




# Parker Legris: Connection Solutions for Industrial Fluids

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



ENGINEERING YOUR SUCCESS.





Serving as a true shop window for Parker Legris' knowledge and expertise, this new catalogue strives to provide the day-to-day support you need when designing your industrial equipment.

This new edition has been written in an informative style and describes our entire range of products and services. We have developed the content, structure and layout to enable you to find the products and information you require as quickly as possible.

Many new products have been introduced, widening the choice of solutions available in order to meet your requirements more effectively.

For advice or more information, please do not hesitate to contact us. Visit our web site today: [www.parkerlegris.com](http://www.parkerlegris.com).



# A Century of Dedication and Enthusiasm...

Inventor of the push-in fitting, Legris joined the Parker Hannifin Corporation, world leader in motion and control technologies, in October 2008.

## 3 Industrial Activities

Optimising the transport and control of many fluids (compressed air, liquids, gas) through innovative product design has been the motto of our teams for more than 100 years.

Today, Parker Legris' expertise is divided into three business activities:

**Legris Connectic:** fittings, couplers, function fittings, valves, tubing and accessories for industrial applications.

**Legris Transair:** air and fluid distribution systems for industrial buildings.

**Legris Autoline:** push-in connection solutions for automobile fuel lines.

## 150 Years of History

Our experience and expertise in the design, manufacturing and marketing of high-quality connectors allow us to provide our customers with solutions adapted to a variety of applications.

**1848** Legris, a small valve manufacturer in France

**1969** Invention of LF 3000®, the first push-in fitting for compressed air

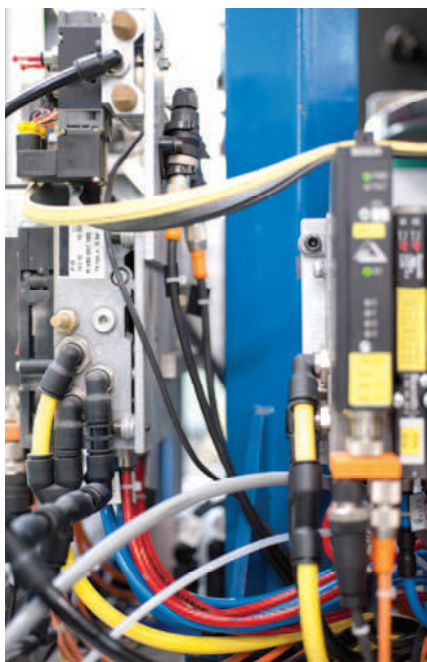
**1988** Legris becomes a division of the Legris Industries Group

**1996** Launch of Transair®

**1997** Launch of Autoline

**2008** Acquisition of Legris by the Parker Hannifin Corporation

**2009** Legris becomes Parker Legris, a division of the Parker group



# ...Supporting Industrial Connectivity

## Parker Legris Sites

Parker Legris has 9 locations distributed across Europe.

**France:** Annemasse, Baillé, Guer, Guichen, Malestroit, Muzillac, Rennes

**Belgium:** Herstal

**Spain:** Terrassa

## Industrial Applications

Our products are used everywhere fluid control is required.

Our knowledge and expertise are deployed in a variety of sectors: production automation, packaging, transport, food process, and the medical industry.

Parker Legris is also involved in innovative sectors such as renewable energy, information and communication technologies.

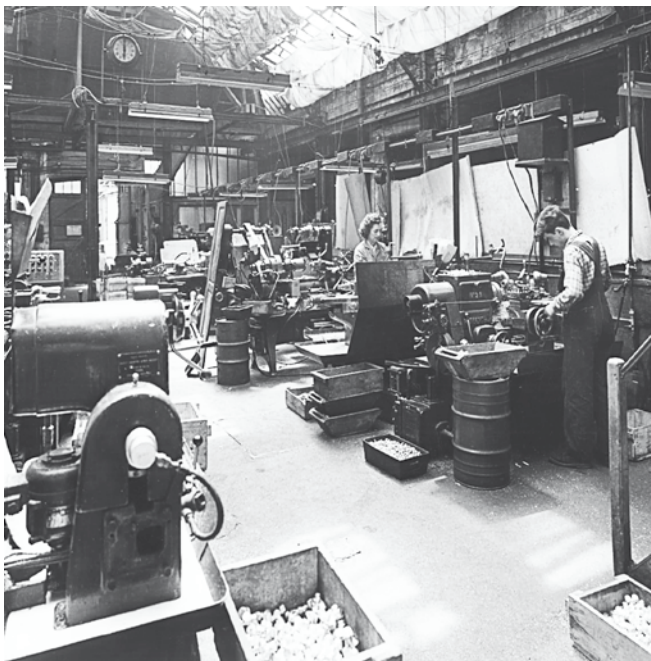
## Our Distribution Network

We encourage local support and long-term partnerships with our customers.

Through our many sales outlets, professionals are on hand to provide you with technical advice and to offer you a wide choice of products local to your sites.

Do not hesitate to contact them for further information and advice.

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# Your Applications Inspire Our Innovation

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Innovation is Parker-Legris' number one priority in order to provide solutions that meet your technological, energy reduction and environmental challenges.

## Our expertise is continually improving

We continually invest in our tools in order to anticipate market requirements in terms of industrial efficiency. Furthermore, our long-term partnerships with the most qualified organisations (universities, skills hubs, etc.) enable us to incorporate the latest technological advances in our product development. Lastly, constantly incorporating your needs into the design of our products keeps us at the forefront of the new industrial challenges.

## Together, we can build advanced and unique connector solutions

Here are a few examples:

### To increase the efficiency of your systems

The new LIQUIfit+, with its ecological design, combines full flow and quick connection to stainless steel tubes without grooving. This range guarantees the quality and non-contamination of the fluids conveyed, plus reduced operating costs.

### To prolong the life of your equipment

Developed for railway applications and demanding industrial markets, our new high strength flame-resistant tubing combines unequalled flame resistance with very high mechanical strength and ease of installation.

### To limit energy costs

The new range of energy-saving blowguns allows you to reduce the air flow, thus limiting its energy consumption while maintaining blowing efficiency.

## This catalogue also contains details of our latest products:

LF 3000® 16 mm, LIQUIfit®, PFA tubing, piloted non-return valve, adjustable non-return valve, blowgun kits and many other components.



# Quality and Safety, the Basis of Our Commitment

Our target is to provide our customers with the best solution and the highest quality. Certified ISO/TS 16949, Parker Legris includes customer quality at the heart of its processes.

## Invest in quality for increased productivity

The cost of a production stoppage due to a defective part is greater than the cost of all the connectors in the machine. Choosing the quality of the components in your machine is thus of primary importance; it also guarantees the safety of your employees. Furthermore, investing in quality increases your productivity over the long term and contributes to maintaining your brand image.

### We guarantee the quality and traceability of our solutions

Our products are fully inspected and dated individually during production in order to ensure quality and traceability.

We commit our name and our image to yours through the quality of our products.

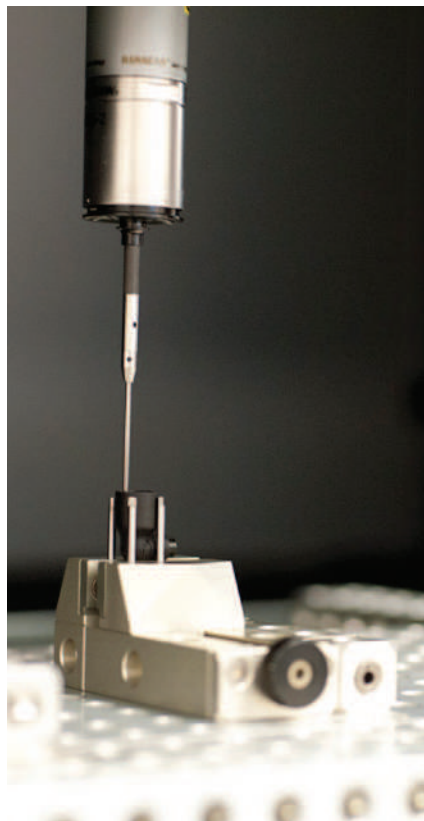
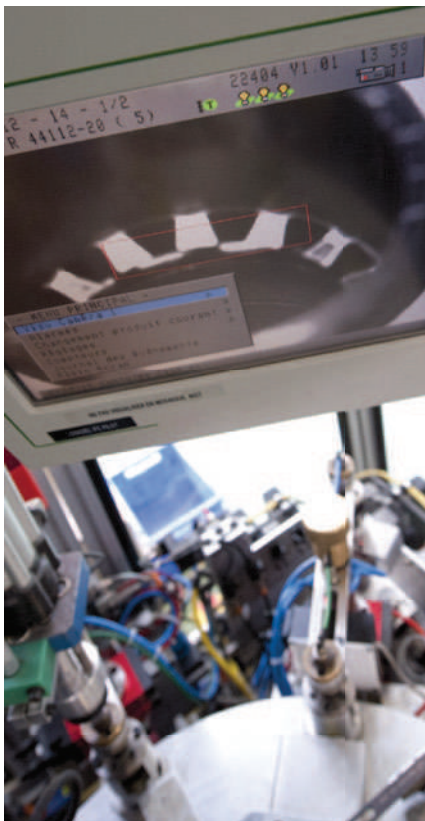
### We protect your connectors to give you peace of mind

Our company exceeds its statutory responsibilities with regard to the safety of individuals and systems.

Certification and qualification processes are integrated upstream of our developments.

### We ensure the performance of your installations

Our product ranges are designed with a high safety factor and comply with quality management processes.



# Our Services Contribute to Your Performance

Our services integrate easily into your processes. Whether during the design phase, for promotion, or for administrative, business, or stock management of your components, our skills are here for you to use.

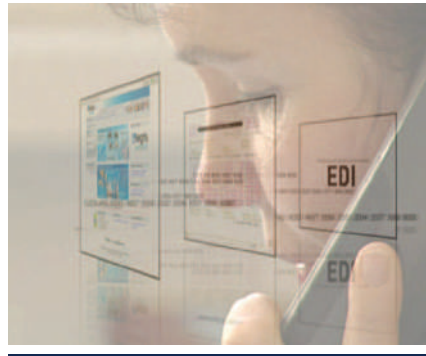
## Customised Products

We can help you develop customised solutions: fittings, manifolds, valves, etc.



## EDI Transmission

Implementation of computerised data exchange.



## Improved Stock Management

Packaging, bar codes and customised labels according to your needs.



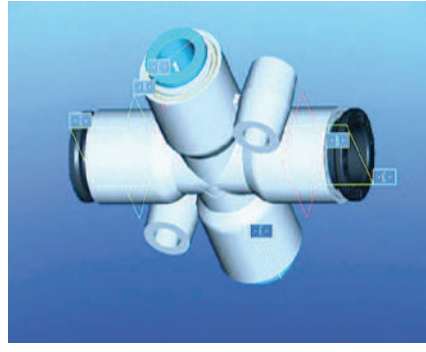
## Technical Specifications

All the technical data for our products is available on-line.



## 2D and 3D Drawings

The CAD drawings of our products are available on-line in the 21 main formats used by the industry (Solidworks, Autocad, Pro/E, etc.).



## Certificates and Regulations

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



## e-Tools

Requests for quotations, stock availability, energy-saving calculators, searching for cross-references, etc. are available on-line.



## Communication Tools

We can provide you with any promotional sales material you require: brochures, flash animations, sample kits, etc.



## e-Catalogue

Integration of our product data into your information systems (e-procurement, e-commerce site, etc.).





# Parker Legris

Industrial Connector Systems



# Directives and Regulations: the Parker Legris Offer

Parker Legris complies with the directives and regulations listed below and goes beyond its statutory obligations for the ranges in question.



**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).



**NSF 61: NSF / ANSI-61**  
Fittings and tubes complying with this standard are tested and approved by NSF for contact with drinking water.



**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.



**NSF 42 and 58: NSF/ANSI-42/58**  
Tubes complying with this standard are tested and approved by NSF for drinking water treatment systems.



**Pressurised equipment directive: 97/23/EC**  
This directive regulates the design, manufacture and assessment of pressurised equipment to ensure operating safety.



**ACS: Attestation de Conformité Sanitaire (France)**  
Official approval issued by the Direction générale de la Santé Française (French Health Directorate), applies to constituent materials of equipment in contact with water intended for human consumption.



**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.



**KTW: Kunststoffe und Trinkwasser (Germany)**  
Guidelines for the health evaluation of equipment in contact with drinking water, assessment and certification carried out by the TZW.



**Regulation 1935/2004**  
This framework regulation relates to materials and objects designed to come into contact with foodstuffs. It describes specific measures per product group (Art. 5).



**W270: Food contact standard (Germany)**  
Standard describing a test method for determining the microbial growth on non-metal materials designed to come into contact with drinking water. Test and certification carried out by the TZW.



**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.



**WRAS: Water Regulations Advisory Scheme (UK)**  
Fittings approved by this programme are declared compliant for water supply by WRc - NSF.



**NSF 51: NSF / ANSI-51**  
Fittings and tubes complying with this standard are tested and approved by NSF for contact with drinks and foodstuffs.



**DM 174: Ministerial decree (Italy)**  
Declaration of hygiene compliance for equipment used for drinking water, tested and certified by the TIFQ.

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>.



# 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.



### 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.

## 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

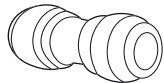
LIQUIfit®

### Tube-to-Tube Connector



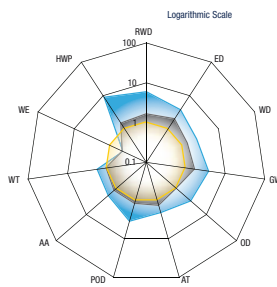
Market Standard

### Tube-to-Tube Connector



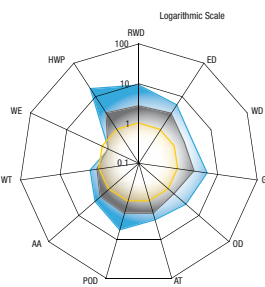
- Parker Legris
- Market Standard in PP
- Market Standard in POM

### Stud Elbow



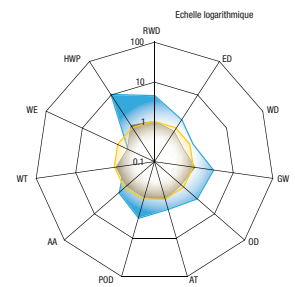
- RWD: Raw Material Depletion
- ED: Energy Depletion
- WD: Water Depletion
- GW: Global Warming

### Tube-to-Tube Connector



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

### Stud Fitting



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

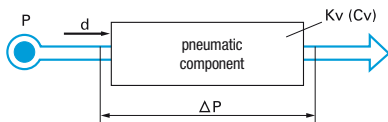


# Technical Guidelines

## Compressed Air Flow and Pressure Drop

Flow represents the quantity of compressed air passing through a section per unit time. It is expressed in l/min, m<sup>3</sup>/min or m<sup>3</sup>/h, at the value expressed in free air, under Standard Reference Atmospheric conditions (ANR) namely: **+20°C, 65% relative humidity, 1.013 bar**, according to standards NFE 48100 and ISO R554, R558.

When in open position and subject to a supply pressure (**P**), the pneumatic component provides a flow (**d**) which generates a pressure drop at the outlet. The pressure difference therefore between the inlet orifice (upstream pressure) and the outlet orifice (downstream pressure), is called the **pressure drop** and is designated by **Δp** (pressure differential).



The **maximum allowable working pressure** of a component is the effective pressure to which this component may be subjected in a given installation.

The **upstream pressure** is the compressed air pressure at the component inlet.

The **downstream pressure** is the outlet pressure from the component.

The **differential pressure (ΔP)** is the pressure difference between the upstream and downstream pressures.

In order to have simple and usable values available for carrying out calculations and comparing the performances of pneumatic components, we use a flow factor called **Kv**. This experimental factor characterises the flow capacity of a component. It equates to the practical value of the flow of water in litres/minute under a Δp of 1 bar with bore fully open.

The flow factor Kv equates to a coefficient of conductivity - the higher its value, the better the flow provided by the component.

The Kv and pressure drop are linked by the following relationship:

$$Q_v = 26.7 K_v \sqrt{\Delta p \times P \text{ upstream}}$$

**Qv** = flow in l/min (ANR)

**Kv** = flow factor

**Δp** = in bar

**P upstream**: in bar absolute

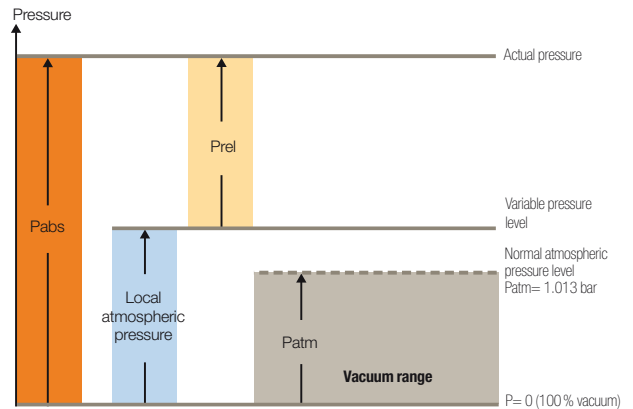
**Cv** is a flow factor equivalent to Kv, but expressed in US gallons per minute under a Δp of 1 PSI. Kv and Cv are therefore linked by the following relationships:

$$K_v = 14.3 C_v \quad - \quad C_v = 0.07 K_v$$

The flow indicated for certain products in the Parker Legris catalogue is the average flow at 6 bar expressed in NI/min of depressurised air at the Standard Reference Atmosphere (ANR).

## Pressure

The normal atmospheric pressure of the air is 1.013 bar at sea level (0 m altitude). It is generally used as a reference for pressure measurements but varies with altitude. For tests and measurements, it is preferable to use absolute bar which relates to an absolute pressure.



$$P_{abs} = P_{atm} + P_{rel}$$

**Pabs** : absolute pressure

**Prel** : relative pressure

**Patm** : atmospheric pressure

The pressure is expressed in bar according to industrial practice. It is the result of a force of daN applied to a surface area in cm<sup>2</sup>.

$$1 \text{ bar} = \frac{1 \text{ daN}}{1 \text{ cm}^2} = 10^5 \text{ pascal}$$

## Vacuum and Vacuum Levels

Vacuum appears when the atmosphere is rarefied. By removing the air from an enclosed space, a depression (or vacuum) is created relative to atmospheric pressure.

Vacuum therefore relates to the state of a fluid where the pressure is less than atmospheric pressure.

The vacuum level may be expressed as:

**depression level** = relative pressure value compared to atmospheric pressure

**vacuum level** in absolute value (defined in comparison with absolute zero)

The common unit of vacuum is the millimetre of mercury (**mm Hg**).

Classification of vacuum

- medium vacuum 1013 to 10 mbar absolute
- primary vacuum 10 to 10<sup>-3</sup> mbar absolute
- secondary vacuum 10<sup>-3</sup> to 10<sup>-6</sup> mbar absolute
- molecular vacuum 10<sup>-6</sup> to 10<sup>-9</sup> mbar absolute
- ultra-vacuum < 10<sup>-9</sup> mbar absolute

# Conversion Tables

## Units Used in this Catalogue

Symbol	Unit
A	ampere
bar	bar
°C	degree Celsius
dBA	decibel
Hz	hertz
kg	kilogram
m	metre
m <sup>2</sup>	square metre
m <sup>3</sup> /h	cubic metres per hour
min	minute
mm	millimetre
mm Hg	millimetres of mercury
N	Newton
NI	litres at standard reference atmospheric pressure (ANR)*
V	volt

\* Parker Legris carries out its tests under normal pressure and temperature conditions (1013 mbar, +20°C). All flows mentioned in this catalogue are therefore expressed in NI/min.

## Units of Flow

L/min	Cfm	m <sup>3</sup> /h
600	21	36
1200	43	72
1800	64	108
2400	85	144
3000	106	180
3600	128	216
4200	149	252
4800	170	288
5400	191	324
6000	213	360
6600	234	396
7200	255	432
7800	277	468

## Units of Vacuum

Depression (mm Hg)	Vacuum (%)	Absolute Pressure (mbar)	Depression (mbar)
0	0	1000	0
-75	10	900	-100
-100	13.3	867	-133
-150	20	800	-200
-200	26.7	733	-267
-225	30	700	-300
-300	40	600	-400
-375	50	500	-500
-400	53.3	467	-533
-450	60	400	-600
-500	66.7	333	-667
-525	70	300	-700
-600	80	200	-800
-675	90	100	-900
-690	92	80	-920

## Units of Pressure

1 bar = 100.000 Pa = 100 kPa = 14.5 psi  
 1 Pa = 0.00001 bar = 0.000145 psi  
 1 psi = 0.069 bar = 6897.8 Pa

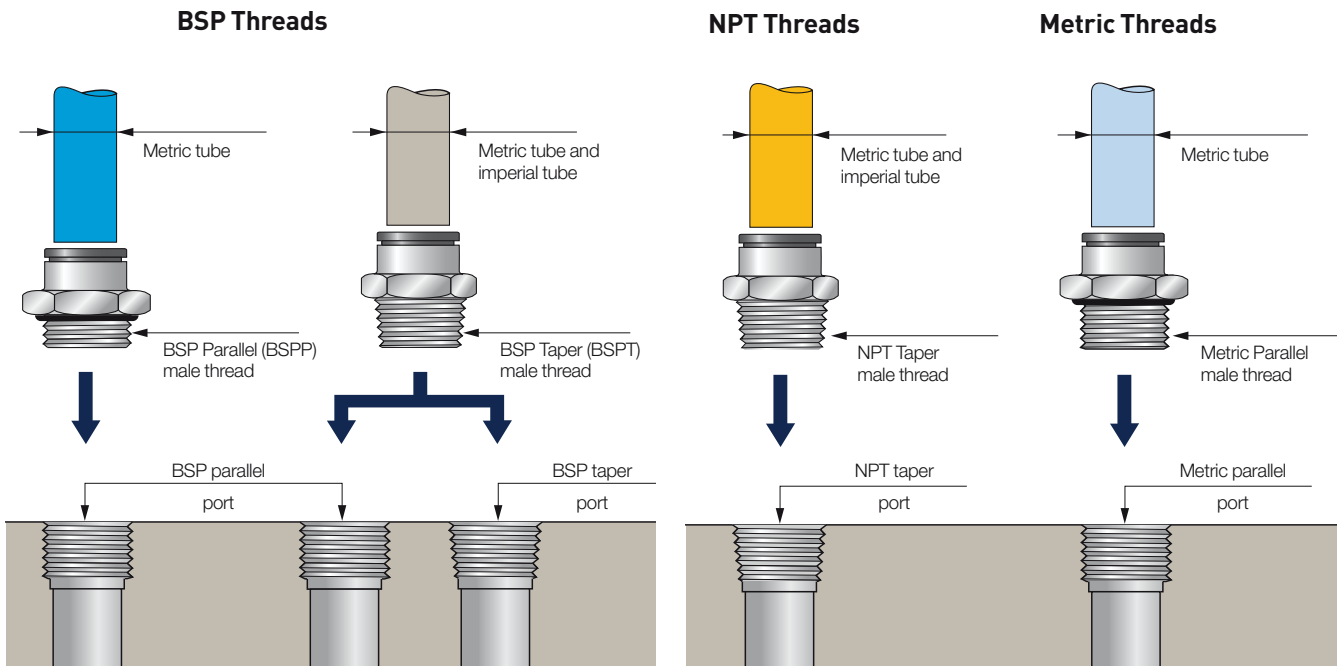
bar	kPa	psi	psi	kPa	bar
0.0005	0.05	0.0073	0.007	0.05	0.0005
0.001	0.10	0.0145	0.015	0.1	0.0010
0.005	0.5	0.0725	0.070	0.48	0.0048
0.01	1	0.145	0.150	1.04	0.0104
0.05	5	0.725	0.700	4.83	0.0483
0.069	6.9	1.000	1.000	6.90	0.0690
0.1	10	1.450	1.500	10.35	0.1035
0.25	25	3.625	3.000	20.70	0.2070
0.5	50	7.250	7.000	48.30	0.4830
0.75	75	10.875	10.000	69.00	0.6900
1.0	100	14.500	15.000	103.50	1.0350
1.5	150	21.750	20.000	138.00	1.3800
2.0	200	29.000	25.000	172.50	1.7250
2.5	250	36.250	30.000	207.00	2.0700
3.0	300	43.500	35.000	241.50	2.4150
3.5	350	50.750	40.000	276.00	2.7600
4.0	400	58.000	50.000	345.00	3.4500
4.5	450	65.250	60.000	414.00	4.1400
5.0	500	72.500	70.000	483.00	4.8300
5.5	550	79.750	80.000	552.00	5.5200
6.0	600	87.000	90.000	621.00	6.2100
7.0	700	101.500	100.000	690.00	6.9000
8.0	800	116.000	110.000	759.00	7.5900
9.0	900	130.500	125.000	828.50	8.2850
10.0	1000	145.000	150.000	1035	10.3500
12.0	1200	174.000	175.000	1207.5	12.0750
14.0	1400	203.000	200.000	1380	13.8000
16.0	1600	232.000	225.000	1552.5	15.5250
18.0	1800	261.000	250.000	1725	17.2500
20.0	2000	290.000	300.000	2070	20.7000

## Units of Temperature

0 °C = +23 °F  
 0 °F = -17.8 °C

°F	°C	°C	°F
-40	-40.0	-40	-40
-30	-34.4	-30	-22
-20	-28.9	-20	-4
-10	-23.3	-10	+14
0	-17.8	0	+32
+10	-12.2	+10	+50
+20	-6.7	+20	+68
+30	-1.1	+30	+86
+40	+4.4	+40	+104
+50	+10.0	+50	+122
+60	+15.6	+60	+140
+70	+21.1	+70	+158
+80	+26.7	+80	+176
+90	+32.2	+90	+194
+100	+37.8	+100	+212
+110	+43.3	+110	+230
+120	+48.9	+120	+248
+130	+54.4	+130	+266
+140	+60.0	+140	+284
+150	+65.6	+150	+302
+160	+71.1	+160	+320
+170	+76.7	+170	+338
+180	+82.2	+180	+356
+190	+87.8	+190	+374
+200	+93.3	+200	+392
+210	+98.9	+210	+410
+220	+104.4	+220	+428
+230	+110.0	+230	+446
+240	+115.6	+240	+464
+250	+121.1	+250	+482

# Fitting Threads



## BSP Threads (British Standard Pipe)

There are two types of "Pipe" profile threads:

- **Parallel (BSPP):** these threads fit in matching parallel ports. Sealing is provided by an O-ring gasket or a sealing washer.
- **Taper (BSPT):** these threads fit in matching parallel or taper ports. Sealing is provided by a pre-coating on the thread.

### Thread designation

#### • BSP Parallel (BSPP):

G followed by the denomination, according to standard ISO 228-1.  
Example: 1/8 BSP parallel thread = G1/8

#### • BSP Taper (BSPT):

R followed by the denomination, according to standard ISO 7-1.  
Example: 1/8 BSP taper (BSPP) thread = R1/8

#### • Female threads:

BSP parallel: G followed by the designation  
BSP taper: R followed by the designation

## NPT Threads (National Pipe Thread)

This is an American standard taper thread which fits into the matching taper port. Sealing is provided by a pre-coating on the thread.  
Example: 1/8 NPT thread = 1/8 NPT

## Metric Threads

These ISO-profile threads are parallel and are fit into the matching parallel port. Sealing is provided by an O-ring or a sealing washer.

### Thread designation

- M depending on the diameter and pitch in millimetres, separated by a multiplication sign, in accordance with standards ISO 68-1 and ISO 965-1.

Example: metric thread diameter 7 with a pitch of 1 mm = M7x1

## Thread Identification

BSP Thread	Code	NPT Thread	Code
1/8	10	1/16	08
1/4	13	1/8	11
3/8	17	1/4	14
1/2	21	3/8	18
3/4	27	1/2	22
1"	34	3/4	28
1 1/4"	42	1"	35
1 1/2"	49	1 1/4"	43
2"	48	1 1/2"	50
		2"	44

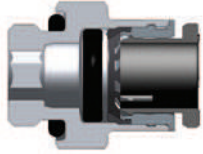
Metric Thread	Code	Metric Thread	Code	Metric Thread	Code
M3x0.5	09	M12x1.25	66	M22x1.5	82
M5x0.8	19	M12x1.5	67	M24x1.5	83
M6x1	52	M13x1.25	68	M27x1.5	85
M7x1	55	M14x1.25	70	M30x2	88
M8x1	56	M14x1.5	71	M33x1.5	90
M8x1.25	57	M16x1.25	74	M39x1.5	36
M10x1	60	M16x1.5	75	M42x1.5	37
M10x1.5	62	M18x1.5	78	M42x2	96
M12x1	65	M20x1.5	80	M48x2	98

# Principle and Advantages of Our Coupling Systems

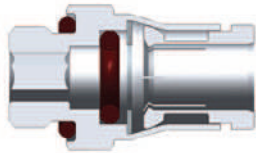
A very large number of technical solutions exist for connecting two pipes together. Leader in industrial connection systems, Parker Legris offers a very wide range of technologies and materials to cover all requirements.

## Push-In Fittings

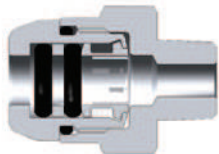
Tube retention with gripping ring



Tube retention with collet



Tube retention with reversed collet



## Principle

Connected and sealed simply by pushing the tube into the fitting.  
Disconnected by pushing on the release button.

### Tube retention with gripping ring:

- No damage to the tube
- Ideal for polymer tubes
- Particularly compact

### Tube retention with collet:

- Robust solution for harsh environments
- Resistant to high pressure, excellent lifespan
- Ideal for grooved metal tubes

### Tube retention with reversed collet:

- Protected disconnection
- Can withstand very high pressures
- Double sealing

## Advantages

Allows flexible and modular systems to be produced quickly.  
Provides a compact and lightweight connection solution.  
Facilitates installation due to a swivelling body.  
Reliability of the connection ensured through the one-piece design.  
Suitable for use with a wide range of tubes.  
Prolongs the lifespan of your systems.

## Compression Fittings



## Principle

Connection and sealing achieved by crimping a metal olive onto a tube.  
The seals are metal to metal.

## Advantages

Can withstand very high pressures and temperatures.  
Allows all types of tube to be connected, both polymer and metal.  
Increases the lifetime of the coupling.

## Spigot Compression Fittings



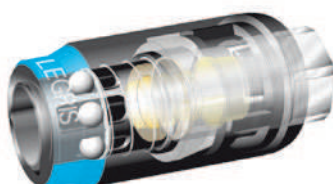
## Principle

Connection and sealing by the distortion and gripping of a plastic tube.

## Advantages

Intended for the connection of very flexible or non-calibrated tubes.

## Couplers



## Principle

A probe with an international profile connects the circuit to the coupler. Certain couplers have a safety device which enables the circuit to be vented before releasing the probe.

## Advantages

Suitable for frequent connection and disconnection.

# Product Selection Table

Push-In Fittings	Materials	Fluids	Maximum Pressure (bar)	Temperature		Performance in Aggressive Environments	
				Min.	Max.	Mechanical	Chemical
<b>LF 3000®</b>	Technical polymer/brass/NBR	Compressed air	20	-20°C	+80°C	Good	Moderate
<b>LIQUIfit®</b>	Bio-sourced polymer/EPDM	Liquids	16	-10°C	+95°C	Moderate	Good
<b>LF 3200</b>	Nickel-plated brass/NBR	Compressed air	20	-15°C	+80°C	Excellent	Moderate
<b>LF 3600</b>	Chemical nickel-plated brass FDA/FKM	All brass-compatible fluids	30	-20°C	+150°C	Excellent	Good
<b>LF 6100</b>	Brass/NBR	Oil, analytical gases	60	-40°C	+120°C	Excellent	Moderate
<b>LF 3800 / LF 3900</b>	316L - 303 stainless steel/FKM	All fluids	30	-20°C	+150°C	Excellent	Excellent

## Cartridges and Customised Products

<b>LF 3000®</b>	Technical polymer/brass or chemical nickel-plated brass/NBR	Compressed air	20	-20°C	+80°C	Good	Moderate
<b>LIQUIfit®</b>	Bio-sourced polymer/EPDM	Liquids	16	-10°C	+95°C	Moderate	Good
<b>LF 3600</b>	Chemical nickel-plated brass FDA/FKM	All brass-compatible fluids	30	-20°C	+150°C	Excellent	Good
<b>LF 3800 / LF 3900</b>	316L - 303 stainless steel/FKM	All fluids	30	-20°C	+150°C	Excellent	Excellent
<b>TL</b>	Brass/NBR	Compressed air	16	-25°C	+80°C	Good	Moderate

## Technical Tubing and Hose

<b>Semi-Rigid PA</b>	Semi-rigid bio-sourced polyamide	Compressed air, industrial fluids	50	-40°C	+100°C	Good	Good
<b>Rigid PA</b>	Rigid polyamide	Compressed air, industrial fluids	58	-40°C	+80°C	Good	Good
<b>Fireproof High Resistance PA</b>	Polyamide with flame-retardant additive	Coolants, industrial fluids (lubricants), compressed air	50	-40°C	+100°C	Excellent	Moderate
<b>Anti-Spark PA and PU with or without PVC sheath</b>	Semi-rigid polyamide with PVC sheath Polyurethane ether with PVC sheath Single-layer polyurethane ester with flame-retardant additive	Compressed air, coolants, industrial fluids	36 (PA) 14 (PU)	-20°C	+70°C +80°C	Excellent	Good
<b>PU single and multi-tube</b>	Polyurethane ester Polyurethane ether "Crystal" food-quality polyurethane ether	Compressed air, industrial fluids (water) or food industry fluids	12	-20°C	+70°C	Excellent	Moderate Good Good
<b>Antistatic PU</b>	Polyurethane filled with conductive particles	Compressed air	10	-20°C	+70°C	Excellent	Moderate
<b>Advanced PE</b>	Polyethylene, 50% reticulated	All fluids	16	-40°C	+95°C	Good	Excellent
<b>FEP</b>	Fluoropolymer: fluorinated ethylene-propylene	All fluids	28	-40°C	+150°C	Good	Excellent
<b>PFA</b>	Fluoropolymer: high purity and coloured perfluoroalkoxy FDA	All fluids	36	-196°C	+260°C	Excellent	Excellent
<b>Antistatic PFA</b>	Fluoropolymer: perfluoroalkoxy filled with conducting particles	All fluids	36	-196°C	+260°C	Excellent	Good
<b>Self-Fastening NBR</b>	NBR with polyamide braid	Compressed air, coolants	16	-20°C	+100°C	Excellent	Good
<b>Braided PU</b>	Polyurethane with polyester braid	Compressed air, industrial fluids	15	-40°C	+75°C	Excellent	Good

## Function Fittings

<b>Polymer Flow Regulators</b>	Technical polymer/nickel-plated brass	Compressed air	10	0°C	+70°C	Good	Moderate
<b>Metal Flow Regulators</b>	Treated brass/nickel-plated brass	Compressed air	10	0°C	+70°C	Excellent	Moderate
<b>Stainless Steel Flow Regulators</b>	316L stainless steel	Compressed air	40	-15°C	+120°C	Excellent	Excellent
<b>Blocking Fittings</b>	Nickel-plated brass	Compressed air	10	-20°C	+70°C	Excellent	Good
<b>Piloted Non-Return Valve</b>	Technical polymer/nickel-plated brass	Compressed air	10	-5°C	+60°C	Good	Moderate
<b>Non-Return Fitting</b>	Technical polymer/nickel-plated brass	Compressed air	10	0°C	+70°C	Good	Moderate
<b>Silencers</b>	Polymer, sintered bronze, nickel-plated brass, 316L stainless steel	Compressed air	12	-20°C	+180°C	Good	Moderate



Compression Fittings	Materials	Fluids	Maximum Pressure (bar)	Temperature		Performance in Aggressive Environments	
				Min.	Max.	Mechanical	Chemical
<b>Brass Fittings</b>	Brass	Compressed air, industrial fluids	550 (depending on the type of tubing used)	-40°C	+250°C	Excellent	Good
<b>Stainless Steel Fittings</b>	316L stainless steel	All fluids	400 (80 bar in aggressive environment)	-40°C	+250°C	Excellent	Excellent
<b>PL Spigot Fittings</b>	Nickel-plated brass	Compressed air, industrial fluids	40	-40°C	+100°C	Good	Good

## Industrial Valves

<b>Universal and Customised Series Ball Valves</b>	Nickel-plated brass	Compressed air, industrial fluids	40	-20°C	+100°C	Excellent	Good
<b>Mini Series Ball Valves</b>	Technical polymer/nickel-plated brass	Compressed air	10	-20°C	+80°C	Good	Moderate
<b>DVGW Series Ball Valves</b>	Nickel-plated brass	Gas, water	40	-40°C	+170°C	Excellent	Good
<b>LIQUIFIT® Ball Valves</b>	Polypropylene	Drinking water, treated water, beverages	10	-15°C	+100°C	Moderate	Good
<b>Standard Series Ball Valves</b>	Nickel- or chromium-plated brass	All industrial fluids	30	-20°C	+130°C	Excellent	Good
<b>Stainless Steel Series Ball Valves</b>	316L stainless steel	All fluids	65	-20°C	+150°C	Excellent	Excellent
<b>Axial Valves</b>	Nickel-plated brass	Compressed air	10	-20°C	+135°C	Excellent	Good

## Industrial Blowguns

<b>Polymer</b>	Technical polymer	Compressed air	10	-20°C	+50°C	Good	Moderate
<b>Metal</b>	Aluminium or nickel-plated brass	Industrial fluids	20	-20°C	+100°C	Excellent	Good

## Quick-Acting Couplers

<b>C 9000 Safety Couplers</b>	Technical polymer	Compressed air	16	-20°C	+60°C	Good	Moderate
<b>Metal Quick-Acting Couplers</b>	Nickel-plated brass	Compressed air, compatible fluids	20	-20°C	+100°C	Excellent	Good
<b>Metal Quick-Acting Couplers</b>	316L stainless steel	Industrial fluids	35	-15°C	+200°C	Excellent	Excellent
<b>Injection Mould Couplers</b>	Nickel-plated brass	Water, oil	10	-15°C	+90°C	Excellent	Good

## Adaptors and Manifolds

<b>Brass Adaptors with sealing washer</b>	Brass	Compressed air	200	-20°C	+80°C	Good	Moderate
<b>Brass Adaptors without sealing washer</b>	Brass	Compressed air	200	-40°C	+150°C	Good	Moderate
<b>Nickel-Plated Brass Adaptors</b>	Nickel-plated brass	Compressed air	60	-10°C	+80°C	Good	Moderate
<b>Stainless Steel Adaptors</b>	316L stainless steel	All fluids	200	-20°C	+180°C	Excellent	Excellent
<b>Manifolds</b>	Anodised aluminium, brass	Compressed air	20	-10°C	+80°C	Excellent	Good

This table is not exhaustive; you will find additional technical information in the various chapters of this catalogue which will enable you to select the product you need.

# Part Number Identification

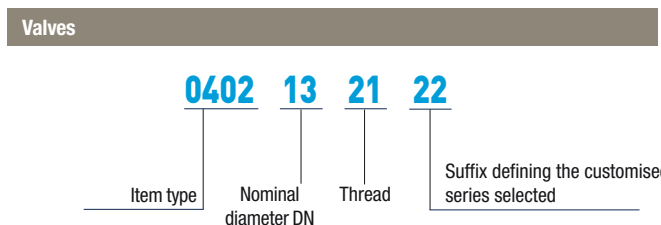
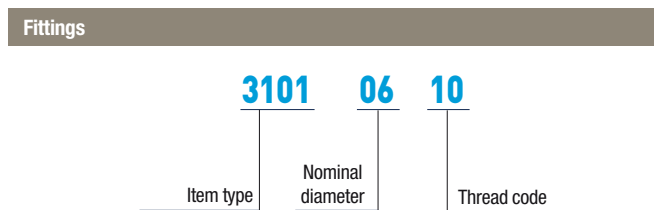
The part numbers used for our product ranges are coded in such a way as to make it easy to identify any particular item. Detailed explanations of these part numbers can be found in the corresponding chapters.

## Fittings and Valves

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 2<sup>nd</sup> nominal diameter (2 digits)
- a suffix, if applicable



**Nominal diameter code:** equates to the outside diameter of the tube.  
**Thread code:** see tables page 12.

**Nominal diameter code:** equates to the bore diameter of the valve.  
**Thread code:** see tables page 12.

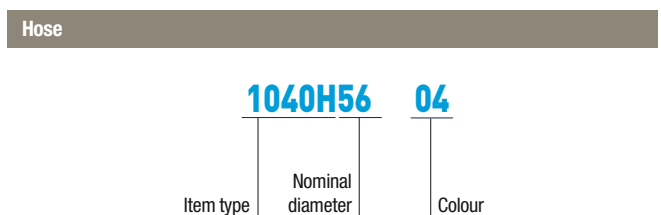
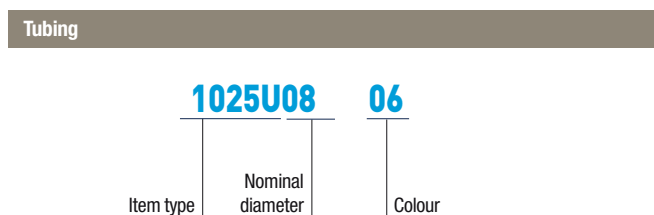
When the product does not have a thread, the code used is: 00.

## Technical Tubing and Hose

The part numbers are selected using a technical mnemonic code.

Each tube and hose 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 table below.

**Nominal diameter code:** equates to the inside diameter code.  
**Colour code:** see table below.

00 = □    01 = ■    02 = ■    03 = ■    04 = ■    05 = ■    06 = ■    07 = ■    08 = □

For other colours, refer to chapter "Technical Tubing and Hose".

<b>Push-In Fittings</b>		Chapter 1
LF 3000® LF 3200: 3 mm LIQUIfit®	LF 3600 LF 3800/LF 3900 LF 6100	
<b>Cartridges and Customised Products</b>		Chapter 2
Polymer: Carstick® & Quick Fitting Metal: LF Cartridges & TL Fittings Customised Products		
<b>Technical Tubing and Hose</b>		Chapter 3
Flexible Calibrated Tubing Calibrated Multi-Tubing Recoil Tubing and Hose	Calibrated Braided Hose Accessories	
<b>Function Fittings</b>		Chapter 4
Flow Control Regulators Piloted Function Fittings Non-Return Valves & LIQUIfit®	Pressure Fittings Other Function Fittings Silencers	
<b>Compression Fittings</b>		Chapter 5
Brass Compression Fittings Stainless Steel Compression Fittings PL Nickel-Plated Brass Spigot Fittings		
<b>Industrial Valves</b>		Chapter 6
Ball Valves & LIQUIfit® Needle & Butterfly Valves Axial Valves		
<b>Industrial Blowguns</b>		Chapter 7
Polymer Metal Kits		
<b>Quick-Acting Couplers</b>		Chapter 8
Polymer: C 9000 Safety Metal: Nickel-Plated Brass and Stainless Steel		
<b>Adaptors and Manifolds</b>		Chapter 9
Adaptors: Brass, Nickel-Plated Brass, Stainless Steel Manifolds		



# Push-In Fittings

**LF 3000®**

**LF 3200: 3 mm**

**LIQUIfit®**

**LF 3600**

**LF 3800/ LF 3900**

**LF 6100**



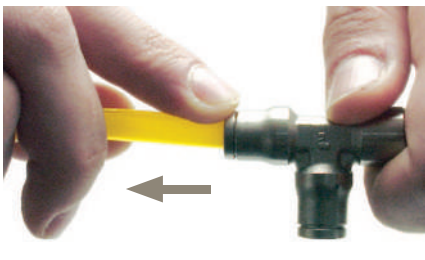
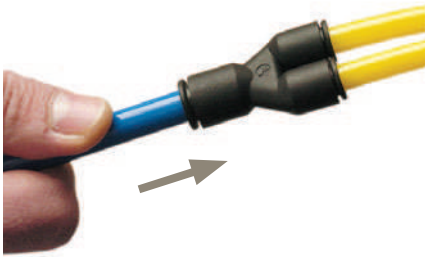


# Principle and Advantages of the Push-In Fitting

The **push-in fitting** is the most intuitive way of connecting tubes to a fitting in order to create a fluid distribution network. Thanks to its **quick installation**, versatility and **exceptional lifespan**, the push-in fitting contributes to improving machine efficiency. Moreover, the advanced patented design of the LF 3000® contributes to reducing **total cost of use**.

## Connection

- Manual connection and disconnection without the use of tools
- Release button available in 5 colours, to identify different circuits



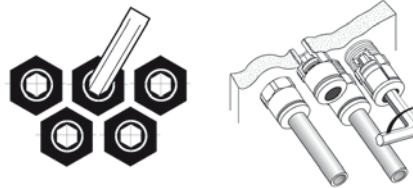
## Assembly

All straight connectors are fitted with an internal hexagon for ease of assembly with the use of an Allen spanner. This enables assembly in restricted spaces.

### Threads



### Close Porting Assembly



Our fittings are designed for internal (above) or external assembly.

## Sealing and 100 % Leak-Tested

The quality of the sealing material, selected specifically for the application, ensures excellent longevity of the fitting. In this way, Parker Legris offers the best return on investment on the market.

### Quality of Design

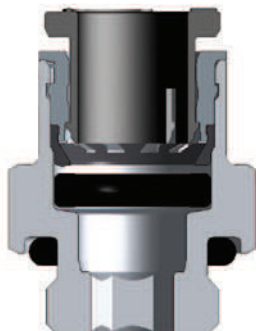
- Unique and patented sealing technology
- Rigorous selection of materials:  
NBR: ideally suited for compressed air  
EPDM: perfectly suited for food and beverage  
FKM: all fluids and high temperatures
- 100 % leak-tested in the production process

### Benefits of Use

- The lowest leak rate on the market, whatever the temperature and length of use
- Perfectly suited to primary vacuum
- Full bore for optimum flow
- Optimum gripping of tube guaranteed

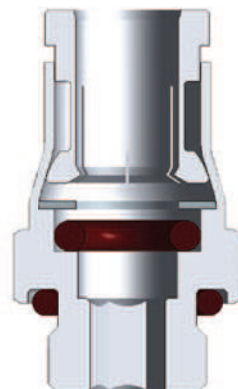
## Gripping Ring Technology

- Ideal for polymer tubing, even for soft tubing
- Excellent tube guidance
- No tube movement under pressure
- Very compact solution



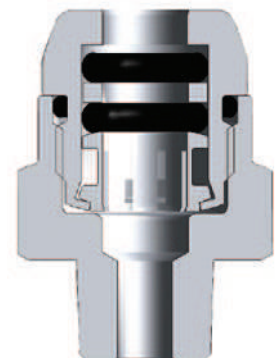
## Gripping with Collet

- For polymer and grooved metal tubing (groove drawings available on request)
- Resistant to high pressure, excellent lifespan
- Robust solution for harsh environments



## Gripping with Reversed Collet

- For rigid polymer and grooved metal tubing
- Resistant to high pressure
- Excellent durability
- Optimum sealing



# Push-In Fittings

## LF 3000® Push-In Fittings

(P. 1-4)



**Fluids:** compressed air

**Materials:** technical polymer, nickel-plated brass, NBR

**Pressure:** 20 bar

**Temperature:** -20°C to +80°C

**Ø metric:** 3 mm to 16 mm

**Ø inch:** 1/8" to 1/2"

## LF 3200 3 mm Push-In Fittings

(P. 1-39)



**Fluids:** compressed air, non-corrosive fluids

**Materials:** chemical nickel-plated brass, NBR

**Pressure:** 20 bar

**Temperature:** -15°C to +80°C

**Ø metric:** 3 mm

## LIQUIfit® Push-In Fittings

(P. 1-44)



**Fluids:** water, beverages, coolants, inert gases

**Materials:** biopolymer, EPDM

**Pressure:** 16 bar

**Temperature:** -10°C to +95°C

**Ø metric:** 4 mm to 12 mm

**Ø inch:** 5/32" to 1/2"

## LF 3600 Push-In Fittings

(P. 1-65)



**Fluids:** compressed air, slightly corrosive industrial fluids

**Materials:** high phosphorus nickel-plated brass, FKM

**Pressure:** 30 bar

**Temperature:** -20°C to +150°C

**Ø metric:** 4 mm to 14 mm

## LF 3800/LF 3900 Push-In Fittings

(P. 1-77)



**Fluids:** industrial fluids, chemicals, medical fluids, beverages

**Materials:** stainless steel, FKM

**Pressure:** 30 bar

**Temperature:** -20°C to +150°C

**Ø metric:** 4 mm to 12 mm

**Ø inch:** 3/16" to 1/2"

## LF 6100 Push-In Fittings

(P. 1-89)



**Fluids:** compressed air, oil, water

**Materials:** brass, NBR

**Pressure:** 60 bar

**Temperature:** -40°C to +120°C

**Ø metric:** 4 mm to 10 mm

For more details on these ranges, you will find a selection guide in the "Introduction" section of this catalogue.

# LF 3000® Push-In Fittings Range

## Stud Fittings

### Straights

**3175**  
BSPT/NPT  
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**3101**  
BSPP/Metric  
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**3181**  
Metric  
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**3114**  
BSPP/Metric  
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**3121**  
BSPT/NPT  
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**3131**  
BSPP/Metric  
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### Straights - Inch

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NPT/BSPT  
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NPT  
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### Elbows

**3109**  
BSPT/NPT  
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**3199**  
BSPP/Metric  
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**3192**  
BSPP  
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**3129**  
BSPT  
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**3169**  
BSPP/Metric  
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**3113**  
BSPT  
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**3133**  
BSPP/Metric  
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**3109**  
NPT/BSPT  
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### Elbows - Inch

### Tees

**3108**  
BSPT  
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**3198**  
BSPP/Metric  
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**3103**  
BSPT  
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**3193**  
BSPP/Metric  
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### Y

**3148**  
BSPT  
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**3158**  
BSPP/Metric  
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**3112**  
BSPT  
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**3132**  
BSPP  
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### Cartridge

**3100**  
Carstick®  
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### Cartridge - Inch

**3100**  
Carstick®  
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## Tube-to-Tube Fittings

### Straight

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### Straight - Inch

**3106**  
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### Elbow

**3102**  
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### Elbow - Inch

**3102**  
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### Tee

**3104**  
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### Tee - Inch

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### Y

**3140**  
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### Cross

**3107**  
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## Bulkhead Connector Fittings

### Straights

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**3146**  
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**3136**  
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### Elbow

**3139**  
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## Multiple Fittings

### Y

**3144**  
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### Tee

**3304**  
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### Elbow

**3306**  
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### Manifold

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# LF 3000® Push-In Fittings Range

## Plug-In Fittings and Accessories

### Elbows

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**3180**  
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### Tees

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**3188**  
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### Y

**3142**  
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**3143**  
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### Elbows - Inch

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### Accessories

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### Accessories - Inch

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## Banjo Fittings

### Banjo Fittings

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BSPP/Metric  
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**3018**  
BSPT  
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**3124**  
BSPP/Metric  
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**3149**  
BSPP/Metric  
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**3119**  
BSPP/Metric  
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### Modular Banjo Fittings

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Single Body  
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**3539**  
Double Body  
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**3549**  
Y Body  
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**3529**  
BSPP  
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**3524**  
BSPP/Metric  
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## Multi-Connectors

**3300**  
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**3320**  
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**3329**  
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**3381**  
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## Self-Sealing and Oscillating Fittings

### Self-Sealing Fittings

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BSPP  
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**3091**  
BSPT  
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**3160**  
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**3159**  
BSPT  
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**3189**  
BSPP/Metric  
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### Oscillating Fittings

## Accessories for Push-In Fittings

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**Clip**  
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**3000 70**  
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**3110**  
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**0178**  
BSPP/Metric  
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**0222**  
BSPP/Metric  
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# LF 3000® Push-In Fittings

The LF 3000® range, with its wide variety of shapes and configurations, allows you to find **the perfect product to meet your needs** and thus **optimise the use** of your equipment.

## Product Advantages

### World-Class Performance

- 40 years of expertise
- Full bore for optimum flow
- Ideal for vacuum or pressure applications
- Automatic sealing guaranteed, in both static and dynamic applications
- Materials with high resistance
- Durability of product and equipment

### Optimal Design

- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Compact and aesthetic design: reduced dimensions for space-saving
- Tube fixed during connection, preventing leakage
- Conforms to ISO 14743
- Excellent vacuum performance thanks to the patented sealing technology
- Lightweight: reduced energy consumption of operating systems
- Parallel threaded fitting with a patented captive O-ring seal
- Maximum flexibility due to the wide product range



- Robotics
- Automotive Process
- Pneumatics
- Semi-Conductors
- Textile
- Packaging
- Vacuum

Applications

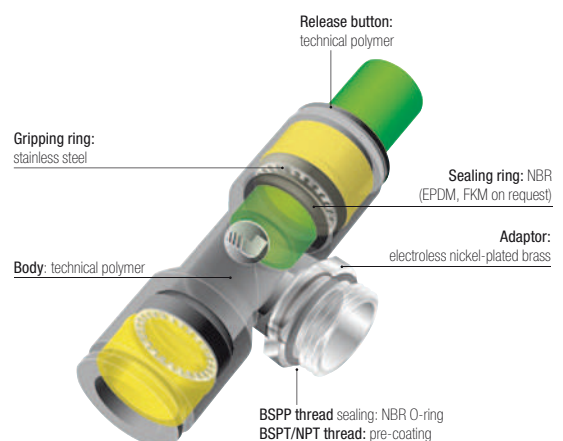
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: please consult us
<b>Working Pressure</b>	Vacuum to 20 bar
<b>Working Temperature</b>	-20°C to +80°C

Tightening Torque (daN.m)	Threads								
	M3 x0.5	M5 x0.8	M7 x1	M10 x1	M12 x1.5	G1/8	G1/4	G3/8	G1/2
	0.06	0.16	0.8	0.8	1.1	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

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes  
DI: 97/23/EC (PED)

DI: 2002/95/EC (RoHS), 2011/65/EC  
DI: 1907/2006 (REACH)


# Stud Fittings

## 3175 Stud Fitting, Male BSPT Thread

ØD	C					F1	F2	H	kg
			Nickel-plated brass, NBR						
4	R1/8	<a href="#">3175 04 10</a>	10	3	9.5	0.005			
	R1/4	<a href="#">3175 04 13</a>	14	3	6.5	0.012			
	R3/8	<a href="#">3175 04 17</a>	17	3	8	0.024			
6	R1/8	<a href="#">3175 06 10</a>	10	4	11.5	0.005			
	R1/4	<a href="#">3175 06 13</a>	14	4	8.5	0.011			
	R3/8	<a href="#">3175 06 17</a>	17	4	8.5	0.022			
8	R1/2	<a href="#">3175 06 21</a>	21	4	9	0.043			
	R1/8	<a href="#">3175 08 10</a>	13	5	20	0.011			
	R1/4	<a href="#">3175 08 13</a>	14	6	17	0.014			
10	R3/8	<a href="#">3175 08 17</a>	17	6	13	0.021			
	R1/2	<a href="#">3175 08 21</a>	21	6	12	0.040			
	R1/8	<a href="#">3175 10 10</a>	16	5	22.5	0.017			
12	R1/4	<a href="#">3175 10 13</a>	16	7	20	0.017			
	R3/8	<a href="#">3175 10 17</a>	17	8	16.5	0.019			
	R1/2	<a href="#">3175 10 21</a>	21	8	14	0.037			
14	R1/4	<a href="#">3175 12 13</a>	19	7	26.5	0.029			
	R3/8	<a href="#">3175 12 17</a>	19	9	24	0.028			
	R1/2	<a href="#">3175 12 21</a>	21	10	19.5	0.036			
16	R3/8	<a href="#">3175 14 17</a>	22	9	28.5	0.043			
	R1/2	<a href="#">3175 14 21</a>	24	10	23.5	0.047			
16	R3/8	<a href="#">3175 16 17</a>	27	9	32.5	0.068			
	R1/2	<a href="#">3175 16 21</a>	27	12	32.5	0.079			

Pre-coated thread


## 3175 Stud Fitting, Male NPT Thread

ØD	C					F1	F2	H	kg
			Nickel-plated brass, NBR						
6	NPT1/8	<a href="#">3175 06 11</a>	11	4	11.5	0.006			
	NPT1/4	<a href="#">3175 06 14</a>	14	4	8.5	0.012			
	NPT1/4	<a href="#">3175 10 14</a>	16	7	20	0.018			
10	NPT3/8	<a href="#">3175 10 18</a>	18	8	16.5	0.023			
	NPT1/2	<a href="#">3175 10 22</a>	22	8	14	0.037			
12	NPT3/8	<a href="#">3175 12 18</a>	19	9	24	0.030			
	NPT1/2	<a href="#">3175 12 22</a>	22	10	19.5	0.037			

Pre-coated thread

## 3175 Stud Fitting, Male NPT Thread

Inch

ØD	C					F1	F2	H	kg
			Nickel-plated brass, NBR						
1/8	NPT1/8	<a href="#">3175 53 11</a>	11	2	7.2	0.006			
	NPT1/4	<a href="#">3175 53 14</a>	14	2	8	0.016			
1/4	NPT1/8	<a href="#">3175 56 11</a>	11	4	11.9	0.006			
	NPT1/4	<a href="#">3175 56 14</a>	14	4	9.4	0.013			
	NPT3/8	<a href="#">3175 56 18</a>	18	5	7.6	0.024			
3/8	NPT1/8	<a href="#">3175 60 11</a>	16	4	22.7	0.019			
	NPT1/4	<a href="#">3175 60 14</a>	16	7	20.5	0.019			
1/2	NPT3/8	<a href="#">3175 60 18</a>	18	7	17.5	0.026			
	NPT3/8	<a href="#">3175 62 18</a>	22	9.5	25.9	0.047			
	NPT1/2	<a href="#">3175 62 22</a>	24	9.5	22.1	0.064			

Pre-coated thread


Other products are available upon request; please do not hesitate to consult us.

# Stud Fittings

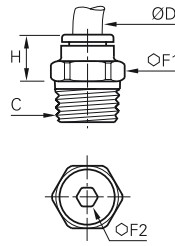
**3175**

Stud Fitting, Male BSPT Thread

Inch

ØD	C					kg
			F1	F2	H	
1/8	R1/8	<b>3175 53 10</b>	11	3	8.5	0.005
	R1/8	<b>3175 55 10</b>	11.1	3.2	15.5	0.009
3/16	R1/4	<b>3175 55 13</b>	14.3	4	15	0.020
	R1/8	<b>3175 56 10</b>	11	4	12	0.006
1/4	R1/4	<b>3175 56 13</b>	14	4	9.5	0.021
	R1/4	<b>3175 60 13</b>	18	5	7.5	0.017
3/8	R3/8	<b>3175 60 17</b>	13	5	20	0.019
	R1/2	<b>3175 60 21</b>	14	6	16.8	0.061
1/2	R1/4	<b>3175 62 13</b>	22	6	26.9	0.044
	R3/8	<b>3175 62 17</b>	22	7	25.9	0.048
	R1/2	<b>3175 62 21</b>	24	7	20.5	0.049


Nickel-plated brass, NBR



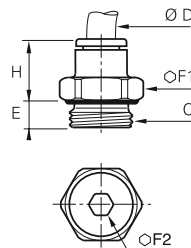
Pre-coated thread

**3101**

Stud Fitting, Male BSPP and Metric Thread

ØD	C					kg	
			E	F1	F2		H
3	M3x0.5	<b>3101 03 09*</b>	2.5	8	-	12.5	0.003
	M5x0.8	<b>3101 03 19</b>	3.5	8	2.5	12.5	0.004
	M3x0.5	<b>3101 04 09*</b>	2.5	8	-	14.5	0.003
4	M5x0.8	<b>3101 04 19</b>	3	9	2.5	14	0.003
	M7x1	<b>3101 04 55</b>	5	10	2.5	14	0.004
	G1/8	<b>3101 04 10</b>	5	13	3	11.5	0.007
6	G1/4	<b>3101 04 13</b>	5.5	16	3	10.5	0.011
	M5x0.8	<b>3101 06 19</b>	3	11	2.5	16	0.005
	M7x1	<b>3101 06 55</b>	5	10	3	16	0.006
	M10x1	<b>3101 06 60</b>	5	13	4	13	0.007
	M12x1.5	<b>3101 06 67</b>	5.5	15	4	13	0.009
	G1/8	<b>3101 06 10</b>	5	13	4	13	0.007
	G1/4	<b>3101 06 13</b>	5.5	16	4	12.5	0.011
	G3/8	<b>3101 06 17</b>	5.5	20	4	13	0.020
	G1/2	<b>3101 06 21</b>	7.5	24	4	20	0.040
	M10x1	<b>3101 08 60</b>	5	13	5	21	0.011
8	M12x1.5	<b>3101 08 67</b>	5.5	15	5	21	0.015
	G1/8	<b>3101 08 10</b>	4.5	13	5	20.5	0.011
	G1/4	<b>3101 08 13</b>	5.5	16	6	19.5	0.016
	G3/8	<b>3101 08 17</b>	5.5	20	6	18	0.022
	G1/2	<b>3101 08 21</b>	7.5	24	6	16.5	0.039
10	G1/4	<b>3101 10 13</b>	5.5	16	7	23	0.018
	G3/8	<b>3101 10 17</b>	5.5	20	8	19.5	0.021
	G1/2	<b>3101 10 21</b>	7.5	24	8	18.5	0.033
12	G1/4	<b>3101 12 13</b>	5.5	19	7	27.5	0.027
	G3/8	<b>3101 12 17</b>	5.5	20	9	27	0.029
14	G1/2	<b>3101 12 21</b>	7	24	11	22.5	0.035
	G3/8	<b>3101 14 17</b>	5.5	22	9	29.5	0.041
16	G1/2	<b>3101 14 21</b>	7	24	11	28	0.047
	G3/8	<b>3101 16 17</b>	7.5	27	9	32.5	0.061
	G1/2	<b>3101 16 21</b>	9	27	12	32.5	0.066


Nickel-plated brass, NBR



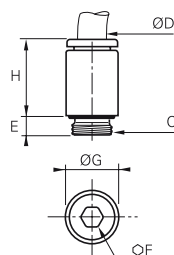
\* Bi-material O ring seal

**3181**

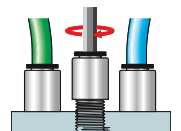
Stud Fitting Round Body, Male Metric Thread

ØD	C					kg	
			E	F	G		H
4	M5x0.8	<b>3181 04 19</b>	3.5	2.5	8.5	14.5	0.005
	M7x1	<b>3181 04 55</b>	5	3	10	14	0.004
6	M5x0.8	<b>3181 06 19</b>	3.5	2.5	11	16	0.007
	M7x1	<b>3181 06 55</b>	5	3	10	16	0.005

Nickel-plated brass, NBR




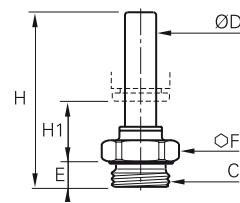

The internal hexagon and circular external shape ensure that model 3181 provides highly compact assembly. They can be easily installed with an Allen key without the need of a spanner.




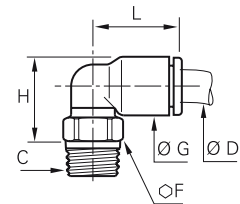



# Stud Fittings

## 3131 Stud Standpipe, Male BSPP and Metric Thread


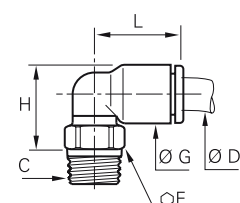

	Technical polymer, nickel-plated brass, NBR		<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>kg</b>																																																																																																															
			<table border="1"> <tr> <td rowspan="3">4</td> <td>M5x0.8</td> <td><a href="#">3131 04 19</a></td> <td>3.5</td> <td>8</td> <td>31</td> <td>16</td> <td>0.002</td> </tr> <tr> <td>G1/8</td> <td><a href="#">3131 04 10</a></td> <td>5</td> <td>13</td> <td>30</td> <td>13.5</td> <td>0.005</td> </tr> <tr> <td>G1/4</td> <td><a href="#">3131 04 13</a></td> <td>5.5</td> <td>16</td> <td>31</td> <td>13.5</td> <td>0.010</td> </tr> <tr> <td rowspan="2">6</td> <td>G1/8</td> <td><a href="#">3131 06 10</a></td> <td>5</td> <td>13</td> <td>32</td> <td>13.5</td> <td>0.005</td> </tr> <tr> <td>G1/4</td> <td><a href="#">3131 06 13</a></td> <td>5.5</td> <td>16</td> <td>33</td> <td>13.5</td> <td>0.010</td> </tr> <tr> <td rowspan="3">8</td> <td>G1/8</td> <td><a href="#">3131 08 10</a></td> <td>5</td> <td>13</td> <td>35.5</td> <td>12.5</td> <td>0.008</td> </tr> <tr> <td>G1/4</td> <td><a href="#">3131 08 13</a></td> <td>5.5</td> <td>16</td> <td>34.5</td> <td>10.5</td> <td>0.010</td> </tr> <tr> <td>G3/8</td> <td><a href="#">3131 08 17</a></td> <td>5.5</td> <td>20</td> <td>34.5</td> <td>10.5</td> <td>0.015</td> </tr> <tr> <td rowspan="3">10</td> <td>G1/4</td> <td><a href="#">3131 10 13</a></td> <td>5.5</td> <td>16</td> <td>43.5</td> <td>17.5</td> <td>0.012</td> </tr> <tr> <td>G3/8</td> <td><a href="#">3131 10 17</a></td> <td>5.5</td> <td>20</td> <td>41.5</td> <td>15.5</td> <td>0.015</td> </tr> <tr> <td>G1/2</td> <td><a href="#">3131 10 21</a></td> <td>7.5</td> <td>24</td> <td>41.5</td> <td>15.5</td> <td>0.024</td> </tr> <tr> <td rowspan="2">12</td> <td>G3/8</td> <td><a href="#">3131 12 17</a></td> <td>5.5</td> <td>20</td> <td>42</td> <td>12</td> <td>0.015</td> </tr> <tr> <td>G1/2</td> <td><a href="#">3131 12 21</a></td> <td>7</td> <td>24</td> <td>43.5</td> <td>12</td> <td>0.025</td> </tr> <tr> <td rowspan="2">14</td> <td>G3/8</td> <td><a href="#">3131 14 17</a></td> <td>5.5</td> <td>20</td> <td>46.5</td> <td>14</td> <td>0.018</td> </tr> <tr> <td>G1/2</td> <td><a href="#">3131 14 21</a></td> <td>7</td> <td>24</td> <td>48</td> <td>13.5</td> <td>0.025</td> </tr> </table>											4	M5x0.8	<a href="#">3131 04 19</a>	3.5	8	31	16	0.002	G1/8	<a href="#">3131 04 10</a>	5	13	30	13.5	0.005	G1/4	<a href="#">3131 04 13</a>	5.5	16	31	13.5	0.010	6	G1/8	<a href="#">3131 06 10</a>	5	13	32	13.5	0.005	G1/4	<a href="#">3131 06 13</a>	5.5	16	33	13.5	0.010	8	G1/8	<a href="#">3131 08 10</a>	5	13	35.5	12.5	0.008	G1/4	<a href="#">3131 08 13</a>	5.5	16	34.5	10.5	0.010	G3/8	<a href="#">3131 08 17</a>	5.5	20	34.5	10.5	0.015	10	G1/4	<a href="#">3131 10 13</a>	5.5	16	43.5	17.5	0.012	G3/8	<a href="#">3131 10 17</a>	5.5	20	41.5	15.5	0.015	G1/2	<a href="#">3131 10 21</a>	7.5	24	41.5	15.5	0.024	12	G3/8	<a href="#">3131 12 17</a>	5.5	20	42	12	0.015	G1/2	<a href="#">3131 12 21</a>	7	24	43.5	12	0.025	14	G3/8	<a href="#">3131 14 17</a>	5.5	20	46.5	14	0.018	G1/2	<a href="#">3131 14 21</a>	7	24
4	M5x0.8	<a href="#">3131 04 19</a>	3.5	8	31	16	0.002																																																																																																																		
	G1/8	<a href="#">3131 04 10</a>	5	13	30	13.5	0.005																																																																																																																		
	G1/4	<a href="#">3131 04 13</a>	5.5	16	31	13.5	0.010																																																																																																																		
6	G1/8	<a href="#">3131 06 10</a>	5	13	32	13.5	0.005																																																																																																																		
	G1/4	<a href="#">3131 06 13</a>	5.5	16	33	13.5	0.010																																																																																																																		
8	G1/8	<a href="#">3131 08 10</a>	5	13	35.5	12.5	0.008																																																																																																																		
	G1/4	<a href="#">3131 08 13</a>	5.5	16	34.5	10.5	0.010																																																																																																																		
	G3/8	<a href="#">3131 08 17</a>	5.5	20	34.5	10.5	0.015																																																																																																																		
10	G1/4	<a href="#">3131 10 13</a>	5.5	16	43.5	17.5	0.012																																																																																																																		
	G3/8	<a href="#">3131 10 17</a>	5.5	20	41.5	15.5	0.015																																																																																																																		
	G1/2	<a href="#">3131 10 21</a>	7.5	24	41.5	15.5	0.024																																																																																																																		
12	G3/8	<a href="#">3131 12 17</a>	5.5	20	42	12	0.015																																																																																																																		
	G1/2	<a href="#">3131 12 21</a>	7	24	43.5	12	0.025																																																																																																																		
14	G3/8	<a href="#">3131 14 17</a>	5.5	20	46.5	14	0.018																																																																																																																		
	G1/2	<a href="#">3131 14 21</a>	7	24	48	13.5	0.025																																																																																																																		

## 3109 Stud Elbow, Male BSPT Thread

	Technical polymer, nickel-plated brass, NBR		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>																																																																																																																																																																		
			<table border="1"> <tr> <td rowspan="3">4</td> <td>R1/8</td> <td><a href="#">3109 04 10</a></td> <td>10</td> <td>8.5</td> <td>13.5</td> <td>14</td> <td>0.006</td> </tr> <tr> <td>R1/4</td> <td><a href="#">3109 04 13</a></td> <td>14</td> <td>8.5</td> <td>14</td> <td>14</td> <td>0.015</td> </tr> <tr> <td>R3/8</td> <td><a href="#">3109 04 17</a></td> <td>17</td> <td>8.5</td> <td>13.5</td> <td>14</td> <td>0.018</td> </tr> <tr> <td rowspan="3">6</td> <td>R1/8</td> <td><a href="#">3109 06 10</a></td> <td>10</td> <td>10.5</td> <td>15.5</td> <td>16</td> <td>0.006</td> </tr> <tr> <td>R1/4</td> <td><a href="#">3109 06 13</a></td> <td>14</td> <td>10.5</td> <td>16</td> <td>16</td> <td>0.015</td> </tr> <tr> <td>R3/8</td> <td><a href="#">3109 06 17</a></td> <td>17</td> <td>10.5</td> <td>16</td> <td>16</td> <td>0.019</td> </tr> <tr> <td rowspan="3">8</td> <td>R1/2</td> <td><a href="#">3109 06 21</a></td> <td>21</td> <td>10.5</td> <td>16.5</td> <td>16</td> <td>0.034</td> </tr> <tr> <td>R1/8</td> <td><a href="#">3109 08 10</a></td> <td>10</td> <td>13.5</td> <td>19</td> <td>23</td> <td>0.007</td> </tr> <tr> <td>R1/4</td> <td><a href="#">3109 08 13</a></td> <td>14</td> <td>13.5</td> <td>18</td> <td>23</td> <td>0.014</td> </tr> <tr> <td rowspan="3">10</td> <td>R3/8</td> <td><a href="#">3109 08 17</a></td> <td>17</td> <td>13.5</td> <td>18</td> <td>23</td> <td>0.018</td> </tr> <tr> <td>R1/2</td> <td><a href="#">3109 08 21</a></td> <td>21</td> <td>13.5</td> <td>19.5</td> <td>23</td> <td>0.033</td> </tr> <tr> <td>R1/8</td> <td><a href="#">3109 10 10</a></td> <td>15</td> <td>16</td> <td>23</td> <td>26.5</td> <td>0.012</td> </tr> <tr> <td rowspan="3">12</td> <td>R1/4</td> <td><a href="#">3109 10 13</a></td> <td>15</td> <td>16</td> <td>22</td> <td>26.5</td> <td>0.014</td> </tr> <tr> <td>R3/8</td> <td><a href="#">3109 10 17</a></td> <td>17</td> <td>16</td> <td>22</td> <td>26.5</td> <td>0.019</td> </tr> <tr> <td>R1/2</td> <td><a href="#">3109 10 21</a></td> <td>21</td> <td>16</td> <td>22</td> <td>26.5</td> <td>0.031</td> </tr> <tr> <td rowspan="3">14</td> <td>R1/4</td> <td><a href="#">3109 12 13</a></td> <td>15</td> <td>19</td> <td>25</td> <td>31</td> <td>0.016</td> </tr> <tr> <td>R3/8</td> <td><a href="#">3109 12 17</a></td> <td>17</td> <td>19</td> <td>25</td> <td>31</td> <td>0.022</td> </tr> <tr> <td>R1/2</td> <td><a href="#">3109 12 21</a></td> <td>21</td> <td>19</td> <td>25</td> <td>31</td> <td>0.033</td> </tr> <tr> <td rowspan="2">16</td> <td>R3/8</td> <td><a href="#">3109 14 17</a></td> <td>20</td> <td>22</td> <td>30.5</td> <td>35.5</td> <td>0.031</td> </tr> <tr> <td>R1/2</td> <td><a href="#">3109 14 21</a></td> <td>24</td> <td>22</td> <td>28.5</td> <td>35.5</td> <td>0.041</td> </tr> <tr> <td rowspan="2">16</td> <td>R3/8</td> <td><a href="#">3109 16 17</a></td> <td>27</td> <td>27</td> <td>53</td> <td>39</td> <td>0.106</td> </tr> <tr> <td>R1/2</td> <td><a href="#">3109 16 21</a></td> <td>27</td> <td>27</td> <td>53</td> <td>39</td> <td>0.104</td> </tr> </table>											4	R1/8	<a href="#">3109 04 10</a>	10	8.5	13.5	14	0.006	R1/4	<a href="#">3109 04 13</a>	14	8.5	14	14	0.015	R3/8	<a href="#">3109 04 17</a>	17	8.5	13.5	14	0.018	6	R1/8	<a href="#">3109 06 10</a>	10	10.5	15.5	16	0.006	R1/4	<a href="#">3109 06 13</a>	14	10.5	16	16	0.015	R3/8	<a href="#">3109 06 17</a>	17	10.5	16	16	0.019	8	R1/2	<a href="#">3109 06 21</a>	21	10.5	16.5	16	0.034	R1/8	<a href="#">3109 08 10</a>	10	13.5	19	23	0.007	R1/4	<a href="#">3109 08 13</a>	14	13.5	18	23	0.014	10	R3/8	<a href="#">3109 08 17</a>	17	13.5	18	23	0.018	R1/2	<a href="#">3109 08 21</a>	21	13.5	19.5	23	0.033	R1/8	<a href="#">3109 10 10</a>	15	16	23	26.5	0.012	12	R1/4	<a href="#">3109 10 13</a>	15	16	22	26.5	0.014	R3/8	<a href="#">3109 10 17</a>	17	16	22	26.5	0.019	R1/2	<a href="#">3109 10 21</a>	21	16	22	26.5	0.031	14	R1/4	<a href="#">3109 12 13</a>	15	19	25	31	0.016	R3/8	<a href="#">3109 12 17</a>	17	19	25	31	0.022	R1/2	<a href="#">3109 12 21</a>	21	19	25	31	0.033	16	R3/8	<a href="#">3109 14 17</a>	20	22	30.5	35.5	0.031	R1/2	<a href="#">3109 14 21</a>	24	22	28.5	35.5	0.041	16	R3/8	<a href="#">3109 16 17</a>	27	27	53	39	0.106	R1/2	<a href="#">3109 16 21</a>	27	27
4	R1/8	<a href="#">3109 04 10</a>	10	8.5	13.5	14	0.006																																																																																																																																																																					
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8	R1/2	<a href="#">3109 06 21</a>	21	10.5	16.5	16	0.034																																																																																																																																																																					
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	R1/2	<a href="#">3109 10 21</a>	21	16	22	26.5	0.031																																																																																																																																																																					
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Pre-coated thread  
The body swivels for positioning purposes.

## 3109 Stud Elbow, Male NPT Thread

	Technical polymer, nickel-plated brass, NBR		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>																																																																																		
			<table border="1"> <tr> <td rowspan="2">4</td> <td>NPT1/8</td> <td><a href="#">3109 04 11</a></td> <td>11</td> <td>8.4</td> <td>13.5</td> <td>14</td> <td>0.007</td> </tr> <tr> <td>NPT1/4</td> <td><a href="#">3109 04 14</a></td> <td>14</td> <td>8.4</td> <td>14</td> <td>14</td> <td>0.016</td> </tr> <tr> <td rowspan="2">6</td> <td>NPT1/8</td> <td><a href="#">3109 06 11</a></td> <td>11</td> <td>10.5</td> <td>15.5</td> <td>16</td> <td>0.007</td> </tr> <tr> <td>NPT1/4</td> <td><a href="#">3109 06 14</a></td> <td>14</td> <td>10.5</td> <td>16</td> <td>16</td> <td>0.017</td> </tr> <tr> <td rowspan="2">8</td> <td>NPT1/8</td> <td><a href="#">3109 08 11</a></td> <td>11</td> <td>13.5</td> <td>19</td> <td>23.1</td> <td>0.009</td> </tr> <tr> <td>NPT1/4</td> <td><a href="#">3109 08 14</a></td> <td>14</td> <td>13.5</td> <td>18</td> <td>23.1</td> <td>0.015</td> </tr> <tr> <td rowspan="3">10</td> <td>NPT1/4</td> <td><a href="#">3109 10 14</a></td> <td>15</td> <td>16</td> <td>23</td> <td>26.5</td> <td>0.017</td> </tr> <tr> <td>NPT3/8</td> <td><a href="#">3109 10 18</a></td> <td>18</td> <td>16</td> <td>22</td> <td>26.5</td> <td>0.024</td> </tr> <tr> <td>NPT1/2</td> <td><a href="#">3109 10 22</a></td> <td>22</td> <td>16</td> <td>23</td> <td>26.5</td> <td>0.045</td> </tr> <tr> <td rowspan="2">12</td> <td>NPT3/8</td> <td><a href="#">3109 12 18</a></td> <td>18</td> <td>19</td> <td>25</td> <td>31</td> <td>0.050</td> </tr> <tr> <td>NPT1/2</td> <td><a href="#">3109 12 22</a></td> <td>22</td> <td>19</td> <td>26</td> <td>31</td> <td>0.092</td> </tr> </table>											4	NPT1/8	<a href="#">3109 04 11</a>	11	8.4	13.5	14	0.007	NPT1/4	<a href="#">3109 04 14</a>	14	8.4	14	14	0.016	6	NPT1/8	<a href="#">3109 06 11</a>	11	10.5	15.5	16	0.007	NPT1/4	<a href="#">3109 06 14</a>	14	10.5	16	16	0.017	8	NPT1/8	<a href="#">3109 08 11</a>	11	13.5	19	23.1	0.009	NPT1/4	<a href="#">3109 08 14</a>	14	13.5	18	23.1	0.015	10	NPT1/4	<a href="#">3109 10 14</a>	15	16	23	26.5	0.017	NPT3/8	<a href="#">3109 10 18</a>	18	16	22	26.5	0.024	NPT1/2	<a href="#">3109 10 22</a>	22	16	23	26.5	0.045	12	NPT3/8	<a href="#">3109 12 18</a>	18	19	25	31	0.050	NPT1/2	<a href="#">3109 12 22</a>	22	19
4	NPT1/8	<a href="#">3109 04 11</a>	11	8.4	13.5	14	0.007																																																																																					
	NPT1/4	<a href="#">3109 04 14</a>	14	8.4	14	14	0.016																																																																																					
6	NPT1/8	<a href="#">3109 06 11</a>	11	10.5	15.5	16	0.007																																																																																					
	NPT1/4	<a href="#">3109 06 14</a>	14	10.5	16	16	0.017																																																																																					
8	NPT1/8	<a href="#">3109 08 11</a>	11	13.5	19	23.1	0.009																																																																																					
	NPT1/4	<a href="#">3109 08 14</a>	14	13.5	18	23.1	0.015																																																																																					
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12	NPT3/8	<a href="#">3109 12 18</a>	18	19	25	31	0.050																																																																																					
	NPT1/2	<a href="#">3109 12 22</a>	22	19	26	31	0.092																																																																																					

Pre-coated thread  
The body swivels for positioning purposes.

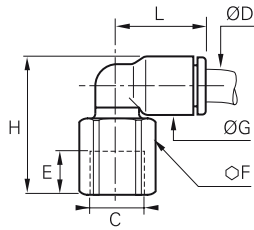


# Stud Fittings

## 3192 Stud Elbow, Female BSPP Thread



Technical polymer, nickel-plated brass, NBR



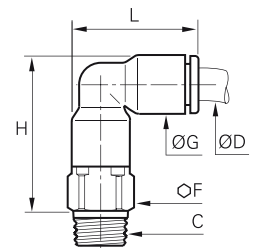
ØD	C		E	F	G	H	L	kg
4	G1/8	<a href="#">3192 04 10</a>	8.5	13	8.5	23	14	0.010
	G1/4	<a href="#">3192 04 13</a>	11.5	16	8.5	27	14	0.017
6	G1/8	<a href="#">3192 06 10</a>	8.5	13	10.5	25	16	0.010
	G1/4	<a href="#">3192 06 13</a>	11.5	16	10.5	29	16	0.017
8	G1/8	<a href="#">3192 08 10</a>	8.5	13	13.5	28	23	0.012
	G1/4	<a href="#">3192 08 13</a>	11.5	16	13.5	32	23	0.020
10	G3/8	<a href="#">3192 08 17</a>	12	19	13.5	33	23	0.026
	G1/4	<a href="#">3192 10 13</a>	11	16	16	34.5	26.5	0.020
	G3/8	<a href="#">3192 10 17</a>	12	19	16	35	26.5	0.025
12	G1/2	<a href="#">3192 10 21</a>	16	24	16	41	26.5	0.049
	G1/4	<a href="#">3192 12 13</a>	11	16	19	38	30.5	0.023
	G3/8	<a href="#">3192 12 17</a>	12	19	19	38.5	30.5	0.027
	G1/2	<a href="#">3192 12 21</a>	16	24	19	43.5	30.5	0.050

The body swivels for positioning purposes.

## 3129 Extended Stud Elbow, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H	L	kg
4	R1/8	<a href="#">3129 04 10</a>	10	8.5	23	19	0.008
	R1/4	<a href="#">3129 04 13</a>	14	8.5	23.5	19	0.018
6	R1/8	<a href="#">3129 06 10</a>	10	10.5	27	22.5	0.010
	R1/4	<a href="#">3129 06 13</a>	14	10.5	27.5	22.5	0.020
8	R1/8	<a href="#">3129 08 10</a>	13	13.5	34.5	29.5	0.018
	R1/4	<a href="#">3129 08 13</a>	14	13.5	32.5	29.5	0.022
10	R3/8	<a href="#">3129 08 17</a>	17	13.5	33	29.5	0.032
	R1/4	<a href="#">3129 10 13</a>	15	16	39.5	34.5	0.031
	R3/8	<a href="#">3129 10 17</a>	17	16	39.5	34.5	0.041
12	R1/2	<a href="#">3129 10 21</a>	21	16	39.5	34.5	0.060
	R1/4	<a href="#">3129 12 13</a>	19	19	45.5	40.5	0.035
	R3/8	<a href="#">3129 12 17</a>	19	19	45.5	40.5	0.051
14	R1/2	<a href="#">3129 12 21</a>	21	19	45.5	40.5	0.065
	R3/8	<a href="#">3129 14 17</a>	21	22	51.5	46.5	0.064
	R1/2	<a href="#">3129 14 21</a>	21	22	51.5	46.5	0.070

Pre-coated thread

The body swivels for positioning purposes.

Parker Legris offers the solution to enable many types of configuration options.



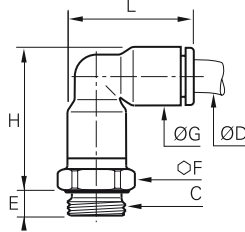


# Stud Fittings

## 3169 Extended Stud Elbow, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



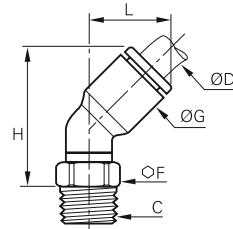
ØD	C		E	F	G	H	L	kg
4	M5x0.8	<a href="#">3169 04 19</a>	3.5	8	8.5	23	19	0.005
	M7x1	<a href="#">3169 04 55</a>	4.5	10	8.5	22.5	19	0.008
	G1/8	<a href="#">3169 04 10</a>	5	13	8.5	22.5	19	0.009
	G1/4	<a href="#">3169 04 13</a>	5.5	16	8.5	22.5	19	0.014
6	M5x0.8	<a href="#">3169 06 19</a>	3.5	10	10.5	27.5	23	0.008
	M7x1	<a href="#">3169 06 55</a>	4.5	10	10.5	26	23	0.012
	G1/8	<a href="#">3169 06 10</a>	5	13	10.5	27	23	0.011
	G1/4	<a href="#">3169 06 13</a>	5.5	16	10.5	27	23	0.016
8	G1/8	<a href="#">3169 08 10</a>	5	13	13.5	36	29.5	0.018
	G1/4	<a href="#">3169 08 13</a>	5.5	16	13.5	33	29.5	0.020
	G3/8	<a href="#">3169 08 17</a>	5.5	20	13.5	33	29.5	0.028
10	G1/4	<a href="#">3169 10 13</a>	5.5	16	16	40.5	34.5	0.029
	G3/8	<a href="#">3169 10 17</a>	5.5	20	16	40.5	34.5	0.037
12	G1/2	<a href="#">3169 12 21</a>	7.5	24	16	40.5	34.5	0.042
	G1/4	<a href="#">3169 12 13</a>	5.5	19	19	44.5	40.5	0.049
14	G3/8	<a href="#">3169 14 17</a>	5.5	20	19	42	40.5	0.040
	G1/2	<a href="#">3169 12 21</a>	7.5	24	19	42	40.5	0.049
	G3/8	<a href="#">3169 14 17</a>	5.5	22	22	51	46.5	0.059
16	G1/2	<a href="#">3169 14 21</a>	7.5	24	22	48.5	46.5	0.063
	G3/8	<a href="#">3169 16 17</a>	7.5	27	27	82.5	52	0.220
	G1/2	<a href="#">3169 16 21</a>	9	27	27	82.5	52	0.206

The body swivels for positioning purposes.

## 3113 45° Elbow, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



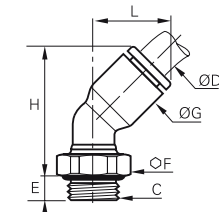
ØD	C		F	G	H	L	kg
4	R1/8	<a href="#">3113 04 10</a>	10	9	21	13	0.006
6	R1/8	<a href="#">3113 06 10</a>	10	11	24.5	14.5	0.006
	R1/4	<a href="#">3113 06 13</a>	14	11	25	14.5	0.015
8	R1/8	<a href="#">3113 08 10</a>	10	13.5	30	19.5	0.008
	R1/4	<a href="#">3113 08 13</a>	14	13.5	28.5	19.5	0.015
	R3/8	<a href="#">3113 08 17</a>	17	13.5	28.5	19.5	0.020
10	R1/4	<a href="#">3113 10 13</a>	15	16	33.5	23	0.014
	R3/8	<a href="#">3113 10 17</a>	17	16	33.5	23	0.019
	R1/2	<a href="#">3113 10 21</a>	21	16	34	23	0.100
12	R1/4	<a href="#">3113 12 13</a>	15	19	39	26	0.016
	R3/8	<a href="#">3113 12 17</a>	17	19	39	26	0.022
	R1/2	<a href="#">3113 12 21</a>	21	19	39	26	0.040

Pre-coated thread  
The body swivels for positioning purposes.  
This model prevents distortion of the tube.

## 3133 45° Elbow, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	G	H	L	kg
4	M5x0.8	<a href="#">3133 04 19</a>	3.5	8	9	23	13	0.003
	G1/8	<a href="#">3133 04 10</a>	4.5	13	9	20.5	13	0.006
6	M5x0.8	<a href="#">3133 06 19</a>	3.5	8	11	28	14.5	0.003
	G1/8	<a href="#">3133 06 10</a>	4.5	13	11	24	14.5	0.006
	G1/4	<a href="#">3133 06 13</a>	5.5	16	11	24	14.5	0.011
8	G1/8	<a href="#">3133 08 10</a>	4.5	13	13.5	31	19.5	0.011
	G1/4	<a href="#">3133 08 13</a>	5.5	16	13.5	29	19.5	0.012
	G3/8	<a href="#">3133 08 17</a>	5.5	20	13.5	29	19.5	0.020
10	G1/4	<a href="#">3133 10 13</a>	5.5	16	16	35	23	0.014
	G3/8	<a href="#">3133 10 17</a>	5.5	20	16	33.5	23	0.017
	G1/2	<a href="#">3133 10 21</a>	7	24	16	33.5	23	0.026
12	G1/4	<a href="#">3133 12 13</a>	5.5	16	19	40.5	26	0.016
	G3/8	<a href="#">3133 12 17</a>	5.5	20	19	39	26	0.019
	G1/2	<a href="#">3133 12 21</a>	7	24	19	39	26	0.028

The body swivels for positioning purposes.  
This model prevents distortion of the tube.

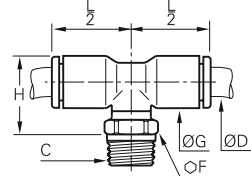
# Stud Fittings

## 3108

### Stud Branch Tee, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H	L/2	kg
4	R1/8	<a href="#">3108 04 10</a>	10	8.5	15.5	14	0.006
	R1/4	<a href="#">3108 04 13</a>	14	8.5	16	14	0.015
6	R1/8	<a href="#">3108 06 10</a>	10	10.5	17.5	16	0.007
	R1/4	<a href="#">3108 06 13</a>	14	10.5	18	16	0.016
8	R1/8	<a href="#">3108 08 10</a>	10	13.5	22	23	0.009
	R1/4	<a href="#">3108 08 13</a>	14	13.5	21	23	0.016
	R3/8	<a href="#">3108 08 17</a>	17	13.5	21	23	0.020
10	R1/4	<a href="#">3108 10 13</a>	15	16	24	26.5	0.017
	R3/8	<a href="#">3108 10 17</a>	17	16	24	26.5	0.022
	R1/2	<a href="#">3108 10 21</a>	21	16	24	26.5	0.033
12	R1/4	<a href="#">3108 12 13</a>	15	19	27	31	0.021
	R3/8	<a href="#">3108 12 17</a>	17	19	27	31	0.026
	R1/2	<a href="#">3108 12 21</a>	21	19	27	31	0.037
14	R3/8	<a href="#">3108 14 17</a>	20	22	30.5	35	0.038
	R1/2	<a href="#">3108 14 21</a>	24	22	28.5	35	0.048
	R3/8	<a href="#">3108 16 17</a>	27	27	53	38.5	0.128
16	R1/2	<a href="#">3108 16 21</a>	27	27	53	38.5	0.124

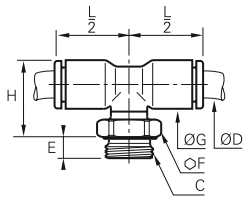
Pre-coated thread  
The body swivels for positioning purposes.

## 3198

### Stud Branch Tee, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	G	H	L/2	kg
4	M5x0.8	<a href="#">3198 04 19</a>	3.5	8	8.5	17.5	14	0.003
	G1/8	<a href="#">3198 04 10</a>	5	13	8.5	15	14	0.006
	G1/4	<a href="#">3198 04 13</a>	5.5	16	8.5	15	14	0.011
6	M5x0.8	<a href="#">3198 06 19</a>	3.5	8	10.5	19.5	16	0.004
	G1/8	<a href="#">3198 06 10</a>	5	13	10.5	17	16	0.007
	G1/4	<a href="#">3198 06 13</a>	5.5	16	10.5	17	16	0.012
8	G1/8	<a href="#">3198 08 10</a>	4.5	13	13.5	23.5	23	0.011
	G1/4	<a href="#">3198 08 13</a>	5.5	16	13.5	21.5	23	0.014
	G3/8	<a href="#">3198 08 17</a>	5.5	20	13.5	21.5	23	0.019
10	G1/4	<a href="#">3198 10 13</a>	5.5	16	16	26	26.5	0.017
	G3/8	<a href="#">3198 10 17</a>	5.5	20	16	24	26.5	0.020
	G1/2	<a href="#">3198 10 21</a>	7.5	24	16	24	26.5	0.029
12	G1/4	<a href="#">3198 12 13</a>	5.5	16	19	29	31	0.021
	G3/8	<a href="#">3198 12 17</a>	5.5	20	19	27	31	0.024
	G1/2	<a href="#">3198 12 21</a>	7	24	19	27	31	0.033
14	G3/8	<a href="#">3198 14 17</a>	5.5	20	22	32.5	35.5	0.036
	G1/2	<a href="#">3198 14 21</a>	7	24	22	27	35.5	0.036
	G3/8	<a href="#">3198 16 17</a>	7.5	27	27	54.5	38.5	0.121
16	G1/2	<a href="#">3198 16 21</a>	9	27	27	54.5	38.5	0.117

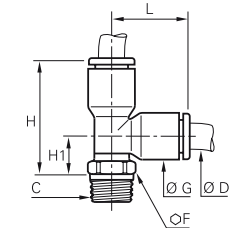
The body swivels for positioning purposes.

## 3103

### Stud Run Tee, BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H	H1	L	kg
4	R1/8	<a href="#">3103 04 10</a>	10	8.5	23.5	9	14.5	0.006
	R1/4	<a href="#">3103 04 13</a>	14	8.5	24	9.5	14.5	0.015
6	R1/8	<a href="#">3103 06 10</a>	10	10.5	27.5	10	17.5	0.007
	R1/4	<a href="#">3103 06 13</a>	14	10.5	28	10.5	17.5	0.016
8	R1/8	<a href="#">3103 08 10</a>	10	13.5	35	12	23	0.009
	R1/4	<a href="#">3103 08 13</a>	14	13.5	34	11	23	0.015
	R3/8	<a href="#">3103 08 17</a>	17	13.5	34	11	23	0.020
10	R1/4	<a href="#">3103 10 13</a>	15	16	40.5	14	26.5	0.017
	R3/8	<a href="#">3103 10 17</a>	17	16	40.5	14	26.5	0.022
	R1/2	<a href="#">3103 10 21</a>	21	16	40.5	14	26.5	0.033
12	R1/4	<a href="#">3103 12 13</a>	15	19	46.5	15.5	31	0.028
	R3/8	<a href="#">3103 12 17</a>	17	19	46.5	15.5	31	0.026
	R1/2	<a href="#">3103 12 21</a>	21	19	46.5	15.5	31	0.037
14	R3/8	<a href="#">3103 14 17</a>	20	22	55	19.5	35.5	0.037
	R1/2	<a href="#">3103 14 21</a>	24	22	52.5	17.5	35.5	0.048
	R3/8	<a href="#">3103 16 17</a>	27	27	78	27	38.5	0.126
16	R1/2	<a href="#">3103 16 21</a>	27	27	78	27	38.5	0.124

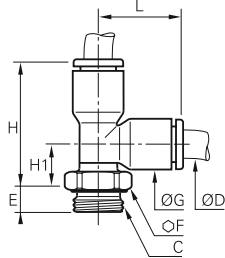
Pre-coated thread  
The body swivels for positioning purposes.

# Stud Fittings

## 3193 Stud Run Tee, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



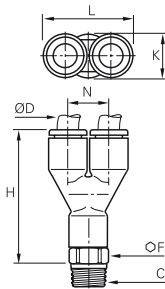
ØD	C		E	F	G	H	H1	L	kg
4	M5x0.8	<a href="#">3193 04 19</a>	3.5	8	8.5	26	11.5	14.5	0.003
	G1/8	<a href="#">3193 04 10</a>	5	13	8.5	23	8.5	14.5	0.006
	G1/4	<a href="#">3193 04 13</a>	5.5	16	8.5	23	8.5	14.5	0.011
6	M5x0.8	<a href="#">3193 06 19</a>	3.5	8	10.5	29.5	12.5	17.5	0.004
	G1/8	<a href="#">3193 06 10</a>	5	13	10.5	27	10	17.5	0.007
	G1/4	<a href="#">3193 06 13</a>	5.5	16	10.5	27	10	17.5	0.012
8	G1/8	<a href="#">3193 08 10</a>	4.5	13	13.5	36.5	14	23	0.011
	G1/4	<a href="#">3193 08 13</a>	5.5	16	13.5	34.5	12	23	0.014
	G3/8	<a href="#">3193 08 17</a>	5.5	20	13.5	34.5	12	23	0.019
10	G1/4	<a href="#">3193 10 13</a>	5.5	16	16	42	15.5	26.5	0.017
	G3/8	<a href="#">3193 10 17</a>	5.5	20	16	40.5	14	26.5	0.020
	G1/2	<a href="#">3193 10 21</a>	7.5	24	16	40.5	14	26.5	0.029
12	G1/4	<a href="#">3193 12 13</a>	5.5	16	19	48	17	31	0.021
	G3/8	<a href="#">3193 12 17</a>	5.5	20	19	46.5	15.5	31	0.024
	G1/2	<a href="#">3193 12 21</a>	7	24	19	46.5	15.5	31	0.038
14	G3/8	<a href="#">3193 14 17</a>	5.5	20	22	56.5	21.5	35.5	0.107
	G1/2	<a href="#">3193 14 21</a>	7	24	22	51	16	35.5	0.120
	G3/8	<a href="#">3193 16 17</a>	7.5	27	27	79.5	41	38.5	0.121
16	G1/2	<a href="#">3193 16 21</a>	9	27	27	79.5	41	38.5	0.117

The body swivels for positioning purposes.

## 3148 Y Piece, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



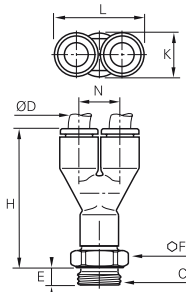
ØD	C		F	H	K	L	N	kg
4	R1/8	<a href="#">3148 04 10</a>	10	32.5	8.5	17.5	9	0.010
	R1/4	<a href="#">3148 04 13</a>	14	33	8.5	17.5	9	0.019
6	R1/8	<a href="#">3148 06 10</a>	10	39.5	10.5	21.5	11	0.011
	R1/4	<a href="#">3148 06 13</a>	14	40	10.5	21.5	11	0.021
8	R1/8	<a href="#">3148 08 10</a>	13	56.5	13.5	28	14.5	0.020
	R1/4	<a href="#">3148 08 13</a>	14	55.5	13.5	28	14.5	0.025
	R3/8	<a href="#">3148 08 17</a>	16	48.5	13.5	28	14.5	0.034
10	R1/4	<a href="#">3148 10 13</a>	14	60	19	39	20	0.033
	R3/8	<a href="#">3148 10 17</a>	16	60.5	19	39	20	0.042
	R1/2	<a href="#">3148 10 21</a>	24	61	19	39	20	0.062
12	R3/8	<a href="#">3148 12 17</a>	19	66	19	39	20	0.054
	R1/2	<a href="#">3148 12 21</a>	21	66	19	39	20	0.059

Pre-coated thread  
The body swivels for positioning purposes.

## 3158 Y Piece, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR





ØD	C		E	F	H	K	L	N	kg
4	M5x0.8	<a href="#">3158 04 19</a>	3.5	8	32.5	8.5	17.5	9	0.006
	G1/8	<a href="#">3158 04 10</a>	5	13	32	8.5	17.5	9	0.009
	G1/4	<a href="#">3158 04 13</a>	5.5	16	32.5	8.5	17.5	9	0.014
6	M5x0.8	<a href="#">3158 06 19</a>	3.5	10	39.5	10.5	21.5	11	0.009
	G1/8	<a href="#">3158 06 10</a>	5	13	39	10.5	21.5	11	0.012
	G1/4	<a href="#">3158 06 13</a>	5.5	16	39.5	10.5	21.5	11	0.017
8	G1/8	<a href="#">3158 08 10</a>	5	13	49	13.5	28	14.5	0.020
	G1/4	<a href="#">3158 08 13</a>	5.5	16	49.5	13.5	28	14.5	0.023
	G3/8	<a href="#">3158 08 17</a>	6	19	48	13.5	28	14.5	0.030
10	G1/4	<a href="#">3158 10 13</a>	5.5	16	58	16	33	17	0.031
	G3/8	<a href="#">3158 10 17</a>	6	20	57.5	16	33	17	0.039
	G1/2	<a href="#">3158 10 21</a>	7	24	58	16	33	17	0.053
12	G3/8	<a href="#">3158 12 17</a>	6	20	62	19	39	20	0.044
	G1/2	<a href="#">3158 12 21</a>	7	24	63	19	39	20	0.049

The body swivels for positioning purposes.



# Stud Fittings

## 3112 Double Y Piece, Male BSPT Thread

	Technical polymer, nickel-plated brass, NBR			F	H	K	K1	N	N1	ØT	kg									
	ØD	C																		
	4	R1/8										<a href="#">3112 04 10</a>	13	41.5	25.5	21	10	8.5	3.7	0.023
		R1/4										<a href="#">3112 04 13</a>	14	43.5	25.5	21	10	8.5	3.7	0.027
	6	R1/8	<a href="#">3112 06 10</a>	19	54.5	31.5	26.5	12	10	3.7	0.041									
		R1/4	<a href="#">3112 06 13</a>	19	57.5	31.5	26.5	12	10	3.7	0.047									



Pre-coated thread  
The body swivels for positioning purposes.

## 3132 Double Y, Male BSPP Thread


	Technical polymer, nickel-plated brass, NBR			E	F	H	K	K1	N	N1	ØT	kg										
	ØD	C																				
	4	G1/8											<a href="#">3132 04 10</a>	5	13	41	25.5	21	10	8.5	3.7	0.025
		G1/4											<a href="#">3132 04 13</a>	5.5	16	40	25.5	21	10	8.5	3.7	0.025
	6	G1/8	<a href="#">3132 06 10</a>	5	19	53.5	31.5	26.5	12	10	3.7	0.040										
		G1/4	<a href="#">3132 06 13</a>	5.5	19	52.5	31.5	26.5	12	10	3.7	0.045										

The body swivels for positioning purposes.



## 3100 Carstick® Cartridge

	Brass, NBR			G	G1	H	L	kg					
	ØD												
	4	<a href="#">3100 04 00</a>							8	11	10	554	0.001
	6	<a href="#">3100 06 00</a>							10	14.5	11.5	629	0.002
	8	<a href="#">3100 08 00</a>							13	15	15	794	0.002
	10	<a href="#">3100 10 00</a>							15.5	19.5	17	930	0.005
12	<a href="#">3100 12 00</a>	19.5	21	19.5	1038	0.010							


50 cartridges per Carstick®  
Cavity dimensions are available in chapter 2.



## 3100 Carstick® Cartridge

	Nickel-plated brass, NBR			G	G1	H	L	kg	Inch					
	ØD													
	1/8	<a href="#">3100 53 00 99</a>								7	10	9	508	0.002
	1/4	<a href="#">3100 56 00 99</a>								10.5	14.5	12	600	0.003
3/8	<a href="#">3100 60 00 99</a>	15.5	19	16.5	930	0.006								


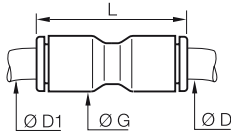

50 cartridges per Carstick®  
Cavity dimensions are available in chapter 2.



Other products are available upon request; please do not hesitate to consult us.


