D. (mm)		 High purity	kg
4	2	12	1010T04A01	0.087
6	4	34	1010T06A01	0.237
8	6	60	1010T08A01	0.410
10	8	95	1010T10A01	0.723
12	9	120	1010T12A01	1.148

Special Product Upon Request: USP Class VI PU Ether Tubing

Upon request, we can supply USP Class VI PU Ether Tubing, 85 Shore A (36 Shore D).

Tubing in accordance with REACH/SVHC (Substances of Very High Concern).



Ball Valves, Universal Series

This range of valves has patented **seal wear compensating** technology for **reliable** and **durable** sealing, **protecting** any system whether under pressure or **vacuum**.

Product Advantages

Durability & Reliability

Automatic seal wear compensation for long-term reliability
Robust, corrosion-resistant materials
100% leak-tested in production
Date coding to guarantee quality and traceability

Versatility & Performance

Ideal for ensuring the performance of pneumatic circuits
Customised valves for all special applications
Unequalled performance under vacuum
Smooth operation thanks to self-lubricating seals
Large range of working pressures and temperatures
Lever can be repositioned and replaced
Many configurations to satisfy all system requirements



Respiratory
Bio-Fluid Management
Vacuum
Clean Rooms
Pharmaceutical Process
Laboratory

Applications

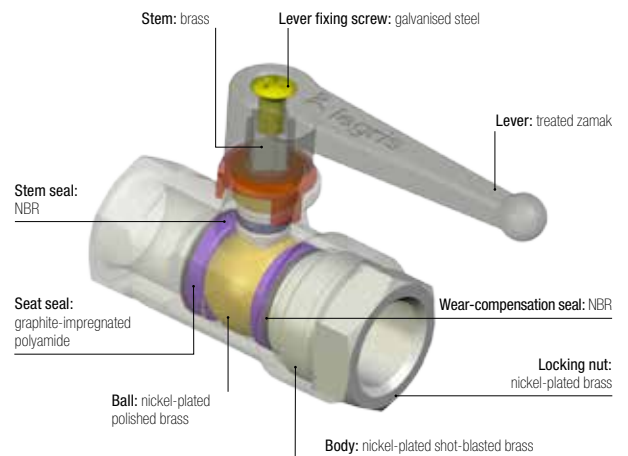
Technical Characteristics

Compatible Fluids	Industrial fluids, oxygen (suffix 30)						
Working Pressure	Vacuum to 40 bar						
Working Temperature	-20°C to + 80°C						

Tightening Torques	Threads	G1/8	G1/4	G3/8	G1/2	G3/4	G1
	daN.m	0.10 to 0.20	0.10 to 0.20	0.15 to 0.25	0.20 to 0.35	0.50 to 0.70	0.50 to 0.70
	Threads	G1¼	G1½	G2			
	daN.m	0.40 to 0.60	0.80 to 1.20	0.80 to 1.20			

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).

Component Materials



Silicone-free

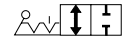
Regulations

DI: 97/23/EC (module PED A - diameters greater than 25 mm)
DI: 2006/42/EC (Machinery Directive)
DI: 2002/95/EC (RoHS)
RG: 1907/2006 (REACH)

Universal and Universal Customised Series

0402

2/2 In-Line Ball Valve, Female BSPP Thread



		Nickel-plated brass, NBR				C	DN		E	F	F1	H	H1	L	L1	M	kg
						G1/8	4	0402 04 10 30	8	-	14	35	29	44	25	48	0.094
						G1/8	7	0402 07 10 30	8	19	19	38	31	51	27	48	0.166
						G1/4	7	0402 07 13 30	12	19	19	38	31	53	28	48	0.156
						G3/8	10	0402 10 17 30	12	24	24	45	43	59	31	69	0.244
						G1/2	13	0402 13 21 30	15	27	27	47	44	67	34	69	0.292
						G3/4	20	0402 20 27 30	16.5	32	38	63	54	80	39	108	0.655
						G1	23	0402 23 34 30	19	41	46	67	57	94	47	108	1.036
						G1¼	32	0402 32 42 30*	21.5	55	60	97	115	112	59	180	2.467
						G1½	32	0402 32 49 30*	22	55	60	97	115	120	62	180	2.340
						G1½	40	0402 40 49 30*	22	55	55	104	-	111	55	190	2.445
						G2	40	0402 40 48 30*	26	70	70	104	-	122	61	190	2.614