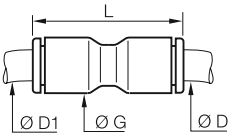

# Tube-to-Tube Fittings

## 3106 Equal and Unequal Tube-to-Tube Connector

	Technical polymer, NBR 	<b>ØD</b>	<b>ØD1</b>		<b>G</b>	<b>L</b>	<b>kg</b>
		3	3	<a href="#">3106 03 00</a>	8.5	25	0.002
			4	<a href="#">3106 03 04</a>	8.5	25	0.002
			1/4	<a href="#">3106 04 56</a>	11	29.5	0.010
		4	4	<a href="#">3106 04 00</a>	8.5	25	0.001
			6	<a href="#">3106 04 06</a>	11	28	0.002
			8	<a href="#">3106 04 08</a>	13.5	38	0.005
			1/4	<a href="#">3106 06 56</a>	13.5	36	0.009
		6	6	<a href="#">3106 06 00</a>	10.5	28.5	0.002
			8	<a href="#">3106 06 08</a>	13.5	38	0.005
			10	<a href="#">3106 06 10</a>	16	42	0.007
		8	8	<a href="#">3106 08 00</a>	13.5	38	0.004
			10	<a href="#">3106 08 10</a>	16	42	0.008
			12	<a href="#">3106 08 12</a>	19	50.5	0.026
		10	10	<a href="#">3106 10 00</a>	16	42	0.006
			12	<a href="#">3106 10 12</a>	19	50.5	0.022
			1/2	<a href="#">3106 12 62</a>	22	56.5	0.024
		12	12	<a href="#">3106 12 00</a>	19	50.5	0.009
			14	<a href="#">3106 12 14</a>	22	56	0.026
			16	<a href="#">3106 12 16</a>	27	61	0.066
14	14	<a href="#">3106 14 00</a>	22	56	0.014		
16	16	<a href="#">3106 16 00</a>	27	60.5	0.041		


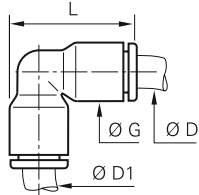

## 3106 Equal and Unequal Tube-to-Tube Connector

Inch

	Technical polymer, NBR 	<b>ØD</b>	<b>ØD1</b>		<b>G</b>	<b>L</b>	<b>kg</b>
		1/4	1/4	<a href="#">3106 56 00</a>	10.9	29.5	0.002
			3/8	<a href="#">3106 60 00</a>	16	42	0.006
		3/8	10	<a href="#">3106 60 10</a>	12	50.5	0.029
			1/4	<a href="#">3106 60 56</a>	16	41	0.016
		1/2	1/2	<a href="#">3106 62 00</a>	22	55	0.015


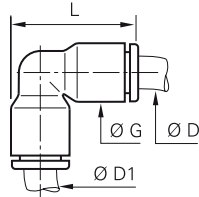

5/32" (4 mm) and 5/16" (8 mm) also available

## 3102 Equal and Unequal Elbow

	Technical polymer, NBR 	<b>ØD</b>	<b>ØD1</b>		<b>G</b>	<b>L</b>	<b>kg</b>
		4	4	<a href="#">3102 04 00</a>	8.5	19	0.001
			6	<a href="#">3102 04 06</a>	10.5	22.5	0.004
		6	6	<a href="#">3102 06 00</a>	10.5	22.5	0.002
			8	<a href="#">3102 06 08</a>	13.5	29.5	0.009
		8	8	<a href="#">3102 08 00</a>	13.5	29.5	0.004
			10	<a href="#">3102 08 10</a>	16	34.5	0.031
			10	<a href="#">3102 10 00</a>	16	34.5	0.006
			12	<a href="#">3102 10 12</a>	19	40.5	0.022
		12	12	<a href="#">3102 12 00</a>	19	40.5	0.010
			14	<a href="#">3102 14 00</a>	22	46.5	0.015
			16	<a href="#">3102 16 00</a>	27	52	0.043

## 3102 Equal Elbow

Inch

	Technical polymer, NBR 	<b>ØD</b>	<b>ØD1</b>		<b>G</b>	<b>L</b>	<b>kg</b>
		1/4	1/4	<a href="#">3102 56 00</a>	11	23.5	0.002
		3/8	3/8	<a href="#">3102 60 00</a>	16	34	0.006
		1/2	1/2	<a href="#">3102 62 00</a>	22	35	0.018

5/32" (4 mm) and 5/16" (8 mm) also available

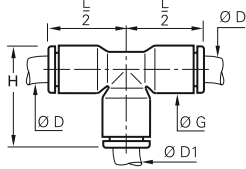
# Tube-to-Tube Fittings

**3104**

Equal and Unequal Tee



Technical polymer, NBR



ØD	ØD1		G	H	L/2	kg
3	3	<a href="#">3104 03 00</a>	8.5	19	14.5	0.004
4	4	<a href="#">3104 04 00</a>	8.5	19	14.5	0.002
	6	<a href="#">3104 04 06</a>	10.5	22.5	17.5	0.007
6	4	<a href="#">3104 06 04</a>	10.5	22.5	17.5	0.005
	6	<a href="#">3104 06 00</a>	10.5	22.5	17.5	0.003
8	8	<a href="#">3104 06 08</a>	13.5	29.5	23	0.015
	4	<a href="#">3104 08 04</a>	13.5	29	22.5	0.114
	6	<a href="#">3104 08 06</a>	13.5	29.5	23	0.010
	8	<a href="#">3104 08 00</a>	13.5	29.5	23	0.006
10	10	<a href="#">3104 08 10</a>	16	34.5	26.5	0.021
	4	<a href="#">3104 10 04</a>	16	39	31	0.027
	8	<a href="#">3104 10 08</a>	16	34.5	26.5	0.014
	10	<a href="#">3104 10 00</a>	16	34.5	26.5	0.009
12	12	<a href="#">3104 10 12</a>	19	40.5	31	0.036
	4	<a href="#">3104 12 04</a>	19	39	31	0.034
	10	<a href="#">3104 12 10</a>	19	40.5	31	0.024
14	12	<a href="#">3104 12 00</a>	19	40.5	31	0.014
	8	<a href="#">3104 14 08</a>	22	46	35.5	0.054
16	14	<a href="#">3104 14 00</a>	22	46	35.5	0.023
	12	<a href="#">3104 16 12</a>	27	52.5	39	0.088
16	16	<a href="#">3104 16 00</a>	27	52	39	0.063

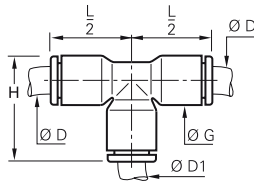
**3104**

Equal and Unequal Tee

Inch



Technical polymer, NBR



ØD	ØD1		G	H	L/2	kg
5/32	1/4	<a href="#">3104 04 56</a>	11	23.5	18	0.014
1/8	1/8	<a href="#">3104 53 00</a>	8.4	19	14.5	0.003
	1/4	<a href="#">3104 53 56</a>	11	23.5	18	0.011
3/16	3/16	<a href="#">3104 55 00</a>	10.9	27.2	21.6	0.015
1/4	5/32	<a href="#">3104 56 04</a>	11	23.5	18.5	0.014
	1/4	<a href="#">3104 56 00</a>	11	23	24	0.003
	1/8	<a href="#">3104 56 53</a>	11	23.5	18.5	0.007
	3/8	<a href="#">3104 56 60</a>	16	33.5	24.5	0.017
3/8	1/4	<a href="#">3104 60 56</a>	16	32.5	25.5	0.019
	1/2	<a href="#">3104 60 62</a>	22	46	35	0.070
	3/8	<a href="#">3104 60 00</a>	16	34	26	0.009
1/2	1/2	<a href="#">3104 62 00</a>	22	46	35	0.026
	1/4	<a href="#">3104 62 56</a>	22.1	45.2	35.3	0.021
	3/8	<a href="#">3104 62 60</a>	22	46	35	0.060

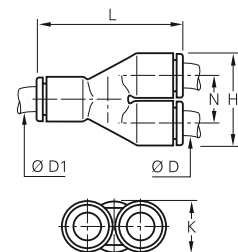
5/32" (4 mm) and 5/16" (8 mm) also available

**3140**

Equal and Unequal Single Y Piece



Technical polymer, NBR



ØD	ØD1		H	K	L	N	kg
4	4	<a href="#">3140 04 00</a>	17.5	8.5	28.5	9	0.002
	6	<a href="#">3140 04 06</a>	17.5	10.5	33	9	0.003
6	6	<a href="#">3140 06 00</a>	21.5	10.5	35	11	0.003
	8	<a href="#">3140 06 08</a>	22.5	13.5	41	11.5	0.005
8	8	<a href="#">3140 08 00</a>	28	13.5	45	14.5	0.007
	10	<a href="#">3140 08 10</a>	28	16	47	14.5	0.011
10	10	<a href="#">3140 10 00</a>	33	16	53	17	0.010
	12	<a href="#">3140 10 12</a>	33	19	57	17	0.018
12	12	<a href="#">3140 12 00</a>	39	19	57	17	0.028

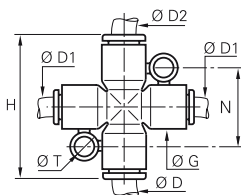
# Tube-to-Tube Fittings


## 3107

### Equal and Unequal Cross



Technical polymer, NBR



ØD	ØD1	ØD2		G	H	N	ØT	kg
4	4	4	3107 04 00	11	36	20	4.2	0.013
6	4	6	3107 04 06	11	36	20	4.2	0.010
4	4	6	3107 06 04	11	36	20	4.2	0.011
6	6	6	3107 06 00	11	36	20	4.2	0.005
8	6	8	3107 06 08	11	46	22.5	4.2	0.018
6	6	8	3107 08 06	13.5	46	22.5	4.2	0.023
8	8	8	3107 08 00	13.5	46	22.5	4.2	0.020


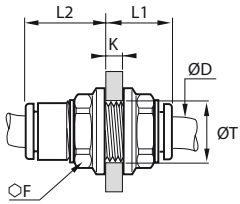

Boxes protect the contents and are designed to meet your requirements:

- part numbers and corresponding product pictures allow for immediate visual identification
- bar codes
- easy storage
- tamper-proof system of opening/closing
- recyclable material


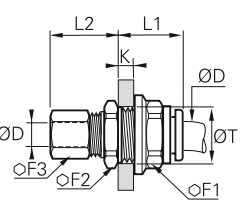



# Bulkhead Connector Fittings

## 3116 Equal Bulkhead Connector


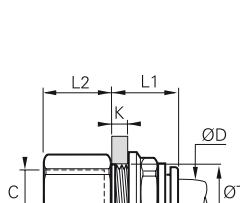

	Technical polymer, NBR		<b>ØD</b>		<b>F</b>	<b>K<sub>max</sub></b>	<b>L1</b>	<b>L2</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																						
	<table border="1"> <tr><td>4</td><td><a href="#">3116 04 00</a></td><td>13</td><td>5.5</td><td>15</td><td>10</td><td>10.5</td><td>0.003</td></tr> <tr><td>6</td><td><a href="#">3116 06 00</a></td><td>15</td><td>8.5</td><td>18</td><td>10.5</td><td>12.5</td><td>0.004</td></tr> <tr><td>8</td><td><a href="#">3116 08 00</a></td><td>18</td><td>14.5</td><td>25</td><td>13.5</td><td>15.5</td><td>0.007</td></tr> <tr><td>10</td><td><a href="#">3116 10 00</a></td><td>22</td><td>14.5</td><td>27.5</td><td>15.5</td><td>18.5</td><td>0.015</td></tr> <tr><td>12</td><td><a href="#">3116 12 00</a></td><td>26</td><td>18.5</td><td>33</td><td>18</td><td>22.5</td><td>0.019</td></tr> <tr><td>14</td><td><a href="#">3116 14 00</a></td><td>29</td><td>20.5</td><td>37.5</td><td>20.5</td><td>25.5</td><td>0.028</td></tr> </table>		4	<a href="#">3116 04 00</a>	13	5.5	15	10	10.5	0.003	6	<a href="#">3116 06 00</a>	15	8.5	18	10.5	12.5	0.004	8	<a href="#">3116 08 00</a>	18	14.5	25	13.5	15.5	0.007	10	<a href="#">3116 10 00</a>	22	14.5	27.5	15.5	18.5	0.015	12	<a href="#">3116 12 00</a>	26	18.5	33	18	22.5	0.019	14	<a href="#">3116 14 00</a>	29	20.5	37.5	20.5
4	<a href="#">3116 04 00</a>	13	5.5	15	10	10.5	0.003																																									
6	<a href="#">3116 06 00</a>	15	8.5	18	10.5	12.5	0.004																																									
8	<a href="#">3116 08 00</a>	18	14.5	25	13.5	15.5	0.007																																									
10	<a href="#">3116 10 00</a>	22	14.5	27.5	15.5	18.5	0.015																																									
12	<a href="#">3116 12 00</a>	26	18.5	33	18	22.5	0.019																																									
14	<a href="#">3116 14 00</a>	29	20.5	37.5	20.5	25.5	0.028																																									

## 3146 Equal Mixed Bulkhead Connector


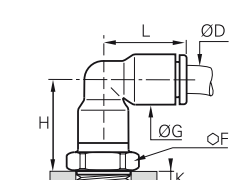

	Nickel-plated brass, NBR		<b>ØD</b>		<b>F1</b>	<b>F2</b>	<b>F3</b>	<b>K<sub>max</sub></b>	<b>L1</b>	<b>L2</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																																
	<table border="1"> <tr><td>4</td><td><a href="#">3146 04 00</a></td><td>13</td><td>13</td><td>10</td><td>7</td><td>17.5</td><td>17.5</td><td>10.5</td><td>0.018</td></tr> <tr><td>6</td><td><a href="#">3146 06 00</a></td><td>15</td><td>17</td><td>13</td><td>8</td><td>19</td><td>18</td><td>12.5</td><td>0.029</td></tr> <tr><td>8</td><td><a href="#">3146 08 00</a></td><td>18</td><td>19</td><td>14</td><td>8</td><td>20.5</td><td>20.5</td><td>15.5</td><td>0.036</td></tr> <tr><td>10</td><td><a href="#">3146 10 00</a></td><td>22</td><td>22</td><td>19</td><td>8.5</td><td>23</td><td>24.5</td><td>18.5</td><td>0.065</td></tr> <tr><td>12</td><td><a href="#">3146 12 00</a></td><td>26</td><td>25</td><td>22</td><td>8.5</td><td>27</td><td>25</td><td>22.5</td><td>0.096</td></tr> <tr><td>14</td><td><a href="#">3146 14 00</a></td><td>29</td><td>29</td><td>24</td><td>10.5</td><td>27</td><td>27</td><td>25.5</td><td>0.125</td></tr> </table>		4	<a href="#">3146 04 00</a>	13	13	10	7	17.5	17.5	10.5	0.018	6	<a href="#">3146 06 00</a>	15	17	13	8	19	18	12.5	0.029	8	<a href="#">3146 08 00</a>	18	19	14	8	20.5	20.5	15.5	0.036	10	<a href="#">3146 10 00</a>	22	22	19	8.5	23	24.5	18.5	0.065	12	<a href="#">3146 12 00</a>	26	25	22	8.5	27	25	22.5	0.096	14	<a href="#">3146 14 00</a>	29	29	24	10.5	27	27
4	<a href="#">3146 04 00</a>	13	13	10	7	17.5	17.5	10.5	0.018																																																			
6	<a href="#">3146 06 00</a>	15	17	13	8	19	18	12.5	0.029																																																			
8	<a href="#">3146 08 00</a>	18	19	14	8	20.5	20.5	15.5	0.036																																																			
10	<a href="#">3146 10 00</a>	22	22	19	8.5	23	24.5	18.5	0.065																																																			
12	<a href="#">3146 12 00</a>	26	25	22	8.5	27	25	22.5	0.096																																																			
14	<a href="#">3146 14 00</a>	29	29	24	10.5	27	27	25.5	0.125																																																			

Push-in connection with compression fitting

## 3136 Bulkhead Connector, Female BSPP Thread

	Nickel-plated brass, NBR		<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F1</b>	<b>F2</b>	<b>K<sub>max</sub></b>	<b>L1</b>	<b>L2</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																																																																																							
	<table border="1"> <tr><td rowspan="2">4</td><td>G1/8</td><td><a href="#">3136 04 10</a></td><td>9.5</td><td>13</td><td>13</td><td>7</td><td>17</td><td>11.5</td><td>10.5</td><td>0.015</td></tr> <tr><td>G1/4</td><td><a href="#">3136 04 13</a></td><td>13.5</td><td>13</td><td>16</td><td>7</td><td>17</td><td>15.5</td><td>10.5</td><td>0.021</td></tr> <tr><td rowspan="2">6</td><td>G1/8</td><td><a href="#">3136 06 10</a></td><td>9.5</td><td>15</td><td>15</td><td>8</td><td>19</td><td>10.5</td><td>12.5</td><td>0.020</td></tr> <tr><td>G1/4</td><td><a href="#">3136 06 13</a></td><td>13.5</td><td>15</td><td>17</td><td>7</td><td>19</td><td>15.5</td><td>12.5</td><td>0.027</td></tr> <tr><td rowspan="2">8</td><td>G1/8</td><td><a href="#">3136 08 10</a></td><td>9.5</td><td>18</td><td>17</td><td>8</td><td>20.5</td><td>10.5</td><td>15.5</td><td>0.029</td></tr> <tr><td>G1/4</td><td><a href="#">3136 08 13</a></td><td>13.5</td><td>18</td><td>17</td><td>8</td><td>20.5</td><td>14.5</td><td>15.5</td><td>0.029</td></tr> <tr><td rowspan="2">10</td><td>G3/8</td><td><a href="#">3136 10 17</a></td><td>14</td><td>22</td><td>22</td><td>8.5</td><td>23</td><td>16</td><td>18.5</td><td>0.051</td></tr> <tr><td>G3/8</td><td><a href="#">3136 12 17</a></td><td>14</td><td>26</td><td>24</td><td>8.5</td><td>27</td><td>16</td><td>22.5</td><td>0.078</td></tr> <tr><td rowspan="2">12</td><td>G1/2</td><td><a href="#">3136 12 21</a></td><td>19.5</td><td>26</td><td>27</td><td>8.5</td><td>27</td><td>21.5</td><td>22.5</td><td>0.097</td></tr> <tr><td>G3/8</td><td><a href="#">3136 16 17</a></td><td>12</td><td>29</td><td>29</td><td>10.5</td><td>30</td><td>15</td><td>27.5</td><td>0.125</td></tr> <tr><td rowspan="2">16</td><td>G1/2</td><td><a href="#">3136 16 21</a></td><td>15</td><td>29</td><td>29</td><td>10.5</td><td>30</td><td>19.5</td><td>27.5</td><td>0.126</td></tr> </table>		4	G1/8	<a href="#">3136 04 10</a>	9.5	13	13	7	17	11.5	10.5	0.015	G1/4	<a href="#">3136 04 13</a>	13.5	13	16	7	17	15.5	10.5	0.021	6	G1/8	<a href="#">3136 06 10</a>	9.5	15	15	8	19	10.5	12.5	0.020	G1/4	<a href="#">3136 06 13</a>	13.5	15	17	7	19	15.5	12.5	0.027	8	G1/8	<a href="#">3136 08 10</a>	9.5	18	17	8	20.5	10.5	15.5	0.029	G1/4	<a href="#">3136 08 13</a>	13.5	18	17	8	20.5	14.5	15.5	0.029	10	G3/8	<a href="#">3136 10 17</a>	14	22	22	8.5	23	16	18.5	0.051	G3/8	<a href="#">3136 12 17</a>	14	26	24	8.5	27	16	22.5	0.078	12	G1/2	<a href="#">3136 12 21</a>	19.5	26	27	8.5	27	21.5	22.5	0.097	G3/8	<a href="#">3136 16 17</a>	12	29	29	10.5	30	15	27.5	0.125	16	G1/2	<a href="#">3136 16 21</a>	15	29	29	10.5	30	19.5
4	G1/8	<a href="#">3136 04 10</a>		9.5	13	13	7	17	11.5	10.5	0.015																																																																																																									
	G1/4	<a href="#">3136 04 13</a>	13.5	13	16	7	17	15.5	10.5	0.021																																																																																																										
6	G1/8	<a href="#">3136 06 10</a>	9.5	15	15	8	19	10.5	12.5	0.020																																																																																																										
	G1/4	<a href="#">3136 06 13</a>	13.5	15	17	7	19	15.5	12.5	0.027																																																																																																										
8	G1/8	<a href="#">3136 08 10</a>	9.5	18	17	8	20.5	10.5	15.5	0.029																																																																																																										
	G1/4	<a href="#">3136 08 13</a>	13.5	18	17	8	20.5	14.5	15.5	0.029																																																																																																										
10	G3/8	<a href="#">3136 10 17</a>	14	22	22	8.5	23	16	18.5	0.051																																																																																																										
	G3/8	<a href="#">3136 12 17</a>	14	26	24	8.5	27	16	22.5	0.078																																																																																																										
12	G1/2	<a href="#">3136 12 21</a>	19.5	26	27	8.5	27	21.5	22.5	0.097																																																																																																										
	G3/8	<a href="#">3136 16 17</a>	12	29	29	10.5	30	15	27.5	0.125																																																																																																										
16	G1/2	<a href="#">3136 16 21</a>	15	29	29	10.5	30	19.5	27.5	0.126																																																																																																										

## 3139 Equal Bulkhead Elbow


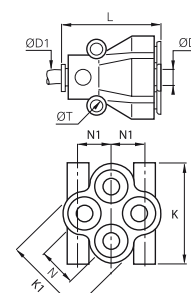

	Technical polymer, nickel-plated brass, NBR		<b>ØD</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>K<sub>max</sub></b>	<b>L</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																											
	<table border="1"> <tr><td>4</td><td><a href="#">3139 04 00</a></td><td>13</td><td>8.5</td><td>17</td><td>6.5</td><td>14.5</td><td>10.5</td><td>0.014</td></tr> <tr><td>6</td><td><a href="#">3139 06 00</a></td><td>15</td><td>10.5</td><td>19.5</td><td>7</td><td>17.5</td><td>12.5</td><td>0.021</td></tr> <tr><td>8</td><td><a href="#">3139 08 00</a></td><td>18</td><td>13.5</td><td>24</td><td>8</td><td>23</td><td>15.5</td><td>0.032</td></tr> <tr><td>10</td><td><a href="#">3139 10 00</a></td><td>22</td><td>16</td><td>28</td><td>8.5</td><td>26</td><td>18.5</td><td>0.050</td></tr> <tr><td>12</td><td><a href="#">3139 12 00</a></td><td>26</td><td>19</td><td>33</td><td>8.5</td><td>31</td><td>22.5</td><td>0.086</td></tr> <tr><td>14</td><td><a href="#">3139 14 00</a></td><td>29</td><td>25.5</td><td>37.5</td><td>10.5</td><td>36</td><td>25.5</td><td>0.116</td></tr> </table>		4	<a href="#">3139 04 00</a>	13	8.5	17	6.5	14.5	10.5	0.014	6	<a href="#">3139 06 00</a>	15	10.5	19.5	7	17.5	12.5	0.021	8	<a href="#">3139 08 00</a>	18	13.5	24	8	23	15.5	0.032	10	<a href="#">3139 10 00</a>	22	16	28	8.5	26	18.5	0.050	12	<a href="#">3139 12 00</a>	26	19	33	8.5	31	22.5	0.086	14	<a href="#">3139 14 00</a>	29	25.5	37.5	10.5	36
4	<a href="#">3139 04 00</a>	13	8.5	17	6.5	14.5	10.5	0.014																																														
6	<a href="#">3139 06 00</a>	15	10.5	19.5	7	17.5	12.5	0.021																																														
8	<a href="#">3139 08 00</a>	18	13.5	24	8	23	15.5	0.032																																														
10	<a href="#">3139 10 00</a>	22	16	28	8.5	26	18.5	0.050																																														
12	<a href="#">3139 12 00</a>	26	19	33	8.5	31	22.5	0.086																																														
14	<a href="#">3139 14 00</a>	29	25.5	37.5	10.5	36	25.5	0.116																																														

The body swivels for positioning purposes.


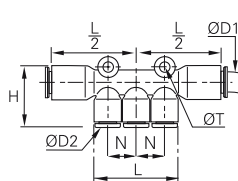



# Multiple Fittings


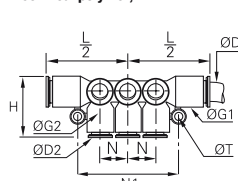

## 3144 Equal and Unequal Multiple Y Piece

	<p>Technical polymer, NBR</p> 	<p>ØD ØD1 </p>	<p>K K1 L N N1 ØT kg</p>																																			
		<table border="1"> <tr> <td rowspan="2">4</td> <td>4</td> <td><a href="#">3144 04 04</a></td> <td>25.5</td> <td>21</td> <td>30.5</td> <td>10</td> <td>8.5</td> <td>3.7</td> <td>0.015</td> </tr> <tr> <td>6</td> <td><a href="#">3144 04 06</a></td> <td>26</td> <td>21</td> <td>30.5</td> <td>10</td> <td>10</td> <td>3.7</td> <td>0.013</td> </tr> <tr> <td rowspan="2">6</td> <td>6</td> <td><a href="#">3144 06 06</a></td> <td>31.5</td> <td>26.5</td> <td>37.5</td> <td>12</td> <td>8.5</td> <td>3.7</td> <td>0.034</td> </tr> <tr> <td>8</td> <td><a href="#">3144 06 08</a></td> <td>31.5</td> <td>26.5</td> <td>38</td> <td>12</td> <td>10</td> <td>3.7</td> <td>0.026</td> </tr> </table>	4	4	<a href="#">3144 04 04</a>	25.5	21	30.5	10	8.5	3.7	0.015	6	<a href="#">3144 04 06</a>	26	21	30.5	10	10	3.7	0.013	6	6	<a href="#">3144 06 06</a>	31.5	26.5	37.5	12	8.5	3.7	0.034	8	<a href="#">3144 06 08</a>	31.5	26.5	38	12	10
4	4	<a href="#">3144 04 04</a>		25.5	21	30.5	10	8.5	3.7	0.015																												
	6	<a href="#">3144 04 06</a>	26	21	30.5	10	10	3.7	0.013																													
6	6	<a href="#">3144 06 06</a>	31.5	26.5	37.5	12	8.5	3.7	0.034																													
	8	<a href="#">3144 06 08</a>	31.5	26.5	38	12	10	3.7	0.026																													


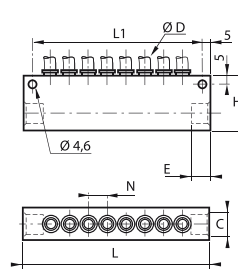

## 3304 Multiple Tee

	<p>Technical polymer, NBR</p> 	<p>ØD1 ØD2 </p>	<p>H L L/2 N ØT kg</p>																																								
		<table border="1"> <tr> <td rowspan="2">6</td> <td>4</td> <td><a href="#">3304 06 04</a></td> <td>24.5</td> <td>34</td> <td>37</td> <td>11.5</td> <td>4.2</td> <td>0.015</td> </tr> <tr> <td>8</td> <td><a href="#">3304 08 04</a></td> <td>24.5</td> <td>34</td> <td>37</td> <td>11.5</td> <td>4.2</td> <td>0.012</td> </tr> <tr> <td rowspan="2">8</td> <td>6</td> <td><a href="#">3304 08 06</a></td> <td>24.5</td> <td>34</td> <td>37</td> <td>11.5</td> <td>4.2</td> <td>0.010</td> </tr> <tr> <td>10</td> <td><a href="#">3304 10 06</a></td> <td>36</td> <td>44</td> <td>40.5</td> <td>14.5</td> <td>4.2</td> <td>0.019</td> </tr> <tr> <td>10</td> <td>8</td> <td><a href="#">3304 10 08</a></td> <td>36</td> <td>44</td> <td>40.5</td> <td>15.5</td> <td>4.2</td> <td>0.015</td> </tr> </table>	6	4	<a href="#">3304 06 04</a>	24.5	34	37	11.5	4.2	0.015	8	<a href="#">3304 08 04</a>	24.5	34	37	11.5	4.2	0.012	8	6	<a href="#">3304 08 06</a>	24.5	34	37	11.5	4.2	0.010	10	<a href="#">3304 10 06</a>	36	44	40.5	14.5	4.2	0.019	10	8	<a href="#">3304 10 08</a>	36	44	40.5	15.5
6	4	<a href="#">3304 06 04</a>		24.5	34	37	11.5	4.2	0.015																																		
	8	<a href="#">3304 08 04</a>	24.5	34	37	11.5	4.2	0.012																																			
8	6	<a href="#">3304 08 06</a>	24.5	34	37	11.5	4.2	0.010																																			
	10	<a href="#">3304 10 06</a>	36	44	40.5	14.5	4.2	0.019																																			
10	8	<a href="#">3304 10 08</a>	36	44	40.5	15.5	4.2	0.015																																			

## 3306 90° Multiple Elbow



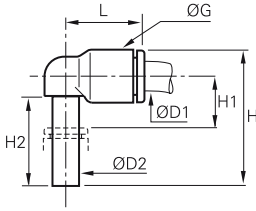
	<p>Technical polymer, NBR</p> 	<p>ØD1 ØD2 </p>	<p>G G1 H L/2 N N1 ØT kg</p>																																																		
		<table border="1"> <tr> <td rowspan="2">6</td> <td>4</td> <td><a href="#">3306 06 04</a></td> <td>13.5</td> <td>11</td> <td>18.5</td> <td>36</td> <td>43</td> <td>11.5</td> <td>4.2</td> <td>0.034</td> </tr> <tr> <td>8</td> <td><a href="#">3306 08 04</a></td> <td>13.5</td> <td>11</td> <td>18.5</td> <td>36.5</td> <td>43</td> <td>11.5</td> <td>4.2</td> <td>0.025</td> </tr> <tr> <td rowspan="2">8</td> <td>6</td> <td><a href="#">3306 08 06</a></td> <td>13.5</td> <td>11</td> <td>18.5</td> <td>36.5</td> <td>43</td> <td>11.5</td> <td>4.2</td> <td>0.022</td> </tr> <tr> <td>10</td> <td><a href="#">3306 10 06</a></td> <td>16</td> <td>13.5</td> <td>23</td> <td>42</td> <td>52</td> <td>14.5</td> <td>4.2</td> <td>0.048</td> </tr> <tr> <td>10</td> <td>8</td> <td><a href="#">3306 10 08</a></td> <td>16</td> <td>13.5</td> <td>23.5</td> <td>42</td> <td>52</td> <td>14.5</td> <td>4.2</td> <td>0.036</td> </tr> </table>	6	4	<a href="#">3306 06 04</a>	13.5	11	18.5	36	43	11.5	4.2	0.034	8	<a href="#">3306 08 04</a>	13.5	11	18.5	36.5	43	11.5	4.2	0.025	8	6	<a href="#">3306 08 06</a>	13.5	11	18.5	36.5	43	11.5	4.2	0.022	10	<a href="#">3306 10 06</a>	16	13.5	23	42	52	14.5	4.2	0.048	10	8	<a href="#">3306 10 08</a>	16	13.5	23.5	42	52	14.5
6	4	<a href="#">3306 06 04</a>		13.5	11	18.5	36	43	11.5	4.2	0.034																																										
	8	<a href="#">3306 08 04</a>	13.5	11	18.5	36.5	43	11.5	4.2	0.025																																											
8	6	<a href="#">3306 08 06</a>	13.5	11	18.5	36.5	43	11.5	4.2	0.022																																											
	10	<a href="#">3306 10 06</a>	16	13.5	23	42	52	14.5	4.2	0.048																																											
10	8	<a href="#">3306 10 08</a>	16	13.5	23.5	42	52	14.5	4.2	0.036																																											

## 3310 In-Line Manifold

	<p>Treated aluminium, NBR</p> 	<p>ØD C </p>	<p>Number of Outlets E H L L1 N kg</p>																																															
		<table border="1"> <tr> <td>4</td> <td>G1/4</td> <td><a href="#">3310 04 13</a></td> <td>8</td> <td>10</td> <td>33</td> <td>114</td> <td>104</td> <td>11.5</td> <td>0.175</td> </tr> <tr> <td>6</td> <td>G1/4</td> <td><a href="#">3310 06 13</a></td> <td>8</td> <td>10</td> <td>33</td> <td>114</td> <td>104</td> <td>12.5</td> <td>0.170</td> </tr> <tr> <td>8</td> <td>G3/8</td> <td><a href="#">3310 08 17</a></td> <td>6</td> <td>12</td> <td>33</td> <td>114</td> <td>104</td> <td>15</td> <td>0.157</td> </tr> <tr> <td>10</td> <td>G1/2</td> <td><a href="#">3310 10 21</a></td> <td>6</td> <td>16</td> <td>48</td> <td>145.5</td> <td>135.5</td> <td>17</td> <td>0.348</td> </tr> <tr> <td>12</td> <td>G1/2</td> <td><a href="#">3310 12 21</a></td> <td>6</td> <td>16</td> <td>45</td> <td>158</td> <td>148</td> <td>20.5</td> <td>0.370</td> </tr> </table>	4	G1/4	<a href="#">3310 04 13</a>	8	10	33	114	104	11.5	0.175	6	G1/4	<a href="#">3310 06 13</a>	8	10	33	114	104	12.5	0.170	8	G3/8	<a href="#">3310 08 17</a>	6	12	33	114	104	15	0.157	10	G1/2	<a href="#">3310 10 21</a>	6	16	48	145.5	135.5	17	0.348	12	G1/2	<a href="#">3310 12 21</a>	6	16	45	158	148
4	G1/4	<a href="#">3310 04 13</a>	8	10	33	114	104	11.5	0.175																																									
6	G1/4	<a href="#">3310 06 13</a>	8	10	33	114	104	12.5	0.170																																									
8	G3/8	<a href="#">3310 08 17</a>	6	12	33	114	104	15	0.157																																									
10	G1/2	<a href="#">3310 10 21</a>	6	16	48	145.5	135.5	17	0.348																																									
12	G1/2	<a href="#">3310 12 21</a>	6	16	45	158	148	20.5	0.370																																									



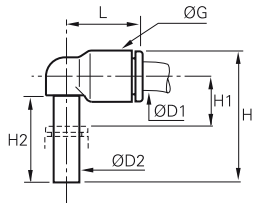
# Plug-In Fittings and Accessories

## 3182 Equal and Unequal Plug-In Elbow



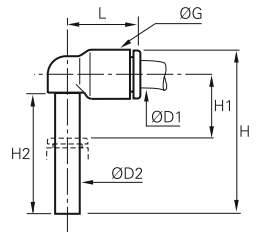
	Technical polymer, NBR			<b>G</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>L</b>	<b>kg</b>	
	<b>ØD1</b>	<b>ØD2</b>								
		4	4	<a href="#">3182 04 00</a>	8.5	23	6	15.5	14	0.001
		4	6	<a href="#">3182 04 06</a>	10.5	26.5	7	17	16	0.003
		6	4	<a href="#">3182 06 04</a>	10.5	24.5	7	15.5	16	0.001
		6	6	<a href="#">3182 06 00</a>	10.5	26.5	7	17	16	0.001
		6	8	<a href="#">3182 06 08</a>	13.5	33.5	8	21.5	23	0.007
		8	8	<a href="#">3182 08 00</a>	13.5	33.5	8	21.5	23	0.003
		8	10	<a href="#">3182 08 10</a>	16	39	10	24.5	26.5	0.010
		10	10	<a href="#">3182 10 00</a>	16	39	10	24.5	26.5	0.004
		10	12	<a href="#">3182 10 12</a>	19	44.5	10.5	27.5	31	0.017
		12	12	<a href="#">3182 12 00</a>	19	45.5	10.5	27.5	31	0.007

## 3182 Equal Plug-In Elbow



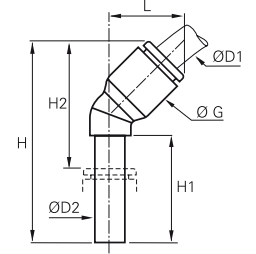
Inch

	Technical polymer, NBR			<b>G</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>L</b>	<b>kg</b>	
	<b>ØD1</b>	<b>ØD2</b>								
		1/4	1/4	<a href="#">3182 56 00</a>	11	27.5	7.5	18	18.5	0.002
		3/8	3/8	<a href="#">3182 60 00</a>	16	38.5	9	24	26	0.010
		1/2	1/2	<a href="#">3182 62 00</a>	22	51	13	28	35	0.030
		5/32" (4 mm) and 5/16" (8 mm) also available								

## 3184 Extended Equal and Unequal Plug-In Elbow


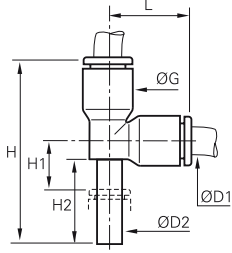

	Technical polymer, NBR			<b>G</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>L</b>	<b>kg</b>	
	<b>ØD1</b>	<b>ØD2</b>								
		4	4	<a href="#">3184 04 00</a>	8.5	32.5	15.5	25	14	0.004
		4	6	<a href="#">3184 04 06</a>	10.5	38.5	19	29	16	0.004
		6	6	<a href="#">3184 06 00</a>	10.5	38.5	19	29	16	0.002
		6	8	<a href="#">3184 06 08</a>	13.5	49	23.5	37	23	0.010
		8	8	<a href="#">3184 08 00</a>	13.5	49	23.5	37	23	0.003
		8	10	<a href="#">3184 08 10</a>	16	56	26.5	41.5	26.5	0.013
		10	10	<a href="#">3184 10 00</a>	16	56	26.5	41.5	26.5	0.010
		10	12	<a href="#">3184 10 12</a>	19	62.5	28	45.5	31	0.020
		12	12	<a href="#">3184 12 00</a>	19	62.5	28	45.5	31	0.014

## 3180 45° Plug-In Equal Elbow


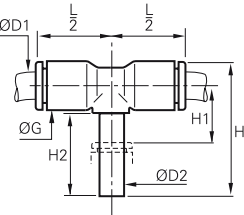

	Technical polymer, NBR			<b>G</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>L</b>	<b>kg</b>	
	<b>ØD1</b>	<b>ØD2</b>								
		4	4	<a href="#">3180 04 00</a>	9	33.5	19	21	13	0.001
		6	6	<a href="#">3180 06 00</a>	11	39	21	25	14.5	0.003
		8	8	<a href="#">3180 08 00</a>	13.5	44	21.5	25.5	19.5	0.005
		10	10	<a href="#">3180 10 00</a>	16	53	27	32.5	23	0.004
		12	12	<a href="#">3180 12 00</a>	19	58.5	27.5	34	26.5	0.007

# Plug-In Fittings and Accessories


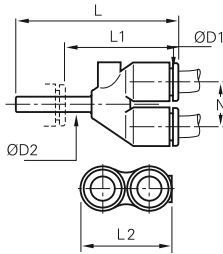

## 3183 Equal and Unequal Plug-In Run Tee

	<p>Technical polymer, NBR</p> 	$\text{ØD1}$	$\text{ØD2}$		<b>G</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>L</b>	<b>kg</b>
		4	4	<a href="#">3183 04 00</a>	8.5	33	6	15.5	14.5	0.002
		4	6	<a href="#">3183 04 06</a>	10.5	38.5	7	17	17.5	0.006
		6	6	<a href="#">3183 06 00</a>	10.5	38.5	7	17	17	0.002
		6	8	<a href="#">3183 06 08</a>	13.5	48.5	8	21.5	23	0.014
		8	8	<a href="#">3183 08 00</a>	13.5	49	8	21.5	23	0.004
		8	10	<a href="#">3183 08 10</a>	16	56.5	10.5	24.5	26.5	0.018
		10	10	<a href="#">3183 10 00</a>	16	57	10.5	24.5	26.5	0.007
		10	12	<a href="#">3183 10 12</a>	19	65.5	10.5	27.5	31	0.034
		12	12	<a href="#">3183 12 00</a>	19	65.5	10.5	27.5	31	0.011


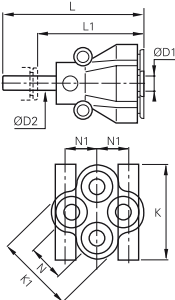

## 3188 Equal and Unequal Plug-In Branch Tee

	<p>Technical polymer, NBR</p> 	$\text{ØD1}$	$\text{ØD2}$		<b>G</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>L/2</b>	<b>kg</b>
		4	4	<a href="#">3188 04 00</a>	8.5	25	8	15.5	14.5	0.002
		4	6	<a href="#">3188 04 06</a>	10.5	28.5	9	17	16	0.007
		6	6	<a href="#">3188 06 00</a>	10.5	28.5	9	17	16	0.002
		6	8	<a href="#">3188 06 08</a>	13.5	36.5	11	21.5	22	0.014
		8	8	<a href="#">3188 08 00</a>	13.5	36.5	11	21.5	23	0.005
		8	10	<a href="#">3188 08 10</a>	16	41	12.5	24.5	26.5	0.018
		10	10	<a href="#">3188 10 00</a>	16	41	12.5	24.5	26.5	0.007
		10	12	<a href="#">3188 10 12</a>	19	46.5	12.5	27.5	31	0.034
		12	12	<a href="#">3188 12 00</a>	19	46.5	12.5	27.5	31	0.020

## 3142 Equal and Unequal Plug-In Single Y Piece

	<p>Technical polymer, NBR</p> 	$\text{ØD1}$	$\text{ØD2}$		<b>L</b>	<b>L1</b>	<b>L2</b>	<b>N</b>	<b>kg</b>
		4	4	<a href="#">3142 04 00</a>	34	21.5	17.5	9	0.002
		4	6	<a href="#">3142 04 06</a>	35.5	21.5	17.5	9	0.004
		6	6	<a href="#">3142 06 00</a>	39.5	25.5	21.5	11	0.004
		6	8	<a href="#">3142 06 08</a>	44	25.5	21.5	11	0.015
		8	8	<a href="#">3142 08 00</a>	50.5	32	28	14.5	0.007
		8	10	<a href="#">3142 08 10</a>	53.5	32	28	14.5	0.024
		10	10	<a href="#">3142 10 00</a>	57.5	36	33	17	0.010
		10	12	<a href="#">3142 10 12</a>	60	35	33	17	0.037
		12	12	<a href="#">3142 12 00</a>	66	41	39	20	0.017

## 3143 Multiple Plug-In Y Piece

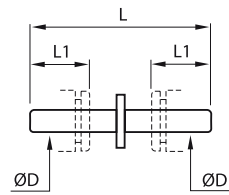
	<p>Technical polymer, nickel-plated brass, NBR</p> 	$\text{ØD1}$	$\text{ØD2}$		<b>K</b>	<b>K1</b>	<b>L</b>	<b>L1</b>	<b>N</b>	<b>N1</b>	<b>kg</b>
		4	6	<a href="#">3143 04 06</a>	26	21.5	49.5	35.5	11	8.5	0.012
		4	8	<a href="#">3143 04 08</a>	26	21.5	51	32	11	8.5	0.021
		6	8	<a href="#">3143 06 08</a>	31.5	26.5	57.5	39	12	10	0.035

# Plug-In Fittings and Accessories

## 3120 Stem Connector



Technical polymer



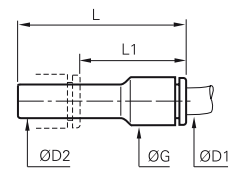
ØD		L	L1	kg
4	<a href="#">3120 04 00</a>	34.5	12	0.001
6	<a href="#">3120 06 00</a>	38.5	14	0.001
8	<a href="#">3120 08 00</a>	41	18.5	0.001
10	<a href="#">3120 10 00</a>	51.5	20.5	0.002
12	<a href="#">3120 12 00</a>	60	24.5	0.004
14	<a href="#">3120 14 00</a>	69.5	25.5	0.007

This model is available in nickel-plated brass; please use suffix 85. Example: 3120 04 00 85.  
Only compatible with Parker Legris fittings.  
Drawing available upon request.

## 3166 Plug-In Reducer



Technical polymer, NBR



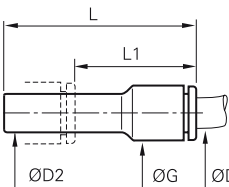
ØD1	ØD2		G	L	L1	kg
3	4	<a href="#">3166 03 04</a>	8.5	37.5	23.5	0.002
	6	<a href="#">3166 04 06</a>	8.5	37.5	23.5	0.001
4	8	<a href="#">3166 04 08</a>	8.5	37.5	19	0.001
	10	<a href="#">3166 04 10</a>	12	44	22.5	0.003
6	8	<a href="#">3166 06 08</a>	10.5	37.5	20	0.001
	10	<a href="#">3166 06 10</a>	10.5	38	17.5	0.002
	12	<a href="#">3166 06 12</a>	14.5	46	23	0.005
8	14	<a href="#">3166 06 14</a>	14.5	48	23	0.006
	10	<a href="#">3166 08 10</a>	13.5	49	28.5	0.003
	12	<a href="#">3166 08 12</a>	13.5	49	24.5	0.004
10	14	<a href="#">3166 08 14</a>	17	48	23	0.007
	12	<a href="#">3166 10 12</a>	21.5	56.5	33.5	0.006
12	14	<a href="#">3166 10 14</a>	21.5	58.5	33.5	0.007
12	14	<a href="#">3166 12 14</a>	23.5	58.5	33.5	0.010

## 3166 Plug-In Reducer

Inch



Technical polymer, NBR

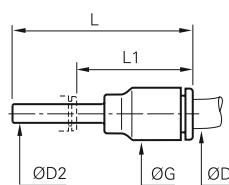


ØD1	ØD2		G	L	L1	kg
1/4	5/16	<a href="#">3166 56 08</a>	11	41	23	0.002
	3/8	<a href="#">3166 56 60</a>	11	41	21	0.002

## 3168 Plug-In Increaser



Technical polymer, NBR



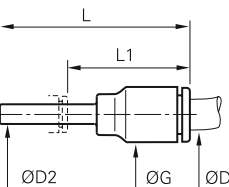
ØD1	ØD2		G	L	L1	kg
6	4	<a href="#">3168 06 04</a>	10.5	35	23	0.001
	6	<a href="#">3168 08 06</a>	13.5	45	31.5	0.003
8	1/4	<a href="#">3168 08 56</a>	16	40	25.5	0.008
	8	<a href="#">3168 10 08</a>	16	42.5	21	0.009
12	10	<a href="#">3168 12 10</a>	19	49	24.5	0.012

## 3168 Plug-In Increaser

Inch




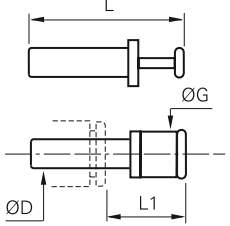

Technical polymer, NBR



ØD1	ØD2		G	L	L1	kg
1/4	5/32	<a href="#">3168 56 04</a>	11	41	29	0.001
	3/16	<a href="#">3168 56 55</a>	20.5	41	25	0.003

# Plug-In Fittings and Accessories


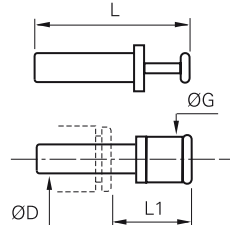

## 3126 Blanking Plug

	<p>Technical polymer</p> 	<b>ØD</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		3	<a href="#">3126 03 00</a>	6	25	13.5	0.001
		4	<a href="#">3126 04 00</a>	4	30	15.5	0.001
		6	<a href="#">3126 06 00</a>	8	33	16.5	0.001
		8	<a href="#">3126 08 00</a>	10	35	17.5	0.001
		10	<a href="#">3126 10 00</a>	12	42	21	0.002
		12	<a href="#">3126 12 00</a>	14	45	22	0.003
		14	<a href="#">3126 14 00</a>	16	49	23.5	0.005
		16	<a href="#">3126 16 00*</a>	19	57	30	0.063

\*Nickel-plated brass


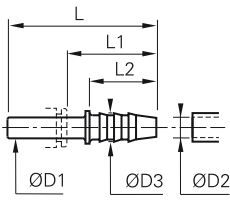

## 3126 Blanking Plug

Inch


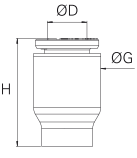

	<p>Technical polymer</p> 	<b>ØD</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		1/4	<a href="#">3126 56 00</a>	8	36.5	22	0.001
		3/8	<a href="#">3126 60 00</a>	12	42	22	0.002
		1/2	<a href="#">3126 62 00</a>	15	48.5	21.5	0.003

5/32" (4 mm) and 5/16" (8 mm) also available

## 3122 Plug-In Barb Connector

	<p>Technical polymer</p> 	<b>ØD1</b>	<b>ØD2</b>		<b>ØD3</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		4	3.2	<a href="#">3122 04 53</a>	5	37	25	17	0.004
			5	<a href="#">3122 04 05</a>	7	37	25	17	0.005
		6	5	<a href="#">3122 06 05</a>	7	39	25	17	0.001
		8	6.3	<a href="#">3122 08 56</a>	8.5	39.5	21	17	0.001
			8	<a href="#">3122 08 08</a>	10	44.5	26	22	0.001
		10	6.3	<a href="#">3122 10 56</a>	8	45	24.5	17	0.002
			8	<a href="#">3122 10 08</a>	10	50	29.5	22	0.002
			8	<a href="#">3122 12 08</a>	10	50	26	22	0.002
		12	10	<a href="#">3122 12 10</a>	12	48.5	25.5	22.5	0.002
			12.5	<a href="#">3122 12 62</a>	14.5	57	34	22.5	0.004
		14	12.5	<a href="#">3122 14 62</a>	14.5	59.5	34.5	22.5	0.022

## 3151 End Cap

	<p>Technical polymer, NBR</p> 	<b>ØD</b>		<b>G</b>	<b>H</b>	<b>kg</b>
		4	<a href="#">3151 04 00</a>	8.5	14.7	0.001
		6	<a href="#">3151 06 00</a>	10.5	16.9	0.001
		8	<a href="#">3151 08 00</a>	13.5	21.9	0.002
		10	<a href="#">3151 10 00</a>	16	22.2	0.003
		12	<a href="#">3151 12 00</a>	19	27.7	0.006
		14	<a href="#">3151 14 00</a>	22	28	0.014

Other products are available upon request; please do not hesitate to consult us.

# Banjo Fittings

This range of fittings is ideal when access is only possible from above and **orientation of the tube** is required. This range of modular fittings includes single and multiple configurations, allowing **wide flexibility of design**.

## Product Advantages

**Compact**

- Compact design with minimum space between fittings
- Banjo bolt designed for maximum flow
- Easy access, even when fittings are close together
- Easy assembly and automatic sealing:
  - with pre-coating on taper threads
  - with an integral O-ring seal on parallel threads
- Safe operation: orientation of tube is ensured
- 100% leak-tested in production
- Date coding to guarantee quality and traceability

**Modular**

- Effortless stacking of banjo bodies to allow construction of 2 to 6 outlets
- Orientable (360°) for perfect alignment
- Modular: tube diameters may be different



**Applications**

- Robotics
- Automotive Process
- Pneumatics
- Semi-Conductors
- Textile
- Packaging

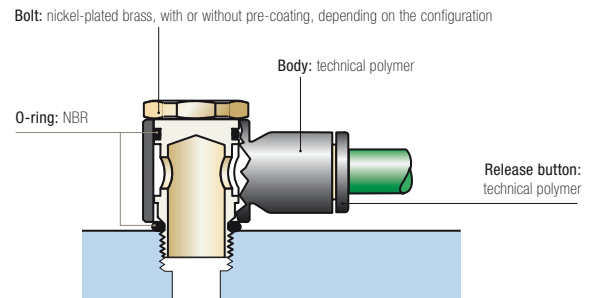
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: please consult us
<b>Working Pressure</b>	Vacuum to 20 bar
<b>Working Temperature</b>	-20°C to +80°C

Tightening Torque (daN.m)	Threads					
	M3 x0.5	M5 x0.8	G1/8	G1/4	G3/8	G1/2
	0.05	0.1	0.4	0.5	0.6	0.7

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

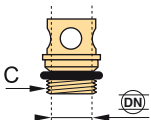
### Regulations

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes  
DI: 97/23/EC (PED)

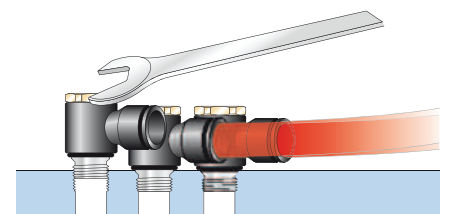
DI: 2002/95/EC (RoHS)  
2011/65/EC  
DI: 1907/2006 (REACH)

## Installation Configurations

Thread and bore diameters for part numbers 3524 - 3527 - 3528 - 3529:


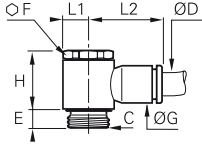



Thread (C)	M5x0.8	G1/8	G1/4	G3/8	G1/2
DN	2.5	5.5	8.5	11	13




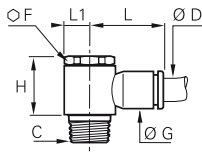

# Banjo Fittings

## 3118 Single Banjo, Male BSPP and Metric Thread

	 <p>Technical polymer, nickel-plated brass, NBR</p>	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		3	M3x0.5	<a href="#">3118 03 09*</a>	3	-	8.5	13	5	16	0.005
			M5x0.8	<a href="#">3118 03 19*</a>	4	-	8.5	13	5	16	0.005
			M5x0.8	<a href="#">3118 04 19*</a>	4	-	8.5	13	5	16.5	0.004
			G1/8	<a href="#">3118 04 10</a>	4	13	8.5	17	7	18.5	0.012
			M5x0.8	<a href="#">3118 06 19*</a>	4	-	10.5	13	7	18.5	0.004
			G1/8	<a href="#">3118 06 10</a>	4	13	10.5	17	7	20	0.013
			G1/4	<a href="#">3118 06 13</a>	5.5	17	10.5	21	9.5	22	0.023
			G1/8	<a href="#">3118 08 10</a>	4	13	13.5	16.5	7	25	0.013
			G1/4	<a href="#">3118 08 13</a>	5.5	17	13.5	21	9	27	0.024
			G3/8	<a href="#">3118 08 17</a>	5.5	20	13.5	24.5	11	29	0.038
			G1/4	<a href="#">3118 10 13</a>	5.5	17	16	21	9.5	29	0.025
			G3/8	<a href="#">3118 10 17</a>	5.5	20	16	24.5	11	31	0.039
			G1/2	<a href="#">3118 10 21</a>	8	25	19	27.5	13.5	36.5	0.083
			G3/8	<a href="#">3118 12 17</a>	5.5	20	19	24.5	11	34.5	0.044
			G1/2	<a href="#">3118 12 21</a>	8	25	19	27.5	13.5	36.5	0.074


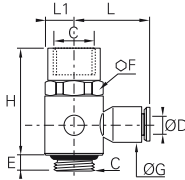

\*With screwdriver slot

## 3018 Single Banjo, Male BSPT Thread

	 <p>Technical polymer, nickel-plated brass, NBR</p>	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		4	R1/8	<a href="#">3018 04 10</a>	13	8.5	18.5	18.5	7	0.015
			R1/8	<a href="#">3018 06 10</a>	13	10.5	18.5	20	7	0.015
			R1/4	<a href="#">3018 06 13</a>	17	10.5	22.5	22	9.5	0.029
			R1/8	<a href="#">3018 08 10</a>	13	13.5	18.5	25	7	0.016
			R1/4	<a href="#">3018 08 13</a>	17	13.5	22.5	27	9.5	0.030
			R3/8	<a href="#">3018 08 17</a>	21	13.5	26.5	29	11	0.047
			R1/4	<a href="#">3018 10 13</a>	17	16	22.5	29	9.5	0.032
			R3/8	<a href="#">3018 10 17</a>	21	16	26.5	31	11	0.048
			R1/4	<a href="#">3018 12 13</a>	21	19	26.5	34.5	11	0.052
			R3/8	<a href="#">3018 12 17</a>	21	19	26.5	34.5	11	0.050
			R1/2	<a href="#">3018 12 21</a>	25	19	30	37	13.5	0.086


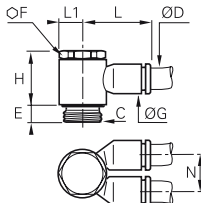

Pre-coated thread

## 3124 Single Banjo, Male/Female BSPP and Metric Thread

	 <p>Technical polymer, nickel-plated brass, NBR</p>	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		4	M5x0.8	<a href="#">3124 04 19</a>	4	8	8.5	19	16	5	0.006
			G1/8	<a href="#">3124 04 10</a>	4	13	8.5	25.5	18.5	7	0.015
			G1/4	<a href="#">3124 06 13</a>	5.5	17	10.5	33	22	9	0.030
			G3/8	<a href="#">3124 08 17</a>	5.5	20	13.5	37.5	29	11	0.056


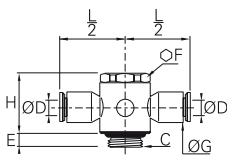

This product family was developed to allow assembly of a function fitting on a cylinder.

## 3149 Twin Banjo, Male BSPP and Metric Thread

	 <p>Technical polymer, nickel-plated brass, NBR</p>	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>N</b>	<b>kg</b>
		4	M5x0.8	<a href="#">3149 04 19*</a>	4	-	8.5	13	16	4.5	9	0.005
			G1/8	<a href="#">3149 04 10</a>	4	13	10.5	16.5	18.5	7	11.5	0.018
			G1/8	<a href="#">3149 06 10</a>	4	13	10.5	16.5	18.5	7	11.5	0.014
			G1/4	<a href="#">3149 06 13</a>	5.5	17	13.5	21	27	9.5	14.5	0.035
			G1/4	<a href="#">3149 08 13</a>	5.5	17	13.5	21	27	9.5	14.5	0.026
			G3/8	<a href="#">3149 08 17</a>	5.5	20	16	24.5	31	11	17	0.053
			G3/8	<a href="#">3149 10 17</a>	5.5	20	16	24.5	31	11	17	0.042

\*With screwdriver slot

## 3119 Double Banjo, BSPP and Metric Thread

	 <p>Technical polymer, nickel-plated brass, NBR</p>	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>L/2</b>	<b>kg</b>
		4	M5x0.8	<a href="#">3119 04 19*</a>	4	-	8.5	13	8	0.005
			G1/8	<a href="#">3119 04 10</a>	4	13	11	17	20	0.021
			G1/8	<a href="#">3119 06 10</a>	4	13	11	17	20	0.024
			G1/4	<a href="#">3119 06 13</a>	5.5	17	13.5	21	26.5	0.031
			G1/4	<a href="#">3119 08 13</a>	5.5	17	13.5	21	27	0.033
			G3/8	<a href="#">3119 08 17</a>	5.5	20	16	24.5	30.5	0.053
			G3/8	<a href="#">3119 10 17</a>	5.5	20	16	24.5	31	0.045

\*With screwdriver slot

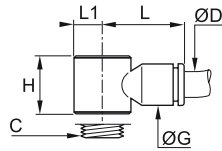
# Banjo Fittings

**3538**

## Single Banjo Bodies



Technical polymer, NBR



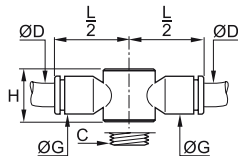
ØD	C		G	H	L	L1	kg
3	M5x0.8	<a href="#">3538 03 19</a>	8.5	13	16	5	0.003
	M5x0.8	<a href="#">3538 04 19</a>	8.5	13	16	5	0.001
4	G1/8	<a href="#">3538 04 10</a>	10.5	14.5	18.5	7	0.002
	M5x0.8	<a href="#">3538 06 19</a>	11	13	18.5	5	0.001
6	G1/8	<a href="#">3538 06 10</a>	10.5	14.5	20	7	0.002
	G1/4	<a href="#">3538 06 13</a>	13.5	18	22	9.5	0.003
8	G1/8	<a href="#">3538 08 10</a>	13.5	14.5	25	7	0.003
	G1/4	<a href="#">3538 08 13</a>	13.5	18	27	9.5	0.004
	G3/8	<a href="#">3538 08 17</a>	13.5	21.5	29	11.5	0.009
10	G1/4	<a href="#">3538 10 13</a>	16	18	29	9.5	0.005
	G3/8	<a href="#">3538 10 17</a>	16	21.5	31	11.5	0.006
	G1/2	<a href="#">3538 10 21</a>	19	22.5	36.5	13.5	0.019
12	G3/8	<a href="#">3538 12 17</a>	19	21.5	34.5	11.5	0.011
	G1/2	<a href="#">3538 12 21</a>	19	22.5	36.5	13.5	0.015

**3539**

## Double Banjo Bodies



Technical polymer, NBR



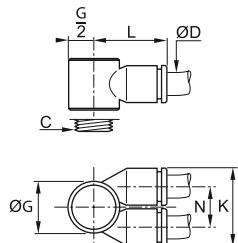
ØD	C		G	H	L/2	kg
4	M5x0.8	<a href="#">3539 04 19</a>	8.5	13	16	0.002
	G1/8	<a href="#">3539 04 10</a>	10.5	14.4	20	0.008
6	G1/8	<a href="#">3539 06 10</a>	10.5	14.4	20	0.011
	G1/4	<a href="#">3539 06 13</a>	13.5	18	26	0.014
8	G1/4	<a href="#">3539 08 13</a>	13.5	18	27	0.013
	G3/8	<a href="#">3539 08 17</a>	16	21.5	30.5	0.020
10	G3/8	<a href="#">3539 10 17</a>	16	21.5	31	0.016

**3549**

## Twin Banjo Bodies



Technical polymer, NBR


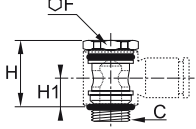



ØD	C		G	K	L	N	kg
4	M5x0.8	<a href="#">3549 04 19</a>	10	17.5	15.5	9	0.003
	G1/8	<a href="#">3549 04 10</a>	14	22.5	20	12	0.007
	G1/4	<a href="#">3549 04 13</a>	18.5	28	25	14.5	0.019
6	G1/8	<a href="#">3549 06 10</a>	14	22.5	20.5	12	0.003
	G1/4	<a href="#">3549 06 13</a>	18.5	28	25	14.5	0.017
8	G3/8	<a href="#">3549 06 17</a>	22.5	33	28.5	17	0.013
	G1/4	<a href="#">3549 08 13</a>	18.5	28	26	14.5	0.010
10	G3/8	<a href="#">3549 08 17</a>	22.5	33	29.5	17	0.020
	G3/8	<a href="#">3549 10 17</a>	22.5	33	29.5	17	0.016




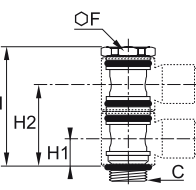

# Modular Banjo Fittings

## 3527 Single Banjo Bolts, Male BSPP and Metric Thread

	Nickel-plated brass, NBR 	<b>C</b>		<b>F</b>	<b>H</b>	<b>H1</b>	<b>kg</b>
		M5x0.8	3527 00 19*	-	17	7.5	0.003
		G1/8	3527 00 10	13	17	7.5	0.011
		G1/4	3527 00 13	17	21	9.5	0.020
		G3/8	3527 00 17	20	24.5	11	0.033
		G1/2	3527 00 21	25	27.5	11.5	0.063


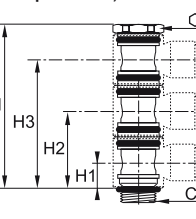

\*With screwdriver slot  
Full bore

## 3528 Stacking Banjo for 2 Body High Modules, Male BSPP and Metric Thread

	Nickel-plated brass, NBR 	<b>C</b>		<b>F</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>kg</b>
		M5x0.8	3528 00 19*	-	24.5	7.5	18.5	0.005
		G1/8	3528 00 10	13	31	7.5	22	0.017
		G1/4	3528 00 13	17	39	9.5	27.5	0.031
		G3/8	3528 00 17	20	46	11	32.5	0.053


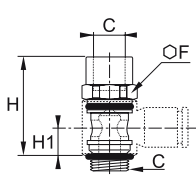

\*With screwdriver slot  
Full bore  
Designed for use with 2 banjo bodies

## 3529 Stacking Banjo for 3 Body High Modules, Male BSPP Thread

	Nickel-plated brass, NBR 	<b>C</b>		<b>F</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>kg</b>
		G1/8	3529 00 10	13	45.5	7.5	22	36	0.023
		G1/4	3529 00 13	17	54	9.5	27.5	45.5	0.042
		G3/8	3529 00 17	20	67.5	11	32.5	54	0.069

Full bore  
Designed for use with 3 banjo bodies


## 3524 Threaded Banjo Bolts, Male/Female BSPP and Metric Thread

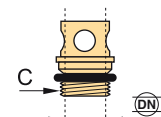
	Nickel-plated brass, NBR 	<b>C</b>		<b>F</b>	<b>H</b>	<b>H1</b>	<b>kg</b>
		M5x0.8	3524 00 19	8	17	7.5	0.005
		G1/8	3524 00 10	13	24.5	7.5	0.013
		G1/4	3524 00 13	17	33	9.5	0.027
		G3/8	3524 00 17	20	37.5	11	0.038
		G1/2	3524 00 21	26	42	11.5	0.067

Full bore

Banjo bolts 3527, 3528, 3529 and 3524 are only usable in association with the corresponding bodies for modular construction 3538, 3539 and 3549.

Thread and passage size for part numbers 3527, 3528, 3529 and 3524.

Thread	M5x0.8	G1/8	G1/4	G3/8	G1/2
	2.5	5.5	8.5	11	13



# Modular Plug-In Connectors

These connectors allow a **maximum number of tube connections** in a **minimum of space**. Parker Legris offers an **ergonomic solution** to enable quick connection for the most complex installations.

## Product Advantages

**Panel-Mounted** | Panel mounted to a machine or bulkhead  
 Reduced risk of incorrect assembly  
 Possible to connect in-line  
 Plated metal joiners and clips for reinforcement

**In-Line** | Locating pin prevents incorrect assembly  
 Cap guides the tubes and protects connections  
 Aluminium and technical polymer components  
 Bulkhead mountable  
 Customised multi-connectors upon request

**DIN Rail** | Used alongside electrical connectors  
 Pressure indication  
 Can be clipped side-by-side into a DIN rail profile [ or  $\Omega$   
 Channels or slots for labels for tube identification



Robotics  
 Automotive Process  
 Pneumatics  
 Semi-Conductors  
 Textile  
 Packaging

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: please consult us
<b>Working Pressure</b>	Vacuum to 10 bar
<b>Working Temperature</b>	-20°C to +80°C

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

- Multi-connectors:**
- panel-mounted: zinc-plated steel, technical polymer
  - in-line: aluminium, technical polymer
  - DIN rail: technical polymer

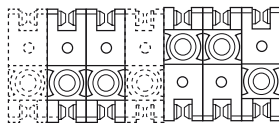
Connections: LF 3000®



**Silicone-free**

## Installation Configurations

### Panel-Mounted



Standard assembly      Customised assembly

A box contains:

- 10 units
- 20 joining clips and 4 end pins
- 4 mounting brackets
- 4 coupling clips
- 1 dismantling tool

The module is constructed from a number of symmetrical components connected by joining clips. A coupling clip locks the module closed. A dismantling tool allows disconnection.

Maximum 5 modules recommended for the mating module; the fixed module is not limited.

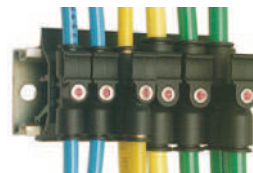
### In-Line



### Regulations


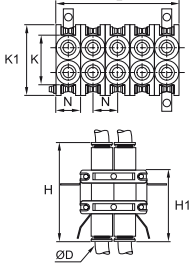

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes  
 DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 1907/2006 (REACH)

### DIN Rail Connector




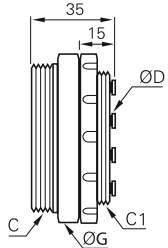

# Modular Plug-In Connectors

## 3300 Modular Plug-In Connector

	<p>Technical polymer, NBR</p> 	<p><b>ØD</b> </p>	<b>B</b>	<b>H</b>	<b>H1</b>	<b>K</b>	<b>K1</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>N</b>	<b>kg</b>	
		4	3300 04 00	21	40.5	29.5	32	20	55	22	6	11	0.078
		6	3300 06 00	28	48	38.5	39	27.5	70	28	7.5	14	0.213
		8	3300 08 00	28	50	39	39	27.5	70	28	7.5	14	0.025


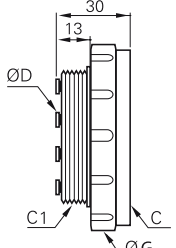

Clearance hole for Ø3 mm screw

## 3320 Multi-Connector Male Screw Body

	<p>Technical polymer, NBR</p> 	<p><b>ØD</b></p>	<b>C</b>	<b>C1</b>		<b>Number of Outlets</b>	<b>G</b>	<b>kg</b>
		4	M38x1.5	M32x1.5	3320 04 00 02	2	42	0.046
			M46x1.5	M40x1.5	3320 04 00 04	4	50	0.070
			M46x1.5	M40x1.5	3320 04 00 07	7	50	0.072
			M65x1.5	M58x1.5	3320 04 00 12	12	70	0.136
		6	M38x1.5	M32x1.5	3320 06 00 02	2	42	0.050
			M46x1.5	M40x1.5	3320 06 00 04	4	50	0.070
			M46x1.5	M40x1.5	3320 06 00 07	7	50	0.070
			M38x1.5	M32x1.5	3320 08 00 02	2	45	0.050


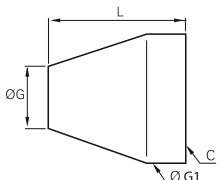

The number of male body outlets must correspond to the same number of outlets on the female body.

## 3321 Multi-Connector Female Screw Body

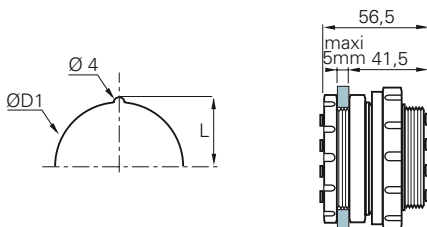
	<p>Technical polymer, NBR</p> 	<p><b>ØD</b></p>	<b>C</b>	<b>C1</b>		<b>Number of Outlets</b>	<b>G</b>	<b>kg</b>
		4	M38x1.5	M32x1.5	3321 04 00 02	2	45	0.040
			M46x1.5	M40x1.5	3321 04 00 04	4	55	0.065
			M46x1.5	M40x1.5	3321 04 00 07	7	55	0.063
			M65x1.5	M58x1.5	3321 04 00 12	12	75	0.124
		6	M38x1.5	M32x1.5	3321 06 00 02	2	45	0.043
			M46x1.5	M40x1.5	3321 06 00 04	4	55	0.066
			M46x1.5	M40x1.5	3321 06 00 07	7	55	0.064
			M38x1.5	M32x1.5	3321 08 00 02	2	45	0.039

The number of female body outlets must correspond to the same number of outlets on the male body.

## 3329 Multi-Connector Screw Cap

	<p>Technical polymer</p> 	<p><b>C</b></p>		<b>Number of Outlets</b>	<b>G</b>	<b>G1</b>	<b>L</b>	<b>kg</b>
		M32x1.5	3329 00 01	2	32	42	50	0.043
		M40x1.5	3329 00 02	4-7	35	50	55	0.058
		M58x1.5	3329 00 03	12	34	70	70	0.139

### Overall Dimensions for Bulkhead Mounting



Number of Outlets	L	ØD1
2	17	32.5
4-7	21	40.5
12	30.3	58.5

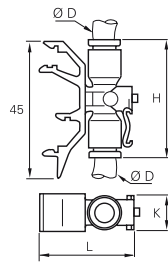
# Modular Plug-In Connectors

**3379**

## DIN Rail Connector for 2 Tubes



Technical polymer, NBR



**ØD**



**H K L kg**

4	<a href="#">3379 04 00</a>	34.5	11	39.5	0.016
6	<a href="#">3379 06 00</a>	34.5	11	39.5	0.026
8	<a href="#">3379 08 00</a>	46	13	44.5	0.034

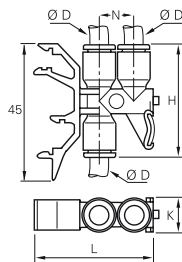
Start pressure test point on the system

**3381**

## DIN Rail Connector for 3 Tubes



Technical polymer, NBR



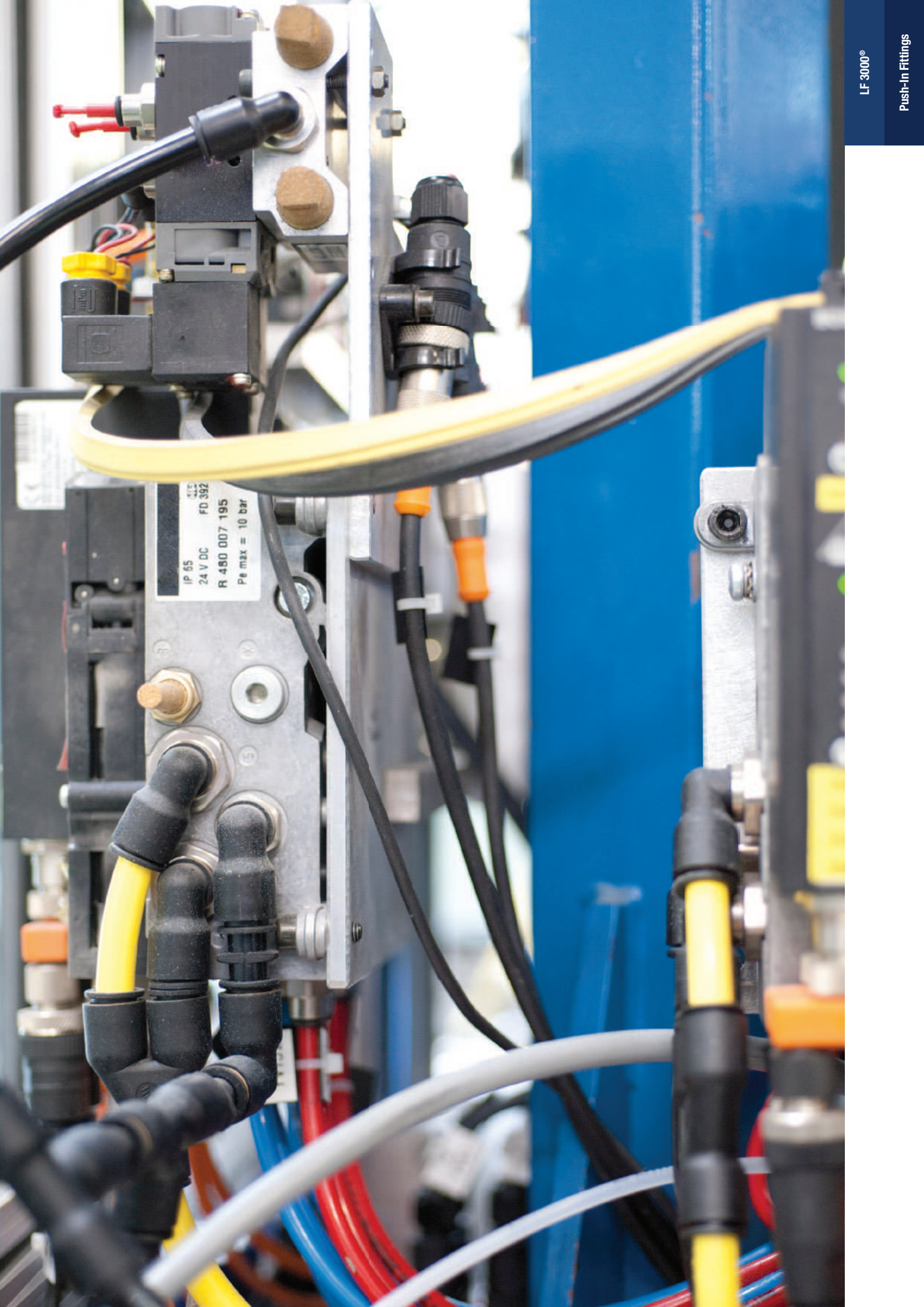
**ØD**



**H K L N kg**

4	<a href="#">3381 04 00</a>	36.5	11	39.5	11.5	0.012
6	<a href="#">3381 06 00</a>	36.5	11	39.5	11.5	0.008
8	<a href="#">3381 08 00</a>	46	13	44.5	14.5	0.013

Start pressure test point on the system



IP 65  
24 V DC  
R 480 007 195  
Pe max = 10 bar

# Self-Sealing and Oscillating Fittings

Parker Legris has developed these two **innovative** push-in fittings in order to integrate various functions and allow **quick installation** on pneumatic circuits.

## Product Advantages

### Self-Sealing Fittings

Prevents fluid flow when there is no tube connected  
Circuits may remain pressurised when being checked and maintained  
When connected, the compressed air flow is restored in both directions

### Oscillating Fittings

Rotation matched to cylinder rod stroke  
Prevents tube wear due to excessive flexing  
Optimum reliability and durability  
Simplifies circuit assembly



Robotics  
Automotive Process  
Pneumatics  
Semi-Conductors  
Textile  
Packaging

Applications

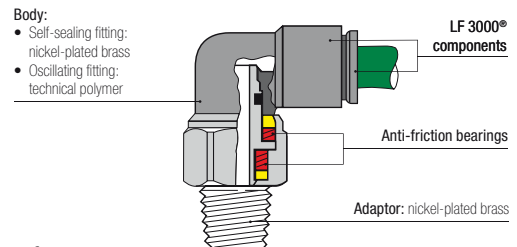
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: please consult us
<b>Working Pressure</b>	Vacuum to 20 bar (10 bar: self-sealing fitting)
<b>Working Temperature</b>	-20°C to +80°C

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

#### Swivel Fitting



#### Silicone-free

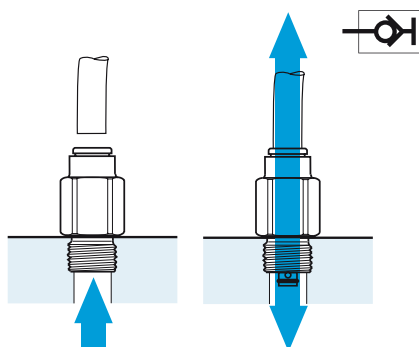
### Regulations

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes  
DI: 97/23/EC (PED)

DI: 2002/95/EC (RoHS),  
2011/65/EC  
DI: 1907/2006 (REACH)

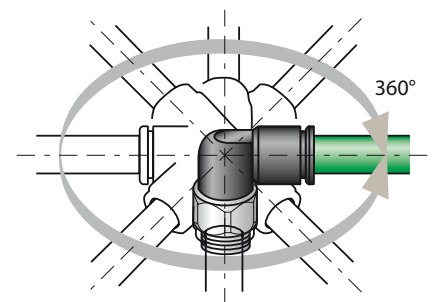
## Installation Configurations

### Self-Sealing Fitting




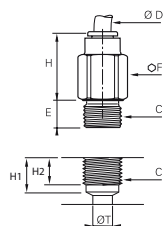

### Oscillating Fitting

Tube O.D. (mm)	Torque (daN.m)	Max. Rotation Speed (turn/min.)
4	<math>2.5 \cdot 10^{-3}</math>	190
6	<math>4 \cdot 10^{-3}</math>	160
8	<math>7 \cdot 10^{-3}</math>	120
10	<math>11 \cdot 10^{-3}</math>	90
12	<math>16 \cdot 10^{-3}</math>	80


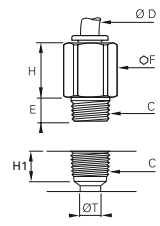



# Self-Sealing and Oscillating Fittings


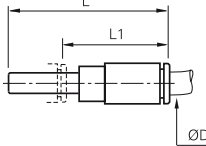

## 3391 Self-Sealing Stud Fitting, Male BSPP Thread

	Nickel-plated brass, NBR 	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>ØT</b>	<b>kg</b>
		4	G1/8	<a href="#">3391 04 10</a>	5	13	18	7.5	6	5	0.017
		6	G1/8	<a href="#">3391 06 10</a>	5	14	19.5	9	6	7.5	0.019
		8	G1/8	<a href="#">3391 08 10</a>	5	14	29.5	10	6	7.5	0.025
			G1/4	<a href="#">3391 08 13</a>	5.5	16	25.5	11	8	9	0.032
10	G3/8	<a href="#">3391 10 17</a>	5.5	20	27.5	13	11	10	0.055		
Maximum working pressure: 10 bar											


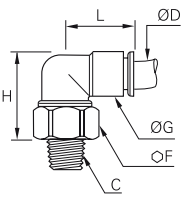

## 3091 Self-Sealing Stud Fitting, Male BSPT Thread

	Nickel-plated brass, NBR 	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>ØT</b>	<b>kg</b>	
		4	R1/8	<a href="#">3091 04 10</a>	7.5	12	18	9.5	5	0.015	
		6	R1/8	<a href="#">3091 06 10</a>	7.5	13	19.5	9.5	7.5	0.015	
		8	R1/8	<a href="#">3091 08 10</a>	6.5	14	25	10.5	7.5	0.024	
			R1/4	<a href="#">3091 08 13</a>	11	14	25.5	13.5	9	0.021	
10	R3/8	<a href="#">3091 10 17</a>	11.5	17	27.5	14	10	0.035			
Maximum working pressure: 10 bar Pre-coated thread											


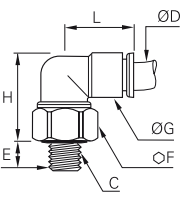

## 3160 Self-Sealing Plug-In Fitting

	Technical polymer, NBR 	<b>ØD</b>		<b>L</b>	<b>L1</b>	<b>kg</b>
		4	<a href="#">3160 04 00</a>	46	33.5	0.006
		6	<a href="#">3160 06 00</a>	53.5	31	0.009
		8	<a href="#">3160 08 00</a>	58	31	0.014

## 3159 Oscillating Elbow, Male BSPT Thread

	Technical polymer, nickel-plated brass, NBR 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>
		4	R1/8	<a href="#">3159 04 10</a>	12	11	22	17.5	0.012
			R1/8	<a href="#">3159 06 10</a>	14	14	26.5	20.5	0.014
		6	R1/4	<a href="#">3159 06 13</a>	14	14	23.5	20.5	0.022
			R1/8	<a href="#">3159 08 10</a>	17	16	32	23.5	0.036
		8	R1/4	<a href="#">3159 08 13</a>	17	16	29	23.5	0.037
			R3/8	<a href="#">3159 08 17</a>	17	16	25	23.5	0.033
		10	R1/4	<a href="#">3159 10 13</a>	19	19.5	37.5	29	0.053
			R3/8	<a href="#">3159 10 17</a>	19	19.5	33.5	29	0.045
		12	R1/4	<a href="#">3159 12 13</a>	21	22	44.5	33.5	0.080
			R3/8	<a href="#">3159 12 17</a>	21	22	41	33.5	0.070
		Pre-coated thread							

## 3189 Oscillating Elbow, Male BSPP and Metric Thread

	Technical polymer, nickel-plated brass, NBR 	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>
		4	M5x0.8	<a href="#">3189 04 19</a>	3	12	11	24.5	17.5	0.012
			G1/8	<a href="#">3189 04 10</a>	5	13	11	23	17.5	0.013
			M5x0.8	<a href="#">3189 06 19</a>	3	12	14	27.5	20.5	0.017
		6	G1/8	<a href="#">3189 06 10</a>	5	14	14	27	20.5	0.019
			G1/4	<a href="#">3189 06 13</a>	5.5	16	14	25.5	20.5	0.023
			G1/8	<a href="#">3189 08 10</a>	5	17	16	31.5	23.5	0.034
		8	G1/4	<a href="#">3189 08 13</a>	5.5	17	16	31	23.5	0.034
			G3/8	<a href="#">3189 08 17</a>	5.5	20	16	29.5	23.5	0.042
			G1/4	<a href="#">3189 10 13</a>	5.5	19	19.5	39	29	0.058
		10	G3/8	<a href="#">3189 10 17</a>	5.5	20	19.5	37	29	0.050
			G1/4	<a href="#">3189 12 13</a>	5.5	21	22	46.5	33.5	0.074
		12	G3/8	<a href="#">3189 12 17</a>	5.5	21	22	45.5	33.5	0.072

# Accessories for Push-In Fittings

Parker Legris has designed these different accessories to improve **safety** and circuit **identification**.

## Product Advantages

**Safety**

- Protection of operators and equipment
- Prevents accidental disconnection
- Disconnection only possible with tooling
- Resistance to grease and cleaning agents

**Ergonomic**

- Colour-coding for fluid circuit identification (6 colours)
- Setting and fixing of your circuits thanks to clips and release button covers
- Easy disconnection with tool where access is difficult
- Adapted to meet all installation configurations



Applications

- Robotics
- Automotive Process
- Pneumatics
- Semi-Conductors
- Textile
- Water Treatment
- Beverage Dispensers

## Technical Characteristics

<b>Compatible Ranges</b>	LF 3000®, LIQUIfit®
<b>Working Temperature</b>	-20°C to +95°C
<b>Materials</b>	Tamper-proof safety clip, release button cover, clip: technical polymer Reducer and plug: nickel-plated brass

## Installation Process

### Tamper-Proof Safety Clip



### Coloured Release Button Covers

Coloured release button covers can be mounted on LF 3000® and LIQUIfit® fittings, supplied fitted with manual release buttons.

5 colours are available and allows colour coding to be used throughout circuits.



### Disconnection Tool

In cases where access is difficult, this tool can be particularly useful.



### Clip Strips

Clips are also designed to fix LF 3000® fittings in series within a minimum of space.



The complete range of accessories can be found in Chapter 9.



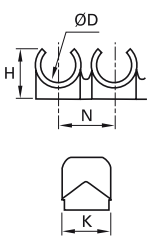


# Accessories for Push-In Fittings

## 3130 Tamper-Proof Safety Clip


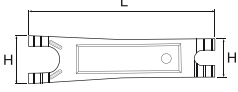
Technical polymer	ØD							H	K	kg
	4	3130 04 01	3130 04 02	3130 04 03	3130 04 04	3130 04 05	3130 04 10	6.6	3	0.001
	6	3130 06 01	3130 06 02	3130 06 03	3130 06 04	3130 06 05	3130 06 10	7.8	3.1	0.001
	8	3130 08 01	3130 08 02	3130 08 03	3130 08 04	3130 08 05	3130 08 10	9.5	4.3	0.001
	10	3130 10 01	3130 10 02	3130 10 03	3130 10 04	3130 10 05	3130 10 10	10.8	4.2	0.002
	12	3130 12 01	3130 12 02	3130 12 03	3130 12 04	3130 12 05	3130 12 10	12.5	5.1	0.003
	14	3130 14 01	3130 14 02	3130 14 03	3130 14 04	3130 14 05	3130 14 10	15	6	0.004

## CLIP Clip Strip for Tubes and Fittings

Technical polymer	ØD		H	K	N	kg
	4	CLIP 04 00	9	13.5	10.5	0.007
	6	CLIP 06 00	10.5	13	10.5	0.004
	8	CLIP 08 00	12.5	10.5	12	0.007
	10	CLIP 10 00	14	12	15	0.005
	12	CLIP 12 00	16.5	14	16.5	0.009
	14	CLIP 14 00	18	16	20.5	0.008







Delivered in boxes of 10 strips of the same diameter (complete with selftapping screws of 95 mm length)

## 3000 Disconnection Tool



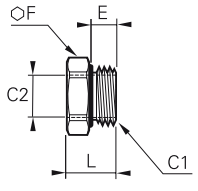
Treated steel	H	H1	L	kg
	25	20	96	0.021
	3000 70 00			

For disconnecting LF 3000® tubing/fittings where access is difficult, we recommend the use of this disconnection tool.

## 3110 Coloured Release Button Covers



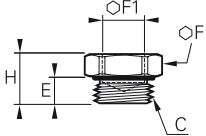
Technical polymer	ØD						kg
	4	3110 04 00	3110 04 02	3110 04 03	3110 04 04	3110 04 05	0.001
	6	3110 06 00	3110 06 02	3110 06 03	3110 06 04	3110 06 05	0.001
	8	3110 08 00	3110 08 02	3110 08 03	3110 08 04	3110 08 05	0.001
	10	3110 10 00	3110 10 02	3110 10 03	3110 10 04	3110 10 05	0.001
	12	3110 12 00	3110 12 02	3110 12 03	3110 12 04	3110 12 05	0.001
	14	3110 14 00	3110 14 02	3110 14 03	3110 14 04	3110 14 05	0.002

## 0178 Reducer, Male/Female BSPP and Metric Thread

Nickel-plated brass, NBR	C1	C2		E	F	L	kg
	M7x1	M5x0.8	0178 55 19	5	10	12	0.005
	G1/8	M5x0.8	0178 10 19	5	13	9	0.006
	G1/4	G1/8	0178 13 10	5.5	16	9.5	0.006
	G3/8	G1/8	0178 17 10	5.5	20	10.5	0.016
	G1/2	G1/4	0178 21 13	5.5	20	10.5	0.011
	G1/2	G3/8	0178 21 17	7.5	24	12.5	0.024
	G3/4	G1/2	0178 27 21	7.5	24	12.5	0.016
	G3/4	G1/2	0178 27 21	7.5	32	13.5	0.035

With integrated O-ring seal

## 0222 Internal Hex Plug, Male BSPP and Metric Thread

Nickel-plated brass, NBR	C		E	F	F1	H	kg
	M5x0.8	0222 19 00	3.5	8	2.5	7	0.002
	M7x1	0222 55 00	5	10	3	8.5	0.003
	G1/8	0222 10 00	5	13	5	8.5	0.006
	G1/4	0222 13 00	5.5	16	6	9.5	0.010
	G3/8	0222 17 00	5.5	20	8	10.5	0.019
	G1/2	0222 21 00	7.5	24	10	12	0.030

With integrated O-ring seal



# LF 3200 (3 mm) Push-In Fittings Range

## Stud Fittings

**3281**  
Metric  
Page 1-41



**3299**  
Metric  
Page 1-41



**3229**  
Metric  
Page 1-41



**3298**  
Metric  
Page 1-41



**3293**  
Metric  
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**3218**  
Metric  
Page 1-42



## Tube-to-Tube Fittings and Accessories

**3206**  
Straight  
Page 1-43



**3202**  
Elbow  
Page 1-43



**3204**  
Tee  
Page 1-43



**3266**  
Reducer  
Page 1-43



**3226**  
Plug  
Page 1-43



# LF 3200 Push-In Fittings (3 mm)

Miniature pneumatic installations are very precise and sensitive systems, having specific operating characteristics. Consequently, Parker Legris has developed this **ergonomic** range of brass push-in fittings for its **mechanical robustness** and **compactness**.

## Product Advantages

<b>Compact &amp; Lightweight</b>	25% smaller than other fittings on the market for optimum actuator dimensions Minimum weight for maximum efficiency Reduces energy consumption and limits actuator wear
<b>Resistance &amp; Performance</b>	All brass components for excellent impact resistance Gripping system with collet for increased robustness and service life Excellent resistance to high operating pressures
<b>Reliability</b>	100% leak-tested in production Date coding to guarantee quality and traceability Ideal for very sensitive applications Corrosion-resistant



**Applications**

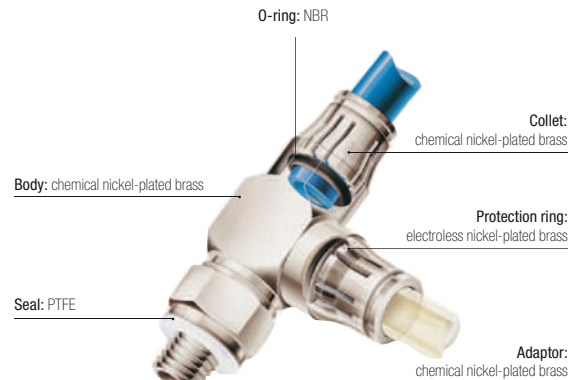
- Pneumatic Panels
- Robotics
- Semi-Conductors
- Textile
- Pneumatics
- Vacuum

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	Vacuum to 20 bar
<b>Working Temperature</b>	-15°C to +80°C
<b>Tightening Torque (daN.m)</b>	0.01 to 0.1

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



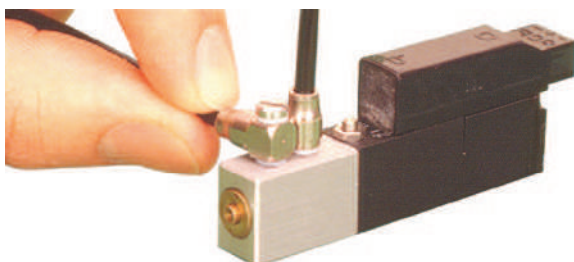
**Silicone-free**

### Regulations

**ISO 14743** ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes

**DI:** 97/23/EC (PED)  
**DI:** 2002/95/EC (RoHS), 2011/65/EC  
**DI:** 94/9/EC (ATEX)  
**RG:** 1907/2006 (REACH)

## Installation Configurations


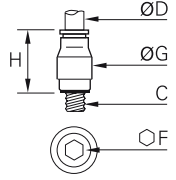



The LF 3200 fitting, connected with a 3 mm polyurethane or antistatic polyurethane tube, is the perfect solution for compact installations:


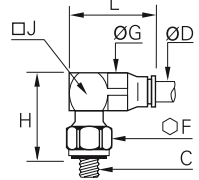

- which are highly stressed
- whose reliability is critical

# Stud Fittings


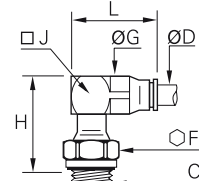

## 3281 Stud Fitting, Male Metric Thread

	<p>Nickel-plated brass, NBR</p> 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		3	M3x0.5	<a href="#">3281 03 09</a>	1.5	6	9.5	0.001
			M5x0.8	<a href="#">3281 03 19</a>	1.5	8	9.5	0.002


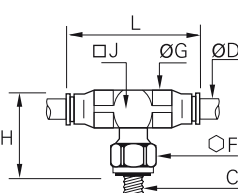

## 3299 Compact Stud Elbow, Male Metric Thread

	<p>Nickel-plated brass, NBR</p> 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		3	M3x0.5	<a href="#">3299 03 09</a>	6	6	13.5	6	13.5	0.004
			M5x0.8	<a href="#">3299 03 19</a>	8	6	13	6	13.5	0.005


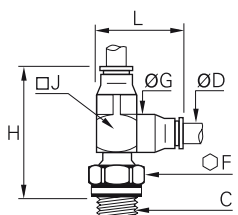

## 3229 Extended Stud Elbow, Male Metric Thread

	<p>Nickel-plated brass, NBR</p> 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		3	M3x0.5	<a href="#">3229 03 09</a>	6	6	16	6	13.5	0.004
			M5x0.8	<a href="#">3229 03 19</a>	8	6	17	6	13.5	0.005

## 3298 Stud Branch Tee, Male Metric Thread

	<p>Nickel-plated brass, NBR</p> 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		3	M3x0.5	<a href="#">3298 03 09</a>	6	6	13.5	6	20.5	0.004
			M5x0.8	<a href="#">3298 03 19</a>	8	6	13	6	20.5	0.005

## 3293 Stud Run Tee, Male Metric Thread

	<p>Nickel-plated brass, NBR</p> 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		3	M3x0.5	<a href="#">3293 03 09</a>	6	6	20	6	13.5	0.004
			M5x0.8	<a href="#">3293 03 19</a>	8	6	20	6	13.5	0.005

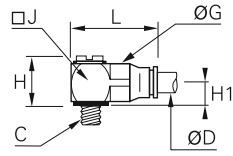
LF 3200: 3 mm


# Stud Fittings

## 3218 Single Banjo, Male Metric Thread




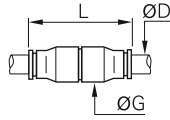

Nickel-plated brass, NBR




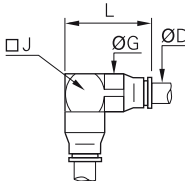

	ØD	C		G	H	H1	J	L	kg
3		M3x0.5	<b>3218 03 09</b>	6	9.5	4	6	12.5	0.002
		M5x0.8	<b>3218 03 19</b>	6	10.5	4.5	8	15	0.005

# Tube-to-Tube Fittings and Accessories


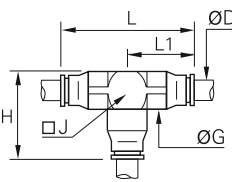

## 3206 Equal Tube-to-Tube Connector

	Nickel-plated brass, NBR		<b>ØD</b>		<b>G</b>	<b>L</b>	<b>kg</b>
			3	<a href="#">3206 03 00</a>	6	17	0.002


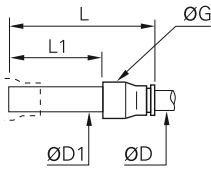

## 3202 Equal Elbow

	Nickel-plated brass, NBR		<b>ØD</b>		<b>G</b>	<b>J</b>	<b>L</b>	<b>kg</b>
			3	<a href="#">3202 03 00</a>	6	6	13.5	0.003


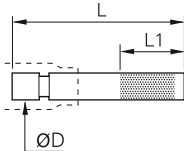

## 3204 Equal Tee

	Nickel-plated brass, NBR		<b>ØD</b>		<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			3	<a href="#">3204 03 00</a>	6	13.5	6	20.5	10.25	0.004

## 3266 Plug-In Reducer

	Nickel-plated brass, NBR, technical polymer		<b>ØD</b>	<b>ØD1</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			3	4	<a href="#">3266 03 04</a>	6	28	19	0.001

## 3226 Blanking Plug

	Nickel-plated brass		<b>ØD</b>		<b>L</b>	<b>L1</b>	<b>kg</b>
			3	<a href="#">3226 03 00</a>	20	10	0.001

# Range of LIQUIfit® Push-In Fittings

## Stud Fittings

### Straights

**6505**  
BSPT  
Page 1-48



**6315**  
BSPT  
Page 1-48



**6353**  
BSPP  
Page 1-49



**6521**  
BSPT  
Page 1-50



### Straights - Inch

**6505**  
NPTF/BSPT  
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**6315**  
NPTF  
Page 1-49



**6353**  
BSPP  
Page 1-49



**6352**  
BSPP  
Page 1-49



**6325**  
UNS  
Page 1-49



**6521**  
NPTF/BSPT  
Page 1-50



### Carstick®

**6300**  
Page 1-50



### Carstick® - Inch

**6300**  
Page 1-50



### Elbows

**6579**  
BSPT  
Page 1-51



**6509**  
BSPT  
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### Elbows - Inch

**6579**  
BSPT/NPTF  
Page 1-51



**6509**  
BSPT/NPTF  
Page 1-52



### Tees

**6508**  
BSPT  
Page 1-52



**6503**  
BSPT  
Page 1-53



### Tees - Inch

**6508**  
BSPT/NPTF  
Page 1-53



**6503**  
BSPT/NPTF  
Page 1-53



### Plugs

**6355**  
BSPT  
Page 1-53



## Tube-to-Tube Fittings

### Straight

**6306**  
Page 1-54



### Straight - Inch

**6306**  
Page 1-54



### Elbow

**6302**  
Page 1-54



### Elbow - Inch

**6302**  
Page 1-54



### Tee

**6304**  
Page 1-55



### Tee - Inch

**6304**  
Page 1-55



### Y

**6340**  
Page 1-55



### Y - Inch

**6340**  
Page 1-55



### Cross

**6307**  
Page 1-56



### Cross - Inch

**6307**  
Page 1-56



## Bulkhead Connectors

### Straight

**6316**  
Page 1-56



### Straight - Inch

**6316**  
Page 1-56



## Plug-In Fittings and Accessories

### Elbows

**6382**  
Page 1-57



**6380**  
Page 1-57



**6382**  
Page 1-57



### Tees

**6383**  
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**6388**  
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**6388**  
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### Accessories

**6366**  
Page 1-58



**6326**  
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**6322**  
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**6351**  
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### Accessories - Inch

**6366**  
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**6368**  
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**6326**  
Page 1-59



**6322**  
Page 1-59



**6351**  
Page 1-59





# Range of LIQUIfit+ Push-In Fittings

## Stud Fittings

Straight - Inch

**6333**

Page 1-63



## Tube-to-Tube Fittings

Straight - Inch

Elbow - Inch

**6336**

Page 1-63



**6332**

Page 1-63



## Plug-In Fittings

Elbow - Inch

**6331**

Page 1-63



## LIQUIfit® and LIQUIfit+ Accessories

**3130**

Page 1-60

**3110**

Page 1-60

**0605**

Page 1-60



## Part Number Construction

Example: **6505 08 17WP2**

**6505**

### Article Type

65XX = LIQUIfit® (without pre-coating)

63XX = LIQUIfit®

633X = LIQUIfit+

### Product Type

XX05 = Male Stud Fitting

XX79 = Fixed Elbow

**08**

### Tube O.D.

4

6

8

10

12

**17**

### Thread Code

10: 1/8 BSPT

13: 1/4 BSPT

17: 3/8 BSPT

21: 1/2 BSPT

27: 3/4 BSPT

**W**

### Colour

W = White

**P2**

### Packaging

P2 = Standard (< 10 pieces)

P3 = High volumes (< 100 pieces)

# LIQUIfit® Push-In Fittings

This "eco-designed" range proposes an **innovative alternative** for water applications; **no fluid contamination** occurs and **environmental protection is guaranteed**. These fittings ensure **reliable and compact** connections for **liquid transfer** applications.

## Product Advantages

### Innovative Technology & Concept

- Ergonomic and aesthetic design
- The most compact product on the market for water, beverages and liquid foodstuffs
- Easy-to-clean external surfaces
- Push-in connection and disconnection
- Full flow
- Use with a pre-prepared metallic tubing
- Gripping system preventing any pumping effect
- Eco-designed (materials, manufacturing process, weight, dimensions and performance)

### Optimal Performance

- Patented sealing technology
- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Wide range of shapes and numerous configurations

### High Performance Material

- Bio-sourced polymer meeting the most severe food process regulations
- Suitable for contact with water and beverages
- Excellent chemical and mechanical resistance, even at high temperature
- Free of bisphenol A and phthalates, conforming with regulations



Hot & Cold Drinks Dispensers  
Neutral Gases  
Cooling Systems  
Food Process  
Water Purification Systems  
Water Dispensers  
Medical

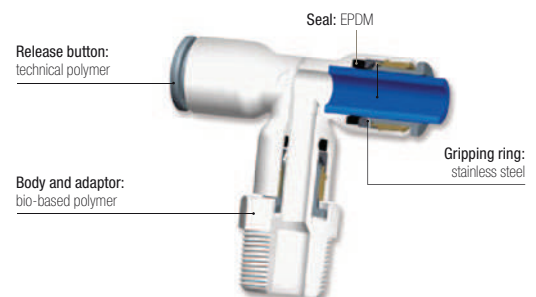
Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Water, beverages, CO <sub>2</sub> (inert use) Chemical fluids: please consult us		
<b>Working Pressure</b>	Vacuum to 16 bar		
<b>Working Temperature</b>	-10°C to +95°C		
<b>Tightening Torques (BSPT/NPTF)</b>	Thread	1/8" and 1/4"	3/8" and 1/2"
	daN.m	0.15	0.30

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  
RG: 1935/2004/EC  
FDA: 21 CFR  
NSF 51 at 95°C  
NSF/ANSI 61 - C HOT

DM 174  
KTW: fittings, on request  
WRAS  
ACS

# Pressure and Temperature of the Different Diameters and Related Products of the LIQUIfit® Range

-10°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+1°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+20°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+40°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

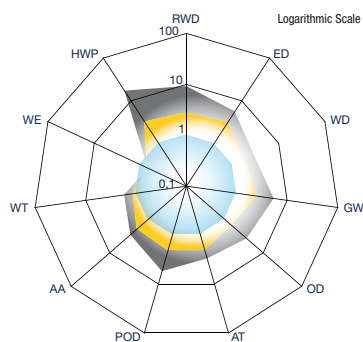
+65°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	10	10
6	1/4	10	10
8	5/16	10	10
10	3/8	7	7
12	1/2	7	7

+95°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	4	4
6	1/4	4	4
8	5/16	4	4
10	3/8	4	4
12	1/2	4	4

LIQUIfit®

## Environmental Footprint

Example: representation of the environmental footprint of an equal tube-to-tube connector



**Double Union**  
 □ Market Standard in POM  
 □ Market Standard in PP  
 □ PARKER LEGRIS

LIQUIfit®  
**Tube-to-Tube Connector**



**Market Standard**  
**Tube-to-Tube Connector**



## Environmental Approach

The Life Cycle Analysis (LCA) offers a true alternative in terms of environmental differentiation.

We carried out a comparative LCA on the market of drinking water between 3 Parker Legris fittings and the standard products on the market.

This analysis relies on ISO 14020, ISO 14025 and IEC PAS 62545 standards and the results are presented in a report approved by an ethics committee (Bureau Veritas).




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

# Stud Fittings


## 6505 Stud Fitting, Male BSPT Thread

Bio-based polymer, EPDM		ØD	C		F	F1	H	kg
4	R1/8	6505 04 10WP2	11	3	18	0.003		
	R1/4	6505 04 13WP2	14	3	18	0.004		
6	R1/8	6505 06 10WP2	11	4	18	0.002		
	R1/4	6505 06 13WP2	14	4	18	0.004		
8	R1/8	6505 08 10WP2	17	6	20	0.004		
	R1/4	6505 08 13WP2	14	6	20	0.004		
10	R3/8	6505 08 17WP2	17	6	20	0.005		
	R1/4	6505 10 13WP2	17	7	21.5	0.005		
	R3/8	6505 10 17WP2	19	7	21.5	0.007		
12	R1/2	6505 10 21WP2	22	7	21.5	0.010		
	R3/8	6505 12 17WP2	19	9	24.5	0.008		
	R1/2	6505 12 21WP2	22	9	24.5	0.012		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating.

## 6505 Stud Fitting, Male NPTF Thread


Inch

Bio-based polymer, EPDM		ØD	C		F	F1	H	kg
1/4	NPT1/8	6505 56 11WP2	17	5/32	17	0.002		
	NPT1/4	6505 56 14WP2	17	5/32	17	0.003		
	NPT3/8	6505 56 18WP2	21.5	1/4	17	0.004		
3/8	NPT1/8	6505 60 11WP2	22.1	5/32	17	0.005		
	NPT1/4	6505 60 14WP2	22	1/4	22	0.006		
	NPT3/8	6505 60 18WP2	22	1/4	22	0.007		
1/2	NPT1/2	6505 60 22WP2	27	1/4	15/16	0.012		
	NPT3/8	6505 62 18WP2	28	3/8	15/16	0.012		
	NPT1/2	6505 62 22WP2	28	3/8	15/16	0.013		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating.  
6505 56 18WP3, 6505 60 11WP3 and 6505 60 22WP3 are also available.


## 6505 Stud Fitting, Male BSPT Thread

Inch

Bio-based polymer, EPDM		ØD	C		F	F1	H	kg
1/4	R1/8	6505 56 10WP2	17	5	17	0.002		
	R1/4	6505 56 13WP2	17	5	17	0.003		
3/8	R1/4	6505 60 13WP2	22	7	22	0.006		
	R3/8	6505 60 17WP2	22	7	22	0.006		
1/2	R1/2	6505 60 21WP2	28	7	28	0.012		
	R3/8	6505 62 17WP2	28	9	28	0.014		
	R1/2	6505 62 21WP2	28	9	28	0.017		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32" (4 mm) and 5/16" (8 mm) also available.  
Thread without pre-coating.

## 6315 Stud Fitting, Female BSPT Thread


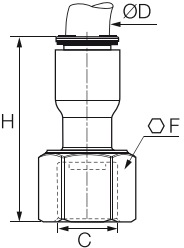

Bio-based polymer, EPDM		ØD	C		F	H	kg
6	R1/8	6315 06 10WP2	13	32	0.003		
	R1/4	6315 06 13WP2	16	33	0.004		
8	R1/4	6315 08 13WP2	16	33.5	0.004		
	R3/8	6315 08 17WP2	20	36	0.009		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

# Stud Fittings


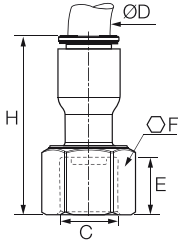

## 6315 Stud Fitting, Female NPTF Thread

Inch

		<b>ØD</b> <b>C</b> 	<b>F</b>	<b>H</b>	<b>kg</b>
		1/4   NPT1/4 <a href="#">6315 56 14WP2</a>	11/16	30	0.003
		3/8   NPT3/8 <a href="#">6315 60 18WP2</a>	13/16	36	0.007

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).


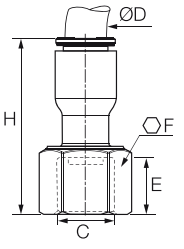

## 6353 Tap Connector Cone Type, Female BSPP Thread

		<b>ØD</b> <b>C</b> 	<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		6   G3/4 <a href="#">6353 06 27WP2</a>	10	32	32	0.011
		8   G3/4 <a href="#">6353 08 27WP2</a>	10	32	40.5	0.017
		10   G1/2 <a href="#">6353 10 21WP2</a>	12	27	36	0.011

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6353 Tap Connector Cone Type, Female BSPP Thread


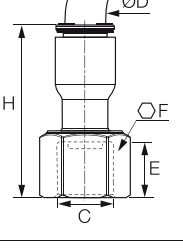

Inch

		<b>ØD</b> <b>C</b> 	<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		1/4   G3/4 <a href="#">6353 56 27WP2</a>	10	32	31	0.006
		3/8   G1/2 <a href="#">6353 60 21WP2</a>	12	27	36	0.011
		G3/4 <a href="#">6353 60 27WP2</a>	10	32	41	0.018
		1/2   G3/4 <a href="#">6353 62 27WP2</a>	10	32	44.5	0.014

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6352 Stud Fitting Flat Type, Female BSPP Thread


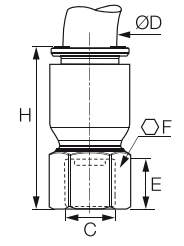

Inch

		<b>ØD</b> <b>C</b> 	<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		5/16   G1/2 <a href="#">6352 08 21WP2</a>	10.5	27	37	0.009
		G5/8 <a href="#">6352 08 23WP2</a>	10.5	29	32	0.013
		3/8   G3/8 <a href="#">6352 60 17WP2</a>	12	22	36	0.008
		G1/2 <a href="#">6352 60 21WP2</a>	12	27	36	0.011
		1/2   G5/8 <a href="#">6352 62 23WP2</a>	10.5	29	32	0.013

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6325 Faucet Connector, Female UNS Thread

Inch

		<b>ØD</b> <b>C</b> 	<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		1/4   UNS7/16-24 <a href="#">6325 56 133WP2</a>	7	9/16	31	0.002
		3/8   UNS7/16-24 <a href="#">6325 60 133WP2</a>	7	9/16	32	0.004

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

# Stud Fittings

## 6521 Stud Standpipe, Male BSPT Thread

	Bio-based polymer		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>H</b>	<b>kg</b>
			6	R1/8	<a href="#">6521 06 10WP2</a>	13	19	0.002
				R1/4	<a href="#">6521 06 13WP2</a>	14	19	0.003
				R3/8	<a href="#">6521 06 17WP2</a>	17	19	0.004
			8	R1/8	<a href="#">6521 08 10WP2</a>	19	23	0.003
				R1/4	<a href="#">6521 08 13WP2</a>	19	23	0.004
				R3/8	<a href="#">6521 08 17WP2</a>	19	23	0.004
			10	R1/4	<a href="#">6521 10 13WP2</a>	19	25	0.004
				R3/8	<a href="#">6521 10 17WP2</a>	19	25	0.005
				R1/2	<a href="#">6521 10 21WP2</a>	22	25	0.008
			12	R3/8	<a href="#">6521 12 17WP2</a>	22	28	0.005
				R1/2	<a href="#">6521 12 21WP2</a>	22	28	0.007

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating.

## 6521 Stud Standpipe, Male NPTF Thread

Inch

	Bio-based polymer		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>H</b>	<b>kg</b>
			1/4	NPT1/8	<a href="#">6521 56 11WP2</a>	1/2	19	0.001
				NPT1/4	<a href="#">6521 56 14WP2</a>	1/2	19	0.002
				NPT3/8	<a href="#">6521 56 18WP2</a>	3/4	19.5	0.004
			3/8	NPT1/4	<a href="#">6521 60 14WP2</a>	3/4	25	0.004
				NPT3/8	<a href="#">6521 60 18WP2</a>	3/4	25	0.004
			1/2	NPT3/8	<a href="#">6521 62 18WP2</a>	15/16	31	0.010
				NPT1/2	<a href="#">6521 62 22WP2</a>	15/16	32.5	0.013

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating.

## 6521 Stud Standpipe, Male BSPT Thread

Inch

	Bio-based polymer		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>H</b>	<b>kg</b>
			1/4	R1/8	<a href="#">6521 56 10WP2</a>	14	19	0.001
				R1/4	<a href="#">6521 56 13WP2</a>	14	19	0.002
				R3/8	<a href="#">6521 56 17WP2</a>	17	19	0.004
			3/8	R1/4	<a href="#">6521 60 13WP2</a>	19	25	0.004
				R3/8	<a href="#">6521 60 17WP2</a>	19	25	0.004
			1/2	R3/8	<a href="#">6521 62 17WP2</a>	24	31.5	0.006
				R1/2	<a href="#">6521 62 21WP2</a>	24	31.5	0.009

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.  
Thread without pre-coating.

## 6300 LIQUIfit® Cartridge

	Brass, EPDM		<b>ØD</b>		<b>G</b>	<b>H</b>	<b>kg</b>
			4	<a href="#">6300 04 00</a>	8	10	0.002
			6	<a href="#">6300 06 00</a>	10	11.5	0.002
			8	<a href="#">6300 08 00</a>	13	15	0.003
			10	<a href="#">6300 10 00</a>	15.5	17	0.005
			12	<a href="#">6300 12 00</a>	18.5	19.5	0.010

50 cartridges per Carstick®  
Cavity dimensions are available in Chapter 2.

## 6300 LIQUIfit® Cartridge


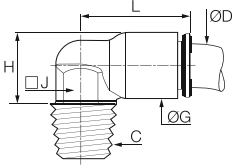

Inch

	Brass, EPDM		<b>ØD</b>		<b>G</b>	<b>H</b>	<b>kg</b>
			1/4	<a href="#">6300 56 00</a>	10.5	12.5	0.002
			3/8	<a href="#">6300 60 00</a>	15.5	17	0.005
			1/2	<a href="#">6300 62 00</a>	22	23	0.011

50 cartridges per Carstick®  
5/32" (4 mm) and 5/16" (8 mm) also available.  
Cavity dimensions are available in Chapter 2.


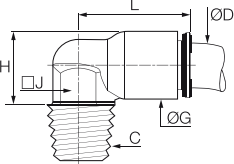

# Stud Fittings

## 6579 Fixed Elbow, Male BSPT Thread

		Bio-based polymer, EPDM	<b>ØD</b> <b>C</b> 	<b>G</b> <b>H</b> <b>J</b> <b>L</b> <b>kg</b>
			R1/8 <a href="#">6579 06 10WP2</a>	11   14   10   19   0.002
			R1/4 <a href="#">6579 06 13WP2</a>	11   14   10   19   0.003
			R3/8 <a href="#">6579 06 17WP2</a>	11   14   10   19   0.004


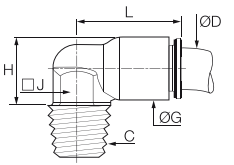

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating.

## 6579 Fixed Elbow, Male NPTF Thread Inch

		Bio-based polymer, EPDM	<b>ØD</b> <b>C</b> 	<b>G</b> <b>H</b> <b>J</b> <b>L</b> <b>kg</b>
			NPT1/8 <a href="#">6579 56 11WP2</a>	11   22   3/8   18   0.009
			NPT1/4 <a href="#">6579 56 14WP2</a>	11   26   3/8   18   0.003
			NPT3/8 <a href="#">6579 56 18WP2</a>	11   26.5   3/8   18   0.004
			NPT1/4 <a href="#">6579 60 14WP2</a> NPT3/8 <a href="#">6579 60 18WP2</a>	16   32   1/2   26   0.006 16   32   1/2   26   0.006


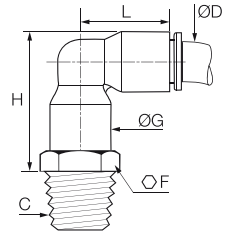

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating.

## 6579 Fixed Elbow, Male BSPT Thread Inch

		Bio-based polymer, EPDM	<b>ØD</b> <b>C</b> 	<b>G</b> <b>H</b> <b>J</b> <b>L</b> <b>kg</b>
			R1/8 <a href="#">6579 56 10WP2</a>	11   22   10   18   0.002
			R1/4 <a href="#">6579 56 13WP2</a>	11   26   10   18   0.003
			R3/8 <a href="#">6579 56 17WP2</a>	11   26   10   18   0.004
			R1/4 <a href="#">6579 60 13WP2</a> R3/8 <a href="#">6579 60 17WP2</a>	16   31.5   13   26   0.006 16   32   13   26   0.006

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating.

## 6509 Stud Elbow, Male BSPT Thread

		Bio-based polymer, EPDM	<b>ØD</b> <b>C</b> 	<b>F</b> <b>G</b> <b>H</b> <b>L</b> <b>kg</b>
			R1/8 <a href="#">6509 06 10WP2</a>	13   10.5   28   24   0.037
			R1/4 <a href="#">6509 06 13WP2</a>	14   10.5   28   24   0.007
			R3/8 <a href="#">6509 06 17WP2</a>	17   10.5   28   24   0.008
			R1/8 <a href="#">6509 08 10WP2</a>	19   13.5   34   29.5   0.010
			R1/4 <a href="#">6509 08 13WP2</a>	19   13.5   34   29.5   0.011
			R3/8 <a href="#">6509 08 17WP2</a>	19   13.5   34   29.5   0.011
			R1/4 <a href="#">6509 10 13WP2</a>	19   16   38   34.5   0.019
			R3/8 <a href="#">6509 10 17WP2</a>	19   16   38   34.5   0.020
			R1/2 <a href="#">6509 10 21WP2</a>	22   16   38   34.5   0.023
			R3/8 <a href="#">6509 12 17WP2</a>	22   19   44   40   0.022
			R1/2 <a href="#">6509 12 21WP2</a>	22   19   44   40   0.024

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating; the body swivels for positioning purposes.

### Complementary LIQUIfit® Range Products

The other LIQUIfit® range products are presented in the corresponding chapters of this catalogue:

#### Technical Tubing and Hose

##### Advanced PE

P. 3-26



#### Function Fittings

##### Non-Return Valves

P. 4-44



#### Industrial Ball Valves

##### LIQUIfit® Ball Valves

P. 6-34



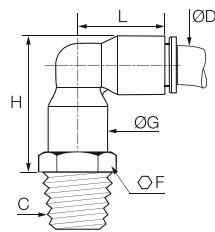
# Stud Fittings

## 6509 Elbow, Male NPTF Thread

Inch



Bio-based polymer, EPDM



ØD	C		F	G	H	L	kg
1/4	NPT1/8	6509 56 11WP2	1/2	11	28	23.5	0.003
	NPT1/4	6509 56 14WP2	9/16	11	28	23.5	0.004
	NPT3/8	6509 56 18WP2	3/4	11	28.5	23.5	0.006
3/8	NPT1/4	6509 60 14WP2	3/4	16	38	34	0.010
	NPT3/8	6509 60 18WP2	3/4	16	38	34	0.011
1/2	NPT3/8	6509 62 18WP2	15/16	22	50.5	46.5	0.024
	NPT1/2	6509 62 22WP2	15/16	22	51.5	46.5	0.027

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

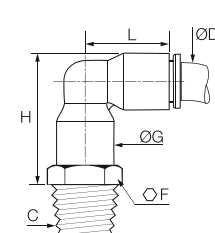
Thread without pre-coating; the body swivels for positioning purposes.

## 6509 Elbow, Male BSPT Thread

Inch



Bio-based polymer, EPDM



ØD	C		F	G	H	L	kg
1/4	R1/8	6509 56 10WP2	14	11	28	23.5	0.003
	R1/4	6509 56 13WP2	14	11	28	23.5	0.004
	R3/8	6509 56 17WP2	17	11	28	23.5	0.006
3/8	R1/4	6509 60 13WP2	19	16	38	34	0.010
	R3/8	6509 60 17WP2	19	16	38	34	0.011
1/2	R3/8	6509 62 17WP2	24	22	50.5	46.5	0.024
	R1/2	6509 62 21WP2	24	22	50.5	46.5	0.027

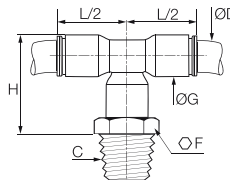
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.

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

## 6508 Branch Tee, Male BSPT Thread



Bio-based polymer, EPDM



ØD	C		F	G	H	L/2	kg
6	R1/8	6508 06 10WP2	13	10.5	28	18	0.008
	R1/4	6508 06 13WP2	14	10.5	28	18	0.009
	R3/8	6508 06 17WP2	17	10.5	28	18	0.010
8	R1/8	6508 08 10WP2	19	13.5	34	23	0.012
	R1/4	6508 08 13WP2	19	13.5	34	23	0.013
	R3/8	6508 08 17WP2	19	13.5	34	23	0.013
10	R1/4	6508 10 13WP2	19	16	38	26.5	0.018
	R3/8	6508 10 17WP2	19	16	38	26.5	0.019
	R1/2	6508 10 21WP2	22	16	38	26.5	0.022
12	R3/8	6508 12 17WP2	22	19	44	31	0.024
	R1/2	6508 12 21WP2	22	19	44	31	0.026

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

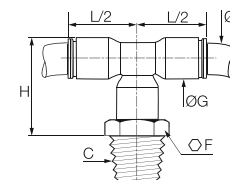
Thread without pre-coating; the body swivels for positioning purposes.

## 6508 Branch Tee, Male NPTF Thread

Inch



Bio-based polymer, EPDM



ØD	C		F	G	H	L/2	kg
1/4	NPT1/8	6508 56 11WP2	1/2	11	28	18	0.004
	NPT1/4	6508 56 14WP2	9/16	11	28	18	0.005
	NPT3/8	6508 56 18WP2	3/4	11	29	18	0.007
3/8	NPT1/4	6508 60 14WP2	3/4	16	38	26	0.013
	NPT3/8	6508 60 18WP2	3/4	16	38	26	0.013
1/2	NPT3/8	6508 62 18WP2	15/16	22	50	35.5	0.031
	NPT1/2	6508 62 22WP2	15/16	22	51	35.5	0.034

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).


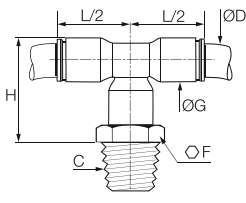

Thread without pre-coating; the body swivels for positioning purposes.



# Stud Fittings


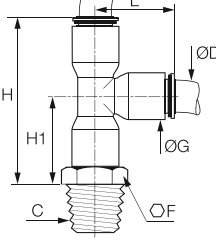

## 6508 Branch Tee, Male BSPT Thread

Inch

			<b>ØD</b>	<b>C</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>L/2</b>	<b>kg</b>
			R1/8	<a href="#">6508 56 10WP2</a>	13	11	28	18	0.004
1/4	R1/4	<a href="#">6508 56 13WP2</a>	14	11	28	18	0.005		
	R3/8	<a href="#">6508 56 17WP2</a>	17	11	28	18	0.007		
3/8	R1/4	<a href="#">6508 60 13WP2</a>	19	16	38	26	0.013		
	R3/8	<a href="#">6508 60 17WP2</a>	19	16	38	26	0.013		
1/2	R3/8	<a href="#">6508 62 17WP2</a>	24	22	50	35.5	0.032		
	R1/2	<a href="#">6508 62 21WP2</a>	24	22	50	35.5	0.032		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.  
Thread without pre-coating; the body swivels for positioning purposes.


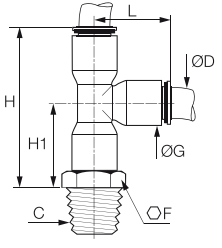

## 6503 Run Tee, Male BSPT Thread

			<b>ØD</b>	<b>C</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
			6	R1/8	<a href="#">6503 06 10WP2</a>	13	10.5	40	22	18.5
6	R1/4	<a href="#">6503 06 13WP2</a>	14	10.5	40	22	18.5	0.009		
	R3/8	<a href="#">6503 06 17WP2</a>	17	10.5	40	22	18.5	0.010		
8	R1/8	<a href="#">6503 08 10WP2</a>	19	13.5	50	27	23	0.012		
	R1/4	<a href="#">6503 08 13WP2</a>	19	13.5	50	27	23	0.013		
8	R3/8	<a href="#">6503 08 17WP2</a>	19	13.5	50	27	23	0.013		
	R1/4	<a href="#">6503 10 13WP2</a>	19	16	56.5	30	26.5	0.018		
10	R3/8	<a href="#">6503 10 17WP2</a>	19	16	56.5	30	26.5	0.019		
	R1/2	<a href="#">6503 10 21WP2</a>	22	16	56.5	30	26.5	0.022		
12	R3/8	<a href="#">6503 12 17WP2</a>	22	19	65.5	34.5	31	0.024		
	R1/2	<a href="#">6503 12 21WP2</a>	22	19	65.5	34.5	31	0.026		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating; the body swivels for positioning purposes.

## 6503 Run Tee, Male NPTF Thread


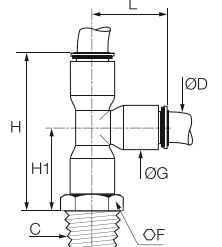

Inch

			<b>ØD</b>	<b>C</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
			1/4	NPT1/8	<a href="#">6303 56 11WP2</a>	1/2	11	40.5	22.5	18
1/4	NPT1/4	<a href="#">6503 56 14WP2</a>	9/16	11	40.5	22.5	18	0.005		
	NPT3/8	<a href="#">6503 56 18WP2</a>	3/4	11	41.5	23	18	0.007		
3/8	NPT1/4	<a href="#">6503 60 14WP2</a>	3/4	16	56	30	26	0.013		
	NPT3/8	<a href="#">6503 60 18WP2</a>	3/4	16	56	30	26	0.013		
1/2	NPT3/8	<a href="#">6503 62 18WP2</a>	15/16	22	75	39.5	35.5	0.031		
	NPT1/2	<a href="#">6503 62 22WP2</a>	15/16	22	76	40.5	35.5	0.035		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Thread without pre-coating; the body swivels for positioning purposes.


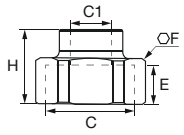

## 6503 Run Tee, Male BSPT Thread

Inch

			<b>ØD</b>	<b>C</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
			1/4	R1/8	<a href="#">6503 56 10WP2</a>	13	11	41.5	22.5	18
1/4	R1/4	<a href="#">6503 56 13WP2</a>	14	11	41.5	22.5	18	0.005		
	R3/8	<a href="#">6503 56 17WP2</a>	17	11	41.5	23	18	0.007		
3/8	R1/4	<a href="#">6503 60 13WP2</a>	19	16	56	30	26	0.013		
	R3/8	<a href="#">6503 60 17WP2</a>	19	16	56	30	26	0.013		
1/2	R3/8	<a href="#">6503 62 17WP2</a>	24	22	75	39.5	35.5	0.032		
	R1/2	<a href="#">6503 62 21WP2</a>	24	22	75	39.5	35.5	0.035		

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.  
Thread without pre-coating; the body swivels for positioning purposes.



## 6355 Unequal Connector, Female BSPP Thread

			<b>C</b>	<b>C1</b>	<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
			G3/4	G1/4	<a href="#">6355 13 27WP2</a>	10	32	23.5

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

# Tube-to-Tube Fittings



## 6306 Equal and Unequal Tube-to-Tube Connector

		Bio-based polymer, EPDM			G	L	kg
	4	4	<a href="#">6306 04 00WP2</a>		8.5	26.5	0.002
		6	<a href="#">6306 04 06WP2</a>		10.5	29	0.002
		8	<a href="#">6306 04 08WP2</a>		13.5	37	0.005
	6	6	<a href="#">6306 06 00WP2</a>		10.5	30	0.004
		8	<a href="#">6306 06 08WP2</a>		13.5	37	0.005
		10	<a href="#">6306 06 10WP2</a>		16	42	0.007
	8	8	<a href="#">6306 08 00WP2</a>		13.5	37	0.004
		10	<a href="#">6306 08 10WP2</a>		16	42	0.007
		12	<a href="#">6306 08 12WP2</a>		19	50	0.012
	10	10	<a href="#">6306 10 00WP2</a>		16	42	0.009
		12	<a href="#">6306 10 12WP2</a>		19	50	0.013
	12	12	<a href="#">6306 12 00WP2</a>		19	50.5	0.009

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).



## 6306 Equal and Unequal Tube-to-Tube Connector

Inch

		Bio-based polymer, EPDM			G	L	kg
	5/16	3/8	<a href="#">6306 08 60WP2</a>		16	42	0.008
		1/2	<a href="#">6306 08 62WP2</a>		22	55	0.018
	1/4	1/4	<a href="#">6306 56 00WP2</a>		11	30	0.002
		5/16	<a href="#">6306 56 08WP2</a>		13.5	37	0.007
	3/8	3/8	<a href="#">6306 56 60WP2</a>		16	41	0.007
		1/2	<a href="#">6306 60 00WP2</a>		16	42	0.006
	3/8	1/2	<a href="#">6306 60 62WP2</a>		22	56	0.020
		1/2	<a href="#">6306 62 00WP2</a>		22	57	0.016

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).



## 6302 Equal and Unequal Elbow

		Bio-based polymer, EPDM			G	L	kg
	4	4	<a href="#">6302 04 00WP2</a>		8.5	19	0.002
		6	<a href="#">6302 04 06WP2</a>		10.5	24	0.004
	6	6	<a href="#">6302 06 00WP2</a>		10.5	24	0.004
		8	<a href="#">6302 06 08WP2</a>		13.5	29.5	0.006
	8	8	<a href="#">6302 08 00WP2</a>		13.5	29	0.004
		10	<a href="#">6302 08 10WP2</a>		16	34.5	0.008
	10	10	<a href="#">6302 10 00WP2</a>		16	34.5	0.005
		12	<a href="#">6302 10 12WP2</a>		19	40.5	0.013
	12	12	<a href="#">6302 12 00WP2</a>		19	40.5	0.010

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6302 Equal and Unequal Elbow


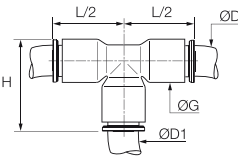

Inch

		Bio-based polymer, EPDM			G	L	kg
	5/16	3/8	<a href="#">6302 08 60WP2</a>		16	34	0.009
		1/4	<a href="#">6302 56 00WP2</a>		11	24	0.005
	1/4	5/16	<a href="#">6302 56 08WP2</a>		13.5	29.5	0.006
		3/8	<a href="#">6302 56 60WP2</a>		16	34	0.008
	3/8	3/8	<a href="#">6302 60 00WP2</a>		16	34	0.006
		1/2	<a href="#">6302 60 62WP2</a>		22	46.5	0.011
	1/2	1/2	<a href="#">6302 62 00WP2</a>		22	46.5	0.017

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

# Tube-to-Tube Fittings


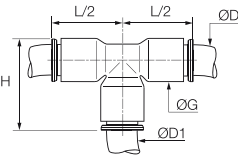

## 6304 Equal Tee

	Bio-based polymer, EPDM		ØD	ØD1		G	H	L/2	kg
			4	4		<a href="#">6304 04 00WP2</a>	8.5	20	15.5
6	6	<a href="#">6304 06 00WP2</a>	10.5	23	18	0.006			
8	8	<a href="#">6304 08 00WP2</a>	13.5	29	22.5	0.006			
10	10	<a href="#">6304 10 00WP2</a>	16	34.5	26.5	0.009			
12	12	<a href="#">6304 12 00WP2</a>	19	40	31	0.014			

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).


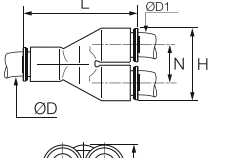

## 6304 Equal and Unequal Tee

Inch

	Bio-based polymer, EPDM		ØD	ØD1		G	H	L/2	kg
			1/4	1/4		<a href="#">6304 56 00WP2</a>	11	24	18
3/8	3/8	<a href="#">6304 60 00WP2</a>	16	34	26	0.009			
	1/4	<a href="#">6304 60 56WP2</a>	16	34	26	0.011			
1/2	1/2	<a href="#">6304 62 00WP2</a>	22	47	36	0.027			
	3/8	<a href="#">6304 62 60WP2</a>	22	47	36	0.009			

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32" (4 mm) and 5/16" (8 mm) also available.


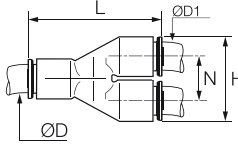

## 6340 Equal Single Y Piece

	Bio-based polymer, EPDM		ØD	ØD1		H	K	L	N	kg
			4	4		<a href="#">6340 04 00WP2</a>	17.5	8.5	30	9
6	6	<a href="#">6340 06 00WP2</a>	21.5	10.5	36.5	11	0.008			
8	8	<a href="#">6340 08 00WP2</a>	28	13.5	44.5	14.5	0.007			
10	10	<a href="#">6340 10 00WP2</a>	33	16	53	17	0.010			
12	12	<a href="#">6340 12 00WP2</a>	39	19	60.5	20	0.025			

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6340 Equal Single Y Piece


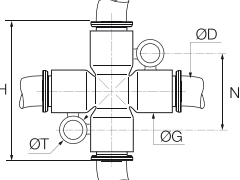

Inch

	Bio-based polymer, EPDM		ØD	ØD1		H	K	L	N	kg
			1/4	1/4		<a href="#">6340 56 00WP2</a>	22	11	36	11.5
3/8	3/8	<a href="#">6340 60 00WP2</a>	33	16	53	17	0.011			
1/2	1/2	<a href="#">6340 62 00WP2</a>	45	22	67	23	0.028			

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32" (4 mm) and 5/16" (8 mm) also available.

# Tube-to-Tube and Bulkhead Connectors


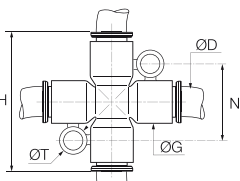

## 6307 Equal Cross

		<b>Bio-based polymer, EPDM</b>	<b>ØD</b>		<b>G</b>	<b>H</b>	<b>N</b>	<b>ØT</b>	<b>kg</b>	

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).


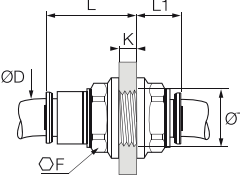

## 6307 Equal Cross

Inch

		<b>Bio-based polymer, EPDM</b>	<b>ØD</b>		<b>G</b>	<b>H</b>	<b>N</b>	<b>ØT</b>	<b>kg</b>	

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32" (4 mm) and 5/16" (8 mm) also available.


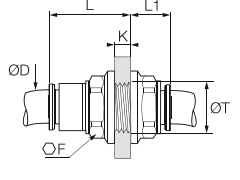

## 6316 Equal Bulkhead Union

		<b>Bio-based polymer, EPDM</b>	<b>ØD</b>		<b>F</b>	<b>K max</b>	<b>L</b>	<b>L1</b>	<b>ØT min</b>	<b>kg</b>	

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6316 Equal Bulkhead Union

Inch

		<b>Bio-based polymer, EPDM</b>	<b>ØD</b>		<b>F</b>	<b>K max</b>	<b>L</b>	<b>L1</b>	<b>ØT min</b>	<b>kg</b>	

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32" (4 mm) and 5/16" (8 mm) also available.

# Plug-In Fittings and Accessories

## 6382 Equal and Unequal Plug-In Elbow

ØD	ØD1	L	G	H	H1	H2	L	kg
4	4		8.5	23	6	15.5	15	0.003
	6		10.5	26.5	7	17	16.5	0.002
6	6		10.5	26.5	7	17	17	0.003
	4		10.5	25	7	15.5	17	0.001
8	8		13.5	33.5	8	21.5	22.5	0.004
	8		13.5	33.5	8	21.5	22.5	0.004
10	10		16	39	9.5	24.5	26	0.007
	10		16	39	9.5	24.5	26.5	0.004
12	12		19	44.5	10	27	30	0.011
	12		19	44.5	10	27	31	0.012

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6382 Equal and Unequal Plug-In Elbow

Inch

ØD	ØD1	L	G	H	H1	H2	L	kg
5/16	3/8		16	39	10	24.5	26	0.009
1/4	1/4		11	30.5	11	18	18	0.002
	3/8		16	39	9	24.5	25.5	0.006
3/8	3/8		16	39	9	24.5	26.5	0.005
1/2	1/2		22	49	13	28.5	36	0.011

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
Equal plug-in elbow: 5/32" (4 mm) and 5/16" (8 mm) also available.

## 6380 Plug-In 45° Equal Elbow

ØD	ØD1	L	G	H	H1	H2	L	kg
4	4		8.5	33.5	19	21	13	0.001
6	6		11	39	21	25	14.5	0.002
8	8		13.5	44	21.5	25.5	19.5	0.006
10	10		16	53	27	32.5	23	0.004
12	12		19	58	27	34	26	0.012

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6383 Plug-In Equal Run Tee

ØD	ØD1	L	G	H	H1	H2	L	kg
4	4		8.5	33	6	15.5	15	0.002
6	6		10.5	38.5	7	17	18	0.002
8	8		13.5	49	8	21.5	23	0.005
10	10		16	57	10.5	25.5	26.5	0.012
12	12		19	65	12.5	27	31	0.016

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6388 Plug-In Equal Branch Tee


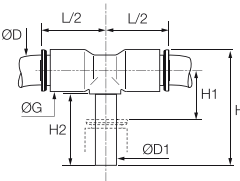

ØD	ØD1	L/2	G	H	H1	H2	L/2	kg
4	4		8.5	25	6	15.5	15	0.005
6	6		10.5	28.5	7	17	16	0.006
8	8		13.5	33.5	8	21.5	23	0.005
10	10		16	41	9.5	24.5	26.5	0.007
12	12		19	46.5	10	27	31	0.016

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

# Plug-In Fittings and Accessories


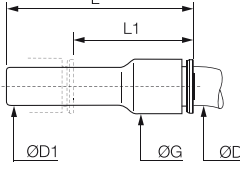

## 6388 Plug-In Equal Branch Tee

Inch

	Bio-based polymer, EPDM 	<b>ØD</b> <b>ØD1</b> 	<b>G</b> <b>H</b> <b>H1</b> <b>H2</b> <b>L/2</b> <b>kg</b>
		1/4   1/4 <a href="#">6388 56 00WP2</a>	11   30.5   11   20   18   0.002
		3/8   3/8 <a href="#">6388 60 00WP2</a>	16   42   12   25   25   0.008
		1/2   1/2 <a href="#">6388 62 00WP2</a>	22   51   13   29   32   0.020

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32" (4 mm) and 5/16" (8 mm) also available.


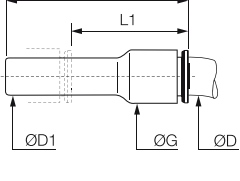

## 6366 Plug-In Reducer

	Bio-based polymer, EPDM 	<b>ØD</b> <b>ØD1</b> 	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
		4   6 <a href="#">6366 04 06WP2</a>	8.5   38   23.5   0.004
		4   8 <a href="#">6366 04 08WP2</a>	8.5   38   19   0.004
		6   8 <a href="#">6366 06 08WP2</a>	10.5   38   20   0.004
		6   10 <a href="#">6366 06 10WP2</a>	10.5   39   17.5   0.002
		8   10 <a href="#">6366 08 10WP2</a>	13.5   48.5   28.5   0.009
		8   12 <a href="#">6366 08 12WP2</a>	13.5   48.5   24.5   0.004
		10   12 <a href="#">6366 10 12WP2</a>	16   52   33.5   0.005
		10   14 <a href="#">6366 10 14WP2</a>	16   53   33.5   0.005
		12   14 <a href="#">6366 12 14WP2</a>	19   55.5   33.5   0.023

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6366 Plug-In Reducer


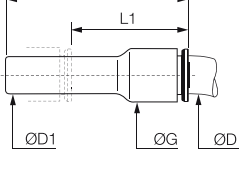

Inch

	Bio-based polymer, EPDM 	<b>ØD</b> <b>ØD1</b> 	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
		1/4   5/16 <a href="#">6366 56 08WP2</a>	11   41   22.5   0.015
		1/4   3/8 <a href="#">6366 56 60WP2</a>	11   41   20.5   0.002
		5/16   3/8 <a href="#">6366 08 60WP2</a>	13.5   48.5   29   0.003
		5/16   1/2 <a href="#">6366 08 62WP2</a>	16   48.5   22   0.007
		3/8   1/2 <a href="#">6366 60 62WP2</a>	16   51   30   0.011

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).


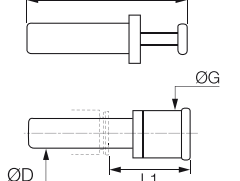

## 6368 Plug-In Increaser

Inch

	Bio-based polymer, EPDM 	<b>ØD</b> <b>ØD1</b> 	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
		3/8   5/16 <a href="#">6368 60 08WP2</a>	16   44   25.5   0.004

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6326 Blanking Plug


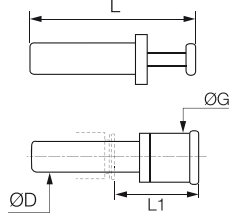

	Bio-based polymer 	<b>ØD</b> 	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
		4 <a href="#">6326 04 00WP2</a>	6   30   15.5   0.001
		6 <a href="#">6326 06 00WP2</a>	8   33   16.5   0.001
		8 <a href="#">6326 08 00WP2</a>	10   35   17.5   0.002
		10 <a href="#">6326 10 00WP2</a>	12   42   21   0.003
		12 <a href="#">6326 12 00WP2</a>	14   45   22   0.004

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

# Plug-In Fittings and Accessories


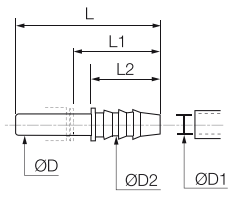

## 6326 Blanking Plug

Inch

	<p>Bio-based polymer</p> 	<b>ØD</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		1/4	<a href="#">6326 56 00WP2</a>	8	36.5	22	0.001
		3/8	<a href="#">6326 60 00WP2</a>	11.6	42.5	22	0.002
		1/2	<a href="#">6326 62 00WP2</a>	14.7	48.5	21.5	0.004

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32 (4 mm) and 5/16 (8 mm) also available


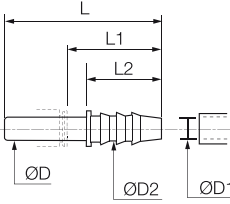

## 6322 Plug-In Barb Connector Inch

	<p>Bio-based polymer</p> 	<b>ØD</b>	<b>ØD1</b>	<b>ØD2</b>		<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		6	4	7	<a href="#">6322 06 04WP2</a>	39	25	17	0.004
		8	6	8.5	<a href="#">6322 08 06WP2</a>	43	25	17	0.005
		10	7	8	<a href="#">6322 10 07WP2</a>	50	29.5	22	0.006
		12	12.5	15.5	<a href="#">6322 12 62WP2</a>	56	32	27.5	0.004

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).


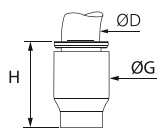

## 6322 Plug-In Barb Connector Inch

Inch

	<p>Bio-based polymer</p> 	<b>ØD</b>	<b>ØD1</b>	<b>ØD2</b>		<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		1/4	0.28	0.32	<a href="#">6322 56 56WP2</a>	39	24.5	17	0.001
			0.33	0.38	<a href="#">6322 60 08WP2</a>	50	29.5	22	0.001
		3/8	0.28	0.32	<a href="#">6322 60 56WP2</a>	45	24.5	17	0.008
			0.40	0.45	<a href="#">6322 60 60WP2</a>	50	29	22	0.002
		1/2	0.40	0.45	<a href="#">6322 62 60WP2</a>	58	37.5	30	0.005

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).


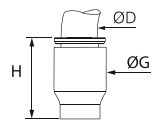

## 6351 End Cap

	<p>Bio-based polymer, EPDM</p> 	<b>ØD</b>		<b>G</b>	<b>H</b>	<b>kg</b>
		4	<a href="#">6351 04 00WP2</a>	8.5	15	0.001
		6	<a href="#">6351 06 00WP2</a>	10.5	17	0.002
		8	<a href="#">6351 08 00WP2</a>	13.5	21.5	0.003
		10	<a href="#">6351 10 00WP2</a>	16	22	0.003
		12	<a href="#">6351 12 00WP2</a>	19	27.5	0.006

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

## 6351 End Cap

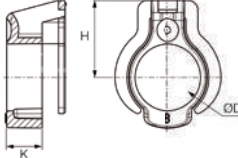
Inch

	<p>Bio-based polymer, EPDM</p> 	<b>ØD</b>		<b>G</b>	<b>H</b>	<b>kg</b>
		1/4	<a href="#">6351 56 00WP2</a>	11	16	0.001
		3/8	<a href="#">6351 60 00WP2</a>	16	22.5	0.003







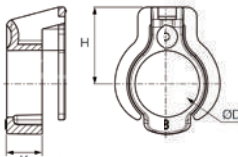
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).  
5/32" (4 mm) and 5/16" (8 mm) also available.

# Accessories

## 3130 Tamper-Proof Safety Clip







Technical Polymer	ØD							H	K	kg
	4	<a href="#">3130 04 01</a>	<a href="#">3130 04 02</a>	<a href="#">3130 04 03</a>	<a href="#">3130 04 04</a>	<a href="#">3130 04 05</a>	<a href="#">3130 04 10</a>	6.60	3.00	0.001
	6	<a href="#">3130 06 01</a>	<a href="#">3130 06 02</a>	<a href="#">3130 06 03</a>	<a href="#">3130 06 04</a>	<a href="#">3130 06 05</a>	<a href="#">3130 06 10</a>	7.80	3.10	0.001
	8	<a href="#">3130 08 01</a>	<a href="#">3130 08 02</a>	<a href="#">3130 08 03</a>	<a href="#">3130 08 04</a>	<a href="#">3130 08 05</a>	<a href="#">3130 08 10</a>	9.50	4.30	0.001
	10	<a href="#">3130 10 01</a>	<a href="#">3130 10 02</a>	<a href="#">3130 10 03</a>	<a href="#">3130 10 04</a>	<a href="#">3130 10 05</a>	<a href="#">3130 10 10</a>	10.80	4.20	0.002
	12	<a href="#">3130 12 01</a>	<a href="#">3130 12 02</a>	<a href="#">3130 12 03</a>	<a href="#">3130 12 04</a>	<a href="#">3130 12 05</a>	<a href="#">3130 12 10</a>	12.50	5.10	0.003
	14	<a href="#">3130 14 01</a>	<a href="#">3130 14 02</a>	<a href="#">3130 14 03</a>	<a href="#">3130 14 04</a>	<a href="#">3130 14 05</a>	<a href="#">3130 14 10</a>	12.50	5.10	0.004

## 3130 Tamper-Proof Safety Clip







Technical Polymer	ØD							H	K	kg	Inch
	1/4	<a href="#">3130 56 01</a>	<a href="#">3130 56 02</a>	<a href="#">3130 56 03</a>	<a href="#">3130 56 04</a>	<a href="#">3130 56 05</a>	<a href="#">3130 56 10</a>	7.80	3.10	0.001	
	3/8	<a href="#">3130 60 01</a>	<a href="#">3130 60 02</a>	<a href="#">3130 60 03</a>	<a href="#">3130 60 04</a>	<a href="#">3130 60 05</a>	<a href="#">3130 60 10</a>	10.80	4.20	0.002	
	1/2	<a href="#">3130 62 01</a>	<a href="#">3130 62 02</a>	<a href="#">3130 62 03</a>	<a href="#">3130 62 04</a>	<a href="#">3130 62 05</a>	<a href="#">3130 62 10</a>	12.50	5.10	0.003	

5/32" (4 mm) and 5/16" (8 mm) also available.

## 3110 Coloured Release Button Covers



Technical Polymer	ØD						kg
	4	<a href="#">3110 04 00</a>	<a href="#">3110 04 02</a>	<a href="#">3110 04 03</a>	<a href="#">3110 04 04</a>	<a href="#">3110 04 05</a>	0.001
	6	<a href="#">3110 06 00</a>	<a href="#">3110 06 02</a>	<a href="#">3110 06 03</a>	<a href="#">3110 06 04</a>	<a href="#">3110 06 05</a>	0.001
	8	<a href="#">3110 08 00</a>	<a href="#">3110 08 02</a>	<a href="#">3110 08 03</a>	<a href="#">3110 08 04</a>	<a href="#">3110 08 05</a>	0.001
	10	<a href="#">3110 10 00</a>	<a href="#">3110 10 02</a>	<a href="#">3110 10 03</a>	<a href="#">3110 10 04</a>	<a href="#">3110 10 05</a>	0.001
	12	<a href="#">3110 12 00</a>	<a href="#">3110 12 02</a>	<a href="#">3110 12 03</a>	<a href="#">3110 12 04</a>	<a href="#">3110 12 05</a>	0.001
	14	<a href="#">3110 14 00</a>	<a href="#">3110 14 02</a>	<a href="#">3110 14 03</a>	<a href="#">3110 14 04</a>	<a href="#">3110 14 05</a>	0.002

## 3110 Coloured Release Button Covers

Technical Polymer	ØD						kg	Inch
	1/4	<a href="#">3110 56 00</a>	<a href="#">3110 56 02</a>	<a href="#">3110 56 03</a>	<a href="#">3110 56 04</a>	<a href="#">3110 56 05</a>	0.001	
	3/8	<a href="#">3110 60 00</a>	<a href="#">3110 60 02</a>	<a href="#">3110 60 03</a>	<a href="#">3110 60 04</a>	<a href="#">3110 60 05</a>	0.001	
	1/2	<a href="#">3110 62 00</a>	<a href="#">3110 62 02</a>	<a href="#">3110 62 03</a>	<a href="#">3110 62 04</a>	<a href="#">3110 62 05</a>	0.001	

5/32" (4 mm) and 5/16" (8 mm) also available

## 0605 Fluoropolymer Tape

FKM		kg
	<a href="#">0605 12 12</a>	0.012
	<p>Can be used for temperatures from - 250°C to +260°C.            Chemically inert and resistant to gases, acids, solvents, hydrocarbons, oils, alkalines, steam, etc.            Non-toxic, waterproof, self-lubricating.            In accordance with CFR21.            Can be used on all materials.            Used to facilitate the preparation of leak-free threaded joints.            Supplied on a reel: length = 12 m; width = 12.7 mm; thickness = 0.08 mm.</p>	





# LIQUIfit+ Push-In Fittings

For the transfer of sensitive fluids, the LIQUIfit+ range **reduces the growth of bacteria** in your circuits **for 100% cleanliness after cleaning**, and can be **directly** connected to stainless steel tubing, without grooving.

## Product Advantages

### Zero Retention for 100% Cleanliness

- Up to 10 times less microbial growth within the fitting
- Elimination of 99.9% of bacteria during cleaning operations
- No degradation of the beverage taste
- Preservation of the integrity of sensitive or industrial fluids
- Extension of the fitting's life due to the absence of bacteria after cleaning

### Quality & Reliability

- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Quality approved for contact with food
- Excellent chemical resistance (chlorine, cleaning agents, UV...)
- Excellent long-term mechanical resistance
- Safety clip to avoid any untimely disconnection

### Innovative Technology

- Patented push-in connection, unique on stainless steel tubing (without preparation) and on polymer tubing
- Extremely compact
- 100% bio-based material
- Patented sealing technology (FR29461418)
- No tube movement after connection



Applications

- Food Process
- Medical
- Beverage Dispensers
- Pharmaceutical
- Chemical
- Brewing

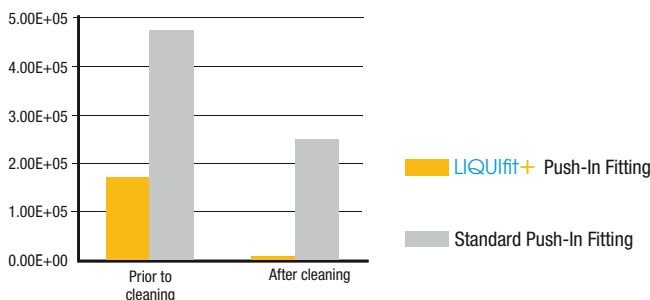
## Technical Characteristics

<b>Compatible Fluids</b>	Beer, water, beverages, industrial fluids
<b>Working Pressure</b>	Vacuum to 16 bar
<b>Working Temperature</b>	-10°C to +95°C (see LIQUIfit® chart p. 1-47)

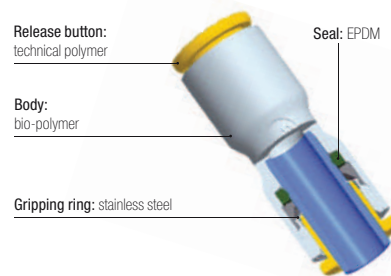
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.  
The use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

### Cleaning Efficiency

Comparison of the contamination by micro-organisms before and after cleaning operations (cfu/surface)\*



### Component Materials



### Silicone-free


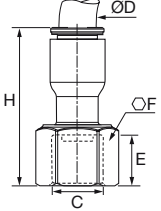

### Regulations

DI: 2002/95/EC (RoHS), 2011/65/EC  
 RG: 1935/2004/EC  
 FDA: 21 CFR  
 NSF51  
 NSF/ANSI 61 - C HOT



## 6333 Stud Fitting, Female BSPP Thread


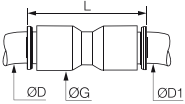

Inch

		<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		3/8	G1/2	<a href="#">6333 60 21WP3</a>	14	11	30	0.010
		3/8	G5/8	<a href="#">6333 60 23WP3</a>	14	13	36	0.016

WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).

## 6336 Equal and Unequal Tube-to-Tube Connector


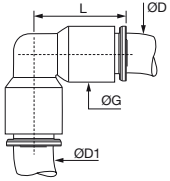

Inch

		<b>ØD</b>	<b>ØD1</b>		<b>ØG</b>	<b>L</b>	<b>kg</b>
		5/16	5/16	<a href="#">6336 08 00WP3</a>	13.5	37	0.004
		5/16	3/8	<a href="#">6336 08 60WP3</a>	16	42	0.008
			1/2	<a href="#">6336 08 62WP3</a>	22	55	0.016
		3/8	3/8	<a href="#">6336 60 00WP3</a>	16	42	0.006
			1/2	<a href="#">6336 60 62WP3</a>	22	56	0.020
		1/2	1/2	<a href="#">6336 62 00WP3</a>	22	57	0.016

WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).

## 6332 Equal and Unequal Elbow


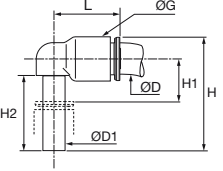

Inch

		<b>ØD</b>	<b>ØD1</b>		<b>ØG</b>	<b>L</b>	<b>kg</b>
		5/16	5/16	<a href="#">6332 08 00WP3</a>	13.5	29	0.004
		5/16	3/8	<a href="#">6332 08 60WP3</a>	16	34	0.009
		3/8	3/8	<a href="#">6332 60 00WP3</a>	16	34	0.006
			1/2	<a href="#">6332 60 62WP3</a>	22	46.5	0.011
		1/2	1/2	<a href="#">6332 62 00WP3</a>	22	46.5	0.017

WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).

## 6331 Equal Plug-In Elbow

Inch

		<b>ØD</b>	<b>ØD1</b>		<b>ØG</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>L</b>	<b>kg</b>
		5/16	5/16	<a href="#">6331 08 00WP3</a>	13.5	33.5	8	21.5	22.5	0.004
		3/8	3/8	<a href="#">6331 60 00WP3</a>	16	39	9	24.5	26.5	0.005

WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).

### Use with Stainless Steel Tubing

- These fittings are approved for use with 304 and 316L stainless steel tubing, 160 Hv, with tolerances on the external diameter +0.05/-0.10 mm.
- Carefully deburr the stainless steel tube end.
- For easy disconnection, press firmly on the release button.
- After 5 connections/disconnections, we recommend that you change the fitting.





# LF 3600 Push-In Fittings Range

## Stud Fittings

### Straights

- 3675**  
BSPT  
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- 3601**  
BSPP/Metric  
Page 1-67
- 3681**  
Metric  
Page 1-67
- 3614**  
BSPP/Metric  
Page 1-68
- 3621**  
BSPT  
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- 3631**  
BSPP/Metric  
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- 3600**  
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### Elbows

- 3609**  
BSPT  
Page 1-69
- 3629**  
BSPT  
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- 3699**  
BSPP/Metric  
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- 3669**  
BSPP/Metric  
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### Tees

- 3608**  
BSPT  
Page 1-70
- 3603**  
BSPT  
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- 3698**  
BSPP/Metric  
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- 3693**  
BSPP/Metric  
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### Banjo

- 3618**  
BSPP/Metric  
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## Tube-to-Tube Fittings

### Straight

- 3606**  
Page 1-72



### Elbow

- 3602**  
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### Tee

- 3604**  
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## Bulkhead Connector Fittings

### Straights

- 3616**  
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- 3636**  
BSPP  
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### Elbow

- 3639**  
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## Plug-In Accessories

- 3666**  
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- 3667**  
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- 3668**  
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- 3622**  
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## Accessories

- 0605**  
Page 1-75
- 3000 70**  
Page 1-75
- 3610**  
Page 1-75



# LF 3600 Push-In Fittings

In order to meet your **technical and environment requirements**, Parker Legris designed this range of metal fittings, offering **robustness, reliability** and **resistance to industrial fluids** for the most demanding environments.

## Product Advantages

<b>High Performance</b>	Resistant up to +150°C at 30 bar Excellent mechanical performance Long threads to resist shock and vibration Excellent abrasion and corrosion resistance due to high phosphorus chemical nickel plating Full flow, minimal pressure drop
<b>Versatility</b>	Materials conform to FDA standards Spring collet gripping system suitable for both metal (grooved) and polymer tubing Excellent resistance to high pressure and vacuum Excellent chemical compatibility More than 250 part numbers One fitting for numerous applications: stock optimisation Manual connection and disconnection Compact and ergonomic
<b>Reliability</b>	High performance brass for increased lifespan 100% leak-tested in production Date coding to guarantee quality and traceability



Food Process  
Coffee Machines  
In-Plant Automotive  
Medical Equipment  
Printing  
Misting  
Welding Robots

Applications

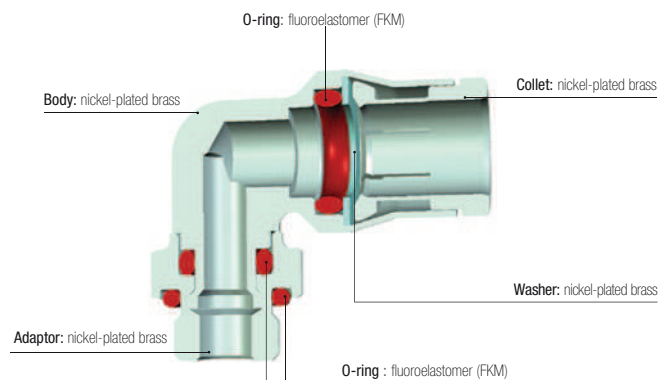
## Technical Characteristics

<b>Suitable Fluids</b>	Compressed air, grease, lubricant, water...
<b>Working Pressure</b>	Vacuum to 30 bar (20 bar: 3699, 3609)
<b>Working Temperature</b>	-20°C to +150°C

Maximum Tightening Torque (daN.m)	Thread							
	M5 x0.8	M6 x1	M8 x1	M10 x1	G1/8	G1/4	G3/8	G1/2
	0.16	0.18	0.6	0.8	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

**Industrial**  
ISO 14743: pneumatic transmissions, push-in fittings for thermoplastic tubing  
DI: 97/23/EC (PED)  
DI: 2002/95/EC (RoHS), 2011/65/EC  
RG: 1907/2006 (REACH)  
DI: 94/9/EC (ATEX)  
UL94 V-0: please consult us


**Food**  
RG: 21CFR (FDA)  
RG: 1935/2004/EC (minimum flow 0.02 l/h)  
USDA NSF H1: grease  
ASTM B733-04: autocatalytic (electroless) nickel-phosphorus coatings

# Stud Fittings


## 3675 Stud Fitting, Male BSPT Thread

ØD	C		F1	F2	H	kg
			4	R1/8	<a href="#">3675 04 10</a>	10
	R1/4	<a href="#">3675 04 13</a>	14	3	15	0.017
6	R1/8	<a href="#">3675 06 10</a>	13	4	17	0.011
	R1/4	<a href="#">3675 06 13</a>	14	4	17	0.018
8	R1/8	<a href="#">3675 08 10</a>	15	5	19	0.015
	R1/4	<a href="#">3675 08 13</a>	16	6	18	0.019
10	R3/8	<a href="#">3675 08 17</a>	17	6	18.5	0.027
	R1/4	<a href="#">3675 10 13</a>	18	7	23	0.026
	R3/8	<a href="#">3675 10 17</a>	18	8	22.5	0.031
12	R1/2	<a href="#">3675 10 21</a>	22	8	22.5	0.056
	R1/4	<a href="#">3675 12 13</a>	20	7	25.5	0.033
14	R3/8	<a href="#">3675 12 17</a>	20	9	24	0.035
	R1/2	<a href="#">3675 12 21</a>	22	10	23	0.051
14	R3/8	<a href="#">3675 14 17</a>	22	9	27	0.042
	R1/2	<a href="#">3675 14 21</a>	24	11	26	0.057

## 3601 Stud Fitting, Male BSPP and Metric Thread

ØD	C		E	F1	F2	H	kg
			4	M5x0.8	<a href="#">3601 04 19</a>	3.5	10
	M6x1	<a href="#">3601 04 52</a>	4.5	10	3	16	0.006
4	M8x1	<a href="#">3601 04 56</a>	5	11	3	14.5	0.007
	G1/8	<a href="#">3601 04 10</a>	5.5	13	3	14.5	0.009
	G1/4	<a href="#">3601 04 13</a>	6.5	16	3	14.5	0.015
	M5x0.8	<a href="#">3601 06 19</a>	3.5	13	2.5	19	0.010
6	M10x1	<a href="#">3601 06 60</a>	5.5	13	4	17.5	0.011
	G1/8	<a href="#">3601 06 10</a>	5.5	13	4	17.5	0.011
	G1/4	<a href="#">3601 06 13</a>	6.5	16	4	17	0.015
8	G1/8	<a href="#">3601 08 10</a>	5.5	16	5	20	0.014
	G1/4	<a href="#">3601 08 13</a>	6.5	16	6	18	0.016
	G3/8	<a href="#">3601 08 17</a>	7.5	20	6	19	0.028
10	G1/4	<a href="#">3601 10 13</a>	6.5	18	7	25	0.025
	G3/8	<a href="#">3601 10 17</a>	7.5	20	8	22.5	0.028
	G1/2	<a href="#">3601 10 21</a>	9	24	8	22.5	0.043
12	G1/4	<a href="#">3601 12 13</a>	6.5	20	7	26.5	0.030
	G3/8	<a href="#">3601 12 17</a>	7.5	20	9	26	0.034
14	G1/2	<a href="#">3601 12 21</a>	9	24	10	23.5	0.042
	G3/8	<a href="#">3601 14 17</a>	7.5	22	9	28	0.038
14	G1/2	<a href="#">3601 14 21</a>	9	24	11	26.5	0.045

## 3681 Stud Fitting with Internal Hexagon, Male Metric Thread


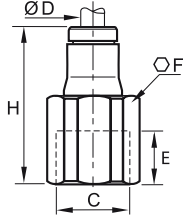

ØD	C		E	F	G	H	kg
4	M5x0.8	<a href="#">3681 04 19</a>	3.5	2.5	10	16	0.005

### Related Products


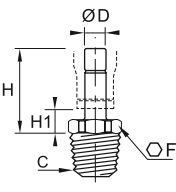

- Polyurethane Tubing
- Polyamide Tubing
- Polyethylene Tubing
- Fluoropolymer Tubing
- Anti-Spark Tubing
- Fireproof PA Tubing
- Brass Flow Control Regulators

# Stud Fittings


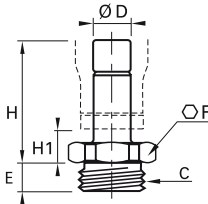

## 3614 Stud Fitting, Female BSPP and Metric Thread

	 <p>FDA chemical nickel-plated brass, FKM</p>	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		4	M5x0.8	<a href="#">3614 04 19</a>	5	10	22	0.009


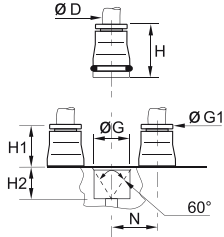

## 3621 Stud Standpipe, Male BSPT Thread

	 <p>FDA chemical nickel-plated brass</p>	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>H</b>	<b>H1</b>	<b>kg</b>
		4	R1/8	<a href="#">3621 04 10</a>	10	21	7	0.006

## 3631 Stud Standpipe, Male BSPP and Metric Thread

	 <p>FDA chemical nickel-plated brass, FKM</p>	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>kg</b>
		4	M5x0.8	<a href="#">3631 04 19</a>	3.5	13	21.5	7	0.003

## 3600 Cartridge

	 <p>FDA chemical nickel-plated brass, FKM</p>	<b>ØD</b>		<b>G</b>	<b>G1</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>N</b>	<b>kg</b>
		4	<a href="#">3600 04 00</a>	9.8	8	17	8.5	8.5	11	0.006

Cavity dimensions available in Chapter 2





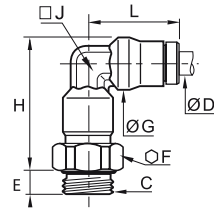
# Stud Fittings

**3669**

## Extended Stud Elbow, Male BSPP and Metric Thread



FDA chemical nickel-plated brass, FKM



ØD	C		E	F	G	H	J	L	kg
4	M5x0.8	<a href="#">3669 04 19</a>	3.5	10	10	27.5	7	18	0.014
	G1/8	<a href="#">3669 04 10</a>	5.5	13	10	25.5	7	18	0.017
6	G1/8	<a href="#">3669 06 10</a>	5.5	13	12	31	8	21.5	0.024
	G1/4	<a href="#">3669 06 13</a>	6.5	16	12	30.5	8	21.5	0.028
8	G1/8	<a href="#">3669 08 10</a>	5.5	14	15	33.5	10	23.5	0.031
	G1/4	<a href="#">3669 08 13</a>	5.5	16	15	34	10	23.5	0.035
10	G1/4	<a href="#">3669 10 13</a>	6.5	18	17.5	42	12	29	0.052
	G3/8	<a href="#">3669 10 17</a>	7.5	20	17.5	41	12	29	0.056
12	G1/4	<a href="#">3669 12 13</a>	6.5	20	19.5	47	15	31	0.070
	G3/8	<a href="#">3669 12 17</a>	7.5	20	19.5	46	15	31	0.072
14	G1/2	<a href="#">3669 14 21</a>	9	24	21.5	49	16	34	0.094

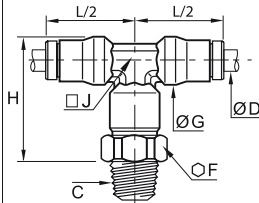
The body swivels for positioning purposes.

**3608**

## Stud Branch Tee, Male BSPT Thread



FDA chemical nickel-plated brass, FKM



ØD	C		F	G	H	J	L/2	kg
4	R1/8	<a href="#">3608 04 10</a>	10	10	24.5	7	18	0.020
	R1/8	<a href="#">3608 06 10</a>	13	12	29.5	8	21.5	0.031
6	R1/4	<a href="#">3608 06 13</a>	14	12	30.5	8	21.5	0.038
	R1/8	<a href="#">3608 08 10</a>	14	15	32.5	10	23.5	0.040
8	R1/4	<a href="#">3608 08 13</a>	14	15	34	10	23.5	0.047
	R1/4	<a href="#">3608 10 13</a>	18	17.5	39	12	29	0.067
10	R3/8	<a href="#">3608 10 17</a>	18	17.5	41	12	29	0.070
	R3/8	<a href="#">3608 12 17</a>	20	19.5	46.5	15	31	0.094
14	R1/2	<a href="#">3608 14 21</a>	22	21.5	50.5	16	34	0.125

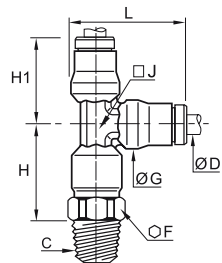
The body swivels for positioning purposes.

**3603**

## Stud Run Tee, Male BSPT Thread



FDA chemical nickel-plated brass, FKM



ØD	C		F	G	H	H1	J	L	kg
4	R1/8	<a href="#">3603 04 10</a>	10	10	19.5	18	7	23	0.018
	R1/8	<a href="#">3603 06 10</a>	13	12	23.5	21.5	8	28	0.031
6	R1/4	<a href="#">3603 06 13</a>	14	12	24.5	21.5	8	28	0.037
	R1/8	<a href="#">3603 08 10</a>	14	15	25	23.5	10	31	0.041
8	R1/4	<a href="#">3603 08 13</a>	14	15	26.5	23.5	10	31	0.044
	R1/4	<a href="#">3603 10 13</a>	18	17.5	30.5	29	12	37.5	0.067
10	R3/8	<a href="#">3603 10 17</a>	18	17.5	32.5	29	12	37.5	0.069
	R3/8	<a href="#">3603 12 17</a>	20	19.5	36.5	31	15	40.5	0.103
14	R1/2	<a href="#">3603 14 21</a>	22	21.5	40	34	16	45	0.147

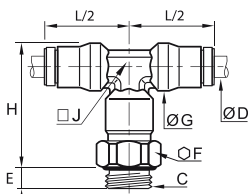
The body swivels for positioning purposes.

**3698**

## Stud Branch Tee, Male BSPP and Metric Thread



FDA chemical nickel-plated brass, FKM


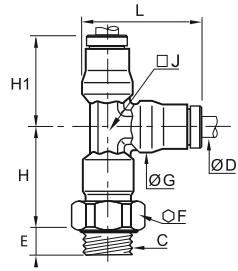



ØD	C		E	F	G	H	J	L/2	kg
4	M5x0.8	<a href="#">3698 04 19</a>	3.5	10	10	27.5	7	18	0.018
	G1/8	<a href="#">3698 04 10</a>	5.5	13	10	25.5	7	18	0.021
6	G1/8	<a href="#">3698 06 10</a>	5.5	13	12	31	8	21.5	0.031
	G1/4	<a href="#">3698 06 13</a>	6.5	16	12	30.5	8	21.5	0.035
8	G1/8	<a href="#">3698 08 10</a>	5.5	14	15	33.5	10	23.5	0.041
	G1/4	<a href="#">3698 08 13</a>	6.5	16	15	34	10	23.5	0.045
10	G1/4	<a href="#">3698 10 13</a>	6.5	18	17.5	42	12	29	0.066
12	G3/8	<a href="#">3698 12 17</a>	7.5	20	19.5	46	15	31	0.088
14	G1/2	<a href="#">3698 14 21</a>	9	24	21.5	49	16	34	0.111

The body swivels for positioning purposes.


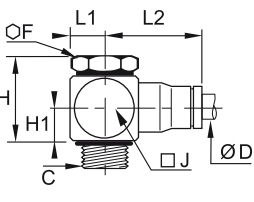

# Stud Fittings

## 3693 Stud Run Tee, Male BSPP and Metric Thread

		FDA chemical nickel-plated brass, FKM		ØD	C		E	F	G	H	H1	J	L	kg
		4	M5x0.8 G1/8	3693 04 19 3693 04 10	3.5 5.5	10 13	10 10	22.5 20.5	18 18	7 7	23 23	0.019 0.021		
				6	G1/8 G1/4	3693 06 10 3693 06 13	5.5 6.5	13 16	12 12	25 24.5	21.5 21.5	8 8	28 28	0.031 0.035
				8	G1/8 G1/4	3693 08 10 3693 08 13	5.5 6.5	14 16	15 15	26.5 26.5	23.5 23.5	10 10	31 31	0.041 0.044
				10	G1/4	3693 10 13	6.5	18	17.5	33	29	12	37.5	0.066
				12	G3/8	3693 12 17	7.5	20	19.5	36.5	31	15	40.5	0.090
				14	G1/2	3693 14 21	9	24	21.5	38.5	34	16	45	0.112

The body swivels for positioning purposes.

## 3618 Single Banjo, Male BSPP and Metric Thread

		FDA chemical nickel-plated brass, FKM		ØD	C		F	H	H1	J	L1	L2	kg
		4	M5x0.8 G1/8	3618 04 19 3618 04 10	8 14	14.5 23	6.5 9.5	10 17	6 10	18.5 20.5	0.011 0.029		
				6	M5x0.8 G1/8 G1/4	3618 06 19 3618 06 10 3618 06 13	8 14 17	15 23 22	7 9.5 9	10 17 22	6 10 13	22.5 23.5 25.5	0.015 0.031 0.049
				8	G1/8 G1/4	3618 08 10 3618 08 13	14 17	23 22	9 9	17 22	10 13	26 27.5	0.033 0.051
				10	G3/8	3618 10 17	22	33	14	22	13	32	0.105


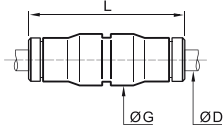

Maximum temperature: +80°C

Each model has been designed to meet specific requirements: compactness due to small overall dimensions, with inter-connectability for customised configurations.


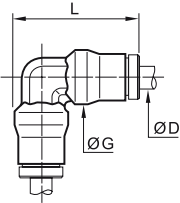



# Tube-to-Tube Fittings


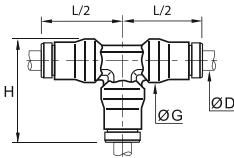

## 3606 Equal Tube-to-Tube Connector

			<b>ØD</b>			<b>G</b>	<b>L</b>	<b>kg</b>
			4	<a href="#">3606 04 00</a>	10	30.5	0.010	
			6	<a href="#">3606 06 00</a>	12	36.5	0.016	
			8	<a href="#">3606 08 00</a>	15	37.5	0.021	
			10	<a href="#">3606 10 00</a>	17.5	47.5	0.034	
			12	<a href="#">3606 12 00</a>	19.5	50	0.042	
			14	<a href="#">3606 14 00</a>	21.5	52.5	0.050	

## 3602 Equal Elbow


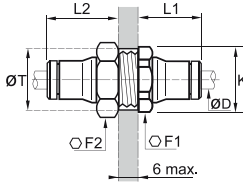

			<b>ØD</b>			<b>G</b>	<b>L</b>	<b>kg</b>
			4	<a href="#">3602 04 00</a>	10	23	0.010	
			6	<a href="#">3602 06 00</a>	12	28	0.016	
			8	<a href="#">3602 08 00</a>	15	31	0.023	
			10	<a href="#">3602 10 00</a>	17.5	37.5	0.033	
			12	<a href="#">3602 12 00</a>	19.5	40.5	0.045	
			14	<a href="#">3602 14 00</a>	21.5	45	0.056	

## 3604 Equal Tee


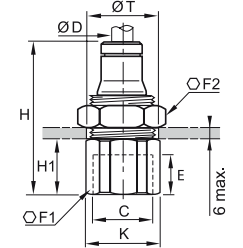

			<b>ØD</b>			<b>G</b>	<b>H</b>	<b>L/2</b>	<b>kg</b>
			4	<a href="#">3604 04 00</a>	10	23	18	0.014	
			6	<a href="#">3604 06 00</a>	12	28	21.5	0.023	
			8	<a href="#">3604 08 00</a>	15	31	23.5	0.032	
			10	<a href="#">3604 10 00</a>	17.5	37.5	29	0.048	
			12	<a href="#">3604 12 00</a>	19.5	40.5	31	0.063	
			14	<a href="#">3604 14 00</a>	21.5	45	34	0.078	

# Bulkhead Connector Fittings


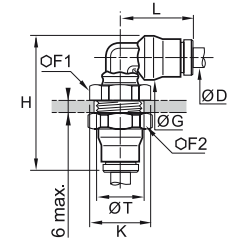

## 3616 Equal Bulkhead Connector

	<p>FDA chemical nickel-plated brass, FKM</p> 	ØD		F1	F2	K	L1	L2	ØT min	kg
		4	<a href="#">3616 04 00</a>	13	14	14	14	20	12.5	0.018
		6	<a href="#">3616 06 00</a>	16	17	17.5	17	22	15	0.028
		8	<a href="#">3616 08 00</a>	18	19	19.5	18.5	23.5	17	0.035
		10	<a href="#">3616 10 00</a>	22	27	24	21.5	26.5	21	0.063
		12	<a href="#">3616 12 00</a>	24	24	26	23	27	23	0.062
		14	<a href="#">3616 14 00</a>	27	27	29.5	25.5	29.5	25	0.079

## 3636 Bulkhead Connector, Female BSPP Thread

	<p>FDA chemical nickel-plated brass, FKM</p> 	ØD	C		E	F1	F2	H	H1	K	ØT min	kg
		4	G1/8	<a href="#">3636 04 10</a>	8.5	14	14	30.5	11	15	13	0.020
		6	G1/8	<a href="#">3636 06 10</a>	8.5	17	17	33	11	18.5	15	0.033
		6	G1/4	<a href="#">3636 06 13</a>	11.5	17	17	37	15	18.5	15	0.033
		8	G1/8	<a href="#">3636 08 10</a>	8.5	19	19	34	10.5	21	17	0.044
		8	G1/4	<a href="#">3636 08 13</a>	11.5	19	19	38	14.5	21	17	0.044
		10	G3/8	<a href="#">3636 10 17</a>	12	22	27	42.5	16	24	21	0.073
12	G3/8	<a href="#">3636 12 17</a>	12	24	24	43	16	26	23	0.077		
12	G1/2	<a href="#">3636 12 21</a>	16	27	24	48.5	21.5	29.5	23	0.133		



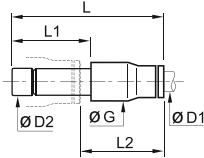
## 3639 Equal Bulkhead Elbow

	<p>FDA chemical nickel-plated brass, FKM</p> 	ØD		F1	F2	G	H	K	L	ØT min	kg
		4	<a href="#">3639 04 00</a>	13	14	10	35	14	18	12.5	0.023
		6	<a href="#">3639 06 00</a>	16	17	12	40.5	17.5	21.5	15	0.035
		8	<a href="#">3639 08 00</a>	18	19	15	44	19.5	23.5	17	0.046
		10	<a href="#">3639 10 00</a>	22	27	17.5	51	24	29	21	0.080
		12	<a href="#">3639 12 00</a>	24	24	19.5	55	26	31	23	0.086
		14	<a href="#">3639 14 00</a>	27	27	21.5	59	29.5	34	25	0.144



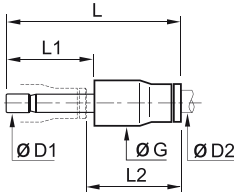
The body swivels for positioning purposes.

# Plug-In Accessories



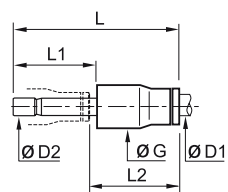
## 3666 Plug-In Reducer

	FDA chemical nickel-plated brass, FKM			<b>ØD1</b>	<b>ØD2</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
											
	4	6	<a href="#">3666 04 06</a>	10	35	19.5	18	0.008			
		8	<a href="#">3666 04 08</a>	10	35.5	20	18	0.009			
	6	8	<a href="#">3666 06 08</a>	12	38	20	20.5	0.012			
		10	<a href="#">3666 06 10</a>	12	43.5	25	21	0.015			
	8	10	<a href="#">3666 08 10</a>	15	44	25	21.5	0.016			
		12	<a href="#">3666 08 12</a>	15	44	26	20.5	0.018			
	10	12	<a href="#">3666 10 12</a>	17.5	50	26	27	0.026			
	12	14	<a href="#">3666 12 14</a>	19.5	53	28	28.5	0.032			



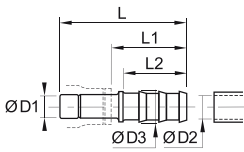
## 3667 Plug-In Metric/Inch Adaptor

	FDA chemical nickel-plated brass, FKM			<b>ØD1</b>	<b>ØD2</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
											
	6	1/4	<a href="#">3667 06 56</a>	12.5	38.5	19.5	21	0.012			
	10	3/8	<a href="#">3667 10 60</a>	17	49.5	25	27	0.026			
	12	1/2	<a href="#">3667 12 62</a>	20	51	26	27.5	0.030			



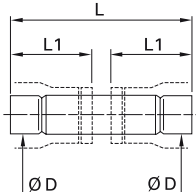
## 3668 Plug-In Increaser

	FDA chemical nickel-plated brass, FKM			<b>ØD1</b>	<b>ØD2</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
											
	6	4	<a href="#">3668 06 04</a>	12	36	17	21.5	0.010			

## 3622 Plug-In Barb Connector


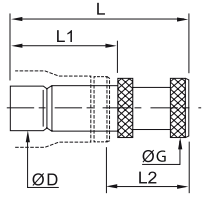

	FDA chemical nickel-plated brass			<b>ØD1</b>	<b>ØD2</b>		<b>ØD3</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
											
	4	3.2	<a href="#">3622 04 53</a>	5	40.5	27	22.5	0.003			
		5	<a href="#">3622 04 05</a>	7	40.5	27	22.5	0.005			
	6	5	<a href="#">3622 06 05</a>	7	43	27	22.5	0.006			
		6.3	<a href="#">3622 08 56</a>	8.3	42	25	22.5	0.008			
	8	8	<a href="#">3622 08 08</a>	10	44	27	22.5	0.010			
		6.3	<a href="#">3622 10 56</a>	8.3	47.5	25.5	22.5	0.011			
	10	8	<a href="#">3622 10 08</a>	10	47.5	25.5	22.5	0.011			
		8	<a href="#">3622 12 08</a>	10	48.5	25.5	22.5	0.015			
	12	10	<a href="#">3622 12 10</a>	10	48.5	25.5	22.5	0.014			
		12.5	<a href="#">3622 12 62</a>	14.5	57	34	29.5	0.019			
	14	12.5	<a href="#">3622 14 62</a>	16	57.5	33	29.5	0.023			
		14	<a href="#">3622 14 14</a>	16	59.5	35	29.5	0.023			

## 3620 Male Stem Connector



	FDA chemical nickel-plated brass			<b>ØD</b>		<b>L</b>	<b>L1</b>	<b>kg</b>
								
	4		<a href="#">3620 04 00</a>	31	14	0.002		
	6		<a href="#">3620 06 00</a>	36.5	17	0.005		
	8		<a href="#">3620 08 00</a>	37.5	17.5	0.007		
	10		<a href="#">3620 10 00</a>	47.5	22.5	0.011		
	12		<a href="#">3620 12 00</a>	49.5	23.5	0.015		
	14		<a href="#">3620 14 00</a>	53	25	0.016		

# Plug-In Accessories


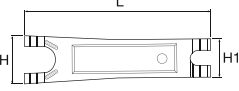

## 3626 Blanking Plug

	FDA chemical nickel-plated brass			<b>ØD</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>	
				4		6	25.5	17.5	11.5	0.004
				6	<a href="#">3626 06 00</a>	8	30.5	19.5	13.5	0.009
				8	<a href="#">3626 08 00</a>	10	33	20	16	0.009
				10	<a href="#">3626 10 00</a>	12	40	25	18	0.015
				12	<a href="#">3626 12 00</a>	14	43	26	20	0.021
				14	<a href="#">3626 14 00</a>	16	47	28	22.5	0.029




## 0605 Fluoropolymer Tape

	FKM		<b>kg</b>
<p>Can be used for temperatures from - 250°C to +260°C.          Chemically inert and resistant to gases, acids, solvents, hydrocarbons, oils, alkalines, steam etc.          Non-toxic, waterproof, self-lubricating.          In accordance with CFR21.          Can be used on all materials.          Used to facilitate the preparation of leak-free threaded joints.          Supplied on a reel, length = 12 m; width = 12.7 mm; thickness 0.08 mm.</p>			

## 3000 70 00 Disconnection Tool

	Treated steel			<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
<p>For disconnecting LF 3000® fittings/tubing where access is difficult, we recommend the use of this disconnection tool.</p>							

## 3610 Coloured Release Button Covers

	Anodised aluminium	<b>ØD</b>			<b>kg</b>
		6	<a href="#">3610 06 00</a>	<a href="#">3610 06 04</a>	0.004
		8	<a href="#">3610 08 00</a>	<a href="#">3610 08 04</a>	0.007
		10	<a href="#">3610 10 00</a>	<a href="#">3610 10 04</a>	0.011
		12	<a href="#">3610 12 00</a>	<a href="#">3610 12 04</a>	0.013
		14	<a href="#">3610 14 00</a>	<a href="#">3610 14 04</a>	0.016
<p>Red and green colours are available upon request          Coloured release buttons covers help the identification of circuits and will protect your connections against spark projections.</p>					





# LF 3800/LF 3900 Push-In Fittings Range

## Stud Fittings

### Straights

<b>3805</b> <b>3905</b> BSPT Page 1-79	<b>3805</b> NPT Page 1-79	<b>3801</b> <b>3901</b> BSPP/Metric Page 1-79	<b>3821</b> <b>3921</b> BSPT Page 1-80	<b>3821</b> <b>3921</b> NPT Page 1-80	<b>3831</b> <b>3931</b> BSPP/Metric Page 1-80	<b>3800</b> <b>3900</b> Page 1-81	<b>3805</b> NPT Page 1-79	<b>3821</b> NPT Page 1-80
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### Straights - Inch

### Elbows

<b>3809</b> <b>3909</b> BSPT Page 1-81	<b>3809</b> NPT Page 1-81	<b>3899</b> <b>3999</b> BSPP/Metric Page 1-81	<b>3889</b> <b>3989</b> BSPT Page 1-82	<b>3889</b> NPT Page 1-82	<b>3879</b> <b>3979</b> BSPP Page 1-82	<b>3889</b> NPT Page 1-82
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### Elbow - Inch

### Tees

<b>3803</b> <b>3903</b> BSPT Page 1-83	<b>3803</b> NPT Page 1-83	<b>3893</b> <b>3993</b> BSPP/Metric Page 1-83	<b>3808</b> <b>3908</b> BSPT Page 1-83	<b>3808</b> NPT Page 1-84	<b>3898</b> <b>3998</b> BSPP/Metric Page 1-84
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## Tube-to-Tube Fittings

<b>3806</b> <b>3906</b> Page 1-85	<b>3806</b> <b>3906</b> Page 1-85	<b>3802</b> <b>3902</b> Page 1-85	<b>3802</b> <b>3902</b> Page 1-85	<b>3804</b> <b>3904</b> Page 1-85	<b>3804</b> Page 1-86
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## Bulkhead Connector Fittings

<b>3816</b> <b>3916</b> Page 1-86	<b>3816</b> <b>3916</b> Page 1-86
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## Plug-In Fittings and Accessories

<b>3866</b> <b>3966</b> Reducer Page 1-87	<b>3826</b> Plug Page 1-87
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## Accessories

<b>3800 70</b> Page 1-87	<b>0605</b> Page 1-87	<b>3000 70</b> Page 1-87
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# LF 3800/LF 3900 Push-In Fittings

Parker Legris has developed two ranges of **stainless steel fittings (LF 3800 or LF 3900 in full 316L)** for conveying corrosive fluids in **aggressive environments**. These ranges provide two complementary levels of corrosion resistance and a **hygienic external design**.

## Product Advantages

### High Resistance to Aggressive Environments

LF 3800: excellent for conveying aggressive fluids  
 LF 3900: maximum chemical resistance to internal and external corrosion  
 Hygienic external design for reducing retention zones  
 Easy cleaning in situ  
 Proven gripping technology

### Wide Range of Applications

Perfect for permanent contact with foodstuffs  
 Compatible with frequent sterilization  
 Excellent in saline environments and outdoor applications  
 Resistant to industrial cleaning agents and detergents  
 Compatible with polymer and grooved stainless steel tubing  
 One fitting for many applications: optimised stock management

### Reliability & Safety

All-metal product allowing detection of all components  
 Full bore, with minimal pressure drop  
 Resistant to hammering, mechanical shock and impulse  
 Manual connection and disconnection, no tools required  
 100% leak-tested in production  
 Date coding to guarantee quality and traceability  
 IP 51 bulkhead: complete protection against ingress in food and non-food zones



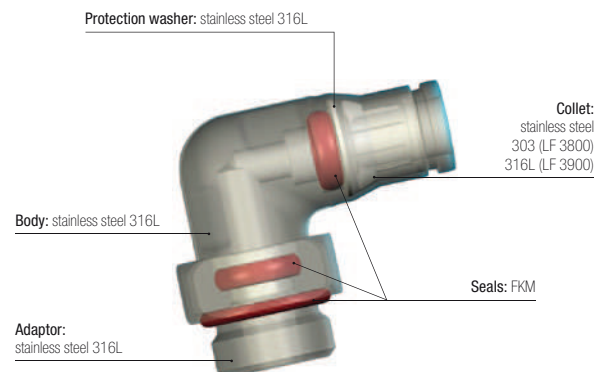
**Applications**  
 Food Process  
 Paper Industry  
 Petrochemical  
 Pharmaceutical  
 Chemical  
 Medical

## Technical Characteristics

<b>Compatible Fluids</b>	All fluids compatible with the fitting and tubing component materials					
<b>Working Pressure</b>	Vacuum to 30 bar (20 bar: 3879/3979 and 3889/3989)					
<b>Working Temperature</b>	-20° to +150°C					
<b>Adaptor Tightening Torque</b>	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5
<b>Bulkhead Tightening Torque</b>	Ø (mm)	4	6	8	10	12
	daN.m min.	0.5	0.5	0.6	0.6	0.6
	max.	0.9	0.9	1	1	1

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

ISO 14743 Pneumatic transmissions, push-in fittings for thermoplastic tubing  
 DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 94/9/EC (ATEX)

RG: 1907/2006 (REACH)  
 UL94 V-0: Seal  
 RG: 21 CFR (FDA)  
 RG: 1935/2004/EC  
 USDA NSF H1: Grease

# Stud Fittings

## 3805/3905

### Stud Fitting, Male BSPT Thread

ØD	C	Stainless steel 316L, FKM		F	F1	H	kg
4	R1/8	<a href="#">3805 04 10</a>	<a href="#">3905 04 10</a>	10	3	14.5	0.008
	R1/4	<a href="#">3805 04 13</a>	<a href="#">3905 04 13</a>	14	3	14.5	0.016
6	R1/8	<a href="#">3805 06 10</a>	<a href="#">3905 06 10</a>	13	4	18	0.012
	R1/4	<a href="#">3805 06 13</a>	<a href="#">3905 06 13</a>	14	4	16.5	0.018
8	R1/8	<a href="#">3805 08 10</a>	<a href="#">3905 08 10</a>	15	5	19	0.015
	R3/8	<a href="#">3805 08 17</a>	<a href="#">3905 08 17</a>	17	6	18.5	0.025
10	R1/4	<a href="#">3805 10 13</a>	<a href="#">3905 10 13</a>	19	6	24	0.029
	R3/8	<a href="#">3805 10 17</a>	<a href="#">3905 10 17</a>	19	6	22.5	0.031
12	R1/4	<a href="#">3805 12 13</a>	<a href="#">3905 12 13</a>	22	7	25	0.035
	R3/8	<a href="#">3805 12 17</a>	<a href="#">3905 12 17</a>	22	8	24	0.038
	R1/2	<a href="#">3805 12 21</a>	<a href="#">3905 12 21</a>	22	10	23	0.046

## 3805

### Stud Fitting, Male NPT Thread

ØD	C	Stainless steel 316L, FKM		F	F1	H	kg
4	NPT1/8	<a href="#">3805 04 11</a>		11	3	14.5	0.009
6	NPT1/8	<a href="#">3805 06 11</a>		13	4	18	0.012
	NPT1/4	<a href="#">3805 06 14</a>		14	4	16.5	0.017
8	NPT1/8	<a href="#">3805 08 11</a>		15	5	19	0.015
	NPT1/4	<a href="#">3805 08 14</a>		15	6	18	0.019
10	NPT1/4	<a href="#">3805 10 14</a>		19	6	24	0.028
	NPT3/8	<a href="#">3805 10 18</a>		19	7	22.5	0.031
12	NPT1/4	<a href="#">3805 12 14</a>		22	7	25	0.035
	NPT3/8	<a href="#">3805 12 18</a>		22	8	24	0.039
	NPT1/2	<a href="#">3805 12 22</a>		22	10	23	0.045

## 3805

### Stud Fitting, Male NPT Thread

Inch

ØD	C	Stainless steel 316L, FKM		F	F1	H	kg
3/16	NPT1/8	<a href="#">3805 55 11</a>		10	3	15.5	0.010
	NPT1/4	<a href="#">3805 55 14</a>		14	3	15.5	0.016
1/4	NPT1/8	<a href="#">3805 56 11</a>		13	4	19	0.012
	NPT1/4	<a href="#">3805 56 14</a>		14	4	17.5	0.017
3/8	NPT1/4	<a href="#">3805 60 14</a>		19	6	25	0.029
	NPT3/8	<a href="#">3805 60 18</a>		19	7	24	0.032
1/2	NPT1/4	<a href="#">3805 62 14</a>		22	7	26	0.039
	NPT3/8	<a href="#">3805 62 18</a>		22	8	25	0.042
	NPT1/2	<a href="#">3805 62 22</a>		22	10	25	0.050

5/32" (4 mm) and 5/16" (8 mm) also available

## 3801/3901

### Stud Fitting, Male BSPP and Metric Thread

ØD	C	Stainless steel 316L, FKM		F	F1	H	kg
4	M5x0.8	<a href="#">3801 04 19</a>	<a href="#">3901 04 19</a>	10	2.5	17	0.006
	G1/8	<a href="#">3801 04 10</a>	<a href="#">3901 04 10</a>	13	3	16.5	0.009
6	M5x0.8	<a href="#">3801 06 19</a>	<a href="#">3901 06 19</a>	13	2.5	20.5	0.010
	G1/8	<a href="#">3801 06 10</a>	<a href="#">3901 06 10</a>	13	4	18	0.010
8	G1/4	<a href="#">3801 06 13</a>	<a href="#">3901 06 13</a>	17	4	18	0.015
	G1/8	<a href="#">3801 08 10</a>	<a href="#">3901 08 10</a>	15	5	19	0.013
10	G1/4	<a href="#">3801 08 13</a>	<a href="#">3901 08 13</a>	17	5	20.5	0.017
	G3/8	<a href="#">3801 08 17</a>	<a href="#">3901 08 17</a>	21	6	20	0.027
12	G1/4	<a href="#">3801 10 13</a>	<a href="#">3901 10 13</a>	19	7	25	0.025
	G3/8	<a href="#">3801 10 17</a>	<a href="#">3901 10 17</a>	21	7	25	0.035
12	G1/4	<a href="#">3801 12 13</a>	<a href="#">3901 12 13</a>	21	7	27	0.030
	G3/8	<a href="#">3801 12 17</a>	<a href="#">3901 12 17</a>	21	9	26.5	0.034

Other products are available upon request; please do not hesitate to consult us.

# Stud Fittings

## 3821/3921 Stud Standpipe, Male BSPT Thread

ØD	C	Stainless steel 316L		F	H	kg
4	R1/8	<a href="#">3821 04 10</a>	<a href="#">3921 04 10</a>	10	21	0.006
	R1/8	<a href="#">3821 06 10</a>	<a href="#">3921 06 10</a>	10	23	0.007
6	R1/4	<a href="#">3821 06 13</a>	<a href="#">3921 06 13</a>	14	24	0.015
	R1/8	<a href="#">3821 08 10</a>	<a href="#">3921 08 10</a>	11	24	0.008
8	R1/4	<a href="#">3821 08 13</a>	<a href="#">3921 08 13</a>	14	25	0.015
	R1/4	<a href="#">3821 10 13</a>	<a href="#">3921 10 13</a>	19	30	0.020
10	R3/8	<a href="#">3821 10 17</a>	<a href="#">3921 10 17</a>	19	30	0.022
	R1/4	<a href="#">3821 12 13</a>	<a href="#">3921 12 13</a>	19	31	0.017
	R3/8	<a href="#">3821 12 17</a>	<a href="#">3921 12 17</a>	19	31	0.022
12	R1/2	<a href="#">3821 12 21</a>	<a href="#">3921 12 21</a>	22	32	0.040

## 3821/3921 Stud Standpipe, Male NPT Thread

ØD	C	Stainless steel 316L		F	H	kg
4	R1/8	<a href="#">3821 04 11</a>	<a href="#">3921 04 11</a>	10	21	0.006
	R1/8	<a href="#">3821 06 11</a>	<a href="#">3921 06 11</a>	10	23	0.008
6	R1/4	<a href="#">3821 06 14</a>	<a href="#">3921 06 14</a>	14	24	0.016
	R1/8	<a href="#">3821 08 11</a>	<a href="#">3921 08 14</a>	14	24	0.010
8	R1/4	<a href="#">3821 08 14</a>	<a href="#">3921 08 14</a>	14	25	0.016
	R1/4	<a href="#">3821 10 14</a>	<a href="#">3921 10 14</a>	14	30	0.016
10	R3/8	<a href="#">3821 10 18</a>	<a href="#">3921 10 18</a>	17	30	0.022
	R1/4	<a href="#">3821 12 14</a>	<a href="#">3921 12 14</a>	14	31	0.022
	R3/8	<a href="#">3821 12 18</a>	<a href="#">3921 12 18</a>	17	31	0.026
12	R1/2	<a href="#">3821 12 22</a>	<a href="#">3921 12 22</a>	22	32	0.052

## 3821 Stud Standpipe, Male NPT Thread

Inch

ØD	C	Stainless steel 316L		F	H	kg
3/16	NPT1/8	<a href="#">3821 55 11</a>		9.9	24.9	0.009
	NPT1/8	<a href="#">3821 56 11</a>		9.9	25.9	0.009
1/4	NPT1/4	<a href="#">3821 56 14</a>		14	26.9	0.018
	NPT1/4	<a href="#">3821 60 14</a>		19	32	0.018
3/8	NPT3/8	<a href="#">3821 60 18</a>		19	32	0.029
	NPT1/4	<a href="#">3821 62 14</a>		19	36.1	0.033
	NPT3/8	<a href="#">3821 62 18</a>		19	37.1	0.037
1/2	NPT1/2	<a href="#">3821 62 22</a>		22.1	37.1	0.055

5/32" (4 mm) and 5/16" (8 mm) also available

## 3831/3931 Stud Standpipe, Male BSPP and Metric Thread


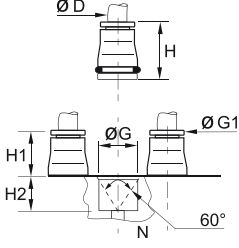


ØD	C	Stainless steel 316L, FKM		F	H	K	kg
4	M5x0.8	<a href="#">3831 04 19</a>	<a href="#">3931 04 19</a>	7	23.5	8	0.005
	G1/8	<a href="#">3831 04 10</a>	<a href="#">3931 04 10</a>	13	22	14	0.008
	G1/4	<a href="#">3831 04 13</a>	<a href="#">3931 04 13</a>	17	22	18.5	0.016
6	G1/8	<a href="#">3831 06 10</a>	<a href="#">3931 06 10</a>	13	24	14	0.009
	G1/4	<a href="#">3831 06 13</a>	<a href="#">3931 06 13</a>	17	24	18.5	0.015
8	G1/8	<a href="#">3831 08 10</a>	<a href="#">3931 08 10</a>	13	25	14	0.010
	G1/4	<a href="#">3831 08 13</a>	<a href="#">3931 08 13</a>	17	27	18.5	0.018
	G3/8	<a href="#">3831 08 17</a>	<a href="#">3931 08 17</a>	21	27	23	0.025
10	G1/4	<a href="#">3831 10 13</a>	<a href="#">3931 10 13</a>	17	32	18.5	0.020
	G3/8	<a href="#">3831 10 17</a>	<a href="#">3931 10 17</a>	21	27	23	0.026
	G1/4	<a href="#">3831 12 13</a>	<a href="#">3931 12 13</a>	17	33	18.5	0.022
12	G3/8	<a href="#">3831 12 17</a>	<a href="#">3931 12 17</a>	21	33	23	0.028
	G1/2	<a href="#">3831 12 21</a>	<a href="#">3931 12 21</a>	24	36	26	0.043

LF 3800 : full 316L stainless steel (body) with 303 stainless steel collet, FKM seals  
 LF 3900 : full 316L, FKM seals

# Stud Fittings

## 3800/3900


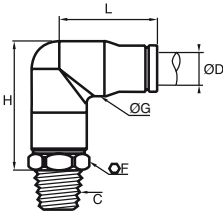


### Cartridge

	Stainless steel 316L, FKM 	ØD			L	G	G1	H	H1	H2	kg
		4	<a href="#">3800 04 00</a>	<a href="#">3900 04 00</a>	9.8	8	17	8.5	8.5	11	0.006
6	<a href="#">3800 06 00</a>	<a href="#">3900 06 00</a>	12.1	10	19	10.5	8.5	13.5	0.008		
8	<a href="#">3800 08 00</a>	<a href="#">3900 08 00</a>	14.8	13	21	12.5	8.5	16	0.012		
10	<a href="#">3800 10 00</a>	<a href="#">3900 10 00</a>	17.5	15	24.5	14	10.5	20	0.019		
12	<a href="#">3800 12 00</a>	<a href="#">3900 12 00</a>	20	17	25	14.5	10.5	22.5	0.023		

Cavity dimensions are available in Chapter 2.  
3800: collet in stainless steel 303  
3900: collet in stainless steel 316L

## 3809/3909


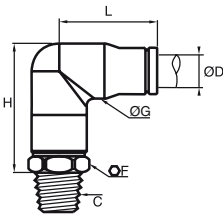

### Stud Elbow, Male BSPT Thread

	Stainless steel 316L, FKM 	ØD	C			F	G	H	L	kg
		4	R1/8	<a href="#">3809 04 10</a>	<a href="#">3909 04 10</a>	10	10	23.5	16.5	0.020
6	R1/8	<a href="#">3809 06 10</a>	<a href="#">3909 06 10</a>	13	12	27.5	20	0.031		
	R1/4	<a href="#">3809 06 13</a>	<a href="#">3909 06 13</a>	14	12	27.5	25	0.036		
8	R1/8	<a href="#">3809 08 10</a>	<a href="#">3909 08 10</a>	14	15	32	25	0.041		
	R1/4	<a href="#">3809 08 13</a>	<a href="#">3909 08 13</a>	14	14.5	34	25	0.046		
10	R1/4	<a href="#">3809 10 13</a>	<a href="#">3909 10 13</a>	19	17.5	37.5	27.5	0.068		
	R3/8	<a href="#">3809 10 17</a>	<a href="#">3909 10 17</a>	19	17.5	37.5	27.5	0.069		

The body swivels for positioning purposes.

## 3809


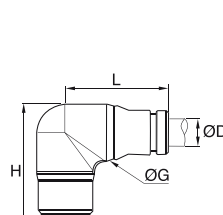


### Stud Elbow, Male NPT Thread

	Stainless steel 316L, FKM 	ØD	C		F	G	H	L	kg
		4	NPT1/8	<a href="#">3809 04 11</a>	11	10	25.5	18.5	0.021
6	NPT1/8	<a href="#">3809 06 11</a>	13	12.5	29	22.5	0.025		
	NPT1/4	<a href="#">3809 06 14</a>	14	12.5	29	22.5	0.030		
8	NPT1/8	<a href="#">3809 08 11</a>	14	15	34	24	0.041		
	NPT1/4	<a href="#">3809 08 14</a>	14	15	34	24	0.046		
10	NPT1/4	<a href="#">3809 10 14</a>	19	17.5	39.5	30	0.057		
	NPT3/8	<a href="#">3809 10 18</a>	19	17.5	39.5	30	0.071		

The body swivels for positioning purposes.

## 3899/3999

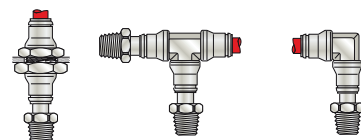
### Stud Elbow, Male BSPP and Metric Thread

	Stainless steel 316L, FKM 	ØD	C			F	G	H	L	kg
		4	M5x0.8	<a href="#">3899 04 19</a>	<a href="#">3999 04 19</a>	10	10	26	18	0.019
G1/8	<a href="#">3899 04 10</a>		<a href="#">3999 04 10</a>	13	10	27	19	0.021		
G1/4	<a href="#">3899 04 13</a>		<a href="#">3999 04 13</a>	17	10	27	19	0.018		
6	M5x0.8	<a href="#">3899 06 19</a>	<a href="#">3999 06 19</a>	13	12	33	24	0.031		
	G1/8	<a href="#">3899 06 10</a>	<a href="#">3999 06 10</a>	6	12	33	24	0.031		
	G1/4	<a href="#">3899 06 13</a>	<a href="#">3999 06 13</a>	17	12	32	24	0.035		
8	G1/8	<a href="#">3899 08 10</a>	<a href="#">3999 08 10</a>	14	15	35	25	0.039		
	G1/4	<a href="#">3899 08 13</a>	<a href="#">3999 08 13</a>	17	15	35	25	0.044		
	G3/8	<a href="#">3899 08 17</a>	<a href="#">3999 08 17</a>	21	15	34.5	25	0.048		
10	G1/4	<a href="#">3899 10 13</a>	<a href="#">3999 10 13</a>	19	17	43	31	0.068		
	G3/8	<a href="#">3899 10 17</a>	<a href="#">3999 10 17</a>	21	17	42	31	0.072		

The body swivels for positioning purposes.

Stud standpipe 3821, 3921, 3831, 3931 can be used as illustrated, allowing:


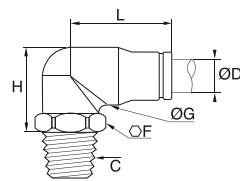


- stock optimisation
- installation of tees and elbows where required



# Stud Fittings

## 3889/3989


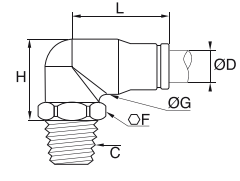

### Compact Stud Elbow, Male BSPT Thread

	Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>			<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>
			4	R1/8	<a href="#">3889 04 10</a>	<a href="#">3989 04 10</a>	13	10	18	17	0.018
				R1/4	<a href="#">3889 04 13</a>	<a href="#">3989 04 13</a>	17	10	19.5	16.5	0.025
			6	R1/8	<a href="#">3889 06 10</a>	<a href="#">3989 06 10</a>	13	12	21.5	20.5	0.026
				R1/4	<a href="#">3889 06 13</a>	<a href="#">3989 06 13</a>	14	12	21.5	20.5	0.032
			8	R1/8	<a href="#">3889 08 10</a>	<a href="#">3989 08 10</a>	14	15	24	22	0.036
				R1/4	<a href="#">3889 08 13</a>	<a href="#">3989 08 13</a>	14	15	24	22	0.041
			10	R1/4	<a href="#">3889 10 13</a>	<a href="#">3989 10 13</a>	17	17.5	28.5	27.5	0.057
				R3/8	<a href="#">3889 10 17</a>	<a href="#">3989 10 17</a>	19	17.5	28.5	27.5	0.062
				R1/4	<a href="#">3889 12 13</a>	<a href="#">3989 12 13</a>	22	20	33.5	30	0.086
			12	R3/8	<a href="#">3889 12 17</a>	<a href="#">3989 12 17</a>	22	20	33.5	30	0.088
				R1/2	<a href="#">3889 12 21</a>	<a href="#">3989 12 21</a>	22	20	33.5	33	0.095

The body swivels for positioning purposes.  
Max. 20 bar

## 3889

### Compact Stud Elbow, Male NPT Thread


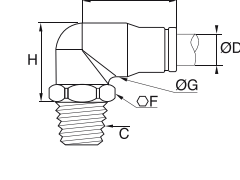

	Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>
			4	NPT1/8	<a href="#">3889 04 11</a>	13	10	17.5	19	0.019
			6	NPT1/8	<a href="#">3889 06 11</a>	13	12.5	20	22.5	0.020
				NPT1/4	<a href="#">3889 06 14</a>	14	12.5	20	22.5	0.033
			8	NPT1/8	<a href="#">3889 08 11</a>	13	15	25	24	0.037
				NPT1/4	<a href="#">3889 08 14</a>	14	15	24	24	0.037
			10	NPT1/4	<a href="#">3889 10 14</a>	17	17.5	27.5	27.5	0.058
				NPT3/8	<a href="#">3889 10 18</a>	19	17.5	28.5	26.5	0.067
				NPT1/4	<a href="#">3889 12 14</a>	22	20	31.5	32.5	0.070
			12	NPT3/8	<a href="#">3889 12 18</a>	22	20	32.5	32.5	0.087
				NPT1/2	<a href="#">3889 12 22</a>	22	20	27.5	32.5	0.072

The body swivels for positioning purposes.  
Max. 20 bar

## 3889

### Compact Stud Elbow, Male NPT Thread


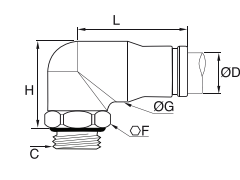


Inch

	Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>
			3/16	NPT1/8	<a href="#">3889 55 11</a>	10	9.9	20.6	19.6	0.019
				NPT1/4	<a href="#">3889 55 14</a>	14	9.9	20.6	19.6	0.022
			1/4	NPT1/8	<a href="#">3889 56 11</a>	13	11.9	21.6	23.1	0.026
				NPT1/4	<a href="#">3889 56 14</a>	14	11.9	21.6	23.1	0.031
			3/8	NPT1/4	<a href="#">3889 60 14</a>	17	17.5	28.4	30.5	0.059
				NPT3/8	<a href="#">3889 60 18</a>	19	17.5	28.4	30.5	0.062
				NPT1/4	<a href="#">3889 62 14</a>	22	20.1	34	33	0.086
			1/2	NPT3/8	<a href="#">3889 62 18</a>	22	20.1	34	33	0.088
				NPT1/2	<a href="#">3889 62 22</a>	22	20.1	27.2	33	0.091

The body swivels for positioning purposes; 5/32" (4 mm) and 5/16" (8 mm) also available.  
Max. 20 bar

## 3879/3979

### Compact Stud Elbow, Male BSPP Thread


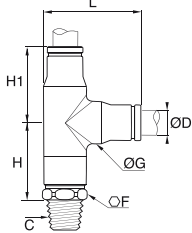


	Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>			<b>F</b>	<b>G</b>	<b>H</b>	<b>L</b>	<b>kg</b>
			4	G1/8	<a href="#">3879 04 10</a>	<a href="#">3979 04 10</a>	10	11	22	19	0.021
				G1/4	<a href="#">3879 04 13</a>	<a href="#">3979 04 13</a>	17	11	20	19	0.026
			6	G1/8	<a href="#">3879 06 10</a>	<a href="#">3979 06 10</a>	13	12	24	24	0.029
				G1/4	<a href="#">3879 06 13</a>	<a href="#">3979 06 13</a>	17	12	22	24	0.034
			8	G1/8	<a href="#">3879 08 10</a>	<a href="#">3979 08 10</a>	13	15	25	25	0.035
				G1/4	<a href="#">3879 08 13</a>	<a href="#">3979 08 13</a>	17	15	25	25	0.040
				G3/8	<a href="#">3879 08 17</a>	<a href="#">3979 08 17</a>	21	15	23	25	0.048
			10	G1/4	<a href="#">3879 10 13</a>	<a href="#">3979 10 13</a>	18	17	43	31	0.056
				G3/8	<a href="#">3879 10 17</a>	<a href="#">3979 10 17</a>	21	17	40	31	0.067
				G1/4	<a href="#">3879 12 13</a>	<a href="#">3979 12 13</a>	17	20	33	33	0.075
			12	G3/8	<a href="#">3879 12 17</a>	<a href="#">3979 12 17</a>	21	20	33	33	0.082
				G1/2	<a href="#">3879 12 21</a>	<a href="#">3979 12 21</a>	24	20	30	33	0.094

The body swivels for positioning purposes.  
Max. 20 bar

# Stud Fittings

## 3803/3903


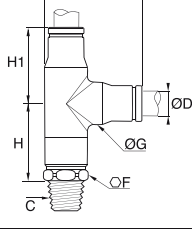

### Stud Run Tee, Male BSPT Thread

		Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>			<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		4	R1/8	<a href="#">3803 04 10</a>	<a href="#">3903 04 10</a>	10	10	19	17	22	22	0.020	
				6	R1/8	<a href="#">3803 06 10</a>	<a href="#">3903 06 10</a>	13	12	22	20	26.5	0.038
					R1/4	<a href="#">3803 06 13</a>	<a href="#">3903 06 13</a>	14	15	22	20	27	0.035
				8	R1/8	<a href="#">3803 08 10</a>	<a href="#">3903 08 10</a>	14	15	24	23	31	0.050
					R1/4	<a href="#">3803 08 13</a>	<a href="#">3903 08 13</a>	14	15	24	23	31	0.055
				10	R1/4	<a href="#">3803 10 13</a>	<a href="#">3903 10 13</a>	19	17.5	30	29	38	0.070
					R3/8	<a href="#">3803 10 17</a>	<a href="#">3903 10 17</a>	19	17.5	30	29	38	0.084

The body swivels for positioning purposes.

## 3803


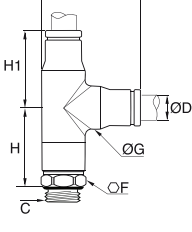


### Stud Run Tee, Male NPT Thread

		Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		4	NPT1/8	<a href="#">3803 04 11</a>	11	10	21	19	25	0.020		
				6	NPT1/8	<a href="#">3803 06 11</a>	13	12	24	21	27	0.031
					NPT1/4	<a href="#">3803 06 14</a>	14	12	24	21	27.5	0.037
				8	NPT1/8	<a href="#">3803 08 11</a>	14	15	26.5	24	30.5	0.050
					NPT1/4	<a href="#">3803 08 14</a>	14	15	26.5	24	30.5	0.048
				10	NPT1/4	<a href="#">3803 10 14</a>	19	17.5	31	29.5	37.5	0.084

The body swivels for positioning purposes.

## 3893/3993


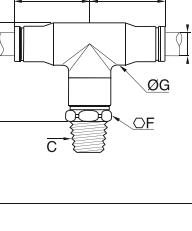


### Stud Run Tee, Male BSPP and Metric Thread

		Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>			<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		4	M5x0.8	<a href="#">3893 04 19</a>	<a href="#">3993 04 19</a>	10	11	21.5	19	24.5	0.023		
				4	G1/8	<a href="#">3893 04 10</a>	<a href="#">3993 04 10</a>	13	11	21.5	19	24.5	0.026
					G1/4	<a href="#">3893 04 13</a>	<a href="#">3993 04 13</a>	17	11	22	19	28	0.033
				6	G1/8	<a href="#">3893 06 10</a>	<a href="#">3993 06 10</a>	13	12	26.5	24	30	0.038
					G1/4	<a href="#">3893 06 13</a>	<a href="#">3993 06 13</a>	17	12	26	24	32	0.044
				8	G1/8	<a href="#">3893 08 10</a>	<a href="#">3993 08 10</a>	14	15	27.5	25	32	0.049
					G1/8	<a href="#">3893 08 13</a>	<a href="#">3993 08 13</a>	17	15	28	25	33.5	0.054
				10	G3/8	<a href="#">3893 08 17</a>	<a href="#">3993 08 17</a>	21	15	27	25	35.5	0.094
					G1/4	<a href="#">3893 10 13</a>	<a href="#">3993 10 13</a>	19	17	35.5	31	39.5	0.081
					G3/8	<a href="#">3893 10 17</a>	<a href="#">3993 10 17</a>	21	17	35.5	31	39.5	0.082

The body swivels for positioning purposes.

## 3808/3908

### Stud Branch Tee, Male BSPT Thread

		Stainless steel 316L, FKM		<b>ØD</b>	<b>C</b>			<b>F</b>	<b>G</b>	<b>H</b>	<b>L/2</b>	<b>kg</b>
		4	R1/8	<a href="#">3808 04 10</a>	<a href="#">3908 04 10</a>	10	10	23.5	19	0.020		
				6	R1/8	<a href="#">3808 06 10</a>	<a href="#">3908 06 10</a>	13	12	27.5	24	0.038
					R1/4	<a href="#">3808 06 13</a>	<a href="#">3908 06 13</a>	14	12	27.5	24	0.043
				8	R1/8	<a href="#">3808 08 10</a>	<a href="#">3908 08 10</a>	14	15	32	25	0.049
					R1/4	<a href="#">3808 08 13</a>	<a href="#">3908 08 13</a>	14	15	32	25	0.048
				10	R3/8	<a href="#">3808 08 17</a>	<a href="#">3908 08 17</a>	19	15	33	25	0.068
					R1/4	<a href="#">3808 10 13</a>	<a href="#">3908 10 13</a>	19	17.5	37.5	31	0.081
					R3/8	<a href="#">3808 10 17</a>	<a href="#">3908 10 17</a>	19	17.5	37.5	31	0.070

The body swivels for positioning purposes.

These models enable compact connection for elbow outlets, thus allowing space saving.

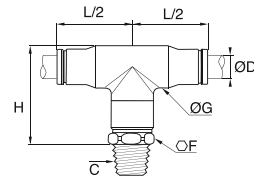
# Stud Fittings

## 3808

### Stud Branch Tee, Male NPT Thread



Stainless steel 316L, FKM



ØD	C		F	G	H	L/2	kg
4	NPT1/8	<a href="#">3808 04 11</a>	11	10	22	19	0.021
	NPT1/8	<a href="#">3808 06 11</a>	13	12.5	30	24	0.031
6	NPT1/4	<a href="#">3808 06 14</a>	14	12.5	30	24	0.044
	NPT1/8	<a href="#">3808 08 11</a>	14	15	34	25	0.042
8	NPT1/4	<a href="#">3808 08 14</a>	14	15	34	25	0.048
	NPT1/4	<a href="#">3808 10 14</a>	19	17.5	40	31	0.069
10	NPT3/8	<a href="#">3808 10 18</a>	19	17.5	40	31	0.084

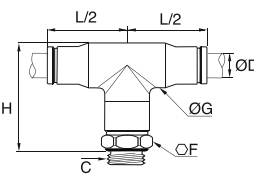
The body swivels for positioning purposes.

## 3898/3998

### Stud Branch Tee, Male BSPP and Metric Thread



Stainless steel 316L, FKM



ØD	C			F	G	H	L/2	kg
4	M5x0.8	<a href="#">3898 04 19</a>	<a href="#">3998 04 19</a>	10	11	27	19	0.024
	G1/8	<a href="#">3898 04 10</a>	<a href="#">3998 04 10</a>	13	11	27	19	0.026
	G1/4	<a href="#">3898 04 13</a>	<a href="#">3998 04 13</a>	17	11	27	19	0.032
6	M5x0.8	<a href="#">3898 06 19</a>	<a href="#">3998 06 19</a>	13	12	33.5	24	0.038
	G1/8	<a href="#">3898 06 10</a>	<a href="#">3998 06 10</a>	13	12	33	24	0.038
	G1/4	<a href="#">3898 06 13</a>	<a href="#">3998 06 13</a>	17	12	32	24	0.043
8	G1/8	<a href="#">3898 08 10</a>	<a href="#">3998 08 10</a>	14	15	35	25	0.051
	G1/4	<a href="#">3898 08 13</a>	<a href="#">3998 08 13</a>	17	15	35	25	0.054
	G3/8	<a href="#">3898 08 17</a>	<a href="#">3998 08 17</a>	21	15	34.5	25	0.058
10	G1/4	<a href="#">3898 10 13</a>	<a href="#">3998 10 13</a>	19	17	43	31	0.082
	G3/8	<a href="#">3898 10 17</a>	<a href="#">3998 10 17</a>	21	17	41	31	0.087

The body swivels for positioning purposes.


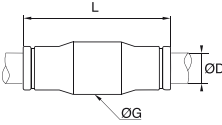


LF 3800 : full 316L stainless steel (body) with 303 stainless steel collet, FKM seals  
 LF 3900 : full 316L, FKM seals



# Tube-to-Tube Fittings

## 3806/3906


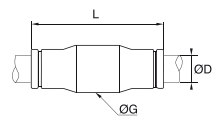


### Equal Straight Connector

	Stainless steel 316L, FKM 	<b>ØD</b>			<b>G</b>	<b>L</b>	<b>kg</b>
		4	<a href="#">3806 04 00</a>	<a href="#">3906 04 00</a>	10	29	0.009
		6	<a href="#">3806 06 00</a>	<a href="#">3906 06 00</a>	12	34	0.015
		8	<a href="#">3806 08 00</a>	<a href="#">3906 08 00</a>	15	36	0.019
		10	<a href="#">3806 10 00</a>	<a href="#">3906 10 00</a>	17.5	45	0.032
		12	<a href="#">3806 12 00</a>	<a href="#">3906 12 00</a>	20	46.5	0.041

## 3806/3906

### Equal Straight Connector


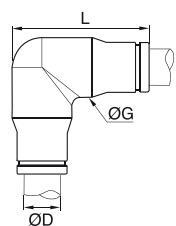


Inch

	Stainless steel 316L, FKM 	<b>ØD</b>			<b>G</b>	<b>L</b>	<b>kg</b>
		3/16	<a href="#">3806 55 00</a>	<a href="#">3906 55 00</a>	9.9	30	0.010
		1/4	<a href="#">3806 56 00</a>	<a href="#">3906 56 00</a>	11.9	35.1	0.015
		3/8	<a href="#">3806 60 00</a>	<a href="#">3906 60 00</a>	17.5	46	0.030
		1/2	<a href="#">3806 62 00</a>	<a href="#">3906 62 00</a>	20.1	48	0.040

5/32" (4 mm) and 5/16" (8 mm) also available

## 3802/3902


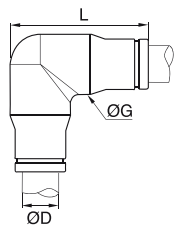


### Equal Stud Elbow

	Stainless steel 316L, FKM 	<b>ØD</b>			<b>G</b>	<b>L</b>	<b>kg</b>
		4	<a href="#">3802 04 00</a>	<a href="#">3902 04 00</a>	10	21.5	0.015
		6	<a href="#">3802 06 00</a>	<a href="#">3902 06 00</a>	12	26.5	0.024
		8	<a href="#">3802 08 00</a>	<a href="#">3902 08 00</a>	15	29.5	0.031
		10	<a href="#">3802 10 00</a>	<a href="#">3902 10 00</a>	17.5	36.5	0.051
		12	<a href="#">3802 12 00</a>	<a href="#">3902 12 00</a>	20	40	0.069

## 3802/3902

### Equal Stud Elbow


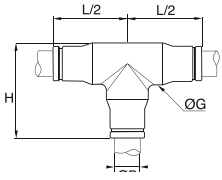


Inch

	Stainless steel 316L, FKM 	<b>ØD</b>			<b>G</b>	<b>L</b>	<b>kg</b>
		3/16	<a href="#">3802 55 00</a>	<a href="#">3902 55 00</a>	9.9	24.4	0.011
		1/4	<a href="#">3802 56 00</a>	<a href="#">3902 56 00</a>	11.9	29	0.023
		3/8	<a href="#">3802 60 00</a>	<a href="#">3902 60 00</a>	17.5	39.6	0.042
		1/2	<a href="#">3802 62 00</a>	<a href="#">3902 62 00</a>	20.1	40.9	0.070

5/32" (4 mm) and 5/16" (8 mm) also available

## 3804/3904

### Equal Tee

	Stainless steel 316L, FKM 	<b>ØD</b>			<b>G</b>	<b>L</b>	<b>L/2</b>	<b>kg</b>
		4	<a href="#">3804 04 00</a>	<a href="#">3904 04 00</a>	10	22	19	0.015
		6	<a href="#">3804 06 00</a>	<a href="#">3904 06 00</a>	12	26	24	0.031
		8	<a href="#">3804 08 00</a>	<a href="#">3904 08 00</a>	15	29.5	25	0.041
		10	<a href="#">3804 10 00</a>	<a href="#">3904 10 00</a>	17.5	36.5	31	0.064
		12	<a href="#">3804 12 00</a>	<a href="#">3904 12 00</a>	20	40	33	0.064

# Bulkhead Connector Fittings

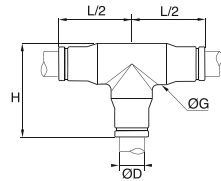
## 3804/3904

### Equal Tee

Inch



Stainless steel 316L, FKM



ØD			G	H	L/2	kg
3/16	<a href="#">3804 55 00</a>	<a href="#">3904 55 00</a>	9.9	22.6	19	0.017
1/4	<a href="#">3804 56 00</a>	<a href="#">3904 56 00</a>	11.9	26.9	22	0.031
3/8	<a href="#">3804 60 00</a>	<a href="#">3904 60 00</a>	17.5	37.6	30	0.059
1/2	<a href="#">3804 62 00</a>	<a href="#">3904 62 00</a>	20.1	40.9	32	0.090

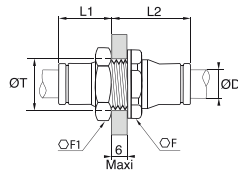
5/32" (4 mm) and 5/16" (8 mm) also available

## 3816/3916

### Equal Bulkhead Connector



Stainless steel 316L, FKM



ØD			F	F1	L1	L2	ØT	kg
4	<a href="#">3816 04 00</a>	<a href="#">3916 04 00</a>	13	14	13.5	19.5	13	0.017
6	<a href="#">3816 06 00</a>	<a href="#">3916 06 00</a>	17	17	16.5	21.5	14	0.027
8	<a href="#">3816 08 00</a>	<a href="#">3916 08 00</a>	19	19	18	24	16	0.034
10	<a href="#">3816 10 00</a>	<a href="#">3916 10 00</a>	22	22	21.5	27.5	21	0.049
12	<a href="#">3816 12 00</a>	<a href="#">3916 12 00</a>	24	24	24	29	23	0.059

IP51 sealing

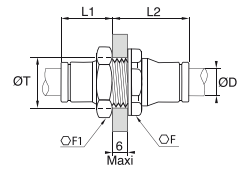
## 3816/3916

### Equal Bulkhead Connector

Inch



Stainless steel 316L, FKM



ØD			F	F1	L1	L2	ØT	kg
3/16	<a href="#">3816 55 00</a>	<a href="#">3916 55 00</a>	17	13	15	21.1	12.4	0.019
1/4	<a href="#">3816 56 00</a>	<a href="#">3916 56 00</a>	19	17	17	22.6	14.5	0.027
3/8	<a href="#">3816 60 00</a>	<a href="#">3916 60 00</a>	27	22	22.1	27.4	20.6	0.052
1/2	<a href="#">3816 62 00</a>	<a href="#">3916 62 00</a>	27	27	20	29	20.1	0.076

IP51 sealing

5/32" (4 mm) and 5/16" (8 mm) also available


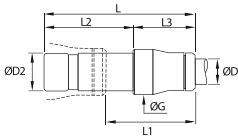


LF 3800/LF 3900 push-in fittings allow connection with several types of Parker Legris tubing shown in Chapter 3 of this catalogue, "Technical Tubing and Hose":

- PFA tubing
- Fluoropolymer tubing
- Polyethylene tubing
- Semi-rigid polyamide and flexible Crystal polyurethane tubing

# Plug-In Fittings and Accessories


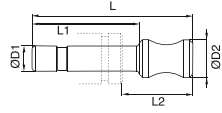

## 3866/3966

### Push-In Reducer

	Stainless steel 316L, FKM 			<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>kg</b>
		4 6 <a href="#">3866 04 06</a> <a href="#">3966 04 06</a> 10 35 19 19 16 0.009 8 <a href="#">3866 04 08</a> <a href="#">3966 04 08</a> 10 34 17 20 14 0.011 6 8 <a href="#">3866 06 08</a> <a href="#">3966 06 08</a> 12 42 24 23 19 0.015 10 <a href="#">3866 06 10</a> <a href="#">3966 06 10</a> 12 41 19 25 16 0.019 8 10 <a href="#">3866 08 10</a> <a href="#">3966 08 10</a> 15 45 22.5 25 20 0.021 12 <a href="#">3866 08 12</a> <a href="#">3966 08 12</a> 15 43 20 26 17 0.025 10 12 <a href="#">3866 10 12</a> <a href="#">3966 10 12</a> 17 50 23 26 24 0.029							


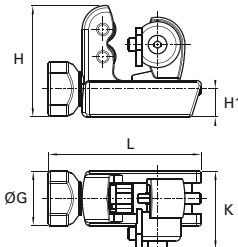


## 3826

### Blanking Plug

	Stainless steel 316L 		<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		4 6 <a href="#">3826 04 00</a> 25 17 11 0.003 6 8 <a href="#">3826 06 00</a> 30.4 19.5 13.5 0.007 8 10 <a href="#">3826 08 00</a> 33 20 14 0.014 10 12 <a href="#">3826 10 00</a> 40 25 17 0.025 12 14 <a href="#">3826 12 00</a> 43 26 19 0.038				

## 3800/3900



### Pre-Grooving Tool for Stainless Steel Tubing

	Treated steel 			<b>G</b>	<b>H</b>	<b>H1</b>	<b>K</b>	<b>L</b>	<b>kg</b>
		<a href="#">3800 70 00</a> <a href="#">3900 70 00</a> 25 51 13 36 70 0.326							

This tool correctly pre-grooves 4-12 mm O.D. and 3/16"-1/2" O.D. stainless steel tubing, to ensure that the LF 3800/LF 3900 collet grips the tube securely.