*Models with CE marking
Maximum working pressure: 40 bar

0446

2/2 In-Line Panel-Mountable Ball Valve, Female BSPP Thread

		Nickel-plated brass, NBR				C	DN		E	F	F1	H	H1	H2	L	L1	M	ØT	kg
						G1/8	4	0446 04 10 30	8	14	22	37	14	12	44	25	48	16.5	0.112
						G1/4	7	0446 07 13 30	12	19	24	45	19	14	53	28	48	20.5	0.188
						G3/8	10	0446 10 17 30	12	24	27	50	21	21	59	31	69	20.5	0.294
						G1/2	13	0446 13 21 30	15	27	27	51	23	21	67	34	69	20.5	0.338

Maximum working pressure: 20 bar
*For G1/8 version, maximum panel thickness = 3 mm

0401

2/2 In-Line Ball Valve, Male/Female BSPP Thread

		Nickel-plated brass, NBR				C	DN		E	E1	F	H	H1	J	L	L1	M	kg
						G1/8	4	0401 04 10 30	8	7	14	35	29	14	45	25	48	0.094
						G1/8	5	0401 05 10 30	8	7	19	38	31	19	51	27	48	0.160
						G1/4	7	0401 07 13 30	12	9	19	38	31	19	52	28	48	0.150
						G3/8	10	0401 10 17 30	12	11	24	45	43	24	58	31	69	0.234
						G1/2	13	0401 13 21 30	15	12	27	47	44	27	66	34	69	0.286
						G3/4	18	0401 18 27 30	16.5	12	38	63	54	39	79	39	108	0.652
						G1	23	0401 23 34 30	19	15	46	67	57	48	91	47	108	0.952
						G1¼	32	0401 32 42 30*	21.5	18	60	97	115	55	113	59	108	2.385

*Models with CE marking
Maximum working pressure: 40 bar

0452

3/2 Panel-Mountable Equal Plane Ball Valve, Female BSPP Thread



		Nickel-plated brass, NBR				C	DN		E	F	F1	H	H1	H2	J	K	L	ØT	kg
						G1/8	4	0452 04 10 30	8	14	22	39	10	8	16	18	25	19	0.130
						G1/4	6	0452 06 13 30	12	19	24	40	11	11	23	24	28	20	0.206

Maximum working pressure: 20 bar

More than 20 different models are available in our master Catalogue, among them the following:

0411



0472



0482



0432



Together, We Can Build Sustainable Development

Parker Legris, ISO 14001 certified, has made the conservation of resources and protection of the environment a major priority. We have incorporated improved environmental management as a permanent feature in the vision and mission of the company, aiming to benefit nature, technology and mankind.

Our actions are coupled with your environmental process

Reducing the impact on industrial sites

Parker Legris has integrated environmental protection management into the operation of its industrial sites. This approach has enabled 85% of waste to be recovered and has reduced energy consumption by 15%.

Offering ecologically responsible products

Under its continuous improvement process, Parker Legris has integrated ecological design as an input parameter to innovation and uses Life Cycle Assessment (LCA) to optimise the environmental impact of its products.

Providing information on the PEP (Product Environmental Profile)

This communication tool is common to all industries and professions and delivers a reliable and clear message for promoting ecological advances and incorporating this data within the LCA equipment.

Getting ahead of regulations

Parker Legris goes beyond its statutory obligations and endeavours to find a good match between choice of materials, limitation of hazardous substances, selection of recycling channels and industrial performance to encourage the recycling of products at end of life.

Using our technology reduces the environmental impact

LIQUIfit®

Tube-to-Tube Connector

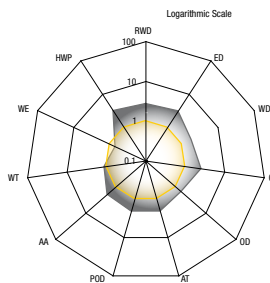


Market Standard

Tube-to-Tube Connector

- Parker Legris
- Market Standard in PP

Tube-to-Tube Connector



- RWD: Raw Material Depletion
- ED: Energy Depletion
- WD: Water Depletion
- GW: Global Warming

- OZ: Ozone Depletion
- AT: Air Toxicity
- POC: Photochemical Ozone Creation
- AA: Air Acidification

- WT: Water Toxicity
- WE: Water Eutrophication
- HWP: Hazardous Waste Production





Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374.



Aerospace

Key Markets

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO₂ controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydraulic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings



Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors



Pneumatics

Key Markets

Aerial lift
Agriculture
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors



Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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MX – Mexico, Toluca
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