## 0605

### Fluoropolymer Tape

	FKM		<b>kg</b>
		<a href="#">0605 12 12</a> 0.012	

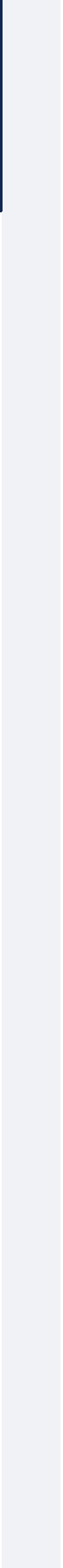
Can be used for temperatures from -250°C to +260°C.  
 Chemically inert and resistant to gases, acids, solvents, hydrocarbons, oils, alkalines, steam, etc.  
 Non-toxic, waterproof, self-lubricating.  
 In accordance with CFR21.  
 Can be used on all materials.  
 Used to facilitate the preparation of leak-free threaded joints.  
 Supplied on a reel: length = 12 m; width = 12.7 mm; thickness = 0.08 mm.

## 3000

### Disconnection Tool

	Treated steel 		<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<a href="#">3000 70 00</a> 25 20 96 0.021				

For disconnecting push-in tubing/fittings where access is difficult, we recommend the use of this disconnection tool.



# LF 6100 Push-In Fittings Range

## Stud Fittings

### Straights

**6105**  
BSPT/Metric Taper  
Page 1-91

**6101**  
Metric Parallel  
Page 1-91

**6114**  
Metric Parallel  
Page 1-91



### Elbow

**6179**  
BSPT Metric Taper  
Page 1-91



## Tube-to-Tube Fittings

### Straight

**6106**  
Page 1-92



### Tee

**6104**  
Page 1-92



## Accessory

**0138**  
Page 1-92



# LF 6100 Push-In Fittings

This fittings range dedicated to **lubrication and vacuum systems**, combines very high performance and manual connection. This technology **secures the connection** and sealing performance, even at high pressure.

## Product Advantages

**Robust** | Designed for mechanically demanding environments  
Excellent pressure and temperature resistance  
Stamped brass forgings for increased service life

**Secure & Reliable** | Perfect sealing guaranteed by the three rings  
The two sealing O-rings positioned before the gripping ring endure no scratching on the tube in the sealing area  
Manual connection for time-saving  
No fluid loss  
Tube cannot be disconnected without the use of a spanner  
Up to 60 bar with rigid polymer or grooved metal tubing  
100% leak-tested in production



Construction Equipment  
Lubrication  
Transportation  
Measurement Systems  
Industrial Machines  
Industrial Vacuum

Applications

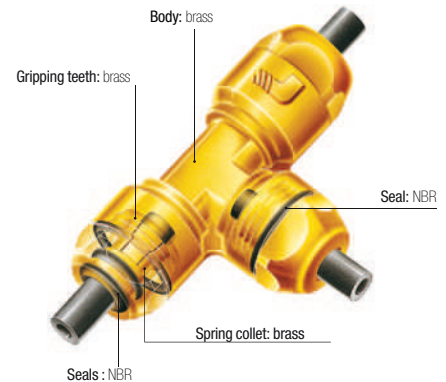
## Technical Characteristics

<b>Compatible Fluids</b>	Lubricants, compressed air, vacuum, other fluids and compatible gases
<b>Working Pressure</b>	Vacuum to 60 bar
<b>Working Temperature</b>	-20° to +120°C

<b>Max./Min. Tightening Torques (daN.m)</b>	<b>Thread</b>	M6 x1	M8 x1	M8 x1.25	M10 x1	M12 x1	M14 x1.5	R 1/8	R 1/4
	<b>Taper</b>	0.2/0.6	0.2/1.2	0.2/1	0.2/1.2	0.2/2	0.5/1.5	0.2/1.0	0.5/1.5
	<b>Parallel</b>	-	0.6/1	-	0.6/1	1.8/2.2	-	-	-

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

DI: 94/9/EC (ATEX )  
RG: 1907/2006 (REACH)

### Performance


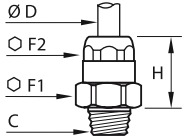

#### Working Pressure / Temperature According to the Tubing Used

O.D. of Tube	-20°C to +20°C		+20°C to +30°C		+30°C to +50°C		+50°C to +80°C		+80°C to 120°C
	Semi-Rigid PA	Rigid PA	Semi-Rigid PA	Rigid PA	Semi-Rigid PA	Rigid PA	Semi-Rigid PA	Rigid PA	FEP
2x4	40	-	33	-	25.5	-	19	-	-
2.5x4	-	52	-	43	-	32	-	24.5	7
2.7x4	23	-	19	-	15	-	11	-	-
4x6	24	45	20	37	15.5	29	11	21	6
5x8	-	52	-	43	-	33	-	24	-
6x8	17	32	14	27	11	21	8	15	4
6x10	-	57	-	47	-	37	-	27	-
7.5x10	17	-	14	-	11	-	8	-	-
8x10	14	-	12	-	9	-	7	-	3


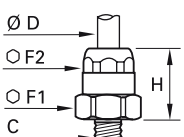

Should your requirement not be covered by our standard range, please consult us for customised fittings.

# Stud Fittings


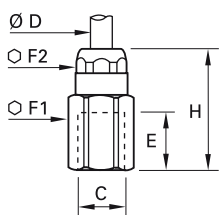

## 6105 Stud Fitting, Male BSPT and Taper Metric Thread

	Brass, NBR 	<b>ØD</b>	<b>C</b>		<b>F1</b>	<b>F2</b>	<b>H</b>	<b>kg</b>
		4	M6x1	<a href="#">6105 04 52</a>	13	11	16.5	0.013
		4	M8x1	<a href="#">6105 04 56</a>	13	11	14.5	0.012
		4	M8x1.25	<a href="#">6105 04 57</a>	13	11	14.5	0.012
		4	M10x1	<a href="#">6105 04 60</a>	13	11	14.5	0.014
		4	R1/8	<a href="#">6105 04 10</a>	13	11	14.5	0.014
		4	R1/4	<a href="#">6105 04 13</a>	14	11	12.5	0.018
		6	M10x1	<a href="#">6105 06 60</a>	17	14	16.5	0.024
		6	R1/8	<a href="#">6105 06 10</a>	17	14	17.5	0.026
		6	M14x1.5	<a href="#">6105 06 71</a>	17	14	16.5	0.028
		6	R1/4	<a href="#">6105 06 13</a>	17	14	16.5	0.030
		8	M12x1	<a href="#">6105 08 65</a>	19	21	24	0.041
		10	M14x1.5	<a href="#">6105 10 71</a>	22	24	26	0.005


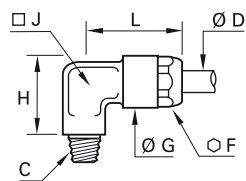

## 6101 Stud Fitting, Male Parallel and Metric Thread

	Brass, NBR 	<b>ØD</b>	<b>C</b>		<b>F1</b>	<b>F2</b>	<b>H</b>	<b>kg</b>
		4	M10x1	<a href="#">6101 04 60</a>	13	11	14	0.014
		6	M10x1	<a href="#">6101 06 60</a>	17	14	17.5	0.026
			M12x1	<a href="#">6101 06 65</a>	17	14	16.5	0.025

## 6114 Stud Fitting, Female Metric Parallel Thread


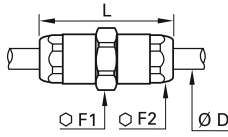

	Brass, NBR 	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F1</b>	<b>F2</b>	<b>H</b>	<b>kg</b>
		4	M8x1	<a href="#">6114 04 56</a>	8	13	11	25.5	0.021
		6	M8x1	<a href="#">6114 06 56</a>	8	17	14	28.5	0.043

## 6179 Stud Elbow, Male BSPT and Taper Metric Thread


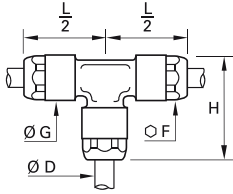

	Brass, NBR 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
			M6x1	<a href="#">6179 04 52</a>	11	12.5	14.5	6	20	0.014
			M8x1	<a href="#">6179 04 56</a>	11	12.5	15	6	20	0.015
			M8x1.25	<a href="#">6179 04 57</a>	11	12.5	15	6	20	0.015
		4	M10x1	<a href="#">6179 04 60</a>	11	12.5	15.5	6	20	0.016
			R1/8	<a href="#">6179 04 10</a>	11	12.5	15.5	6	20	0.017
			R1/4	<a href="#">6179 04 13</a>	11	12.5	17	6	20	0.022
			M10x1	<a href="#">6179 06 60</a>	14	16	18	8	25.5	0.030
		6	M12x1	<a href="#">6179 06 65</a>	14	16	18	8	25.5	0.030
			R1/8	<a href="#">6179 06 10</a>	14	16	18	8	25.5	0.030
			R1/4	<a href="#">6179 06 13</a>	14	16	19	8	25.5	0.035
		8	M12x1	<a href="#">6179 08 65</a>	17	19	21	10	30	0.047

# Tube-to-Tube Fittings


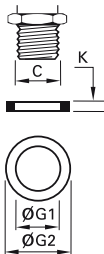

## 6106 Tube-to-Tube Connector

	Brass, NBR 	<b>ØD</b>		<b>F1</b>	<b>F2</b>	<b>L</b>	<b>kg</b>
		4	<a href="#">6106 04 00</a>	13	11	34	0.025
		6	<a href="#">6106 06 00</a>	17	14	39	0.044
		8	<a href="#">6106 08 00</a>	19	17	46	0.069

## 6104 Equal Tee

	Brass, NBR 	<b>ØD</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>L/2</b>	<b>kg</b>
		4	<a href="#">6104 04 00</a>	11	12.5	26.5	20	0.032
		6	<a href="#">6104 06 00</a>	14	16	32.5	25.5	0.066
		8	<a href="#">6104 08 00</a>	17	19	38	30	0.103

## 0138 Copper Washer

	Copper 	<b>C</b>		<b>G1</b>	<b>G2</b>	<b>K</b>	<b>kg</b>
		M8	<a href="#">0138 08 00</a>	8.3	11	1	0.001
		M10	<a href="#">0138 10 00</a>	10.3	13.5	1	0.001
		M12	<a href="#">0138 12 00</a>	12.3	15.5	1.3	0.072

DIN 7603  
ISO 65061

### Related Products

The Parker Legris push-in system for centralised lubrication is designed for use with various polymer tubing found in Chapter 3, "Technical Tubing and Hose":

- Fireproof High Resistance PA Tubing
- Rigid and Semi-Rigid Calibrated Polyamide Tubing
- Fluoropolymer Tubing







# Cartridges and Customised Products





# Cartridges

## Polymer Cartridges

### Compressed Air

**3100**  
Carstick®  
Page 2-8



**3086**  
Quick Fitting  
Page 2-8



**3089**  
Quick Fitting  
Page 2-8



**3082**  
Quick Fitting  
Page 2-8



**3081**  
Quick Fitting  
Page 2-9



**3088**  
Quick Fitting  
Page 2-9



**3100 - Inch**  
Carstick®  
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### Fluids and Gases

**6300**  
Carstick® LIQUIfit®  
Page 2-10



**6300 - Inch**  
Carstick® LIQUIfit®  
Page 2-10



## Metal Cartridges

### Fluids and Gases

**3600**  
Page 2-13



**3800**  
**3900**  
Page 2-13



**TL**  
Page 2-13



**TLT**  
Disconnection  
Tool  
Page 2-13



# Polymer Cartridges: LF 3000® and LIQUIfit® Carstick®, Quick Fitting

Parker Legris has developed the range of patented **Carstick®** cartridges guaranteeing **the integrity of the sealing system** before and after assembly in non-threaded cavities. The **compact design** of the one-piece Carstick® cartridge enables **automation** of your manufacturing process and improves the **reliability** of your system.

## Product Advantages

- Time-Saving**
  - No thread to be machined for inserting the fitting into its cavity
  - Seal pre-assembled, greased and protected
  - Self-centring of the cartridge in the cavity
  - Product protected against contamination, from manufacture to installation
  - Possible to have several diameters of tube in the same cavity (Quick Fitting)
- Proven Technology**
  - Technical performances of the LF 3000®
  - Push-in connection
  - Full flow
  - Optimum flow at pressure and vacuum
  - LIQUIfit® Carstick® compatible with drinking water and food fluids
- Automated Installation**
  - Ensures that the product will be correctly assembled
  - Connection fully integrated in the cavity
  - Carstick® packaging designed for an automatic assembly process

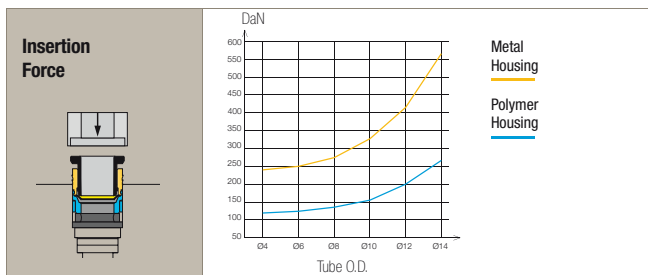


- Applications**
- Robotics
  - Automotive Process
  - Pneumatics
  - Semi-Conductors
  - Water & Beverage
  - Packaging
  - Vacuum

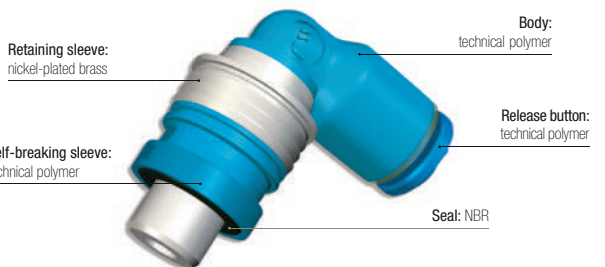
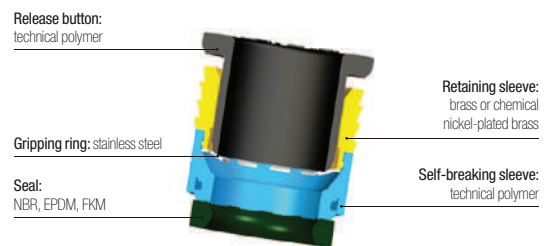
## Technical Characteristics

	LF 3000® Carstick® and Quick Fitting	LIQUIfit® Carstick®
<b>Compatible Fluids</b>	Compressed air	Food fluids, inert gases
<b>Working Pressure</b>	Vacuum to 20 bar	Vacuum to 16 bar*
<b>Working Temperature</b>	-20°C to +80°C	-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). \*The pressure / temperature information is shown in Chapter 1, in the "LIQUIfit®" section.



### Component Materials



**Silicone-free**

### Regulations

#### LF 3000® Carstick® and Quick Fitting

ISO 14743: Pneumatic fluid power, push-in fittings for thermoplastic tubes  
 DI: 2002/95/CE (RoHS), 2011/65/CE  
 DI: 97/23/CE (PED)

#### LIQUIfit® Carstick®

RG: 1935/2004/CE  
 FDA: 21 CFR 177.1550  
 NSF 51 to 95°C  
 ACS  
 DM 174 (Italy)

DI: 2002/95/CE (RoHS), 2011/65/CE

DI: 97/23/CE (PED)

WRAS

NSF/ANSI 61 - C HOT

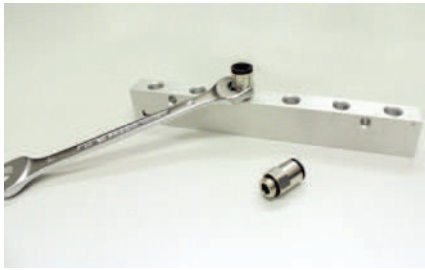
KTW: cartridges on request

# Assembly Options

Cartridge solutions quickly pay for themselves when they enable production to be rationalised:

## Threaded Fittings

**For small quantities or non-standard assembly operations:**  
The threaded solution remains the most advantageous.



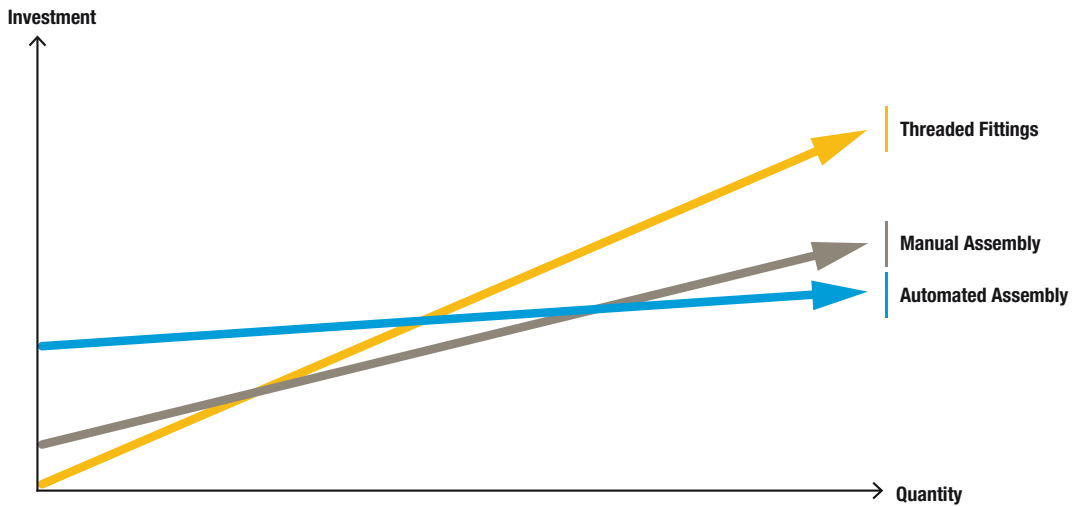
## Carstick®: Manual Assembly

**For medium quantities:**  
Assembly by manually-operated press offers the most economic solution.



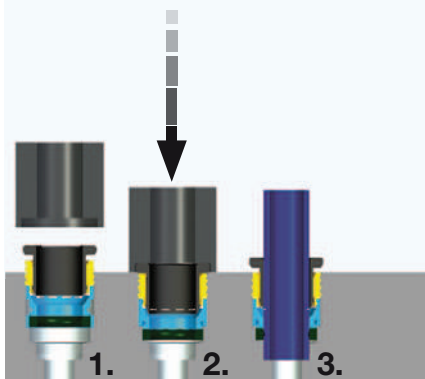
## Carstick®: Automated Assembly

**For repetitive operations and large quantities:**  
Investment in an automated manufacturing solution is quickly recovered, providing significant long-term savings.

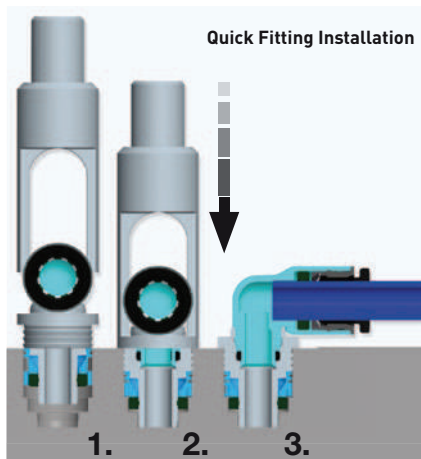


## Installation

### Carstick® Installation



### Quick Fitting Installation



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.

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


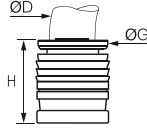

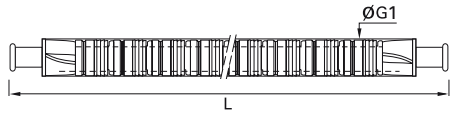


**Assembly tool:**  
For details on the assembly tool,  
please contact us.




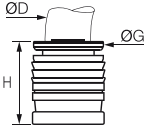

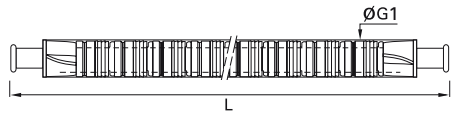
# Polymer Cartridges for Compressed Air

## 3100 Carstick® Cartridge


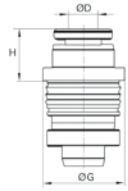

	Brass, NBR 	<b>ØD</b> 	<b>G</b>	<b>G1</b>	<b>H</b>	<b>L</b>	<b>kg</b>	
		4	<a href="#">3100 04 00</a>	8	11	10	554	0.001
		6	<a href="#">3100 06 00</a>	10	14.5	11.5	629	0.002
		8	<a href="#">3100 08 00</a>	13	15	15	794	0.002
		10	<a href="#">3100 10 00</a>	15.5	19.5	17	930	0.005
		12	<a href="#">3100 12 00</a>	19.5	21	19.5	1038	0.010
50 cartridges per Carstick®								
								

## 3100 Carstick® Cartridge


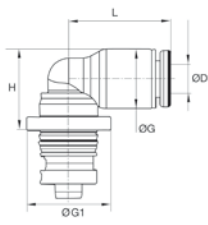

Inch

	Nickel-plated brass, NBR 	<b>ØD</b> 	<b>G</b>	<b>G1</b>	<b>H</b>	<b>L</b>	<b>kg</b>	
		1/8	<a href="#">3100 53 00 99</a>	7	10	9	508	0.002
		1/4	<a href="#">3100 56 00 99</a>	10.5	14.5	12	600	0.003
		3/8	<a href="#">3100 60 00 99</a>	15.5	19	16.5	930	0.006
50 cartridges per Carstick® 5/32" (4 mm) and 5/16" (8 mm) also available								
								


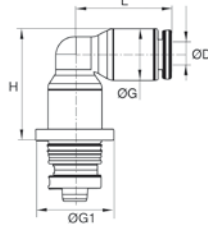

## 3086 Quick Fitting Reducer

	Nickel-plated brass, NBR 	<b>ØD</b> 	<b>Cavity</b>	<b>G</b>	<b>H</b>	<b>kg</b>	
		4	<a href="#">3086 04 06</a>	6	12.5	7	0.005
		6	<a href="#">3086 06 08</a>	8	14	7.5	0.008
Available on request							

## 3089 Quick Fitting Elbow

	Technical polymer, nickel-plated brass, NBR 	<b>ØD</b> 	<b>Cavity</b>	<b>G</b>	<b>G1</b>	<b>H</b>	<b>L</b>	<b>kg</b>	
		4	<a href="#">3089 04 04</a>	4	9	12.5	11.5	15	0.004
			<a href="#">3089 04 06</a>	6	9	12.5	11.5	15	0.005
			<a href="#">3089 06 04</a>	4	11	12.5	14	17	0.004
		6	<a href="#">3089 06 06</a>	6	11	12.5	12.5	17	0.006
			<a href="#">3089 06 08</a>	8	11	14.5	13	17	0.010
			<a href="#">3089 08 08</a>	8	13.5	14.5	16	23	0.011
		8	<a href="#">3089 08 10</a>	10	13.5	19	16	23	0.021
			<a href="#">3089 10 10</a>	10	16	19	19	26.5	0.017
			<a href="#">3089 10 12</a>	12	16	20	19	26.5	0.028
		12	<a href="#">3089 12 12</a>	12	19	20	22	31	0.030

## 3082 Quick Fitting Extended Elbow

	Technical polymer, nickel-plated brass, NBR 	<b>ØD</b> 	<b>Cavity</b>	<b>G</b>	<b>G1</b>	<b>H</b>	<b>L</b>	<b>kg</b>		
		4	<a href="#">3082 04 04</a>	4	9	12.5	16	15	0.006	
			<a href="#">3082 04 06</a>	6	9	12.5	15	15	0.009	
			<a href="#">3082 06 06</a>	6	9	12.5	23	19	0.010	
		6	<a href="#">3082 06 08</a>	8	10.5	14	29	18.5	0.014	
			<a href="#">3082 08 08</a>	8	13.5	17	29.5	22.5	0.021	
			<a href="#">3082 08 10</a>	10	13.5	19	29	23	0.025	
		10	<a href="#">3082 10 10</a>	10	16	20	33	26	0.029	
			<a href="#">3082 10 12</a>	12	16	20	33	26	0.040	
			<a href="#">3082 12 12</a>	12	19	23	39	31	0.056	
		Available on request								

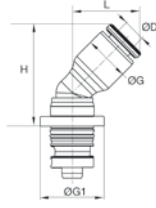


# Polymer Cartridges for Compressed Air

## 3081 Quick Fitting 45° Elbow



Technical polymer, nickel-plated brass, NBR



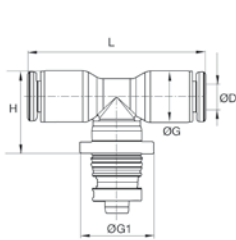
ØD		Cavity	G	G1	H	L	kg
4	<a href="#">3081 04 04</a>	4	9	12.5	19	13	0.004
6	<a href="#">3081 06 06</a>	6	11	12.5	22	14.5	0.006
8	<a href="#">3081 08 08</a>	8	13.5	14.5	26	19	0.011
10	<a href="#">3081 10 10</a>	10	16	19	30	22	0.017
12	<a href="#">3081 12 12</a>	12	19	20	35.5	26	0.031

Available on request

## 3088 Quick Fitting Tee

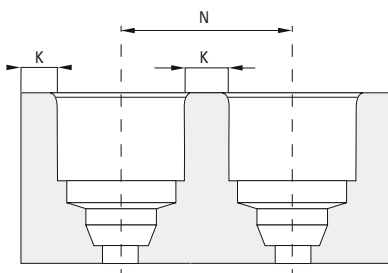
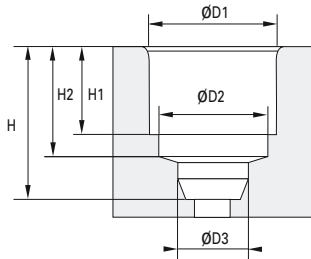


Technical polymer, nickel-plated brass, NBR



ØD		Cavity	G	G1	H	L	kg
4	<a href="#">3088 04 04</a>	4	9	12.5	14	30	0.005
	<a href="#">3088 04 06</a>	6	8.6	12.5	12.5	29.5	0.006
6	<a href="#">3088 06 06</a>	6	11	12.5	14.5	34	0.007
	<a href="#">3088 06 08</a>	8	10.6	14.5	15	33.5	0.011
8	<a href="#">3088 08 08</a>	8	14	14.5	19	46	0.013
	<a href="#">3088 08 10</a>	10	14	19	19	46	0.023
10	<a href="#">3088 10 10</a>	10	16	19	21	53	0.020
	<a href="#">3088 10 12</a>	12	16	20	21	53	0.031
12	<a href="#">3088 12 12</a>	12	19	20	24	61	0.035

## Cavity Dimensions



### Carstick® et Quick Fitting

Metric

Cavity	ØD3	H	H1	H2
4	4.1	10	6	8.15
6	6.1	12	7.5	9.65
8	8.15	15.5	9.9	12.45
10	10.25	19	11.7	14.35
12	12.17	22	13.9	16.75

### Carstick®

Inch

Cavity	ØD3	H	H1	H2
1/8	3.25	7.45	5.3	9.5
5/32*	4.1	8.15	6	10
1/4	6.45	10.15	8	12.5
5/16*	8.15	12.45	9.9	15.5
3/8	9.65	14.35	11.7	19

### Polyamide Cavity

Cavity	ØD1	ØD2	N*	N**	K
4	8.25	7.05	9.8	12.3	1.5
6	10.2	9.15	12.2	12.3	2
8	12.15	10.85	14.2	14.3	2
10	14.8	13.2	16.8	19	2
12	17.5	15.5	20	20.2	2.5

Cavity	ØD1	ØD2	N	K
1/8	7.05	6.02	8.6	1.5
5/32*	8.25	7.05	9.75	1.5
1/4	10.55	9.35	12.6	2
5/16*	12.15	10.85	14.2	2
3/8	14.8	13.1	16.8	2

### Aluminium Cavity

Cavity	ØD1	ØD2	N*	N**	K*	K**
4	8.25	7.5	11.5	12.3	3	1.5
6	10.3	9.15	13.5	12.3	3	2
8	12.2	10.85	15.2	15.2	3	2
10	15.05	13.2	17.1	19	2	2
12	17.5	15.5	20	20.2	2.5	2.5

Cavity	ØD1	ØD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	11.25	3
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	15.2	3
3/8	15.05	13.1	17.1	2

### Brass Cavity

Cavity	ØD1	ØD2	N*	N**	K*	K**
4	8.25	7.05	10.25	12.3	2	1.5
6	10.25	9.1	12.25	12.3	2	2
8	12.2	10.85	14.25	14.3	2	2
10	15.05	13.2	17.1	19	2	2
12	17.65	15.5	20	20.2	2.5	2.5

Cavity	ØD1	ØD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	10.25	2
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	14.25	2
3/8	10.05	13.1	17.1	2

Please consult us for detailed drawings of cavity dimensions and tolerances.


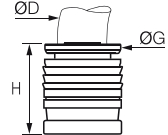


All our dimensions are in millimeters.

\*Carstick® / \*\*Quick Fitting


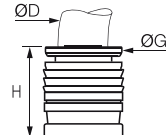


\*5/32" = 4 mm and 5/16" = 8 mm

# Polymer Cartridges for Fluids and Gases

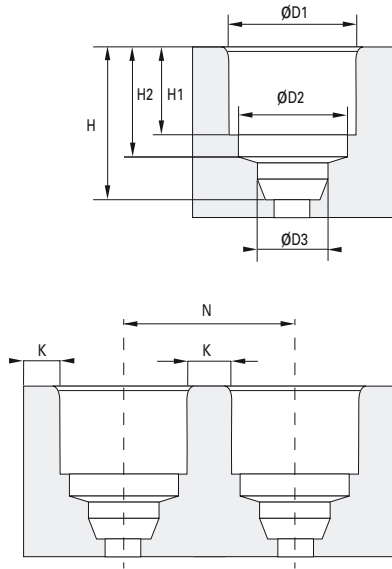
## 6300 LIQUIfit® Cartridge

	Laiton, EPDM 	<b>ØD</b>		<b>G</b>	<b>G1</b>	<b>H</b>	<b>L</b>	<b>kg</b>
		4	<b>6300 04 00</b>	8	11	10	554	0.002
		6	<b>6300 06 00</b>	10	14.5	11.5	629	0.002
		8	<b>6300 08 00</b>	13	15	15	794	0.003
		10	<b>6300 10 00</b>	15.5	19.5	17	930	0.005
		12	<b>6300 12 00</b>	18.5	21	19.5	1038	0.010
		50 cartridges per Carstick®						
								

## 6300 LIQUIfit® Cartridge

	Laiton, EPDM 	<b>ØD</b>		<b>G</b>	<b>G1</b>	<b>H</b>	<b>L</b>	<b>kg</b>
		1/4	<b>6300 56 00</b>	10.5	14.5	12.5	600	0.002
		3/8	<b>6300 60 00</b>	15.5	19	17	930	0.005
		1/2	<b>6300 62 00</b>	22	25	23	1038	0.011
		50 cartridges per Carstick®						
		5/32" (4 mm) and 5/16" (8 mm) also available						
								

## LIQUIfit® Cavity Dimensions



### LIQUIfit® Carstick®

Metric

Cavity	ØD3	H	H1	H2
4	4.1	10	6	8.15
6	6.1	12	7.5	9.65
8	8.15	15.5	9.9	12.45
10	10.25	19	11.7	14.35
12	12.17	22	13.9	16.75

### LIQUIfit® Carstick®

Inch

Cavity	ØD3	H	H1	H2
1/8	3.25	7.45	5.3	9.5
5/32*	4.1	8.15	6	10
1/4	6.45	10.15	8	12.5
5/16*	8.15	12.45	9.9	15.5
3/8	9.65	14.35	11.7	19

### Polyamide Cavity

Cavity	ØD1	ØD2	K	N
4	8.25	7.05	9.8	1.5
6	10.2	9.15	12.2	2
8	12.15	10.85	14.2	2
10	14.8	13.2	16.8	2
12	17.5	15.5	20	2.5

Cavity	ØD1	ØD2	K	N
1/8	7.05	6.02	8.6	1.5
5/32*	8.25	7.05	9.75	1.5
1/4	10.55	9.35	12.6	2
5/16*	12.15	10.85	14.2	2
3/8	14.8	13.1	16.8	2

### Aluminium Cavity

Cavity	ØD1	ØD2	K	N
4	8.25	7.5	11.5	3
6	10.3	9.15	13.5	3
8	12.2	10.85	15.2	3
10	15.05	13.2	17.1	2
12	17.5	15.5	20	2.5

Cavity	ØD1	ØD2	K	N
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	11.25	3
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	15.2	3
3/8	15.05	13.1	17.1	2

### Brass Cavity

Cavity	ØD1	ØD2	K	N
4	8.25	7.05	10.25	2
6	10.25	9.1	12.25	2
8	12.2	10.85	14.25	2
10	15.05	13.2	17.1	2
12	17.65	15.5	20	2.5

Cavity	ØD1	ØD2	K	N
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	10.25	2
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	14.25	2
3/8	10.05	13.1	17.1	2

Please consult us for detailed drawings of cavity dimensions and tolerances.

All our dimensions are in millimeters.

\*5/32" = 4 mm and 5/16" = 8 mm



# Metal Cartridges

For full **compatibility** with **many fluids** and severe conditions (**+150°C**), Parker Legris has developed two types of patented cartridges. Using our metal cartridges allows for **optimisation of installation configurations** and for the TL, the possibility of removal.

## Product Advantages

- LF Cartridges**
  - LF 3600** All the advantages of the LF 3600, LF 3800 and LF 3900 fittings applied to cartridge technology
  - LF 3800** All-metal product to provide the greatest mechanical strength and chemical resistance
  - LF 3900** Resistant at high temperatures (+150°C)  
Can be installed in either polymer or metal housings
- TL Cartridge** Possibility to have several tubing diameters in the same cavity  
Visible retention and sealing system, can be disassembled using the dedicated tool



- Applications**
- Robotics
  - Automotive Process
  - Pneumatics
  - Semi-Conductors
  - Refrigeration
  - Packaging
  - Vacuum

## Technical Characteristics

LF Cartridges		TL Cartridge	
<b>Compatible Fluids</b>	Fluids: see corresponding chapters	<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	Vacuum to 30 bar	<b>Working Pressure</b>	0.01 to 16 bar
<b>Working Temperature</b>	-20°C to +150°C	<b>Working Temperature</b>	-25°C to +80°C
<b>Component Materials</b>	See corresponding chapters	<b>Component Materials</b>	Body: brass Release button: technical polymer Gripping ring: stainless steel Seals: NBR

### Regulations


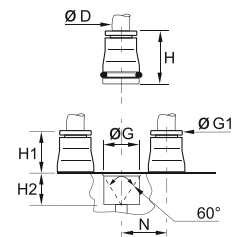

**LF 3600, LF 3800, LF 3900**  
**DI:** 97/23/CE (PED)  
**RG:** 21 CFR (FDA)  
**RG:** 1935/2004/CE  
 (minimum flow 0.02 l/hr)  
**DI:** 2011/65/CE (RoHS)  
**USDA NSF H1:** grease  
**ASTM B733-04:** self-catalytic nickel coating  
**DI:** 94/9/CE (ATEX)

**TL**  
**DI:** 97/23/CE (PED)  
**DI:** 2011/65/CE (RoHS)


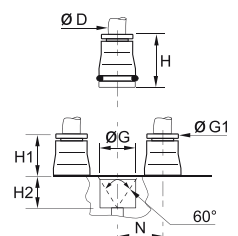


Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used. Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

# Metal Cartridges for Fluids and Gases

## 3600 One-Piece Cartridge


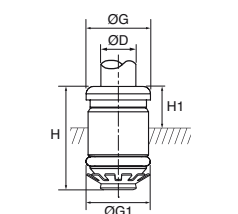

	FDA chemical nickel-plated brass, FKM 	<b>ØD</b>		<b>G</b>	<b>G1</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>N</b>	<b>kg</b>
		4	<a href="#">3600 04 00</a>	9.8	8	17	8.5	8.5	11	0.006
		6	<a href="#">3600 06 00</a>	12.1	10	19	10.5	8.5	13.5	0.009
		8	<a href="#">3600 08 00</a>	14.8	13	21	12.5	8.5	16	0.012
		10	<a href="#">3600 10 00</a>	17.5	15	24.5	14	10.5	20	0.019
		12	<a href="#">3600 12 00</a>	20	17	25	14.5	10.5	22.5	0.023
		14	<a href="#">3600 14 00</a>	22	20	28.5	16.5	12	25	0.031

## 3800/3900 One-Piece Cartridge

	Stainless steel 316L, FKM 	<b>ØD</b>			<b>G</b>	<b>G1</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>N</b>	<b>kg</b>
		4	<a href="#">3800 04 00</a>	<a href="#">3900 04 00</a>	9.8	8	17	8.5	8.5	11	0.006
		6	<a href="#">3800 06 00</a>	<a href="#">3900 06 00</a>	12.1	10	19	10.5	8.5	13.5	0.008
		8	<a href="#">3800 08 00</a>	<a href="#">3900 08 00</a>	14.8	13	21	12.5	8.5	16	0.012
		10	<a href="#">3800 10 00</a>	<a href="#">3900 10 00</a>	17.5	15	24.5	14	10.5	20	0.019
		12	<a href="#">3800 12 00</a>	<a href="#">3900 12 00</a>	20	17	25	14.5	10.5	22.5	0.023


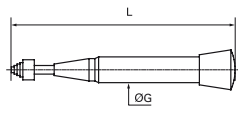

3800: collet in 303 stainless steel  
3900: collet in 316L stainless steel

## TL Cartridge

	Brass, NBR 	<b>ØD</b>	<b>Cavity</b>		<b>G</b>	<b>G1</b>	<b>H</b>	<b>H1</b>	<b>H1*</b>	<b>kg</b>
		4	4	<a href="#">FTL4</a>	8	8	14.5	4.5	7.5	0.003
		4	6	<a href="#">FTL4-6</a>	8	10	17	4.5	9.5	0.003
		6	6	<a href="#">FTL6</a>	10.5	10	17	4.5	9.5	0.004
		4	8	<a href="#">FTL8-4</a>	8	12	17.5	5	10.5	0.008
		6	8	<a href="#">FTL8-6</a>	10.5	12	18	5.5	11	0.008
		8	8	<a href="#">FTL8</a>	13.5	12	19	6.5	12	0.005

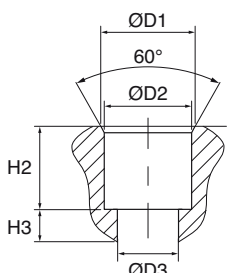
\*Can be mounted in a short hole with extremely close porting

## TLT Disconnection Tool

			<b>G</b>	<b>L</b>	<b>kg</b>
		<a href="#">TLT</a>	28	156	0.235

Only for use with TL cartridges

## Cavity Dimensions



### TL Cartridge

Cavity	ØD1	ØD2	ØD3	H2	H3
4	9	8	5.5	9	1.5
6	11	10	8	11	1.5
8	13	12	8.5	11.5	1.5
4C*	9	8	5.5	6	1.5
6C*	11	10	8	6	1.5
8C*	13	12	8.5	6	1.5

\*Can be mounted in a short hole with extremely close porting

# Customised Solutions

Parker Legris has made **the development of customised products** one of its specialities. These dedicated products provide our customers with a **technical and economic solution** which fully meets their needs.

## Customised Solution Development Process

- 1. Define the Function Parameters**

Specify the pressure, temperature, environment, fluids, materials and product function you need.

Estimate the quantity requirements.

Our product engineers are available to help you refine your requirements.
- 2. Send Your Request to our Technical Department**

Complete the online request form at [www.parkerlegris.com](http://www.parkerlegris.com), "Special Products".

Specify your quantities, technical and commercial requirements.
- 3. Request Analysis**

We assess the feasibility of the product based on the information you have sent us.

We carry out a technical study and produce drawings (prototypes and testing as necessary).
- 4. Parker Legris Proposes the Customised Solution**

We submit the optimum technical and commercial proposal.

If our proposal is accepted, we launch the production process.
- 5. Serial Production**

We will continually update you as to the status of your order and delivery date.

# Customised Products

## Cartridges



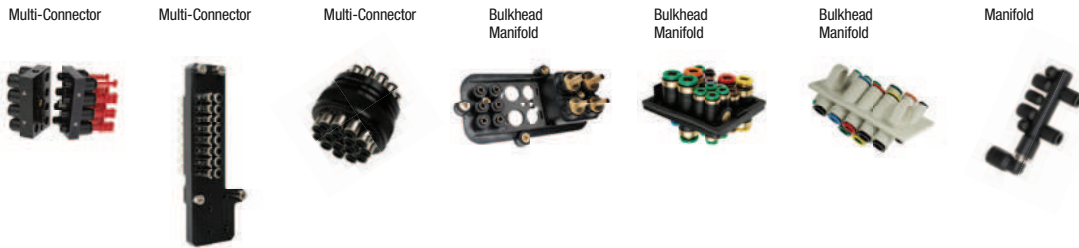
## Fittings



## Function Fittings



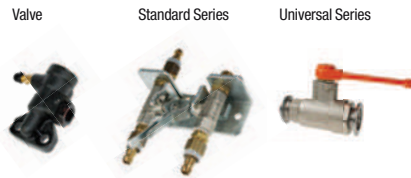
## Multi-Connectors and Manifolds



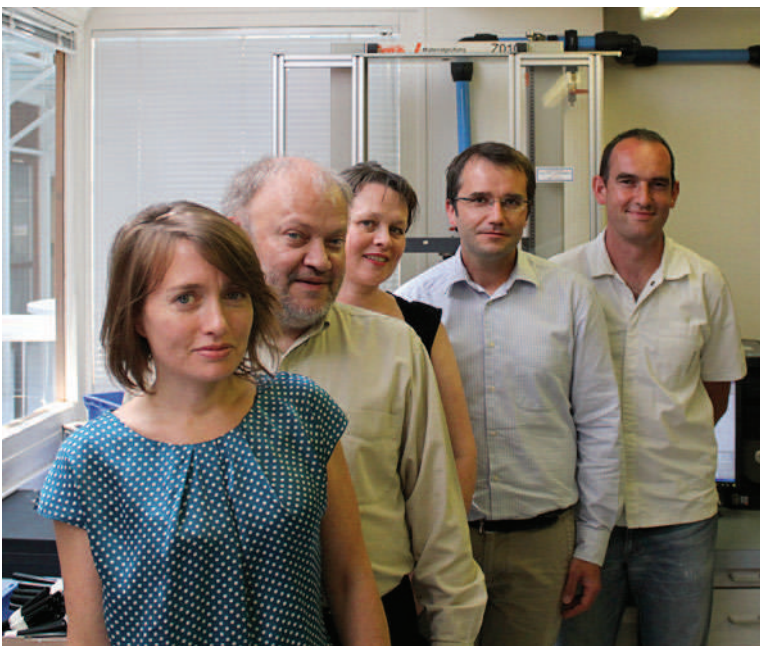
## Tubing and Blowguns



## Valves



## Skilled and Dedicated People Provide You with the Best Solution



**More than 40 years' experience** in the design of push-in fittings also means more than 40 years spent in producing customised solutions for our customers.

We have a team of motivated and experienced engineers skilled in using the latest design tools: calculation and digital simulation tools, CAD, rheology (plastic injection modelling), quick prototyping and performance measuring in the laboratory.

# Customised Fittings

To meet your needs, we can re-engineer the design of our fittings.

To complement our wide range of fittings, we can offer customised products.

Longer threads, different types of seal, special grease, specific cleaning processes, colours, packaging, etc. are all parameters which we can easily modify.



## Low Temperature Carstick®

Resistant at -40°C



## Metal Cartridges

Cartridges adapted to the client's dimensional and environmental requirements

Combination of the patented Carstick® system (seal protection) and LF 3600 performance levels



## Fitting for Breathable Air

Specific gripping feature, cleanliness, oxygen-compatible grease

Reinforced leak testing

Coloured release button for fluid identification

Special packaging



## Fitting for the Transmission of Deionised Cooling Water in Frequency Inverters

Water-resistant materials

Stainless steel threads

Special seals



## Fitting for the Transmission of Water in Ceiling-Mounted Air Conditioning Systems

Brass body

Double seal

Crimped to hose



## Orifice Fitting

Allows accurate flow regulation

Minimum orifice diameter: 0.5 mm





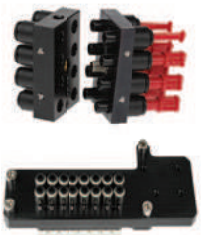
#### Non-Return Valve

Developed for systems carrying breathable air  
 Low cracking threshold  
 Oxygen-compatible grease, cleanliness



#### Compact Flow Regulator with Recessed Screw and FKM Seals

Improved external chemical resistance  
 Custom logo



#### Multi-Connector

Allows disconnection of up to 16 tubes in a single operation  
 Compact design suitable for the operating environment



#### Polymer Body with Integrated Fittings

For connection of pneumatic lines between the truck cab and chassis



#### Polymer Manifold

Reinforced integrated connections  
 Dedicated to the distribution of compressed air for truck auxiliary systems e.g. cab seat, air horn, gauges...

# Customised Tubing and Blowguns

**We can adapt the formulation of polymers and customise tubing or blowguns to suit your requirements.**

We can offer custom modifications such as: special additives and materials, non-standard diameters, customised marking, specific packaging, custom colours, custom tube cutting, pre-formed tubing, packaged solutions (tubes + fittings or couplers, blowgun kits).



Tube marked with customer's name  
Tubes cut to specific lengths



Marked with the customer's logo and part number  
In lengths of 5 m, 10 m, 25 m, 50 m and 100 m, depending on the tube material  
For flexible or semi-rigid tubing  
Optimised tube packaging  
Easy identification of the tube type  
Integrated reel for easy handling



Marked with the customer's logo and part number  
Up to 1000 m lengths  
Immediate identification of the tube for easy handling  
Suitable for workshop hose reels



Blowgun customised in customer's colours  
Specific logo  
Customised packaging



Production of a "tube + coupler + blowgun" assembly in dedicated and customised packaging

# Customised Valves

Over and above our range of standard valves, Parker Legris can supply application-specific valves adapted to our customers' environment.

We offer custom modifications such as: longer threads, different types of seal, special grease, lever options, specific cleaning process, materials and surface treatments, assemblies, etc.



## Transport Valve

Mounted on the wheel rims of armoured vehicles  
For managing tyre pressures through an integrated inflation valve



## Auto-Process Valve

Designed to simultaneously control both the inlet and outlet of a cooling line  
Also allows one of the lines to be closed independently



## Valve for Breathable Air

Dedicated to the transmission of oxygen-enriched air in hospital networks  
Special seals, cleanliness, specific grease, very high reliability

# Technical Tubing and Hose

**Flexible Calibrated Tubing**

**Calibrated Multi-Tubing**

**Recoil Tubing and Hose**

**Calibrated Braided Hose**

**Accessories**





# Technical Tubing and Hose

## PA Tubing

(P. 3-10)



**Fluids:** Compressed air, industrial fluids

**Materials:**

- 2 polyamide grades (semi-rigid and rigid)
- 7 colours

**Pressure:** 58 bar

**Temperature:** -40°C to +100°C

**O.D. metric:** 3 mm to 16 mm

**O.D. inch:** on request

## Fireproof High Resistance PA Tubing

(P. 3-14)



**Fluids:** compressed air, coolants, lubricants

**Materials:**

- Polyamide with flame retardant additive
- 5 colours

**Pressure:** 50 bar

**Temperature:** -40°C to +100°C

**O.D. metric:** 4 mm to 12 mm

## Anti-Spark PA or PU Tubing, with or without PVC Sheath

(P. 3-16 & 24)



**Fluids :** compressed air, coolants, industrial fluids

**Materials :**

- Semi-rigid polyamide with PVC sheath
- Polyurethane ether with PVC sheath
- Single layer polyurethane ether
- 4 colours

**Pressure:** 36 bar max.

**Temperature:** -20°C to +80°C

**O.D. metric:** 4 mm to 12 mm

## PU Tubing

(P. 3-18)



**Fluids:** compressed air and food industry fluids ("crystal")

**Materials:**

- Polyurethane ester or ether
- Polyurethane food-grade "crystal"
- 7 colours

**Pressure:** 12 bar

**Temperature:** -20°C to +70°C

**O.D. metric:** 3 mm to 16 mm

**O.D. inch:** on request

## Antistatic PU Tubing

(P. 3-22)



**Fluids:** compressed air

**Materials:**

- Polyurethane with conductive particles
- Black ( $10^2 \Omega \cdot m$ )

**Pressure:** 10 bar

**Temperature:** -20°C to +70°C

**O.D. metric:** 3 mm to 12 mm

## PE Tubing

(P. 3-26)



**Fluids:** many fluids

**Materials:**

- Low density polyethylene
- 50% reticulated polyethylene, food-grade
- 7 colours

**Pressure:** 20 bar

**Temperature:** -40°C to +95°C

**O.D. metric:** 4 mm to 14 mm

**O.D. inch:** 1/8" to 1/2"

## FEP Tubing

(P. 3-28)



**Fluids:** many fluids

**Materials:**

- Fluoropolymer: fluorinated ethylene propylene, food-grade
- Transparent

**Pressure:** 28 bar

**Temperature:** -40°C to +150°C

**O.D. metric:** 4 mm to 12 mm

## PFA Tubing

(P. 3-30)



**Fluids:** many fluids

**Materials:**

- 3 grades of perfluoroalkoxy
- High purity food-grade, clear
- Standard food-grade, 3 "crystal" colours
- Antistatic ( $0.2 \Omega \cdot m$ ), black

**Pressure:** 36 bar

**Temperature:** -196°C to +260°C

**O.D. metric:** 4 mm to 12 mm

## PA Multi-Tubing

(P. 3-32)



**Fluids:** compressed air, industrial fluids

**Materials:**

- Semi-rigid polyamide with PVC sheath
- 6 colours

**Pressure:** 24 bar

**Temperature:** -40°C to +80°C

**O.D. metric:** 4 mm to 8 mm

# Technical Tubing and Hose

## Twin PU Tubing

(P. 3-32)



**Fluids:** compressed air

**Materials:**

- Polyurethane ester
- 1 to 2 colours

**Pressure:** 14 bar

**Temperature:** -20°C to +70°C

**O.D. metric:** 4 mm to 8 mm

## Recoil PA Tubing

(P. 3-34)



**Fluids:** compressed air, industrial fluids

**Materials:**

- Semi-rigid polyamide
- 2 colours
- Recoil tubing with fittings

**Pressure:** 20 bar

**Temperature:** -20°C to +80°C

**O.D. metric:** 6 mm and 8 mm

## Recoil PU Tubing

(P. 3-36)



**Fluids:** compressed air

**Materials:**

- Polyurethane ester or ether
- 3 colours
- With or without fittings

**Pressure:** 10 bar

**Temperature:** -20°C to +70°C

**O.D. metric:** 4 mm to 12 mm

**I.D. inch:** 3/8" and 19/32"

## Braided PU Recoil Hose

(P. 3-40)



**Fluids:** compressed air, industrial fluids

**Materials:**

- Translucent blue polyurethane, reinforced with a polyester braid
- Assembled with threaded fittings

**Pressure:** 15 bar

**Temperature:** -40°C to +75°C

**I.D. inch:** 1/4" and 5/16"

## Braided PVC Hose

(P. 3-42)



**Fluids:** compressed air, non-corrosive or alimentary fluids (translucent PVC)

**Materials:**

- Polyvinyl chloride with braided polyester
- Translucent (food-grade) or blue (industrial)

**Pressure:** 15 bar

**Temperature:** -25°C to +70°C

**I.D. metric:** 4 mm to 19 mm

## Self-Fastening NBR Hose

(P. 3-44)



**Fluids:** compressed air, coolants

**Materials:**

- Nitrile butadiene rubber reinforced with a polyamide braid
- 4 colours

**Pressure:** 16 bar

**Temperature:** -20°C to +100°C

**I.D. inch:** 1/4" to 3/4"

# Technical Tubing and Hose Range

## Flexible Calibrated Tubing

### Polyamide Tubing

#### Semi-Rigid PA



**1025P**  
**1100P**  
**2005P**  
**2010P**  
Page 3-11

#### Rigid PA



**1025L**  
Page 3-12

#### Fireproof PA



**1025P..R**  
**1100P..R**  
**2005P..R**  
**2010P..R**  
Page 3-15

#### Anti-Spark PA with PVC Sheath



**1025P..V**  
**1100P..V**  
Page 3-17

### Polyurethane Tubing

#### PU Ester



**1025U**  
**1100U**  
**2003U**  
**2005U**  
**2010U**  
Page 3-19

#### PU Ether PU Ether Food-Grade "Crystal"



**1025U..R**  
**1100U..R**  
**2003U..R**  
**2005U..R**  
**2010U..R**  
Page 3-20

#### Antistatic PU



**1025U..A**  
**1100U..A**  
Page 3-23

#### PU Ether, Anti-Spark, Single Layer PU Ether, Anti-Spark with PVC Sheath



**1025U..V**  
**1100U..V**  
Page 3-25  
**1025U..K**  
**1100U..K**  
Page 3-25

### Polyethylene Tubing

#### Advanced PE



**1015Y..F**  
**1030Y..F**  
**1075Y..F**  
**1096Y..F**  
**1098Y..F**  
**1099Y..F**  
Page 3-27

#### Low Density PE



**1025Y**  
**1100Y**  
Page 3-27

### Fluoropolymer Tubing

#### FEP



**1005T**  
**1025T**  
Page 3-29

#### PFA



**1010T..P**  
**1050T..P**  
**1100T..P**  
Page 3-31

#### Antistatic PFA



**1010T..A**  
**1050T..A**  
Page 3-31

## Calibrated Multi-Tubing

### Polyamide Tubing with PVC Sheath

#### Semi-Rigid PA



**1010P..M**  
**1050P..M**  
Page 3-33

### Twin Polyurethane Tubing

#### Twin PU Ester



**1420U**  
Page 3-33



# Technical Tubing and Hose Range

## Calibrated Recoil Tubing

### Semi-Rigid PA

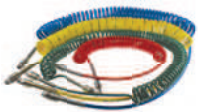
Assembled with Fittings



**1470P**  
**1471P**  
**1472P**  
Page 3-35

### PU Ester and Ether Tubing

Assembled with Fittings,  
Metallic Spring Guard



**1470U**  
**1471U**  
**1472U**  
Page 3-37

Assembled with Fittings,  
Plastic Spring Guard



**1445U..R**  
**1441U..R**  
**1442U..R**  
**1447U..R**  
Page 3-38

Coiled without Fittings



**1460U**  
**1461U**  
**1462U**  
Page 3-37

### Braided PU Hose

Assembled with Fittings,  
Plastic Spring Guard



**1445U..E**  
**1442U..E**  
**1447U..E**  
Page 3-41

## Calibrated Braided Hose

Clear Food-Grade PVC



**1025V**  
**1050V**  
Page 3-43

Blue PVC



**1025V..C**  
**1050V..C**  
Page 3-43

Self-Fastening NBR



**1040H**  
**1080H**  
**1100H**  
Page 3-45

## Accessories

**0694**  
Page 3-46



**0695**  
Page 3-46



**3000 71 11**  
Page 3-46



**3000 71**  
Page 3-46



**6000 71**  
Page 3-46



**0127**  
Page 3-47



**1827**  
Page 3-47



**Clip**  
Page 3-47



**0697**  
Page 3-47



# Packaging for Technical Tubing and Hose

## Tubepack®

- 5 m, 10 m, 25 m and 100 m lengths
- For polyamide, polyurethane, fluoropolymer, polyethylene and anti-spark tubing
- Optimisation of tubing storage
- Immediate identification of the type of tubing
- Integrated winder for easy handling



## Drums

- Up to 1000 m long
- For polyamide, polyurethane, fluoropolymer tubing, etc.
- Immediate identification of the tubing for easy handling
- Adapted to workshop reels



## Reels

- Up to 100 m
- Supplied with protective plastic film
- For braided tubing, special tubing (e.g. multi-tubing)



## Plastic Bags

- Ideal for merchandising
- Promotional tools
- Recoil tubing or tubing cut to the required length



## Tube Marking (except for Fluoropolymer, PFA and FEP)

- Length indicated every metre:
  - time saved when cutting to exact length
  - remaining quantity is immediately identifiable (PA and PU)
- Custom marking upon request (marking, fluid identification, customer part number...)
- Traceability with marking of manufacturing batch



## Tube Cutting to the Required Length

- Upon request, cutting of your tube to the required length, from 5 cm to 3 m
- Precision +/- 3 mm
- Ideal for optimising your installation costs



# Product Codes of Parker Legris Tubing and Hose

## Material

- H** = Self-Fastening NBR
- L** = Rigid Polyamide
- P** = Semi-Rigid Polyamide
- T** = Fluoropolymer
- U** = Polyurethane
- V** = PVC
- Y** = Polyethylene

## Type of Tubing

- P..A** = Antistatic PA
- P..R** = Fireproof PA
- P..V** = Anti-Spark PA with PVC Sheath
- T..A** = Antistatic PFA
- T..P** = PFA
- U..A** = Antistatic PU
- U..K** = Anti-Spark Single Layer PU
- U..R** = PU Ether
- U..V** = Anti-Spark PU with PVC Sheath
- Y..F** = Advanced PE (LIQUIfit®)

**2 010 P 04 R 00 27**

### Packaging Code

- 1** = Tubepack® or LIQUIfit® Drum

### Length

- 015** = 150 m
- 020** = 20 m
- 025** = 25 m
- 030** = 300 m
- 040** = 40 m
- 075** = 75 m
- 080** = 80 m
- 100** = 100 m

### O.D. Code

- 03** = 3 mm
- 04** = 4 mm
- 06** = 6 mm
- 08** = 8 mm
- .../...
- 1/4** = 56 mm
- .../...

### Colour

- 00** =  clear
- 01** =  black
- 02** =  green
- 03** =  red
- 04** =  blue
- 05** =  yellow
- 06** =  grey
- 07** =  orange
- 08** =  crystal clear
- 09** =  purple
- 10** =  white
- 12** =  crystal green
- 13** =  crystal red
- 14** =  crystal blue
- 17** =  crystal orange

### Special I.D.

- 18** = 1.8 mm
- 27** = 2.7 mm
- 33** = 3.3 mm
- 75** = 7.5 mm
- 95** = 9.5 mm

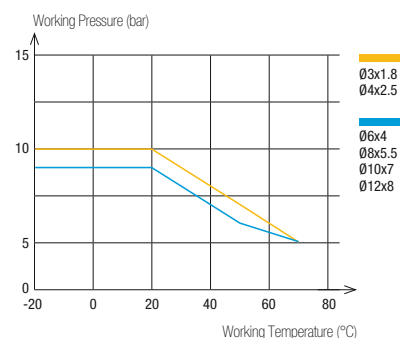
- 2** = Long Length on Drum

- 003** = 300 m
- 005** = 500 m
- 010** = 1000 m

- 10** = 10 mm
- 04** = 4 mm
- 06** = 6 mm
- 08** = 8 mm
- 10** = 10 mm
- 04** = 4 mm
- 06** = 6 mm

## How to Read the Graphs

- In the graphs in this chapter, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
- Technical characteristics of Parker Legris tubing depend on the type of connection used.
- The vacuum capability of all tubing is 755 mm Hg (99% vacuum).



# PA Tubing

**Tried-and-tested** for industrial or vehicle applications, PA tubing guarantees **excellent durability** due to its stable long-term mechanical properties.

Parker Legris' special grade of semi-rigid polyamide is manufactured according to our **Eco-Design** approach for higher performance.

## Product Advantages

### Tried-&-Tested Material

- Good chemical and humidity resistance
- Excellent material stability (mechanical and chemical)
- Continuous calibration during production for excellent reliability
- Two material grades: rigid and semi-rigid
- Bio-based semi-rigid material

### Versatility & Performance

- Wide range of working pressure and temperature
- Good vibration absorption
- Abrasion-resistant
- Remaining length marking
- Large choice of colours to facilitate circuit identification
- Silicone-free



**Applications**

- Packaging
- Tooling
- Compressed Air
- Motion Technologies
- Robotics
- Industrial Machinery

## Technical Characteristics

Tubing	Semi-Rigid PA	Rigid PA
Compatible Fluids	Compressed air, other fluids	Compressed air, lubricants, other fluids
Working Pressure	Vacuum to 50 bar	Vacuum to 60 bar
Working Temperature	-40°C to +100°C	-40°C to +80°C
Component Materials	Bio-based polyamide (68 shore D)	Polyamide (65 shore D)

### Regulations

#### Industrial

DI: 2002/95/EC (RoHS), 2011/65/EC  
DI: 97/23/EC (PED)  
RG: 1907/2006 (REACH)

#### Transportation

Chemical performance and resistance tested according to DIN 74324 -1 / DIN 73378 / ISO 7628

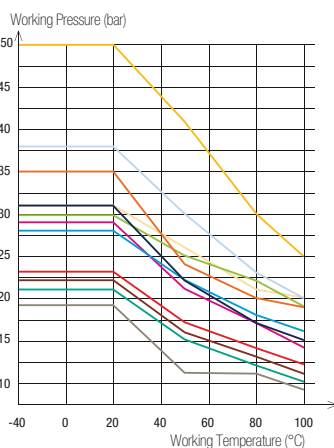
### Packaging

TubePack®: 25 m, 100 m  
Drum: 500 m, 1 000 m

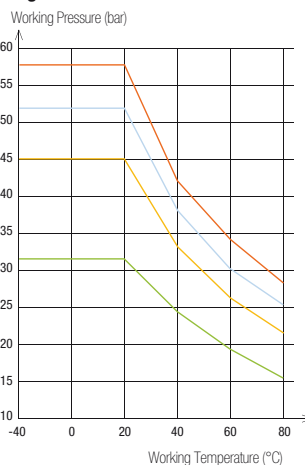
Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

### Performance of PA Tubing

#### Semi-Rigid



#### Rigid



Tube O.D.	Tube O.D. Tolerance
3 to 5 mm	+0.05 / -0.08
6 to 16 mm	+0.05 / -0.10

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

## 1025P Semi-Rigid Polyamide (PA) Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)	R	Clear							kg
3	1.8	6	1025P03 00 18					1025P03 04 18		0.020
4	2	10	1025P04 00	1025P04 01	1025P04 02	1025P04 03	1025P04 04	1025P04 05	1025P04 06	0.318
4	2.7	10	1025P04 00 27	1025P04 01 27	1025P04 02 27	1025P04 03 27	1025P04 04 27	1025P04 05 27	1025P04 06 27	0.254
5	3.3	15	1025P05 00 33	1025P05 01 33				1025P05 04 33		0.420
6	4	15	1025P06 00	1025P06 01	1025P06 02	1025P06 03	1025P06 04	1025P06 05	1025P06 06	0.535
8	6	25	1025P08 00	1025P08 01	1025P08 02	1025P08 03	1025P08 04	1025P08 05	1025P08 06	0.748
10	7.5	42	1025P10 00 75	1025P10 01 75				1025P10 04 75		1.135
10	8	50	1025P10 00	1025P10 01	1025P10 02	1025P10 03	1025P10 04	1025P10 05	1025P10 06	0.989
12	9	47	1025P12 00 09	1025P12 01 09				1025P12 04 09		1.769
12	10	90	1025P12 00	1025P12 01				1025P12 04		1.345
14	11	80	1025P14 00 11	1025P14 01 11				1025P14 04 11		2.226
14	12	116	1025P14 00	1025P14 01				1025P14 04		1.734
16	13	90	1025P16 00 13	1025P16 01 13	1025P16 02 13	1025P16 03 13	1025P16 04 13			2.500

Inch version tubing available upon request

## 1100P Semi-Rigid Polyamide (PA) Tubing

Tubepack® 100 m

O.D. (mm)	I.D. (mm)	R	Clear							kg
4	2	10	1100P04 00	1100P04 01	1100P04 02	1100P04 03	1100P04 04	1100P04 05	1100P04 06	1.152
4	2.7	10	1100P04 00 27	1100P04 01 27	1100P04 02 27	1100P04 03 27	1100P04 04 27	1100P04 05 27	1100P04 06 27	0.893
5	3.3	15	1100P05 00 33	1100P05 01 33				1100P05 04 33		1.274
6	4	15	1100P06 00	1100P06 01	1100P06 02	1100P06 03	1100P06 04	1100P06 05	1100P06 06	1.799
8	6	25	1100P08 00	1100P08 01	1100P08 02	1100P08 03	1100P08 04	1100P08 05	1100P08 06	2.898
10	7.5	42	1100P10 00 75	1100P10 01 75				1100P10 04 75		4.400
10	8	50	1100P10 00	1100P10 01	1100P10 02	1100P10 03	1100P10 04	1100P10 05		3.667
12	9	47	1100P12 00 09	1100P12 01 09				1100P12 04 09		5.600
12	10	90	1100P12 00	1100P12 01				1100P12 04	1100P12 06	5.052
14	11	80	1100P14 00 11	1100P14 01 11				1100P14 04 11		5.200
14	12	116	1100P14 00	1100P14 01				1100P14 04		4.800
16	13	90	1100P16 00 13	1100P16 01 13	1100P16 02 13	1100P16 03 13	1100P16 04 13			7.800

Inch version tubing available upon request

## 2005P Semi-Rigid Polyamide (PA) Tubing

Drum 500 m

O.D. (mm)	I.D. (mm)	R	Clear							kg
8	6	25	2005P08 00	2005P08 01	2005P08 02	2005P08 03	2005P08 04	2005P08 05	2005P08 06	12.100
10	8	50	2005P10 00	2005P10 01	2005P10 02	2005P10 03	2005P10 04	2005P10 05		15.600

## 2010P Semi-Rigid Polyamide (PA) Tubing

Drum 1000 m

O.D. (mm)	I.D. (mm)	R	Clear							kg
4	2.7	10	2010P04 00 27	2010P04 01 27	2010P04 02 27	2010P04 03 27	2010P04 04 27	2010P04 05 27	2010P04 06 27	7.630
6	4	15	2010P06 00	2010P06 01	2010P06 02	2010P06 03	2010P06 04	2010P06 05	2010P06 06	16.600

### Tube Cutting to the Required Length



- Cutting of your tubing upon request, from 5 cm to 3 m
- Precision +/- 3 mm
- Ideal for optimising your installation costs



# PA Tubing

## 1025L Rigid Polyamide (PA) Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)	 R		kg
4	2.5	35	<a href="#">1025L04 01 25</a>	0.190
6	4	45	<a href="#">1025L06 01</a>	0.400
8	5	70	<a href="#">1025L08 01 05</a>	0.760
8	6	65	<a href="#">1025L08 01</a>	0.760
10	6	85	<a href="#">1025L10 01 06</a>	1.330

PA tubing can be connected to various fittings shown throughout this catalogue.

### Tubing

#### Semi-Rigid PA



#### Rigid PA



### Push-In Fittings

#### LF 3000® P. 1-4



#### LF 3600 P. 1-65



#### LF 3800/LF 3900 P. 1-77



#### LF 6100 P. 1-89



### Compression Fittings

#### Brass P. 5-5



#### Stainless Steel P. 5-31



#### Ferrules P. 5-5





# Fireproof High Resistance PA Tubing

This **single layer fireproof** tubing not only combines excellent resistance to pressure, temperature and flame, but also guarantees **non-toxic smoke** resulting from burn-off. This tubing eliminates the need for a stripping tool, thus preventing the risk of tube damage prior to connection.

## Product Advantages

### Safety for On-Board Railway Equipment

- Designed for on-board equipment
- Excellent flame-resistance: self-extinguishing
- Very little smoke generation
- Non-toxic combustion gases
- UV-resistant
- Extremely resistant to high pressure and temperature

### Innovative Single-Layer Solution

- Developed for demanding industrial applications
- Excellent spark resistance
- Economical alternative to PA tubing with PVC sheath
- Combines technical advantages of rigid and semi-rigid PA tubing
- 5 colours available
- Flow direction marking
- Silicone-free



**Applications**

- Railway
- Air Horns
- Industrial Machinery
- Pneumatic Doors
- Step-Units
- Centralised Lubrication
- Welding

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air, lubricants Other fluids: please consult us
<b>Working Pressure</b>	Vacuum to 50 bar
<b>Working Temperature</b>	-40°C to +100°C
<b>Component Materials</b>	Polyamide (63 shore D)

### Regulations

#### Railway

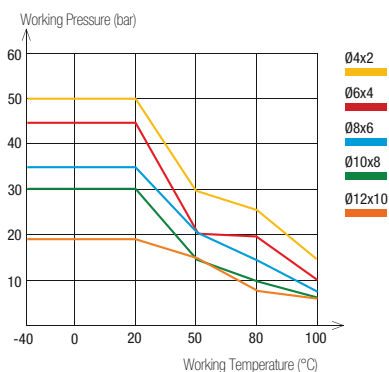
Pr EN 45545-2: HL3, R22, R24, R25  
NF F16101: I3 F2,  
DIN 5510-2: S4, SR2, ST2  
ISO 4892

#### Industrial

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

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).

### Performance of Fireproof High Resistance PA Tubing



Tube O.D.	Tube O.D. Tolerance
4 mm	+0.05 / -0.08
6 to 12 mm	+0.05 / -0.10

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

### Packaging







Tube pack®: 25 m, 100 m  
Drum: 500 m, 1000 m

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









## 1025P..R Fireproof High Resistant Polyamide (PA)

TubePack® 25 m

O.D. (mm)	I.D. (mm)		 Clear					kg
4	2	17	1025P04R00	1025P04R01	1025P04R02	1025P04R03	1025P04R04	0.367
6	4	29	1025P06R00	1025P06R01	1025P06R02	1025P06R03	1025P06R04	0.554
8	6	40	1025P08R00	1025P08R01	1025P08R02	1025P08R03	1025P08R04	0.554
10	8	77	1025P10R00	1025P10R01	1025P10R02	1025P10R03	1025P10R04	0.721
12	9	92	1025P12R00	1025P12R01	1025P12R02		1025P12R04	1.345







## 1100P..R Fireproof High Resistant Polyamide (PA)

TubePack® 100 m

O.D. (mm)	I.D. (mm)		 Clear					kg
4	2	17	1100P04R00	1100P04R01	1100P04R02	1100P04R03	1100P04R04	1.308
6	4	29	1100P06R00	1100P06R01	1100P06R02	1100P06R03	1100P06R04	1.308
8	6	40	1100P08R00	1100P08R01	1100P08R02	1100P08R03	1100P08R04	2.122
10	8	77	1100P10R00	1100P10R01	1100P10R02	1100P10R03	1100P10R04	2.725
12	9	92	1100P12R00	1100P12R01			1100P12R04	5.052







## 2005P..R Fireproof High Resistant Polyamide (PA)

Drum 500 m

O.D. (mm)	I.D. (mm)		 Clear					kg
8	6	40	2005P08R00	2005P08R01	2005P08R02	2005P08R03	2005P08R04	17.500
10	8	77	2005P10R00	2005P10R01	2005P10R02	2005P10R03	2005P10R04	22.800

## 2010P..R Fireproof High Resistant Polyamide (PA)

Drum 1000 m

O.D. (mm)	I.D. (mm)		 Clear					kg
4	2	17	2010P04R00	2010P04R01	2010P04R02	2010P04R03	2010P04R04	14.300
6	4	29	2010P06R00	2010P06R01	2010P06R02	2010P06R03	2010P06R04	23.000

### Related Products

Fireproof high resistance tubing can be connected to various fittings presented in this catalogue in Chapter 1.

#### Push-In Fittings

**LF 3000®** P. 1-4    **LF 3600** P. 1-65    **LF 3800/LF 3900** P. 1-77    **LF 6100** P. 1-89



#### Compression Fittings

**Brass** P. 5-5    **Brass Tube Support** P. 5-5



# Anti-Spark PA Tubing with PVC Sheath

A range of **flame and spark-resistant** PA tubing with superior resistance to impact and abrasion, improving equipment **durability**, particularly in areas subject to weld spatter.

## Product Advantages

**Spark Resistance** | Flame-retardant PVC jacket protects inner tubing  
Non-adhesive jacket facilitates sheath removal  
Excellent pressure resistance at high temperature

**Robustness & Durability** | Highly kink and crush-resistant  
Excellent compatibility with coolants  
Flow direction marking  
Silicone-free



Industrial Machinery  
Welding Robots  
Cooling  
Aggressive Environments

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Hot and cold water, refrigerated fluids, compressed air
<b>Working Pressure</b>	0 to 36 bar
<b>Working Temperature</b>	-20°C to +80°C
<b>Component Materials</b>	Polyamide & PVC Sheath

### Regulations

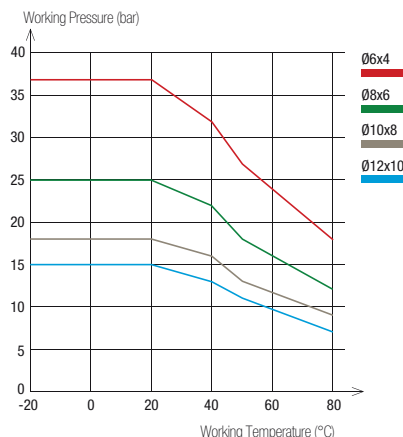
**Industrial**  
DI: 2002/95/EC (RoHS), 2011/65/EC  
DI: 97/23/EC (PED)  
RG: 1907/2006 (REACH)  
UL94 V-0 (Fire resistance)

### Packaging

Tube-pack\*: 25 m, 100 m

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

### Performance of Anti-Spark PA Tubing with PVC Sheath



O.D.	Tube O.D. Tolerance	PVC Sheath Thickness
<b>PVC Sheath 8 to 14 mm</b>	+0.10 / -0.10	1 mm
<b>Inner Tubing 6 to 12 mm</b>	+0.05 / -0.10	

Connected to Parker Legris push-in fittings, the calibration of PA tubing ensures perfect sealing based on NF E49-100 (semi-rigid PA inner tubing).






Tube O.D.	Sheath Removal Length for LF 3600 Push-In Fittings (mm)
4 mm	15± 1
6 mm	18± 1
8 mm	19± 1
10 mm	24± 1
12 mm	25± 1

For other fitting ranges, please consult us.

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






## 1025P..V Anti-Spark Polyamide (PA) Tubing

Tubepack® 25 m



O.D. (mm)	I.D. (mm)						kg
6	4	25	1025P06V01	1025P06V02	1025P06V03	1025P06V04	1.238
8	6	30	1025P08V01	1025P08V02	1025P08V03	1025P08V04	1.693
10	8	55	1025P10V01	1025P10V02	1025P10V03	1025P10V04	2.029
12	10	70	1025P12V01	1025P12V02	1025P12V03	1025P12V04	2.970

## 1100P..V Anti-Spark Polyamide (PA) Tubing

Tubepack® 100 m

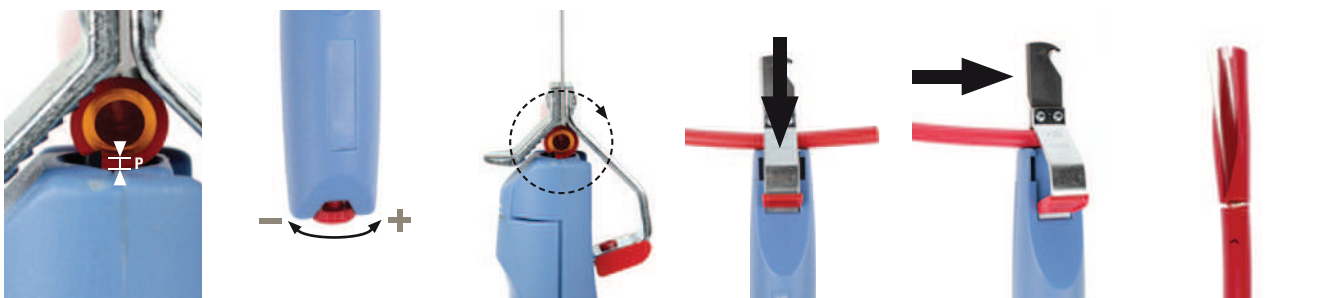
O.D. (mm)	I.D. (mm)						kg
6	4	25	1100P06V01	1100P06V02	1100P06V03	1100P06V04	2.338
8	6	30	1100P08V01	1100P08V02	1100P08V03	1100P08V04	3.767
10	8	55	1100P10V01	1100P10V02	1100P10V03	1100P10V04	4.767
12	10	70	1100P12V01	1100P12V02	1100P12V03	1100P12V04	6.567

## 6000 71 00 Stripping Tool for Anti-Spark Tubing

	Technical polymer, stainless steel		kg
		6000 71 00	0.098

### Working Principle

Stripping Tool 6000 71 00



1. Place tube in stripping tool to adjust the blade height to the tube thickness.

2. Blade height is adjusted using the wheel at the bottom of the handle.

3. Once adjustments have been made, perform a 360° rotation around the tube with the tool.

4. Push down firmly on the metal part of the tool in order to hold tube properly.

5. Move the tool to the end of the tube to create an axial opening of the sheath.

6. The tube is correctly stripped.

# PU Tubing

Polyurethane's **3 specific materials** - ether, ester and food-grade "crystal" - offer excellent flexibility and outstanding use in a wide range of applications, allowing for up to **50% space reduction** when compared to semi-rigid PA tubing.

## Product Advantages

### Excellent Mechanical Properties

- Consistent tensile strength for optimum longevity
- Optimal bend radius
- Good vibration absorption
- Unsurpassed abrasion resistance for a single layer tubing
- UV-resistant
- Superior vacuum capability due to surface hardness
- Remaining length marking
- Silicone-free

### 3 Material Grades

- PU ester: perfect for pneumatic applications
- PU ether: no water absorption ; superior chemical resistance to PU ester
- PU ether food-grade "crystal":
  - identification of fluids and circuits
  - chemical resistance superior to PU ether
  - improved longevity



**Applications**

- Food Process
- Robotics
- Cabling
- Pneumatics
- Automation
- In-Plant Automotive
- Rapid Cycles

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air, industrial fluids (depending on the material type)
<b>Working Pressure</b>	Vacuum to 12 bar
<b>Working Temperature</b>	-20°C to +70°C
<b>Component Materials</b>	Polyurethane ester Polyurethane ether Polyurethane ether food-grade "crystal"

### Regulations

#### Industrial

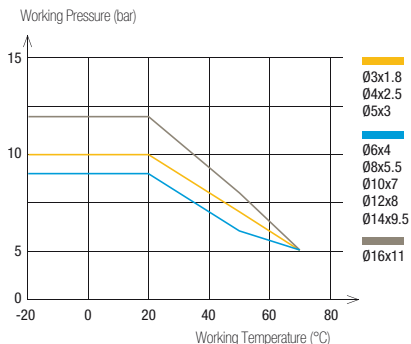
DI: 2002/95/EC (RoHS), 2011/65/EC  
DI: 97/23/EC (PED)  
RG: 1907/2006 (REACH)

#### Food (PU ether food-grade "crystal")

FDA: 21 CFR 177.2600, 178.3297, 176.170, 178.2010  
RG: 1935/2004 EC

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).

### Performance of PU Tubing



Tube O.D.	Tube O.D. Tolerance
3 to 8 mm	+0.10 / -0.10
10 to 16 mm	+0.15 / -0.15

Connected to Parker Legris push-in fittings, the calibration of PU tubing ensures perfect sealing based on NF E49-101.








### Packaging

Tube pack®: 25 m, 100 m  
Drum: 300 m, 500 m, 1 000 m

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

## 1025U Polyurethane (PU) Ester Tubing








Tubepack® 25 m

O.D. (mm)	I.D. (mm)								kg
3	1.8	8	1025U03 01 18						0.020
4	2.5	10	1025U04 01	1025U04 02	1025U04 03	1025U04 04	1025U04 05	1025U04 06	0.310
5	3	13	1025U05 01			1025U05 04			0.522
6	4	15	1025U06 01	1025U06 02	1025U06 03	1025U06 04	1025U06 05	1025U06 06	0.591
8	5.5	20	1025U08 01	1025U08 02	1025U08 03	1025U08 04	1025U08 05	1025U08 06	0.971
10	7	25	1025U10 01	1025U10 02		1025U10 04	1025U10 05	1025U10 06	1.467
12	8	35	1025U12 01	1025U12 02		1025U12 04	1025U12 05	1025U12 06	2.406
14	9.5	45	1025U14 01 95			1025U14 04 95			2.815
16	11	45	1025U16 01 11	1025U16 02 11	1025U16 03 11	1025U16 04 11			2.815

Inch tubing available upon request

## 1100U Polyurethane (PU) Ester Tubing








Tubepack® 100 m

O.D. (mm)	I.D. (mm)								kg
4	2.5	10	1100U04 01	1100U04 02	1100U04 03	1100U04 04	1100U04 05	1100U04 06	1.092
5	3	13	1100U05 01			1100U05 04			1.092
6	4	15	1100U06 01	1100U06 02	1100U06 03	1100U06 04	1100U06 05	1100U06 06	2.064
8	5.5	20	1100U08 01	1100U08 02	1100U08 03	1100U08 04	1100U08 05	1100U08 06	3.610
10	7	25	1100U10 01			1100U10 04			6.105
12	8	35	1100U12 01			1100U12 04			8.610
14	9.5	45	1100U14 01 95			1100U14 04 95			11.215
16	11	45	1100U16 01 11	1100U16 02 11	1100U16 03 11	1100U16 04 11			12.176

Inch tubing available upon request








## 2003U Polyurethane (PU) Ester Tubing

Drum 300 m

O.D. (mm)	I.D. (mm)								kg
10	7	25	2003U10 01	2003U10 02	2003U10 03	2003U10 04	2003U10 05	2003U10 06	16.600








## 2005U Polyurethane (PU) Ester Tubing

Drum 500 m

O.D. (mm)	I.D. (mm)								kg
8	5.5	20	2005U08 01	2005U08 02	2005U08 03	2005U08 04	2005U08 05		17.100

## 2010U Polyurethane (PU) Ester Tubing









Drum 1000 m

O.D. (mm)	I.D. (mm)								kg
4	2.5	12	2010U04 01	2010U04 02	2010U04 03	2010U04 04	2010U04 05	2010U04 06	9.840
6	4	15	2010U06 01	2010U06 02	2010U06 03	2010U06 04	2010U06 05	2010U06 06	20.460

# PU Tubing









## 1025U..R Polyurethane (PU) Ether Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)									kg
4	2.5	12	1025U04R01	1025U04R04	1025U04R08	1025U04R12	1025U04R13	1025U04R14	1025U04R17	0.310
5	3	13			1025U05R08					0.522
6	4	15	1025U06R01	1025U06R04	1025U06R08	1025U06R12	1025U06R13	1025U06R14	1025U06R17	0.591
8	5.5	20	1025U08R01	1025U08R04	1025U08R08	1025U08R12	1025U08R13	1025U08R14	1025U08R17	0.971
10	7	25	1025U10R01	1025U10R04	1025U10R08			1025U10R14		1.467
12	8	35	1025U12R01	1025U12R04	1025U12R08			1025U12R14		2.406
14	9.5	45		1025U14R01 95	1025U14R04 95					2.815
16	11	45			1025U16R08 11					2.815





## 1100U..R Polyurethane (PU) Ether Tubing

Tubepack® 100 m

O.D. (mm)	I.D. (mm)									kg
4	2.5	12	1100U04R01	1100U04R04	1100U04R08	1100U04R12	1100U04R13	1100U04R14	1100U04R17	1.092
6	4	15	1100U06R01	1100U06R04	1100U06R08	1100U06R12	1100U06R13	1100U06R14	1100U06R17	2.064
8	5.5	20	1100U08R01	1100U08R04	1100U08R08	1100U08R12	1100U08R13	1100U08R14	1100U08R17	3.610
10	7	25			1100U10R08			1100U10R14		6.109
12	8	35			1100U12R04			1100U12R08		8.610
14	9.5	45			1100U14R08 95					11.215
16	11	45			1100U16R08 11					12.176





## 2003U..R Polyurethane (PU) Ether Tubing

Drum 300 m

O.D. (mm)	I.D. (mm)					kg
10	7	25	2003U10R01	2003U10R04	2003U10R08	16.600





## 2005U..R Polyurethane (PU) Ether Tubing

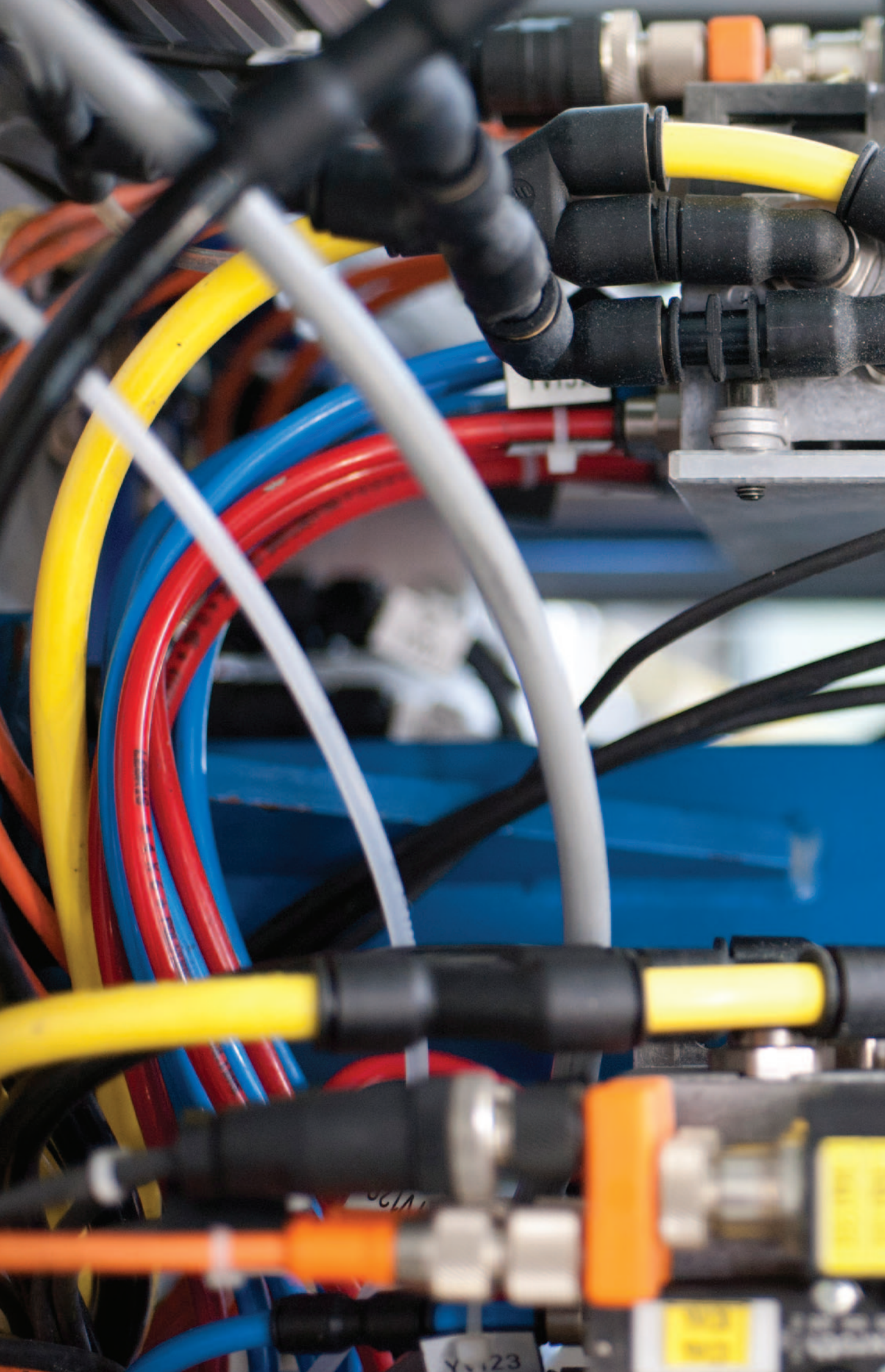
Drum 500 m

O.D. (mm)	I.D. (mm)					kg
8	5.5	20	2005U08R01	2005U08R04	2005U08R08	15.600

## 2010U..R Polyurethane (PU) Ether Tubing

Drum 1000 m

O.D. (mm)	I.D. (mm)					kg
4	2.5	12	2010U04R01	2010U04R04	2010U04R08	8.670
6	4	15	2010U06R01	2010U06R04	2010U06R08	18.600



Flexible Calibrated Tubing

Technical Tubing & Hose

# Antistatic PU Tubing

With a constant **10<sup>2</sup> Ω.m resistivity** across the entire thickness of the tubing wall, this tubing guarantees **perfect dissipation of accumulated static electricity**, thereby increasing safety.

## Product Advantages

**Security** | Low resistivity throughout the material  
 Suitable for ATEX\* areas  
 Superior longevity  
 Excellent vibration absorption  
 UV-resistant  
 Silicone-free

**Machinery Optimisation** | Minimum bend radius allowing maximum space saving  
 Good chemical resistance  
 Wide temperature range  
 Stable chemical characteristics throughout tubing



Antistatic Packaging  
 Pneumatics  
 Electronics  
 Spray Painting  
 Electrical Converters

Applications

## Technical Characteristics

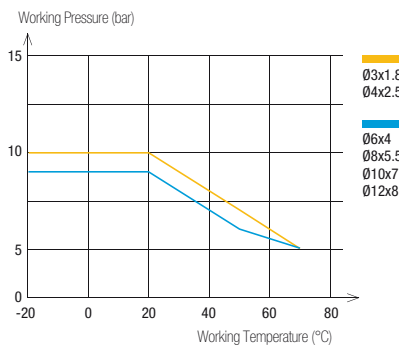
<b>Compatible Fluids</b>	Compressed air, industrial fluids
<b>Working Pressure</b>	Vacuum to 10 bar
<b>Working Temperature</b>	-20°C to +70°C
<b>Component Materials</b>	Polyurethane with conductive additive (50 shore D)

### Regulations

DI: 94/9/EC (ATEX\*)  
 DI: 1907/2006 (REACH)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 \*For ATEX areas, please consult us

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).

### Performance of Antistatic PU Tubing



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

**Packaging**  
 Tubepack\*: 25 m, 100 m



Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-101.

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





## 1025U..A Anti-Static Polyurethane (PU) Ester Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)	 R		kg
4	2.5	12	<a href="#">1025U04A01</a>	0.310
6	4	15	<a href="#">1025U06A01</a>	0.591
8	5.5	25	<a href="#">1025U08A01</a>	0.971

## 1100U..A Anti-Static Polyurethane (PU) Ester Tubing

Tubepack® 100 m

O.D. (mm)	I.D. (mm)	 R		kg
3	1.8	10	<a href="#">1100U03A01</a>	0.836
4	2.5	12	<a href="#">1100U04A01</a>	1.092
6	4	15	<a href="#">1100U06A01</a>	2.064
8	5.5	25	<a href="#">1100U08A01</a>	3.610
10	7	35	<a href="#">1100U10A01</a>	6.105
12	8	45	<a href="#">1100U12A01</a>	8.610

### Related Products

To maintain the antistatic properties throughout the circuit, it is recommended that this tubing be used with metallic fittings.

#### Push-In Fittings

[LF 3600](#) P. 1-65



[LF 3800](#) P. 1-77



[LF 3900](#) P. 1-77



#### Compression Fittings

[Brass](#) P. 5-5



[Stainless Steel](#) P. 5-31



# Anti-Spark PU Tubing

Combining **outstanding spark resistance** with superb **flexibility**, this range is perfectly suited for welding applications.

Two types of PU - ether with PVC sheath or single layer ether - are available and allow **rapid installation** with Parker Legris push-in fittings.

## Product Advantages

### PU with PVC Sheath

- High resistance to kinking and abrasion
- Non-adhesive jacket facilitating sheath removal
- Fluid direction marking
- Self-extinguishing sheath, protecting the inner tubing
- Silicone-free

### Single Layer PU

- Minimum bend radius for maximum space saving
- Significant flexibility for rapid cycling
- Good chemical resistance
- Flow direction marking
- Fireproof material
- Silicone-free



Industrial Machinery  
Compressed Air  
Robotics  
Mechanical Constraints  
Cooling  
Welding  
Cabling

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Industrial fluids, compressed air, coolants
<b>Working Pressure</b>	Vacuum to 14 bar
<b>Working Temperature</b>	-20°C to +70°C
<b>Component Materials</b>	PU ether with PVC sheath PU ether single layer

O.D. of Tube	Sheath Removal Length for LF 3600 (mm)
4 mm	15± 1
6 mm	18± 1
8 mm	19± 1
10 mm	24± 1
12 mm	25± 1

### Regulations

UL94 V-0 (Fire resistance)  
DI: 2002/95/EC (RoHS),  
2011/65/EC  
RG: 1907/2006 (REACH)

### Packaging

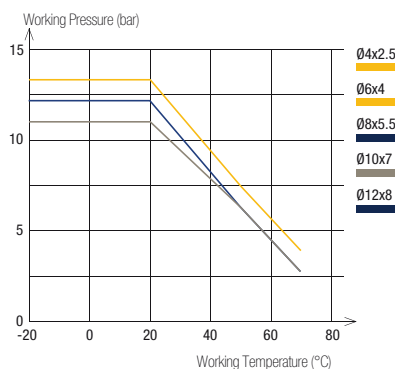
Tubepack\*: 25 m, 100 m

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).

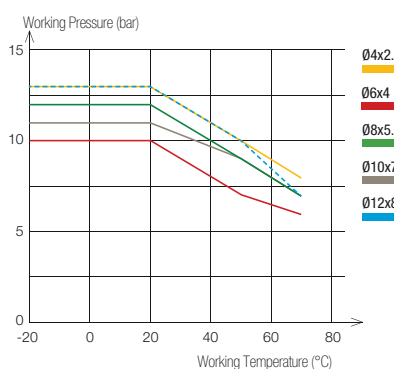
For other fitting ranges, please consult us.

### Tubing Performance

#### Anti-Spark PU Tubing, with PVC Sheath



#### Anti-Spark PU Tubing, Single Layer








Tube O.D.	Tube O.D. Tolerance	Thickness and Tolerances of PVC Sheath
4 to 8 mm	+0.10 / -0.10	1mm +0.10 / -0.10
10 to 12 mm	+0.15 / -0.15	

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-101 (inner tubing for sheathed or single layer tubing).

To calculate burst pressure, the values in these graphs should be multiplied by 3.






## 1025U..V Anti-Spark Sheath Polyurethane (PU) Ether Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)						kg
6	4	12	1025U06V01	1025U06V02	1025U06V03	1025U06V04	1.200
8	5.5	20	1025U08V01	1025U08V02	1025U08V03	1025U08V04	1.620
10	7	25	1025U10V01	1025U10V02	1025U10V03	1025U10V04	2.900
12	8	35	1025U12V01	1025U12V02	1025U12V03	1025U12V04	4.030






## 1100U..V Anti-Spark Sheath Polyurethane (PU) Ether Tubing

Tubepack® 100 m

O.D. (mm)	I.D. (mm)						kg
6	4	12	1100U06V01	1100U06V02	1100U06V03	1100U06V04	5.370
8	5.5	20	1100U08V01	1100U08V02	1100U08V03	1100U08V04	7.630
10	7	25	1100U10V01	1100U10V02	1100U10V03	1100U10V04	10.860
12	8	35	1100U12V01	1100U12V02	1100U12V03	1100U12V04	15.060






## 1025U..K Single Layer Anti-Spark Polyurethane (PU) Ether Tubing

Tubepack® 25 m



O.D. (mm)	I.D. (mm)						kg
4	2.5	12	1025U04K01	1025U04K02	1025U04K03	1025U04K04	0.230
6	4	15	1025U06K01	1025U06K02	1025U06K03	1025U06K04	0.580
8	5.5	20	1025U08K01	1025U08K02	1025U08K03	1025U08K04	0.860
10	7	25	1025U10K01	1025U10K02	1025U10K03	1025U10K04	1.230
12	8	35	1025U12K01	1025U12K02	1025U12K03	1025U12K04	2.080
14	9.5	45		1025U14K02 95	1025U14K03 95		2.620

## 1100U..K Single Layer Anti-Spark Polyurethane (PU) Ether Tubing

Tubepack® 100 m

O.D. (mm)	I.D. (mm)						kg
4	2.5	12	1100U04K01				0.900
6	4	15	1100U06K01	1100U06K02	1100U06K03	1100U06K04	2.320
8	5.5	20	1100U08K01	1100U08K02	1100U08K03	1100U08K04	3.030
10	7	25	1100U10K01	1100U10K02	1100U10K03	1100U10K04	5.100
12	8	35	1100U12K01	1100U12K02	1100U12K03	1100U12K04	8.600
14	9.5	45		1100U14K02 95	1100U14K03 95		10.676

## 6000 71 00 Stripping Tool for Anti-Spark Tubing

	Technical polymer, stainless steel		kg
		6000 71 00	0.098

Working principle of the stripping tool page 3-17

# PE Tubing

Parker Legris offers two types of polyethylene tubing: "**Advanced PE**" 50% reticulated and **Low Density PE**. Our range of "Advanced PE" is designed for demanding environments, especially that of water treatment, without compromising operator **safety**.

## Product Advantages

**Advanced PE** | 50% reticulated material  
 Best balance between flexibility and pressure/temperature resistance  
 Resistant to a wide range of aggressive chemicals  
 UV-stabilised: ideal for outdoor applications  
 Approved for permanent contact with food and beverages  
 Silicone-free

**Low Density PE** | Excellent resistance to aggressive and corrosive agents  
 Good technical trade-off  
 Food-grade material  
 Silicone-free



**Applications**  
 Beverage  
 Chemical  
 Petrochemical  
 Food Process  
 Water  
 Water Treatment

## Technical Characteristics

Tube	Advanced PE	Low Density PE
<b>Compatible Fluids</b>	Water, beverages and other fluids	Industrial fluids
<b>Working Pressure</b>	Vacuum to 16 bar	Vacuum to 20 bar
<b>Working Temperature</b>	-40°C to +95°C	-40°C to +60°C
<b>Component Materials</b>	High quality polyethylene: 50% reticulated PE 50% low density PE (44 shore D)	Low Density Polyethylene (44 shore D)

### Regulations

#### Advanced PE Tubing

FDA: 21 CFR 177.1520  
 RG: 1935/2004/EC  
 DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 NSF 42/58 (1/4" and 3/8" approved for 10 bar and 1/2" approved for 8 bar at room temperature)  
 NSF 51, 61 C-HOT  
 ACS (except for purple colour)  
 WRAS  
 RG: 1907/2006 (REACH)

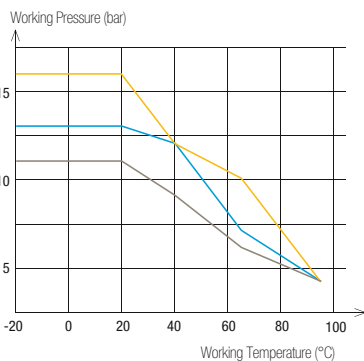
#### Low Density PE Tubing

FDA: 21 CFR 177.1520  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 97/23/EC (PED)

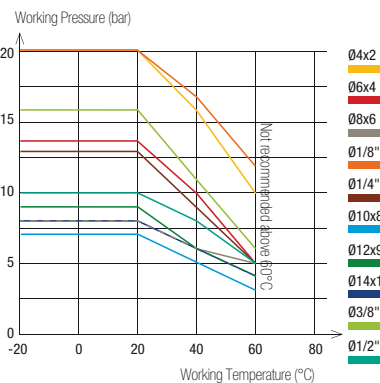
Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

### Tubing Performance

#### Advanced PE Tubing



#### Low Density PE Tubing



Tube O.D.	Tube O.D. Tolerance
1/4" to 1/2"	+0.10 / -0.10
4 to 14 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.

#### Packaging









Advanced PE Tubing  
 Tubepack®: 75 m, 150 m, 300 m  
 250 feet, 500 feet, 1 000 feet

PE Tubing  
 Tubepack®: 25 m, 100 m

To calculate burst pressure, the values in these graphs should be multiplied by 3.









## 1015Y..F Advanced Polyethylene (APE) Tubing

Drum 150 m

O.D. (mm)	I.D. (mm)									kg
4	2.5	16	1015Y04F00	1015Y04F01	1015Y04F02	1015Y04F03	1015Y04F04	1015Y04F05	1015Y04F10	1.760
6	4	32	1015Y06F00	1015Y06F01	1015Y06F02	1015Y06F03	1015Y06F04	1015Y06F05	1015Y06F10	2.580
8	5.75	40	1015Y08F00	1015Y08F01	1015Y08F02	1015Y08F03	1015Y08F04	1015Y08F05	1015Y08F10	4.050
10	7		1015Y10F00	1015Y10F01	1015Y10F02	1015Y10F03	1015Y10F04	1015Y10F05	1015Y10F10	6.200









## 1030Y..F Advanced Polyethylene (APE) Tubing

Drum 300 m

O.D. (mm)	I.D. (mm)									kg
4	2.5	16	1030Y04F00	1030Y04F01	1030Y04F02	1030Y04F03	1030Y04F04	1030Y04F05	1030Y04F10	2.860
6	4	32	1030Y06F00	1030Y06F01	1030Y06F02	1030Y06F03	1030Y06F04	1030Y06F05	1030Y06F10	4.800









## 1075Y..F Advanced Polyethylene (APE) Tubing

Drum 75 m

O.D. (mm)	I.D. (mm)									kg
12	9	55	1075Y12F00	1075Y12F01	1075Y12F02	1075Y12F03	1075Y12F04	1075Y12F05	1075Y12F10	5.550









## 1096Y..F Advanced Polyethylene (APE) Tubing

Drum 250 ft

O.D. (inch)	I.D. (inch)									kg
1/2	0.375	1.96	1096Y62F00	1096Y62F01	1096Y62F02	1096Y62F03	1096Y62F04	1096Y62F05	1096Y62F10	5.900









## 1098Y..F Advanced Polyethylene (APE) Tubing

Drum 500 ft

O.D. (inch)	I.D. (inch)									kg
1/4	0.170	0.78	1098Y56F00	1098Y56F01	1098Y56F02	1098Y56F03	1098Y56F04	1098Y56F05	1098Y56F10	3.300
3/8	0.250	1.18	1098Y60F00	1098Y60F01	1098Y60F02	1098Y60F03	1098Y60F04	1098Y60F05	1098Y60F10	6.300

## 1099Y..F Advanced Polyethylene (APE) Tubing



Drum 1000 ft

O.D. (inch)	I.D. (inch)									kg
1/4	0.170	0.78	1099Y56F00	1099Y56F01	1099Y56F02	1099Y56F03	1099Y56F04	1099Y56F05	1099Y56F10	5.500

## Low Density Polyethylene (LDPE) Tubing



### 1025Y

Tubepack® 25 m

Ø ext. (inch)	Ø int. (inch)			kg
1/8	1.57	13	1025Y53 00	0.270
1/4	4.3	32	1025Y56 00	0.400
3/8	6.35	50	1025Y60 00	0.760
1/2	9.65	64	1025Y62 00	1.330

### 1100Y

Tubepack® 100 m

O.D. (mm)	I.D. (mm)			kg
4	2	25	1100Y04 00	0.910
6	4	35	1100Y06 00	1.500
8	6	55	1100Y08 00	2.140
10	8	80	1100Y10 00	2.710
12	9	65	1100Y12 00	4.750
14	11	80	1100Y14 00	5.650

# Fluoropolymer Tubing – FEP

**FEP** (fluorinated ethylene propylene) tubing is a **robust engineering fluoropolymer** which provides excellent fluid visibility and is perfect for flow control monitoring.

## Product Advantages

**Flow Control** | Transparent  
Flexible and non-flammable material  
Resistant to nearly all chemicals and solvents

**Tried-&-Tested Properties** | Excellent transmission of UV light  
Low friction coefficient  
Food-grade material  
Low permeability  
Easily weldable  
Silicone-free



**Applications**

- Instrumentation
- Food Process
- UV
- Gas Sampling
- Chemical
- Temperature Cycling
- Laboratory

## Technical Characteristics

<b>Compatible Fluids</b>	Industrial fluids
<b>Working Pressure</b>	0 to 28 bar
<b>Working Temperature</b>	-40°C to +150°C
<b>Component Materials</b>	Fluorinated ethylene propylene (pure)

### Regulations

#### Food

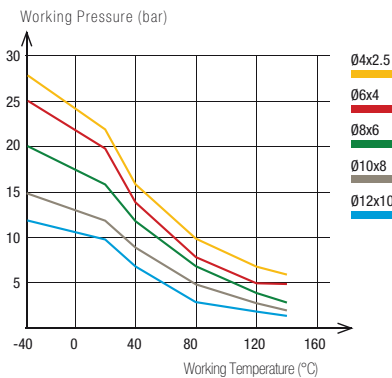
FDA: 21 CFR 177.1550  
RG: 1935/2004

#### Industrial

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

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

### Performance of FEP Tubing



Tube O.D.	Tube O.D. Tolerance
4 mm	+0.05 / -0.05
6 to 10 mm	+0.07 / -0.07
12 mm	+0.10 / -0.10



### Packaging

Tube pack: 5 m, 25 m, 100 m

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.



## 1005T Fluoropolymer (FEP) Tubing

Tubepack® 5 m

O.D. (mm)	I.D. (mm)	 R	 Clear	kg
4	2.5	40	<a href="#">1005T04 00 25</a>	0.155
6	4	50	<a href="#">1005T06 00</a>	0.250
8	6	70	<a href="#">1005T08 00</a>	0.385
10	8	120	<a href="#">1005T10 00</a>	0.524
12	10	180	<a href="#">1005T12 00</a>	0.547

## 1025T Fluoropolymer (FEP) Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)	 R	 Clear	kg
4	2.5	40	<a href="#">1025T04 00 25</a>	0.506
6	4	50	<a href="#">1025T06 00</a>	1.025
8	6	70	<a href="#">1025T08 00</a>	1.431
10	8	120	<a href="#">1025T10 00</a>	1.693
12	10	180	<a href="#">1025T12 00</a>	1.913

## Related Products

Parker Legris stainless steel fittings are perfectly suited for use with fluoropolymer tubing (PFA, FEP).

### Push-In Fittings

[LF 3800](#) P. 1-77



[LF 3900](#) P. 1-77



### Compression Fittings

[Stainless Steel](#) P. 5-31



# 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
- Silicone-free

### Three Material Grades

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



- Food-Process
- Fuel Cells
- Electrical/Electronics
- Aircraft
- Oil/Gas Industry
- Pharmaceutical
- Medical
- Chemical
- Clean Rooms

Applications

## Technical Characteristics

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

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

USP: Class VI (A)  
External communication devices

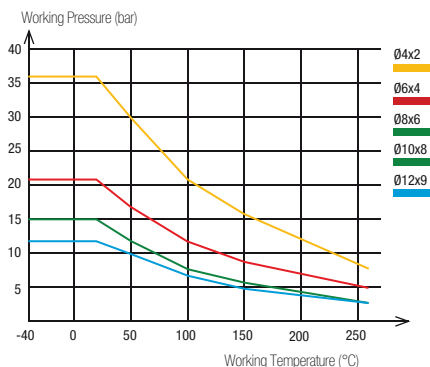
#### Industrial

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  
NSF 51 (material)

### 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)		 Clear	 crystal	 crystal	 crystal	kg
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






## 1050T..P Fluoropolymer (PFA) Tubing

Tubepack® 50 m

O.D. (mm)	I.D. (mm)		 Clear	 crystal	 crystal	 crystal	kg
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



## 1100T..P Fluoropolymer (PFA) Tubing

Tubepack® 100 m

O.D. (mm)	I.D. (mm)		 Clear	 crystal	 crystal	 crystal	kg
4	2	12	1100T04P00	1100T04P12	1100T04P13	1100T04P14	0.870
6	4	34	1100T06P00	1100T06P12	1100T06P13	1100T06P14	2.370
8	6	60	1100T08P00	1100T08P12	1100T08P13	1100T08P14	4.100
10	8	95	1100T10P00	1100T10P12	1100T10P13	1100T10P14	7.230
12	9	120	1100T12P00	1100T12P12	1100T12P13	1100T12P14	11.480



## 1010T..A Fluoropolymer (PFA) Antistatic Tubing

Tubepack® 10 m

O.D. (mm)	I.D. (mm)			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)			kg
4	2	12	1050T04A01	0.435
6	4	34	1050T06A01	1.185
8	6	60	1050T08A01	2.050
10	8	95	1050T10A01	0.362
12	9	120	1050T12A01	5.740

# Multi-Tubing

Our range of multi-tubing combines high quality performance and **space optimisation** in complex pneumatic circuits **covering a wide range of environments**. Many possible **configurations** are available, depending on the pressure, temperature, flexibility and compatibility requirements.

## Product Advantages

### Sheathed PA Tubing

- PVC sheath resistant to external damage:
  - abrasion
  - weld spatter
  - aggressive fluids
- Helically wound: minimum bend radius, compact installation
- Simplified routing
- Easy identification of circuits
- Same technical performance as PA
- Possible number of tubes: from 2 to 12, with numbering
- Silicone-free



### Twin PU Ester Tubing

- Tubes fully joined for improved solidity
- External diameter maintained after separation
- Rapid identification of circuits
- Quick and easy installation
- Simplified routing
- 3 colour combinations available
- Silicone-free

**Applications**

Pneumatics  
Automation  
Robotics  
Transportation  
In-Plant Automotive  
Process Industry

## Technical Characteristics

Tube	PA	PU
<b>Compatible Fluids</b>	Compressed air, chemicals, industrial fluids	Compressed air, industrial fluids
<b>Working Pressure</b>	Vacuum to 24 bar	0 to 14 bar
<b>Working Temperature</b>	-40°C to +80°C	-20°C to +70°C
<b>Component Materials</b>	Polyamide	Polyurethane ester

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

#### Industrial

DI: 2002/95/EC (RoHS), 2011/65/EC  
DI: 97/23/EC (PED)  
RG: 1907/2006 (REACH)

Performance and chemical resistance according to DIN 73378

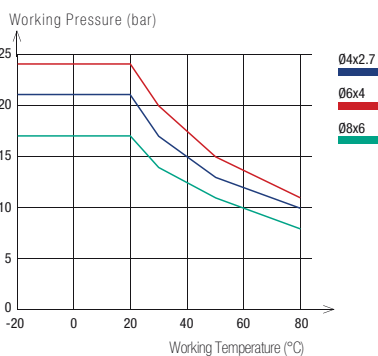
### Packaging

Sheathed PA Tubing:  
Tubepack® 10 m, 50 m

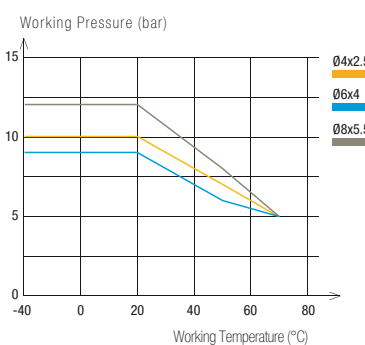
Twin PU Ester Tubing:  
Tubepack® 25 m

### Tubing Performance

#### Sheathed PA Tubing



#### Twin PU Ester Tubing





Material	Tube O.D.	Tube O.D. Tolerance
PA	4 mm	+0.05 / -0.08
	6 to 8 mm	+0.05 / -0.10
PU	4 to 8 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-100 (for semi-rigid PA) and NF E49-101 (for twin PU ester).

To calculate burst pressure, the values in these graphs should be multiplied by 3.



## 1010P.. M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 10 m

O.D. (mm)	I.D. (mm)		Number of tubes		kg
4	2.7	35	4	<a href="#">1010P04 00M04</a>	1.440
4	2.7	45	7	<a href="#">1010P04 00M07</a>	1.920
6	4	55	4	<a href="#">1010P06 00M04</a>	2.300
6	4	60	7	<a href="#">1010P06 00M07</a>	2.900
8	6	45	2	<a href="#">1010P08 00M02</a>	2.600





## 1050P.. M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 50 m

O.D. (mm)	I.D. (mm)		Number of tubes		kg
4	2.7	20	2	<a href="#">1050P04 00M02</a>	4.400
4	2.7	35	4	<a href="#">1050P04 00M04</a>	6.600
4	2.7	45	7	<a href="#">1050P04 00M07</a>	8.200
4	2.7	55	12	<a href="#">1050P04 00M12</a>	12.444
6	4	45	2	<a href="#">1050P06 00M02</a>	8.400
6	4	55	4	<a href="#">1050P06 00M04</a>	14.500
6	4	60	7	<a href="#">1050P06 00M07</a>	12.500
8	6	45	2	<a href="#">1050P08 00M02</a>	13.000

## 1420U Twin Polyurethane (PU) Tubing

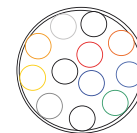
Tubepack® 25 m

O.D. tube (mm)	I.D. tube (mm)					kg
4	2.5	12	<a href="#">1420U04 11</a>	<a href="#">1420U04 44</a>	<a href="#">1420U04 41</a>	0.620
6	4	15	<a href="#">1420U06 11</a>	<a href="#">1420U06 44</a>	<a href="#">1420U06 41</a>	1.182
8	5.5	20	<a href="#">1420U08 11</a>	<a href="#">1420U08 44</a>	<a href="#">1420U08 41</a>	1.942

### Colour Selection



Multi-Tubing  
Semi-Rigid PA/PVC Sheath



## Related Products

To complement the Multi-Tubing range, Parker Legris proposes multi-connectors, shown in Chapter 1.

### Push-In Fittings

#### Multi-Connector P.1-31



# PA Recoil Tubing

Parker Legris recoil tubing has a **lasting memory after multiple uses**, offering an **alternative to reels** for excellent ergonomics and space saving.

The pre-assembled tubes are equipped with a protection spring, preventing damage to the ends.

## Product Advantages

### Excellent Mechanical Properties

- Low pressure drop
- Good chemical compatibility
- Self-retracting
- Identical technical performance to PA tubing
- Silicone-free

### Comprehensive Range

- Ready-to-use
- Various colours for circuit identification
- Available with pre-assembled connectors



**Applications**

- MRO
- Pneumatic Tools
- Transportation
- Lubrication
- Industrial Cleaning
- Robotics
- Car Washing

## Technical Characteristics

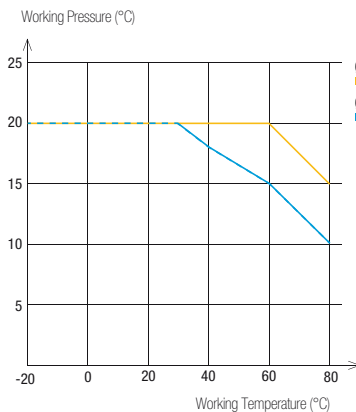
<b>Compatible Fluids</b>	Compressed air, lubricants, Other fluids: please consult us
<b>Working Pressure</b>	Vacuum to 20 bar
<b>Working Temperature</b>	-20°C to +80°C
<b>Component Materials</b>	Polyamide (68 Shore D)

### Regulations

DI: 97/23/EC (PED)  
 RG: 1907/2006 (REACH)  
 DI: 2002/95/EC (RoHS), 2011/65/EC

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).

### Performance of PA Recoil Tubing





Tube O.D.	Passage	Tube O.D. Tolerance
6 mm	4 mm	+0.05 / -0.10
8 mm	6 mm	+0.05 / -0.10

### Packaging

Plastic bags: 2m to 6 m  
 Other lengths and colours on request


To calculate burst pressure, the values in these graphs should be multiplied by 3.

## 1470P Polyamide (PA) Recoil Tubing 2 m, Male BSPT Fitting

O.D. (mm)	I.D. (mm)	BSPT Thread			Total Closed Length (mm)	O.D. of Coil (mm)	kg
6	4	R1/4	<a href="#">1470P06 04 13</a>	<a href="#">1470P06 07 13</a>	520	60	0.143
8	6		<a href="#">1470P08 04 13</a>	<a href="#">1470P08 07 13</a>	560	70	0.174



Length of long straight section: 300 mm  
Length of short straight section: 100 mm

## 1471P Polyamide (PA) Recoil Tubing 4 m, Male BSPT Fitting

O.D. (mm)	I.D. (mm)	BSPT Thread			Total Closed Length (mm)	O.D. of Coil (mm)	kg
6	4	R1/4	<a href="#">1471P06 04 13</a>	<a href="#">1471P06 07 13</a>	640	60	0.199
8	6		<a href="#">1471P08 04 13</a>	<a href="#">1471P08 07 13</a>	720	70	0.249

Length of long straight section: 300 mm  
Length of short straight section: 100 mm

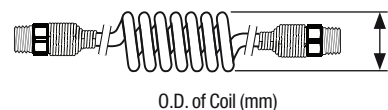
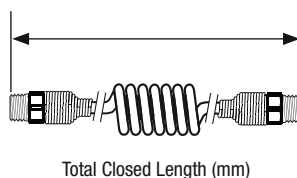
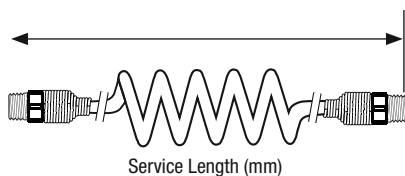
## 1472P Polyamide (PA) Recoil Tubing 6 m, Male BSPT Fitting

O.D. (mm)	I.D. (mm)	BSPT Thread			Total Closed Length (mm)	O.D. of Coil (mm)	kg
6	4	R1/4	<a href="#">1472P06 04 13</a>	<a href="#">1472P06 07 13</a>	760	60	0.260
8	6		<a href="#">1472P08 04 13</a>	<a href="#">1472P08 07 13</a>	880	70	0.329

Length of long straight section: 300 mm  
Length of short straight section: 100 mm

### Dimensions for Recoil Tubing

Service length: maximum recommended operating length in order to ensure that the coil will continue to contract after multiple uses.



# PU Recoil Tubing

With its small coil diameter and good impact resistance, this polyurethane recoil tubing is perfect for installations requiring **flexibility** in confined spaces. Good resistance to shock and abrasion, together with a design integrating straight ends, allow for **easy and safe operation** of pneumatic equipment.

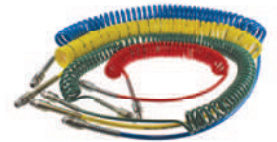
## Product Advantages

### Excellent Mechanical Properties

- Excellent coil memory
- Abrasion-resistant
- Perfect for rapid cycling applications
- Consistent tensile strength
- Optimum longevity
- Low pressure drop
- Lightweight with plastic protection spring
- Silicone-free

### Comprehensive Range

- Available in 2 materials: PU ester and PU ether
- With or without pre-assembled fittings
- Pre-assembled plastic or metal protection springs to prevent damage to equipment and tubing



**Applications**

- Workshops
- Tooling
- Pneumatics
- Motion Technologies
- Robotics
- Industrial Machinery

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	0 to 10 bar
<b>Working Temperature</b>	-20°C to +70°C (assembled tubing)
<b>Component Materials</b>	Polyurethane (52 Shore D)

### Regulations

**Industrial**  
 NF E49-101  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 97/23/EC (PED)  
 RG: 1907/2006 (REACH)

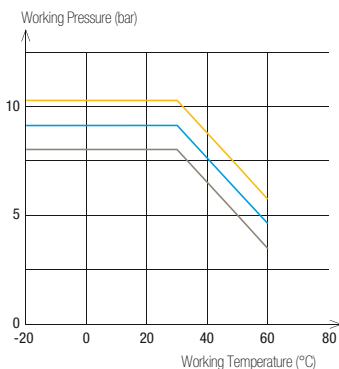
### Packaging

Plastic bags : from 2 m to 7.5 m

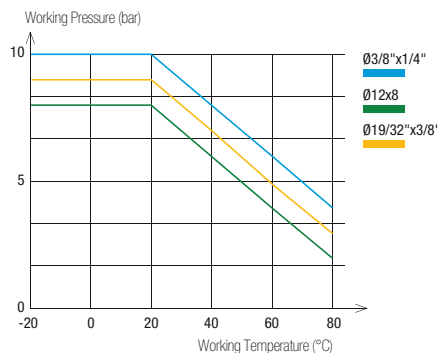
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

### Performance of PU Recoil Tubing

#### PU Ester Recoil Tubing






#### PU Ether Recoil Tubing



Tube O.D.	Tube I.D.	Tube O.D. Tolerance
4 to 8 mm	2.5 to 5.5 mm	+0.10 / -0.10
10 to 12 mm	7 to 8 mm	+0.15 / -0.15
3/8" and 19/32"	1/4" and 3/8"	+/- 0.005"




To calculate burst pressure, the values in these graphs should be multiplied by 3.

## 1470U Polyurethane (PU) Ester Recoil Tubing 2 m, Male BSPT Fitting

O.D. (mm)	I.D. (mm)	BSPT Thread				Total Closed Length (mm)	O.D. of Coil (mm)	kg
4	2.5	R1/8	<a href="#">1470U04 03 10</a>	<a href="#">1470U04 04 10</a>	<a href="#">1470U04 05 10</a>	595	24	0.060
6	4	R1/4	<a href="#">1470U06 03 13</a>	<a href="#">1470U06 04 13</a>	<a href="#">1470U06 05 13</a>	630	32	0.060
8	5	R1/4	<a href="#">1470U08 03 13</a>	<a href="#">1470U08 04 13</a>	<a href="#">1470U08 05 13</a>	780	42	0.120
10	7	R1/4	<a href="#">1470U10 03 13</a>	<a href="#">1470U10 04 13</a>	<a href="#">1470U10 05 13</a>	780	62	0.160
12	8	R3/8	<a href="#">1470U12 03 17</a>	<a href="#">1470U12 04 17</a>	<a href="#">1470U12 05 17</a>	780	65	0.190




Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

## 1471U Polyurethane (PU) Ester Recoil Tubing 4 m, Male BSPT Fitting

O.D. (mm)	I.D. (mm)	BSPT Thread				Total Closed Length (mm)	O.D. of Coil (mm)	kg
4	2.5	R1/8	<a href="#">1471U04 03 10</a>	<a href="#">1471U04 04 10</a>	<a href="#">1471U04 05 10</a>	785	24	0.100
6	4	R1/4	<a href="#">1471U06 03 13</a>	<a href="#">1471U06 04 13</a>	<a href="#">1471U06 05 13</a>	850	32	0.160
8	5	R1/4	<a href="#">1471U08 03 13</a>	<a href="#">1471U08 04 13</a>	<a href="#">1471U08 05 13</a>	1000	42	0.200
10	7	R1/4	<a href="#">1471U10 03 13</a>	<a href="#">1471U10 04 13</a>	<a href="#">1471U10 05 13</a>	1000	62	0.230
12	8	R3/8	<a href="#">1471U12 03 17</a>	<a href="#">1471U12 04 17</a>	<a href="#">1471U12 05 17</a>	1140	65	0.260


Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

## 1472U Polyurethane (PU) Ester Recoil Tubing 6 m, Male BSPT Fitting

O.D. (mm)	I.D. (mm)	BSPT Thread				Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	R1/4	<a href="#">1472U08 03 13</a>	<a href="#">1472U08 04 13</a>	<a href="#">1472U08 05 13</a>	1230	42	0.280
10	7	R1/4	<a href="#">1472U10 03 13</a>	<a href="#">1472U10 04 13</a>	<a href="#">1472U10 05 13</a>	1140	62	0.295
12	8	R3/8	<a href="#">1472U12 03 17</a>	<a href="#">1472U12 04 17</a>	<a href="#">1472U12 05 17</a>	1190	65	0.310


Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

## 1460U Polyurethane (PU) Ester Recoil Tubing 2 m

O.D. (mm)	I.D. (mm)		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	<a href="#">1460U08 04</a>	780	42	0.064
10	7	<a href="#">1460U10 04</a>	780	62	0.122
12	8	<a href="#">1460U12 04</a>	780	65	0.172


Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

## 1461U Polyurethane (PU) Ester Recoil Tubing 4 m

O.D. (mm)	I.D. (mm)		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	<a href="#">1461U08 04</a>	1000	42	0.128
10	7	<a href="#">1461U10 04</a>	1000	62	0.244
12	8	<a href="#">1461U12 04</a>	1000	65	0.344

Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm


## 1462U Polyurethane (PU) Ester Recoil Tubing 6 m

O.D. (mm)	I.D. (mm)		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	<a href="#">1462U08 04</a>	1230	42	0.192
10	7	<a href="#">1462U10 04</a>	1140	62	1.246
12	8	<a href="#">1462U12 04</a>	1190	65	0.280


Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

# PU Recoil Tubing


## 1445U..R Recoil Polyurethane (PU) Ether Tubing 3 m, Male BSPP Fitting

O.D. (mm)	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	<a href="#">1445U08R04 13</a>	819	40	0.170
3/8"	1/4"	G1/4	<a href="#">1445U60R04 13</a>	769	60	0.230
12	8	G3/8	<a href="#">1445U12R04 17</a>	789	80	0.310
14	9.5	G3/8	<a href="#">1445U14R04 17</a>	759	110	0.460


## 1441U..R Recoil Polyurethane (PU) Ether Tubing 4 m, Male BSPP Fitting

O.D. (mm)	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	<a href="#">1441U08R04 13</a>	889	40	0.220
3/8"	1/4"	G1/4	<a href="#">1441U60R04 13</a>	819	60	0.260
12	8	G3/8	<a href="#">1441U12R04 17</a>	849	80	0.400
14	9.5	G3/8	<a href="#">1441U14R04 17</a>	809	110	0.554

## 1442U..R Recoil Polyurethane (PU) Ether Tubing 6 m, Male BSPP Fitting

O.D. (mm)	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	<a href="#">1442U08R04 13</a>	1029	40	0.340
3/8"	1/4"	G1/4	<a href="#">1442U60R04 13</a>	929	60	0.360
12	8	G3/8	<a href="#">1442U12R04 17</a>	969	80	0.530
14	9.5	G3/8	<a href="#">1442U14R04 17</a>	909	110	0.920


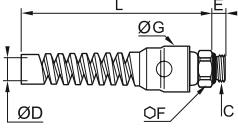

## 1447U..R Recoil Polyurethane (PU) Ether Tubing 7.5 m, Male BSPP Fitting

O.D. (mm)	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	<a href="#">1447U08R04 13</a>	1134	40	0.420
3/8"	1/4"	G1/4	<a href="#">1447U60R04 13</a>	1009	60	0.460
12	8	G3/8	<a href="#">1447U12R04 17</a>	1059	80	0.600
14	9.5	G3/8	<a href="#">1447U14R04 17</a>	984	110	1.150


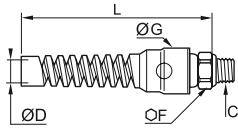



# Accessories

## 0694 Push-In Fitting with Protection Spring, Male BSPP Thread

		Nickel-plated brass, NBR		<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
		8	G1/4	<a href="#">0694 08 13</a>	6.5	16	24	104.5	0.067		
		10	G1/4	<a href="#">0694 10 13</a>	6.5	18	24	106.5	0.062		
		12	G3/8	<a href="#">0694 12 17</a>	7.5	20	29.5	126	0.080		

## 0695 Push-In Fitting with Protection Spring, Male BSPT Thread

		Nickel-plated brass, NBR		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
		8	R1/4	<a href="#">0695 08 13</a>	14	24	104.5	0.055		
		10	R1/4	<a href="#">0695 10 13</a>	18	24	106.5	0.064		
		12	R3/8	<a href="#">0695 12 17</a>	20	29.5	126	0.090		

# Braided PU Recoil Hose

This recoil hose offers all the advantages of polyurethane, combining the **durability** and **kink resistance** of bulkier braided hoses with great **elasticity** and maximum **flexibility**.

## Product Advantages

### Excellent Mechanical Properties

Unsurpassed resistance to abrasion: 10 times better than rubber, polyamide and non-braided polyurethane  
 Excellent flexibility and coil memory: minimizes work fatigue  
 Highly kink and crush-resistant  
 Silicone-free

### Ready-to-Use

Pre-assembled threaded fittings  
 Tube ends protected with a plastic spring  
 Lightweight for easy handling  
 3 lengths available  
 Translucent blue: visibility of the fluid



Machine Tools  
 Industrial Assembly  
 Pneumatics  
 In-Plant Automotive  
 Workshops

Applications

## Technical Characteristics

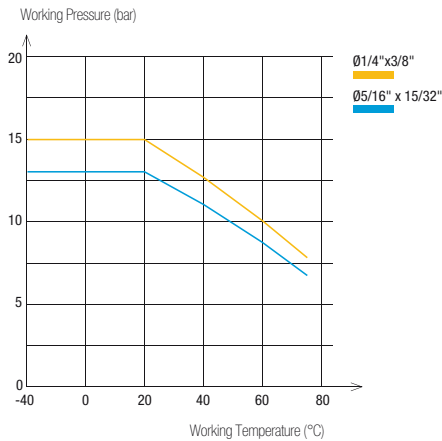
<b>Compatible Fluids</b>	Compressed air Other fluids: please consult us
<b>Working Pressure</b>	0 to 15 bar
<b>Working Temperature</b>	-40°C to +75°C
<b>Component Materials</b>	Polyurethane (85 shore A)

### Regulations

DI: 97/23/EC(PED)  
 RG: 1907/2006 (REACH)  
 DI: 2002/95/EC (RoHS), 2011/65/EC

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

### Performance of Braided PU Recoil Hose



Hose O.D.	Hose I.D.	Hose I.D. Tolerance
3/8" 15/32"	1/4" 5/16"	+/- 0.005"


### Packaging

Plastic bags: 3 m to 7.5 m


Connected to Parker Legris push-in fittings, the calibration of PU tubing ensures perfect sealing.

To calculate burst pressure, the values in this graph should be multiplied by 4.


## 1445U..E Braided Polyurethane (PU) Recoil Hose 3 m, Male BSPP Fitting

Ø ext. (mm)	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
3/8"	1/4"	G1/4	<a href="#">1445U60E04 13</a>	870	42	0.210
12	8	G3/8	<a href="#">1445U12E04 17</a>	880	55	0.300

## 1442U..E Braided Polyurethane (PU) Recoil Hose 6 m, Male BSPP Fitting

O.D. (mm)	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
3/8"	1/4"	G1/4	<a href="#">1442U60E04 13</a>	1140	42	0.420
12	8	G3/8	<a href="#">1442U12E04 17</a>	1160	55	0.600

## 1447U..E Braided Polyurethane (PU) Recoil Hose 7.5 m, Male BSPP Fitting

O.D. (mm)	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
3/8"	1/4"	G1/4	<a href="#">1447U60E04 13</a>	1275	42	0.525
12	8	G3/8	<a href="#">1447U12E04 17</a>	1300	55	0.750

### Related Products

Parker Legris recoil tubing is designed for use with Parker Legris blowguns and couplers.

#### Industrial Blowguns

**Polymer** P.7-3



**Metal** P.7-12



#### Couplers

**C 9000** P.8-7



**Metal** P.8-18



# PVC Braided Hose

Parker Legris offers two **grades of PVC** which cover a wide range of industrial applications for the **transportation of various fluids**.

## Product Advantages

**Food-Grade PVC** Monograde tubing reinforced with a braided polyester ply  
 Flexible: space saving during installation  
 Translucent for visual identification:

- of the fluid
- of inner cleanliness
- of fluid flow

Food-grade, without phthalates  
 Silicone-free

**Industrial PVC** Tubing with a braided polyester ply between 2 grades of PVC  
 Resistant to abrasion, impact and crushing  
 Increased durability  
 Lightweight and easy-to-use  
 Silicone-free



**Applications**

- Robotics
- In-Plant Automotive
- Pneumatics
- Semi-Conductors
- Textile
- Packaging
- Vacuum

## Technical Characteristics

Hose	Food-Grade PVC	Industrial PVC
<b>Compatible Fluids</b>	Compressed air, other fluids	Compressed air
<b>Working Pressure</b>	0 to 15 bar	0 to 15 bar
<b>Working Temperature</b>	-20°C to +70°C	-25°C to +60°C
<b>Component Materials</b>	Translucent food-grade PVC, phthalate-free with polyester braid	Industrial blue PVC, multi-layer, with polyester braid

### Regulations

#### Food-Grade PVC

FDA: 21 CFR 177.1550  
 RG: 1907/2006 (REACH)  
 RG: 1935/2004  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 2007/10/EC (phthalates)

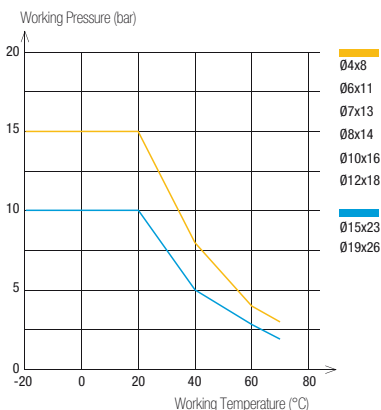
#### Industrial PVC

DI: 97/23/CE (PED)  
 RG: 1907/2006 (REACH)  
 DI: 2002/95/EC (RoHS), 2011/65/EC

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

### Hose Performance

#### Food-Grade PVC



Hose Type	Hose I.D.	Hose I.D. Tolerance
<b>Food-Grade PVC</b>	4 to 6 mm	+0.5 / -0.5
	7 to 12 mm	+0.6 / -0.6
	15 to 19 mm	+0.8 / -0.8
<b>Industrial PVC</b>	6.3 mm	+0.3 / -0.3
	9 mm	+0.5 / -0.5
	12.7 mm	+0.6 / -0.6

#### Packaging



Reel: 25 m, 50 m  
 (with protective plastic bag)

To calculate burst pressure, the values in these graphs should be multiplied by 3.

## 1025V

### Food-Grade Braided PVC Hose



Reel 25 m

O.D. (mm)	I.D. (mm)	 R	 Clear	kg
8	4	10	<a href="#">1025V08 00 04</a>	1.260
11	6	12	<a href="#">1025V11 00 06</a>	2.253
13	7	14	<a href="#">1025V13 00 07</a>	3.182
14	8	16	<a href="#">1025V14 00 08</a>	3.434
16	10	25	<a href="#">1025V16 00 10</a>	3.800
18	12	30	<a href="#">1025V18 00 12</a>	4.423
23	15	40	<a href="#">1025V23 00 15</a>	7.300
26	19	60	<a href="#">1025V26 00 19</a>	7.300

## 1050V

### Food-Grade Braided PVC Hose



Reel 50 m

O.D. (mm)	I.D. (mm)	 R	 Clear	kg
8	4	10	<a href="#">1050V08 00 04</a>	2.690
11	6	12	<a href="#">1050V11 00 06</a>	4.200
13	7	14	<a href="#">1050V13 00 07</a>	5.966
14	8	16	<a href="#">1050V14 00 08</a>	6.058
16	10	25	<a href="#">1050V16 00 10</a>	6.400
18	12	30	<a href="#">1050V18 00 12</a>	8.250
23	15	40	<a href="#">1050V23 00 15</a>	14.600
26	19	60	<a href="#">1050V26 00 19</a>	14.600

## 1025V..C

### Industrial-Grade Braided PVC Hose



Reel 25 m

O.D. (mm)	I.D. (mm)	 R		kg
11	6	45	<a href="#">1025V11C04 06</a>	2.175
14	9	63	<a href="#">1025V14C04 09</a>	3.250
19	13	89	<a href="#">1025V19C04 13</a>	4.975

## 1050V..C

### Industrial-Grade Braided PVC Hose

Reel 50 m

O.D. (mm)	I.D. (mm)	 R		kg
11	6	45	<a href="#">1050V11C04 06</a>	4.350
14	9	63	<a href="#">1050V14C04 09</a>	6.500
19	13	89	<a href="#">1050V19C04 13</a>	9.950

## Related Products

PVC tubing is designed for use with Parker Legris barb connectors and couplers.

### Barb Connectors

**0191** P. 9-16



**0123** P. 9-10



### Couplers

**C 9000** P. 8-7



**Metal** P. 8-18



# Self-Fastening NBR Hose

Parker Legris self-fastening hose is designed according to **CNOMO E07.21.115N\***. This range of hose should be used with Legris barb connectors and provides both the **reliability** of self-fastening technology and **simplicity of installation**.

## Product Advantages

**Exceptional Endurance** | Unsurpassed resistance to repetitive flexing  
Protection against spark and flame  
Abrasion and crush-resistant  
UV-resistant

**Ideal for In-Plant Automotive** | Excellent ozone resistance  
Perfect for cooling systems  
Maximum flow with no pressure drop  
4 colours for immediate circuit identification  
Silicone-free

**Ready-To-Use** | No lubrication, additive (grease, oil, ...etc), or preparation time required  
To connect: push the hose fully home against the fitting shoulder  
To disassemble: cut the hose on the barbed side of the fitting



In-Plant Automotive  
Cooling  
Welding Robots  
Pneumatics  
Industrial Machinery

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Coolants, compressed air
<b>Working Pressure</b>	0 to 16 bar
<b>Working Temperature</b>	-20°C to +100°C
<b>Component Materials</b>	Nitrile butadiene rubber & textile braid

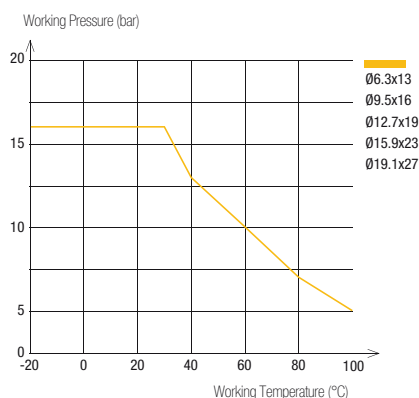
### Regulations

NFT 46-019-1  
NFT 47 252  
RG: 1907/2006 (REACH)  
DI: 2002/95/EC (RoHS), 2011/65/EC  
CNOMO: E07.21.115N

**\*CAUTION:** CNOMO certification is valid exclusively for red and green hose, only when connected to Legris' CNOMO-certified barb connectors 0132, 0133 and 0134.

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

### Performance of Self-Fastening NBR Hose



DN mm CNOMO	DN (standard)	Hose I.D. (mm)	Hose I.D. Tolerance (mm)
6	1/4	6.3 mm	+0.4 / -0.4
8	3/8	9.5 mm	+0.5 / -0.5
12	1/2	12.7 mm	+0.6 / -0.6
16	5/8	15.9 mm	
20	3/4	19.1 mm	

### Packaging






Drum: 20 m, 40 m, 80 m, 100 m

Use with water: maximum temperature 100°C  
Use with air: maximum temperature 70°C

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

## 1040H Braided Self-Fastening NBR Hose






Drum 40 m

DN	O.D. (mm)	I.D. (mm)						kg
1/4	13	6.3	60	<a href="#">1040H56 01</a>	<a href="#">1040H56 02</a>	<a href="#">1040H56 03</a>	<a href="#">1040H56 04</a>	7.000
3/8	16	9.5	70	<a href="#">1040H60 01</a>	<a href="#">1040H60 02</a>	<a href="#">1040H60 03</a>	<a href="#">1040H60 04</a>	8.600
1/2	19	12.7	120	<a href="#">1040H62 01</a>	<a href="#">1040H62 02</a>	<a href="#">1040H62 03</a>	<a href="#">1040H62 04</a>	9.450
5/8	23	15.9	140	<a href="#">1040H66 01</a>	<a href="#">1040H66 02</a>	<a href="#">1040H66 03</a>	<a href="#">1040H66 04</a>	13.000
3/4	27	19.1	170	<a href="#">1040H69 01</a>	<a href="#">1040H69 02</a>	<a href="#">1040H69 03</a>	<a href="#">1040H69 04</a>	16.500

Also available in 20 m length upon request

## 1080H Braided Self-Fastening NBR Hose






Drum 80 m

DN	O.D. (mm)	I.D. (mm)						kg
5/8	23	15.9	140	<a href="#">1080H66 01</a>	<a href="#">1080H66 02</a>	<a href="#">1080H66 03</a>	<a href="#">1080H66 04</a>	26.160
3/4	27	19.1	170	<a href="#">1080H69 01</a>	<a href="#">1080H69 02</a>	<a href="#">1080H69 03</a>	<a href="#">1080H69 04</a>	33.160

Also available in 20 m length upon request

## 1100H Braided Self-Fastening NBR Hose

Drum 100 m

DN	O.D. (mm)	I.D. (mm)						kg
1/4	13	6.3	60	<a href="#">1100H56 01</a>	<a href="#">1100H56 02</a>	<a href="#">1100H56 03</a>	<a href="#">1100H56 04</a>	14.660
3/8	16	9.5	70	<a href="#">1100H60 01</a>	<a href="#">1100H60 02</a>	<a href="#">1100H60 03</a>	<a href="#">1100H60 04</a>	20.600
1/2	19	12.7	120	<a href="#">1100H62 01</a>	<a href="#">1100H62 02</a>	<a href="#">1100H62 03</a>	<a href="#">1100H62 04</a>	23.000

Also available in 20 m length upon request

### Related Products

Self-fastening hose is designed for use with Parker Legris brass barb connectors (CNOMO-certified).

#### Barb Connectors

**0132** P. 5-25    **0133 .. 39** P. 5-25    **0134** P. 5-25



#### Installation Tool

**Tool Part Number:**  
**0650 00 00 05**

This automatic installation tool reduces the effort required to connect self-fastening hose onto a barb connector.



#### Tube Cutting and Positioning

Cut the tube at a right angle and position the barb connector on the mounting tool.

Barb connector support



#### Press-Fitting the Tube


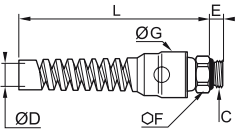

Activate the press-fit tool; connection is complete when the tube is fully home on the barb connector. This tool has been designed for use with 5 different diameters and is easy to operate.

Barb connector support


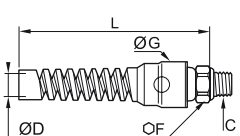



# Accessories


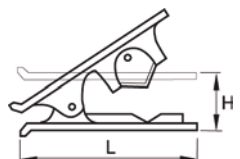

## 0694 Push-In Fitting with Protection Spring, Male BSPP Thread

	Nickel-plated brass, NBR 		<b>ØD</b> <b>C</b>	<b>E</b> <b>F</b> <b>G</b> <b>L</b> <b>kg</b>
		8    G1/4 <a href="#">0694 08 13</a>	6.5    16    24    104.5    0.067	
		10    G1/4 <a href="#">0694 10 13</a>	6.5    18    24    106.5    0.062	
		12    G3/8 <a href="#">0694 12 17</a>	7.5    20    29.5    126    0.080	



## 0695 Push-In Fitting with Protection Spring, Male BSPT Thread

	Nickel-plated brass, NBR 		<b>ØD</b> <b>C</b>	<b>F</b> <b>G</b> <b>L</b> <b>kg</b>
		8    R1/4 <a href="#">0695 08 13</a>	14    24    104.5    0.055	
		10    R1/4 <a href="#">0695 10 13</a>	18    24    106.5    0.064	
		12    R3/8 <a href="#">0695 12 17</a>	20    29.5    126    0.090	



## 3000 71 00 Tube Cutter

	Technical polymer 		<b>H</b> <b>L</b> <b>kg</b>
		<a href="#">3000 71 00</a>	25    79    0.029
This tool is designed to give a clean cut at right angles to the tube axis for all resilient polymer tubing (polyamide, polyurethane, FEP, polyethylene, etc.) from 4 mm to 12 mm diameter inclusive. Replacement blades: part number 3000 71 00 05 A spring maintains the cutter in the closed position.			

## 3000 71 11 Tube Cutter


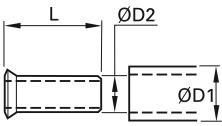

	Treated steel		<b>kg</b>
		<a href="#">3000 71 11</a>	0.227

## 6000 71 00 Stripping Tool for Anti-Spark Tubing


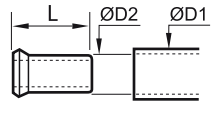

	Technical polymer, stainless steel		<b>kg</b>
		<a href="#">6000 71 00</a>	0.098
Working principle of the stripping tool page 3-17			




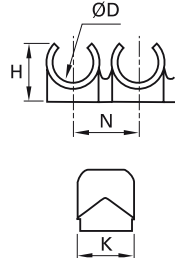

## 1827 Stainless Steel Tube Support for Fluoropolymer Tubing

	Stainless steel 316L 	<b>ØD1</b>	<b>ØD2</b>		<b>L</b>	<b>kg</b>
		6	4	<a href="#">1827 06 00</a>	11.5	0.001
		8	6	<a href="#">1827 08 00</a>	14	0.001
		10	8	<a href="#">1827 10 00</a>	18	0.001
		12	9	<a href="#">1827 12 09</a>	18	0.001
		16	10	<a href="#">1827 12 00</a>	18	0.001
			14	<a href="#">1827 16 00</a>	18	0.002
This tube support is necessary when using fluoropolymer FEP tubing at all temperatures compatible with the fitting/ tubing assembly.						


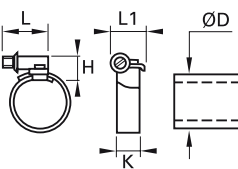

## 0127 Brass Tube Support for Polymer Tubing

	Brass 	<b>ØD1</b>	<b>ØD2</b>		<b>L</b>	<b>kg</b>
		4	2	<a href="#">0127 04 00</a>	11	0.001
			2.7	<a href="#">0127 04 27</a>	11	0.001
		5	3	<a href="#">0127 05 03</a>	11	0.001
			3.3	<a href="#">0127 05 00</a>	11.5	0.009
		6	4	<a href="#">0127 06 00</a>	11.5	0.001
			5.5	<a href="#">0127 08 55</a>	14	0.001
		8	6	<a href="#">0127 08 00</a>	14	0.001
			7	<a href="#">0127 10 07</a>	18	0.001
		10	7.5	<a href="#">0127 10 75</a>	18	0.001
			8	<a href="#">0127 10 00</a>	18	0.002
			8	<a href="#">0127 12 08</a>	18	0.002
		12	9	<a href="#">0127 12 09</a>	18	0.002
			10	<a href="#">0127 12 00</a>	18	0.001
			11	<a href="#">0127 14 11</a>	18	0.002
			12	<a href="#">0127 14 00</a>	18	0.002
		15	12	<a href="#">0127 15 12</a>	18	0.002
		16	13	<a href="#">0127 16 13</a>	18	0.003
		18	14	<a href="#">0127 18 14</a>	19.5	0.003
		20	15	<a href="#">0127 20 15</a>	20.5	0.003
22	16	<a href="#">0127 22 16</a>	21	0.004		
25	19	<a href="#">0127 25 19</a>	25	0.007		
This tube support guarantees good gripping, at high temperatures and pressures, by preventing collapsing of the tube.						

## CLIP Clip Strip for Tubing and Fittings

	Technical polymer 	<b>ØD</b>		<b>H</b>	<b>K</b>	<b>N</b>	<b>kg</b>
		4	<a href="#">CLIP 04 00</a>	9	13.5	10.5	0.007
		6	<a href="#">CLIP 06 00</a>	10.5	13	10.5	0.004
		8	<a href="#">CLIP 08 00</a>	12.5	10.5	12	0.007
		10	<a href="#">CLIP 10 00</a>	14	12	15	0.005
		12	<a href="#">CLIP 12 00</a>	16.5	14	16.5	0.009
		14	<a href="#">CLIP 14 00</a>	18	16	20.5	0.008
Delivered in boxes of 10 strips of the same diameter (complete with self-tapping screws of 95 mm length) These clips can be used with metric or inch tubing.							

## 0697 Clip for Braided Tubing

	Treated steel 	<b>ØD</b>		<b>H</b>	<b>K</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		6-11	<a href="#">0697 00 01</a>	7	5	12	7	0.004
		10-16	<a href="#">0697 00 02</a>	12	9	21	13	0.011
		12-22	<a href="#">0697 00 03</a>	12	9	21	13	0.015
		16-27	<a href="#">0697 00 04</a>	12	9	24	13	0.015
		20-32	<a href="#">0697 00 05</a>	12	9	24	13	0.016

# Chemical Compatibility Chart

Recommended	1	Not Recommended	3
Satisfactory	2	Not Available	-

Substances	PA	PU ether	PU ester	Low Density PE	APE	FEP/PFA
Acetaldehyde	1	1	3	3	2	1
Acetone	1	3	1	2	1	1
Acetylene	-	-	-	3	-	1
Acid, chromic up to 10%	2	3	3	3	-	1
Acid, citric	1	1	1	1	1	1
Acid, formic up to 10%	-	-	-	3	-	1
Acid, hydrochloric up to 10%	3	1	3	1	1	1
Acid, phosphoric up to 50%		3	3	1	1	1
Acid, sulphuric up to 10%	3	1	1	1	1	1
Acid, acetic	3	1	3	1	1	1
Acid, nitric	2	1	3	2	-	1
Ammonia and gaseous	-	1	3	2	1	1
Ammonium chloride up to 10%	-	1	1	1	1	1
Benzene	1	3	3	3	2	1
Bromine	3	-	-	2	3	1
Butane	-	1	1		1	1
Butyl acetate	1	3	2	2		1
Butylic and butyl alcohol	1	3	2	1	1	1
Calcium choride	1	-	-	2	1	1
Carbon tetrachloride (sodium hypochlorite)	2	2	2		3	1
Chloroform	3	3	3	2	2	1
Compressed air	-	1	1	1	1	1
Copper sulphate	-	-	-	-	-	1
Cyclohexanone	1	3	3	3		1
Ethanol	1	2	2			1
Ethyl acetate	1	2	2	1	1	1
Ethyl alcohol	1	-	-	2	1	1
Ethylene oxide	-	-	-	3	2	1
Formalin (formaldehyde)	1	1	2	1	1	1
Freon 12-22	2	2	2	-	-	1
Glucose	-	1	2	1	1	1
Glycol (methyl)	-	3	3	-	-	1
Glycol (without H <sub>2</sub> O)	-	1	1	1	1	1
Hexachloride	-	2	1	-	-	1
Hydrogen	1	1	2	-	1	1
Hydrogen peroxide (perydrol)	3	2	2	-	1	1
Kerosene	1	1	2	-	3	1
Magnesium chloride (up to 30%)	1	1	2	-	1	1
Methane	1	1	1	-	-	1
Methanol	2	1	1	-	-	1
Methyl acetate	-	2	2	-	-	1
Methyl alcohol (pure)	1	1	1	-	2	1

# Chemical Compatibility Chart

Substances	PA	PU ether	PU ester	LDPE	APE	FEP/PFA
Methyl bromide	2	-	-	-	-	1
Methyl chloride	2	-	-	-	-	1
Methyl ethyl ketone	1	3	3	-	-	1
Methyl isobutyl ketone	1	3	3	-	-	1
Oils (ASTM class A)	1	1	1	-	-	1
Oils (ASTM class B)	1	2	1	-	-	1
Oils (ASTM class C)	1	2	1	-	-	1
Oils (ASTM class 1)	1	1	1	-	-	1
Oils (ASTM class 2)	1	1	1	-	-	1
Oils (ASTM class 3)	1	1	1	-	-	1
Oils (cutting)	1	1	1	-	3	1
Oils (paraffin)	1	1	2	-	-	1
Oils, engine (diesel)	1	2	2	2	2	1
Oxygen	1	1	1	1	1	1
Ozone	3	2	2	-	3	1
Perchlorate ethylene	1	3	3	-	-	1
Petrol, with up to 40% aromatics	3	3	2	-	3	1
Petrol, with more than 40% aromatics	1	3	3	-	3	1
Phenols	1	3	3	-	-	1
Potash	1	2	3	-	-	1
Potassium chloride up to 40%	-	1	2	-	-	1
Potassium hydroxide	1	-	-	-	1	1
Potassium manganate 5%	1	3	2	-	1	1
Potassium sulphate	1	-	-	-	-	1
Propane	1	1	1	-	-	1
Soda 50%	1	1	3	-	1	1
Sodium carbonate	1	-	-	-	1	1
Sodium chloride	-	1	2	-	-	1
Sodium hydroxide (caustic soda)	-	1	2	-	1	1
Sodium hypochlorite (bleach)	1	1	3	-	-	1
Sulphurous anhydride	1	-	-	-	-	1
Tetrachloroethylene	1	2	2	-	-	1
Toluene	1	2	2	3	3	1
Tributylphosphate	1	-	-	-	-	1
Trichlorethylene	1	3	3	-	-	1
Water (distilled, deionised)	-	1	3	2	1	1
Water (drinking, food)	1	1	3	1	1	1
Water (industrial)	1	1	3	1	1	1
Water (sea)	2	1	3	1	1	1
Xylem	1	2	2	-	-	1
Zinc chloride	1	1	1	-	-	1

For other fluids, concentrations or special implementation, please contact us.

Function Fittings

**Flow Control Regulators**

**Piloted Function Fittings**

**Non-Return Valves**

LIQUIfit®

**Pressure Fittings**

**Other Function Fittings**

**Silencers**



# Function Fittings

## Flow Control Regulators

(P. 4-6)



**Function:** controls the speed of the cylinder rod

**Materials:** polymer, metal, stainless steel

**Pressure:** 10 bar

**Temperature:** 0°C to +70°C

**Ø metric:** 3 mm to 18 mm

**Threads:** BSPP, BSPT, metric

## Blocking Fittings

(P. 4-36)



**Function:** provides safety by locking the cylinder piston

**Materials:** nickel-plated brass, polymer

**Pressure:** 10 bar

**Temperature:** -20°C to +70°C

**Ø metric:** 6 mm to 12 mm

**Threads:** BSPP, BSPT

## Piloted Non-Return Valves

(P. 4-38)



**Function:** provides safety by locking the cylinder piston

**Materials:** nickel-plated brass, polymer

**Pressure:** 10 bar

**Temperature:** -5°C to +60°C

**Ø metric:** 6 mm to 12 mm

**Threads:** BSPP

## Non-Return Valves

(P. 4-40)



**Function:** allows air to pass in one direction only

**Materials:** polymer, nickel-plated brass

**Pressure:** 10 bar

**Temperature:** 0°C to +70°C

**Ø metric:** 4 mm to 12 mm

**Threads:** BSPP, BSPT, metric

## Adjustable Non-Return Valves

(P. 4-42)



**Function:** allows air to pass in one direction with an adjustable opening pressure

**Materials:** FDA chemical nickel-plated brass

**Pressure:** 12 bar

**Temperature:** -20°C to +80°C

**Threads:** BSPP, metric

## LIQUIfit® Non-Return Valves

(P. 4-44)



**Function:** allows fluid to pass in one direction only

**Materials:** polymer for food applications

**Pressure:** 10 bar

**Temperature:** 0°C to +65°C

**Ø inch:** 1/4" and 3/8"

## Stainless Steel Non-Return Valves

(P. 4-46)



**Function:** allows fluid to pass in one direction only

**Materials:** stainless steel

**Pressure:** 0.5 to 40 bar

**Temperature:** -20°C to +180°C

**DN :** 10 mm to 25 mm

**Threads:** BSPP, NPT

## Soft Start Fittings

(P. 4-48)



**Function:** protects the installation at start-up

**Materials:** polymer, nickel-plated brass

**Pressure:** 3 to 10 bar

**Temperature:** -15°C to +60°C

**Ø metric :** 8 mm to 12 mm

**Threads:** BSPP

## Pneumatic Sensor Fittings

(P. 4-50)



**Function:** pneumatic or electric output signal, detects end of cylinder rod stroke

**Materials:** polymer, treated metal

**Pressure:** 3 to 8 bar

**Temperature:** -15°C to +60°C

**Ø metric:** 4 mm

**Threads:** BSPP, metric

# Function Fittings

## Pressure Regulators/Pressure Reducers (P. 4-52)



**Function:** limits the maximum pressure delivered to pneumatic equipment

**Materials:** polymer, treated metal

**Pressure:** 16 bar (upstream), 8 bar (downstream)

**Temperature:** -15°C to +70°C

**Ø metric:** 4 mm to 10 mm

**Threads:** BSPP

## Snap Connectors (P. 4-56)



**Function:** isolates a circuit without venting the whole system

**Materials:** polymer, nickel-plated brass

**Pressure:** 10 bar

**Temperature:** -20°C to +80°C

**DN** : 5 mm to 7 mm

**Threads:** BSPP

## Manually-Operated Valves (P. 4-58)



**Function:** opens/closes a circuit, with or without venting

**Materials:** polymer, nickel-plated brass, aluminium

**Pressure:** 16 bar, 10 bar

**Temperature:** -10°C to +80°C

**Ø metric:** 4 mm to 10 mm

**Threads:** BSPP, metric

## Metal Quick Exhaust Valves (P. 4-60)



**Function:** increases the return speed of the cylinder

**Materials:** nickel-plated brass, aluminium, stainless steel

**Pressure:** 10 bar

**Temperature:** -20°C to +70°C

**Threads:** BSPP, BSPT, metric

## Silencers (P. 4-62)



**Function:** reduces noise levels

**Materials:** sintered bronze, polyethylene, stainless steel, nickel-plated brass

**Pressure:** 12 bar

**Temperature:** -20°C to +180°C

**Ø metric:** 4 mm to 12 mm

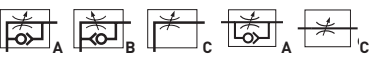



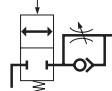
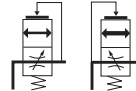





**Threads:** BSPP, metric, NPT

# Selecting Your Function Fitting

<b>Protect Your System</b>	<b>Blocking Fittings</b>	Maintain the load following an emergency stop of a pneumatic system.	Models <b>7880 - 7881 - 7883 - 7885 7886</b>
	<b>Soft Start Fittings</b>	Increase the pressure gradually in order to protect it from potentially damaging shock when a pneumatic system is restarted.	Models <b>7860 - 7861 - 7870 - 7871</b>
	<b>Non-Return Valves</b>	Allow compressed air to flow in one direction, and prevent it from flowing in the other. If the supply is accidentally shut off, the air can only escape in one direction.	Models <b>4890 - 4891 - 4892 - 4895 7930 - 7931 - 7932 - 7984 7985 - 7992 - 7994 - 7995 7996</b>
	<b>Piloted Non-Return Valves</b>	Incorporate 3 functions into one product to protect your system: piloted non-return valve, flow control regulator and manual vent.	Models <b>7892 - 7894</b>
<b>Detect End of Cylinder Rod Stroke</b>	<b>Pneumatic Sensor Fittings</b>	Detect the back pressure drop at the end of stroke to produce a signal (pneumatic or electronic) to allow reciprocation.	Models <b>7818 - 7828</b>
<b>Control and Improve the Performance of Your System</b>	<b>Pressure Regulators</b>	Regulate and stabilise the pressure at a maximum determined value whatever the upstream pressure.	Models <b>7300</b>
	<b>Pressure Reducer Fittings</b>	Reduce the pressure consumed in one section of the machine in order to save energy.	Models <b>7316 - 7318 - 7416 - 7471</b>
	<b>Quick Exhaust Valves</b>	Increase the return speed of the cylinder by discharging the exhaust directly to atmosphere.	Models <b>7899 - 7970 - 7971</b>
	<b>Silencers</b>	Reduce the noise levels whilst air is vented from a compressed air system.	Models <b>0670 - 0671 - 0672 - 0673 0674 - 0675 - 0676 - 0677</b>
<b>Working on Your System</b>	<b>Snap Fittings</b>	Allow a circuit to be isolated without fully venting the system.	Models <b>7921 - 7926 - 7960 - 7961</b>
	<b>Manually-Operated Valves</b>	Allow for repeated venting by simply moving the valve sleeve or the manually-operated valve lever.	Models <b>0669 - 7800 - 7801 - 7802</b>



# Symbols for Function Fittings

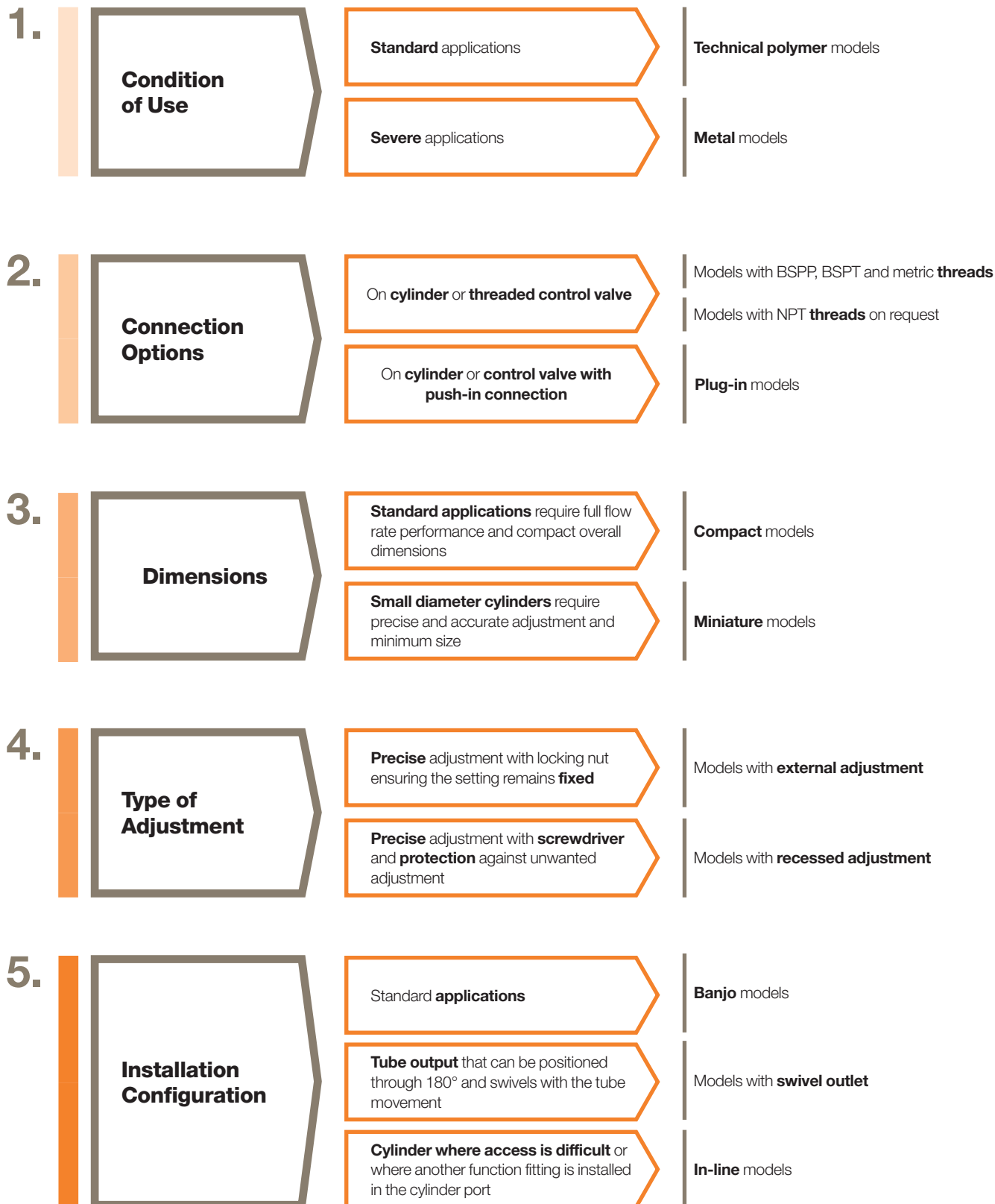
<p><b>Regulating</b> air flow</p> 	<p><b>Regulating</b> pressure by stabilising at a required value</p> 
<p><b>Blocking</b> air circulation</p> 	<p><b>Reducing</b> pressure supply</p> 
<p><b>Blocking</b> and <b>regulating</b> air flow</p> 	<p><b>Progressive</b> pressurising of circuits</p> 
<p><b>Controlling</b> allows the passage of fluid in one direction and prevents it in the other</p> 	<p><b>Isolating a circuit</b> without venting the entire system</p> 
<p><b>Exhausting system</b> and <b>controlling</b> pneumatic circuit supply</p> 	<p><b>Regulating, blocking and venting</b> to protect the system and individuals</p> 
<p><b>Detecting</b> pressure drop</p> 	

# Selecting Your Flow Control Regulator

The comprehensive range of Parker Legris flow control regulators provides a solution for all flow regulation functions in a pneumatic system.

Select the model suited to your application according to:

## 5 Key Requirements



# Flow Control Regulator Range

## Technical Polymer Version, BSPP and Metric

### Recessed Adjustment

**7010**  
**7011**  
**7012**  
Push-In  
Page 4-10



### External Adjustment

**7060**  
**7061**  
**7062**  
Compact  
Push-In  
Page 4-11/12



**7660**  
**7662**  
**7669**  
Miniature  
Push-In  
Page 4-13/14



### Swivel Outlet

**7040**  
**7041**  
Compact  
Push-In  
Page 4-14



**7640**  
**7649**  
Miniature  
Push-In  
Page 4-15



### In-Line

**7770**  
**7772**  
Push-In  
Page 4-16



**7776**  
Bulkhead  
Push-In  
Page 4-16



**7771**  
Threaded  
Page 4-16



**7020**  
Straight  
Push-In  
Page 4-17



**7000**  
Page 4-16



### Plug-In

**7030**  
**7031**  
Compact  
Push-In  
Page 4-18



**7630**  
**7631**  
Miniature  
Push-In  
Page 4-18



## Technical Polymer Version, BSPT

### External Adjustment

**7065**  
**7066**  
**7067**  
Compact  
Push-In  
Page 4-11/12



**7665**  
**7668**  
Miniature  
Push-In  
Page 4-13



### Swivel Outlet and External Adjustment

**7045**  
Compact  
Push-In  
Page 4-14



**7645**  
Miniature  
Push-In  
Page 4-15



## Brass, Nickel-Plated Brass and Aluminium Versions, BSPP and Metric

### Recessed Adjustment

**7130**  
Push-In  
Page 4-19



**7140**  
Threaded  
Page 4-19



**7160**  
Compression  
Page 4-19



### In-Line

**7170**  
Bulkhead  
Threaded  
Page 4-21



### External Adjustment

**7762**  
Threaded  
Page 4-21



**7100**  
**7101**  
Compact  
Push-In  
Page 4-20



**7680**  
Compact  
Push-In  
Page 4-20



**7180**  
Miniature  
Push-In  
Page 4-20



**7110**  
**7111**  
Compact  
Threaded  
Page 4-20/21



**7190**  
Miniature  
Threaded  
Page 4-21



## Stainless Steel Versions

**7810**  
**7812**  
Threaded  
Page 4-23



**7820**  
**7822**  
Threaded  
Page 4-23



# Flow Control Regulators

Parker Legris flow control regulators with polymer, nickel-plated brass or aluminium bodies, external or recessed adjustment screws, offer **precise adjustment, accuracy** and **compactness** providing the solution for all applications.

## Product Advantages

### Improved Productivity

- Higher maximum flow than standard regulators
- Full flow with minimum pressure drop (model 7060)
- Optimal control of the cylinder rod speed
- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Reduce compressed air and energy consumption

### Accuracy & Performance

- Precise adjustment for accurate flow regulation from initial to maximum opening
- Constant cylinder rod displacement speed
- Long-term stability of flow
- Reduced weight (polymer version)
- Mechanical strength and corrosion resistance with nickel-plated brass version

### Ergonomics & Large Range

- External adjustment screw: easy to adjust without tooling and lockable
- Recessed adjustment screw: more compact and protects the adjustment mechanism
- Uni-directional: exhaust or inlet
- Bi-directional: adjustment of air flow in both directions
- 360° positioning
- NPT version on request



**Applications**

- Pneumatics
- Robotics
- Semi-Conductors
- Textile
- Automotive Process
- Packaging

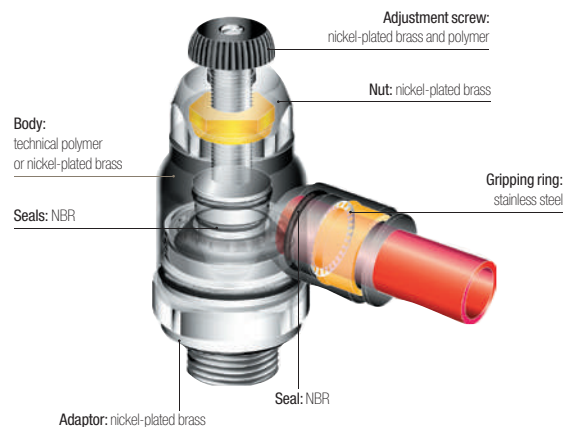
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: contact us
<b>Working Pressure</b>	1 to 10 bar
<b>Working Temperature</b>	0°C to +70°C

<b>Max. Tightening Torques (external adjustment screw)</b>	Threads	M3 x0.5	M5 x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.06	0.16	0.8	1.2	3	3.5
<b>Max. Tightening Torques (recessed adjustment screw)</b>	Threads	–	M5 x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	–	0.1	0.4	0.5	0.6	0.7

You will find all the flow rate characteristic curves (to 6 bar) for flow control regulators at the end of the chapter.

### Component Materials



**Silicone-free**

# Flow Control Regulators

## Operation

Parker Legris offers both uni-directional and bi-directional flow control regulators.

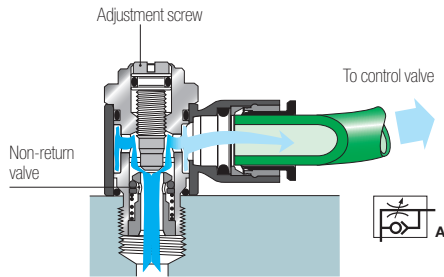
The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction.

The bi-directional models control the flow of air in both directions.

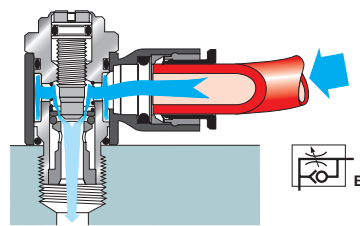
A more precise and constant flow regulation is obtained when the regulator is fitted directly onto the cylinder.

### Models with Recessed Adjustment

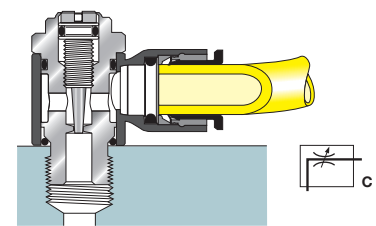
#### Uni-Directional (Exhaust Version)



#### Uni-Directional (Supply Version)

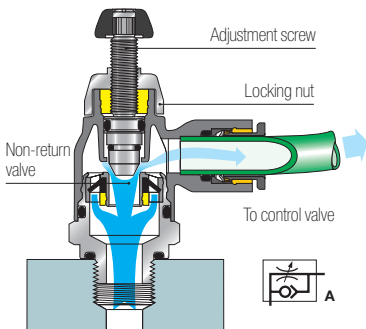


#### Bi-Directional Version

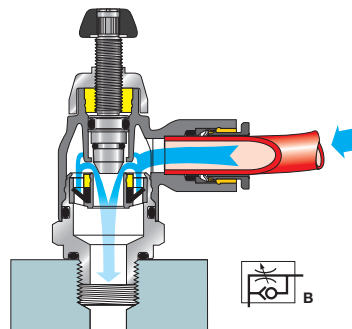


### Models with External Adjustment

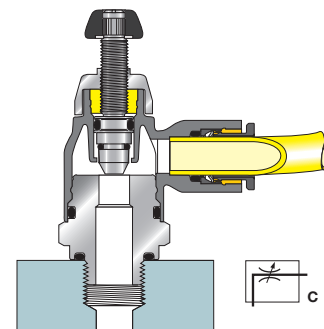
#### Uni-Directional (Exhaust Version)



#### Uni-Directional (Supply Version)

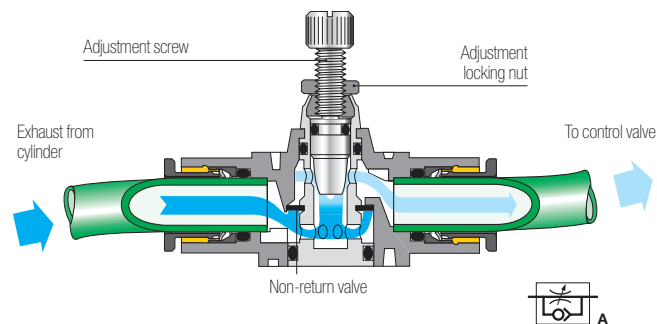


#### Bi-Directional Version

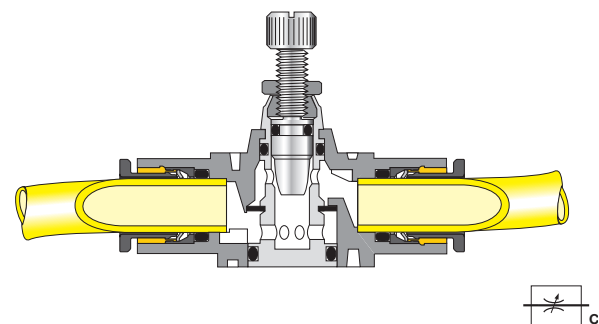


### In-Line Models

#### Uni-Directional Version



#### Bi-Directional Version



For instant visual identification, each Parker Legris flow control regulator version is identified by the related pneumatic symbol and by a letter:

- uni-directional regulation on exhaust: letter A
- uni-directional regulation on supply: letter B
- bi-directional regulation: letter C

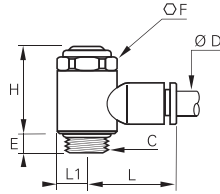
# Regulators with Recessed Adjustment

## 7010

### Flow Regulator with Recessed Adjustment Screw Exhaust, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



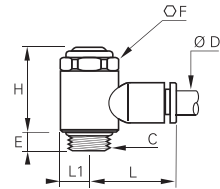
ØD	C		E	F	H	L	L1	kg
4	M5x0.8	<a href="#">7010 04 19</a>	4	8	17.5	17	5	0.006
	G1/8	<a href="#">7010 04 10</a>	5	13	25	19	7	0.018
6	M5x0.8	<a href="#">7010 06 19</a>	4	8	17.5	19	5	0.006
	G1/8	<a href="#">7010 06 10</a>	5	13	25	21	7	0.018
8	G1/4	<a href="#">7010 08 13</a>	8	17	26.5	22	9.5	0.034
	G1/8	<a href="#">7010 08 10</a>	5	13	25	26	7	0.019
10	G1/4	<a href="#">7010 10 13</a>	8	17	26.5	27	9.5	0.035
	G3/8	<a href="#">7010 08 17</a>	7.5	20	37.5	29	11	0.068
12	G1/4	<a href="#">7010 10 13</a>	8	17	26.5	29	9.5	0.035
	G3/8	<a href="#">7010 10 17</a>	7.5	20	37.5	31	11	0.067
12	G1/2	<a href="#">7010 12 21</a>	8	23	43	37	13.5	0.118
	G3/8	<a href="#">7010 12 17</a>	7.5	20	37.5	34.5	11	0.069
12	G1/2	<a href="#">7010 12 21</a>	8	23	43	37	13.5	0.108

## 7011

### Flow Regulator with Recessed Adjustment Screw Supply, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



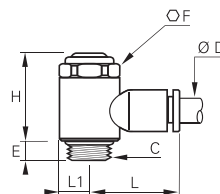
ØD	C		E	F	H	L	L1	kg
4	M5x0.8	<a href="#">7011 04 19</a>	4	8	17.5	17	5	0.006
	G1/8	<a href="#">7011 04 10</a>	5	13	25	19	7	0.018
6	M5x0.8	<a href="#">7011 06 19</a>	4	8	17.5	19	5	0.006
	G1/8	<a href="#">7011 06 10</a>	5	13	25	21	7	0.018
8	G1/4	<a href="#">7011 08 13</a>	8	17	26.5	22	9.5	0.034
	G1/8	<a href="#">7011 08 10</a>	5	13	25	26	7	0.019
10	G1/4	<a href="#">7011 10 13</a>	8	17	26.5	27	9.5	0.034
	G3/8	<a href="#">7011 08 17</a>	7.5	20	37.5	29	11	0.067
10	G1/4	<a href="#">7011 10 13</a>	8	17	26.5	29	9.5	0.036
	G3/8	<a href="#">7011 10 17</a>	7.5	20	37.5	31	11	0.068

## 7012

### Bi-Directional Flow Regulator with Recessed Adjustment Screw, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR

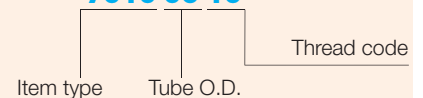


ØD	C		E	F	H	L	L1	kg
4	M5x0.8	<a href="#">7012 04 19</a>	4	8	17.5	17	5	0.006
	G1/8	<a href="#">7012 04 10</a>	5	13	25	19	7	0.018
6	M5x0.8	<a href="#">7012 06 19</a>	4	8	17.5	19	5	0.007
	G1/8	<a href="#">7012 06 10</a>	5	13	25	21	7	0.019
8	G1/4	<a href="#">7012 08 13</a>	8	17	26.5	22	9.5	0.036
	G1/8	<a href="#">7012 08 10</a>	5	13	25	26	7	0.020
8	G1/4	<a href="#">7012 08 13</a>	8	17	26.5	27	9.5	0.036
	G3/8	<a href="#">7012 08 17</a>	7.5	20	37.5	29	11	0.070

Each pneumatic function fitting is identified by:

- the item type
- the tube outside diameter
- the thread or 2<sup>nd</sup> tube outside diameter

**7010 06 10**

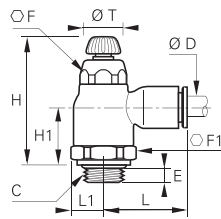


# Compact Regulators with External Adjustment

## 7060 Compact Flow Regulator Exhaust, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR

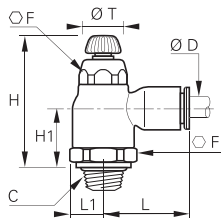


ØD	C		E	F	F1	H	H <sub>max</sub>	H1	L	L1	ØT	kg
4	G1/8	<a href="#">7060 04 10</a>	5	10	16	38	44	16	22	9	10	0.020
	G1/8	<a href="#">7060 06 10</a>	5	10	16	38	44	16	22	9	10	0.020
6	G1/4	<a href="#">7060 06 13</a>	5.5	10	16	36.5	42.5	15	22	9	10	0.020
	G1/8	<a href="#">7060 08 10</a>	4.5	14	19	41.5	48	18	28	10.5	14	0.033
8	G1/4	<a href="#">7060 08 13</a>	5.5	14	19	41.5	48	18.5	28	10.5	14	0.034
	G3/8	<a href="#">7060 08 17</a>	5.5	14	19	41.5	48	17	28	11	14	0.034
10	G1/4	<a href="#">7060 10 13</a>	5.5	17	23	45.5	53.5	20	31.5	12.5	17	0.053
	G3/8	<a href="#">7060 10 17</a>	5.5	17	23	45.5	54	20	31.5	12.5	17	0.054
12	G3/8	<a href="#">7060 12 17</a>	5.5	17	23	45.5	54	20	35	12.5	17	0.060
	G1/2	<a href="#">7060 12 21</a>	7.5	17	24	45.5	54	20	35	13	17	0.058

## 7065 Compact Flow Regulator Exhaust, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



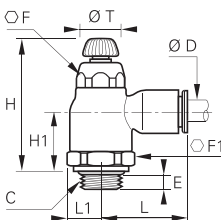
ØD	C		F	F1	H <sub>min</sub>	H <sub>max</sub>	H1	L	L1	ØT	kg
6	R1/8	<a href="#">7065 06 10</a>	10	16	36.5	42.5	15	22	8	10	0.021
	R1/8	<a href="#">7065 08 10</a>	14	19	40	45	16.5	28	10.5	14	0.034
8	R1/4	<a href="#">7065 08 13</a>	14	19	40	45	16.5	28	10.5	14	0.036
	R1/4	<a href="#">7065 10 13</a>	17	23	43.5	51.5	18	31.5	12.5	17	0.053
10	R3/8	<a href="#">7065 10 17</a>	17	23	43.5	51.5	18	31.5	12.5	17	0.055
	R1/2	<a href="#">7065 10 21</a>	17	23	43.5	51.5	18	31.5	12.5	17	0.059
12	R1/4	<a href="#">7065 12 13</a>	17	23	43.5	51.5	18	35	12.5	17	0.056
	R3/8	<a href="#">7065 12 17</a>	17	23	43.5	51.5	18	35	12.5	17	0.059
	R1/2	<a href="#">7065 12 21</a>	17	23	43.5	51.5	18	35	12.5	17	0.064

Pre-coated thread

## 7061 Compact Flow Regulator Supply, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR

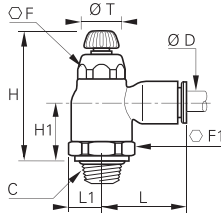


ØD	C		E	F	F1	H	H <sub>max</sub>	H1	L	L1	ØT	kg
4	G1/8	<a href="#">7061 04 10</a>	5	10	16	38	44	16	22	9	10	0.020
	G1/8	<a href="#">7061 06 10</a>	5	10	16	38	44	16	22	9	10	0.020
6	G1/4	<a href="#">7061 06 13</a>	5.5	10	16	36.5	42.5	15	22	9	10	0.021
	G1/8	<a href="#">7061 08 10</a>	4.5	14	19	41.5	48	18	28	10.5	14	0.033
8	G1/4	<a href="#">7061 08 13</a>	5.5	14	19	41.5	48	18.5	28	10.5	14	0.034
	G3/8	<a href="#">7061 08 17</a>	5.5	14	23	41.5	48	17	28	11	14	0.033
10	G1/4	<a href="#">7061 10 13</a>	5.5	17	23	45.5	53.5	20	31.5	12.5	17	0.053
	G3/8	<a href="#">7061 10 17</a>	5.5	17	23	45.5	54	20	31.5	12.5	17	0.054
12	G1/2	<a href="#">7061 12 21</a>	7.5	17	24	45.5	54	20	35	13	17	0.060

## 7066 Compact Flow Regulator Supply, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	H <sub>min</sub>	H <sub>max</sub>	H1	L	L1	ØT	kg
	R1/4	<a href="#">7066 10 13</a>	17	23	43.5	51.5	18	31.5	12.5	17	0.020
10	R3/8	<a href="#">7066 10 17</a>	17	23	43.5	51.5	18	31.5	12.5	17	0.020
	R1/2	<a href="#">7066 10 21</a>	17	23	43.5	51.5	18	31.5	12.5	17	0.059
12	R1/4	<a href="#">7066 12 13</a>	17	23	43.5	51.5	18	35	12.5	17	0.056
	R3/8	<a href="#">7066 12 17</a>	17	23	43.5	51.5	18	35	12.5	17	0.059
	R1/2	<a href="#">7066 12 21</a>	17	23	43.5	51.5	18	35	12.5	17	0.064

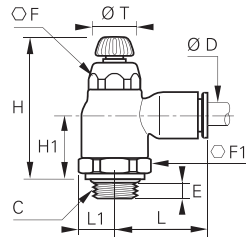
Pre-coated thread

# Compact Regulators with External Adjustment

## 7062 Bi-Directional Compact Flow Regulator, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR

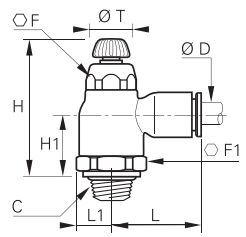


ØD	C		E	F	F1	H	H <sub>max</sub>	H1	L	L1	ØT	kg
4	G1/8	<a href="#">7062 04 10</a>	5	10	16	38	44	16	22	9	10	0.025
6	G1/8	<a href="#">7062 06 10</a>	5	10	16	38	44	16	22	9	10	0.025
6	G1/4	<a href="#">7062 06 13</a>	5.5	10	16	36.5	42.5	15	22	9	10	0.025
6	G1/8	<a href="#">7062 08 10</a>	4.5	14	19	41.5	48	18	28	10.5	14	0.043
8	G1/4	<a href="#">7062 08 13</a>	5.5	14	19	41.5	48	18.5	28	10.5	14	0.046
8	G3/8	<a href="#">7062 08 17</a>	5.5	14	19	41.5	48	17	28	11	14	0.042

## 7067 Bi-Directional Compact Flow Regulator, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	H <sub>min</sub>	H <sub>max</sub>	H1	L	L1	ØT	kg
4	R1/8	<a href="#">7067 04 10</a>	10	16	36.5	42.5	14.7	22	9	10	0.025
6	R1/8	<a href="#">7067 06 10</a>	10	16	36.5	42.5	14.7	22	9	10	0.010
6	R1/4	<a href="#">7067 06 13</a>	10	16	36.5	42.5	14.7	22	9	10	0.014
6	R1/8	<a href="#">7067 08 10</a>	14	19	40	45	16.5	28	10.5	14	0.034
8	R1/4	<a href="#">7067 08 13</a>	14	19	40	45	16.5	28	10.5	14	0.036
8	R3/8	<a href="#">7067 08 17</a>	14	19	40	45	16.5	28	11	14	0.042

Pre-coated thread



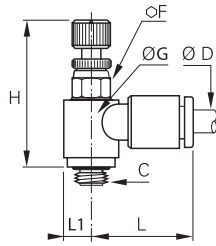
# Miniature Regulators with External Adjustment

**7660**

Miniature Flow Regulator Exhaust, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



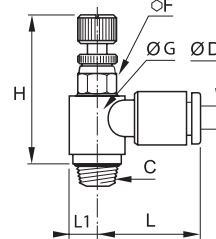
ØD	C		F	G	H min	H max	L	L1	kg
3	M3x0.5	<a href="#">7660 03 09</a>	6	9	23.5	26	17	4.5	0.007
	M5x0.8	<a href="#">7660 03 19</a>	6	9	23.5	26	17	4.5	0.006
4	M3x0.5	<a href="#">7660 04 09</a>	6	9	23.5	26	16.5	4.5	0.007
	M5x0.8	<a href="#">7660 04 19</a>	6	9	23.5	26	17	4.5	0.006
6	G1/8	<a href="#">7660 06 10</a>	7	11.5	27	29.5	18	6	0.012
	M5x0.8	<a href="#">7660 06 19</a>	6	9	23.5	26	18	4.5	0.007
8	G1/4	<a href="#">7660 08 13</a>	8	12	30	32.5	19	6	0.019
	G1/8	<a href="#">7660 08 10</a>	13	14	26.5	31	26	7	0.021
	G3/8	<a href="#">7660 08 17</a>	16	19	29	34	27.5	9.5	0.033

**7665**

Miniature Flow Regulator Exhaust, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
4	R1/8	<a href="#">7665 04 10</a>	7	11.5	25	27.5	18	6	0.012
	R1/8	<a href="#">7665 06 10</a>	7	11.5	25	27.5	18.5	6	0.012
6	R1/4	<a href="#">7665 06 13</a>	8	13.5	27.5	30	19	7	0.019
	R3/8	<a href="#">7665 06 17</a>	17	13.5	31.5	34	19	7	0.025
8	R1/8	<a href="#">7665 08 10</a>	13	14	24	28.5	26	7	0.021
	R3/8	<a href="#">7665 08 17</a>	16	19	25	29	27.5	9.5	0.033

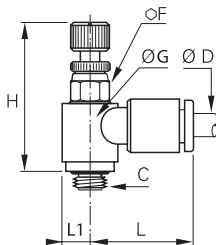
Pre-coated thread

**7669**

Miniature Flow Regulator Supply, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



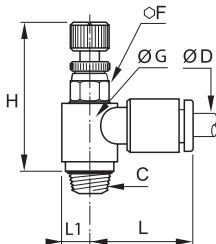
ØD	C		F	G	H min	H max	L	L1	kg
3	M3x0.5	<a href="#">7669 03 09</a>	6	9	23.5	26	17	4.5	0.008
	M5x0.8	<a href="#">7669 03 19</a>	6	9	23.5	26	17	4.5	0.007
4	M5x0.8	<a href="#">7669 04 19</a>	6	9	23.5	26	17	4.5	0.006
	G1/8	<a href="#">7669 04 10</a>	7	11.5	27	29.5	18	6	0.012
6	M5x0.8	<a href="#">7669 06 19</a>	6	9	23.5	26	18	4.5	0.007
	G1/8	<a href="#">7669 06 10</a>	7	11.5	27	29.5	18.5	6	0.013
	G1/4	<a href="#">7669 06 13</a>	8	12	30	32.5	19	6	0.019
8	G1/8	<a href="#">7669 08 10</a>	13	14	26.5	31	26	7	0.021
	G1/4	<a href="#">7669 08 13</a>	16	19	29	34	27.5	9.5	0.033
	G3/8	<a href="#">7669 08 17</a>	20	23	36	42	29	11.5	0.063

**7668**

Miniature Flow Regulator Supply, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
4	R1/8	<a href="#">7668 04 10</a>	7	11.5	25	27.5	18	6	0.011
	R1/8	<a href="#">7668 06 10</a>	7	11.5	25	27.5	18.5	6	0.012
6	R1/4	<a href="#">7668 06 13</a>	8	13.5	27.5	30	19	7	0.019
	R1/8	<a href="#">7668 08 10</a>	13	14	24	28.5	26	7	0.020
8	R1/4	<a href="#">7668 08 13</a>	16	19	25	29	27.5	9.5	0.032
	R3/8	<a href="#">7668 08 17</a>	20	23	30	36	29	11.5	0.061

Pre-coated thread

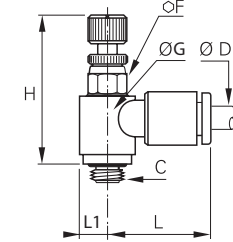
# Regulators with External Adjustment

**7662**

**Bi-Directional Miniature Flow Regulator, Male BSPP and Metric Thread**



Technical polymer, nickel-plated brass, NBR



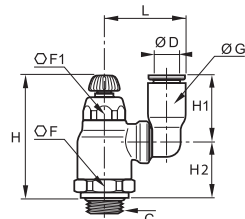
ØD	C		F	G	H <sub>min</sub>	H <sub>max</sub>	L	L1	kg
4	M5x0.8	<a href="#">7662 04 19</a>	6	9	23.5	26	17	4.5	0.007
	G1/8	<a href="#">7662 04 10</a>	7	11.5	27	29.5	18	6	0.013
6	M5x0.8	<a href="#">7662 06 19</a>	6	9	23.5	26	18	4.5	0.010
	G1/8	<a href="#">7662 06 10</a>	7	11.5	27	29.5	18.5	6	0.013
	G1/4	<a href="#">7662 06 13</a>	8	12	30	32.5	19	6	0.019

**7040**

**Compact Flow Regulator Swivel Outlet Exhaust, Male BSPP Thread**



Technical polymer, nickel-plated brass, NBR



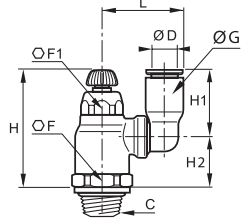
ØD	C		F	F1	G	H <sub>min</sub>	H <sub>max</sub>	H1	H2	L	kg
6	G1/8	<a href="#">7040 06 10</a>	16	10	10.5	38	44	16	18	23.5	0.024
	G1/4	<a href="#">7040 06 13</a>	16	10	10.5	36.5	42.5	16	16.5	23.5	0.025
8	G1/8	<a href="#">7040 08 10</a>	19	14	13.5	41.5	48	23	19	28	0.037
	G1/4	<a href="#">7040 08 13</a>	19	14	13.5	41.5	48	23	19.5	28	0.039
10	G3/8	<a href="#">7040 08 17</a>	19	14	13.5	41.5	48	23	17.5	28	0.020
	G1/4	<a href="#">7040 10 13</a>	23	17	16	45.5	53.5	26.5	21	35	0.051
12	G3/8	<a href="#">7040 10 17</a>	23	17	16	45.5	54	26.5	21.5	35	0.063
	G1/2	<a href="#">7040 12 21</a>	23	17	19	45.5	54	30.5	21.5	38	0.066
	G1/2	<a href="#">7040 12 21</a>	24	17	19	45.5	54	30.5	21	38	0.071

**7045**

**Compact Flow Regulator Swivel Outlet Exhaust, Male BSPT Thread**



Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	G	H <sub>min</sub>	H <sub>max</sub>	H1	H2	L	kg
6	R1/4	<a href="#">7045 06 13</a>	16	10	10.5	36.5	42.5	16	16.5	23.5	0.030
	R1/8	<a href="#">7045 08 10</a>	19	14	13.5	40	46	23	17	28	0.014
8	R1/4	<a href="#">7045 08 13</a>	19	14	13.5	40	46	23	17	28	0.043
	R3/8	<a href="#">7045 08 17</a>	19	14	13.5	40	46	23	17	28	0.044
10	R1/4	<a href="#">7045 10 13</a>	23	17	16	43.5	51.5	26.5	19	35	0.062
	R3/8	<a href="#">7045 10 17</a>	23	17	16	43.5	51.5	26.5	19	35	0.065
12	R3/8	<a href="#">7045 12 17</a>	23	17	19	43.5	51.5	31	19	38	0.065
	R1/2	<a href="#">7045 12 21</a>	23	17	19	43.5	51.5	31	19	38	0.070

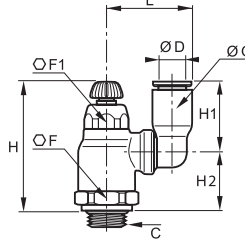
Pre-coated thread

**7041**

**Compact Flow Regulator Swivel Outlet Supply, Male BSPP Thread**



Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	G	H <sub>min</sub>	H <sub>max</sub>	H1	H2	L	kg
6	G1/4	<a href="#">7041 06 13</a>	16	10	10.5	36.5	42.5	16	16.5	23.5	0.024
8	G1/8	<a href="#">7041 08 10</a>	19	14	13.5	41.5	48	23	19	28	0.037
	G1/4	<a href="#">7041 08 13</a>	19	14	13.5	41.5	48	23	19.5	28	0.039

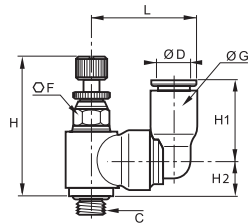
# Miniature Regulators with Swivel Outlet and External Adjustment

**7640**

Miniature Swivel Outlet Flow Regulator Exhaust, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



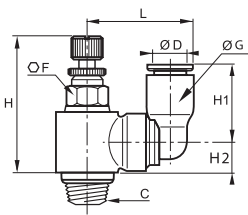
ØD	C		F	G	H <sub>min</sub>	H <sub>max</sub>	H1	H2	L	kg
4	M5x0.8	<a href="#">7640 04 19</a>	6	8.5	23.5	26	14	6.5	19.5	0.011
	G1/8	<a href="#">7640 04 10</a>	7	8.5	27	29.5	14	8	19.5	0.015
6	M5x0.8	<a href="#">7640 06 19</a>	6	10.5	23.5	26	16	6.5	21	0.001
	G1/8	<a href="#">7640 06 10</a>	7	10.5	27	29.5	16	8	20.5	0.015

**7645**

Miniature Swivel Outlet Flow Regulator Exhaust, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H <sub>min</sub>	H <sub>max</sub>	H1	H2	J	L	kg
4	R1/8	<a href="#">7645 04 10</a>	7	8.5	25	27.5	14	6	11.5	19.5	0.014
6	R1/8	<a href="#">7645 06 10</a>	7	10.5	25	27.5	16	6	11.5	21.5	0.012

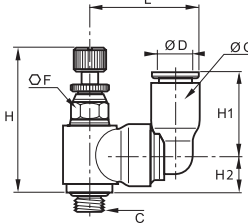
Pre-coated thread

**7649**

Miniature Swivel Outlet Flow Regulator Supply, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H <sub>min</sub>	H <sub>max</sub>	H1	H2	L	kg
4	M5x0.8	<a href="#">7649 04 19</a>	6	8.5	23.5	26	14	6.5	19	0.015
	G1/8	<a href="#">7649 04 10</a>	7	8.5	27	29.5	14	8.5	19.5	0.014
6	M5x0.8	<a href="#">7649 06 19</a>	6	10.5	23.5	26	16	6.5	21	0.008
	G1/8	<a href="#">7649 06 10</a>	7	10.5	27	29.5	16	8.5	21.5	0.015

## Associated Products

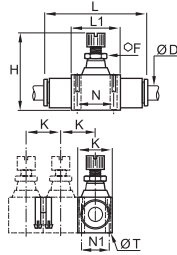
All our flow control regulators are compatible with the range of polyamide and polyurethane tubing shown in Chapter 3.

# In-Line Regulators with External Adjustment

## 7770 In-Line One-Way Flow Regulator



Technical polymer, NBR

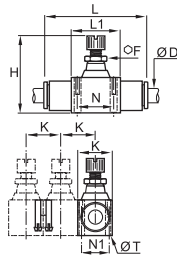


ØD		F	H <sub>min</sub>	H <sub>max</sub>	K	L	L1	N	N1	ØT	kg
4	<a href="#">7770 04 00</a>	5	29.5	33.5	12	36	15	11	8	2.2	0.010
6	<a href="#">7770 06 00</a>	8	40.5	44.5	17	51	23	17	11	3.2	0.028
8	<a href="#">7770 08 00</a>	11	46.5	52.5	18.5	58	26	20	12.5	3.2	0.048
10	<a href="#">7770 10 00</a>	14	53	61	24	73	33	26	16	4.2	0.097
12	<a href="#">7770 12 00</a>	14	59	67.5	28	85	35	27.5	20	4.2	0.132

## 7772 Bi-Directional In-Line Flow Regulator

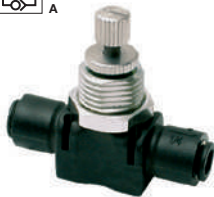


Technical polymer, NBR

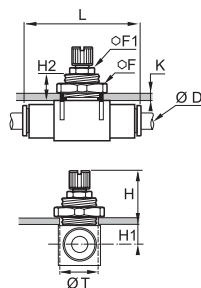


ØD		F	H <sub>min</sub>	H <sub>max</sub>	K	L	L1	N	N1	ØT	kg
4	<a href="#">7772 04 00</a>	5	29.5	33.5	12	36	15	11	8	2.2	0.011
6	<a href="#">7772 06 00</a>	8	40	44.5	17	51	23	17	11	3.2	0.032
8	<a href="#">7772 08 00</a>	11	46.5	52.5	18.5	58	26	20	12.5	3.2	0.054

## 7776 Panel-Mountable In-Line One-Way Flow Regulator



Technical polymer, NBR



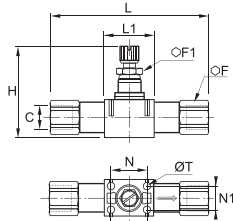
ØD		F	F1	H	H <sub>max</sub>	H1	H2	K	L	ØT	kg
4	<a href="#">7776 04 00*</a>	14	-	21.5	25.5	6.5	11	6	36	10.5	0.017
6	<a href="#">7776 06 00*</a>	19	-	27.5	32.5	7.5	13.5	7	51	16.5	0.042
8	<a href="#">7776 08 00</a>	24	11	28.5	34.5	9	13.5	7	58	18.5	0.069
10	<a href="#">7776 10 00</a>	30	14	29.5	38.5	11.5	13.5	7	73	24.5	0.136
12	<a href="#">7776 12 00</a>	32	14	32	42	12.5	15.5	8	85	27.5	0.185

\*Ultrafine adjustment

## 7771 In-Line One-Way Flow Regulator, Female BSPP Thread



Technical polymer, nickel-plated brass, NBR



C		F	F1	H <sub>min</sub>	H <sub>max</sub>	L	L1	N	N1	ØT	kg
G1/8	<a href="#">7771 10 10</a>	13	8	39.5	44.5	68.5	23	17	11	3.2	0.043
G1/4	<a href="#">7771 13 13</a>	16	11	44	50	83	26	20	12.5	3.2	0.103
G3/8	<a href="#">7771 17 17</a>	19	14	52	61	97	33	26	16	4.2	0.160
G1/2	<a href="#">7771 21 21</a>	24	14	57.5	67.5	121	35	27.5	20	4.2	0.260

## 7000 Joining Clips



Technical polymer



ØD		kg
4	<a href="#">7000 00 05</a>	0,004
6	<a href="#">7000 00 05</a>	0,004
8	<a href="#">7000 00 05</a>	0,004
10	<a href="#">7000 00 06</a>	0,009
12	<a href="#">7000 00 06</a>	0,009

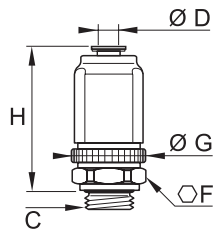
# In-Line Regulators with External Adjustment


**7020**

Straight Flow Regulator Exhaust, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



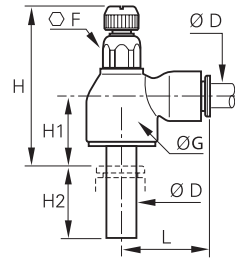
ØD	C		F	G	H min	H max	kg
4	G1/8	<a href="#">7020 04 10</a>	18	21.5	38.5	44	0.062
6	G1/8	<a href="#">7020 06 10</a>	18	21.5	38.5	44	0.058
	G1/4	<a href="#">7020 06 13</a>	18	21.5	38.5	44	0.059
8	G1/8	<a href="#">7020 08 10</a>	24	27	46.5	52.5	0.110
	G1/4	<a href="#">7020 08 13</a>	24	27	46.5	52.5	0.112

# Plug-In Regulators with External Adjustment

## 7030 Compact Plug-In Flow Regulator, Exhaust



Technical polymer, nickel-plated brass, NBR

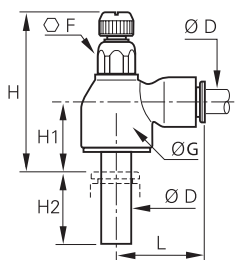


ØD		F	G	H min	H max	H1	H2	L	kg
6	<a href="#">7030 06 00</a>	10	16	35	41	14	17	22	0.013
8	<a href="#">7030 08 00</a>	14	19	39.5	46.5	16	21.5	28	0.022
10	<a href="#">7030 10 00</a>	17	23	43.5	51.5	17.5	24.5	31.5	0.030
12	<a href="#">7030 12 00</a>	17	23	43	51	17	27	35	0.044

## 7031 Compact Plug-In Flow Regulator, Supply



Technical polymer, nickel-plated brass, NBR

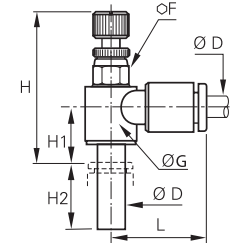


ØD		F	G	H min	H max	H1	H2	L	kg
6	<a href="#">7031 06 00</a>	10	16	35	41	14	17	22	0.013
8	<a href="#">7031 08 00</a>	14	19	39.5	46.5	16	21.5	28	0.035
10	<a href="#">7031 10 00</a>	17	23	43.5	51.5	17.5	24.5	31.5	0.010
12	<a href="#">7031 12 00</a>	17	23	43	51	17	27	35	0.044

## 7630 Miniature Plug-In Flow Regulator, Exhaust



Technical polymer, nickel-plated brass, NBR

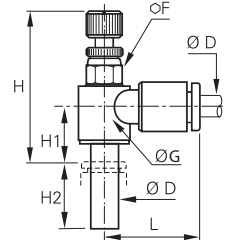


ØD		F	G	H min	H max	H1	H2	L	kg
4	<a href="#">7630 04 00</a>	6	9	25.5	28	9.5	15.5	17	0.007
6	<a href="#">7630 06 00</a>	7	11.5	27.5	29	10.5	17	18.5	0.012

## 7631 Miniature Plug-In Flow Regulator, Supply



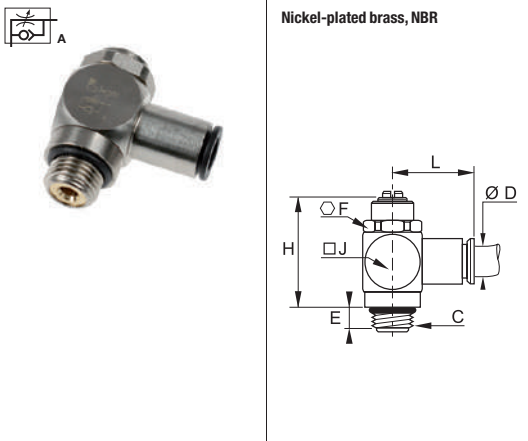
Technical polymer, nickel-plated brass, NBR



ØD		F	G	H min	H max	H1	H2	L	kg
4	<a href="#">7631 04 00</a>	6	9	25.5	28	9.5	15.5	17	0.007
6	<a href="#">7631 06 00</a>	7	11.5	27.5	29	10.5	17	18.5	0.011

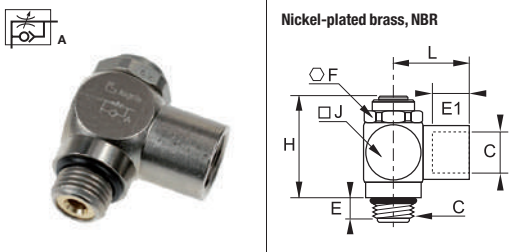
# Metal Regulators with Recessed Adjustment

## 7130 Flow Regulator, Exhaust, Male BSPP and Metric Thread



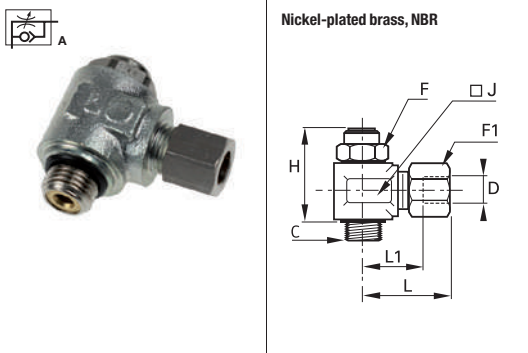
ØD	C		E	F	H	J	L	kg
4	M5x0.8	<a href="#">7130 04 19</a>	4	8	17	9	19	0.015
	G1/8	<a href="#">7130 04 10</a>	5	13	34	15	20	0.037
6	M5x0.8	<a href="#">7130 06 19</a>	4	8	17	9	24	0.013
	G1/8	<a href="#">7130 06 10</a>	5	13	34	15	22	0.038
8	G1/4	<a href="#">7130 06 13</a>	8	17	39	18	24	0.062
	G1/8	<a href="#">7130 08 10</a>	5	13	34	15	25	0.042
	G3/8	<a href="#">7130 08 17</a>	7	20	47	21.5	29	0.109
10	G1/4	<a href="#">7130 10 13</a>	8	17	39	18	30	0.075
	G3/8	<a href="#">7130 10 17</a>	7	20	47	21.5	32	0.120
12	G1/2	<a href="#">7130 10 21</a>	8	23	61	28	34	0.222
	G3/8	<a href="#">7130 12 17</a>	7	20	47	22	36	0.064
	G1/2	<a href="#">7130 12 21</a>	8	23	61	28	38	0.306

## 7140 Flow Regulator, Exhaust, Male/Female BSPP and Metric Thread



C		E	E1	F	H	J	L	kg
M5x0.8	<a href="#">7140 19 19</a>	4	4	8	21	9	11	0.009
G1/8	<a href="#">7140 10 10</a>	5	8	13	32	15	17	0.040
G1/4	<a href="#">7140 13 13</a>	8	12	17	39	18	24	0.073
G3/8	<a href="#">7140 17 17</a>	7	12	20	47	21.5	27	0.125
G1/2	<a href="#">7140 21 21</a>	8	15	23	61	28	31	0.238

## 7160 Flow Regulator with Brass Compression Fitting, Exhaust, Male BSPP Thread



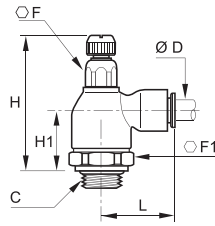
ØD	C		F	F1	H	J	L	L1	kg
4	G1/8	<a href="#">7160 04 10</a>	13	10	26	17	25.5	14.5	0.049
	G1/8	<a href="#">7160 06 10</a>	13	13	26	17	25.5	14.5	0.054
6	G1/4	<a href="#">7160 06 13</a>	17	13	31.5	22	28.5	17.5	0.103
	G1/8	<a href="#">7160 08 10</a>	13	14	26	17	29.5	15.5	0.055
8	G1/4	<a href="#">7160 08 13</a>	17	14	31.5	22	31	17	0.103
	G1/4	<a href="#">7160 10 13</a>	17	19	31.5	22	35	19	0.118
10	G3/8	<a href="#">7160 10 17</a>	20	19	44.5	22	37.5	19	0.188
	G1/2	<a href="#">7160 10 21</a>	23	19	50	27	37.5	19	0.202
12	G3/8	<a href="#">7160 12 17</a>	20	22	44.5	22	38	21.5	0.200
	G1/2	<a href="#">7160 12 21</a>	23	22	50	27	38	21.5	0.213

# Metal Regulators with External Adjustment

## 7100 Compact Flow Regulator, Exhaust, Male BSPP Thread



Nickel-plated brass, NBR

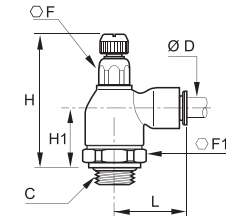


ØD	C		F	F1	H <sub>min</sub>	H <sub>max</sub>	H1	L	kg
4	G1/8	<a href="#">7100 04 10</a>	10	19	47	53	23	21	0.078
	G1/8	<a href="#">7100 06 10</a>	10	19	47	53	23	24.5	0.080
6	G1/4	<a href="#">7100 06 13</a>	10	19	47.5	53	23.5	24.5	0.083
	G1/8	<a href="#">7100 08 10</a>	14	19	50	55	24.5	29	0.097
8	G1/4	<a href="#">7100 08 13</a>	14	19	50	56	25	29	0.100
	G3/8	<a href="#">7100 08 17</a>	17	25	56	62	27	30.5	0.154
10	G1/4	<a href="#">7100 10 13</a>	14	19	50	56	25	35	0.103
	G3/8	<a href="#">7100 10 17</a>	17	25	56	62	27	35	0.157
12	G3/8	<a href="#">7100 12 17</a>	17	25	56	62	27	38	0.198
	G1/2	<a href="#">7100 12 21</a>	17	25	55	62	27	38	0.207
14	G1/2	<a href="#">7100 14 21</a>	17	25	55	62	27	41	0.205

## 7101 Compact Flow Regulator, Supply, Male BSPP Thread



Nickel-plated brass, NBR

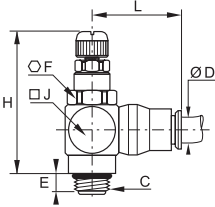


ØD	C		F	F1	H <sub>min</sub>	H <sub>max</sub>	H1	L	kg
4	G1/8	<a href="#">7101 04 10</a>	10	19	47	53	23	21	0.096
	G1/8	<a href="#">7101 06 10</a>	10	19	47	53	23	24.5	0.080
6	G1/4	<a href="#">7101 06 13</a>	10	19	47.5	53	23.5	24.5	0.080
	G1/8	<a href="#">7101 08 10</a>	14	19	50	55	24.5	29	0.097
8	G1/4	<a href="#">7101 08 13</a>	14	19	50	56	25	29	0.100
	G3/8	<a href="#">7101 08 17</a>	17	25	56	62	27	30.5	0.155

## 7680 Compact Flow Regulator, Male BSPP Thread



Nickel-plated brass, NBR

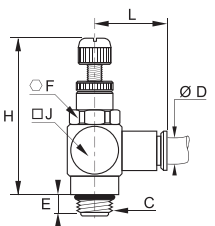


ØD	C		E	F	H <sub>min</sub>	H <sub>max</sub>	J	L	kg
6	G1/8	<a href="#">7680 06 10</a>	5	13	39	44	7.5	24.5	0.045
	G1/8	<a href="#">7680 08 10</a>	5	13	39	44	7.5	24.5	0.047
8	G1/4	<a href="#">7680 08 13</a>	8	17	41	47	9	27	0.076
	G3/8	<a href="#">7680 10 17</a>	7	20	50	60	11	34	0.133
12	G1/2	<a href="#">7680 12 21</a>	8	23	65	77	14	36.5	0.165

## 7180 Miniature Flow Regulator Exhaust, Male BSPP and Metric Thread



Nickel-plated brass, NBR

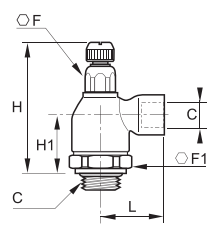


ØD	C		E	F	H <sub>min</sub>	H <sub>max</sub>	J	L	kg
4	M5x0.8	<a href="#">7180 04 19</a>	4	8	24	29	10	19	0.012
	G1/8	<a href="#">7180 04 10</a>	5	13	39	44	15	20	0.042
6	M5x0.8	<a href="#">7180 06 19</a>	4	8	24	29	10	24	0.015
	G1/8	<a href="#">7180 06 10</a>	5	13	39	44	15	22	0.043
8	G1/8	<a href="#">7180 08 10</a>	5	13	39	44	15	26	0.049

## 7110 Compact Flow Regulator Exhaust, Male/Female BSPP Thread



Nickel-plated brass, NBR



C		F	F1	H <sub>min</sub>	H <sub>max</sub>	H1	L	kg
G1/8	<a href="#">7110 10 10</a>	10	19	47	52.5	23	22.5	0.079
G1/4	<a href="#">7110 13 13</a>	14	19	50.5	55.5	25	32	0.108
G3/8	<a href="#">7110 17 17</a>	17	25	56	62	27	34.5	0.212
G1/2	<a href="#">7110 21 21</a>	17	25	55	62	27	37.5	0.192

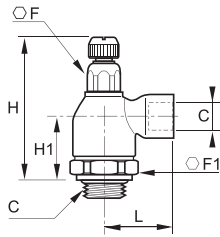


# Metal Regulators with External Adjustment

## 7111 Compact Flow Regulator Supply, Male/Female BSPP Thread



Nickel-plated brass, NBR

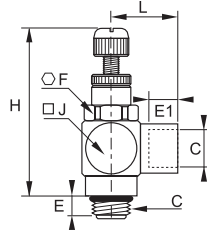


C		F	F1	H <sub>min</sub>	H <sub>max</sub>	H1	L	kg
G1/8	<a href="#">7111 10 10</a>	10	19	47	52.5	23	22.5	0.079
G1/4	<a href="#">7111 13 13</a>	14	19	50.5	55.5	25	32	0.107

## 7190 Miniature Flow Regulator Exhaust, Male/Female BSPP and Metric Thread



Nickel-plated brass, NBR

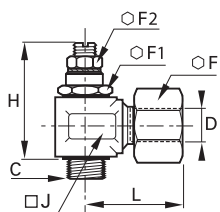


C		E	E1	F	H <sub>min</sub>	H <sub>max</sub>	J	L	kg
M5x0.8	<a href="#">7190 19 19</a>	4	4	8	24	29	10	11	0.012
G1/8	<a href="#">7190 10 10</a>	5	8	13	39	44	15	17	0.044

## 7762 Flow Regulator Exhaust, with Brass Compression Fitting, Male BSPP Thread



Brass, NBR



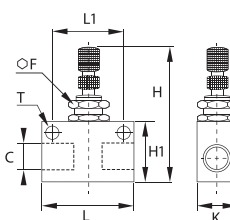
ØD	C		F	F1	F2	H <sub>min</sub>	H <sub>max</sub>	J	L	kg
8	G1/8	<a href="#">7762 08 10*</a>	14	14	7	35.5	38.5	17	28.5	0.056
10	G1/4	<a href="#">7762 10 13</a>	19	17	10	44	49	22	36.5	0.129
14	G3/8	<a href="#">7762 14 17</a>	24	22	13	58	65	27	37.5	0.219
18	G1/2	<a href="#">7762 18 21</a>	30	27	19	62.5	68.5	34	44	0.403

\*with adjustment knurl

## 7170 Panel-Mountable In-Line Flow Regulator, Female BSPP and Metric Thread



Treated aluminium, NBR



C		F	H <sub>min</sub>	H <sub>max</sub>	H1	K	L	L1	ØT	kg
M5x0.8	<a href="#">7170 19 19</a>	12	38	42	15	12	25	18	4.5	0.022
G1/8	<a href="#">7170 10 10</a>	15	49	56	22	18	35	24.7	4.5	0.056
G1/4	<a href="#">7170 13 13</a>	15	57	64	30	20	46	35	6.5	0.086
G3/8	<a href="#">7170 17 17</a>	22	62	73	30	25	50	35	6.5	0.155
G1/2	<a href="#">7170 21 21</a>	22	72	83	40	25	60	44	6.5	0.196

# Stainless Steel Flow Control Regulators

Stainless steel flow control regulators are used to **regulate the speed of a cylinder rod** as well as gas flow in environments with high mechanical or chemical constraints.

## Product Advantages

**Robust** | Suitable for corrosive environments  
Excellent mechanical and chemical resistance  
100% leak-tested in production  
No contamination of conveyed fluids

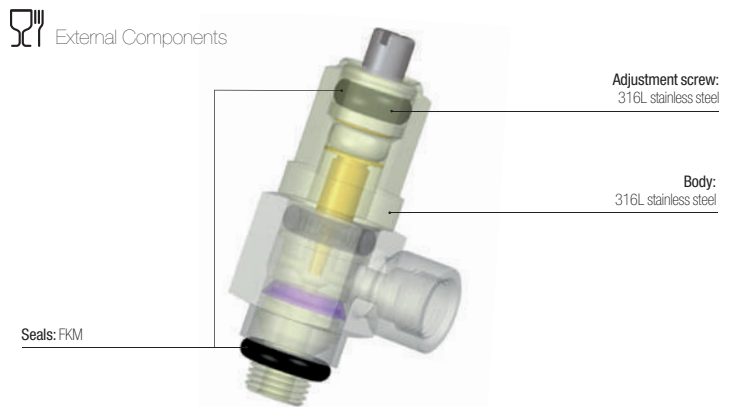
**Optimised Design** | Smooth external surfaces to facilitate cleaning  
Fully compatible with food environments  
Accurate and easy adjustment

**Applications**  
Food Process  
Robotics  
Textile  
Semi-Conductors  
Packaging  
Pneumatics  
Automotive Process

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air <b>7822:</b> all compatible fluids depending on whether FKM or PTFE seals are used
<b>Working Pressure</b>	<b>7810-7812:</b> 1 to 10 bar <b>7820:</b> 1 to 16 bar <b>7822:</b> 1 to 40 bar
<b>Working Temperature</b>	<b>7810 – 7812:</b> 0°C to +70°C <b>7820 – 7822:</b> -15° to +120°C

### Component Materials

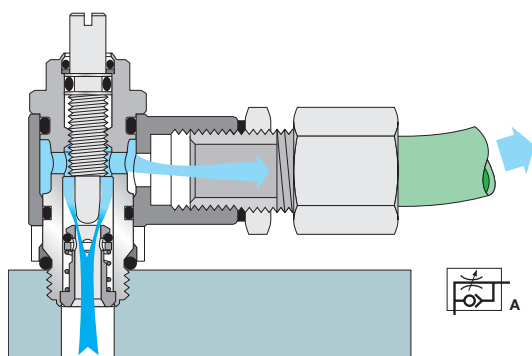


### Regulations

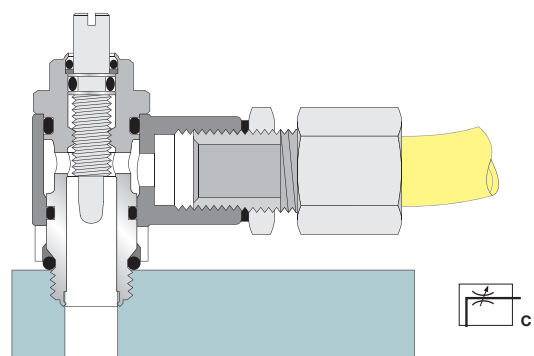
DI: 2002/95/EC (RoHS)  
RG: 1907/2006 (REACH)  
DI: 97/23/EC (PED)  
RG: External Components: 21CFR (FDA)  
RG: External Components: 1935/2004/EC

## Operation

### Exhaust Model with External Adjustment



### Bi-Directional Model with External Adjustment

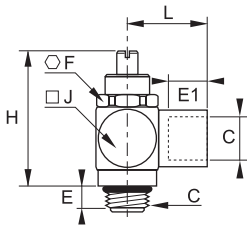


# Stainless Steel Flow Control Regulators

## 7810 Flow Regulator Exhaust, Male/Female BSPP and Metric Thread



Stainless steel 316L, FKM

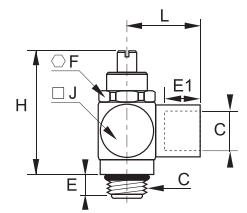


C		E	E1	F	H min	H max	J	L	kg
M5x0.8	<a href="#">7810 19 19</a>	4	4	8	22	26	9	11	0.011
G1/8	<a href="#">7810 10 10</a>	6	8	13	32	38	15	17	0.039
G1/4	<a href="#">7810 13 13</a>	9	12	17	35	40	18	24	0.072
G3/8	<a href="#">7810 17 17</a>	8	12	20	43	53	22	27	0.125
G1/2	<a href="#">7810 21 21</a>	9	15	23	60	71	28	31	0.261

## 7812 Bi-Directional Flow Regulator, Male/Female BSPP and Metric Thread



Stainless steel 316L, FKM

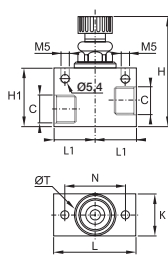


C		E	E1	F	H min	H max	J	L	kg
M5x0.8	<a href="#">7812 19 19</a>	4	4	8	22	26	9	11	0.290
G1/8	<a href="#">7812 10 10</a>	6	8	13	32	38	15	17	0.040
G1/4	<a href="#">7812 13 13</a>	9	12	17	35	40	18	24	0.074
G3/8	<a href="#">7812 17 17</a>	8	12	20	43	53	22	24	0.125
G1/2	<a href="#">7812 21 21</a>	9	15	23	60	71	28	31	0.261

## 7820 In-Line One-Way Flow Regulator, Female BSPP Thread



Stainless steel 316L, FKM

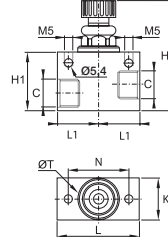


C	DN		H min	H max	H1	K	L	L1	N	ØT	kg
G1/8	7	<a href="#">7820 00 10</a>	47	52.5	30	20	40	20	30	20	0.175
G1/4	7	<a href="#">7820 00 13</a>	47	52.5	30	20	40	20	30	20	0.164
G3/8	9	<a href="#">7820 00 17</a>	56	65	35	25	50	25	36	25	0.298
G1/2	12	<a href="#">7820 00 21</a>	76	87	40	30	60	30	42	30	0.261

## 7822 Bi-Directional In-Line Flow Regulator, Female BSPP Thread



Stainless steel 316L, FKM



C	DN		H min	H max	H1	K	L	L1	N	ØT	kg
G1/8	7	<a href="#">7822 00 10</a>	48	52.5	30	20	40	20	30	20	0.176
G1/4	7	<a href="#">7822 00 13</a>	48	52.5	30	20	40	20	30	20	0.165
G3/8	9	<a href="#">7822 00 17</a>	58	65	35	25	50	25	36	20	0.296
G1/2	12	<a href="#">7822 00 21</a>	76	87	40	30	60	30	42	30	0.270

You will also find our range of stainless steel push-in fittings, compression fittings, valves and accessories in this catalogue.

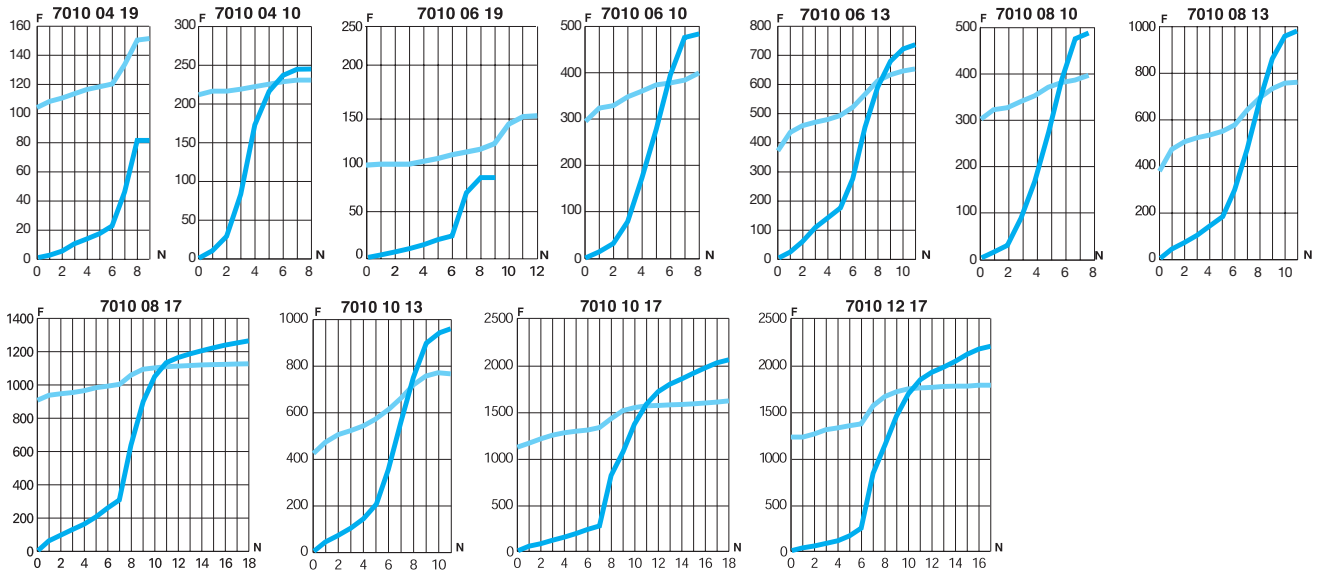
# Flow Characteristics (at 6 bar)

## for Flow Control Regulators

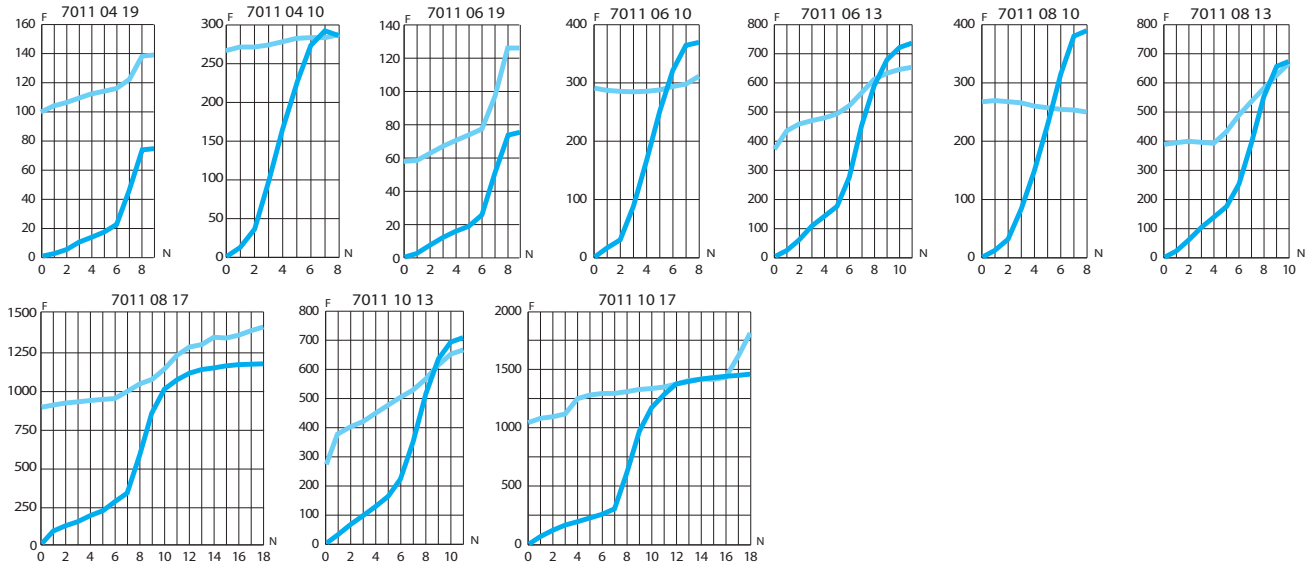


**7010**  
**7011**  
**7012**

### 7010



### 7011



### 7012

#### Flow characteristics for model 7012:

- exhaust version (see model 7010, direction of adjustment)
- supply version (see model 7011, direction of adjustment)

6 bar

Direction of adjustment  
 Return

**F:** Flow in NI/min

**N:** Number of turns

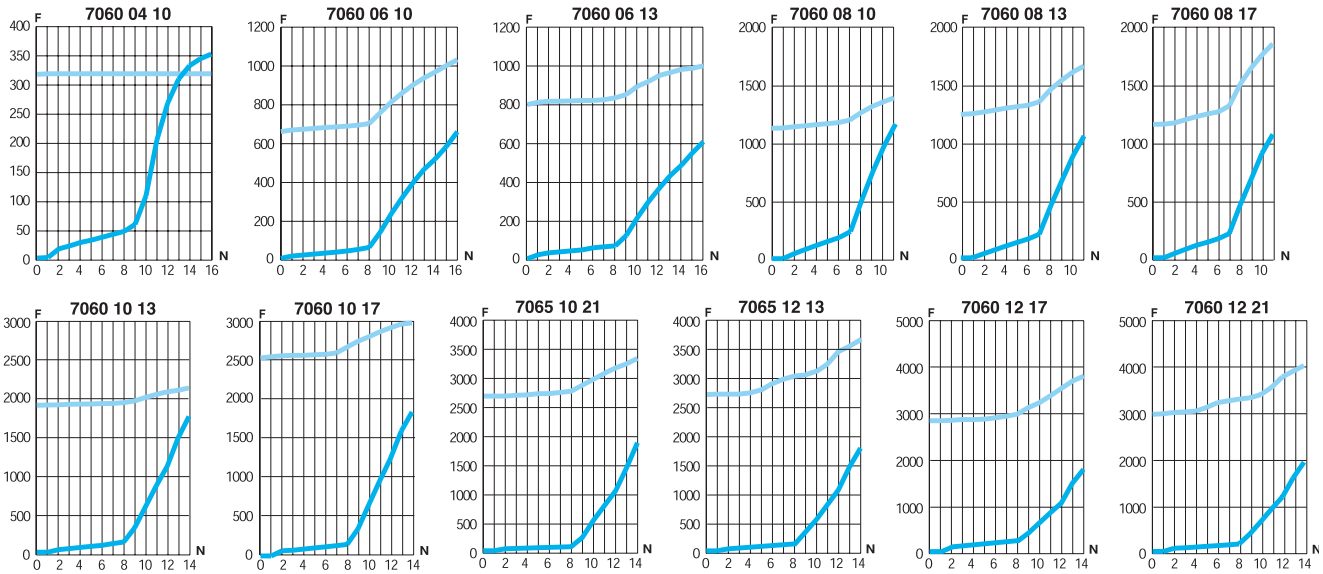
# Flow Characteristics (at 6 bar)

## for Flow Control Regulators

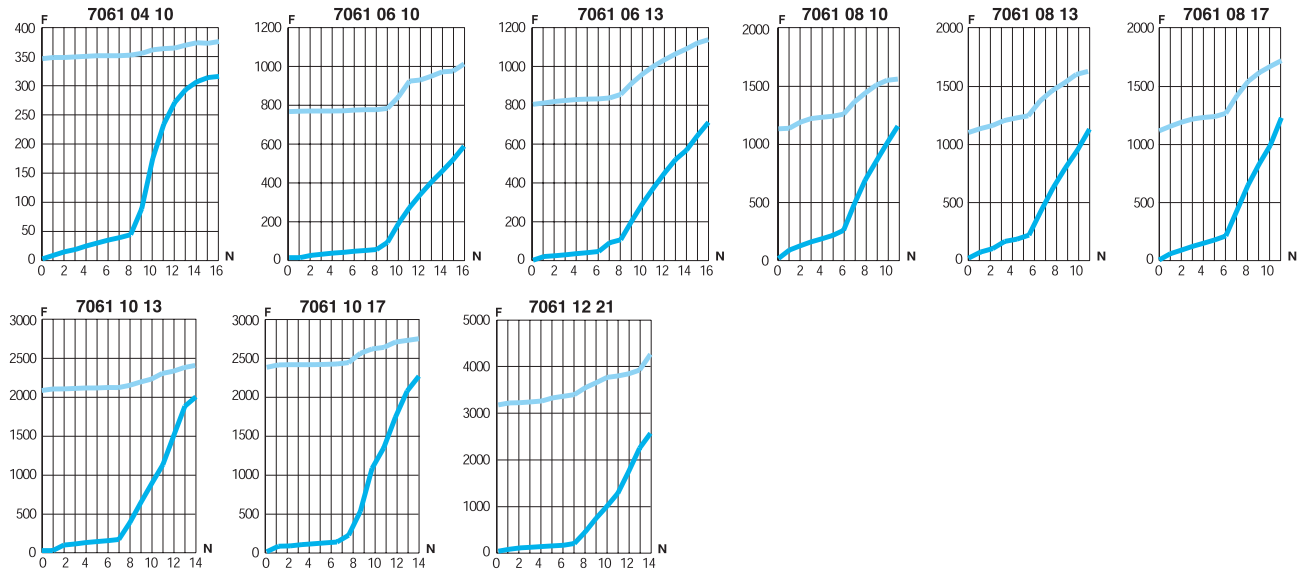


**7060**  
**7061**  
**7062**

### 7060



### 7061



### 7062

#### Flow characteristics for model 7062:

- exhaust version (see model 7060, direction of adjustment)
- supply version (see model 7061, direction of adjustment)

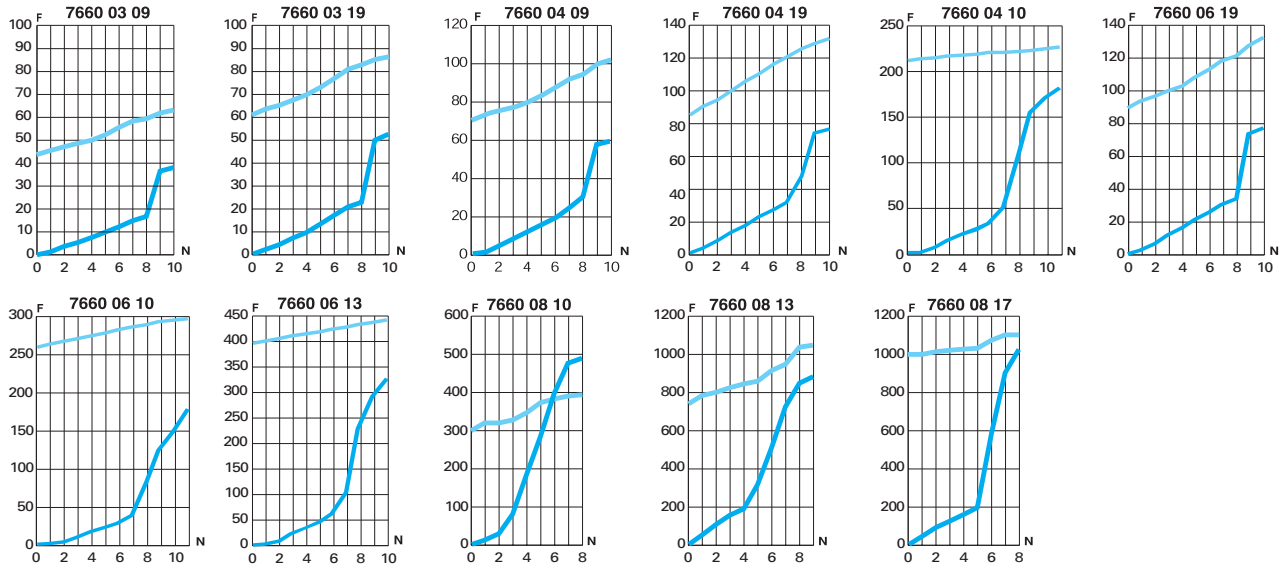
# Flow Characteristics (at 6 bar)

## for Flow Control Regulators

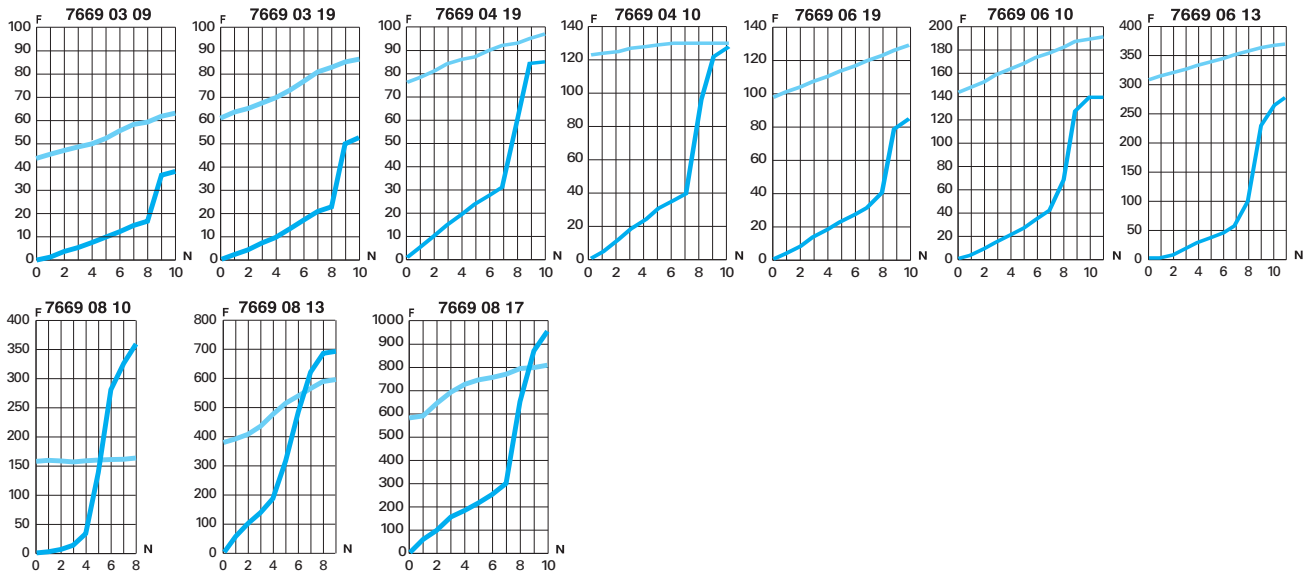


**7660**  
**7669**  
**7662**

### 7660



### 7669



### 7662

#### Flow characteristics for model 7662:

- exhaust version: see model 7660, direction of adjustment
- supply version: see model 7669, direction of adjustment

6 bar

Direction of adjustment  
 Return

F: Flow in NI/min

N: Number of turns

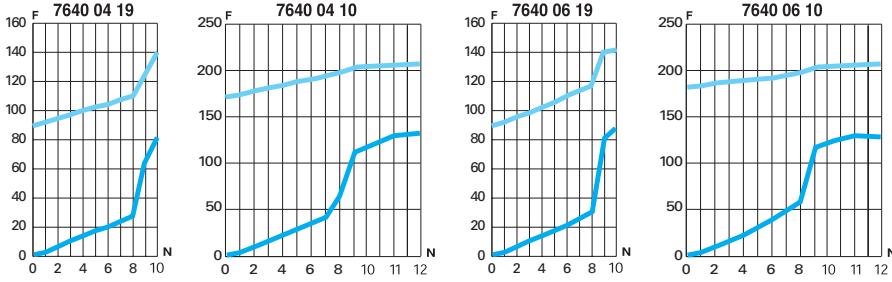
# Flow Characteristics (at 6 bar)

## for Flow Control Regulators

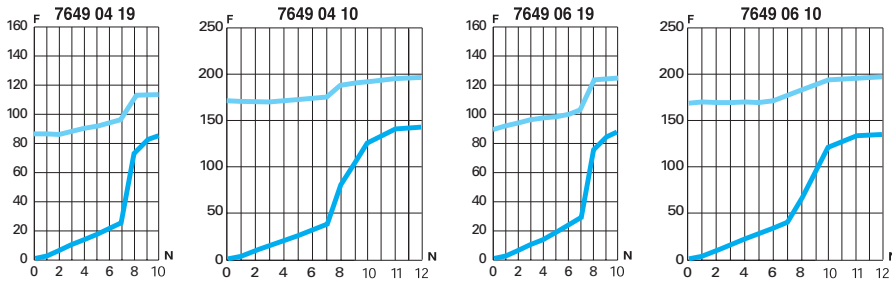


**7640**  
**7649**

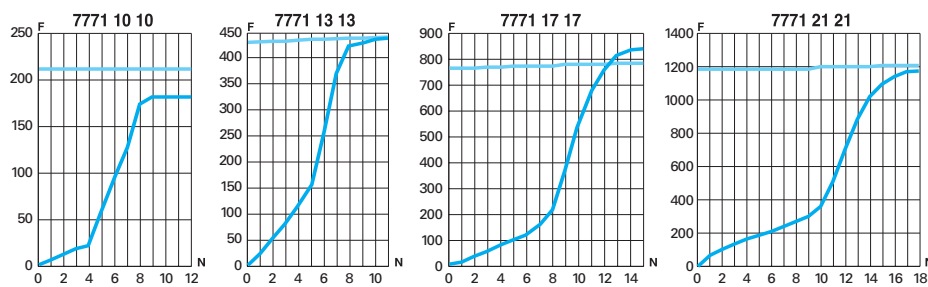
### 7640



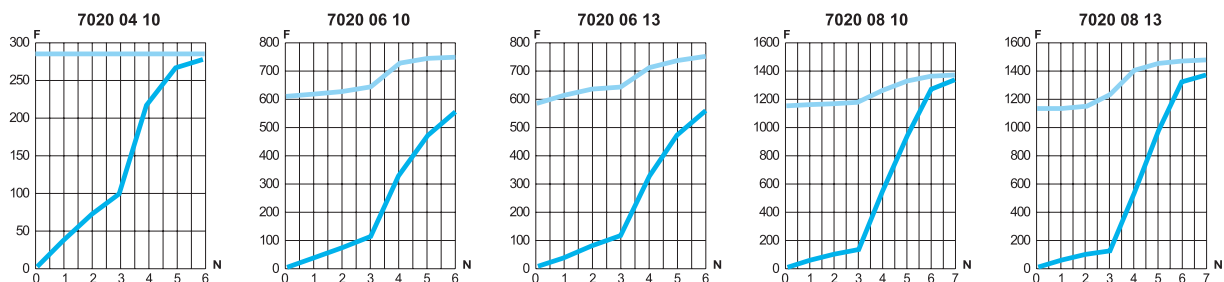
### 7649



**7771**



**7020**

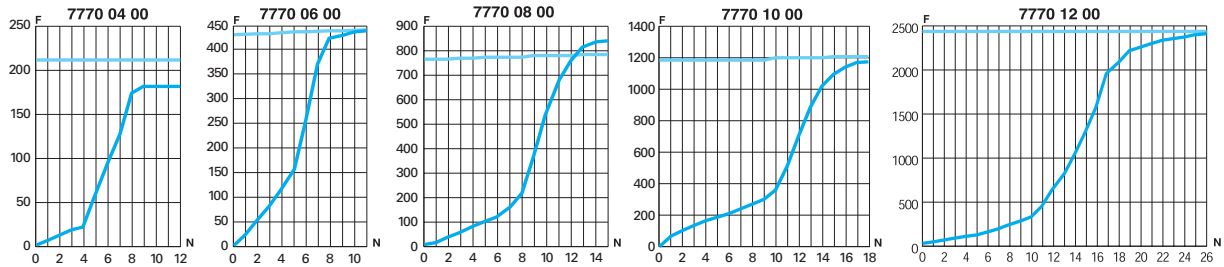


# Flow Characteristics (at 6 bar)

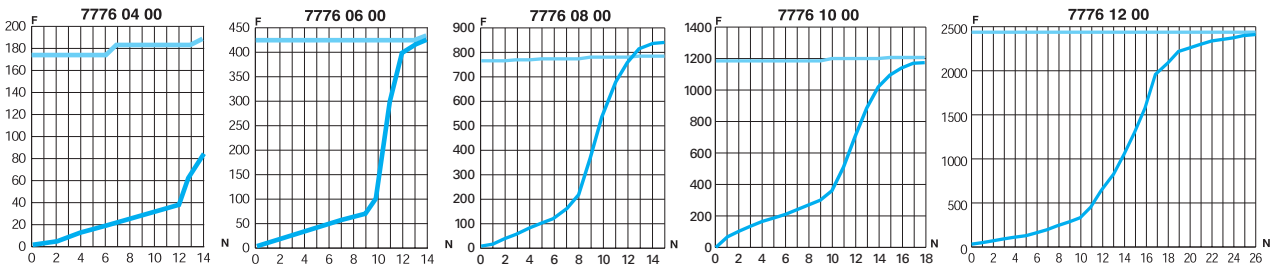
## for Flow Control Regulators



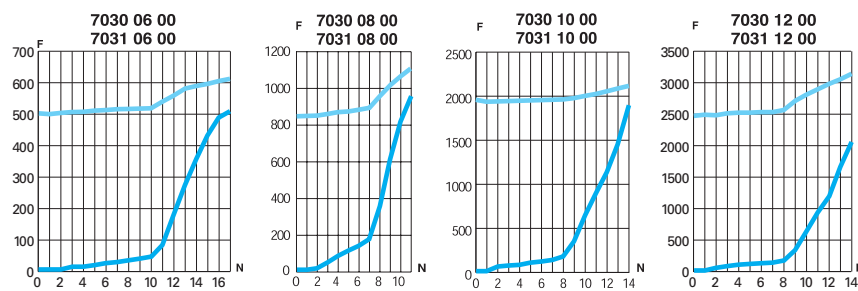
**7770**



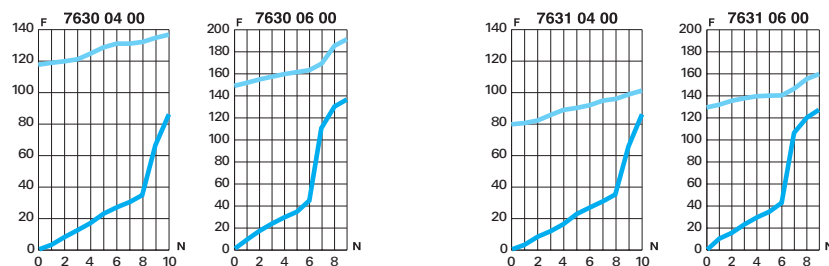
**7776**



**7030**  
**7031**



**7630**  
**7631**



6 bar

Direction of adjustment  
 Return

**F:** Flow in NI/min

**N:** Number of turns



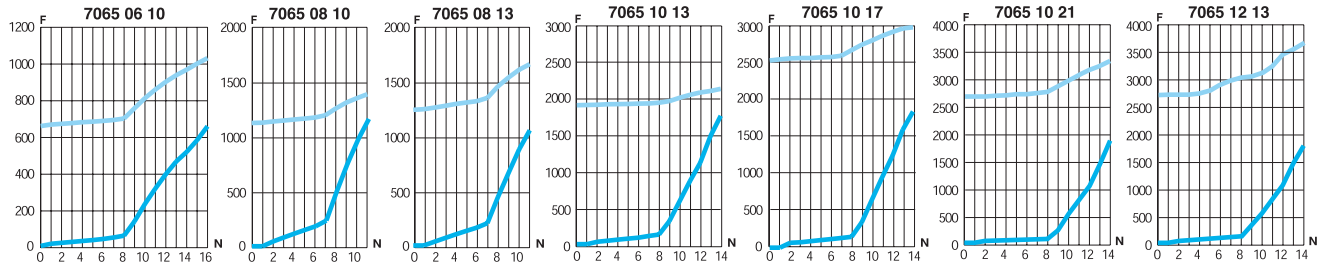
# Flow Characteristics (at 6 bar)

## for Flow Control Regulators

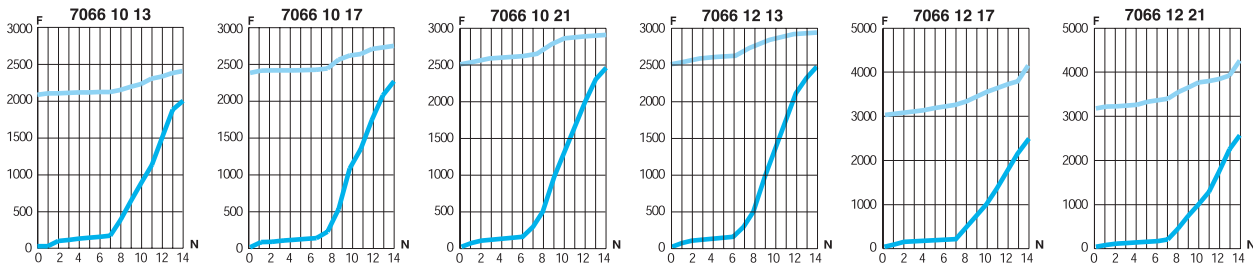


**7065**  
**7066**  
**7067**

### 7065



### 7066



### 7067

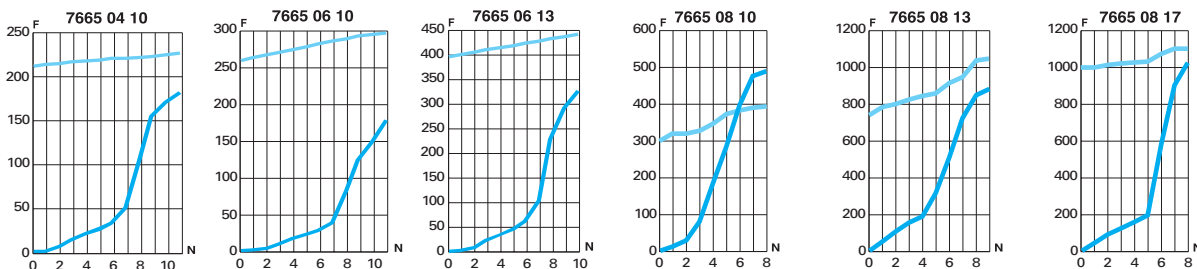
#### Flow characteristics for model 7067:

- exhaust version: see model 7065, direction of adjustment
- supply version: see model 7066, direction of adjustment

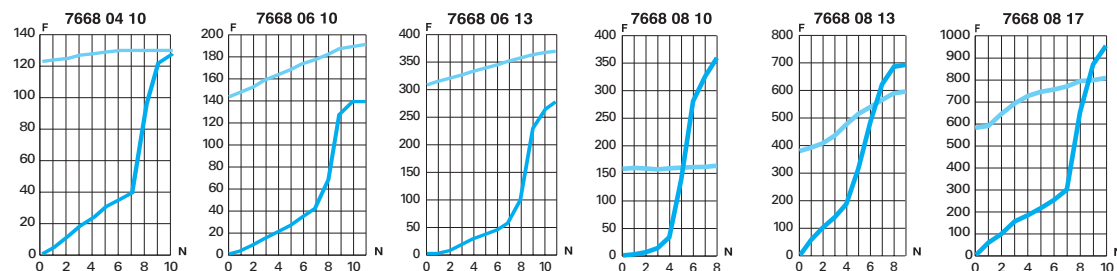


**7665**  
**7668**

### 7665



### 7668

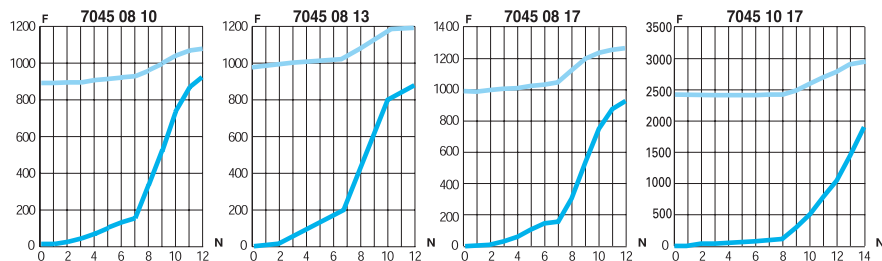


# Flow Characteristics (at 6 bar)

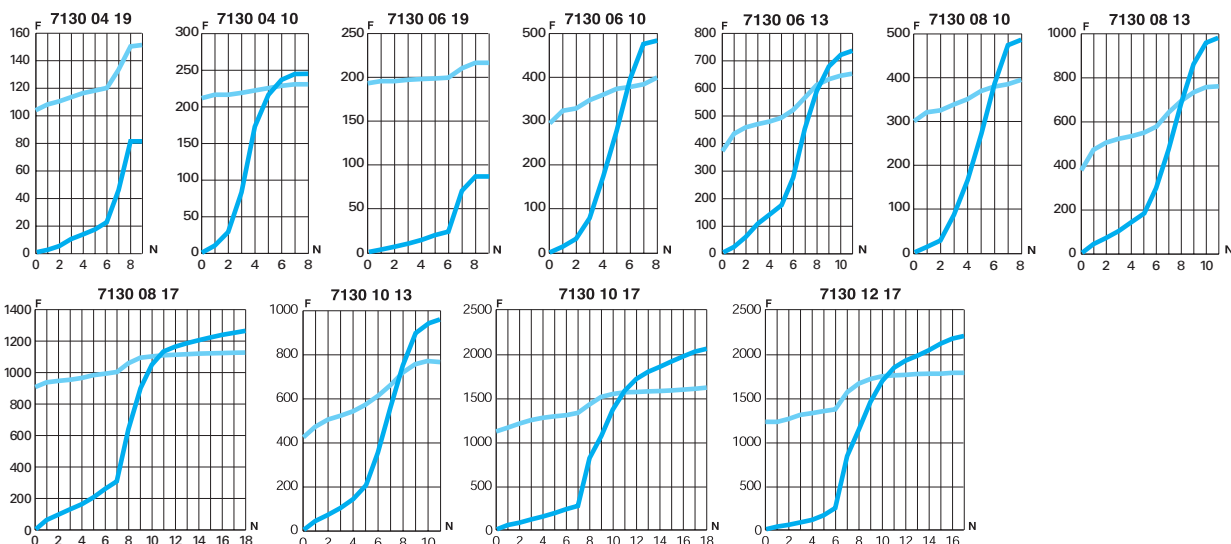
## for Flow Control Regulators



**7045**



**7130**



6 bar

Direction of adjustment  
 Return

**F:** Flow in NI/min

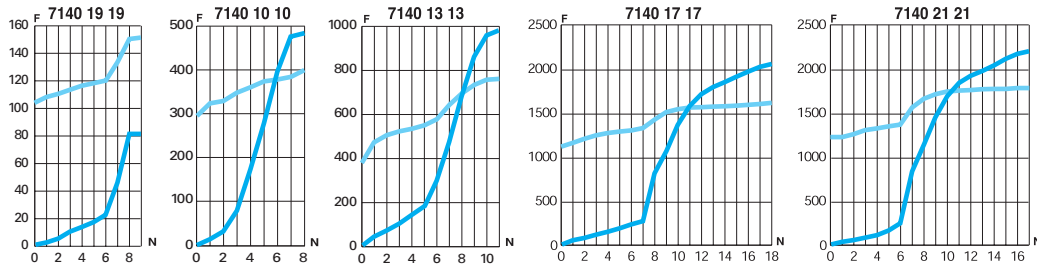
**N:** Number of turns

# Flow Characteristics (at 6 bar)

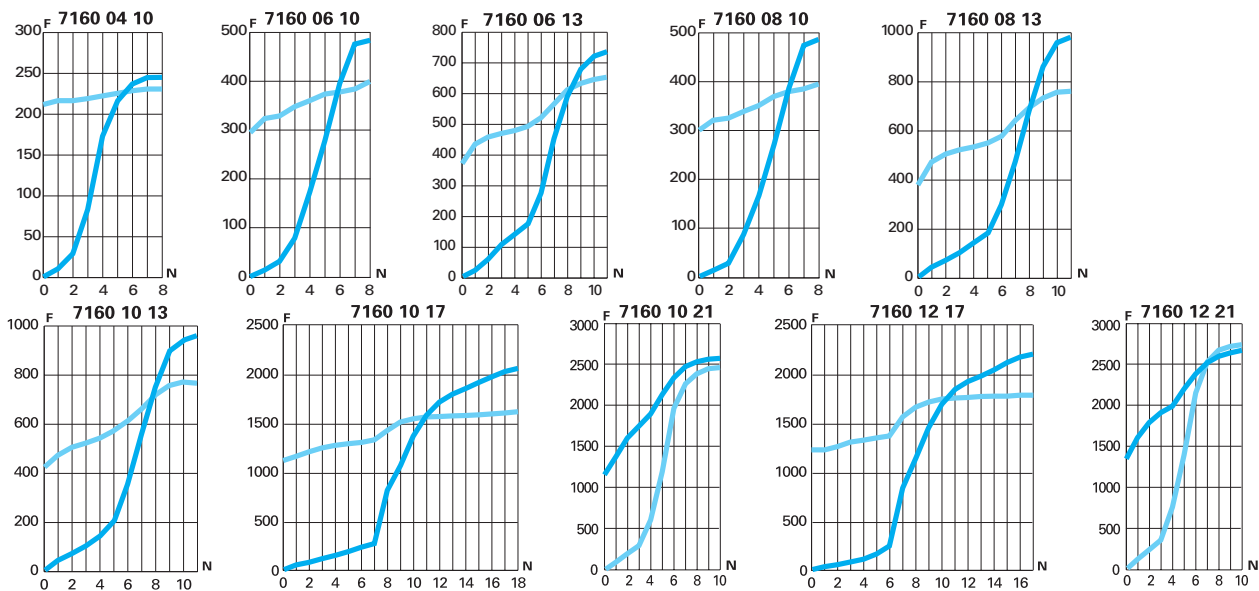
## for Flow Control Regulators



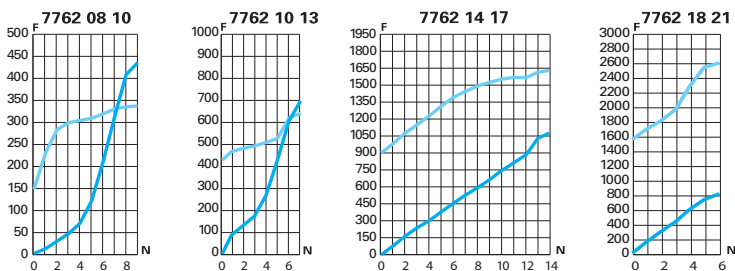
**7140**



**7160**



**7762**

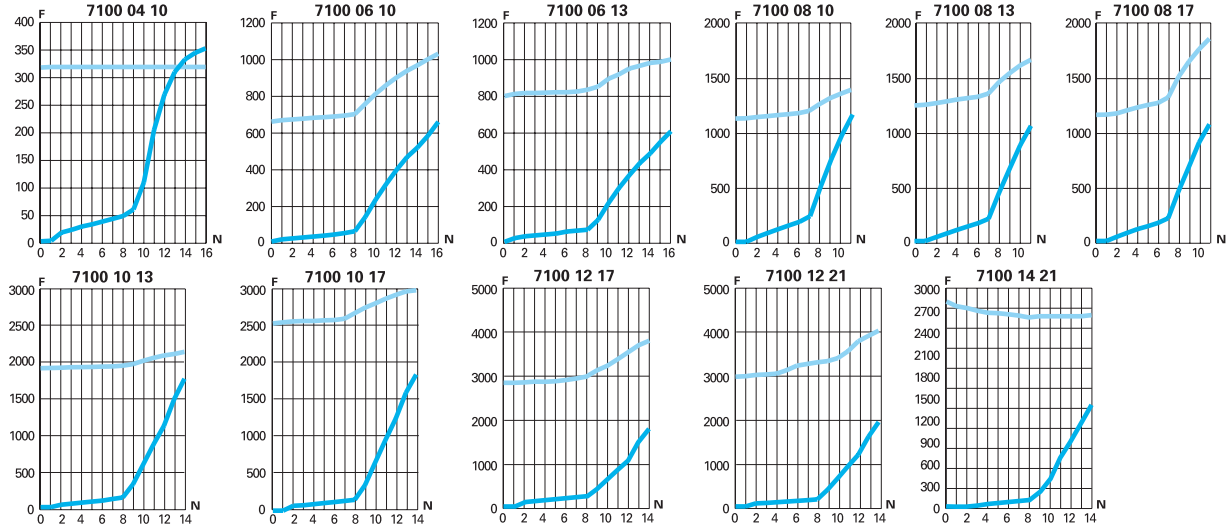


# Flow Characteristics (at 6 bar) for Flow Control Regulators

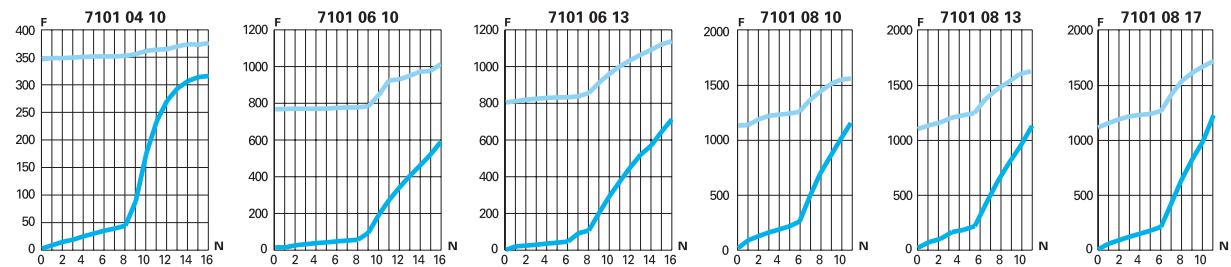


**7100**  
**7101**

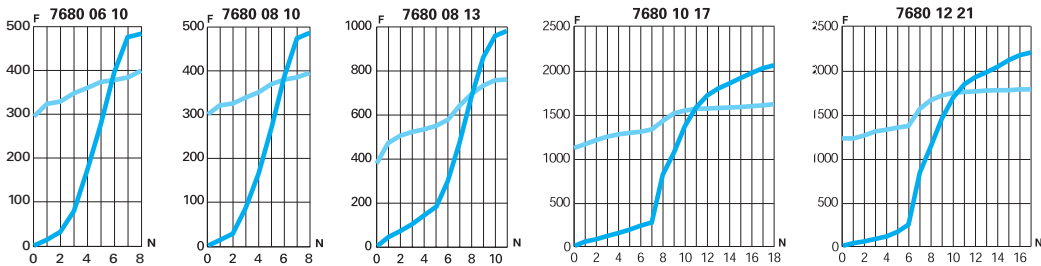
## 7100



## 7101



**7680**



6 bar

Direction of adjustment  
 Return

**F:** Flow in NI/min

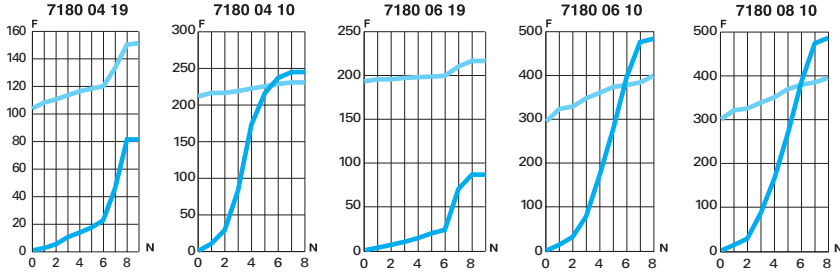
**N:** Number of turns

# Flow Characteristics (at 6 bar)

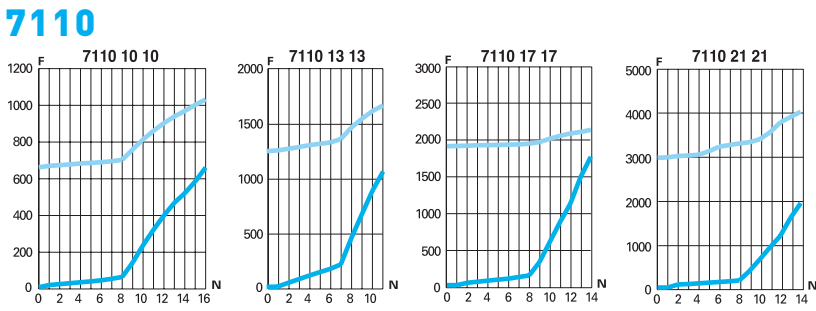
## for Flow Control Regulators



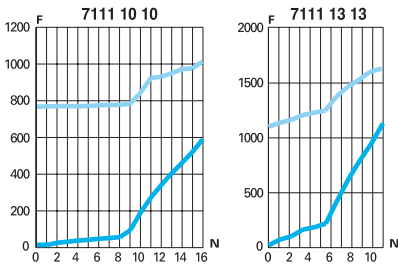
**7180**



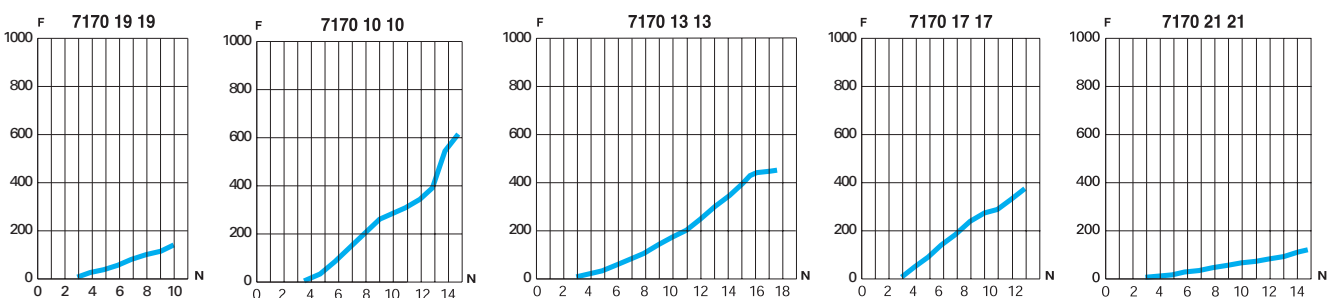
**7110**  
**7111**



**7111**



**7170**



# Function Fittings Range

## Blocking Fittings

- 7880**  
BSPP  
Page 4-37
- 7881**  
BSPP  
Page 4-37
- 7885**  
BSPT  
Page 4-37
- 7886**  
BSPT  
Page 4-37
- 7883**  
BSPP  
Page 4-37



## Piloted Non-Return Valves

- 7892**  
BSPP  
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- 7894**  
BSPP  
Page 4-39



## Non-Return Valves

- 7996**  
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- 7984**  
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## LIQUIfit® Non-Return Valves

- 7992**  
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## Stainless Steel Non-Return Valves

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BSPP  
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## Soft Start Fittings

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## Pneumatic Sensor Fittings

- 7818**  
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## Pressure Regulator Fittings

- 7300**  
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## Pressure Reducer Fittings

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## Snap Fittings

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BSPP  
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## Manually-Operated Valves

- 7800**  
**7801**  
BSPP/Metric  
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- 7802**  
BSPP  
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- 0669**  
BSPP/Metric  
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# Function Fittings Range

## Metal Quick Exhaust Valves

**7970**  
BSPP/Metric  
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**7971**  
BSPP/BSPT  
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**7899**  
BSPP  
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## Silencers

**0674**  
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**0676**  
BSPP/Metric  
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**0670**  
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BSPP/Metric  
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**0675**  
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**0671**  
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**0677**  
BSPP  
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**0672**  
BSPP  
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**0682**  
BSPP  
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**0683**  
NPT  
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# Blocking Fittings

Blocking fittings, mounted in pairs on a cylinder, lock the piston by simultaneously **cutting off the supply and exhaust** when the pilot signal is removed.

## Product Advantages

### Optimum Performance

- Optimum flow: no effect on the performance of the cylinder
- Compact size
- Fully orientable for excellent flexibility in circuit installation
- 100% leak-tested in production
- Date coding to guarantee quality and traceability

### Robust

- Suitable for the most demanding environments
- Excellent corrosion and spark resistance to salt spray and sparks (threaded models)
- Proven push-in technology



**Applications**

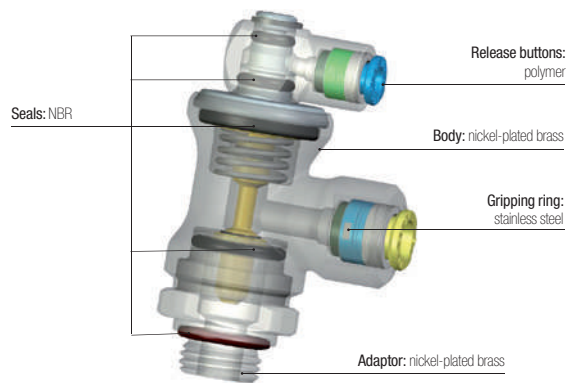
- Robotics
- Machine Tools
- Textile
- Packaging
- Pneumatics
- Automotive Process

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	1 to 10 bar
<b>Working Temperature</b>	-20°C to +70°C

Connection	Supply Flow 6 bar	Pilot and depilot threshold depending on supply pressure				
		2 bar	4 bar	6 bar	8 bar	10 bar
ØD 6 and 8 mm, threads G1/8, G1/4, R1/8, R1/4	Pilot Pressure	2.40	2.90	3.30	3.60	4.00
	Depilot Pressure	1.50	1.80	2.15	2.40	2.80
ØD 10 and 12 mm, threads G3/8, G1/2, R3/8, R1/2	Pilot Pressure	2.70	3.20	3.50	3.80	4.10
	Depilot Pressure	1.40	1.80	2.10	2.40	2.70

### Component Materials



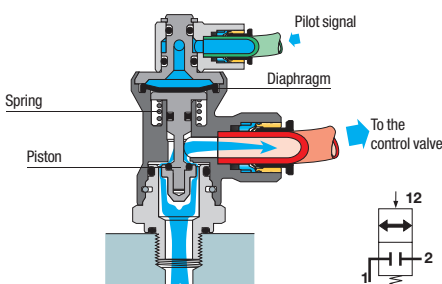
Silicone-free

### Regulations

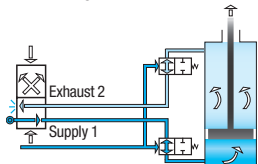
- DI: 2002/95/EC (RoHS)
- DI: 97/23/EC (PED)
- RG: 1907/2006 (REACH)

## Operation

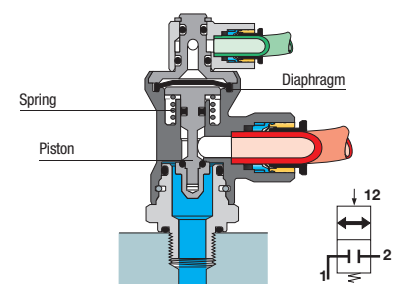
### Cylinder in Operation (pilot signal active)



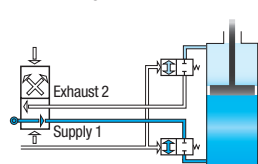
Pilot signal authorises movement



### Cylinder Blocked (pilot signal removed)

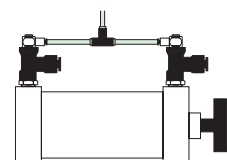
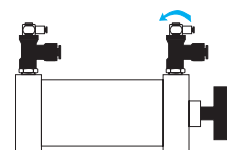


No signal blocks movement



### Installation

Mounted in pairs, blocking fittings are installed directly on the cylinder. Being fully orientable, they offer excellent flexibility in the design and installation of pneumatic circuits.



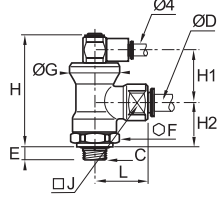


# Blocking Fittings

## 7880 Blocking Fitting, Male BSPP Thread



Nickel-plated brass, NBR

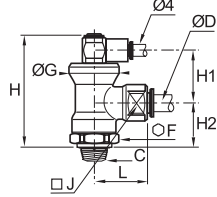


ØD	C		E	F	G	H	H1	H2	J	L	kg
6	G1/8	<a href="#">7880 06 10</a>	5.5	21	24	53	24.5	21	17	28	0.126
	G1/4	<a href="#">7880 06 13</a>	6.5	21	24	53	24.5	21	17	28	0.128
8	G1/4	<a href="#">7880 08 13</a>	6.5	21	24	53	24.5	21	17	28	0.122
	G3/8	<a href="#">7880 08 17</a>	7.5	21	24	53	24.5	21	17	28	0.127
10	G3/8	<a href="#">7880 10 17</a>	7.5	24	28	58	25	25	27	35	0.209
12	G1/2	<a href="#">7880 12 21</a>	9	24	28	58	25	25	27	37.5	0.222

## 7885 Blocking Fitting, Male BSPT Thread



Nickel-plated brass, NBR

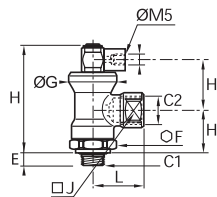


ØD	C		F	G	H	H1	H2	J	L	kg
6	R1/8	<a href="#">7885 06 10</a>	21	24	51.5	25	20	17	28	0.127
	R1/4	<a href="#">7885 06 13</a>	21	24	51.5	25	20	17	28	0.131
8	R1/4	<a href="#">7885 08 13</a>	21	24	51.5	25	20	17	28	0.126
	R3/8	<a href="#">7885 08 17</a>	21	24	51.5	25	20	17	28	0.130
10	R3/8	<a href="#">7885 10 17</a>	24	28	57	25	24	27	35	0.222
	R1/2	<a href="#">7885 12 21</a>	24	28	57	25	24	27	37.5	0.229

## 7881 Blocking Fitting, Male/Female BSPP Thread



Nickel-plated brass, NBR

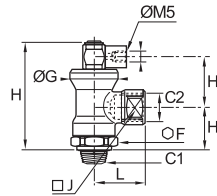


C1	C2		E	F	G	H	H1	H2	J	L	kg
G1/8	G1/4	<a href="#">7881 13 10</a>	5.5	21	24	53	24.5	21	17	25.5	0.118
G1/4	G1/4	<a href="#">7881 13 13</a>	6.5	21	24	53	24.5	21	17	25.5	0.119
G3/8	G3/8	<a href="#">7881 17 17</a>	7.5	24	28	58	25	25	27	34	0.211
G1/2	G1/2	<a href="#">7881 21 21</a>	9	24	28	58	25	25	27	40	0.226

## 7886 Blocking Fitting, Male/Female BSPT Thread

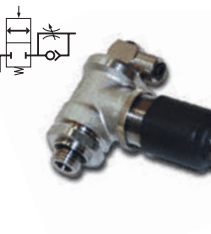


Nickel-plated brass, NBR

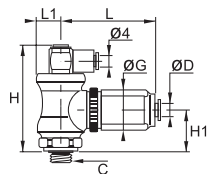


C1	C2		F	G	H	H1	H2	J	L	kg
R1/8	R1/4	<a href="#">7886 13 10</a>	21	24	51.5	25	20	17	26.5	0.121
R1/4	R1/4	<a href="#">7886 13 13</a>	21	24	51.5	25	20	17	26.5	0.126
R3/8	R3/8	<a href="#">7886 17 17</a>	24	28	57	25	24	27	34	0.225
R1/2	R1/2	<a href="#">7886 21 21</a>	24	28	57	25	24	27	40	0.240

## 7883 Blocker/Flow Regulator, Male BSPP Thread



Nickel-plated brass, technical polymer, NBR



ØD	C		G	H	H1	L	L <sub>max</sub>	L1	kg
4	G1/8	<a href="#">7883 04 10</a>	21.5	53	21	46.5	52	12	0.166
	G1/4	<a href="#">7883 06 10</a>	21.5	53	21	46.5	52	12	0.163
6	G1/4	<a href="#">7883 06 13</a>	21.5	53	21	46.5	52	12	0.166
	G1/4	<a href="#">7883 08 13</a>	27	57.5	24.5	54	60	14	0.251
8	G3/8	<a href="#">7883 08 17</a>	27	57.5	24.5	54	60	14	0.254

Combination of blocking and flow regulation functions  
Working temperature: 0 to +70°C

# Piloted Non-Return Valves

Piloted non-return valves are designed to **protect installations**: if the compressed air supply is removed, they lock the air supply to the cylinder, thus maintaining it in position.

## Product Advantages

- System Protection** | Protection of your system  
 Control of inlet and outlet flow: cylinder operation optimised  
 Vent saves time on restart after maintenance operations (model 7894)
- 3 Functions in 1 Product** | A multi-purpose fitting:
  - piloted non-return valve
  - flow control regulator
  - manual exhaust
 All-in-one product: integrated fittings for the control and supply
- Flexible Operation** | Orientable and adjustable through 3 axes  
 Can be integrated into any installation configuration  
 Push-in connection for quicker and more reliable installation  
 Mounted in pairs directly on the cylinder



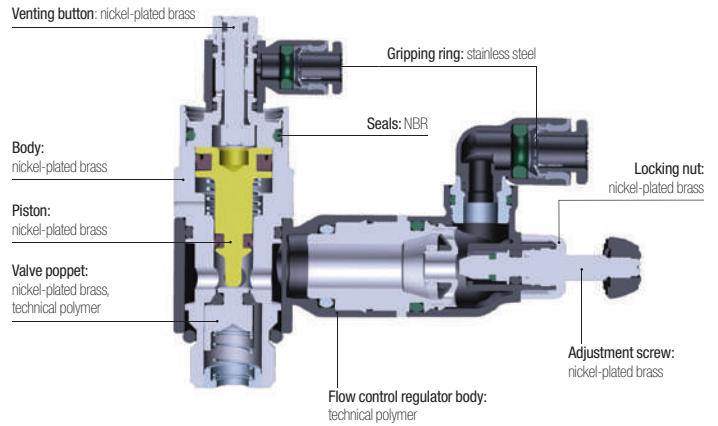
Applications

- Pneumatics
- Assembly
- Robotics
- Machine Tools
- Packaging
- Handling
- Automotive Process

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	1 to 10 bar
<b>Working Temperature</b>	-5°C to +60°C
<b>Cracking Pressure</b>	0.3 bar

### Component Materials



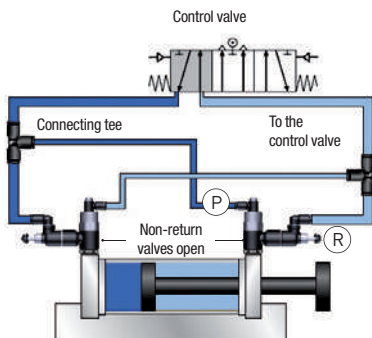
Silicone-free

### Regulations

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

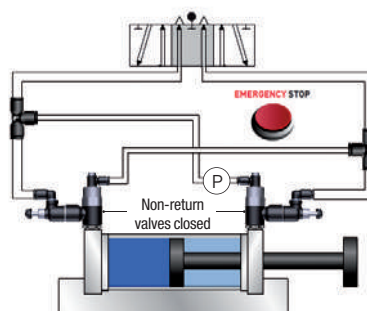
## Operation

### Normal Operation



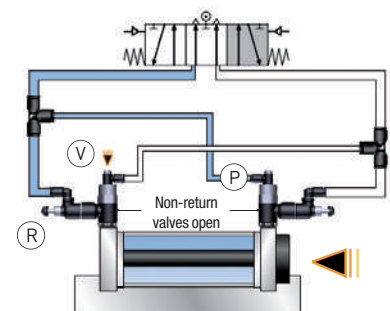
Pilot signal (P)  
Regulation of cylinder rod speed (R)

### Emergency Stop or Pressure Drop



Drop/removal of pilot pressure (P) = cylinder rod locked

### Venting Operation



Venting (V) returns the cylinder rod to the start position, employing the pressure chamber through the flow regulator (R) and pilot line (P)

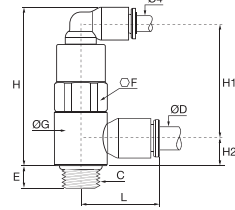
# Piloted Non-Return Valves

**7892**

Piloted Non-Return Valve, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



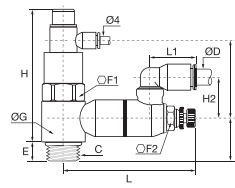
ØD	C		E	F	G	H	H1	H2	L	kg
6	G1/8	<a href="#">7892 06 10</a>	6	13	14	42	30	7	21	0.020
	G1/4	<a href="#">7892 06 13</a>	9	17	18.5	45	32	9	23	0.042
8	G1/8	<a href="#">7892 08 10</a>	6	13	14	42	29	9	25	0.020
	G1/4	<a href="#">7892 08 13</a>	9	17	18.5	45	32	9	27	0.042
10	G3/8	<a href="#">7892 08 17</a>	6	20	22.5	57	41	11	28	0.093
	G3/8	<a href="#">7892 10 17</a>	6	20	22.5	57	41	11	31	0.144
12	G1/2	<a href="#">7892 10 21</a>	10	24	28	63	47	16	36	0.109
12	G1/2	<a href="#">7892 12 21</a>	10	24	28	63	47	16	36	0.150

**7894**

Piloted Non-Return Valve with Flow Regulator and Exhaust, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



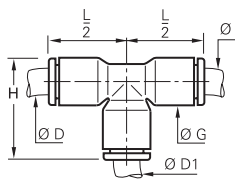
ØD	C		E	F1	F2	G	H	H1	H2	H3	L	L <sub>max</sub>	L1	kg
6	G1/8	<a href="#">7894 06 10</a>	6	13	8	14	46	7	24	31	48.5	51	16	0.041
	G1/4	<a href="#">7894 06 13</a>	9	17	10	18.5	49	11	18	31	59.5	65	17	0.067
	G1/8	<a href="#">7894 08 10</a>	6	13	8	14	46	7	27	31	48.5	51	22	0.051
8	G1/4	<a href="#">7894 08 13</a>	9	17	10	18.5	49	11	23	31	59.5	65	23	0.068
	G3/8	<a href="#">7894 08 17</a>	7	20	14	22.5	69	13	21	40	67.5	73	23	0.060
	G3/8	<a href="#">7894 10 17</a>	7	20	14	22.5	69	13	29	40	67.5	73	26	0.061
10	G1/2	<a href="#">7894 10 21</a>	9	24	17	28	76	12.5	26	47	74	81	26	0.234
	G1/2	<a href="#">7894 12 21</a>	9	24	17	28	76	12.5	27	47	74	81	30	0.237

**3104**

Unequal Tee



Technical polymer, NBR



ØD	ØD1		G	H	L/2	kg
6	4	<a href="#">3104 06 04</a>	10.5	22.5	17.5	0.005
8	4	<a href="#">3104 08 04</a>	13.5	29	22.5	0.014
10	4	<a href="#">3104 10 04</a>	16	33	26	0.027
12	4	<a href="#">3104 12 04</a>	19	39	31	0.034

Model	Pilot and depilot threshold					
		2 bar	4 bar	6 bar	8 bar	10 bar
G1/8	Pilot Pressure	1.2	1.72	2.44	2.96	3.56
	Depilot Pressure	0.56	0.96	1.12	1.76	2.12
G1/4	Pilot Pressure	0.92	1.52	2.12	2.68	3.28
	Depilot Pressure	0.64	1.16	1.68	2.16	2.64
G3/8	Pilot Pressure	1.12	1.84	2.56	3.32	4.08
	Depilot Pressure	0.64	1.04	1.44	1.84	2.36
G1/2	Pilot Pressure	1.04	1.60	2.12	2.76	3.88
	Depilot Pressure	0.76	1.28	1.76	2.20	2.72

Maximum Flow at 6 bar (NI/min)	7894 06 10	7894 06 13	7894 08 10	7894 08 13	7894 08 17	7894 10 17	7894 10 21	7894 12 21
Direction of Adjustment	250	475	240	585	875	940	1535	1560
Return	365	620	355	815	1085	1205	1860	1940

# Non-Return Valves

Non-return valves allow compressed air to flow in one direction and prevent it from flowing in the other. Fitted upstream of the circuit to be protected, they provide **total protection**.

## Product Advantages

### Variety of Applications

Wide range  
Push-in connection: ease of use  
Available in threaded or push-in version

### Powerful Design

Lip seals for improved sealing performance  
Excellent vibration resistance  
Compact  
Lightweight  
Symbol showing the operating direction of flow  
Safe installation with colour codes:  

- green push-button: supply version
- red push-button: exhaust version



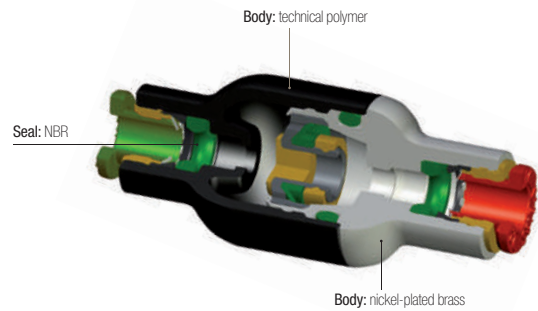
Automotive Process  
Robotics  
Vacuum  
Textile  
Semi-Conductors  
Packaging  
Pneumatics

Applications

## Technical Characteristics

Compatible Fluids	Compressed air	
Working Pressure	1 to 10 bar	
Working Temperature	0°C to +70°C	
Cracking Pressure	0.3 bar	
Flow Characteristics (NI/min)	<b>Model</b>	<b>Flow at 6 bar</b>
	4 mm	350
	6 mm	670
	8 mm	1080
	10 mm	2230
	12 mm	2300

### Component Materials



Silicone-free

### Regulations

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

## Operation

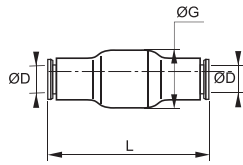
In-Line Version	Supply Version	Exhaust Version	Installation Diagram
<p>Non-return valve</p>	<p>Non-return valve</p> <p>Models 7984-7985</p>	<p>Non-return valve</p> <p>Models 7994-7995</p>	

# Non-Return Valves

## 7996 In-Line Equal Non-Return Valve



Technical polymer, nickel-plated brass, NBR

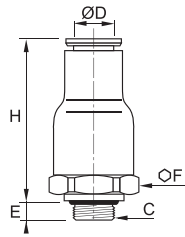


ØD		G	L	kg
4	<a href="#">7996 04 00</a>	16	38.5	0.008
6	<a href="#">7996 06 00</a>	16	41	0.013
8	<a href="#">7996 08 00</a>	19	51.5	0.017
10	<a href="#">7996 10 00</a>	23	63.5	0.070
12	<a href="#">7996 12 00</a>	23	66.5	0.050

## 7984 In-Line Non-Return Valve, Supply, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR

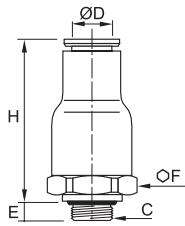


ØD	C		E	F	H	kg
4	M5x0.8	<a href="#">7984 04 19</a>	3	9	32	0.008
	G1/8	<a href="#">7984 04 10</a>	5	16	28.5	0.015
6	G1/8	<a href="#">7984 06 10</a>	5	16	30.5	0.015
	G1/4	<a href="#">7984 06 13</a>	5.5	16	30.5	0.015
8	G1/8	<a href="#">7984 08 10</a>	5	19	36	0.021
	G1/4	<a href="#">7984 08 13</a>	5.5	19	36	0.023
10	G3/8	<a href="#">7984 10 17</a>	5.5	23	42	0.047
	G3/8	<a href="#">7984 12 17</a>	5.5	23	42	0.010
12	G1/2	<a href="#">7984 12 21</a>	7.5	23	44	0.041

## 7994 In-Line Non-Return Valve, Exhaust, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR

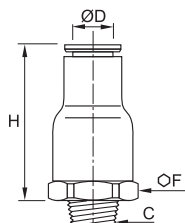


ØD	C		E	F	H	kg
4	M5x0.8	<a href="#">7994 04 19</a>	3	9	32	0.790
	G1/8	<a href="#">7994 04 10</a>	5	16	28.5	0.018
6	G1/8	<a href="#">7994 06 10</a>	5	16	30.5	0.015
	G1/4	<a href="#">7994 06 13</a>	5.5	16	30.5	0.015
8	G1/8	<a href="#">7994 08 10</a>	5	19	36	0.023
	G1/4	<a href="#">7994 08 13</a>	5.5	19	36	0.023
10	G3/8	<a href="#">7994 10 17</a>	5.5	23	42	0.050
	G3/8	<a href="#">7994 12 17</a>	5.5	23	42	0.043
12	G1/2	<a href="#">7994 12 21</a>	7.5	23	44	0.045

## 7985 In-Line Non-Return Valve, Supply, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



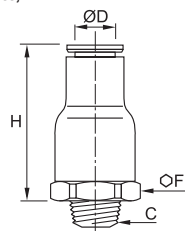
ØD	C		F	H	kg
4	R1/8	<a href="#">7985 04 10</a>	16	28.5	0.016
	R1/8	<a href="#">7985 06 10</a>	16	30.5	0.016
6	R1/4	<a href="#">7985 06 13</a>	16	30.5	0.021
	R1/8	<a href="#">7985 08 10</a>	19	36	0.022
8	R1/4	<a href="#">7985 08 13</a>	19	36	0.020
	R3/8	<a href="#">7985 10 17</a>	23	42	0.049
10	R3/8	<a href="#">7985 12 17</a>	23	42	0.042
	R1/2	<a href="#">7985 12 21</a>	23	44	0.048

Pre-coated thread

## 7995 In-Line Non-Return Valve, Exhaust, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	H	kg
4	R1/8	<a href="#">7995 04 10</a>	16	28.5	0.015
	R1/8	<a href="#">7995 06 10</a>	16	30.5	0.016
6	R1/4	<a href="#">7995 06 13</a>	16	30.5	0.022
	R1/8	<a href="#">7995 08 10</a>	19	36	0.022
8	R1/4	<a href="#">7995 08 13</a>	19	36	0.026
	R3/8	<a href="#">7995 10 17</a>	23	42	0.048
10	R3/8	<a href="#">7995 12 17</a>	23	42	0.042
	R1/2	<a href="#">7995 12 21</a>	23	44	0.048

Pre-coated thread

# Nickel-Plated Brass Adjustable Non-Return Valves

These nickel-plated brass adjustable non-return valves, suitable for **harsh environments**, allow compressed air to flow in one direction and prevent flow in the other. This product incorporates **precise adjustment** of opening pressure for greater flexibility.

## Product Advantages

- Robust** | Excellent resistance to abrasion and corrosion  
Developed for the food process industry
- Optimised Inventory Management** | A single valve for multiple opening pressure settings  
Limits the number of versions  
Flexibility of use
- Protection & Safety** | Maintains downstream pressure if upstream pressure drops  
Designed with locking nut to protect initial setting in the event of:
  - vibration
  - intensive use
  - accidental handling
 Adjustment and locking of the non-return valve cracking pressure with two different Allen keys prevents the settings from being accidentally changed  
Smooth external profile to facilitate cleaning in situ  
Maximum constant flow guaranteed whatever the setting of the cracking pressure



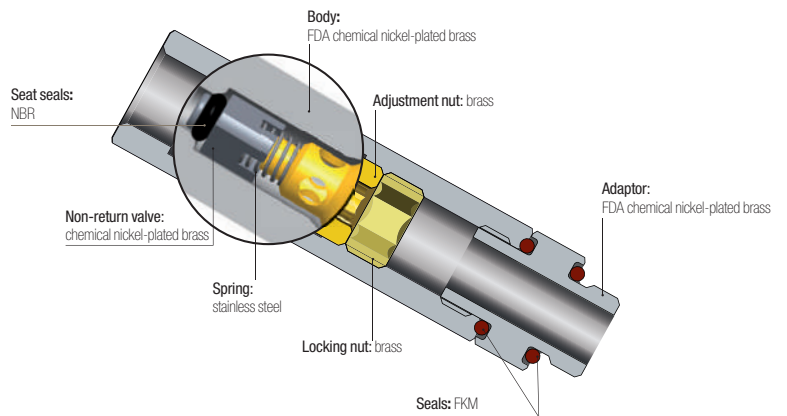
**Applications**

Printing  
Machine Tools  
Food Process  
Petrochemical  
Textile  
Automotive Process  
Chemical

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air					
<b>Working Pressure</b>	0 to 12 bar					
<b>Working Temperature</b>	-20°C to +80°C					
<b>Cracking Pressure</b>	Threads		0 to 4 turns (values given as an example only)			
	M5x0.8 - G1/8 - G1/4		1 to 0.10 bar			
	G3/8		1 to 0.15 bar			
	G1/2		1 to 0.20 bar			
<b>Max. Tightening Torques</b>	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5

### Component Materials



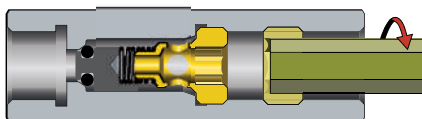
**Silicone-free**

### Regulations

- DI: 2002/95/EC (RoHS)
- RG: External Components: 21CFR (FDA)  
(seal: § 177.2600, nickel: §184.1537, grease: NSF H1)
- RG: 1935/2004 (external surface flow  $\geq$  0.02 litre per hour)
- DI: 2006/42/EC (external surface Pa < 0.8  $\mu$ m)
- RG: 1907/2006 (REACH)

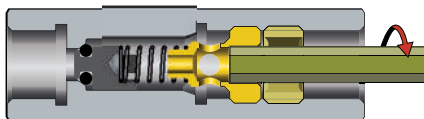
## Operation

### Step 1



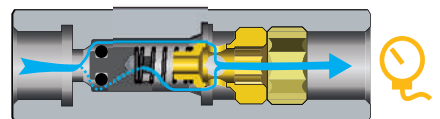
Unscrew the locking nut with an Allen key.

### Step 2



Unscrew the adjustment nut with a smaller Allen key to adjust the cracking pressure. The number of turns adjusts the cracking pressure from 1 bar to 0.10 bar.



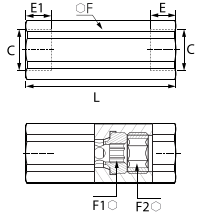

### Step 3





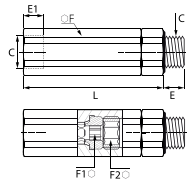

Tighten the locking nut with the Allen key to lock the cracking pressure setting. Then, control the pressure with a pressure gauge downstream.

# Nickel-Plated Brass Adjustable Non-Return Valves



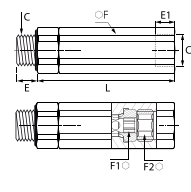

## 7930 Adjustable Check Valve, Double Female BSPP and Metric Thread

 	FDA chemical nickel-plated brass, FKM 	C		E	E1	F	F1	F2	L	kg
		M5x0.8	<a href="#">7930 19 19</a>	8	4	13	4	6	49	0.055
G1/8	<a href="#">7930 10 10</a>	8	6	13	4	6	45	0.033		
G1/4	<a href="#">7930 13 13</a>	10	7.5	16	6	8	54	0.073		
G3/8	<a href="#">7930 17 17</a>	11	8.5	20	8	10	61.5	0.163		
G1/2	<a href="#">7930 21 21</a>	13	10	24	10	12	73	0.171		

## 7931 Adjustable Check Valve Supply, Male/Female BSPP Thread

 	FDA chemical nickel-plated brass, FKM 	C		E	E1	F	F1	F2	L	kg
		G1/8	<a href="#">7931 10 10</a>	5.5	6	13	4	6	51.5	0.043
G1/4	<a href="#">7931 13 13</a>	6.5	7.5	16	6	8	61.5	0.208		
G3/8	<a href="#">7931 17 17</a>	7.5	8.5	20	8	10	70	0.125		
G1/2	<a href="#">7931 21 21</a>	9	10	24	10	12	82.5	0.212		

## 7932 Adjustable Check Valve Exhaust, Male/Female BSPP Thread

 	FDA chemical nickel-plated brass, FKM 	C		E	E1	F	F1	F2	L	kg
		G1/8	<a href="#">7932 10 10</a>	5.5	8	13	4	6	51.5	0.009
G1/4	<a href="#">7932 13 13</a>	6.5	10	16	6	8	61.5	0.058		
G3/8	<a href="#">7932 17 17</a>	7.5	11	20	8	10	70	0.123		
G1/2	<a href="#">7932 21 21</a>	9	13	24	10	12	82.5	0.212		

# LIQUIfit® Non-Return Valves

LIQUIfit® non-return valves meet the requirements for conveying **beverages**. They allow flow in one direction and prevent any return flow. Fitted in the circuit, they provide **total protection**.

## Product Advantages

### Suitable for Beverage Applications

Fully compatible for use with water, beverages and liquid foodstuffs (liquids and gas)  
Very low cracking threshold  
Excellent chemical compatibility  
Resistant to cleaning products  
Hygienic design with smooth surfaces  
Fluid direction indicated  
EPDM sealing technology



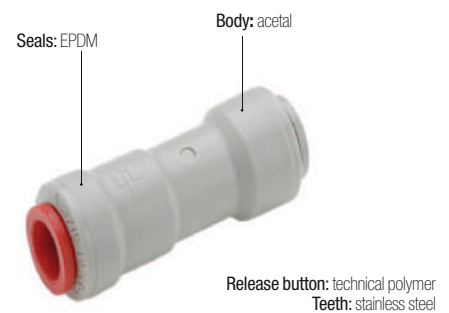
Water Softeners  
Water Treatment  
Water Purification  
Drinks Dispensers  
Hot & Cold Water Systems

Applications

## Technical Characteristics

Compatible Fluids	Water, beverages, liquid foodstuffs
Working Pressure	1 to 10 bar
Working Temperature	0°C to +65°C
Cracking Pressure	< 0.05 bar

### Component Materials



Silicone-free

### Regulations

DI: 2002/95/EC (RoHS), 2011/65/EC  
FDA: 21 CFR 177.1550  
NSF 51 (referenced material)  
NSF 61  
RG: 1907/2006 (REACH)



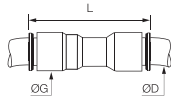
# LIQUIfit® Non-Return Valves


**7992**

Single Non-Return Valve



Acetal, EPDM



ØD		G	L	kg
1/4	<a href="#">7992 56 00WP2</a>	17	51	0.008
3/8	<a href="#">7992 60 00WP2</a>	20	55	0.011

## Associated Products

The full range of LIQUIfit® products can be found in this catalogue:

- Push-in fittings for metric and inch tubing (Chapter 1)
- Valves (Chapter 6)

To complement the LIQUIfit® range, Parker Legris Advanced PE tubing (Chapter 3) is suited to the most demanding environments, approved for permanent contact with beverage and food products, as well as for water treatment.

# Stainless Steel Non-Return Valves

Stainless steel non-return valves are ideally suited to **harsh environments** and for conveying **many industrial fluids**. These products allow fluids to flow in one direction and prevent them from flowing in the other.

## Product Advantages

**Demanding Environments** | Robust design  
 Suitable for use with many chemicals or in corrosive environments  
 Compatible with many fluids

**Compact & Versatile** | Reduced dimensions  
 Smooth external surfaces contribute to equipment cleanliness  
 Flow direction symbol protects against incorrect installation  
 Hexagonal body to facilitate installation



**Applications**  
 Pneumatics  
 Machine Tools  
 Food Process  
 Printing  
 Chemical  
 Textile  
 Automotive Process

## Technical Characteristics

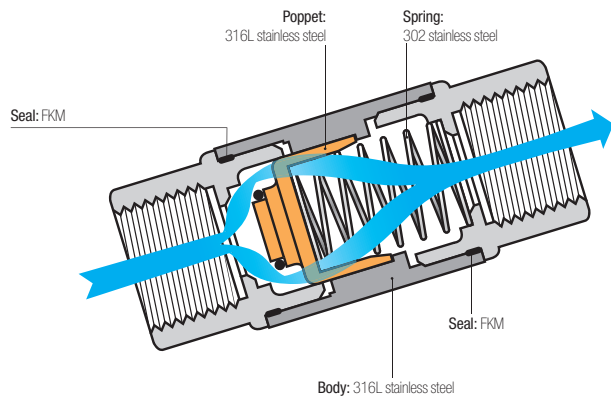
<b>Compatible Fluids</b>	Many fluids
<b>Working Pressure</b>	0.5 to 40 bar
<b>Working Temperature</b>	-20°C to +180°C

Flow Characteristics	Threads	NI/min	Kv
	G1/8	18.88	1.60
G1/4	19.91	1.69	
G3/8	35.54	3.01	
G1/2	36.50	3.10	
G3/4	65.86	5.59	
G1	92.60	7.86	

<b>Cracking Pressure</b>	0.25 bar
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### Component Materials




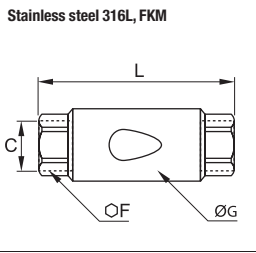

**Silicone-free**

### Regulations


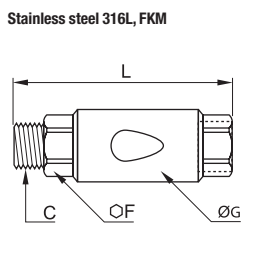

DI: 2002/95/EC (RoHS)  
 RG: 1907/2006 (REACH)  
 DI: 97/23/EC (PED)

# Stainless Steel Non-Return Valves


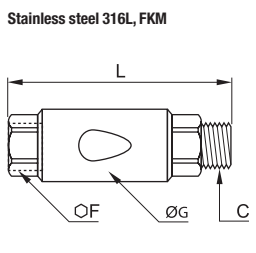

## 4890 Non-Return Valve, Female BSPP Thread

	Stainless steel 316L, FKM 	<b>C</b>	<b>DN</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
		G1/8	10		<a href="#">4890 10 10</a>	17	22	50	0.083
		G1/4	10		<a href="#">4890 13 13</a>	17	22	50	0.074
		G3/8	15		<a href="#">4890 17 17</a>	22	30	67	0.183
		G1/2	15		<a href="#">4890 21 21</a>	24	30	71	0.209
		G3/4	20		<a href="#">4890 27 27</a>	32	42	84	0.289
		G1	25		<a href="#">4890 34 34</a>	38	42	90	0.519


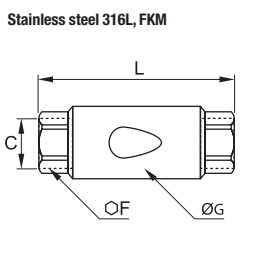

## 4891 Non-Return Valve, Supply, Male BSPP Thread/Exhaust, Female BSPP Thread

	Stainless steel 316L, FKM 	<b>C</b>	<b>DN</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
		G1/8	10		<a href="#">4891 10 10</a>	17	22	56	0.100
		G1/4	10		<a href="#">4891 13 13</a>	17	22	58	0.082
		G3/8	15		<a href="#">4891 17 17</a>	22	30	75	0.189
		G1/2	15		<a href="#">4891 21 21</a>	24	30	79	0.209
		G3/4	20		<a href="#">4891 27 27</a>	32	42	84	0.300
		G1	25		<a href="#">4891 34 34</a>	38	42	102	0.519

## 4892 Non-Return Valve, Supply, Female BSPP Thread/Exhaust, Male BSPP Thread

	Stainless steel 316L, FKM 	<b>C</b>	<b>DN</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
		G1/8	10		<a href="#">4892 10 10</a>	17	22	56	0.100
		G1/4	10		<a href="#">4892 13 13</a>	17	22	58	0.082
		G3/8	15		<a href="#">4892 17 17</a>	22	30	75	0.191
		G1/2	15		<a href="#">4892 21 21</a>	24	30	79	0.209
		G3/4	20		<a href="#">4892 27 27</a>	32	42	84	0.300
		G1	25		<a href="#">4892 34 34</a>	38	42	102	0.519

## 4895 Non-Return Valve, Female NPT Thread

	Stainless steel 316L, FKM 	<b>C</b>	<b>DN</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
		NPT1/8	10		<a href="#">4895 11 11</a>	17	22	50	0.083
		NPT1/4	10		<a href="#">4895 14 14</a>	17	22	54	0.079
		NPT3/8	15		<a href="#">4895 18 18</a>	22	30	67	0.197
		NPT1/2	15		<a href="#">4895 22 22</a>	24	30	77	0.194

# Soft Start Fittings

These fittings protect your system by preventing sudden shocks. On start-up, they control the **pressure increase** in the downstream circuit; this helps **prevent the risk** of industrial accidents.

## Product Advantages

### Protection of Equipment & Personnel

Prevents the risk of damage after any stoppage which requires the system to be vented  
Returns the control valve to its initial position in total safety  
Adjustment of the pressurisation speed  
Protects the adjustment mechanism using a recessed adjustment screw

### Mounted on FRL

Models 7860 and 7861: yellow identification washer  
Protection for the whole system  
Simultaneous pressurisation speed of the whole system

### Mounted on Control Valve

Models 7870 and 7871: black identification washer  
Protection of individual circuits  
Mounted on the control valve, it optimises the pressurisation speed of a specific cylinder



Pneumatic Systems  
Robotics  
Textile  
Semi-Conductors  
Packaging  
Pneumatics

**Applications**

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air	
<b>Working Pressure</b>	3 to 10 bar	
<b>Working Temperature</b>	-15°C to +60°C	

Max. Tightening Torques	Threads	daN.m
	G1/4	1.3
G3/8	1.5	
G1/2	1.8	

Flow Characteristics	Model	Flow at 6 bar	Kv
	7860 08 13	1500 NI/min	0.80
7860 10 13	2100 NI/min	1.20	
7860 10 17	2200 NI/min	1.30	
7860 12 17	3100 NI/min	1.00	
7860 12 21	3100 NI/min	1.00	
7861 13 13	2100 NI/min	1.20	
7861 17 17	3100 NI/min	1.00	
7861 21 21	3100 NI/min	1.00	
7870 08 13	1500 NI/min	0.80	
7870 10 13	2000 NI/min	1.15	
7870 10 17	2000 NI/min	1.15	
7871 13 13	2000 NI/min	1.15	
7871 17 17	2000 NI/min	1.15	

### Component Materials

Internal seal: NBR

Adjustment screw:  
nickel-plated brass

Washer:  
technical polymer

Body:  
technical polymer  
or nickel-plated brass



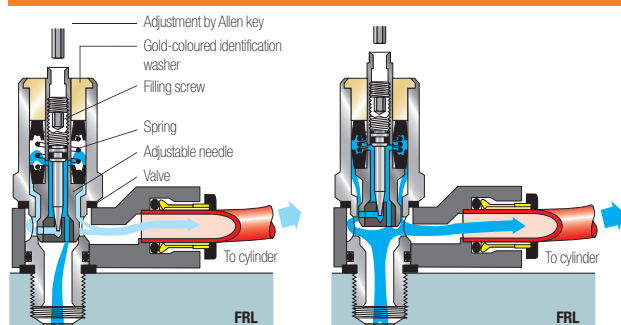
**Silicone-free**

### Regulations

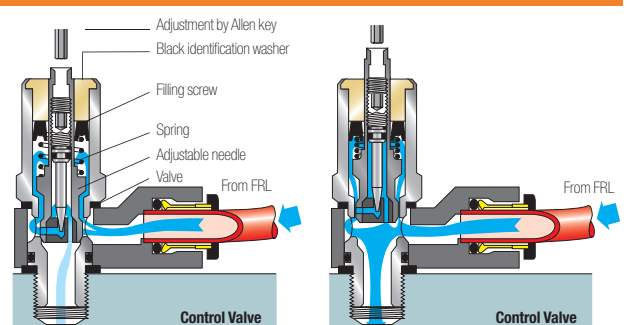
DI: 2002/95/CE (RoHS)  
RG: 1907/2006 (REACH)  
DI: 97/23/CE (PED)

## Operation

### Filter, Regulator, Lubricator


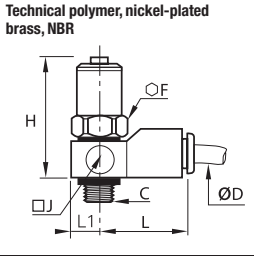



### Control Valve


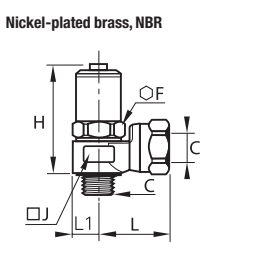



# Soft Start Fittings


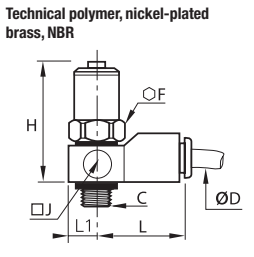

## 7860 Soft Start Fitting for Isolating Valve, Male BSPP Thread

		Technical polymer, nickel-plated brass, NBR	ØD	C		F	H <sub>min</sub>	H <sub>max</sub>	J	L	L1	kg
			8	G1/4	<a href="#">7860 08 13</a>	17	54	61	20	35	10	0.064
			10	G1/4	<a href="#">7860 10 13</a>	22	55	62	25	41	12.5	0.112
				G3/8	<a href="#">7860 10 17</a>	22	55	62	25	41	12.5	0.115
			12	G3/8	<a href="#">7860 12 17</a>	22	55	62	25	45	12.5	0.125
G1/2	<a href="#">7860 12 21</a>	22		63.5	70.5	25	45	12.5	0.152			


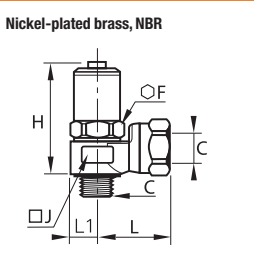

## 7861 Soft Start Fitting for Isolating Valve, Male/Female BSPP Thread

		Nickel-plated brass, NBR	C		F	H <sub>min</sub>	H <sub>max</sub>	J	L	L1	kg
			G1/4	<a href="#">7861 13 13</a>	22	54	62	24	31	12	0.147
			G3/8	<a href="#">7861 17 17</a>	22	55	62	24	31	12	0.139

## 7870 Soft Start Fitting for Control Valve, Male BSPP Thread

		Technical polymer, nickel-plated brass, NBR	ØD	C		F	H <sub>min</sub>	H <sub>max</sub>	J	L	L1	kg
			8	G1/4	<a href="#">7870 08 13</a>	17	54	61	20	35	10	0.066
			10	G1/4	<a href="#">7870 10 13</a>	22	55	62	25	41	12.5	0.114
				G3/8	<a href="#">7870 10 17</a>	22	55	62	25	41	12.5	0.117

## 7871 Soft Start Fitting for Control Valve, Male/Female BSPP Thread

		Nickel-plated brass, NBR	C		F	H <sub>min</sub>	H <sub>max</sub>	J	L	L1	kg
			G1/4	<a href="#">7871 13 13</a>	22	55	62	24	31	12	0.148
			G3/8	<a href="#">7871 17 17</a>	22	55	62	24	31	12	0.141

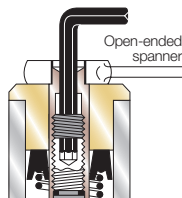
### Adjustment of the Filling Screw

Adjusting the screw to regulate the flow of air optimises the time taken to pressurise depending on the air volume to be refilled and the system requirements.

To adjust:

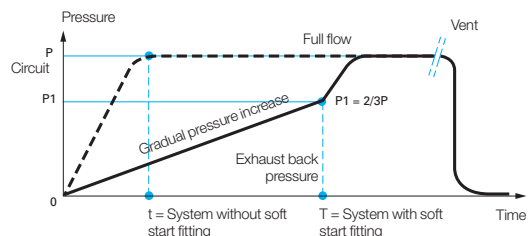
- immobilise the piston using a spanner
- adjust the screw with an Allen key
  - 1.5 mm key for 8 mm diameter
  - 2.5 mm key for 10 and 12 mm diameter

Max. tightening torque: 0.1 daN.m



### Cylinder Pressure Cycle

When the downstream pressure reaches 2/3 of the supply pressure, full flow is automatically established



# Pneumatic Sensor Fittings

The sensor detects the pressure drop when a cylinder reaches the end of its stroke. They produce a **pneumatic or electric output signal** when the pressure drop in the exhaust chamber of the cylinder goes below their back pressure threshold.

## Product Advantages

- Easy-to-Use** | Suited to changes of series: no adjustment to position detectors is necessary
- With Pneumatic Output** | Totally pneumatic installation  
2 possible installations:
  - Supplied with permanent pressure (P1): produces a pneumatic signal when the back pressure threshold is reached
  - Supplied from the control valve-cylinder circuit on the opposite side: no unexpected pneumatic signal (S) can appear during pressurisation due to the actuating pressure which supplies the sensor fitting (P1)
- With Electrical Output** | Combined electrical and pneumatic installation  
Installation with continuous electrical supply only (BU)  
Guarantees an electrical signal when the back pressure threshold is reached



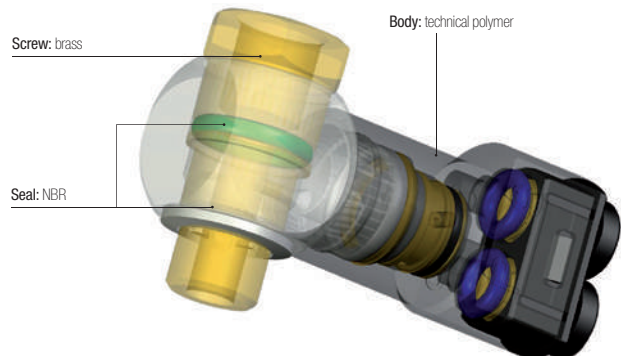
**Applications**

Robotics  
Textile  
Semi-Conductors  
Packaging  
Pneumatics

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	3 to 8 bar
<b>Working Temperature</b>	-15°C to +60°C
<b>Back Pressure</b>	0.85 to 1 bar
<b>Switching Time</b>	Model 7818: 3 ms
<b>Open/Closed Contact</b>	Model 7828: 2A / 0-48 V 2A / 250 V 50 Hz

### Component Materials



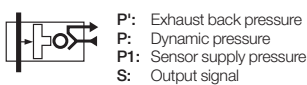
**Silicone-free**

### Regulations

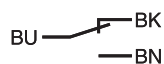
- DI: 2002/95/EC (RoHS)
- RG: 1907/2006 (REACH)
- DI: 97/23/EC (PED)

## Operation

### Pneumatic Installation Diagram

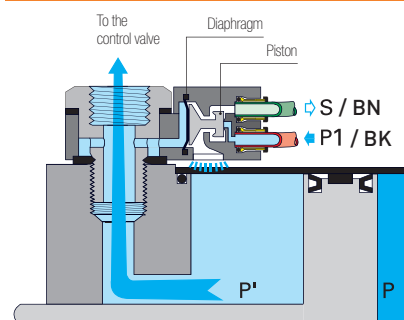


### Electrical Installation Diagram

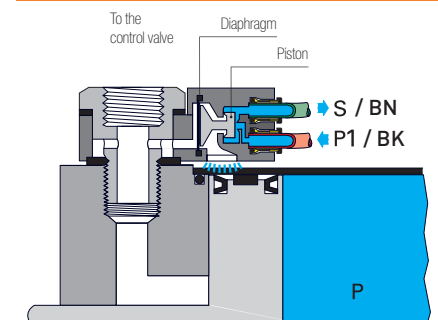


Connection via 3 core 0.5 mm<sup>2</sup> cable, 2 meters long.  
Contactor: 5A / 250 V ~ or 5W / 48V ==

### Cylinder in Operation



### Cylinder in Final Position

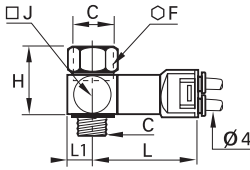


# Pneumatic Sensor Fittings

## 7818 Pneumatic Sensor Fitting, Male BSPP and Metric Thread



Technical polymer, zamak, brass, NBR



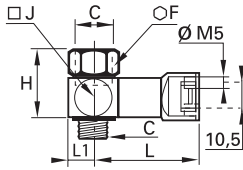
ØD	C		F	H	J	L	L1	kg
M5x0.8	7818 04 19*		8	16	11	43.5	5.5	0.025
G1/8	7818 04 10		14	23	16	44.5	8	0.043
G1/4	7818 04 13		17	28	19.5	46.5	10	0.061
G3/8	7818 04 17		22	29	23.5	49	12	0.083
G1/2	7818 04 21		27	30	31.5	52.5	16	0.125

\* Bolt zinc passivated steel

## 7818 Pneumatic Sensor, Male/Female BSPP Thread



Technical polymer, zamak, brass, NBR

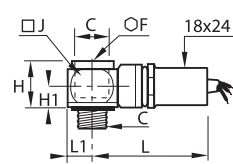


C		F	H	J	L	L1	kg
G1/8	7818 19 10	14	23	16	40.5	8	0.047
G1/4	7818 19 13	17	28	19.5	42.5	10	0.065

## 7828 Pneumatic/Electric Sensor, Male/Female BSPP and Metric Thread

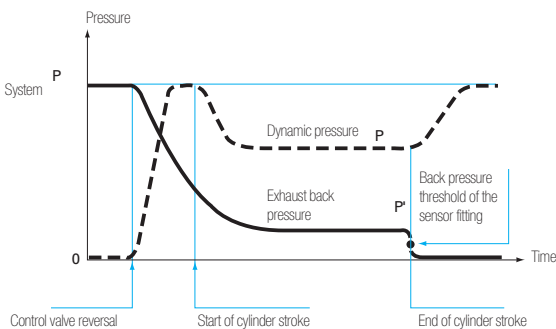


Technical polymer, brass, NBR



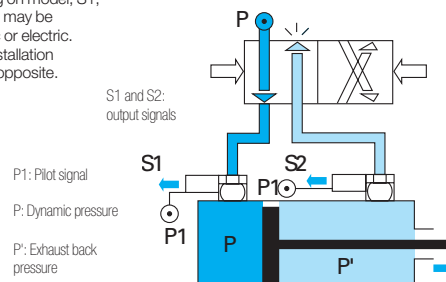
C		F	H	H1	J	L	L1	kg
M5x0.8	7828 00 19	8	20	10	11	49	5.5	0.120
G1/8	7828 00 10	6	20	10	16	52	8	0.131
G1/4	7828 00 13	8	20	10	21	54	10.5	0.145
G3/8	7828 00 17	10	22	12	28	57	14	0.182
G1/2	7828 00 21	12	26	14	33	58	16.5	0.206

### Cylinder Pressure Cycle



### Installation Diagram

Depending on model, S1, S2 and P1 may be pneumatic or electric. See the installation diagrams opposite.



S1 and S2: output signals  
 P1: Pilot signal  
 P: Dynamic pressure  
 P': Exhaust back pressure

# Pressure Regulators

Parker Legris pressure regulators **stabilise at the maximum determined value** the pressure delivered to the pneumatic equipment, whatever the fluctuations of the pressure upstream.

## Product Advantages

**Ergonomics** | Easy adjustment of the output pressure through the knurled screw  
 Lockable adjustment possible  
 Output pressure adjustment options marked on the screw

**Energy Savings** | Setting of the optimum pressure enables the equipment to function correctly  
 Installation in a manifold allows optimum output pressures to be delivered to specific parts of the circuit  
 Designed for applications where cylinder force needs to be controlled: marking, sleeving, crimping cylinders etc.



**Applications**  
 Robotics  
 Textile  
 Semi-Conductors  
 Packaging  
 Pneumatics

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air		
<b>Working Pressure</b>	Upstream pressure: 1 to 16 bar Downstream pressure: 1 to 8 bar		
<b>Working Temperature</b>	-10°C to +70°C		

<b>Max. Tightening Torques</b>	Threads	G1/8	G1/4	G3/8
	daN.m	0.4	0.5	0.6

### Component Materials



### Silicone-free

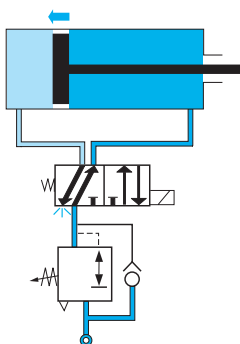
### Regulations

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

## Operation

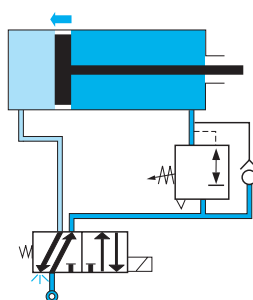
### Mounting Upstream of the Control Valve

Adjustment of the piston feed pressure in both directions

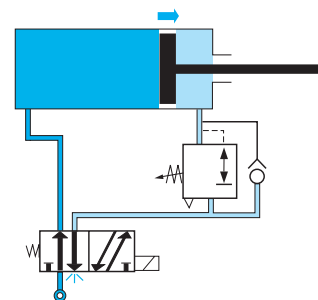


### Mounting Downstream of the Control Valve

**Phase 1:** adjustment of the piston speed in a single direction



**Phase 2:** in return direction, pressure is supplied through the control valve





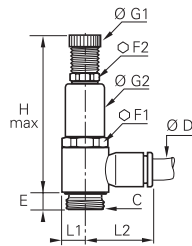
# Pressure Regulators

**7300**

Pressure Regulator, Male BSPP Thread



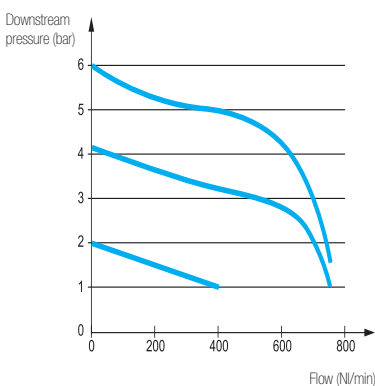
Technical polymer, nickel-plated brass, NBR



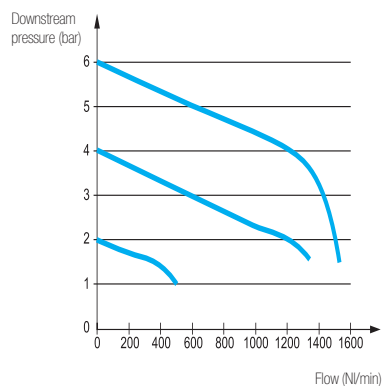
ØD	C		E	F1	F2	G1	G2	H <sub>max</sub>	L1	L2	kg
4	G1/8	<a href="#">7300 04 10</a>	4.5	17	13	14	17	65	7	18.5	0.047
	G1/8	<a href="#">7300 06 10</a>	4.5	17	13	14	17	65	7	20	0.047
6	G1/4	<a href="#">7300 06 13</a>	7.5	17	13	14	17	74.5	9.5	22	0.065
	G1/8	<a href="#">7300 08 10</a>	4.5	17	13	14	17	65	7	25	0.048
8	G1/4	<a href="#">7300 08 13</a>	7.5	17	13	14	17	74.5	9.5	27	0.066
	G3/8	<a href="#">7300 08 17</a>	8.5	22	17	18.5	22	84	11.5	28.5	0.121
10	G1/4	<a href="#">7300 10 13</a>	7.5	17	13	14	17	74.5	9.5	29	0.067
	G3/8	<a href="#">7300 10 17</a>	8.5	22	17	18.5	22	84	11.5	30.5	0.122

## Flow Characteristics at 7 bar (NI/min)

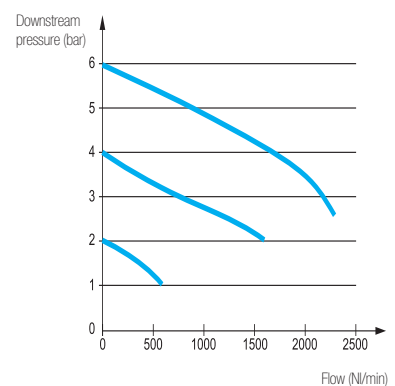
### G1/8 Models



### G1/4 Models



### G3/8 Models



# Pressure Reducers

Parker Legris pressure reducers are designed to **set the pressure** of a compressed air circuit to a determined value. They therefore enable **energy saving** by limiting the cylinder pressure.

## Product Advantages

### Design & Performance

- Optimisation of the pressure at the minimum values required to provide final force and energy consumption
- Manual adjustment protected by a plug
- Visual indication of the differential pressure by colour code

### Two Models Available

- Banjo: fitted directly on the control valve or terminal block
- In-line: fitted in the pipework, between the control valve and cylinder



Robotics  
Textile  
Semi-Conductors  
Packaging  
Pneumatics

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air				
<b>Working Pressure</b>	1 to 8 bar				
<b>Working Temperature</b>	-15°C to +60°C				
<b>Max. Tightening Torques for Models 7318 and 7471</b>	Threads	G1/8	G1/4	G3/8	G1/2
	daN.m	0.8	1.2	3	3.5

### Regulations

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

### Component Materials

Internal seals: NBR



Screw: nickel-plated brass

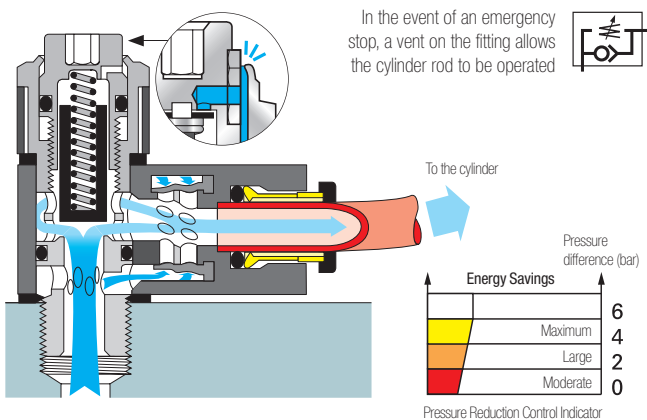
Sealing washer: technical polymer

Body:  
Models 7318-7471: zamak  
Models 7316-7416: nickel-plated, shot-blasted brass

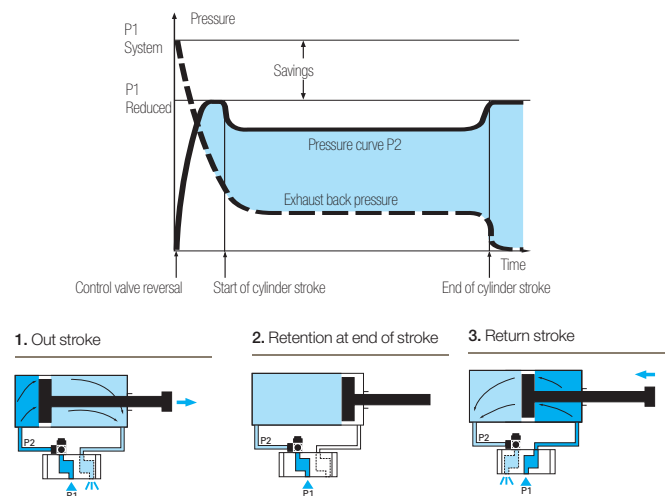
Silicone-free

## Operation

### Installation Diagram

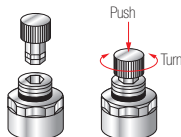


### Cylinder Pressure Cycle

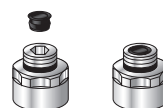


### Manual Adjustment

To ease access to the adjustment, Parker Legris has designed a plug-in manual control system.



To prevent access to the setting mechanism, a sealing plug may be used.



This may be removed if necessary as follows:

1. Pierce the centre
2. Remove the plug

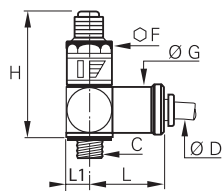


# Pressure Reducers

## 7318 Banjo Pressure Reducer, Male BSPP Thread



Zamak, nickel-plated brass, NBR

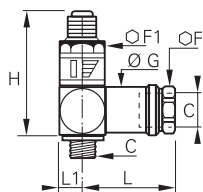


ØD	C		F	G	H <sub>min</sub>	H <sub>max</sub>	L	L1	kg
6	G1/8	<a href="#">7318 06 10</a>	19	20	49	57	43	10.5	0.137
	G1/4	<a href="#">7318 06 13</a>	19	20	49	57	43	10.5	0.137
8	G1/4	<a href="#">7318 08 13</a>	19	20	49	57	40	10.5	0.134
	G1/4	<a href="#">7318 10 13</a>	27	20	55	64	50	14	0.251
10	G3/8	<a href="#">7318 10 17</a>	27	26	55	94	50	14	0.253

## 7471 Banjo Pressure Reducer, Male/Female BSPP Thread



Zamak, nickel-plated brass, NBR

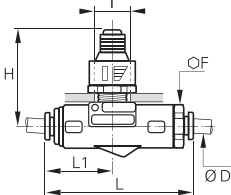


C		F	F1	G	H <sub>min</sub>	H <sub>max</sub>	L	L1	kg
G1/8	<a href="#">7471 10 10</a>	19	19	20	49	57	45	10.5	0.158
G1/4	<a href="#">7471 13 13</a>	19	19	20	49	57	45	10.5	0.149
G3/8	<a href="#">7471 17 17</a>	24	27	26	55	64	56	14	0.290
G1/2	<a href="#">7471 21 21</a>	30	30	31	75	86	63	16.5	0.502

## 7316 In-Line Tube-to-Tube Pressure Reducer



Nickel-plated brass, NBR

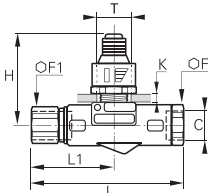


ØD		F	H <sub>min</sub>	H <sub>max</sub>	L	L1	ØT	kg
6	<a href="#">7316 06 00</a>	22	49	57	74	32	18.5	0.212
8	<a href="#">7316 08 00</a>	22	49	57	71	32	18.5	0.200
10	<a href="#">7316 10 00</a>	27	61	70	89	41	22.5	0.412

## 7416 In-Line Pressure Reducer, Female BSPP Thread



Nickel-plated brass, NBR



C		F	F1	H <sub>min</sub>	H <sub>max</sub>	K	L	L1	ØT	kg
G1/8	<a href="#">7416 10 10</a>	17	19	49	57	4	74	35	18.5	0.212
G1/4	<a href="#">7416 13 13</a>	17	19	49	57	4	83	44	18.5	0.214
G3/8	<a href="#">7416 17 17</a>	22	27	61	70	5	90	44	22.5	0.401
G1/2	<a href="#">7416 21 21</a>	27	30	75	86	7	119	61	22.5	0.651

## 7000 Sealing Plug for Pressure Reducer



Technical polymer

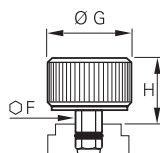


		G	kg
	<a href="#">7000 00 01</a>	8	0.001

## 7000 Manual Ratchet Control for Pressure Reducer



Nickel-plated brass, NBR



		F	G	H	kg
	<a href="#">7000 00 00</a>	6	22	15	0.040

# Snap Fittings

The snap fittings enable a **circuit to be isolated** without the need to vent the complete system. They are designed to facilitate repeated connections and disconnections in total safety.



## Product Advantages

### Performance & Safety

- Partial venting of systems while work is carried out
- Energy and time saving during maintenance operations
- Protection of individuals by maintaining pressure if necessary
- Audible click indicates connection
- Circuit identification by coloured rings (on request)

**Applications**

- Control Panels
- Robotics
- Semi-Conductors
- Packaging
- Pneumatics
- Automotive Process

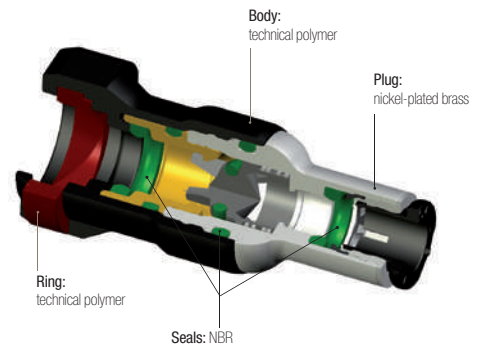
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	0 to 10 bar
<b>Working Temperature</b>	-20°C to +80°C
<b>Flow Characteristics at 6 bar</b>	DN 5 mm: 1000 NI/min DN 7 mm: 1900 NI/min

### Regulations

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

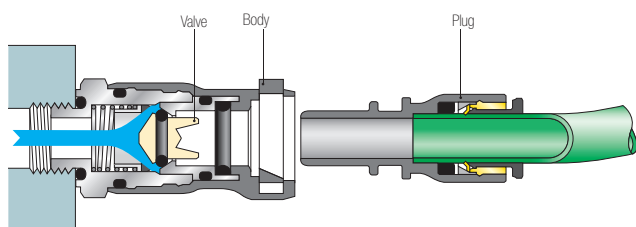
### Component Materials



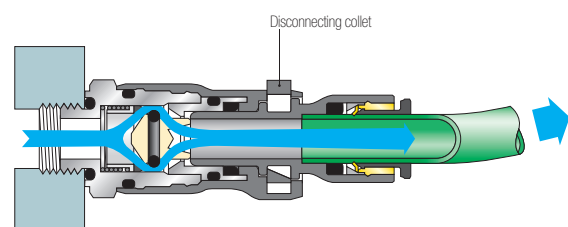
### Silicone-free

## Operation

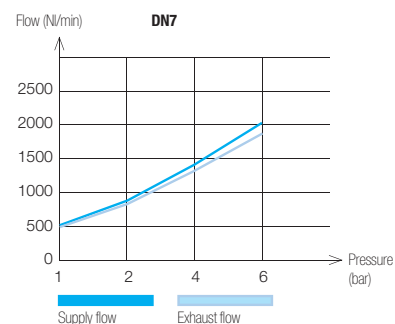
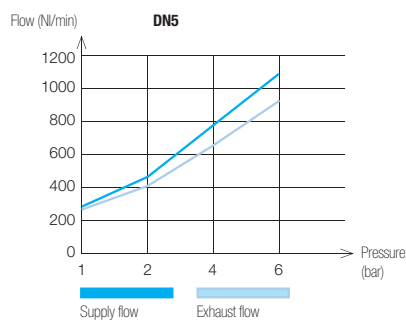
### Circuit Closed



### Circuit Open



### Flow Characteristics - Pressure Drop

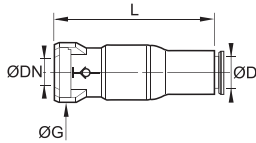


# Snap Fittings

## 7926 Body with Push-In Connection



Technical polymer, nickel-plated brass, NBR

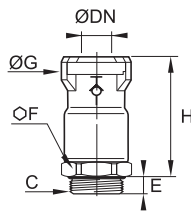


ØD	DN		G	L	kg
6	5	<a href="#">7926 05 06</a>	18.5	44	0.020
8	5	<a href="#">7926 05 08</a>	18.5	49	0.024
10	7.3	<a href="#">7926 07 10</a>	22	58.5	0.044

## 7921 Body with Male BSPP Thread



Technical polymer, nickel-plated brass, NBR

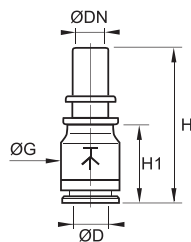


C	DN		E	F	G	H	kg
G1/8	5	<a href="#">7921 05 10</a>	5.5	16	18.5	31.5	0.022
G1/4	5	<a href="#">7921 05 13</a>	5.5	16	18.5	31.5	0.023
G1/4	7.3	<a href="#">7921 07 13</a>	5.5	20	22	37.5	0.039
G3/8	7.3	<a href="#">7921 07 17</a>	5.5	20	22	37.5	0.041

## 7960 Straight Probe, Push-In Connection



Technical polymer, NBR

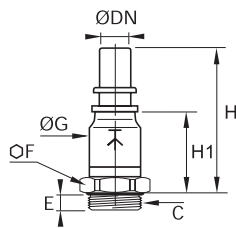


ØD	DN		G	H	H1	kg
6	5	<a href="#">7960 05 06</a>	13.5	36.5	17.5	0.007
8	5	<a href="#">7960 05 08</a>	13.5	37	18	0.003
10	7.3	<a href="#">7960 07 10</a>	16	41	20.5	0.004

## 7961 Straight Probe, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



C	DN		E	F	G	H	H1	kg
G1/8	5	<a href="#">7961 05 10</a>	5.5	13	13.5	46	27	0.017
G1/4	5	<a href="#">7961 05 13</a>	5.5	16	13.5	46	27	0.019
G1/4	7.3	<a href="#">7961 07 13</a>	5.5	16	16	51.5	31	0.025
G3/8	7.3	<a href="#">7961 07 17</a>	5.5	20	16	51.5	31	0.034

# Manually-Operated Valves

Manually-operated valves offer a **reliable** and **durable** system for opening and closing the circuit when the system has to be **switched frequently**. They provide a significant reduction in the time needed to work on pneumatic circuits.

## Product Advantages

### Manual Switch-Operated Valves

Downstream control supply provided by simply moving the lever  
 2 models available to provide the best solution for the system:

- 3/2: opening, closing, venting
- 2/2: opening, closing

Compact and ergonomic (can be positioned through 360°)  
 Push-in connections

### Valves with Sliding Sleeve

Uni-directional use ensures the downstream circuit is vented  
 Operated in the plane of the tube  
 Lightweight due to the use of aluminium  
 Ideal for complex installations in a restricted space  
 Immediate identification of the venting system by the colour (red)



**Applications**

Robotics  
 Conveyors  
 Textile  
 Plastics Engineering  
 Printing  
 Pneumatics  
 Packaging

## Technical Characteristics

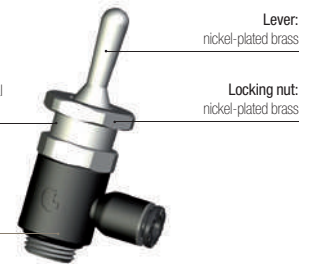
<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	0 to 10 bar Model 0669: 0 to 16 bar
<b>Working Temperature</b>	-10°C to +80°C Model 0669: -5°C to +70°C

### Component Materials

Seals: NBR

**Bolt:**  
 Manual switch-operated valve: nickel-plated brass with seal  
 Sleeve valve: nickel-plated brass

**Body:**  
 Manual switch-operated valve: technical polymer  
 Sleeve valve: nickel-plated brass



### Silicone-free

### Regulations

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

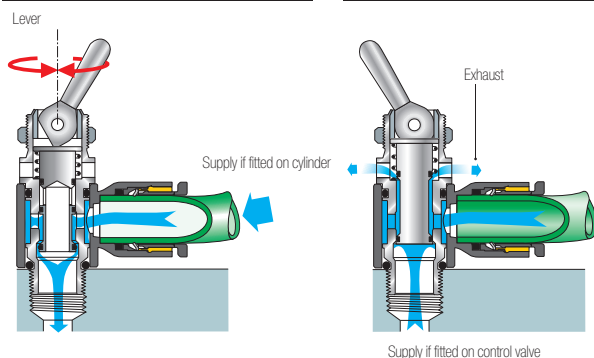
## Operation

### Switch-Operated Valves

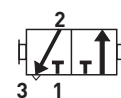


Open

Closed

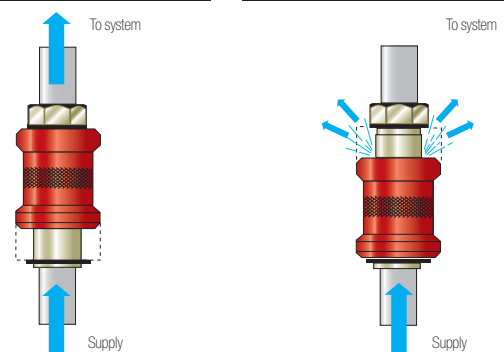


### Sleeve Valves



Open: downstream supply

Closed: downstream exhaust



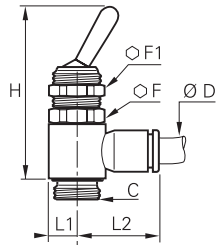
# Manually-Operated Valves

## 7800

### 3/2 Manual Switch-Operated Valve, Supply, Male BSPP and Metric Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	H	L1	L2	kg
4	M5x0.8	<a href="#">7800 04 19</a>	14	14	42	7	18.5	0.008
	G1/8	<a href="#">7800 04 10</a>	14	14	43	7	18.5	0.022
6	M5x0.8	<a href="#">7800 06 19</a>	14	14	42	7	18.5	0.009
	G1/8	<a href="#">7800 06 10</a>	14	14	43	7	20	0.023
8	G1/4	<a href="#">7800 06 13</a>	17	14	50.5	9	22	0.048
	G1/8	<a href="#">7800 08 10</a>	14	14	43	7	25	0.023
10	G1/4	<a href="#">7800 08 13</a>	17	14	50.5	9	27	0.048
	G1/4	<a href="#">7800 10 13</a>	17	14	50.5	9	29	0.048

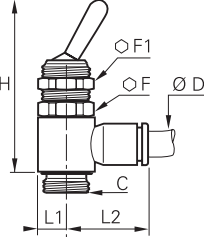
For part numbers 7800 04 19 and 7800 06 19, adaptor sealing is effected by a flat PTFE seal and tightening torque is maximum 0.16 daN.m.

## 7801

### 3/2 Manual Switch-Operated Valve, Control, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



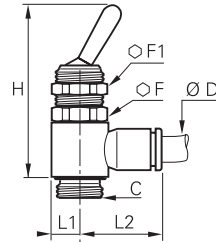
ØD	C		F	F1	H	L1	L2	kg
4	G1/8	<a href="#">7801 04 10</a>	14	14	43	7	18.5	0.023
6	G1/8	<a href="#">7801 06 10</a>	14	14	43	7	20	0.023
	G1/4	<a href="#">7801 06 13</a>	17	14	50.5	9	22	0.048
8	G1/8	<a href="#">7801 08 10</a>	14	14	43	7	25	0.026
	G1/4	<a href="#">7801 08 13</a>	17	14	50.5	9	27	0.049
10	G1/4	<a href="#">7801 10 13</a>	17	14	50.5	9	29	0.051

## 7802

### 2/2 Manual Switch-Operated Valve, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



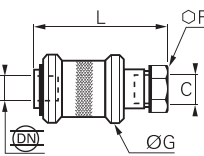
ØD	C		F	F1	H	L1	L2	kg
4	G1/8	<a href="#">7802 04 10</a>	14	14	43	7	18.5	0.023
	G1/8	<a href="#">7802 06 10</a>	14	14	43	7	20	0.024
6	G1/4	<a href="#">7802 06 13</a>	17	14	50.5	9	22	0.050
	G1/8	<a href="#">7802 08 10</a>	14	14	43	7	25	0.024
8	G1/4	<a href="#">7802 08 13</a>	17	14	50.5	9	27	0.052
	G1/4	<a href="#">7802 10 13</a>	17	14	50.5	9	29	0.052

## 0669

### 3/2 Sleeve Valve, Female BSPP and Metric Thread



Nickel-plated brass, aluminium, NBR



C	DN		F	G	L	kg
M5x0.8	2.5	<a href="#">0669 02 19</a>	10	14	30.5	0.012
G1/8	4	<a href="#">0669 04 10</a>	14	25	48	0.050
G1/4	7	<a href="#">0669 07 13</a>	19	30	58	0.096
G3/8	10	<a href="#">0669 10 17</a>	22	35	68	0.154
G1/2	14	<a href="#">0669 14 21</a>	27	40	75	0.210
G3/4	19	<a href="#">0669 19 27</a>	32	50	83	0.324

# Metal Quick Exhaust Valves

This range of metal quick exhaust valves is offered in nickel-plated brass, aluminium and stainless steel. These valves, which are suitable for **any environment**, increase the **return speed** of the cylinder rod by allowing the exhaust to pass directly to atmosphere.

## Product Advantages

### Time Saving & Compact

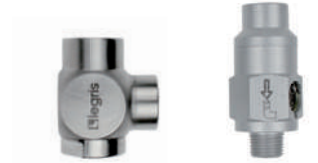
Reduction in cycle times: return speed improved  
 Dimensions optimised for space reduction  
 Exhaust silencer incorporated on some models  
 Excellent exhaust capacity  
 Robust

### Nickel-Plated Brass or Stainless Steel

Ideal for applications in restrictive environments  
 Orientation as required  
 Many installation options and choice of silencer  
 Designed without retention areas to optimise frequent cleaning operations (stainless steel)

### Aluminium

Protection of individuals through low noise emissions  
 Lightweight and robust  
 Silencer integrated for greater compactness



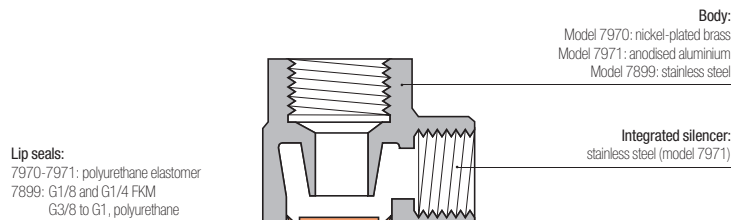
**Applications**

- Robotics
- Conveyors
- Textile
- Plastics Engineering
- Printing
- Pneumatics
- Packaging

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	<b>7970:</b> 0.7 to 10 bar <b>7971 and 7899:</b> 2 to 10 bar
<b>Working Temperature</b>	<b>7970:</b> -20°C to +70°C <b>7971:</b> -10°C to +70°C <b>7899:</b> Threads G1/8 and G1/4: -10°C to +120°C Threads G3/8 to G1: -20°C to +180°C

### Component Materials



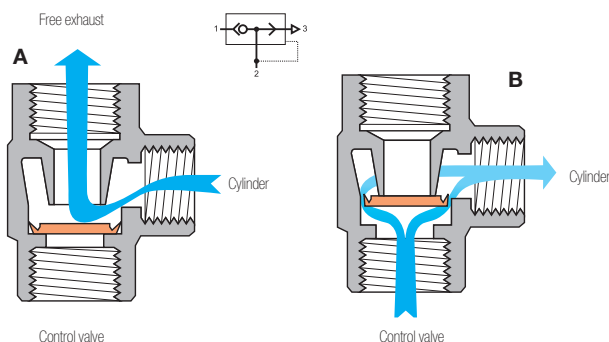
### Silicone-free

### Regulations

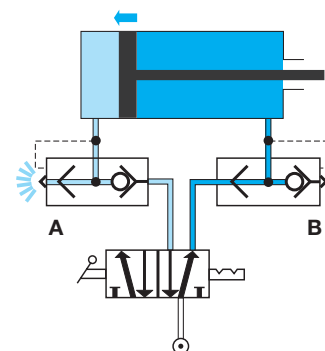
DI: 2002/95/EC (RoHS)  
 RG: 1907/2006 (REACH)  
 DI: 97/23/EC (PED)

## Operation

### Mounted on Cylinder



### Installation Diagram





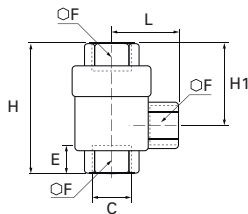
# Metal Quick Exhaust Valves

**7970**

Elbow Quick Exhaust Valve, Female BSPP and Metric Thread



Nickel-plated brass



C		E	F	H	H1	L	kg
M5x0.8	<a href="#">7970 19 19</a>	5	10	24.8	15.6	4	0.028
G1/8	<a href="#">7970 10 10</a>	7.5	14	42	28	8	0.084
G1/4	<a href="#">7970 13 13</a>	11	19	53	34.5	11	0.146
G3/8	<a href="#">7970 17 17</a>	12	21	58	36	12	0.149
G1/2	<a href="#">7970 21 21</a>	14	26	71	44	14	0.314
G3/4	<a href="#">7970 27 27</a>	16	32	86	52	18	0.449
G1	<a href="#">7970 34 34</a>	19	38	94	56	19	0.530

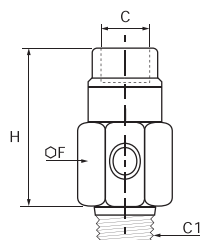
Noise level:  
7971 10 10 : 70 dBa  
7971 13 13 : 70 dBa  
7971 17 17 : 72 dBa  
7971 21 21 : 88 dBa

**7971**

Elbow Quick Exhaust Valve, Male BSPT/Female BSPP Thread



Treated aluminium



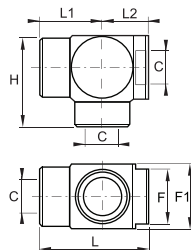
C	C1		F	H	kg
G1/8	R1/8	<a href="#">7971 10 10</a>	18	51	0.013
G1/4	R1/4	<a href="#">7971 13 13</a>	18	49	0.018
G3/8	R3/8	<a href="#">7971 17 17</a>	27	56	0.048
G1/2	R1/2	<a href="#">7971 21 21</a>	34	70	0.086

**7899**

Quick Exhaust Valve, Female BSPP Thread



Stainless steel 316L



C	DN		F	F1	H	L	L1	L2	kg
G1/8	7	<a href="#">7899 00 10</a>	17	22	31.5	37.5	21	16.5	0.097
G1/4	7	<a href="#">7899 00 13</a>	17	22	31.5	37.5	21	16.5	0.083
G3/8	9	<a href="#">7899 00 17</a>	22	26	37	44.5	25.5	19	0.139
G1/2	12	<a href="#">7899 00 21</a>	27	32	45	54	31	23	0.240
G3/4	18	<a href="#">7899 00 27</a>	38	46	65	79	44	35	0.795
G1	18	<a href="#">7899 00 34</a>	38	46	65	79	44	35	0.674

To complement our exhaust valves 7970 and 7899, you will find a full range of silencers on the following pages.

# Silencers

Silencers are designed for installation on exhaust circuits **to reduce the noise levels** of equipment while operating, thus improving user comfort.

## Product Advantages

### Variety of Applications

- 2 versions incorporating flow control regulation
- Extremely compact models available
- Polyethylene: excellent balance between exhaust flow rate and noise reduction
- Sintered bronze: robust and economic
- 316L stainless steel: increased chemical resistance and mechanical strength



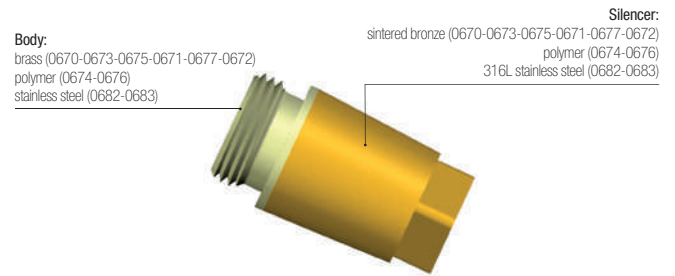
Robotics  
Textile  
Semi-Conductors  
Packaging  
Pneumatics

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	Polyethylene: 0 to 10 bar Sintered bronze: 0 to 12 bar 316L stainless steel: 0 to 12 bar
<b>Working Temperature</b>	Polyethylene: -10°C to +80°C Sintered bronze: -20°C to +150°C 316L stainless steel: -20°C to +180°C

### Component Materials



Silicone-free

### Regulations

- DI: 2002/95/EC (RoHS)
- RG: 1907/2006 (REACH)
- DI: 97/23/EC (PED)
- DI: 2003/10/EC (Noise Directive)
- Requirement to use ear protection if exposure > 8 hours (85 dBA)
- RG: 1910.95(b) (OSHA)
- Requirement to use ear protection if exposure > 8 hours (90 dBA)


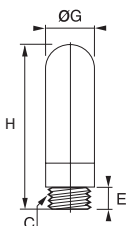

### Flow and Noise Levels for Silencers 0672 and 0676

0672	Number of Turns						Noise Level in dBA at 6 bar and 350 NI/min
	0	1	2	3	4	5	
0672 00 10	0	200	600	740	-	-	81
0672 00 13	0	300	650	1280	-	-	82
0672 00 17	0	450	950	1300	1500	-	83
0672 00 21	0	830	1430	1800	2100	2220	83


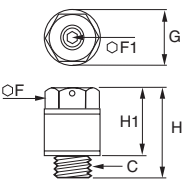

0676	Number of Turns										Noise Level in dBA at 6 bar and 350 NI/min
	0	1	2	3	4	5	6	7	8	9	
0676 00 10	0	30	90	210	335	370	390	390	395	395	82
0676 00 13	0	22	25	50	340	750	940	980	1000	1025	84
0676 00 19	0	22	69	97	125	143	-	-	-	-	81
0676 00 17	0	518	1147	1716	2153	2571	2823	2930	-	-	85
0676 00 21		814	1849	2880	4087	5044	5236	-	-	-	86

# Silencers


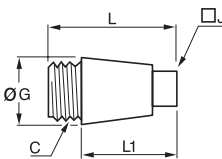

## 0674 Polymer Silencer, Male BSPP and Metric Thread

	<p>Technical polymer</p> 	<b>C</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		M5x0.8	<a href="#">0674 00 19</a>	4	6.5	23	0.003
		G1/8	<a href="#">0674 00 10</a>	6	12.5	34	0.002
		G1/4	<a href="#">0674 00 13</a>	7	15.5	42.5	0.003
		G3/8	<a href="#">0674 00 17</a>	11.5	18.5	67.5	0.007
		G1/2	<a href="#">0674 00 21</a>	11	23.5	78	0.010
		G3/4	<a href="#">0674 00 27</a>	15.5	38.5	131	0.035
		G1	<a href="#">0674 00 34</a>	19.5	49	160	0.056


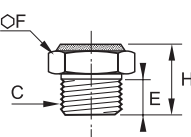

## 0676 Flow Control Polymer Silencer, Male BSPP and Metric Thread

	<p>Technical polymer</p> 	<b>C</b>		<b>F</b>	<b>F1</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>kg</b>
		M5x0.8	<a href="#">0676 00 19</a>	8	1.5	9.2	16	11	0.008
		G1/8	<a href="#">0676 00 10</a>	13	2.5	15	20.5	14.5	0.003
		G1/4	<a href="#">0676 00 13</a>	15	4	18	29	22	0.007
		G3/8	<a href="#">0676 00 17</a>	20	6	24	38	30	0.018
		G1/2	<a href="#">0676 00 21</a>	25	8	30	50	40	0.045


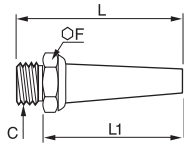

## 0670 Threaded Silencer, Male BSPP Thread

	<p>Sintered bronze, brass</p> 	<b>C</b>		<b>G</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		G1/8	<a href="#">0670 00 10</a>	12	7	22	17	0.007
		G1/4	<a href="#">0670 00 13</a>	15	9	27	21	0.015
		G3/8	<a href="#">0670 00 17</a>	19	11	35	28	0.028
		G1/2	<a href="#">0670 00 21</a>	23	13	43	34	0.049
		G3/4	<a href="#">0670 00 27</a>	30	17	55	45	0.091
		G1	<a href="#">0670 00 34</a>	37	21	65	53	0.152

## 0673 Compact Silencer, Male BSPP and Metric Thread


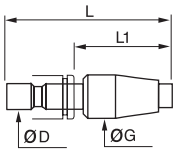

	<p>Sintered bronze, brass</p> 	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		M5x0.8	<a href="#">0673 00 19</a>	4	7	8	0.001
		G1/8	<a href="#">0673 00 10</a>	8	14	14	0.008
		G1/4	<a href="#">0673 00 13</a>	8	17	14	0.012
		G3/8	<a href="#">0673 00 17</a>	10	22	18	0.020
		G1/2	<a href="#">0673 00 21</a>	12	27	21	0.042

## 0675 Threaded Silencer, Male BSPP and Metric Thread


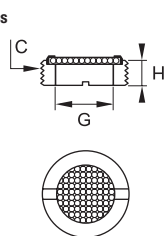

	<p>Sintered bronze, brass</p> 	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		M5x0.8	<a href="#">0675 00 19</a>	7	16	12	0.002
		M7x1	<a href="#">0675 00 55</a>	11	25	19	0.005
		G1/8	<a href="#">0675 00 10</a>	14	42	34	0.014
		G1/4	<a href="#">0675 00 13</a>	17	52	44	0.022
		G3/8	<a href="#">0675 00 17</a>	22	54	44	0.037
		G1/2	<a href="#">0675 00 21</a>	27	65	53	0.072

# Silencers


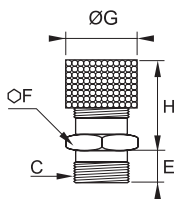

## 0671 Push-In Silencer

	Sintered bronze, nickel-plated brass 	<b>ØD</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		4	<a href="#">0671 04 00</a>	13	41.5	24.5	0.015
		6	<a href="#">0671 06 00</a>	15	48	29	0.024
		8	<a href="#">0671 08 00</a>	15	49.5	29.5	0.025
		10	<a href="#">0671 10 00</a>	19.5	68	43.5	0.052
		12	<a href="#">0671 12 00</a>	20	68.5	43	0.052


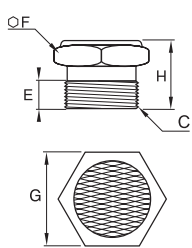

## 0677 Miniature Silencer, Male BSPP Thread

	Brass 	<b>C</b>		<b>G</b>	<b>H</b>	<b>kg</b>
		G1/8	<a href="#">0677 00 10</a>	6	6	0.002
		G1/4	<a href="#">0677 00 13</a>	8	6	0.003
		G3/8	<a href="#">0677 00 17</a>	11	7	0.006
		G1/2	<a href="#">0677 00 21</a>	14	8	0.010
		G3/4	<a href="#">0677 00 27</a>	19	11	0.019
		G1	<a href="#">0677 00 34</a>	25	10	0.025


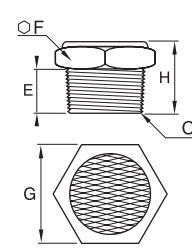

## 0672 Flow Control Silencer, Male BSPP Thread

	Sintered bronze, nickel-plated brass 	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H min</b>	<b>H max</b>	<b>kg</b>
		G1/8	<a href="#">0672 00 10</a>	8	14	14	17	21	0.017
		G1/4	<a href="#">0672 00 13</a>	8	17	17	20	24	0.029
		G3/8	<a href="#">0672 00 17</a>	10	22	22	20	28	0.058
		G1/2	<a href="#">0672 00 21</a>	12	27	27	28	37	0.094

## 0682 Compact Silencer, Male BSPP Thread

	Stainless steel 316L 	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		G1/8	<a href="#">0682 00 10</a>	8	7	14	15	0.007
		G1/4	<a href="#">0682 00 13</a>	8	7	17	15	0.011
		G3/8	<a href="#">0682 00 17</a>	10	8	22	18	0.019
		G1/2	<a href="#">0682 00 21</a>	12	10	27	22	0.038
		G3/4	<a href="#">0682 00 27</a>	15	12	32	27	0.063
		G1	<a href="#">0682 00 34</a>	18	14	38	32	0.117

## 0683 Compact Silencer, Male NPT Thread

	Stainless steel 316L 	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		NPT1/8	<a href="#">0683 00 11</a>	7	7	14	14	0.007
		NPT1/4	<a href="#">0683 00 14</a>	11	7	17	18	0.014
		NPT3/8	<a href="#">0683 00 18</a>	11	8	22	19	0.021
		NPT1/2	<a href="#">0683 00 22</a>	15	10	27	25	0.043



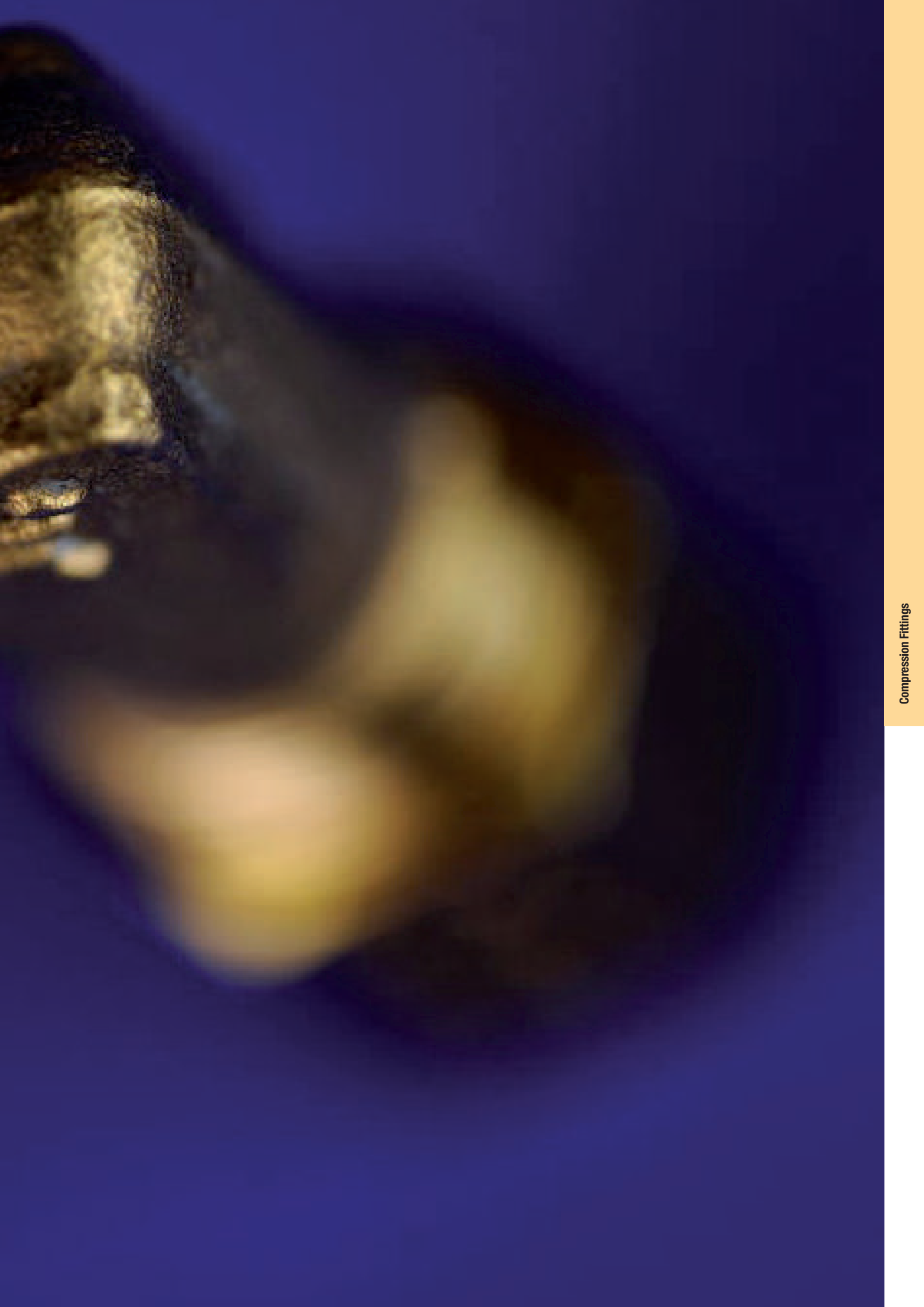
# Compression Fittings

**Brass Compression Fittings**

**Stainless Steel Compression Fittings**

**PL Nickel-Plated Brass Spigot Fittings**





# Compression Fittings

## Brass Compression Fittings

(P. 5-5)



**Fluids:** compressed air, non-corrosive industrial fluids

**Materials:** forged or machined brass

**Pressure:** 550 bar

**Temperature:** -40°C to +250°C

**Ø metric:** 4 mm to 28 mm

## Stainless Steel Compression Fittings

(P. 5-31)



**Fluids:** compressed air, coolants, industrial and corrosive fluids

**Materials:** 316L stainless steel

**Pressure:** 400 bar

**Temperature:** -40°C to +250°C

**Ø metric:** 6 mm to 16 mm

## PL Nickel-Plated Brass Spigot Fittings

(P. 5-41)



**Fluids:** compressed air, compatible industrial fluids

**Materials:** forged or machined nickel-plated brass

**Pressure:** 40 bar

**Temperature:** -40°C to +100°C

**Ø metric:** 4 mm to 14 mm

## Compression Fitting Part Numbers

**0105 14 27 99**

### Item Type

01XX: brass  
18XX: stainless steel

### Suffix

39: bonded seal  
40: treated steel  
60: nut  
70: polymer nut  
99: chemical nickel

### Ø

04 = 4 mm  
06 = 6 mm  
...  
20 = 20 mm  
28 = 28 mm

### Thread

10 = 1/8  
13 = 1/4  
...  
21 = 1/2  
27 = 3/4

## PL Fitting Part Numbers

**F3BPL 8/10 -1/4**

### Item Type

FBPL  
F3BPL  
HBPL  
WBPL  
...

### Ø

2.7/4  
4/6  
6/8  
7.5/10  
8/10  
10/12  
11/14

### Thread

BSPT & NPT:  
1/8  
1/4  
3/8  
...  
Metric:  
M10  
M12



# Brass Compression Fitting Range

## Brass Fittings

### Stud Fittings

<b>0105</b> BSPT Page 5-9	<b>0105</b> NPT Page 5-9	<b>0101</b> BSPP/Metric Page 5-10	<b>0101..39</b> BSPP Page 5-10	<b>0101</b> Metric Page 5-11	<b>0114</b> BSPP Page 5-11	<b>0109</b> BSPT Page 5-12	<b>0109</b> NPT Page 5-12
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<b>0199</b> BSPP Page 5-12	<b>0108</b> BSPT Page 5-13	<b>0103</b> BSPT Page 5-13	<b>0118</b> BSPP Page 5-14	<b>0118..39</b> BSPP Page 5-14	<b>0119</b> BSPP Page 5-15	<b>0119..39</b> BSPP Page 5-15
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### Tube-to-Tube Fittings

<b>0106</b> Page 5-15	<b>0113</b> Page 5-16	<b>0116</b> Page 5-16	<b>0102</b> Page 5-16	<b>0104</b> Page 5-17	<b>0142</b> Page 5-17	<b>0107</b> Page 5-17
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### Complementary Fittings

<b>0166</b> Page 5-20	<b>0124</b> Page 5-21	<b>0124..40</b> Page 5-21	<b>0111</b> Page 5-21	<b>0110</b> Page 5-22	<b>0110..40</b> Page 5-22	<b>0110..60</b> Page 5-22	<b>0110..70</b> Page 5-22
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## Self-Fastening Hose Barb Connectors

<b>0132</b> Page 5-25	<b>0133..39</b> Page 5-25	<b>0134</b> Page 5-25
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## Accessories

<b>0122</b> Page 5-26	<b>0165</b> Page 5-26	<b>0126</b> Page 5-27	<b>0125</b> Page 5-27	<b>0220</b> Page 5-27	<b>0220..39</b> Page 5-27	<b>0120</b> Page 5-28	<b>0112</b> Page 5-28	<b>0128..39</b> Page 5-29	<b>0151..39</b> Page 5-29	<b>0168..39</b> Page 5-29
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<b>0127</b> Page 5-30
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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**

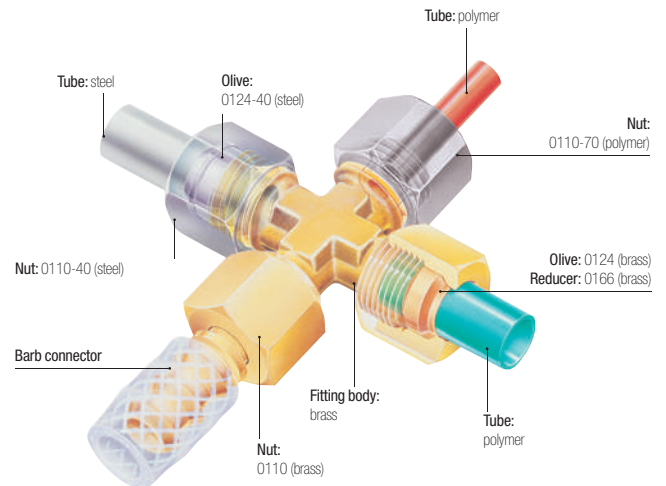
- Pneumatics
- Cooling
- Automotive Process
- Lubrication
- Fluid Transmission
- Packaging
- Industrial Machinery

## Technical Characteristics

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

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

### Component Materials



### Silicone-free

### 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

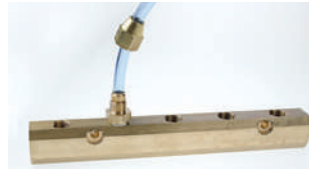


For metal tubing, de-burr the tube prior to connection. Tube bending should be done before connection.



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).

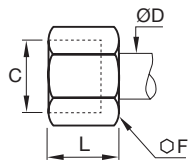


It is recommended to use an insert in order to prevent tube creeping (diameter > 14mm)

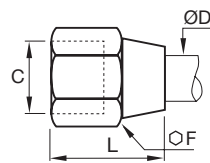
## Recommended Nut Tightening Torque

### 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

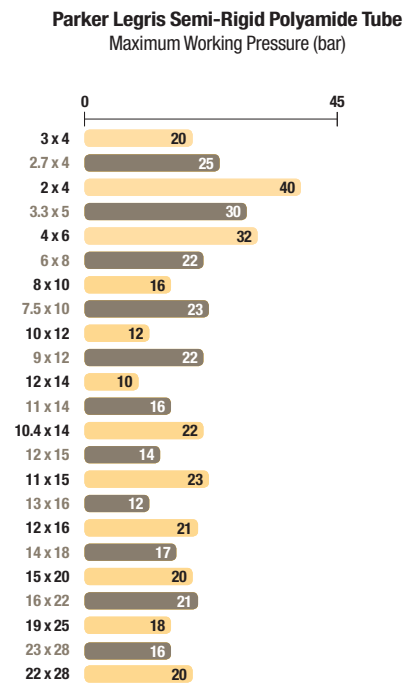
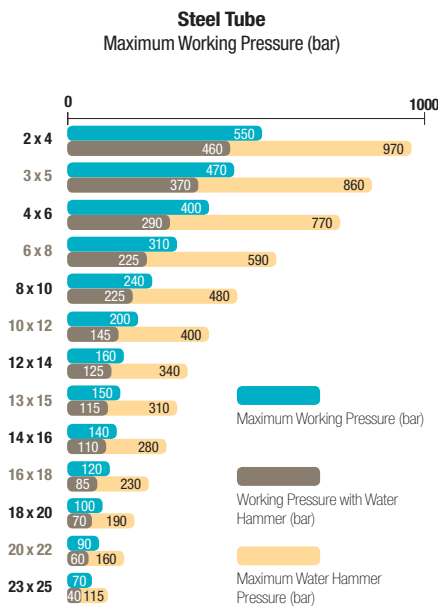
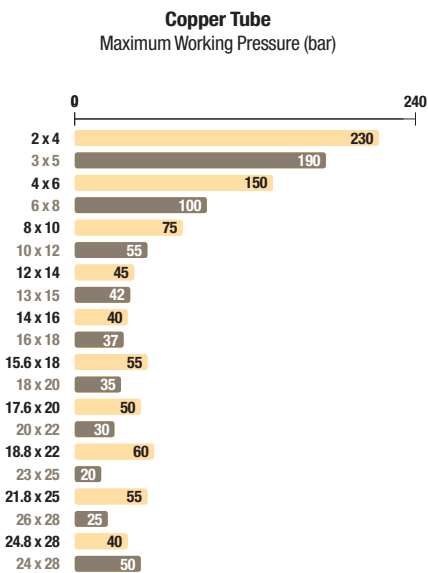
**Polyamide tube:** semi-rigid  
For rigid polyamide tube, multiply the figures in this table by 1.8.

## Recommended Tube-Fitting Assembly Configurations

Assembled using Parker Legris brass olive and nut.

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

Assembled using Parker Legris brass olive and nut.



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

## Working Pressure Coefficients for Semi-Rigid Polyamide Tubing

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

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

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

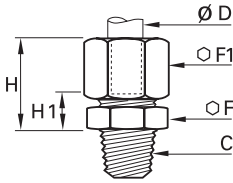
# Brass Compression Fittings

0105

Stud Fitting, Male BSPT Thread



Brass



ØD	C		F	F1	H <sub>max</sub>	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	0.022
	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	0.031
8	R1/8	0105 08 10	13	14	19.5	7	0.020
	R1/4	0105 08 13	14	14	19.5	7	0.025
10	R3/8	0105 08 17	17	14	20.5	8	0.032
	R1/8	0105 10 10	17	19	24	9	0.043
12	R1/4	0105 10 13	17	19	24	9	0.047
	R3/8	0105 10 17	17	19	24	9	0.048
14	R1/2	0105 10 21	22	19	25	10	0.067
	R1/4	0105 12 13	19	22	24	9	0.059
15	R3/8	0105 12 17	19	22	24	9	0.060
	R1/2	0105 12 21	22	22	25	10	0.076
16	R1/4	0105 14 13	22	24	25	8	0.068
	R3/8	0105 14 17	22	24	25	8	0.068
18	R1/2	0105 14 21	22	24	26	9	0.080
	R3/4	0105 14 27	27	24	27	10	0.107
20	R3/8	0105 15 17	22	24	25	8	0.065
	R1/2	0105 15 21	22	24	26	9	0.076
22	R1/4	0105 16 13	24	27	27	9.5	0.092
	R3/8	0105 16 17	24	27	27	9.5	0.092
24	R1/2	0105 16 21	24	27	27	9.5	0.099
	R3/4	0105 16 27	27	27	28	10.5	0.123
26	R1/2	0105 18 21	27	30	30	10.5	0.127
	R3/4	0105 18 27	27	30	30	10.5	0.138
28	R1/2	0105 20 21	30	32	32	11	0.148
	R3/4	0105 20 27	30	32	32	11	0.157
30	R1/2	0105 22 21	32	36	33	11	0.187
	R3/4	0105 22 27	32	36	33	11	0.196
32	R1	0105 22 34	36	36	33	11	0.227
	R3/4	0105 25 27	36	41	36	11	0.261
34	R1	0105 25 34	36	41	36	11	0.278
	R3/4	0105 28 27	41	42	36	11	0.274
36	R1	0105 28 34	41	42	36	11	0.283

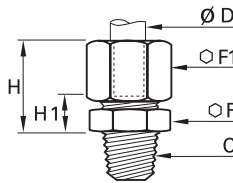
Metric taper threads or Briggs (NPT threads) are available by special order, subject to minimum quantities.

0105

Stud Fitting, Male NPT Thread



Brass



ØD	C		F	F1	H <sub>max</sub>	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	0.048
	NPT3/8	0105 10 18	17	19	24	9	0.048
12	NPT1/2	0105 10 22	22	19	25	10	0.066

Brass Compression Fittings

Compression Fittings

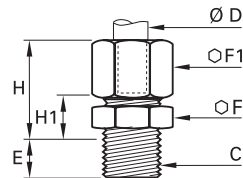
# Brass Compression Fittings

## 0101

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



Brass, technical polymer



ØD	C		E	F	F1	H <sub>max</sub>	H1	kg
4	M5x0.8	<a href="#">0101 04 19</a>	5	10	10	16.5	8	0.011
	G1/8	<a href="#">0101 04 10</a>	6.5	13	10	16.5	8	0.016
5	G1/8	<a href="#">0101 05 10</a>	6.5	13	12	17.5	8.5	0.018
	G1/8	<a href="#">0101 06 10</a>	6.5	13	13	18	8.5	0.020
6	G1/4	<a href="#">0101 06 13</a>	8	17	13	18	9.5	0.030
	G1/8	<a href="#">0101 08 10</a>	6.5	13	14	19	8.5	0.021
8	G1/4	<a href="#">0101 08 13</a>	8	17	14	19.5	9	0.032
	G3/8	<a href="#">0101 08 17</a>	11	22	14	20	10.5	0.044
10	G1/4	<a href="#">0101 10 13</a>	8	17	19	24	11	0.049
	G3/8	<a href="#">0101 10 17</a>	11	22	19	24	11.5	0.061
12	G1/4	<a href="#">0101 12 13</a>	8	19	22	24	11	0.062
	G3/8	<a href="#">0101 12 17</a>	11	22	22	24	11.5	0.069
14	G1/2	<a href="#">0101 12 21</a>	12	27	22	24	12	0.089
	G3/8	<a href="#">0101 14 17</a>	11	22	24	25	10.5	0.074
15	G1/2	<a href="#">0101 14 21</a>	12	27	24	25	11	0.094
	G3/8	<a href="#">0101 15 17</a>	11	22	24	25	10.5	0.071
16	G1/2	<a href="#">0101 15 21</a>	12	27	24	25	11	0.093
	G3/8	<a href="#">0101 16 17</a>	11	22	27	27	12	0.092
18	G1/2	<a href="#">0101 16 21</a>	12	27	27	27	12.5	0.109
	G3/4	<a href="#">0101 18 27</a>	13	32	30	29.5	13	0.152
20	G3/4	<a href="#">0101 20 27</a>	13	32	32	31	13	0.164
	G3/4	<a href="#">0101 22 27</a>	13	32	36	32	13	0.195
22	G1	<a href="#">0101 22 34</a>	15	41	36	31	13.5	0.259
	G3/4	<a href="#">0101 25 27</a>	13	36	41	35.5	13	0.261
25	G1	<a href="#">0101 25 34</a>	15	41	41	35.5	13	0.169
	G1	<a href="#">0101 28 34</a>	15	41	42	35.5	13.5	0.300

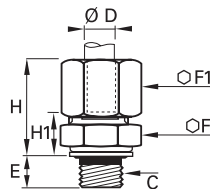
With pre-assembled captive sealing washer  
Sealing washers 0602 are shown in Chapter 9.

## 0101..39

### Stud Fitting, with Bi-Material Seal, Male BSPP



Brass, zinc-plated steel with NBR seal



ØD	C		E	F	F1	H <sub>max</sub>	H1	kg
4	G1/8	<a href="#">0101 04 10 39</a>	5.5	13	10	17.5	9	0.016
5	G1/8	<a href="#">0101 05 10 39</a>	5.5	13	12	18.5	9.5	0.019
	G1/8	<a href="#">0101 06 10 39</a>	5.5	13	13	19	9.5	0.020
6	G1/4	<a href="#">0101 06 13 39</a>	7	17	13	19	10.5	0.030
	G1/8	<a href="#">0101 08 10 39</a>	5.5	13	14	20	9.5	0.022
8	G1/4	<a href="#">0101 08 13 39</a>	7	17	14	20.5	10	0.032
	G3/8	<a href="#">0101 08 17 39</a>	9.5	22	14	21.5	12	0.045
10	G1/4	<a href="#">0101 10 13 39</a>	7	17	19	25	12	0.048
	G3/8	<a href="#">0101 10 17 39</a>	9.5	22	19	25.5	13	0.062
12	G1/4	<a href="#">0101 12 13 39</a>	7	19	22	25	12	0.063
	G3/8	<a href="#">0101 12 17 39</a>	9.5	22	22	25	13	0.071
14	G1/2	<a href="#">0101 12 21 39</a>	10.5	27	22	25	13.5	0.091
	G3/8	<a href="#">0101 14 17 39</a>	9.5	22	24	26.5	12	0.075
15	G1/2	<a href="#">0101 14 21 39</a>	10.5	27	24	26.5	12.5	0.095
	G3/8	<a href="#">0101 15 17 39</a>	9.5	22	24	26.5	12	0.073
16	G1/2	<a href="#">0101 15 21 39</a>	10.5	27	24	26.5	12.5	0.095
	G3/8	<a href="#">0101 16 17 39</a>	9.5	22	27	28.5	13.5	0.092
18	G1/2	<a href="#">0101 16 21 39</a>	10.5	27	27	28.5	14	0.111
	G1/2	<a href="#">0101 18 21 39</a>	10.5	27	30	31	14	0.129
20	G3/4	<a href="#">0101 18 27 39</a>	11.5	32	30	31	14.5	0.155
	G3/4	<a href="#">0101 20 27 39</a>	11.5	32	32	32.5	14.5	0.164
22	G3/4	<a href="#">0101 22 27 39</a>	11.5	32	36	32.5	14.5	0.197
	G1	<a href="#">0101 22 34 39</a>	13	41	36	33	15.5	0.259
25	G1	<a href="#">0101 25 34 39</a>	13	41	41	37.5	15.5	0.309
	G1	<a href="#">0101 28 34 39</a>	13	41	42	37.5	15.5	0.301

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

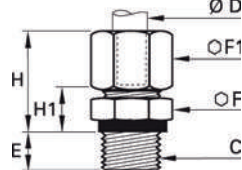
# Brass Compression Fittings

## 0101

### Stud Fitting, Male Metric Thread



Brass



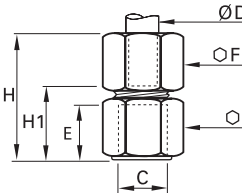
ØD	C		E	F	F1	H max	H1	kg
4	M7x1	<a href="#">0101 04 55</a>	6.5	10	10	16.5	7.5	0.012
	M8x1	<a href="#">0101 04 56</a>	6.5	11	10	16.5	7.5	0.013
5	M8x1	<a href="#">0101 05 56</a>	6.5	11	12	17.5	8	0.016
	M10x1	<a href="#">0101 05 60</a>	6.5	14	12	17.5	8.5	0.020
6	M10x1	<a href="#">0101 06 60</a>	6.5	14	13	18	8.5	0.021
	M10x1.5	<a href="#">0101 06 62</a>	6.5	14	13	18	8.5	0.021
8	M12x1	<a href="#">0101 08 65</a>	8	17	14	19.5	9	0.029
	M12x1.25	<a href="#">0101 08 66</a>	8	17	14	19.5	9	0.029
	M13x1.25	<a href="#">0101 08 68</a>	8	17	14	19.5	9	0.030
10	M14x1.25	<a href="#">0101 10 70</a>	8	17	19	24	11	0.047
	M14x1.5	<a href="#">0101 10 71</a>	8	17	19	24	11	0.047
	M16x1.25	<a href="#">0101 10 74</a>	9	19	19	24	11	0.051
	M16x1.5	<a href="#">0101 10 75</a>	9	19	19	24	11	0.051
12	M18x1.5	<a href="#">0101 10 78</a>	9	22	19	24	11.5	0.060
	M16x1.25	<a href="#">0101 12 74</a>	9	19	22	24	11	0.061
	M16x1.5	<a href="#">0101 12 75</a>	9	19	22	24	11	0.061
14	M18x1.5	<a href="#">0101 12 78</a>	9	22	22	24	11.5	0.070
	M20x1.5	<a href="#">0101 14 80</a>	10	24	24	25	11	0.084
15	M18x1.5	<a href="#">0101 15 78</a>	9	22	24	25	10.5	0.071
	M20x1.5	<a href="#">0101 16 80</a>	10	24	27	27	12.5	0.102
16	M22x1.5	<a href="#">0101 16 82</a>	10	27	27	27	12.5	0.111
	M22x1.5	<a href="#">0101 18 82</a>	10	27	30	29.5	12.5	0.129
18	M22x1.5	<a href="#">0101 18 82</a>	10	27	30	29.5	12.5	0.129
	M24x1.5	<a href="#">0101 18 83</a>	11	30	30	29.5	13	0.142

## 0114

### Stud Fitting, Female BSPP Thread



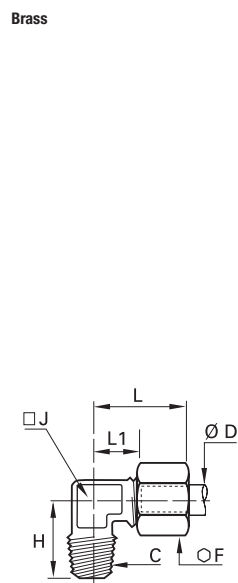
Brass



ØD	C		E	F	F1	H max	H1	kg
4	G1/8	<a href="#">0114 04 10</a>	9.5	14	10	26	16.5	0.020
	G1/4	<a href="#">0114 04 13</a>	13.5	17	10	30	20.5	0.030
5	G1/8	<a href="#">0114 05 10</a>	9.5	14	12	28	17	0.023
	G1/4	<a href="#">0114 05 13</a>	13.5	17	12	31	21	0.033
6	G1/8	<a href="#">0114 06 10</a>	9.5	14	13	28	17	0.025
	G1/4	<a href="#">0114 06 13</a>	13.5	17	13	32	21	0.034
8	G3/8	<a href="#">0114 06 17</a>	14	22	13	32	21.5	0.051
	G1/8	<a href="#">0114 08 10</a>	9.5	14	14	29	16.5	0.026
10	G1/4	<a href="#">0114 08 13</a>	13.5	17	14	33	20.5	0.036
	G3/8	<a href="#">0114 08 17</a>	14	22	14	34	21	0.052
12	G1/4	<a href="#">0114 10 13</a>	13.5	17	19	37	21.5	0.052
	G3/8	<a href="#">0114 10 17</a>	14	22	19	37	22	0.068
14	G1/2	<a href="#">0114 10 21</a>	18.5	27	19	42	26.5	0.099
	G1/4	<a href="#">0114 12 13</a>	13.5	19	22	36	20.5	0.069
15	G3/8	<a href="#">0114 12 17</a>	14	22	22	37	22	0.078
	G1/2	<a href="#">0114 12 21</a>	18.5	27	22	42	26.5	0.109
16	G1/4	<a href="#">0114 14 13</a>	13.5	22	24	36	18.5	0.085
	G3/8	<a href="#">0114 14 17</a>	14	22	24	38	21	0.048
18	G1/2	<a href="#">0114 14 21</a>	18.5	27	24	43	25.5	0.113
	G3/8	<a href="#">0114 15 17</a>	14	22	24	38	21	0.078
20	G1/2	<a href="#">0114 15 21</a>	18.5	27	24	43	25.5	0.109
	G1/4	<a href="#">0114 16 13</a>	13.5	24	27	36	18	0.107
22	G3/8	<a href="#">0114 16 17</a>	14	24	27	38	20.5	0.106
	G1/2	<a href="#">0114 16 21</a>	18.5	27	27	44	26	0.127
25	G3/8	<a href="#">0114 18 17</a>	14	27	30	39	19.5	0.140
	G1/2	<a href="#">0114 18 21</a>	18.5	27	30	45	26	0.144
20	G3/4	<a href="#">0114 18 27</a>	19.5	32	30	46	27	0.165
	G3/8	<a href="#">0114 20 17</a>	14	30	32	38	18	0.161
22	G1/2	<a href="#">0114 20 21</a>	18.5	30	32	44.5	24	0.173
	G3/4	<a href="#">0114 20 27</a>	19.5	32	32	47	26.5	0.170
25	G3/4	<a href="#">0114 22 27</a>	19.5	32	36	48	26.5	0.204
	G3/4	<a href="#">0114 25 27</a>	19.5	36	41	50.5	26	0.297

# Brass Compression Fittings

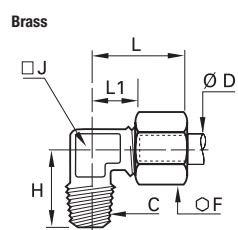
## 0109 Stud Elbow, Male BSPT Thread



ØD	C		F	H	J	L max	L1	kg
4	R1/8	<a href="#">0109 04 10</a>	10	17	8	19	9.5	0.016
	R1/4	<a href="#">0109 04 13</a>	10	20	10	19	11	0.026
5	R1/8	<a href="#">0109 05 10</a>	12	17.5	8	21	11	0.019
	R1/4	<a href="#">0109 05 13</a>	12	21.5	10	22	12	0.028
6	R1/8	<a href="#">0109 06 10</a>	13	18	8	22	11	0.021
	R1/4	<a href="#">0109 06 13</a>	13	21.5	10	22	12	0.031
8	R1/8	<a href="#">0109 08 10</a>	14	18.5	10	28	15	0.028
	R3/8	<a href="#">0109 08 17</a>	14	24	12	28	15	0.044
10	R1/4	<a href="#">0109 10 13</a>	19	25	12	30	14.5	0.052
	R3/8	<a href="#">0109 10 17</a>	19	25.5	12	30	14.5	0.060
	R1/2	<a href="#">0109 10 21</a>	19	32	19	36	21	0.109
12	R1/4	<a href="#">0109 12 13</a>	22	26	15	30	15	0.074
	R3/8	<a href="#">0109 12 17</a>	22	27	15	30	15	0.077
14	R1/2	<a href="#">0109 12 21</a>	22	32	19	36	21	0.116
	R3/8	<a href="#">0109 14 17</a>	24	30	19	35	18	0.105
15	R1/2	<a href="#">0109 14 21</a>	24	32	19	35	18	0.112
	R3/8	<a href="#">0109 15 17</a>	24	30	19	35	18	0.099
16	R1/2	<a href="#">0109 15 21</a>	24	32	19	35	18	0.106
	R3/8	<a href="#">0109 16 17</a>	27	30	19	39	21	0.120
18	R1/2	<a href="#">0109 16 21</a>	27	33.5	19	39	21	0.130
	R3/4	<a href="#">0109 16 27</a>	27	36.5	23	41	23	0.189
20	R1/2	<a href="#">0109 18 21</a>	30	35.5	23	41	21.5	0.182
	R3/4	<a href="#">0109 18 27</a>	30	36.5	23	41	21.5	0.199
22	R1/2	<a href="#">0109 20 21</a>	32	36.5	23	42	21.5	0.181
	R3/4	<a href="#">0109 20 27</a>	32	38	23	42	21.5	0.200
25	R3/4	<a href="#">0109 22 27</a>	36	40	27	50	30	0.288
	R1	<a href="#">0109 22 34</a>	36	44	27	50	30	0.342
28	R3/4	<a href="#">0109 25 27</a>	41	43	27	54	30	0.325
	R1	<a href="#">0109 25 34</a>	41	44	27	54	30	0.367
28	R3/4	<a href="#">0109 28 27</a>	42	46	32	54	30	0.402
	R1	<a href="#">0109 28 34</a>	42	48	32	54	30	0.384

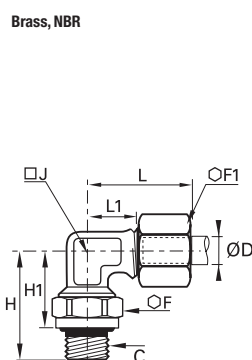
Metric taper threads or Briggs (NPT threads) are available by special order, subject to minimum quantities.

## 0109 Stud Elbow, Male NPT Thread



ØD	C		F	H	J	L max	L1	kg
6	NPT1/8	<a href="#">0109 06 11</a>	13	18	8	22	11	0.021
	NPT1/4	<a href="#">0109 06 14</a>	13	21.5	10	22	12	0.030
8	NPT1/8	<a href="#">0109 08 11</a>	14	18.5	10	28	15	0.028
	NPT1/4	<a href="#">0109 08 14</a>	14	22	10	28	15	0.033
10	NPT1/4	<a href="#">0109 10 14</a>	19	25	12	30	14.5	0.053

## 0199 Stud Orientable Elbow, Male BSPP Thread



ØD	C		F	F1	H	H1	H1 max	J	L max	L1	kg
4	G1/8	<a href="#">0199 04 10</a>	14	10	23	16	17	8	19	9.5	0.023
	G1/4	<a href="#">0199 04 13</a>	19	10	30.5	22	23.5	10	19	11	0.043
6	G1/8	<a href="#">0199 06 10</a>	14	13	23	16	17	8	22	11	0.027
	G1/4	<a href="#">0199 06 13</a>	19	13	30.5	22	23.5	10	22	12	0.047
8	G1/8	<a href="#">0199 08 10</a>	14	14	24	17	18	10	28	15	0.033
	G1/4	<a href="#">0199 08 13</a>	19	14	30.5	22	23.5	10	28	15	0.051
10	G3/8	<a href="#">0199 08 17</a>	22	14	33.5	24	25.5	12	28	15	0.065
	G1/4	<a href="#">0199 10 13</a>	19	19	31	22.5	24	12	30	14.5	0.068
14	G3/8	<a href="#">0199 10 17</a>	22	19	33.5	24	25.5	12	30	14.5	0.079
	G1/2	<a href="#">0199 10 21</a>	27	19	40	29.5	31	19	37	22	0.138
18	G3/8	<a href="#">0199 14 17</a>	22	24	35.5	26	27.5	19	35	18	0.119
	G1/2	<a href="#">0199 14 21</a>	27	24	40	29.5	31	19	35	18	0.141
22	G1/2	<a href="#">0199 18 21</a>	27	30	40	29	30.5	23	41	21.5	0.187
	G3/4	<a href="#">0199 18 27</a>	32	30	43.5	32	33.5	23	41	21.5	0.222
28	G3/4	<a href="#">0199 22 27</a>	32	36	45.5	34	36	32	51	31	0.382
	G1	<a href="#">0199 22 34</a>	41	36	54	40.5	43	32	51	31	0.408
28	G1	<a href="#">0199 28 34</a>	41	42	54	40.5	43	32	54	30	0.420

The body will orientate for positioning purposes



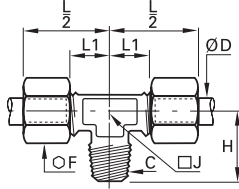
# Brass Compression Fittings

**0108**

Stud Branch Tee, Male BSPT Thread



Brass



ØD	C		F	H	J	L1	L/2	kg
4	R1/8	<a href="#">0108 04 10</a>	10	17	8	9.5	19	0.025
5	R1/8	<a href="#">0108 05 10</a>	12	17.5	8	11	21	0.017
6	R1/8	<a href="#">0108 06 10</a>	13	18	8	11	22	0.032
	R1/4	<a href="#">0108 06 13</a>	13	21.5	10	16	27	0.047
8	R1/8	<a href="#">0108 08 10</a>	14	18.5	10	15	28	0.045
	R3/8	<a href="#">0108 08 17</a>	14	22	10	15	28	0.050
10	R1/4	<a href="#">0108 10 13</a>	19	25	12	14.5	30	0.084
	R3/8	<a href="#">0108 10 17</a>	19	25.5	12	14.5	30	0.090
12	R1/4	<a href="#">0108 12 13</a>	22	26	15	15	30	0.116
	R3/8	<a href="#">0108 12 17</a>	22	27	15	15	30	0.117
14	R3/8	<a href="#">0108 14 17</a>	24	30	19	18	35	0.153
	R1/2	<a href="#">0108 14 21</a>	24	32	19	18	35	0.168
15	R3/8	<a href="#">0108 15 17</a>	24	30	19	18	35	0.145
	R1/2	<a href="#">0108 15 21</a>	24	32	19	18	35	0.155
16	R3/8	<a href="#">0108 16 17</a>	27	30	19	21	39	0.190
	R1/2	<a href="#">0108 16 21</a>	27	33.5	19	21	39	0.203
18	R1/2	<a href="#">0108 18 21</a>	30	35.5	23	21.5	41	0.265
	R3/4	<a href="#">0108 18 27</a>	30	36.5	23	21.5	41	0.292
20	R3/4	<a href="#">0108 20 27</a>	32	38	23	21.5	42	0.298
22	R3/4	<a href="#">0108 22 27</a>	36	40	27	29	50	0.435
	R1	<a href="#">0108 22 34</a>	36	44	27	29	50	0.466

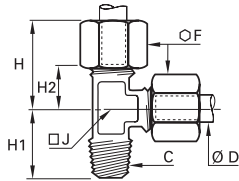
Metric taper threads or Briggs (NPT threads) are available by special order, subject to minimum quantities.

**0103**

Stud Run Tee, Male BSPT Thread



Brass



ØD	C		F	H max	H1	H2	J	kg
4	R1/8	<a href="#">0103 04 10</a>	10	19	17	9.5	8	0.025
5	R1/8	<a href="#">0103 05 10</a>	12	21	17.5	11	8	0.030
6	R1/8	<a href="#">0103 06 10</a>	13	22	18	11	8	0.033
	R1/4	<a href="#">0103 06 13</a>	13	27	21.5	16	10	0.048
8	R1/8	<a href="#">0103 08 10</a>	14	28	18.5	15	10	0.045
	R1/4	<a href="#">0103 08 13</a>	14	28	22	15	10	0.050
10	R3/8	<a href="#">0103 08 17</a>	14	28	24	15	12	0.061
	R1/4	<a href="#">0103 10 13</a>	19	30	25	14.5	12	0.084
12	R3/8	<a href="#">0103 10 17</a>	19	30	25.5	14.5	12	0.092
	R1/4	<a href="#">0103 12 13</a>	22	30	26	15	15	0.114
14	R3/8	<a href="#">0103 12 17</a>	22	30	27	15	15	0.120
	R3/8	<a href="#">0103 14 17</a>	24	35	30	18	19	0.161
15	R1/2	<a href="#">0103 14 21</a>	24	35	32	18	19	0.169
	R3/8	<a href="#">0103 15 17</a>	24	35	30	18	19	0.148
16	R1/2	<a href="#">0103 15 21</a>	24	35	32	18	19	0.158
	R3/8	<a href="#">0103 16 17</a>	27	39	30	21	19	0.192
18	R1/2	<a href="#">0103 16 21</a>	27	39	33.5	21	19	0.199
	R1/2	<a href="#">0103 18 21</a>	30	41	35.5	21.5	23	0.269
20	R3/4	<a href="#">0103 18 27</a>	30	41	36.5	21.5	23	0.282
	R3/4	<a href="#">0103 20 27</a>	32	42	38	21.5	23	0.298
22	R3/4	<a href="#">0103 22 27</a>	36	50	40	29	27	0.435

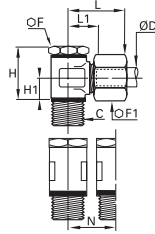
Metric taper threads or Briggs (NPT threads) are available by special order, subject to minimum quantities.

# Brass Compression Fittings

## 0118 Single Banjo, with Captive Sealing Washer, Male BSPP Thread



Brass, technical polymer



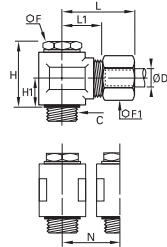
ØD	C		F	F1	H	H1	L <sub>max</sub>	L1	N	kg
4	G1/8	<a href="#">0118 04 10</a>	14	10	24	9.5	24	14.5	17.5	0.038
	G1/8	<a href="#">0118 05 10</a>	14	12	24	9.5	25	14.5	17.5	0.041
5	G1/4	<a href="#">0118 05 13</a>	17	12	25	10	26	16	21	0.058
	G1/8	<a href="#">0118 06 10</a>	14	13	24	9.5	25	14.5	17.5	0.041
6	G1/4	<a href="#">0118 06 13</a>	17	13	25	10	26	16	21	0.056
	G1/8	<a href="#">0118 08 10</a>	14	14	24	9.5	28	15.5	17.5	0.054
8	G1/4	<a href="#">0118 08 13</a>	17	14	25	10	28	15.5	21	0.057
	G3/8	<a href="#">0118 08 17</a>	22	14	32	13	30	18	26.5	0.111
10	G1/4	<a href="#">0118 10 13</a>	17	19	31	13	34	19	23	0.120
	G3/8	<a href="#">0118 10 17</a>	22	19	32	13	34	19	26.5	0.129
12	G1/4	<a href="#">0118 12 13</a>	17	22	34	14.5	34	19	23	0.126
	G3/8	<a href="#">0118 12 17</a>	22	22	35	14.5	34	19	26.5	0.133
14	G1/4	<a href="#">0118 14 13</a>	17	24	37	16	37	20.5	28	0.154
	G3/8	<a href="#">0118 14 17</a>	22	24	38	16	37	20.5	28	0.195
15	G1/2	<a href="#">0118 14 21</a>	27	24	40	16	38	20.5	32.5	0.208
	G3/8	<a href="#">0118 15 17</a>	22	24	38	16	37	20.5	28	0.190
16	G1/2	<a href="#">0118 15 21</a>	27	24	40	16	38	20.5	32.5	0.198
	G1/2	<a href="#">0118 16 21</a>	27	27	42	16	38	21	32.5	0.221
18	G1/2	<a href="#">0118 18 21</a>	27	30	46	19.5	43	24.5	36	0.366
	G3/4	<a href="#">0118 20 27</a>	32	32	49	20	44	24.5	39	0.403
22	G3/4	<a href="#">0118 22 27</a>	32	36	53	22	45	24.5	39	0.459

With pre-assembled captive sealing 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 <sub>max</sub>	L1	N	kg
4	G1/8	<a href="#">0118 04 10 39</a>	14	10	23	9.5	24	14.5	17.5	0.038
	G1/8	<a href="#">0118 05 10 39</a>	14	12	23	9.5	25	14.5	17.5	0.041
5	G1/4	<a href="#">0118 05 13 39</a>	17	12	24	10	26	16	21	0.064
	G1/8	<a href="#">0118 06 10 39</a>	14	13	23	9.5	25	14.5	17.5	0.042
6	G1/4	<a href="#">0118 06 13 39</a>	17	13	24	10	26	16	21	0.057
	G1/8	<a href="#">0118 08 10 39</a>	14	14	23	9.5	28	15.5	17.5	0.055
8	G1/4	<a href="#">0118 08 13 39</a>	17	14	24	10	28	15.5	21	0.058
	G3/8	<a href="#">0118 08 17 39</a>	22	14	31.5	13.5	30	18	26.5	0.113
10	G1/4	<a href="#">0118 10 13 39</a>	17	19	30	13	34	19	23	0.118
	G3/8	<a href="#">0118 10 17 39</a>	22	19	31.5	13.5	34	19	26.5	0.128
12	G1/4	<a href="#">0118 12 13 39</a>	17	22	33	14.5	34	19	23	0.128
	G3/8	<a href="#">0118 12 17 39</a>	22	22	34.5	15	34	19	26.5	0.140
14	G1/4	<a href="#">0118 14 13 39</a>	17	24	36	16	37	20.5	28	0.189
	G3/8	<a href="#">0118 14 17 39</a>	22	24	37.5	16.5	37	20.5	28	0.198
15	G1/2	<a href="#">0118 14 21 39</a>	27	24	39	16.5	38	20.5	32.5	0.205
	G3/8	<a href="#">0118 15 17 39</a>	22	24	37.5	16.5	37	20.5	28	0.389
16	G1/2	<a href="#">0118 15 21 39</a>	27	24	40	16.5	38	20.5	32.5	0.202
	G1/2	<a href="#">0118 16 21 39</a>	27	27	40	16.5	38	21	32.5	0.225
18	G1/2	<a href="#">0118 18 21 39</a>	27	30	47	20	43	24.5	36	0.369
	G3/4	<a href="#">0118 20 27 39</a>	32	32	50	20.5	44	24.5	39	0.394
22	G3/4	<a href="#">0118 22 27 39</a>	32	36	54	22.5	45	24.5	39	0.462

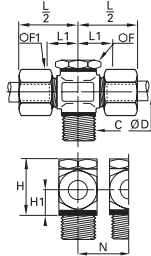
With bi-material sealing washer  
Bi-material sealing washers, part number 0139, can be found in Chapter 9.

# Brass Compression Fittings

## 0119 Double Banjo with Captive Sealing Washer, Male BSPP Thread



Brass, technical polymer



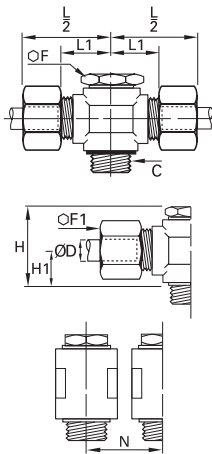
ØD	C		F	F1	H	H1	L1	L/2	N	kg
4	G1/8	<a href="#">0119 04 10</a>	14	10	24	9.5	14.5	24	17.5	0.049
	G1/8	<a href="#">0119 06 10</a>	14	13	24	9.5	14.5	25	17.5	0.056
6	G1/4	<a href="#">0119 06 13</a>	17	13	25	10	16	26.5	21	0.038
	G1/8	<a href="#">0119 08 10</a>	14	14	24	9.5	15.5	28	17.5	0.069
8	G1/4	<a href="#">0119 08 13</a>	17	14	25	10	15.5	28	21	0.074
	G3/8	<a href="#">0119 08 17</a>	22	14	32	13	18	30.5	26.5	0.140
10	G1/4	<a href="#">0119 10 13</a>	17	19	31	13	19	34	23	0.156
	G3/8	<a href="#">0119 10 17</a>	22	19	32	13	19	34	26.5	0.165
12	G1/4	<a href="#">0119 12 13</a>	17	22	34	14.5	19	34	23	0.180
	G3/8	<a href="#">0119 12 17</a>	22	22	35	14.5	19	34	26.5	0.182
14	G1/4	<a href="#">0119 14 13</a>	17	24	37	16	20.5	37.5	28	0.246
	G3/8	<a href="#">0119 14 17</a>	22	24	38	16	20.5	37.5	28	0.247
	G1/2	<a href="#">0119 14 21</a>	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



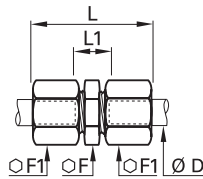
ØD	C		F	F1	H	H1	L1	L/2	N	kg
4	G1/8	<a href="#">0119 04 10 39</a>	14	10	23	9.5	14.5	24	17.5	0.050
	G1/8	<a href="#">0119 05 10 39</a>	14	12	23	9.5	14.5	25	17.5	0.049
5	G1/4	<a href="#">0119 05 13 39</a>	17	12	24	10	126	26	21	0.072
	G1/8	<a href="#">0119 06 10 39</a>	14	13	23	9.5	14.5	25	17.5	0.056
6	G1/4	<a href="#">0119 06 13 39</a>	17	13	24	10	16	26	21	0.071
	G1/8	<a href="#">0119 08 10 39</a>	14	14	23	9.5	15.5	28	17.5	0.072
8	G1/4	<a href="#">0119 08 13 39</a>	17	14	24	10	15.5	28	21	0.080
	G3/8	<a href="#">0119 08 17 39</a>	22	14	31.5	13.5	18	30	26.5	0.118
10	G1/4	<a href="#">0119 10 13 39</a>	17	19	30	13	19	34	23	0.156
	G3/8	<a href="#">0119 10 17 39</a>	22	19	31.5	13.5	19	34	26.5	0.167
12	G1/4	<a href="#">0119 12 13 39</a>	17	22	33	14.5	19	34	23	0.180
	G3/8	<a href="#">0119 12 17 39</a>	22	22	34.5	15	19	34	26.5	0.183
14	G1/4	<a href="#">0119 14 13 39</a>	17	24	36	16	20.5	37	28	0.248
	G3/8	<a href="#">0119 14 17 39</a>	22	24	37.5	16.5	20.5	37	28	0.247
15	G1/2	<a href="#">0119 14 21 39</a>	27	24	39	16.5	20.5	38	32.5	0.262
	G3/8	<a href="#">0119 15 17 39</a>	22	24	37.5	16.5	20.5	37	28	0.246
18	G1/2	<a href="#">0119 15 21 39</a>	27	24	40	16.5	20.5	38	32.5	0.251
	G1/2	<a href="#">0119 18 21 39</a>	27	30	47	20	24.5	43	36	0.469
20	G3/4	<a href="#">0119 20 27 39</a>	32	32	50	20.5	24.5	44	39	0.638
	G3/4	<a href="#">0119 22 27 39</a>	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




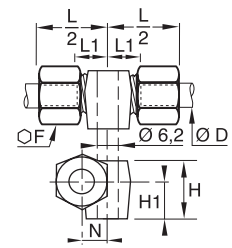

Brass




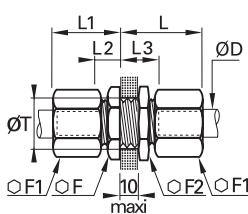

ØD		F	F1	L <sub>max</sub>	L1	kg
4	<a href="#">0106 04 00</a>	10	10	28	10	0.016
5	<a href="#">0106 05 00</a>	11	12	31	11	0.023
6	<a href="#">0106 06 00</a>	11	13	32	11	0.026
8	<a href="#">0106 08 00</a>	13	14	36	10	0.031
10	<a href="#">0106 10 00</a>	17	19	42	13	0.070
12	<a href="#">0106 12 00</a>	19	22	42	13	0.092
14	<a href="#">0106 14 00</a>	22	24	45	11	0.104
15	<a href="#">0106 15 00</a>	22	24	45	11	0.097
16	<a href="#">0106 16 00</a>	24	27	48	13	0.141
18	<a href="#">0106 18 00</a>	27	30	53	14	0.186
20	<a href="#">0106 20 00</a>	30	32	56	14	0.211
22	<a href="#">0106 22 00</a>	32	36	60	14	0.283
25	<a href="#">0106 25 00</a>	36	41	64	14	0.396
28	<a href="#">0106 28 00</a>	41	42	64	14	0.399

# Brass Compression Fittings


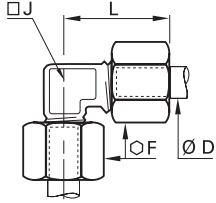

## 0113 Equal Tube-to-Tube Connector with Mounting Boss

	Brass		<b>ØD</b>		<b>F</b>	<b>H</b>	<b>H1</b>	<b>L1</b>	<b>L/2</b>	<b>N</b>	<b>kg</b>
			4	<a href="#">0113 04 00</a>	10	10.5	7	9.5	19	6	0.022
			6	<a href="#">0113 06 00</a>	13	13	9	10	20.5	7	0.033
			8	<a href="#">0113 08 00</a>	14	14.5	9.5	11	23.5	8	0.041
			10	<a href="#">0113 10 00</a>	19	19.5	12.5	11	26	9	0.082
			12	<a href="#">0113 12 00</a>	22	22	14	12	26.5	11	0.107
			14	<a href="#">0113 14 00</a>	24	25	16	11	28	12	0.122

## 0116 Equal Bulkhead Connector

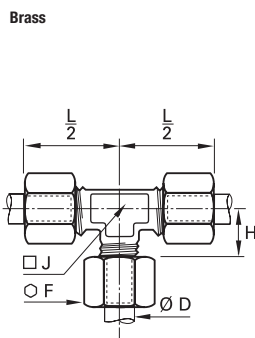
	Brass		<b>ØD</b>		<b>F</b>	<b>F1</b>	<b>F2</b>	<b>L max</b>	<b>L1 max</b>	<b>L2</b>	<b>L3</b>	<b>ØT min</b>	<b>kg</b>
			4	<a href="#">0116 04 00</a>	10	10	13	27	17	7	17	8.3	0.024
			5	<a href="#">0116 05 00</a>	13	12	14	28	18	7.5	17.5	10.3	0.035
			6	<a href="#">0116 06 00</a>	13	13	14	28	19	7.5	17.5	10.3	0.037
			8	<a href="#">0116 08 00</a>	14	14	17	29	20	7	17	12.3	0.045
			10	<a href="#">0116 10 00</a>	19	19	22	33	25	9	19	16.5	0.101
			12	<a href="#">0116 12 00</a>	22	22	22	33	25	9	19	18.5	0.121
			14	<a href="#">0116 14 00</a>	24	24	24	35	25	8	18	20.5	0.145
			15	<a href="#">0116 15 00</a>	24	24	24	35	25	8	18	20.5	0.134
			16	<a href="#">0116 16 00</a>	27	27	27	36	28	9.5	19.5	22.5	0.189
			18	<a href="#">0116 18 00</a>	27	30	30	40	30	10.5	20.5	24.5	0.237
			20	<a href="#">0116 20 00</a>	32	30	32	41	31	11	21	27.5	0.274
			22	<a href="#">0116 22 00</a>	36	36	36	42	32	11	21	30.5	0.372
			25	<a href="#">0116 25 00</a>	36	41	38	46	36	11	21	33.5	0.469

## 0102 Equal Elbow

	Brass		<b>ØD</b>		<b>F</b>	<b>J</b>	<b>L max</b>	<b>kg</b>
			4	<a href="#">0102 04 00</a>	10	5	19	0.016
			5	<a href="#">0102 05 00</a>	12	8	21	0.024
			6	<a href="#">0102 06 00</a>	13	8	22	0.027
			8	<a href="#">0102 08 00</a>	14	10	28	0.038
			10	<a href="#">0102 10 00</a>	19	12	30	0.073
			12	<a href="#">0102 12 00</a>	22	15	30	0.098
			14	<a href="#">0102 14 00</a>	24	19	35	0.133
			15	<a href="#">0102 15 00</a>	24	19	35	0.122
			16	<a href="#">0102 16 00</a>	27	19	39	0.164
			18	<a href="#">0102 18 00</a>	30	23	41	0.231
			20	<a href="#">0102 20 00</a>	32	23	42	0.233
			22	<a href="#">0102 22 00</a>	36	27	50	0.371
			25	<a href="#">0102 25 00</a>	41	27	54	0.446
			28	<a href="#">0102 28 00</a>	42	32	54.5	0.478

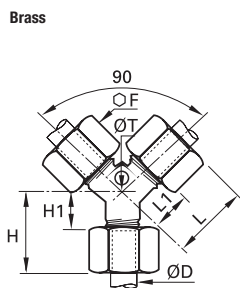
# Brass Compression Fittings

## 0104 Equal Tee



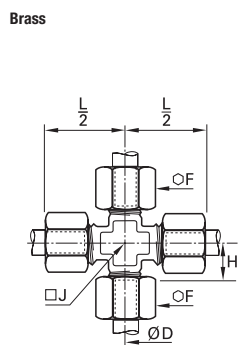
ØD		F	H	J	L/2	kg
4	<a href="#">0104 04 00</a>	10	9.5	8	19	0.028
5	<a href="#">0104 05 00</a>	12	11	8	21	0.036
6	<a href="#">0104 06 00</a>	13	11	8	22	0.040
8	<a href="#">0104 08 00</a>	14	15	10	28	0.055
10	<a href="#">0104 10 00</a>	19	14.5	12	30	0.105
12	<a href="#">0104 12 00</a>	22	15	15	30	0.142
14	<a href="#">0104 14 00</a>	24	18	19	35	0.190
15	<a href="#">0104 15 00</a>	24	18	19	35	0.175
16	<a href="#">0104 16 00</a>	27	21	19	39	0.239
18	<a href="#">0104 18 00</a>	30	21.5	23	41	0.330
20	<a href="#">0104 20 00</a>	32	21.5	23	42	0.330
22	<a href="#">0104 22 00</a>	36	29	27	50	0.518
25	<a href="#">0104 25 00</a>	41	29	27	54	0.630
28	<a href="#">0104 28 00</a>	42	30	32	55	0.660

## 0142 Equal Y Piece with Mounting Boss



ØD		F	H <sub>max</sub>	H1	L <sub>max</sub>	L1	ØT	Kg
4	<a href="#">0142 04 00</a>	10	16.5	7	26.5	17	4.2	0.032
6	<a href="#">0142 06 00</a>	13	19.5	8.5	28	17	4.2	0.049
8	<a href="#">0142 08 00</a>	14	21	8	30	17	6.2	0.061
10	<a href="#">0142 10 00</a>	19	24.5	9	37.5	22	6.2	0.128
12	<a href="#">0142 12 00</a>	22	26	11	38	23	6.2	0.110
14	<a href="#">0142 14 00</a>	24	28	11	41.5	24.5	6.2	0.201
15	<a href="#">0142 15 00</a>	24	28	11	41.5	24.5	6.2	0.204
16	<a href="#">0142 16 00</a>	27	30	12	43	25	6.2	0.252
18	<a href="#">0142 18 00</a>	30	31.5	12	50.5	31	10.2	0.220
25	<a href="#">0142 25 00</a>	41	39	14	59	34	10.2	0.728

## 0107 Equal Cross



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

# 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

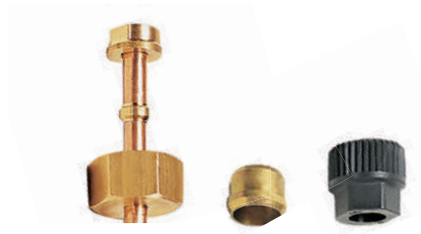
Reduces envelope dimensions  
 Quick and easy to assemble, whatever the diameters and tube material  
 Improved stock management  
 Silicone-free

#### 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



**Applications**

Pneumatics  
 Cooling  
 Automotive Process  
 Lubrication  
 Fluid Transmission  
 Packaging  
 Industrial Machinery

#### Regulations

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

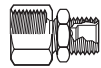
### Reducer Assembly Procedure

Operation	Assembly Sequence	Assembled Fitting
<p><b>1</b>  <b>Assemble the reducer</b>                      Place the reducer in the fitting body.</p>	<p><b>1</b></p>	
<p><b>2</b>  <b>Assemble the nut and olive</b>                      Place the nut and then the olive onto the tube.</p>	<p><b>2</b></p>	
<p><b>3</b>  <b>Assemble the nut</b>                      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><b>3</b></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.



Brass Body

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: <b>0126</b>	Copper, cold-rolled brass, polymer tube and barb connectors <b>0122</b> and <b>0165</b>	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.

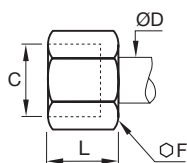
\*\*Bureau de Normalisation de l'Automobile (French Automotive Bureau of Standards)

### Recommended Tightening Torque

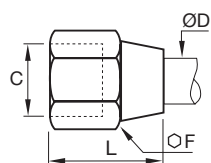
#### Tightening torque in daN.m =

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		

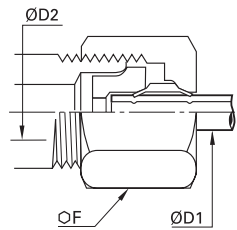
# Complementary Brass Compression Fittings


**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	0.031
	12	0166 04 12		22	0.044
	14	0166 04 14		24	0.054
5	15	0166 04 15		24	0.056
	6	0166 05 06		13	0.010
	8	0166 05 08		14	0.012
	10	0166 05 10		19	0.030
	12	0166 05 12		22	0.044
	14	0166 05 14		24	0.053
6	16	0166 05 16		27	0.078
	8	0166 06 08		14	0.012
	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
8	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	0.051
	15	0166 08 15		24	0.053
	16	0166 08 16		27	0.076
10	18	0166 08 18		30	0.100
	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
	18	0166 10 18		30	0.095
12	20	0166 10 20		32	0.107
	22	0166 10 22		36	0.144
	25	0166 10 25		41	0.209
	14	0166 12 14		24	0.043
	15	0166 12 15		24	0.043
	16	0166 12 16		27	0.066
14	18	0166 12 18		30	0.092
	20	0166 12 20		32	0.102
	22	0166 12 22		36	0.140
	25	0166 12 25		41	0.200
	16	0166 14 16		27	0.060
	18	0166 14 18		30	0.084
15	20	0166 14 20		32	0.095
	22	0166 14 22		36	0.133
	25	0166 14 25		41	0.189
	18	0166 15 18		30	0.081
16	22	0166 15 22		36	0.130
	18	0166 16 18		30	0.078
	20	0166 16 20		32	0.088
	22	0166 16 22		36	0.126
18	25	0166 16 25		41	0.185
	20	0166 18 20		32	0.082
	22	0166 18 22		36	0.118
	25	0166 18 25		41	0.180
20	28	0166 18 28		42	0.176
	20	0166 20 25		41	0.168
	22	0166 22 28		42	0.168

ØD1: tube to be fitted

ØD2: for an x mm Ø fitting


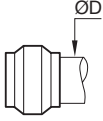

Each of the above part numbers comprises:

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


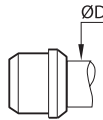



# Complementary Brass Compression Fittings


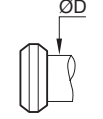

## 0124 Brass Olive

	Brass		<b>ØD</b>		<b>kg</b>
			4	<a href="#">0124 04 00</a>	0.001
			5	<a href="#">0124 05 00</a>	0.001
			6	<a href="#">0124 06 00</a>	0.001
			8	<a href="#">0124 08 00</a>	0.001
			10	<a href="#">0124 10 00</a>	0.003
			12	<a href="#">0124 12 00</a>	0.004
			14	<a href="#">0124 14 00</a>	0.005
			15	<a href="#">0124 15 00</a>	0.004
			16	<a href="#">0124 16 00</a>	0.006
			18	<a href="#">0124 18 00</a>	0.007
			20	<a href="#">0124 20 00</a>	0.009
			22	<a href="#">0124 22 00</a>	0.012
			25	<a href="#">0124 25 00</a>	0.017
			28	<a href="#">0124 28 00</a>	0.017

## 0124..40 Steel Olive

	Zinc-plated steel		<b>ØD</b>		<b>kg</b>
			4	<a href="#">0124 04 00 40</a>	0.001
			6	<a href="#">0124 06 00 40</a>	0.001
			8	<a href="#">0124 08 00 40</a>	0.001
			10	<a href="#">0124 10 00 40</a>	0.003
			12	<a href="#">0124 12 00 40</a>	0.003
			14	<a href="#">0124 14 00 40</a>	0.005
			15	<a href="#">0124 15 00 40</a>	0.004
			16	<a href="#">0124 16 00 40</a>	0.006
			18	<a href="#">0124 18 00 40</a>	0.007
			20	<a href="#">0124 20 00 40</a>	0.007
			22	<a href="#">0124 22 00 40</a>	0.010
			25	<a href="#">0124 25 00 40</a>	0.014


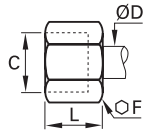

## 0111 BNA\* Brass Olive

	Brass		<b>ØD</b>		<b>kg</b>
			4	<a href="#">0111 04 00</a>	0.001
			5	<a href="#">0111 05 00</a>	0.001
			6	<a href="#">0111 06 00</a>	0.001
			8	<a href="#">0111 08 00</a>	0.001
			10	<a href="#">0111 10 00</a>	0.002
			12	<a href="#">0111 12 00</a>	0.002
			14	<a href="#">0111 14 00</a>	0.003
			15	<a href="#">0111 15 00</a>	0.003
			16	<a href="#">0111 16 00</a>	0.003


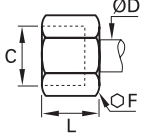

\*BNA: Bureau de Normalisation de l'Automobile (standards organization in the field of Automotive Process)

# Complementary Brass Compression Fittings


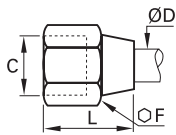

## 0110 Brass Nut

	Brass		ØD	C		F	L	kg
			4	M8x1	<a href="#">0110 04 00</a>	10	11	0.005
5	M10x1	<a href="#">0110 05 00</a>	12	11	0.006			
6	M10x1	<a href="#">0110 06 00</a>	13	11	0.008			
8	M12x1	<a href="#">0110 08 00</a>	14	13	0.008			
10	M16x1.5	<a href="#">0110 10 00</a>	19	15	0.019			
12	M18x1.5	<a href="#">0110 12 00</a>	22	15	0.026			
14	M20x1.5	<a href="#">0110 14 00</a>	24	15	0.029			
15	M20x1.5	<a href="#">0110 15 00</a>	24	15	0.028			
16	M22x1.5	<a href="#">0110 16 00</a>	27	17	0.042			
18	M24x1.5	<a href="#">0110 18 00</a>	30	18	0.057			
20	M27x1.5	<a href="#">0110 20 00</a>	32	18	0.057			
22	M30x1.5	<a href="#">0110 22 00</a>	36	19	0.078			
25	M33x1.5	<a href="#">0110 25 00</a>	41	21	0.121			
28	M36x1.5	<a href="#">0110 28 00</a>	42	21	0.110			


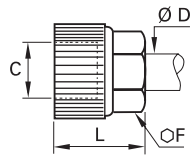

## 0110..40 Steel Nut

	Zinc-plated steel		ØD	C		F	L	kg
			4	M8x1	<a href="#">0110 04 00 40</a>	10	11	0.004
5	M10x1	<a href="#">0110 05 00 40</a>	12	11.5	0.005			
6	M10x1	<a href="#">0110 06 00 40</a>	13	12	0.008			
8	M12x1	<a href="#">0110 08 00 40</a>	14	13.5	0.008			
10	M16x1.5	<a href="#">0110 10 00 40</a>	19	16	0.018			
12	M18x1.5	<a href="#">0110 12 00 40</a>	22	16.5	0.027			
14	M20x1.5	<a href="#">0110 14 00 40</a>	24	17	0.030			
15	M20x1.5	<a href="#">0110 15 00 40</a>	24	17	0.029			
16	M22x1.5	<a href="#">0110 16 00 40</a>	27	18	0.042			
18	M24x1.5	<a href="#">0110 18 00 40</a>	30	19	0.056			
20	M27x1.5	<a href="#">0110 20 00 40</a>	32	20.5	0.061			
22	M30x1.5	<a href="#">0110 22 00 40</a>	36	21.5	0.085			

## 0110..60 Brass Long Nut

	Brass		ØD	C		F	L	kg
			4	M8x1	<a href="#">0110 04 00 60</a>	11	14.5	0.007
5	M10x1	<a href="#">0110 05 00 60</a>	13	17	0.008			
6	M10x1	<a href="#">0110 06 00 60</a>	13	17.5	0.011			
8	M12x1	<a href="#">0110 08 00 60</a>	16	20	0.019			
10	M16x1.5	<a href="#">0110 10 00 60</a>	20	23	0.032			
12	M18x1.5	<a href="#">0110 12 00 60</a>	22	25	0.039			
14	M20x1.5	<a href="#">0110 14 00 60</a>	24	30	0.051			
15	M20x1.5	<a href="#">0110 15 00 60</a>	24	30	0.049			
16	M22x1.5	<a href="#">0110 16 00 60</a>	27	32	0.070			
18	M24x1.5	<a href="#">0110 18 00 60</a>	30	35	0.098			
20	M27x1.5	<a href="#">0110 20 00 60</a>	32	35	0.102			
22	M30x1.5	<a href="#">0110 22 00 60</a>	36	36	0.129			

## 0110..70 Technical Polymer Nut-Olive

	Technical polymer		ØD	C		F	L	kg
			4	M8x1	<a href="#">0110 04 00 70</a>	8	13	0.008
6	M10x1	<a href="#">0110 06 00 70</a>	11	15	0.002			
8	M12x1	<a href="#">0110 08 00 70</a>	13	16	0.002			
10	M16x1.5	<a href="#">0110 10 00 70</a>	17	19	0.004			
12	M18x1.5	<a href="#">0110 12 00 70</a>	19	19	0.005			
14	M20x1.5	<a href="#">0110 14 00 70</a>	22	20	0.005			
16	M22x1.5	<a href="#">0110 16 00 70</a>	24	21	0.008			

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



# Self-Fastening Barb Connectors for NBR Hose

This range of fittings is designed to meet the requirements of the automotive and robotics industries, combining as it does **optimum CNOMO manufacturing quality**, simple installation, reliable operation and a **long service life**.

## Product Advantages

### Perfect for Self-Fastening NBR Hose

- Quick and simple to install
- Compatible with the Parker Legris range of brass compression fittings
- Mechanical properties proven for use in industrial robotic installations
- Spark-resistant

### Ergonomic and Time-Saving

- Fitting does not require lubrication or clamping, reducing assembly time
- Visual stop confirms installation is correct and improves operating safety
- Removal by cutting the tube
- The fitting can be re-used if necessary



**Applications**

- Welding Robots
- Pneumatics
- Compressed Air Systems
- Automotive Process
- Cooling

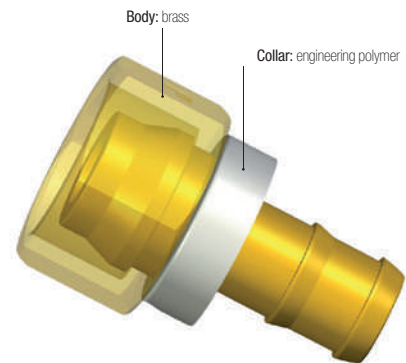
## Technical Characteristics

<b>Compatible Fluids</b>	Coolants, compressed air
<b>Working Pressure</b>	0 to 16 bar
<b>Working Temperature</b>	0°C to +100°C (water) -20°C to +70°C (air)

<b>Tightening Torque, Type 0132</b>	DN	6	8	10	14	18	22
	daN.m	0.7	1.5	1.8	3.5	6	7

Reliable performance is dependent upon the type of fluid conveyed and hose being used.

### Component Materials



**Silicone-free**

### Self-Fastening Hose Assembly Machine

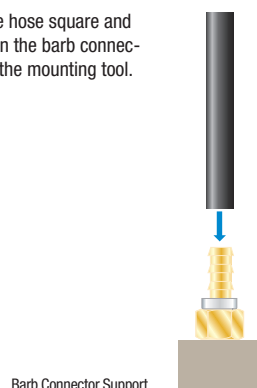
Machine designed to assemble a barb connector and a self-fastening NBR hose.

Machine part number:  
**0650 00 00 05**



#### Tube Cutting and Positioning

Cut the hose square and position the barb connector on the mounting tool.



#### Press-Fitting the Tube

Activate the press-fit tool; connection is complete when the tube is fully home on the barb connector. This tool has been designed for use with 5 different diameters and is easy to operate.




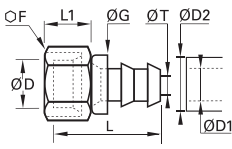

### Regulations

#### Industrial

DI: 2002/95/EC (RoHS), 2011/65/EC  
DI: 97/23/EC (PED)  
RG: 1907/2006 (REACH)  
CNOMO: E07.21.115N


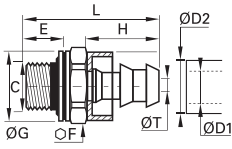

# Self-Fastening Barb Connectors for NBR Hose

## 0132 Self-Fastening Barb Connector for Brass Compression Fitting

	Brass		ØD	ØD1	ØD2		F	G	L	L1	ØT	kg
			6	6.3	13	<a href="#">0132 06 56</a>	12	16.5	32.5	12.5	4.8	0.010
			8	6.3	13	<a href="#">0132 08 56</a>	14	16.5	29.5	11.5	4.8	0.015
			10	6.3	13	<a href="#">0132 10 56</a>	19	16.5	30	14	4.8	0.028
				9.5	16	<a href="#">0132 10 60</a>	19	19.5	34	14	7.5	0.030
			14	9.5	16	<a href="#">0132 14 60</a>	24	19.5	35.5	15	7.5	0.050
				12.7	19	<a href="#">0132 14 62</a>	24	23.5	39.5	15	10	0.054
			18	12.7	19	<a href="#">0132 18 62</a>	30	23.5	41.5	17	10	0.090
				15.9	23	<a href="#">0132 18 66</a>	30	27	50	17	13.5	0.090
			22	19.1	27	<a href="#">0132 22 69</a>	36	30.5	56.5	17	16	0.128


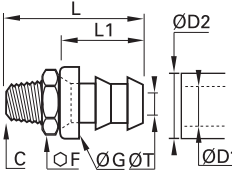

Polymer collar

## 0133..39 Self-Fastening Barb Connector with Bi-Material Seal, Male BSPP Thread

	Brass, zinc-plated steel with NBR seal		ØD1	ØD2	C		E	F	G	H	L	ØT	kg
			6.3	13	G1/8	<a href="#">0133 56 10 39</a>	5.5	13	14	20	31.5	4.8	0.012
				13	G1/4	<a href="#">0133 56 13 39</a>	7	17	17	20	33.5	4.8	0.018
			9.5	16	G1/4	<a href="#">0133 60 13 39</a>	7	17	17	24	37.5	7.5	0.022
				16	G3/8	<a href="#">0133 60 17 39</a>	9.5	22	22	24	42.5	7.5	0.038
			12.7	19	G3/8	<a href="#">0133 62 17 39</a>	9.5	22	22	28	46.5	10	0.045
				19	G1/2	<a href="#">0133 62 21 39</a>	10.5	27	26	28	48.5	10	0.060
			15.9	23	G1/2	<a href="#">0133 66 21 39</a>	10.5	27	26	36.5	57	13.5	0.064
				23	G3/4	<a href="#">0133 66 27 39</a>	11.5	32	32	36.5	59	13.5	0.095
			19.1	27	G3/4	<a href="#">0133 69 27 39</a>	11.5	32	32	43	65.5	16	0.111

Thread with bi-material seal and polymer collar.  
Bi-material sealing washer part number 0139 can be found in Chapter 9.

## 0134 Self-Fastening Barb Connector, Male BSPT Thread

	Brass		ØD1	ØD2	C		F	G	L	L1	ØT	kg
			6.3	13	R1/8	<a href="#">0134 56 10</a>	14	16.5	32.5	20	4.8	0.015
				13	R1/4	<a href="#">0134 56 13</a>	14	16.5	37	20	4.8	0.020
			9.5	16	R1/4	<a href="#">0134 60 13</a>	14	19.5	41	24	7.5	0.022
				16	R3/8	<a href="#">0134 60 17</a>	19	19.5	41.5	24	7.5	0.036
			12.7	19	R3/8	<a href="#">0134 62 17</a>	19	23.5	45.5	28	10	0.038
				19	R1/2	<a href="#">0134 62 21</a>	22	23.5	50	28	10	0.062
			15.9	23	R1/2	<a href="#">0134 66 21</a>	22	27	58.5	36.5	13.5	0.056
				23	R3/4	<a href="#">0134 66 27</a>	27	27	60.5	36.5	13.5	0.101
			19.1	27	R3/4	<a href="#">0134 69 27</a>	27	30.5	67	43	16	0.108

Polymer collar

Self-fastening NBR hose is selected by nominal diameter; for example:

Barb Connector	O.D. (Tube)	Ø DN (Tube)	Self-Fastening NBR hose
<b>0132 10 56</b>	<b>10</b>	<b>1/4</b>	<b>10..H 56...</b>

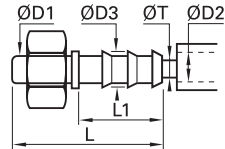


# Brass Adaptors

## 0122 Barb Connector for Hose



Brass

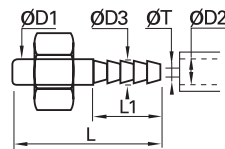


ØD1	ØD2		ØD3	L	L1	ØT min	kg
4	4	<a href="#">0122 04 04</a>	6	37.5	22.5	3	0.004
5	4	<a href="#">0122 05 04</a>	6	37.5	22.5	3	0.003
6	4	<a href="#">0122 06 04</a>	6	37.5	22.5	3	0.005
	7	<a href="#">0122 06 07</a>	9	37.5	22.5	6	0.007
8	6	<a href="#">0122 08 06</a>	8	40	22.5	5	0.007
	7	<a href="#">0122 08 07</a>	9	40	22.5	6	0.008
10	10	<a href="#">0122 08 10</a>	12.5	40	22.5	9	0.013
	7	<a href="#">0122 10 07</a>	9	43	22.5	6	0.010
10	10	<a href="#">0122 10 10</a>	12.5	43	22.5	9	0.014
	10	<a href="#">0122 12 10</a>	12.5	43	22.5	9	0.014
12	13	<a href="#">0122 12 13</a>	15	50	29.5	12	0.018
	13	<a href="#">0122 14 13</a>	15	52	29.5	12	0.019
14	16	<a href="#">0122 14 16</a>	18.5	60.5	38	15	0.308
	13	<a href="#">0122 15 13</a>	15	52	29.5	12	0.019
15	16	<a href="#">0122 15 16</a>	18.5	60.5	38	15	0.032
	13	<a href="#">0122 16 13</a>	15	53.5	29.5	12	0.021
16	16	<a href="#">0122 16 16</a>	18.5	62	38	15	0.032
	16	<a href="#">0122 18 16</a>	18.5	62	38	15	0.032
18	19	<a href="#">0122 18 19</a>	21.5	62	38	18	0.041
	16	<a href="#">0122 20 16</a>	18.5	64	38	15	0.034
20	19	<a href="#">0122 20 19</a>	21.5	64	38	18	0.038
	19	<a href="#">0122 22 19</a>	21.5	64	38	18	0.039
25	19	<a href="#">0122 25 19</a>	21.5	70	38	18	0.049
	25	<a href="#">0122 25 25</a>	27.5	70	38	24	0.054
28	25	<a href="#">0122 28 25</a>	27.5	70	38	24	0.087

## 0165 Barb Connector for Flexible Tubing



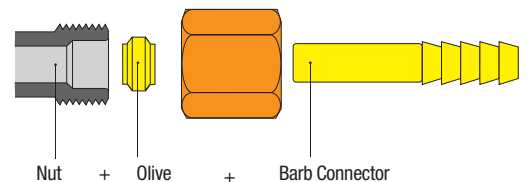
Brass



ØD1	ØD2		ØD3	L	L1	ØT min	kg
4	4	<a href="#">0165 04 06</a>	4.3	30	15	2	0.002
5	4	<a href="#">0165 05 06</a>	4.3	30	15	2	0.010
	4	<a href="#">0165 06 06</a>	4.3	30	15	2	0.003
6	6	<a href="#">0165 06 08</a>	6.4	30	15	4	0.004
	8	<a href="#">0165 06 10</a>	8.4	30	15	4	0.004
8	6	<a href="#">0165 08 08</a>	6.4	32.5	15	4	0.006
	8	<a href="#">0165 08 10</a>	8.4	32.5	15	6	0.006
10	10	<a href="#">0165 08 12</a>	10.7	37.5	20	8	0.009
	8	<a href="#">0165 10 10</a>	8.4	35.5	15	6	0.008
10	10	<a href="#">0165 10 12</a>	10.7	40.5	20	8	0.010
	12	<a href="#">0165 10 14</a>	12.7	40.5	20	8	0.012
12	10	<a href="#">0165 12 12</a>	10.7	40.5	20	8	0.011
	12	<a href="#">0165 12 14</a>	12.7	40.5	20	10	0.013
14	12	<a href="#">0165 14 14</a>	12.7	42.5	20	10	0.014
15	13	<a href="#">0165 15 16</a>	13.7	42.5	20	11	0.016
16	13	<a href="#">0165 16 16</a>	13.7	44	20	11	0.018


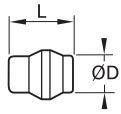

### Assembly: Barb Connectors

Our barb connectors 0122 and 0165 are designed to be used with different types of hose. They are secured using the nut and olive provided with the fitting.




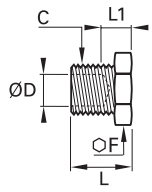

# Brass Adaptors

## 0126 Plug for Compression Fitting

	Brass 	<b>ØD</b>		<b>L</b>	<b>kg</b>
		4	<a href="#">0126 04 00</a>	10	0.001
		5	<a href="#">0126 05 00</a>	10	0.003
		6	<a href="#">0126 06 00</a>	10	0.003
		8	<a href="#">0126 08 00</a>	11.5	0.006
		10	<a href="#">0126 10 00</a>	13	0.010
		12	<a href="#">0126 12 00</a>	13	0.014
		14	<a href="#">0126 14 00</a>	13.5	0.020
		15	<a href="#">0126 15 00</a>	13.5	0.022
		16	<a href="#">0126 16 00</a>	16	0.029
		18	<a href="#">0126 18 00</a>	16	0.039
		20	<a href="#">0126 20 00</a>	16	0.045
		22	<a href="#">0126 22 00</a>	18	0.003
		28	<a href="#">0126 28 00</a>	19.5	0.108


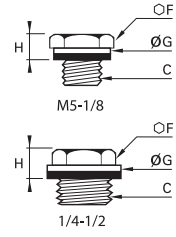

The plug is used to blank off an outlet in a compression fitting, replacing the olive.  
When an open outlet is required, simply dismantle and replace the plug with the tube olive, reusing the nut.  
The plug is also reusable.

## 0125 Tube End Plug for Compression Fitting

	Brass 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		4	M8x1	<a href="#">0125 04 00</a>	10	12	8	0.006
		6	M10x1	<a href="#">0125 06 00</a>	11	13.5	9.5	0.008
		8	M12x1	<a href="#">0125 08 00</a>	14	14	9	0.013
		10	M16x1.5	<a href="#">0125 10 00</a>	17	18	11	0.025
		12	M18x1.5	<a href="#">0125 12 00</a>	19	18	11	0.030
		14	M20x1.5	<a href="#">0125 14 00</a>	22	19	11	0.041


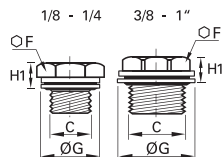

This plug enables unused tubes to be blanked off.  
The male thread on the plug has the same pitch as the female thread on the sleeve nut of a standard Parker Legris fitting.  
Therefore the plug screwed into the sleeve nut blanks off the tube.  
To reopen the passage, simply unscrew the plug and fit the required coupler.  
No further treatment of the tube is required.

## 0220 Hex Head Plug with Captive Sealing Washer, Male BSPP and Metric Thread

	Brass, technical polymer 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		M5x0.8	<a href="#">0220 19 00</a>	8	8	5	0.002
		G1/8	<a href="#">0220 10 00</a>	14	14	7.5	0.011
		G1/4	<a href="#">0220 13 00</a>	17	17	7.5	0.019
		G3/8	<a href="#">0220 17 00</a>	17	22	8.5	0.024
		G1/2	<a href="#">0220 21 00</a>	22	27	10	0.040

Thread with pre-assembled washer.  
M5: with screwdriver slot for tightening.  
Maximum allowable working pressure = 20 bar.  
Part number with suffix 99, maximum allowable working pressure = 250 bar, example: 0220 19 00 99.  
Conforms to BNA 229 (with the exception of M5 model): BSPP thread, ISO ISO 228-1;  
metric thread, ISO NFE 03-054.

## 0220..39 Hex Head Plug with Bi-Material Seal, Male BSPP Thread

	Brass, zinc-plated steel with NBR seal 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H1</b>	<b>kg</b>
		G1/8	<a href="#">0220 10 00 39</a>	14	14	6.5	0.012
		G1/4	<a href="#">0220 13 00 39</a>	17	17	6.5	0.020
		G3/8	<a href="#">0220 17 00 39</a>	17	22	8	0.025
		G1/2	<a href="#">0220 21 00 39</a>	22	26	9	0.043
		G3/4	<a href="#">0220 27 00 39</a>	22	32	10	0.060
		G1	<a href="#">0220 34 00 39</a>	27	39.5	10.5	0.089

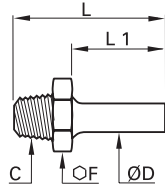
Plug with bi-material seal.  
Bi-material washers part number 0139 can be found in Chapter 9.

# Brass Adaptors

## 0120 Stud Standpipe, Male BSPT Thread



Brass

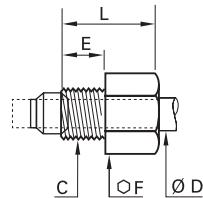


ØD	C		F	L	L1	kg
4	R1/8	<a href="#">0120 04 10</a>	11	25.5	14	0.007
5	R1/8	<a href="#">0120 05 10</a>	11	26	14.5	0.007
6	R1/8	<a href="#">0120 06 10</a>	11	26.5	15	0.008
	R1/4	<a href="#">0120 06 13</a>	14	31	15	0.015
8	R1/8	<a href="#">0120 08 10</a>	11	28.5	17	0.009
	R1/4	<a href="#">0120 08 13</a>	14	33	17	0.016
10	R3/8	<a href="#">0120 08 17</a>	17	33.5	17	0.020
	R1/4	<a href="#">0120 10 13</a>	14	36	20	0.018
12	R3/8	<a href="#">0120 10 17</a>	17	36.5	20	0.022
	R1/2	<a href="#">0120 10 21</a>	22	41	20	0.038
14	R1/4	<a href="#">0120 12 13</a>	14	36	20	0.018
	R3/8	<a href="#">0120 12 17</a>	17	36.5	20	0.022
16	R1/2	<a href="#">0120 12 21</a>	22	41	20	0.041
	R3/8	<a href="#">0120 14 17</a>	17	38	21.5	0.024
18	R1/2	<a href="#">0120 14 21</a>	22	42.5	21.5	0.041
	R3/8	<a href="#">0120 15 17</a>	17	38	21.5	0.023
20	R1/2	<a href="#">0120 15 21</a>	22	42.5	21.5	0.041
	R3/8	<a href="#">0120 16 17</a>	17	39.5	23	0.024
22	R1/2	<a href="#">0120 16 21</a>	22	44	23	0.042
	R1/2	<a href="#">0120 18 21</a>	22	44.5	23.5	0.042
24	R3/4	<a href="#">0120 18 27</a>	27	47.5	23.5	0.071
	R3/4	<a href="#">0120 20 27</a>	27	49	25	0.071
26	R3/4	<a href="#">0120 22 27</a>	27	48.5	25.5	0.067
	R1	<a href="#">0120 22 34</a>	36	52.5	25.5	0.116
28	R1	<a href="#">0120 25 34</a>	36	57	30	0.119
30	R1	<a href="#">0120 28 34</a>	36	57	30	0.138

## 0112 Sleeve Nut for Compression Fitting, Male Metric Thread



Brass



ØD	C		E	F	L	kg
4	M8x1	<a href="#">0112 04 00</a>	7	10	13	0.005
5	M10x1	<a href="#">0112 05 00</a>	7.5	11	13.5	0.007
6	M10x1	<a href="#">0112 06 00</a>	7.5	11	13.5	0.006
8	M12x1	<a href="#">0112 08 00</a>	8	13	15	0.008
10	M16x1.5	<a href="#">0112 10 00</a>	11	17	18	0.018
12	M18x1.5	<a href="#">0112 12 00</a>	11	19	18	0.021
14	M20x1.5	<a href="#">0112 14 00</a>	11	22	18	0.026

This product was designed to allow the tube to be fitted directly into the tapped port in a body using a standard Parker Legris olive.  
For the corresponding drawings (cavity for Parker Legris olive), please consult us.

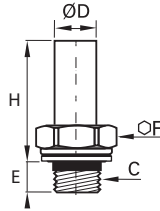


# Brass Adaptors

## 0128..39 Stud Standpipe with Bi-Material Seal, Male BSPP Thread



Brass, zinc-plated steel with NBR seal



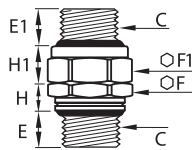
ØD	C		E	F	H	Kg
4	G1/8	<a href="#">0128 04 10 39</a>	7.5	13	20	0.009
	G1/4	<a href="#">0128 04 13 39</a>	9	17	22	0.015
6	G1/8	<a href="#">0128 06 10 39</a>	7.5	13	21	0.010
	G1/4	<a href="#">0128 06 13 39</a>	9	17	23	0.016
8	G1/8	<a href="#">0128 08 10 39</a>	7.5	13	23	0.011
	G1/4	<a href="#">0128 08 13 39</a>	9	17	25	0.017
10	G3/8	<a href="#">0128 08 17 39</a>	12	22	26	0.033
	G1/4	<a href="#">0128 10 13 39</a>	9	17	28	0.018
	G3/8	<a href="#">0128 10 17 39</a>	12	22	29	0.034
14	G1/2	<a href="#">0128 10 21 39</a>	27	27	30	0.048
	G3/8	<a href="#">0128 14 17 39</a>	12	22	30.5	0.035
18	G1/2	<a href="#">0128 14 21 39</a>	27	27	31.5	0.049
	G1/2	<a href="#">0128 18 21 39</a>	27	27	33.5	0.052
22	G3/4	<a href="#">0128 18 27 39</a>	14	32	34.5	0.084
	G1	<a href="#">0128 22 34 39</a>	16.5	41	38	0.123
28	G1	<a href="#">0128 28 34 39</a>	16.5	41	42.5	0.149

With bi-material seal.  
Bi-material washers part number 0139 can be found in Chapter 9.

## 0151..39 Straight Male Orientable Adaptor, with Bi-Material Seal, Male BSPP Thread



Brass, NBR, zinc-plated steel with NBR seal



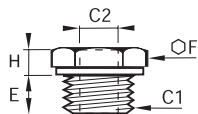
C		E	E1	F	F1	H	H1	kg
G1/8	<a href="#">0151 10 10 39</a>	5.5	7	13	14	6	6.5	0.017
G1/4	<a href="#">0151 13 13 39</a>	7	8.5	17	19	6.5	9	0.036
G3/8	<a href="#">0151 17 17 39</a>	9.5	9.5	22	22	9	9	0.057
G1/2	<a href="#">0151 21 21 39</a>	10.5	10.5	27	27	10	10	0.083
G3/4	<a href="#">0151 27 27 39</a>	11.5	11.5	32	32	11	10	0.121
G1	<a href="#">0151 34 34 39</a>	13	13.5	41	41	12.5	10.5	0.230

With bi-material seal.  
Bi-material washers part number 0139 can be found in Chapter 9.

## 0168..39 Reducer, with Bi-Material Seal, Male BSPP Thread/Female BSPP and Metric Thread



Brass, zinc-plated steel with NBR seal



C1	C2		E	F	H	kg
G1/8	M5x0.8	<a href="#">0168 10 19 39</a>	8	14	4.5	0.009
G1/4	M5x0.8	<a href="#">0168 13 19 39</a>	8	17	5	0.018
	G1/8	<a href="#">0168 13 10 39</a>	8	17	5	0.012
G3/8	G1/8	<a href="#">0168 17 10 39</a>	10	19	5	0.020
	G1/4	<a href="#">0168 17 13 39</a>	10	19	5	0.013
G1/2	G1/8	<a href="#">0168 21 10 39</a>	12	24	7.5	0.052
	G1/4	<a href="#">0168 21 13 39</a>	12	24	7.5	0.043
	G3/8	<a href="#">0168 21 17 39</a>	12	24	7.5	0.030
G3/4	G1/4	<a href="#">0168 27 13 39</a>	12	32	9.5	0.099
	G3/8	<a href="#">0168 27 17 39</a>	12	32	9.5	0.086
	G1/2	<a href="#">0168 27 21 39</a>	12	32	9.5	0.065

With bi-material seal.  
Bi-material washers part number 0139 can be found in Chapter 9.

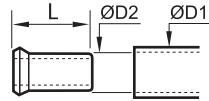
# Brass Adaptors


**0127**

Tube Support for Polymer Tubing



Brass



ØD1	ØD2		L	kg
4	2	<a href="#">0127 04 00</a>	11	0.001
	2.7	<a href="#">0127 04 27</a>	11	0.001
5	3	<a href="#">0127 05 03</a>	11	0.001
	3.3	<a href="#">0127 05 00</a>	11.5	0.009
6	4	<a href="#">0127 06 00</a>	11.5	0.001
8	5.5	<a href="#">0127 08 55</a>	14	0.001
	6	<a href="#">0127 08 00</a>	14	0.001
10	7	<a href="#">0127 10 07</a>	18	0.001
	7.5	<a href="#">0127 10 75</a>	18	0.001
	8	<a href="#">0127 10 00</a>	18	0.002
12	8	<a href="#">0127 12 08</a>	18	0.002
	9	<a href="#">0127 12 09</a>	18	0.002
14	10	<a href="#">0127 12 00</a>	18	0.001
	11	<a href="#">0127 14 11</a>	18	0.002
15	12	<a href="#">0127 14 00</a>	18	0.002
16	12	<a href="#">0127 15 12</a>	18	0.002
18	13	<a href="#">0127 16 13</a>	18	0.003
20	14	<a href="#">0127 18 14</a>	19.5	0.003
22	15	<a href="#">0127 20 15</a>	20.5	0.003
25	16	<a href="#">0127 22 16</a>	21	0.004
	19	<a href="#">0127 25 19</a>	25	0.007

This tube support guarantees good gripping, at high temperatures and pressures, by preventing collapsing of the tube.

# Stainless Steel Compression Fitting Range

## Stainless Steel Fittings

### Stud Fittings

<b>1805</b> BSPT Page 5-34	<b>1805</b> NPT Page 5-34	<b>1814</b> BSPP Page 5-34	<b>1809</b> BSPT Page 5-35	<b>1809</b> NPT Page 5-35	<b>1820</b> BSPT Page 5-35	<b>1820</b> NPT Page 5-35
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### Tube-to-Tube Fittings

<b>1806</b> Page 5-36	<b>1816</b> Page 5-36	<b>1802</b> Page 5-36	<b>1804</b> Page 5-36
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### Complementary Fittings

<b>1866</b> Page 5-39	<b>1824</b> Page 5-39	<b>1810</b> Page 5-39
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### Accessories

<b>1822</b> Page 5-39	<b>1827</b> Page 5-39
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# 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

Applications

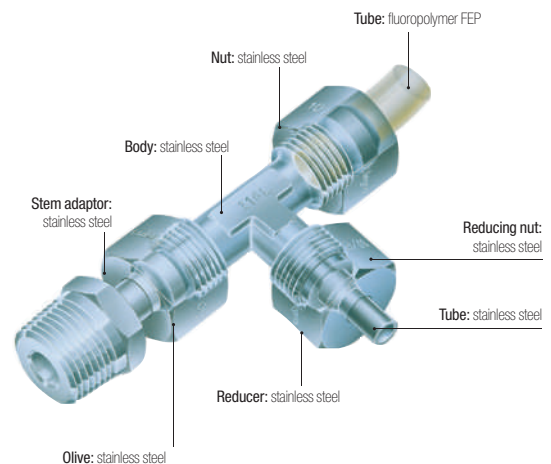
## Technical Characteristics

<b>Compatible Fluids</b>	Many fluids					
<b>Working Pressure</b>	Vacuum to 400 bar (80 bar in corrosive environments)					
<b>Working Temperature</b>	-40°C to +250°C					

<b>Tightening Torques</b>	DN	6	8	10	12	16
	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).

### Component Materials



Silicone-free

### 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
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

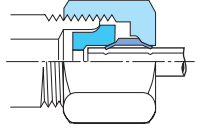
# Stainless Steel Compression Fittings

## Installation

### Fitting

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

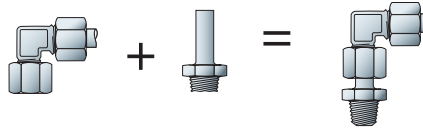
#### Diagram: Assembled Fitting



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

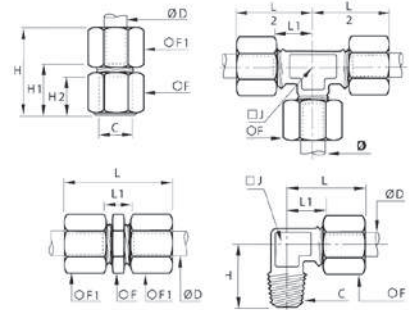
### Orientable Elbow Assembly

Elbow  
**1802**      Adaptor  
**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.

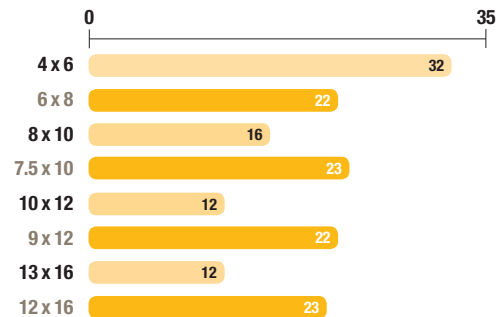
**Stainless steel tube**

Stainless steel tube: in cold-rolled straight lengths

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

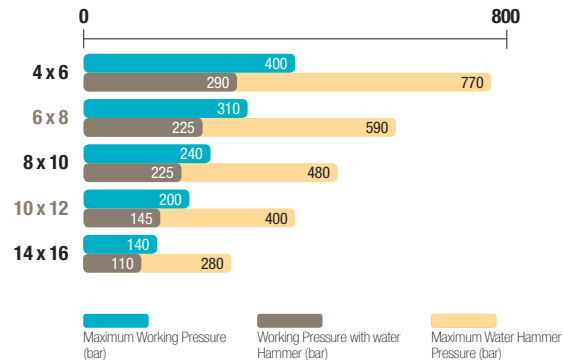
#### Semi-Rigid Polyamide Tube

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

Stainless steel 316L		ØD	C		F	F1	H <sub>max</sub>	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		
	R1/4	1805 08 13	14	14	21	7	0.024		
10	R1/4	1805 10 13	17	19	25.5	9	0.044		
	R3/8	1805 10 17	17	19	25.5	9	0.049		
12	R1/2	1805 10 21	22	19	26.5	10	0.076		
	R1/4	1805 12 13	19	22	26	9	0.054		
	R3/8	1805 12 17	19	22	26	9	0.058		
16	R1/2	1805 12 21	22	22	27	10	0.081		
	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		F	F1	H <sub>max</sub>	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		
	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		
	NPT1/4	1805 08 14	14	14	21	7	0.027		
10	NPT1/4	1805 10 14	17	19	25.5	9	0.045		
	NPT3/8	1805 10 18	19	19	25.5	9	0.055		
	NPT1/2	1805 10 22	22	19	26.5	10	0.083		
12	NPT1/4	1805 12 14	19	22	26	9	0.056		
	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


Stainless steel 316L		ØD	C		E	F	F1	H <sub>max</sub>	H1	kg
6	G1/8	1814 06 10	7.5	14	13	29	17	0.023		
	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		
	G3/8	1814 10 17	11.5	22	19	38.5	22	0.064		
10	G1/2	1814 10 21	15	27	19	43	26.5	0.093		
	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		
	G1/2	1814 16 21	15	27	27	45	26	0.120		

# Stainless Steel Compression Fittings


## 1809 Stud Elbow, Male BSPT Thread

ØD	C		F	H	J	L <sub>max</sub>	L1	kg
6	R1/8	<a href="#">1809 06 10</a>	13	18	8	25.5	13.5	0.021
	R1/4	<a href="#">1809 06 13</a>	13	23	10	25.5	13.5	0.030
8	R1/8	<a href="#">1809 08 10</a>	14	20.5	10	28.5	14.5	0.027
	R1/4	<a href="#">1809 08 13</a>	14	23	10	28.5	14.5	0.031
10	R1/4	<a href="#">1809 10 13</a>	19	25	12	32.5	16	0.050
	R3/8	<a href="#">1809 10 17</a>	19	25.5	12	32.5	16	0.058
12	R1/2	<a href="#">1809 10 21</a>	19	32	18	36.5	20	0.091
	R1/4	<a href="#">1809 12 13</a>	22	26	14	34	17	0.067
16	R3/8	<a href="#">1809 12 17</a>	22	27	14	34	17	0.070
	R1/2	<a href="#">1809 12 21</a>	22	32	18	37	20	0.098
16	R3/8	<a href="#">1809 16 17</a>	27	28.5	18	39.5	21	0.107
	R1/2	<a href="#">1809 16 21</a>	27	31.5	18	39.5	21	0.114


## 1809 Stud Elbow, Male NPT Thread

ØD	C		F	H	J	L <sub>max</sub>	L1	kg
6	NPT1/8	<a href="#">1809 06 11</a>	13	19.5	8	25.5	13.5	0.022
	NPT1/4	<a href="#">1809 06 14</a>	13	25.5	10	25.5	13.5	0.031
	NPT3/8	<a href="#">1809 06 18</a>	13	28	12	27	15	0.046
	NPT1/2	<a href="#">1809 06 22</a>	13	34	12	29	17	0.072
8	NPT1/8	<a href="#">1809 08 11</a>	14	22	10	28.5	14.5	0.028
	NPT1/4	<a href="#">1809 08 14</a>	14	25.5	10	28.5	14.5	0.033
10	NPT1/4	<a href="#">1809 10 14</a>	19	27.5	12	32.5	16	0.052
	NPT3/8	<a href="#">1809 10 18</a>	19	28	12	32.5	16	0.061
12	NPT1/2	<a href="#">1809 10 22</a>	19	35	18	36.5	20	0.096
	NPT1/4	<a href="#">1809 12 14</a>	22	28.5	14	34	17	0.069
16	NPT3/8	<a href="#">1809 12 18</a>	22	29.5	14	34	17	0.074
	NPT1/2	<a href="#">1809 12 22</a>	22	35	18	37	20	0.102
16	NPT3/8	<a href="#">1809 16 18</a>	27	31	18	39.5	21	0.110
	NPT1/2	<a href="#">1809 16 22</a>	27	34.5	18	39.5	21	0.116

## 1820 Stud Standpipe, Male BSPT Thread


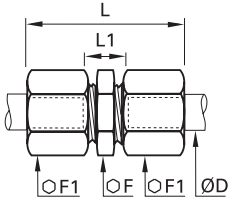

ØD	C		F	L	L1	kg
6	R1/8	<a href="#">1820 06 10</a>	12	26.5	15	0.009
	R1/4	<a href="#">1820 06 13</a>	14	31	15	0.017
8	R1/8	<a href="#">1820 08 10</a>	12	28.5	17	0.008
	R1/4	<a href="#">1820 08 13</a>	14	33	17	0.016
10	R1/4	<a href="#">1820 10 13</a>	14	36	20	0.016
	R3/8	<a href="#">1820 10 17</a>	17	36.5	20	0.025
12	R1/2	<a href="#">1820 10 21</a>	22	41	20	0.052
	R1/4	<a href="#">1820 12 13</a>	14	36	20	0.016
16	R3/8	<a href="#">1820 12 17</a>	17	36.5	20	0.022
	R1/2	<a href="#">1820 12 21</a>	22	41	20	0.048
16	R3/8	<a href="#">1820 16 17</a>	17	39.5	23	0.022
	R1/2	<a href="#">1820 16 21</a>	22	44	23	0.038

## 1820 Stud Standpipe, Male NPT Thread


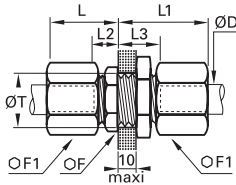

ØD	C		F	L	L1	kg
6	NPT1/8	<a href="#">1820 06 11</a>	12	26.5	15	0.009
	NPT1/4	<a href="#">1820 06 14</a>	14	31	15	0.019
8	NPT1/8	<a href="#">1820 08 11</a>	12	28.5	17	0.009
	NPT1/4	<a href="#">1820 08 14</a>	14	33	17	0.019
10	NPT1/4	<a href="#">1820 10 14</a>	14	36	20	0.018
	NPT3/8	<a href="#">1820 10 18</a>	19	36.5	20	0.032
12	NPT1/2	<a href="#">1820 10 22</a>	22	41	20	0.060
	NPT1/4	<a href="#">1820 12 14</a>	14	36	20	0.019
16	NPT3/8	<a href="#">1820 12 18</a>	19	36.5	20	0.028
	NPT1/2	<a href="#">1820 12 22</a>	22	41	20	0.053
16	NPT3/8	<a href="#">1820 16 18</a>	19	39.5	23	0.027
	NPT1/2	<a href="#">1820 16 22</a>	22	44	23	0.042

# Stainless Steel Compression Fittings


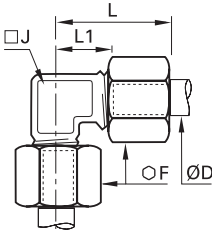

## 1806 Equal Tube-to-Tube Connector

	Stainless steel 316L 	<b>ØD</b>		<b>F</b>	<b>F1</b>	<b>L<sub>max</sub></b>	<b>L1</b>	<b>kg</b>
		6	<a href="#">1806 06 00</a>	12	13	34.5	11	0.025
		8	<a href="#">1806 08 00</a>	13	14	38.5	10	0.029
		10	<a href="#">1806 10 00</a>	17	19	46	13	0.066
		12	<a href="#">1806 12 00</a>	19	22	47	13	0.085
		16	<a href="#">1806 16 00</a>	24	27	51	13	0.135


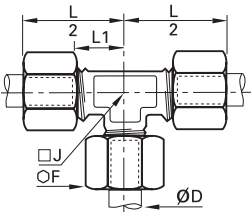

## 1816 Equal Bulkhead Connector

	Stainless steel 316L 	<b>ØD</b>		<b>F</b>	<b>F1</b>	<b>L<sub>max</sub></b>	<b>L1<sub>max</sub></b>	<b>L2</b>	<b>L3</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>
		6	<a href="#">1816 06 00</a>	13	13	28	19	7.5	17	10.5	0.034
		8	<a href="#">1816 08 00</a>	14	14	29	20	7	17	12.5	0.042
		10	<a href="#">1816 10 00</a>	19	19	33	25	9	19	16.5	0.094
		12	<a href="#">1816 12 00</a>	22	22	33	25	9	19	18.5	0.113
		16	<a href="#">1816 16 00</a>	27	27	36	28	9.5	19.5	22.5	0.179

## 1802 Equal Elbow

	Stainless steel 316L 	<b>ØD</b>		<b>F</b>	<b>J</b>	<b>L<sub>max</sub></b>	<b>L1</b>	<b>kg</b>
		6	<a href="#">1802 06 00</a>	13	8	25.5	13.5	0.028
		8	<a href="#">1802 08 00</a>	14	10	28.5	14.5	0.035
		10	<a href="#">1802 10 00</a>	19	12	32.5	16	0.071
		12	<a href="#">1802 12 00</a>	22	14	34	17	0.093
		16	<a href="#">1802 16 00</a>	27	18	39.5	21	0.151

## 1804 Equal Tee

	Stainless steel 316L 	<b>ØD</b>		<b>F</b>	<b>J</b>	<b>L1</b>	<b>L/2</b>	<b>kg</b>
		6	<a href="#">1804 06 00</a>	13	8	13.5	25.5	0.040
		8	<a href="#">1804 08 00</a>	14	10	14.5	28.5	0.050
		10	<a href="#">1804 10 00</a>	19	12	16	32.5	0.103
		12	<a href="#">1804 12 00</a>	22	14	17	34	0.133
		16	<a href="#">1804 16 00</a>	27	18	21	39.5	0.214





# Complementary Stainless Steel Fittings

## Reducers, Olives and Nuts

This innovative reducer system, using a full range of nuts and olives, enables **different diameters** of stainless steel, fluoropolymer 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 3 different tube materials and sizes.
- Example:
- Advanced PE tubing 6 mm O.D.
  - stainless steel tubing 8 mm O.D.
  - fluoropolymer tubing 12 mm O.D. or braided PVC hose 10 mm I.D.
- A full range of olives and nuts to optimise all assembly operations

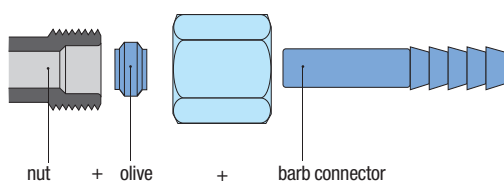


- Applications
- Food Process
  - Fluid Transmission
  - Pneumatics
  - Automotive Process
  - Petrochemical
  - Cooling & Heating
  - Chemical
  - Offshore Oil & Gas

### Reducer Assembly Procedure

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

### Assembly: Barb Connectors



#### 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

Our barb connector 1822 is designed to be also used with different types of hose. It is secured using the nut and olive provided with the fitting.

# Stainless Steel Compression Fittings

## 1866 3-Piece Reducer

	Stainless steel 316L		<b>ØD1</b>	<b>ØD2</b>		<b>F</b>	<b>kg</b>
			6	8	<a href="#">1866 06 08</a>	14	0.011
			6	10	<a href="#">1866 06 10</a>	19	0.028
				12	<a href="#">1866 06 12</a>	22	0.040
			8	10	<a href="#">1866 08 10</a>	19	0.026
				12	<a href="#">1866 08 12</a>	22	0.037
			10	16	<a href="#">1866 08 16</a>	27	0.071
				12	<a href="#">1866 10 12</a>	22	0.034
			12	16	<a href="#">1866 10 16</a>	27	0.065
				16	<a href="#">1866 12 16</a>	27	0.061

## 1824 Stainless Steel Olive

	Stainless steel 316L		<b>ØD</b>		<b>kg</b>
			6	<a href="#">1824 06 00</a>	0.001
			8	<a href="#">1824 08 00</a>	0.001
			10	<a href="#">1824 10 00</a>	0.003
			12	<a href="#">1824 12 00</a>	0.004
			16	<a href="#">1824 16 00</a>	0.005

## 1810 Stainless Steel Nut

	Stainless steel 316L		<b>ØD</b>	<b>C</b>		<b>F</b>	<b>L</b>	<b>kg</b>
			6	M10x1	<a href="#">1810 06 00</a>	13	11	0.007
			8	M12x1	<a href="#">1810 08 00</a>	14	13	0.008
			10	M16x1.5	<a href="#">1810 10 00</a>	19	15	0.017
			12	M18x1.5	<a href="#">1810 12 00</a>	22	15	0.024
			16	M22x1.5	<a href="#">1810 16 00</a>	27	17	0.041

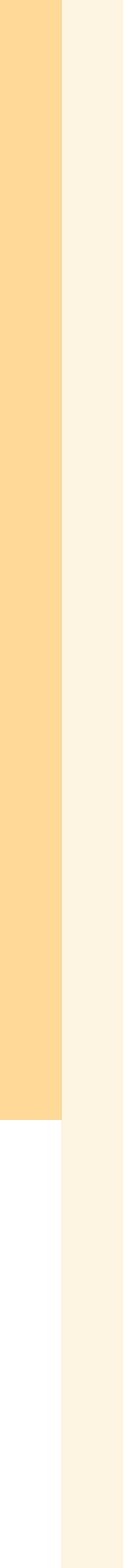
## 1822 Barb Adaptor for Hose

	Stainless steel 316L		<b>ØD1</b>	<b>ØD2</b>		<b>ØD3</b>	<b>L</b>	<b>L1</b>	<b>ØT min</b>	<b>kg</b>
			6	7	<a href="#">1822 06 07</a>	9	37.5	22.5	6	0.006
				6	<a href="#">1822 08 06</a>	8	40	22.5	5	0.007
			8	7	<a href="#">1822 08 07</a>	9	40	22.5	6	0.007
				10	<a href="#">1822 08 10</a>	12.5	40	22.5	9	0.011
			10	7	<a href="#">1822 10 07</a>	9	43	22.5	6	0.009
				10	<a href="#">1822 10 10</a>	12.5	43	22.5	9	0.013
			12	10	<a href="#">1822 12 10</a>	12.2	43	22.5	9	0.012
				13	<a href="#">1822 12 13</a>	15	50	29.5	13	0.016

## 1827 Stainless Steel Tube Support

	Stainless steel 316L		<b>ØD1</b>	<b>ØD2</b>		<b>L</b>	<b>kg</b>
			6	4	<a href="#">1827 06 00</a>	11.5	0.001
			8	6	<a href="#">1827 08 00</a>	14	0.001
			10	8	<a href="#">1827 10 00</a>	18	0.001
			12	9	<a href="#">1827 12 09</a>	18	0.001
				10	<a href="#">1827 12 00</a>	18	0.001
			16	14	<a href="#">1827 16 00</a>	18	0.002

This tube support is necessary when using fluoropolymer tubing at all temperatures compatible with the fitting/tubing assembly.



# PL Nickel-Plated Brass Spigot Fitting Range

## PL Nickel-Plated Brass Spigot Fittings

### Stud Fittings

<b>FBPL</b> NPT Page 5-43	<b>F3BPL</b> BSPT Page 5-43	<b>F4BPL</b> BSPP Page 5-43	<b>F8BPL</b> Metric Page 5-43	<b>CBPL</b> NPT Page 5-44	<b>C3BPL</b> BSPT Page 5-44
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<b>C4BPL</b> BSPP Page 5-44	<b>C8BPL</b> Metric Page 5-44	<b>RBPL</b> NPT Page 5-45	<b>R3BPL</b> BSPT Page 5-45	<b>SBPL</b> NPT Page 5-45	<b>S3BPL</b> BSPT Page 5-45
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### Banjo Fitting

**COR4BPL**  
BSPP  
Page 5-45



### Tube-to-Tube Fittings

<b>HBPL</b> Connector Page 5-46	<b>JBPL</b> Connector Page 5-46	<b>WBPL</b> Bulkhead Connector Page 5-46
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### Complementary Fitting

**BPLM**  
Nut  
Page 5-46



# PL Nickel-Plated Brass Spigot Fittings

This range of Parker Legris has a sealing system which guarantees **excellent sealing and full flow**. PL fittings for flexible tubing are **fully re-usable**. They provide excellent compatibility with a wide variety of fluids.

## Product Advantages

### Rapid Assembly

Nut design allows hand tightening with soft tubing (PU, PE etc.)  
Quick to assemble and disassemble  
Compatible with all flexible tubes of hardness up to 90 shore A (polyurethane, polyamide, polyethylene, fluoropolymers, etc.)  
Mechanical stop on the body to prevent overtightening

### Performance

Special spigot design ensures full flow and excellent tensile performance  
Reliable direct sealing system without the use of a seal or olive  
Low and medium pressure  
Nickel-plated for increased corrosion resistance



Applications

- Food Process
- Painting
- Pneumatic Systems
- Chemical
- Welding
- Laboratories
- Railway

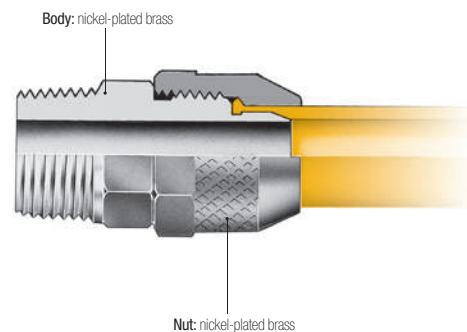
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: contact us
<b>Working Pressure</b>	Vacuum to 40 bar
<b>Working Temperature</b>	-40°C to +100°C

<b>Tensile Performance (polyamide tubing)</b>	Ø	2.7/4	4/6	6/8	7.5/10	8/10	10/12	11/14
	daN	11	41	52	88	67	79	149

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

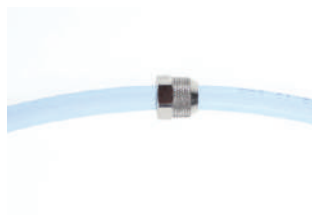
## Installation

### Cutting the Tube



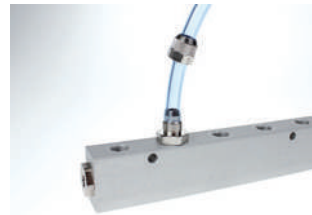
Cut the polymer tube square.

### Preparing the Connection



Slide the nut onto the tube.

### Connecting the Tube



Push the tube home into the body of the fitting.


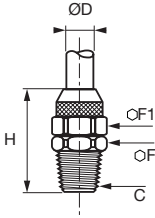

### Final Assembly




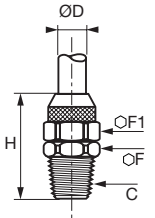

Tighten the nut by hand (in the case of soft tubing) or using a spanner (for semi-rigid tubing) until it comes into contact with the end stop.

# Stud Fittings


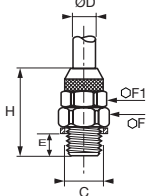

## FBPL Stud Fitting, Male NPT Thread

		<b>ØD</b> <b>C</b> 	<b>F</b>	<b>F1</b>	<b>H</b>	<b>kg</b>
		2.7x4    NPT1/8 <b>FBPL2.7/4-1/8</b> 4x6    NPT1/8 <b>FBPL4/6-1/8</b> 4x6    NPT1/4 <b>FBPL4/6-1/4aV</b> 6x8    NPT1/8 <b>FBPL6/8-1/8</b> 6x8    NPT1/4 <b>FBPL6/8-1/4</b> 8x10    NPT1/4 <b>FBPL8/10-1/4</b> 8x10    NPT3/8 <b>FBPL8/10-3/8</b> 10x12    NPT3/8 <b>FBPL10/12-3/8</b>				

## F3BPL Stud Fitting, Male BSPT Thread


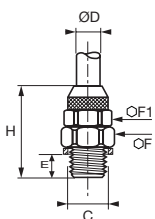

		<b>ØD</b> 	<b>F</b>	<b>F1</b>	<b>H</b>	<b>kg</b>
		2.7x4    R1/8 <b>F3BPL2.7/4-1/8</b> 4x6    R1/8 <b>F3BPL4/6-1/8</b> 4x6    R1/4 <b>F3BPL4/6-1/4</b> 6x8    R1/8 <b>F3BPL6/8-1/8</b> 6x8    R1/4 <b>F3BPL6/8-1/4</b> 6x8    R3/8 <b>F3BPL6/8-3/8</b> 7.5x10    R1/4 <b>F3BPL7.5/10-1/4</b> 7.5x10    R3/8 <b>F3BPL7.5/10-3/8</b> 8x10    R1/4 <b>F3BPL8/10-1/4</b> 8x10    R3/8 <b>F3BPL8/10-3/8</b> 10x12    R3/8 <b>F3BPL10/12-3/8</b> 11x14    R3/8 <b>F3BPL11/14-3/8</b>				

## F4BPL Stud Fitting, Male BSPP Thread

		<b>ØD</b> <b>C</b> 	<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>kg</b>
		4x6    G1/8 <b>F4BPL4/6-1/8</b> 6x8    G1/4 <b>F4BPL6/8-1/4</b>					

These fittings are supplied with a copper seal.

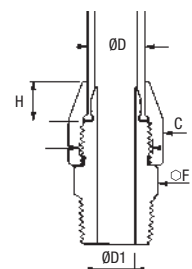
## F8BPL Stud Fitting, Male Metric Straight Thread

		<b>ØD</b> <b>C</b> 	<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>kg</b>
		6x8    M10x1 <b>F8BPL6/8M10</b> 6x8    M12x1.25 <b>F8BPL6/8M12</b>					

These fittings are supplied with a copper seal.


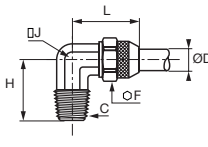

### Fitting Dimensions

D: Tube O.D. (mm)	C: Metric Thread	D1: Bore Diameter (mm)	F: Hex (mm)	H: Tube Insertion Length (mm)
4x2.7	M6x0.75	1.5	8	4.5
6x4	M9x0.75	3	11	6.5
8x6	M11x0.75	5	13	6.5
10x7.5	M13x1	6.5	17	7
10x8	M13x1	6.5	17	7
12x10	M15x1.25	9	17	7.5
14x11	M18x1.50	9.5	22	8.5


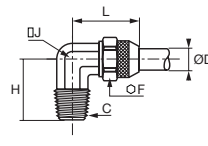



# Stud Fittings


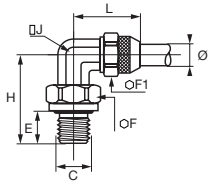

## CBPL Stud Elbow, Male NPT Thread

	<p>Nickel-plated brass</p> 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		2.7x4	NPT1/8	<a href="#">CBPL2.7/4-1/8</a>	8	18	8	22	0.019
		4x6	NPT1/8	<a href="#">CBPL4/6-1/8</a>	11	18	8	24	0.023
		4x6	NPT1/4	<a href="#">CBPL4/6-1/4</a>	11	23	10	25	0.036
		6x8	NPT1/8	<a href="#">CBPL6/8-1/8</a>	13	19	10	25	0.027
		6x8	NPT1/4	<a href="#">CBPL6/8-1/4</a>	13	23	10	25	0.034
		8x10	NPT1/4	<a href="#">CBPL8/10-1/4</a>	16	24	12	28	0.058
		8x10	NPT3/8	<a href="#">CBPL8/10-3/8</a>	16	25	12	28	0.059
		10x12	NPT3/8	<a href="#">CBPL10/12-3/8</a>	17	27	14	32	0.051

## C3BPL Stud Elbow, Male BSPT Thread


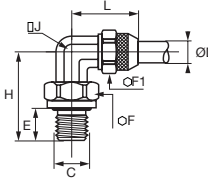

	<p>Nickel-plated brass</p> 	<b>ØD</b>	<b>C</b>		<b>F</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		2.7x4	R1/8	<a href="#">C3BPL2.7/4-1/8</a>	8	17	8	22	0.018
		4x6	R1/8	<a href="#">C3BPL4/6-1/8</a>	11	17	8	24	0.022
		4x6	R1/4	<a href="#">C3BPL4/6-1/4</a>	11	21.5	10	25	0.031
		6x8	R1/8	<a href="#">C3BPL6/8-1/8</a>	13	18	10	25	0.025
		6x8	R1/4	<a href="#">C3BPL6/8-1/4</a>	13	21.5	10	25	0.031
		6x8	R3/8	<a href="#">C3BPL6/8-3/8</a>	13	23.1	12	27	0.050
		7.5x10	R1/4	<a href="#">C3BPL7.5/10-1/4</a>	16	22.5	12	28	0.057
		7.5x10	R3/8	<a href="#">C3BPL7.5/10-3/8</a>	16	23.1	12	28	0.058
		8x10	R1/4	<a href="#">C3BPL8/10-1/4</a>	16	21.5	12	28	0.057
		8x10	R3/8	<a href="#">C3BPL8/10-3/8</a>	16	23.1	12	28	0.058
		10x12	R3/8	<a href="#">C3BPL10/12-3/8</a>	17	25.1	14	32	0.052
		11x14	R3/8	<a href="#">C3BPL11/14-3/8</a>	22	25.1	16	34	0.094

## C4BPL Stud Elbow, Male BSPP Thread

	<p>Nickel-plated brass, NBR</p> 	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		6x8	G1/4	<a href="#">C4BPL6/8-1/4</a>	7	13	13	27	12	27	0.063

These fittings are supplied with nitrile seals.

## C8BPL Stud Elbow, Male Metric Straight Thread


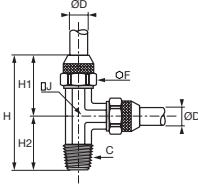

	<p>Nickel-plated brass, NBR</p> 	<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		6x8	M10x1	<a href="#">C8BPL6/8M10</a>	7	14	13	27.25	10	21.5	0.031
		6x8	M12x1	<a href="#">C8BPL6/8M12</a>	7	13	13	26	12	25	0.063

These fittings are supplied with nitrile seals.


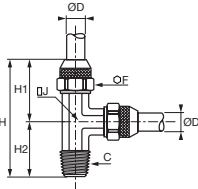



# Stud Fittings


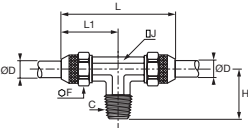

## RBPL Stud Run Tee, Male NPT Thread

		<b>ØD</b> <b>C</b> 	<b>F</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>J</b>	<b>kg</b>
		4x6 NPT1/8 <a href="#">RBPL4/6-1/8</a>	11	42	24	18	8	0.037
		4x6 NPT1/4 <a href="#">RBPL4/6-1/4</a>	11	48	25	23	10	0.050
		6x8 NPT1/4 <a href="#">RBLP6/8-1/4</a>	13	48	25	23	10	0.046


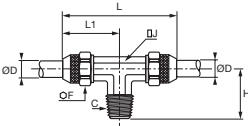

## R3BPL Stud Run Tee, Male BSPT Thread

		<b>ØD</b> <b>C</b> 	<b>F</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>J</b>	<b>kg</b>
		4x6 R1/8 <a href="#">R3BPL4/6-1/8</a>	11	42	24	17	8	0.035
		4x6 R1/4 <a href="#">R3BPL4/6-1/4</a>	11	48	25	21.5	10	0.048
		6x8 R1/8 <a href="#">R3BPL6/8-1/8</a>	13	44	25	18	10	0.037
6x8 R1/4 <a href="#">R3BLP6/8-1/4</a>	13	48	25	21.5	10	0.045		


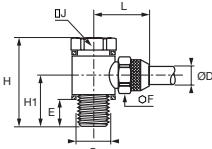

## SBPL Stud Branch Tee, Male NPT Thread

		<b>ØD</b> <b>C</b> 	<b>F</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		4x6 NPT1/8 <a href="#">SBPL4/6-1/8</a>	11	18	8	48	24	0.035
		4x6 NPT1/4 <a href="#">SBPL4/6-1/4</a>	11	23	10	50	25	0.050
		6x8 NPT1/4 <a href="#">SBPL6/8-1/4</a>	13	23	10	50	25	0.049

## S3BPL Branch Tee, Male BSPT Thread

		<b>ØD</b> <b>C</b> 	<b>F</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		4x6 R1/8 <a href="#">S3BPL4/6-1/8</a>	11	17	8	48	24	0.035
		4x6 R1/4 <a href="#">S3BPL4/6-1/4</a>	11	21.5	10	50	25	0.048
		6x8 R1/8 <a href="#">S3BPL6/8-1/8</a>	13	18	10	50	25	0.037
6x8 R1/4 <a href="#">S3BLP6/8-1/4</a>	13	21.5	10	50	25	0.045		

## COR4BPL Single Banjo, Male BSPP Thread


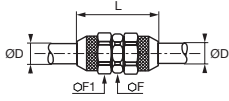

		<b>ØD</b> <b>C</b> 	<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		4x6 G1/8 <a href="#">COR4BPL4/6-1/8</a>	7	14	11	27	16	24	0.068
		4x6 G1/4 <a href="#">COR4BPL4/6-1/4</a>	8	19	11	29	17	26	0.096
		6x8 G1/8 <a href="#">COR4BPL6/8-1/8</a>	7	14	13	27	16	25	0.068
6x8 G1/4 <a href="#">COR4BLP6/8-1/4</a>	8	19	13	30	17	27	0.096		

These parts are supplied with peripheral seals.  
The banjo bolt is made of steel.

# PL Tube-to-Tube and Complementary Fittings


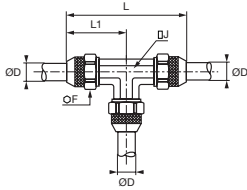

## HBPL

### Equal Tube-to-Tube Connector

	Nickel-plated brass 	ØD		F	F1	L	kg
		2.7x4	HBPL2.7/4	7	8	24	0.010
		4x6	HBPL4/6	10	11	30	0.021
		6x8	HBPL6/8	12	13	30	0.022
		8x10	HBPL8/10	14	16	32	0.043
		10x12	HBPL10/12	16	17	36	0.056
		11x14	HBPL11/14	19	22	40	0.087


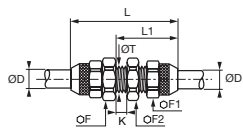

## JBPL

### Equal Tee

	Nickel-plated brass 	ØD		F	J	L	L1	kg
		2.7x4	JBPL2.7/4	8	8	44	22	0.024
		4x6	JBPL4/6	11	8	48	24	0.042
		6x8	JBPL6/8	13	10	50	25	0.045
		7.5x10	JBPL7.5/10	16	12	56	28	0.086
		8x10	JBPL8/10	16	12	56	28	0.085
		10x12	JBPL10/12	17	14	64	32	0.100
		11x14	JBPL11/14	22	16	68	34	0.168


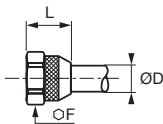

## WBPL

### Equal Bulkhead Connector

	Nickel-plated brass 	ØD		F	F1	F2	K <sub>max</sub>	L	L1	T <sub>min</sub>	kg
		4x6	WBPL4/6	13	11	13	5	39	22	M9x0.75	0.030
		6x8	WBPL6/8	14	13	16	5	39	22	M11x0.75	0.032
		8x10	WBPL8/10	16	16	17	5	43	24	M13x1	0.057
		10x12	WBPL10/12	19	17	19	5	46	26	M15x1.25	0.064
		11x14	WBPL11/14	22	22	22	5	50	28	M18x1.5	0.112

## BPLM

### Nut

	Nickel-plated brass 	ØD	C		F	L	kg
		2.7x4	M6x0.75	BPL4M	8	10	0.003
		4x6	M9x0.75	BPL6M	11	13	0.006
		6x8	M11x0.75	BPL8M	13	13	0.008
		7.5x10	M13x1	BPL10M	16	14	0.014
		8x10	M13x1	BPL10M	16	14	0.014
		10x12	M15x1.25	BPL12M	17	16	0.012
		11x14	M18x1.5	BPL14M	22	18	0.025



# Industrial Valves

## **Ball Valves**

LIQUIfit®

## **Needle and Butterfly Valves**

## **Axial Valves**



# Industrial Valves

## Ball Valves, Universal Series

(P. 6-8)



**Fluids:** compressed air, slightly corrosive fluids

**Materials:** nickel-plated forged brass

**Pressure:** 40 bar

**Temperature:** -20°C to +80°C

**DN** : 4 mm to 40 mm

## Ball Valves, Universal Series, Vented

(P. 6-13)



**Fluids:** compressed air, slightly corrosive fluids

**Materials:** nickel-plated forged brass

**Pressure:** 40 bar

**Temperature:** -20°C to +80°C

**DN** : 4 mm to 23 mm

## Ball Valves, Universal Series, Lockable

(P. 6-15)



**Fluids:** compressed air, slightly corrosive fluids

**Materials:** nickel-plated forged brass, galvanised steel and epoxy locking system

**Pressure:** 40 bar

**Temperature:** -20°C to +80°C

**DN** : 4 mm to 23 mm

## Ball Valves, Universal Customised Series

(P. 6-9)



**Fluids:** compressed air, many fluids

**Materials:** nickel-plated forged brass, choice of seal material (NBR, EPDM, FKM, PTFE...)

**Pressure:** 40 bar

**Temperature:** -20°C to +100°C

**DN** : 4 mm to 40 mm

## Ball Valves, Universal Light Series

(P. 6-16)



**Fluids:** compressed air, slightly corrosive fluids

**Materials:** forged brass or nickel-plated forged brass

**Pressure:** 12 bar

**Temperature:** -20°C to +80°C

**DN** : 4 mm to 13 mm

## Ball Valves, DVGW Series

(P. 6-20)



**Fluids:** compressed air, water, gas

**Materials:** nickel-plated forged brass

**Pressure:** 40 bar

**Temperature:** -40°C to +170°C

**DN** : 8 mm to 50 mm

## Ball Valves, Standard Series

(P. 6-22)



**Fluids:** compatible fluids

**Materials:** nickel or chromium-plated brass with PTFE seal

**Pressure:** 35 bar

**Temperature:** -20°C to +130°C

**DN** : 8 mm to 100 mm

## Ball Valves, Stainless Steel Series

(P. 6-28)



**Fluids:** all fluids

**Materials:** 316L stainless steel

**Pressure:** 65 bar

**Temperature:** -20°C to +150°C

**DN** : 8 mm to 50 mm

## Ball Valves, Stainless Steel Light Series

(P. 6-28)



**Fluids:** all fluids

**Materials:** 316L stainless steel

**Pressure:** 65 bar

**Temperature:** -20°C to +120°C

**DN** : 4 mm to 10 mm

# Industrial Valves

## Ball Valves, High Pressure Series

[P. 6-30]



**Fluids:** lubricants, gases  
**Materials:** zinc-plated brass  
**Pressure:** 300 bar  
**Temperature:** -15°C to +80°C  
**DN** : 7 mm to 13 mm

## Ball Valves, Mini Series

[P. 6-32]



**Fluids:** compressed air  
**Materials:** technical polymer  
**Pressure:** 10 bar  
**Temperature:** -20°C to +80°C  
**DN** : 4 mm to 12 mm

## Ball Valves, LIQUIfit®

[P. 6-34]



**Fluids:** water, beverages, CO<sub>2</sub>, inert gases  
**Materials:** polypropylene, EPDM seal  
**Pressure:** 10 bar  
**Temperature:** -15°C to +100°C  
**Tube Ø:** 1/4" and 3/8"

## Needle Valves, Brass

[P. 6-37]



**Fluids:** compressed air, industrial fluids  
**Materials:** shot-blasted forged brass, nickel-plated  
**Pressure:** 120 bar  
**Temperature:** -20°C to +100°C  
**DN** : 4 mm to 10 mm

## Needle Valves, Stainless Steel

[P. 6-41]



**Fluids:** all fluids  
**Materials:** 316L stainless steel  
**Pressure:** 400 bar  
**Temperature:** -20°C to +180°C  
**DN** : 3 mm to 6 mm

## Butterfly Valves

[P. 6-42]



**Fluids:** compressed air, abrasive fluids  
**Materials:** shot-blasted forged brass, nickel-plated  
**Pressure:** 16 bar  
**Temperature:** -20°C to +80°C  
**DN** : 6 mm to 18 mm

## Axial Valves

[P. 6-45]



**Fluids:** compressed air, industrial fluids  
**Materials:** nickel-plated brass  
**Pressure:** 10 bar  
**Temperature:** -20°C to +135°C  
**Threads :** 3/8" to 2"

# Ball Valve Range

## Universal and Universal Customised Series

### In-Line

**0402** 2/2 Page 6-10    **0401** 2/2 Page 6-10    **0400** 2/2 Page 6-10    **0411** 2/2 Page 6-10    **0414** 2/2 Page 6-10



### In-Line with Fixing Holes and Panel Mounting

**0446** 2/2 Page 6-11    **6402** 2/2 Page 6-11    **6401** 2/2 Page 6-11



### Right-Angled

**0472** 2/2 Page 6-11    **0471** 2/2 Page 6-11



### In-Line, 3-Way

**0482** 3/3 Page 6-12    **0483** 3/3 Page 6-12



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

**0448** 3/3 Page 6-12    **0452** 3/2 Page 6-12



## Universal Series, Vented

### In-Line

**0489** 3/2 Page 6-13    **0449** 3/2 Page 6-13    **0469** 3/2 Page 6-13



### Right-Angled

**0462** 3/2 Page 6-14    **0461** 3/2 Page 6-14



## Universal Lockable Series

### In-Line

**0432** 2/2 Page 6-15



### In-Line, Vented

**0439** 3/2 Page 6-15    **0436** 3/2 Page 6-15    **0437** 3/2 Page 6-15



### In-Line, 3-Way

**0438** 3/2 Page 6-15



## Universal Light Series

### In-Line

**0492** 2/2 Page 6-17    **0491** 2/2 Page 6-17    **0490** 2/2 Page 6-17



### In-Line, Vented

**0494** 2/2 Page 6-18



### In-Line with Square Stem

**0497** 2/2 Page 6-18    **0496** 2/2 Page 6-18





# Ball Valve Range

## DVGW Series

### In-Line

#### BVG4-L

2/2  
Page 6-21



#### BVGT4-L

2/2  
Page 6-21



## Standard Series

### In-Line

#### 4902

2/2  
Page 6-23



#### BVGT4-C

2/2  
Page 6-23



### Compact

#### 4991

2/2  
Page 6-23



#### 4992

2/2  
Page 6-23



### In-Line, Lockable

#### BVG4-LOCK

2/2  
Page 6-24



### In-Line, Lockable, Vented

#### BVG4P-LOCK

3/2  
Page 6-24



## Stainless Steel Series

### In-Line

#### 4832

Mountable and dismountable  
2/2  
Page 6-29



#### 4812

Mountable  
2/2  
Page 6-29



#### 4810

One-Piece Construction  
2/2  
Page 6-29



#### 0465

Light Series  
2/2  
Page 6-29



## High Pressure Series

### In-Line

#### 4402

2/2  
Page 6-31



## Mini Series

### In-Line

#### 7910

2/2  
Page 6-33



#### 7911

2/2  
Page 6-33



### In-Line, Vented and Accessories

#### 7913

3/2  
Page 6-33



#### 7914

3/2  
Page 6-33



#### 7000

Page 6-33



## LIQUIfit®

### In-Line

#### 4020

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Page 6-35



#### 4021

2/2  
Page 6-35



#### 4023

2/2  
Page 6-35



### Right-Angled

#### 4022

2/2  
Page 6-35



### Accessories

#### 3130

Page 6-35



# 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



Pneumatics  
Vacuum  
Transportation  
Packaging  
Textile  
Sawmill  
Rubber & Plastics

Applications

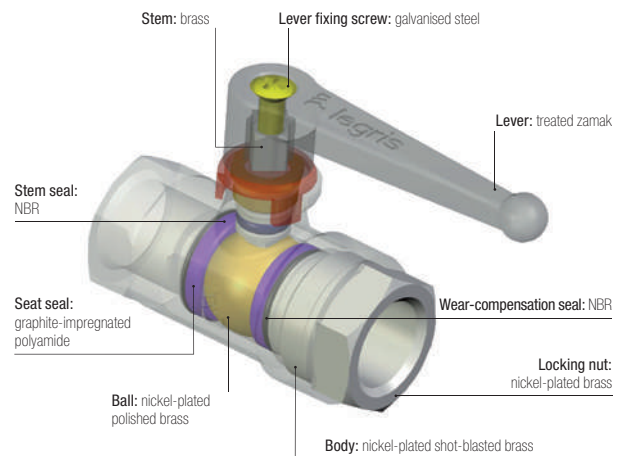
## Technical Characteristics

<b>Compatible Fluids</b>	Industrial fluids
<b>Working Pressure</b>	Vacuum to 40 bar
<b>Working Temperature</b>	-20°C to + 80°C

<b>Tightening Torques</b>	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 Series

## Installation Options

### Lockable Valves

Our lockable ball valves have been developed in order to prevent potentially dangerous consequences caused by unintended operation. Lockable in different positions, this range meets international safety requirements, such as ISO 4414.

The valves are lockable:

- at one point: models 0432 and 0439
- at three points: models 0437 and 0438

### Vented Valves

To stop fluid circulation and vent the circuit, 2 venting systems are provided:

- with threaded exhaust, to allow discharge of downstream media
- with pin-hole vent, for applications with no special discharge requirement

Fluid flow direction is indicated by an arrow on the valve body.

### Mountable Valves

On steel plate:

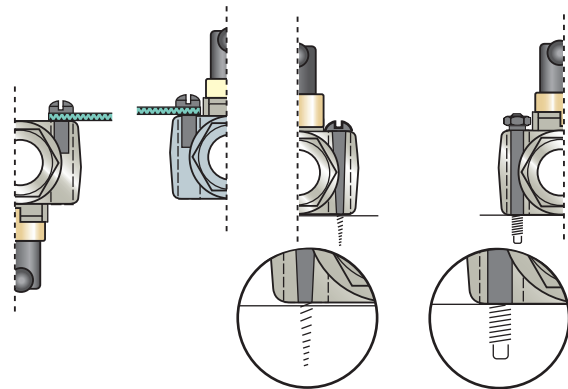
- bulkhead fixing
- complete valve below bulkhead

On frame:

- assemble with bolts

On wooden panel:

- assemble with woodscrews



### Universal Customised Valve Series

Based on the standard components of the universal series, this range allows the valve to be adapted to specific needs. There are 6 product versions available on request.

#### Product Codes

Valve type	0402 04 10 22		
0400	DN	Thread	Suffix
0401			
0402	04 = 4 mm	10 = 1/8"	20 = blue/red
...	05 = 5 mm	13 = 1/4"	22 = green/blue
	...	...	26 = yellow/yellow
	40 = 40 mm	48 = 2"	27 = blue/green
			30 = white/red
			32 = white/green

#### Identification

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



#### Suffix Specification

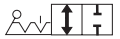
Identification		Body		Lever			Ball		Stem and Wear-Compensation Seals			Seat Seals			Application Examples
Suffix on the body	Colour bands on the lever	Nickel-plated brass	Chemical nickel-plated brass	Standard	Nickel-plated brass	Chemical nickel-plated brass	Nickel-plated polished brass	Chemical nickel-plated brass	EPDM	FKM	PTFE white	Rilsan: graphite-impregnated	Filled PTFE	PTFE white	
20	Blue, Red	•		•			•			•		•			Hydrocarbons
22	Green, Blue	•		•				•		•			•		Industrial fluids and high temperature
26*	Yellow, Yellow	•			•			•			•	olive		•	Corrosive liquids or high temperature
27	Blue, Green		•			•		•		•			•		Industrial fluids and/or harsh environments
30**	White, Red	•		•			•		•			•			Gaseous oxygen circuits
32	White, Green	•		•			•		•				•		Water and steam circuits

\*degreased \*\*oxygen-compatible grease

A usage chart in this chapter shows which type of valve to use according to the fluid being conveyed.

# Universal and Universal Customised Series

## 0402 2/2 In-Line Ball Valve, Female BSPP Thread



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

\*Models with CE marking  
Maximum working pressure: 40 bar

## 0401 2/2 In-Line Ball Valve, Male/Female BSPP Thread



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

\*Models with CE marking  
Maximum working pressure: 40 bar

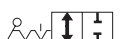
## 0400 2/2 In-Line Ball Valve, Male BSPP Thread



	Nickel-plated brass, NBR		<b>C</b>	<b>E</b>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
			G1/8	4	<a href="#">0400 04 10</a>	7	14	35	29	14	45	25	48	0.094
			G1/4	7	<a href="#">0400 07 13</a>	9	19	38	31	19	60	36	48	0.166
			G3/8	10	<a href="#">0400 10 17</a>	11	24	45	43	24	70	43	69	0.252
			G1/2	13	<a href="#">0400 13 21</a>	12	27	47	44	27	78	45	69	0.324
			G3/4	18	<a href="#">0400 18 27</a>	12	38	63	54	39	90	50	108	0.714

Maximum working pressure: 40 bar

## 0411 2/2 In-Line Ball Valve with Connections for Use with Steel Tube



	Nickel-plated brass, NBR		<b>ØD</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
			6	4	<a href="#">0411 04 06</a>	14	19	38	31	19	76	30	48	0.073
			8	6	<a href="#">0411 06 08</a>	17	19	38	31	19	77	30	48	0.095
			10	7	<a href="#">0411 07 10</a>	19	19	38	31	19	78	31	48	0.100
			12	10	<a href="#">0411 10 12</a>	22	24	45	43	24	85	36	69	0.110

Maximum working pressure: 40 bar

## 0414 2/2 In-Line Ball Valve with Compression Connections



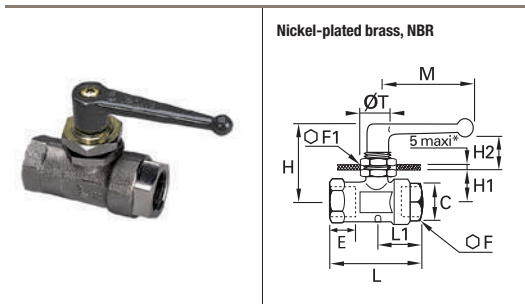
	Nickel-plated brass, NBR		<b>ØD</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
			6	4	<a href="#">0414 04 06</a>	13	19	38	31	19	72	31	48	0.177
			8	6	<a href="#">0414 06 08</a>	14	19	38	31	19	74	30	48	0.180
			10	7	<a href="#">0414 07 10</a>	19	19	38	31	19	78	31	48	0.210
			12	10	<a href="#">0414 10 12</a>	22	24	45	43	24	86	36	69	0.308

Maximum working pressure: 40 bar

# Universal and Universal Customised Series

**0446**

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

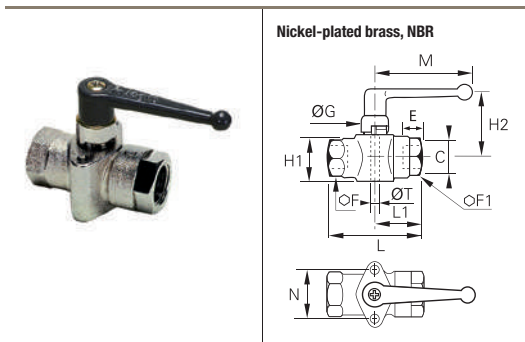


	C	DN		E	F	F1	H	H1	H2	L	L1	M	ØT	kg
G1/8	4		<a href="#">0446 04 10</a>	8	14	22	37	14	12	44	25	48	16.5	0.112
G1/4	7		<a href="#">0446 07 13</a>	12	19	24	45	19	14	53	28	48	20.5	0.188
G3/8	10		<a href="#">0446 10 17</a>	12	24	27	50	21	21	59	31	69	20.5	0.294
G1/2	13		<a href="#">0446 13 21</a>	15	27	27	51	23	21	67	34	69	20.5	0.338

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

**6402**

2/2 In-Line Ball Valve for Screw Fixing, Female BSPP Thread

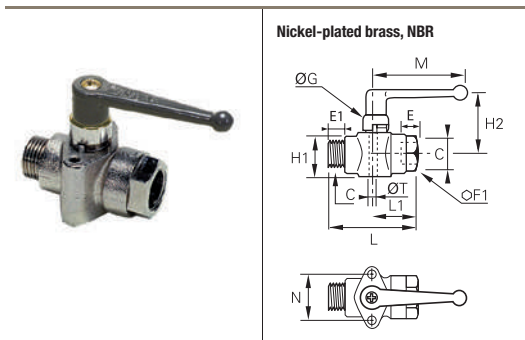


	C	DN		E	F	F1	G	H1	H2	L	L1	M	N	ØT	kg
G1/8	4		<a href="#">6402 04 10</a>	8	14	14	18	18	30	44	25	48	25	4x70	0.132
G1/4	7		<a href="#">6402 07 13</a>	12	19	19	19	24	31	53	28	48	31	5x80	0.216
G3/8	10		<a href="#">6402 10 17</a>	12	24	24	20	30	45	59	31	69	31	5x80	0.324
G1/2	13		<a href="#">6402 13 21</a>	15	27	27	20	34	47	67	34	69	34	6x100	0.404
G3/4	20		<a href="#">6402 20 27</a>	16.5	32	38	27	44	52	80	39	108	43	8x125	0.830
G1	23		<a href="#">6402 23 34</a>	19	41	46	27	53	56	94	47	108	51	8x125	1.290

Maximum working pressure: 40 bar

**6401**

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

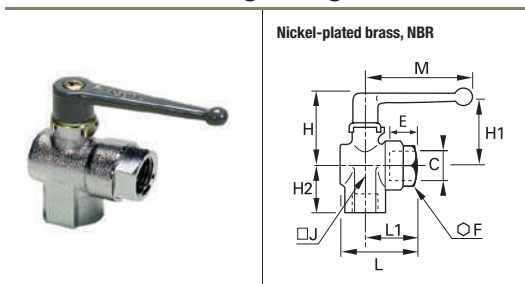


	C	DN		E	E1	F	G	H1	H2	L	L1	M	N	ØT	kg
G1/8	4		<a href="#">6401 04 10</a>	8	7	14	18	18	30	45	25	48	25	4x70	0.127
G1/4	7		<a href="#">6401 07 13</a>	12	9	19	19	24	31	52	28	48	31	5x80	0.212
G3/8	10		<a href="#">6401 10 17</a>	12	11	24	20	30	45	58	31	69	31	5x80	0.306
G1/2	13		<a href="#">6401 13 21</a>	15	12	27	20	34	47	67	34	69	34	6x100	0.394

Maximum working pressure: 40 bar

**0472**

2/2 Right-Angled Ball Valve, Female BSPP Thread

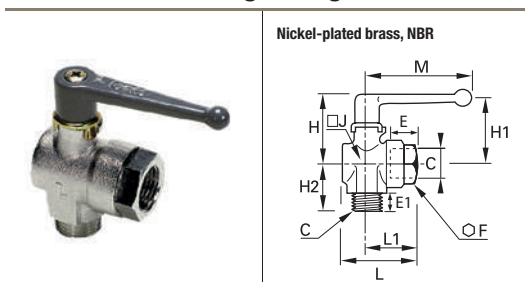


	C	DN		E	F	H	H1	H2	J	L	L1	M	kg
G1/8	4		<a href="#">0472 04 10</a>	8	14	35	29	18	14	34	25	48	0.096
	6		<a href="#">0472 06 10</a>	8	19	38	31	20	22	37	27	48	0.183
G1/4	6		<a href="#">0472 06 13</a>	12	19	38	31	24	22	38	28	48	0.191
G3/8	9		<a href="#">0472 09 17</a>	12	24	45	43	27	25	46	31	69	0.260
G1/2	12		<a href="#">0472 12 21</a>	15	27	47	44	33	29	49	34	69	0.312
G3/4	18		<a href="#">0472 18 27</a>	16.5	38	59	51	40	39	60	39	108	0.704
G1	23		<a href="#">0472 23 34</a>	19	46	63	55	47	48	72	47	108	1.062

Maximum working pressure: 20 bar

**0471**

2/2 Right-Angled Ball Valve, Male/Female BSPP Thread



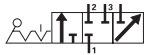
	C	DN		E	E1	F	H	H1	H2	J	L	L1	M	kg
G1/8	4		<a href="#">0471 04 10</a>	8	7	14	35	29	19	14	34	25	48	0.096
	6		<a href="#">0471 06 10</a>	8	7	19	38	31	22	22	37	27	48	0.182
G1/4	6		<a href="#">0471 06 13</a>	12	9	19	38	31	25	22	38	28	48	0.187
G3/8	9		<a href="#">0471 09 17</a>	12	11	24	45	43	28	25	46	31	69	0.256
G1/2	12		<a href="#">0471 12 21</a>	15	12	27	47	44	32	29	49	34	69	0.300
G3/4	18		<a href="#">0471 18 27</a>	16.5	12	38	59	51	37	39	60	39	108	0.682
G1	23		<a href="#">0471 23 34</a>	19	15	46	63	55	44	48	72	47	108	1.020


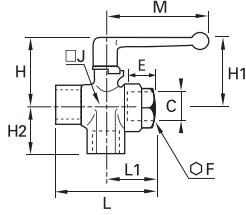

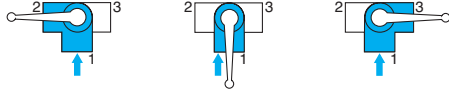
Maximum working pressure: 20 bar

Ball Valves  
Industrial Valves

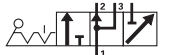
# Universal and Universal Customised Series


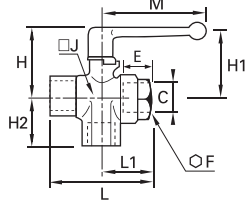

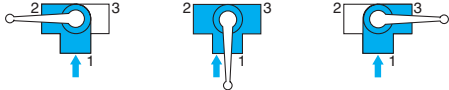
## 0482 3/3 Right-Angle Ported Ball Valve, Female BSPP Thread



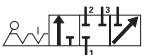
	Nickel-plated brass, NBR 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>
		G1/8	4	<a href="#">0482 04 10</a>	8	14	35	29	18	14	44	25	48	0.103
		G1/4	6	<a href="#">0482 06 13</a>	12	19	38	31	24	22	53	28	48	0.200
		G3/8	9	<a href="#">0482 09 17</a>	12	24	45	43	27	25	59	31	69	0.284
		G1/2	12	<a href="#">0482 12 21</a>	15	27	47	44	33	29	67	34	69	0.346
		G3/4	18	<a href="#">0482 18 27</a>	16.5	38	59	51	40	39	80	39	108	0.742
		G1	23	<a href="#">0482 23 34</a>	19	46	63	55	47	48	94	47	108	1.160
Maximum working pressure: 20 bar  <p style="text-align: center;"><b>Closed</b></p>														


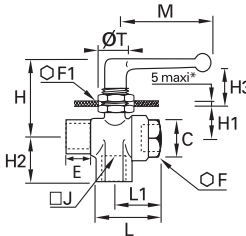

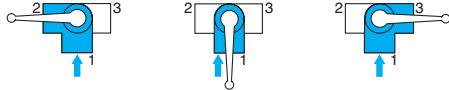
## 0483 3/3 Right-Angle Ported Ball Valve without Closed Position, Female BSPP Thread



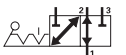
	Nickel-plated brass, NBR 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>
		G1/8	4	<a href="#">0483 04 10</a>	8	14	35	29	18	14	44	25	48	0.102
		G1/4	6	<a href="#">0483 06 13</a>	12	19	38	31	24	22	53	28	48	0.196
		G3/8	9	<a href="#">0483 09 17</a>	12	24	45	43	27	25	59	31	69	0.278
		G1/2	12	<a href="#">0483 12 21</a>	15	27	47	44	33	29	67	34	69	0.340
		G3/4	18	<a href="#">0483 18 27</a>	16.5	38	59	51	40	39	80	39	108	0.716
		G1	23	<a href="#">0483 23 34</a>	19	46	63	55	47	48	94	47	108	1.066
Maximum working pressure: 20 bar 														


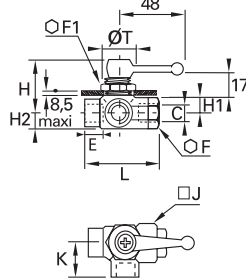

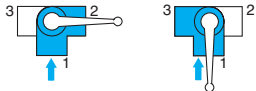
## 0448 3/2 Panel-Mountable Right-Angled Ball Valve, Female BSPP Thread



	Nickel-plated brass, NBR 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>ØT</b>	<b>kg</b>		
		G1/8	4	<a href="#">0448 04 10</a>	8	14	22	37	14	18	12	14	44	25	48	16.5	0.126		
		G1/4	6	<a href="#">0448 06 13</a>	12	19	24	45	19	24	14	22	53	28	48	20.5	0.230		
		G3/8	9	<a href="#">0448 09 17</a>	12	24	27	50	21	27	21	25	59	31	69	20.5	0.328		
		G1/2	12	<a href="#">0448 12 21</a>	15	27	27	51	23	33	21	29	67	34	69	20.5	0.392		
		Maximum working pressure: 20 bar *For G1/8 version: maximum panel thickness = 3 mm  <p style="text-align: center;"><b>Closed</b></p>																	

## 0452 3/2 Panel-Mountable Equal Plane Ball Valve, Female BSPP Thread

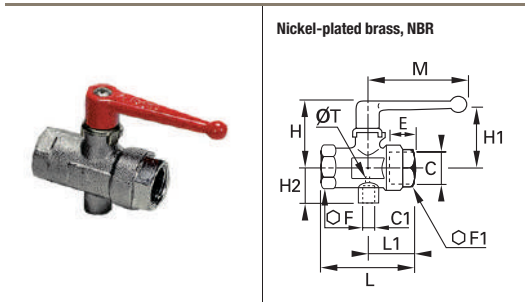


	Nickel-plated brass, NBR 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>ØT</b>	<b>kg</b>
		G1/8	4	<a href="#">0452 04 10</a>	8	14	22	39	10	8	16	18	25	19	0.130
		G1/4	6	<a href="#">0452 06 13</a>	12	19	24	40	11	11	23	24	28	20	0.206
Maximum working pressure: 20 bar 															

# Universal Series, Vented

**0489**

**3/2 In-Line Vented Ball Valve, Female BSPP and Metric Thread**

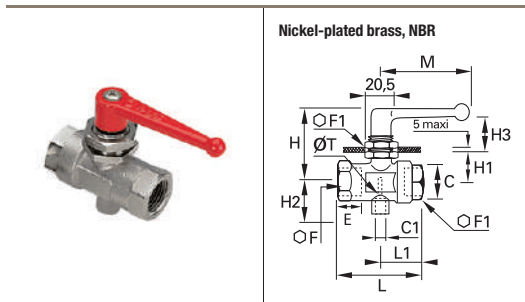


C	C1	DN		E	F	F1	H	H1	H2	L	L1	M	ØT	kg
G1/4	M5x0.8	7	<a href="#">0489 07 13</a>	12	24	24	46	43	17	59	31	69	2	0.270
G3/8	M5x0.8	10	<a href="#">0489 10 17</a>	12	24	24	46	43	17	59	31	69	2	0.243
G1/2	G1/8	13	<a href="#">0489 13 21</a>	15	27	27	47	44	24	67	34	69	2	0.310
G3/4	G1/4	18	<a href="#">0489 18 27</a>	16.5	32	38	63	54	33	80	39	108	2.5	0.670
G1	G1/4	23	<a href="#">0489 23 34</a>	19	41	46	67	57	37	94	47	108	3	1.050

Maximum working pressure: 40 bar

**0449**

**3/2 Panel-Mountable In-Line Ball Valve, Female BSPP and Metric Thread**

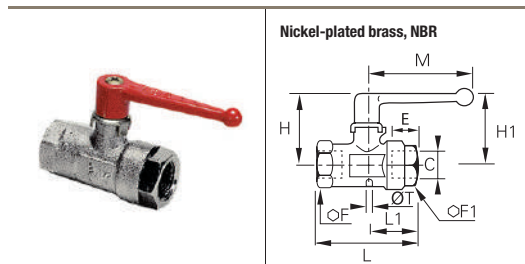


C	C1	DN		E	F	F1	H	H1	H2	H3	L	L1	M	ØT	kg
G1/4	M5x0.8	7	<a href="#">0449 07 13</a>	12	24	27	50	20	17	21	59	31	69	2.5	0.313
G3/8	M5x0.8	10	<a href="#">0449 10 17</a>	12	24	27	50	20	17	21	59	31	69	2.5	0.291
G1/2	G1/8	13	<a href="#">0449 13 21</a>	15	27	27	52	23	24	21	67	34	69	4	0.352

Maximum working pressure: 20 bar

**0469**

**3/2 In-Line Vented Ball Valve, Female BSPP Thread**



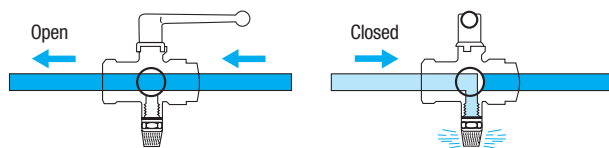
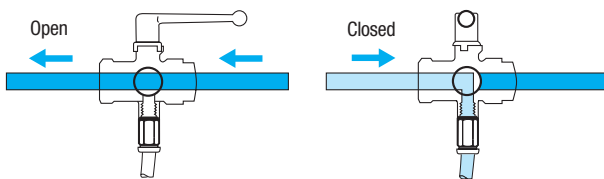
C	DN		E	F	F1	H	H1	L	L1	M	ØT	kg
G1/8	4	<a href="#">0469 04 10</a>	8	14	14	35	29	44	25	48	1.5	0.092
G1/4	7	<a href="#">0469 07 13</a>	12	24	24	46	43	59	31	70	2	0.268
G3/8	10	<a href="#">0469 10 17</a>	12	24	24	46	43	59	31	70	2	0.246
G1/2	13	<a href="#">0469 13 21</a>	15	27	27	47	44	67	34	70	2	0.294
G3/4	18	<a href="#">0469 18 27</a>	16.5	32	38	63	54	80	39	108	2.5	0.668
G1	23	<a href="#">0469 23 34</a>	19	41	46	67	57	94	47	108	3	1.026

Maximum working pressure: 40 bar

## Operation of Vented Ball Valves

With vent connected to a tube = collection of purged media

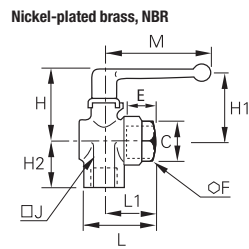
With vent connected to a silencer = noiseless discharge to atmosphere



You will find our ranges of fittings, tubing and silencers in Chapters 1, 3 and 9.

# Universal Series, Vented

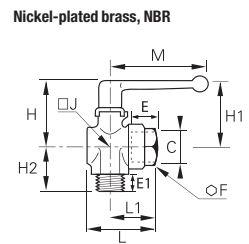
## 0462 3/2 Right-Angled Ball Valve with Vent, Female BSPP Thread



C	DN		E	F	H	H1	H2	J	L	L1	M	kg
G1/8	6	0462 06 10	8	19	38	31	20	22	37	27	48	0.192
G1/4	6	0462 06 13	12	19	38	31	24	22	38	28	48	0.185
G3/8	9	0462 09 17	12	24	45	43	27	25	46	31	69	0.261
G1/2	12	0462 12 21	15	27	47	44	33	29	49	34	69	0.312
G3/4	18	0462 18 27	16.5	38	59	51	40	39	60	39	108	0.698
G1	23	0462 23 34	19	46	63	55	47	48	72	47	108	1.066

Maximum working pressure: 20 bar

## 0461 3/2 Right-Angled Ball Valve with Vent, Male/Female BSPP Thread

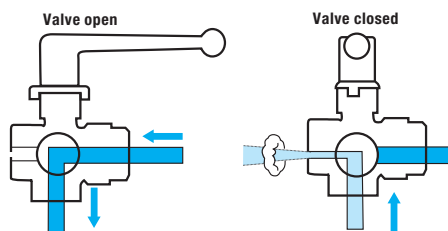


C	DN		E	E1	F	H	H1	H2	J	L	L1	M	kg
G1/8	6	0461 06 10	8	7	19	38	31	20	22	37	27	48	0.182
G1/4	6	0461 06 13	12	9	19	38	31	24	22	38	28	48	0.186
G3/8	9	0461 09 17	12	11	24	45	43	27	25	46	31	69	0.257
G1/2	12	0461 12 21	15	12	27	47	44	33	29	49	34	69	0.304
G3/4	18	0461 18 27	16.5	12	38	59	51	40	39	60	39	108	0.648

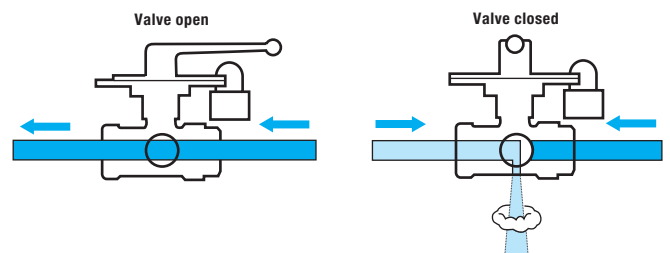
Maximum working pressure: 20 bar

### Operation of Right-Angled Vented Ball Valves

With pin-hole vent = purge to atmosphere without silencer



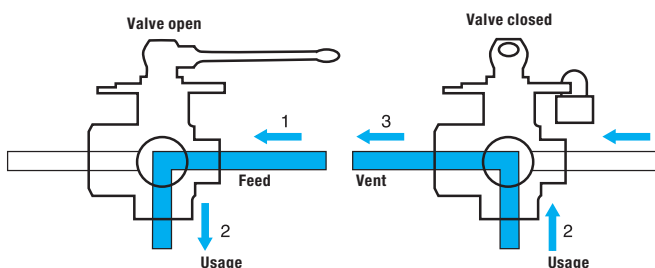
### Operation of Lockable Vented Ball Valves



**Removable lever:** where the lever is obstructed in its movement, it can be refitted the opposite way.

### Operation of 3/2 Lockable Valves

Drilled below and square in the horizontal plane, these valves provide a connection between: either port 1 and port 2, or port 2 and port 3.

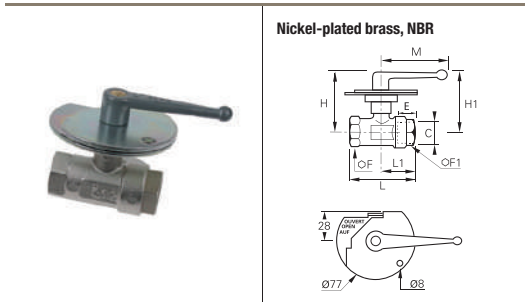
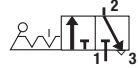


**Removable lever:** where the lever is obstructed in its movement, it can be refitted the opposite way.



# Universal Series, Lockable

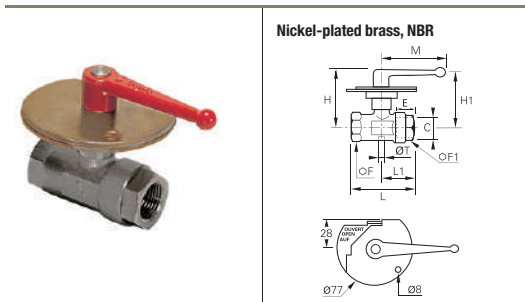
## 0432 2/2 In-Line Lockable Ball Valve, Female BSPP Thread



C	DN		E	F	F1	H	H1	L	L1	M	kg
G1/8	4	0432 04 10	8	19	19	59	54	51	27	69	0.415
G1/4	7	0432 07 13	12	19	19	59	54	59	28	69	0.396
G3/8	10	0432 10 17	12	24	24	60	55	59	31	69	0.460
G1/2	13	0432 13 21	15	27	27	62	57	67	34	69	0.522
G3/4	20	0432 20 27	16.5	32	38	66	56	80	39	108	0.800
G1	23	0432 23 34	19	41	46	70	59	94	47	108	1.186

Maximum working pressure: 40 bar  
 Handle is not removable.  
 Fixed and mobile plates: zinc-plated steel.

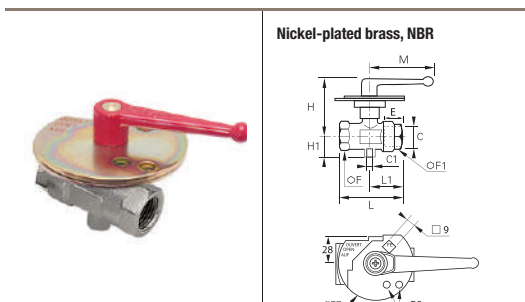
## 0439 3/2 In-line Vented Lockable Ball Valve, Female BSPP Thread



C	DN		E	F	F1	H	H1	L	L1	M	ØT	kg
G1/8	4	0439 04 10	8	19	19	59	54	51	27	69	2	0.410
G1/4	7	0439 07 13	12	19	24	60	55	59	31	69	2	0.480
G3/8	10	0439 10 17	12	24	24	60	55	59	31	69	2	0.460
G1/2	13	0439 13 21	15	27	27	62	57	67	34	69	2	0.514
G3/4	18	0439 18 27	16.5	32	38	66	56	80	39	108	2.5	0.810
G1	23	0439 23 34	19	41	46	70	59	94	47	108	3	1.185

Maximum working pressure: 40 bar  
 Handle is not removable.  
 Fixed and mobile plates: zinc-plated steel.

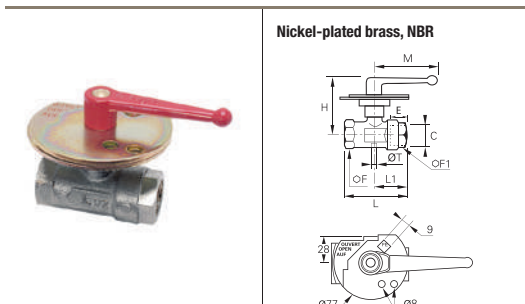
## 0436 3/2 In-Line Lockable Ball Valve with Threaded Exhaust Port, Female BSPP and Metric Thread



C	C1	DN		E	F	F1	H	H1	L	L1	M	kg
G3/8	M5x0.8	10	0436 10 17	12	24	24	60	17	60	32	69	0.475
G1/2	G1/8	13	0436 13 21	15	27	27	60	24.5	67.5	34.5	69	0.500
G3/4	G1/4	18	0436 18 27	16.5	32	38	69.5	33	80	39.5	108	0.850
G1	G1/4	23	0436 23 34	19	32	38	69.5	33	80	39.5	108	1.215

Maximum working pressure: 40 bar  
 Handle is not removable.  
 Fixed and mobile plates: zinc-plated steel.

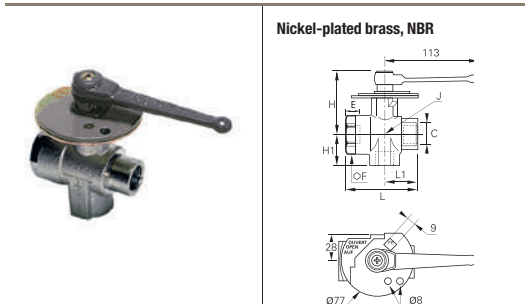
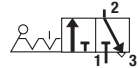
## 0437 3/2 In-line Vented 3-Point Lockable Ball Valve, Female BSPP Thread



C	DN		E	F	F1	H	L	L1	M	ØT	kg
G1/4	7	0437 07 13	12	24	24	60	59	32	69.5	2	0.476
G3/8	10	0437 10 17	12	24	24	60	60	32	69.5	2	0.456
G1/2	13	0437 13 21	15	27	27	60	67.5	34.5	69.5	2	0.510
G3/4	18	0437 18 27	16.5	32	38	69.5	80	39.5	108.5	2.5	0.820
G1	23	0437 23 34	19	41	46	73	94.5	47.5	108.5	3	1.192

Maximum working pressure: 40 bar  
 Handle is not removable.  
 Fixed and mobile plates: zinc-plated steel.

## 0438 3/2 Right-Angled 3-Point Lockable Ball Valve, Female BSPP Thread



C	DN		E	F	H	H1	J	L	L1	kg
G3/8	9	0438 09 17	12	38	76	34	39	73	35	0.970
G1/2	12	0438 12 21	15	38	76	37	39	78	38	0.947
G3/4	18	0438 18 27	16.5	38	76	40	39	80	40	0.905
G1	23	0438 23 34	19	46	80	47	48	94	47	1.295

Maximum working pressure: 20 bar  
 Fixed plate: zinc-plated steel, mobile plate: steel, grey epoxy-coated.  
 Removable handle: where the handle is obstructed in its movement, it can be refitted opposite the original position.

# Ball Valves, Universal Light Series

Using the Universal Series technology, the Parker Legris light series valves offer the advantages of **compactness**, **ease of operation** and **long-term reliability**.

## Product Advantages

<b>Easy-to-Use</b>	Ease of operation due to the low friction design The short levers may be repositioned and exchanged Extremely compact Wide range of configurations
<b>Maximum Efficiency</b>	Excellent performance under vacuum Full flow Chemical nickel-plated brass with high phosphorous content for outstanding corrosion resistance Automatic seal wear compensation system
<b>Reliability</b>	Tried-and-tested technology Forged brass provides mechanical strength and long service life 100% leak-tested in production Date coding to guarantee quality and traceability



**Applications**

- Vacuum
- Transportation
- Packaging
- Textile
- Pneumatics
- Sawmills
- Rubber & Plastics

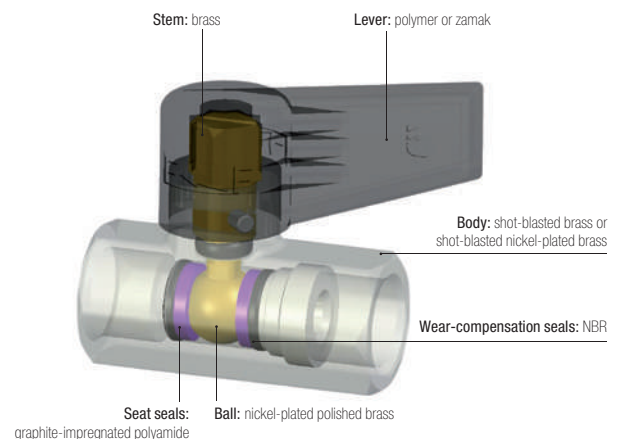
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: see compatibility chart at the end of this chapter
<b>Working Pressure</b>	Vacuum to 12 bar
<b>Working Temperature</b>	-20°C to +80°C

<b>Tightening Torques</b>	<b>Threads</b>	G1/8	G1/4	G3/8	G1/2	G3/4
	<b>daN.m</b>	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

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



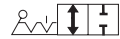
### Silicone-free

### 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)

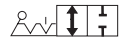
# Universal Light Series

## 0492 2/2 In-Line Ball Valve, Female BSPP Thread



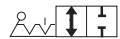
	Nickel-plated brass, NBR 	<b>C</b>	<b>E</b>	<b>F</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
		G1/4	4	<a href="#">0492 04 13</a>	9	17	34	39.5	17	35	0.073
		G3/8	7	<a href="#">0492 07 17</a>	11	22	38	45	20	43	0.128
		G1/2	10	<a href="#">0492 10 21</a>	12	24	44	54	25	50	0.162
		G3/4	13	<a href="#">0492 13 27</a>	14	30	46	62	28	50	0.240
Technical polymer handle											

## 0492..64 2/2 In-Line Ball Valve, Short Handle, Female BSPP Thread



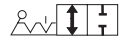
	Nickel-plated brass, NBR 	<b>C</b>	<b>E</b>	<b>F</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
		G1/4	4	<a href="#">0492 04 13 64</a>	9	17	36	39.5	17	25	0.090
		Short handle in zamak									

## 0491 2/2 In-Line Ball Valve, Male/Female BSPP Thread



	Nickel-plated brass, NBR 	<b>C</b>	<b>E</b>	<b>E1</b>	<b>F</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
		G1/4	4	<a href="#">0491 04 13</a>	9	7	17	34	39.5	17	35	0.070
		G3/8	7	<a href="#">0491 07 17</a>	11	8	22	38	45	20	43	0.124
		G1/2	10	<a href="#">0491 10 21</a>	12	10	24	44	53	24	50	0.160
		G3/4	13	<a href="#">0491 13 27</a>	14	12	30	46	59	25	50	0.238
Technical polymer handle												

## 0491..64 2/2 In-Line Ball Valve, Short Handle, Male/Female BSPP Thread



	Nickel-plated brass, NBR 	<b>C</b>	<b>E</b>	<b>E1</b>	<b>F</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
		G1/4	4	<a href="#">0491 04 13 64</a>	9	7	17	36	39.5	17	25	0.092
		Short handle in zamak										

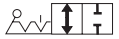
## 0490 2/2 In-Line Ball Valve, Male BSPP Thread


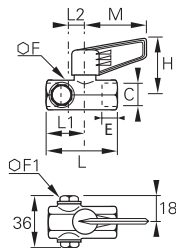




	Nickel-plated brass, NBR 	<b>C</b>	<b>E</b>	<b>F</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>M</b>	<b>kg</b>		
		G1/4	4	<a href="#">0490 04 13</a>	7	17	34	39	17	35	0.070
		G3/8	7	<a href="#">0490 07 17</a>	8	22	38	44	20	43	0.109
		G1/2	10	<a href="#">0490 10 21</a>	10	24	44	53	24	50	0.160
		G3/4	13	<a href="#">0490 13 27</a>	12	30	46	59	25	50	0.233
Technical polymer handle											

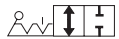
# Universal Light Series


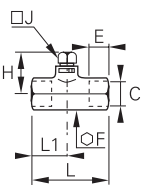


## 0494 2/2 In-Line Ball Valve, 2 Vent Plugs, Female BSPP Thread



	<p>Nickel-plated brass, NBR</p> 	<p><b>C</b>  </p>	<b>E</b>	<b>F</b>	<b>F1</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>M</b>	<b>kg</b>
		<p>G3/8 7 <a href="#">0494 07 17</a></p> <p>Technical polymer handle</p>	11	22	16	38	60	20	15	43	0.178


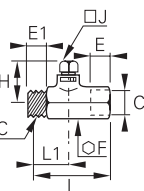


## 0497 2/2 Ball Valve, Square Stem, Female BSPP Thread



	<p>Brass, NBR</p> 	<p><b>C</b>  </p>	<b>E</b>	<b>F</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		<p>G1/4 4 <a href="#">0497 04 13</a></p> <p>G3/8 7 <a href="#">0497 07 17</a></p> <p>G1/2 10 <a href="#">0497 10 21</a></p> <p>G3/4 13 <a href="#">0497 13 27</a></p>	9	17	25	7	39	17	0.066
			11	22	26	7	45	20	0.122
			12	24	29	10	54	25	0.148
			14	30	30	10	62	28	0.230

## 0496 2/2 Ball Valve, Square Stem, Male/Female BSPP Thread



	<p>Brass, NBR</p> 	<p><b>C</b>  </p>	<b>E</b>	<b>E1</b>	<b>F</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		<p>G1/4 4 <a href="#">0496 04 13</a></p> <p>G3/8 7 <a href="#">0496 07 17</a></p> <p>G1/2 10 <a href="#">0496 10 21</a></p> <p>G3/4 13 <a href="#">0496 13 27</a></p>	7	9	17	25	7	39	17	0.065
			8	11	22	26	7	45	20	0.118
			10	12	24	29	10	53	24	0.150
			12	14	30	30	10	59	28	0.222



# Ball Valves, DVGW Series

The combination of long threads, a reinforced sealing system and **DVGW** certification makes this valve perfect for the **transmission of gas and water**.

## Product Advantages

### Reliability & Sealing

Stem prevented from being ejected in the event of overpressure  
Two stem seals to prevent leakage  
Date coding to guarantee quality and traceability

### Optimum Performance

Full flow minimises pressure drop  
Nickel-plated brass provides improved corrosion resistance and increased chemical compatibility  
Can be operated at very low temperatures

### Long Threads

Excellent fitting compatibility:

- dimensions compliant with DIN 3357
- BSPP threads compliant with DIN 2999/ISO 228



Robotics  
Pneumatics  
Water & Gas Handling  
Machine Tools  
Textile  
Wood Industry

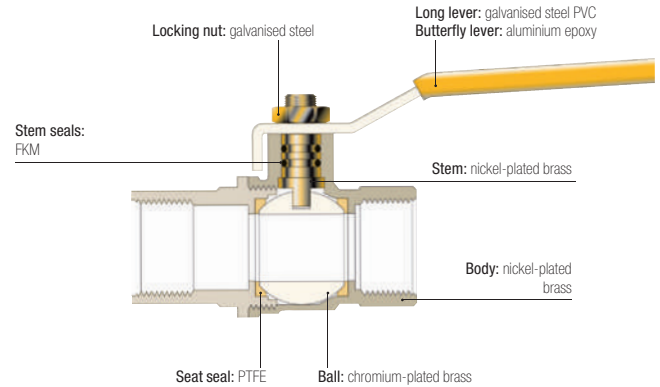
Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air, water, gas
<b>Working Pressure</b>	1/4" to 2": 0 to 40 bar
<b>Working Temperature</b>	-40°C to +170°C

Reliable performance is dependent upon the type of fluid conveyed.

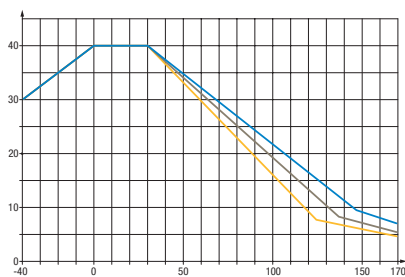
### Component Materials



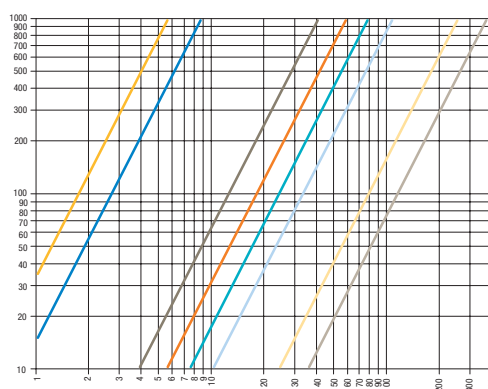
### Silicone-free

### Working Pressure and Temperature

#### Pressure - Temperature



#### Pressure Drop



### Regulations

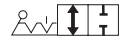
**Industrial**  
DI: 97/23/EC  
(PED B+D module EC 1115)

**Water**  
DVGW: W 570-1  
DIN EN 13228  
BGA KTW  
DVGW: W270

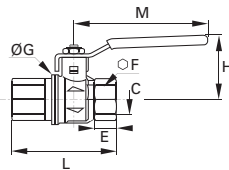
**Gas**  
DIN EN 33

# DVGW Series

## BVG4-L 2/2 In-Line Ball Valve, Female BSPP Thread



Nickel-plated brass, PTFE

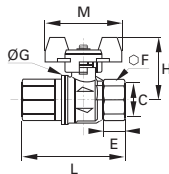


C	DN		E	F	ØG	H	L	M	kg
G1/4	8	<a href="#">BVG4-1/4L</a>	12	20	25	38	50	82	0.150
G3/8	10	<a href="#">BVG4-3/8L</a>	12	20	25	38	60	82	0.150
G1/2	15	<a href="#">BVG4-1/2L</a>	15.5	25	32.5	43	75	100	0.255
G3/4	20	<a href="#">BVG4-3/4L</a>	17	32	39	50	80	120	0.390
G1	25	<a href="#">BVG4-1L</a>	21	41	47.5	54	90	120	0.590
G1¼	32	<a href="#">BVG4-1,1/4L</a>	23	50	59	73	110	158	0.980
G1½	40	<a href="#">BVG4-1,1/2/4L</a>	23	55	71.5	79	120	158	1.205
G2	50	<a href="#">BVG4-2L</a>	26.5	70	86	86	140	158	1.960

## BVGT4-L 2/2 In-Line Ball Valve, Female BSPP Thread



Nickel-plated brass, PTFE



C	DN		E	F	ØG	H	L	M	kg
G1/4	8	<a href="#">BVGT4-1/4L</a>	12	20	25	39	50	50	0.150
G3/8	10	<a href="#">BVGT4-3/8L</a>	12	20	25	39	60	50	0.150
G1/2	15	<a href="#">BVGT4-1/2L</a>	15.5	25	32.5	43	75	50	0.230
G3/4	20	<a href="#">BVGT4-3/4L</a>	17	32	39	47	80	60	0.350
G1	25	<a href="#">BVGT4-1L</a>	21	41	47.5	51	90	60	0.550

Compact lever

# Ball Valves, Standard Series

This range of valves with **fluoropolymer seals**, available in compact, standard and lockable series, covers many **industrial applications** for which the fluids conveyed and working temperatures require this seal material.

## Product Advantages

**Optimised Installation**

- Full fluid flow
- Long or butterfly lever
- Corrosion resistance
- A lockable version for operational safety
- Good value/performance ratio

**Wide Compatibility**

- Numerous compatible fluids
- Can be used for low and medium pressure applications
- Surface treatment for corrosion protection



**Applications**

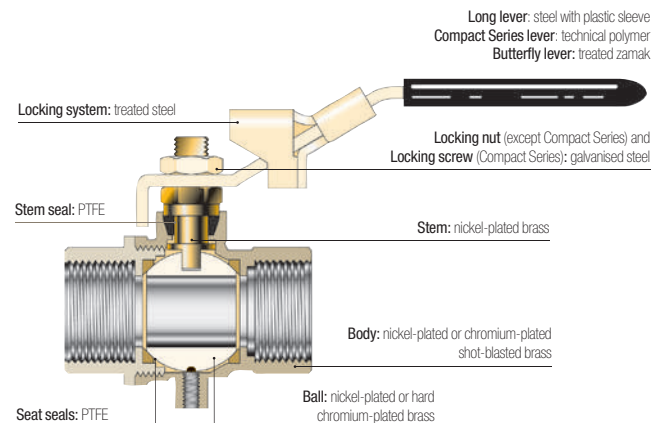
- Machine Tool
- Agricultural Machinery
- Textile
- Pneumatics
- Plumbing
- Air Conditioning
- Heating

## Technical Characteristics

Model	Standard and Lockable Series	Compact Series
Compatible Fluids	Compressed air, gas, water, water vapour, oil and all fluids compatible with the component materials	
Working Pressure	0 to 30 bar	0 to 35 bar
Working Temperature	-20°C to +130°C	-10°C to +90°C

Reliable performance is dependent upon the type of fluid conveyed.

### Component Materials



### Silicone-free

### Regulations

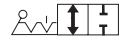
**Industrial**  
**DI:** 97/23/EC (module PED A - EC diameters greater than 25 mm)  
**DI:** Machinery Directive 2006/42/EC  
**DI:** 2002/95/EC (RoHS)  
**RG:** 1907/2006 (REACH)  
**DI:** 89/392/EC



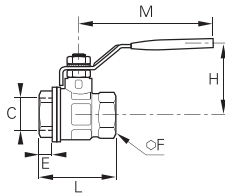
# Standard Series

**4902**

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



Nickel-plated brass, PTFE

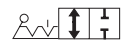


C	DN		PN	E	F	H	L	M	kg
G1/4	10	<a href="#">4902 10 13</a>	30	11	20	43	51.5	98	0.154
G3/8	10	<a href="#">4902 10 17</a>	30	11.4	20	43	51.5	98	0.138
G1/2	15	<a href="#">4902 15 21</a>	30	13.5	25	47	55	98	0.202
G3/4	20	<a href="#">4902 20 27</a>	30	12.5	31	58	57.5	122	0.322
G1	25	<a href="#">4902 25 34</a>	30	15	38	60	69.5	122	0.468
G1¼	32	<a href="#">4902 32 42*</a>	25	17	48	77	81.5	153	0.794
G1½	40	<a href="#">4902 40 49*</a>	25	18	54	83	95	153	1.082
G2	50	<a href="#">4902 50 48*</a>	25	22	66	95	113	162	1.787
G2½	65	<a href="#">4902 65 47*</a>	30	22	85	132	136	255	4.500
G3	80	<a href="#">4902 80 46*</a>	30	25	99	140	157	255	5.840
G4	100	<a href="#">4902 01 45*</a>	30	29	125	154	191	255	9.040

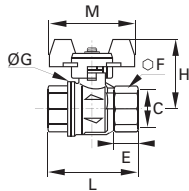
\*Models with CE marking  
Model from 2½": double stem seal in FPM  
Working temperature: -40°C to +170°C

**BVGT4-C**

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



Sand-blasted nickel-plated brass, PTFE



C	DN		E	F	G	H	L	M	kg
G1/4	8	<a href="#">BVGT4-1/4C</a>	9	20	25	40	39	50	0.130
G3/8	10	<a href="#">BVGT4-3/8C</a>	9	20	25	40	39	50	0.120
G1/2	15	<a href="#">BVGT4-1/2C</a>	11	25	32.5	44	50	50	0.180
G3/4	20	<a href="#">BVGT4-3/4C</a>	12	31	39	49	54	50	0.265
G1	25	<a href="#">BVGT4-1C</a>	14	38	47.5	53	67	50	0.390

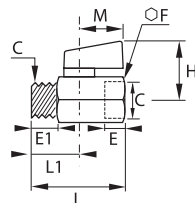
Compact lever

**4991**

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



Chromium-plated brass, PTFE



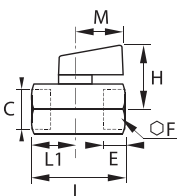
C	DN		E	E1	F	H	L	L1	M	kg
G1/8	6	<a href="#">4991 00 10</a>	10	10	21	30	41.5	10	24	0.091
G1/4	8	<a href="#">4991 00 13</a>	11	11	21	30	41.5	11	24	0.087
G3/8	8	<a href="#">4991 00 17</a>	11	11	21	30	41.5	10.5	24	0.087
G1/2	10	<a href="#">4991 00 21</a>	13	13	25	32	49	12.5	24	0.134

**4992**

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



Chromium-plated brass, PTFE

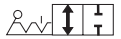


C	DN		E	F	H	L	L1	M	kg
G1/8	6	<a href="#">4992 00 10</a>	10	21	30	41.5	10	24	0.110
G1/4	8	<a href="#">4992 00 13</a>	11	21	30	41.5	11	24	0.106
G3/8	8	<a href="#">4992 00 17</a>	11	21	30	41.5	10.5	24	0.094
G1/2	10	<a href="#">4992 00 21</a>	13	25	32	49	12.5	24	0.142

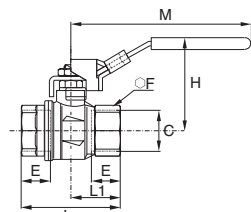
# Standard Series

## BVG4-LOCK

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



Sand-blasted nickel-plated brass,  
PTFE



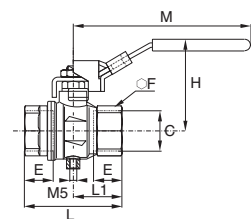
C	DN		E	F	H	L	L1	M	kg
G1/4	8	<b>BVG4-1/4LOCK</b>	12	20	47.5	45	22.5	96	0.154
G3/8	10	<b>BVG4-3/8LOCK</b>	12	20	47.5	45	22.5	96	0.171
G1/2	15	<b>BVG4-1/2LOCK</b>	15.5	25	52	59	29.5	96	0.238
G3/4	20	<b>BVG4-3/4LOCK</b>	17	31	59.5	64	32	117	0.370
G1	25	<b>BVG4-1LOCK</b>	21	40	63.5	81	40.5	117	0.580

## BVG4P-LOCK

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



Sand-blasted nickel-plated brass,  
PTFE



C	DN		E	F	H	L	L1	M	kg
G1/4	8	<b>BVG4P-1/4LOCK</b>	12	20	47.5	45	22.5	96	0.155
G3/8	10	<b>BVG4P-3/8LOCK</b>	12	20	47.5	45	22.5	96	0.172
G1/2	15	<b>BVG4P-1/2LOCK</b>	15.5	25	52	59	29.5	96	0.239
G3/4	20	<b>BVG4P-3/4LOCK</b>	17	31	59.5	64	32	117	0.371
G1	25	<b>BVG4P-1LOCK</b>	21	40	63.5	81	40.5	117	0.581

# Ball Valves: Usage Chart

The chart below shows the compatibility between valves and fluids along with their pressure and temperature characteristics.

Certain models have a maximum working pressure which differs from that given in this table. In this case, the pressure is shown in the heading for the model number in question.

N.B.: Above 32 mm or 1¼" diameters, divide the maximum pressure by 2.

If the fluid you are using is not shown in this chart, please contact us.

Chemical Description	Maximum Pressure (bar)	Temperature °C		Universal and Light Series	Standard Series	DVGW series	Customised Series							
		Min.	Max.				20	22	26	27	30	32		
"Aromatic" hydrocarbons	20	-20	+60					●						
Acetone and other ketones	20	-20	+60											●
Acetophenone	20	-20	+60											●
Acetylene - Acetone	20	-20	+60											●
Acetylene (gas)	20	-20	+60	●	●	●								
Alcohol (100%)	20	-20	Boiling											●
Aluminium (liquid suspension, thick)	40	-20	+90	●	●	●								
Amyl alcohol	20	-20	Boiling											●
Animal fats, greases	20	+5	+200		●	●			●					
Antifreeze or glycol (diluted)	40	-20	+40	●	●	●								
Argon (gas) Ar	20	-20	+60	●	●	●								
Barium - Hydroxide	20	-20	+40											●
Benzaldehyde	20	-20	+60											●
Benzene	20	-20	+60					●						
Benzyl alcohol	20	-20	Boiling					●						
Borax (pastes or solutions)	20	-20	+60											●
Brake fluids (automobile)	20	-20	+90											●
Bromochlorotrifluorethane	20	-20	+60		●	●			●					
Butadiene (hydrocarbon)	20	-20	+60									●		
Butane	20	-20	+60	●	●	●								
Butanol	20	-20	Boiling					●						
Butyl alcohol	20	-20	Boiling					●						
Butylene (hydrocarbon)	20	-20	+60					●						
Carbon dioxide gas CO <sub>2</sub>	40	-20	+60	●	●									
Castor oil	40	-20	+90	●	●									
Compressed air	20	-25	+180					●						
Creosotes	20	-20	+60									●		
Cresols	20	-20	+60									●		
Crude oil	20	-20	+40					●						
Cutting oil	40	-20	+90	●	●									
Decalin (hydrocarbon, solvent)	20	-20	+60									●		
Detergents (solutions)	20	-20	+100											●
Diacetone alcohol	20	-20	Boiling											●
Diesel oils	40	-20	+90	●	●									
Di-Esters	20	-20	+90					●						
Di-Isobutylene	20	-20	+60									●		
Di-Pentane	20	-20	+60					●						

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

# Ball Valves: Usage Chart

Chemical Description	Max. Pressure (bar)	Temperature °C		Universal and Light Series	Standard Series	DVGW Series	Customised Series						
		Min.	Max.				20	22	26	27	30	32	
Di-Pentene (solvents, varnish)	20	-20	+60					●					
Di-Phenyl-Oxide (thin detergents)	20	-20	+60								●		
Distilled water	40		+90	●	●	●							
Edible fats	20	+5	+200		●					●			
Edible oils	20	+5	+200		●					●			
Erytrene (see Butadiene)	20	-20	+60								●		
Ethane (gas) CH <sub>2</sub> CH <sub>3</sub>	20	-20	+60	●	●								
Ethane (hydrocarbon gas)	20	-20	+60								●		
Ethyl alcohol	20	-20	+60										●
Ethylene glycol (antifreeze) - see Glycols	20	-20	+120										●
Fatty alcohols	20	-20	Boiling					●					
Fuel oils	40	-20	+40	●	●	●							
Fuels-Diesels	40	-20	+40	●	●								
Gaseous oxygen (ambient air)	20	-20	+40										●
Glycerine	20	-20	+40	●	●								
Glycol (for antifreeze, lubricants)	40	-20	+40	●	●								
Graphite in suspension in water, oils and greases	40	-20	+90	●	●								
Greases (from petroleum)	40	-20	+90	●	●								
Helium (gas)	20	-20	+60										●
Heptanal	20	-20	+50	●	●								
Hexane (solvent)	20	-20	+60										●
Hydraulic oils (petroleum-based)	40	-20	+90	●	●								
Hydrogen (gas)	20	-20	+60										●
Inks	20	-20	+60									●	
Insecticides	20	0	+40	●	●	●							
Iso-Butane (aliphatic hydrocarbon)	20	-20	+60									●	
Iso-Octane	20	-20	+60									●	
Isopropyl alcohol	20	-20	Boiling										●
Krypton (gas) Kr	20	-20	+60	●	●	●							
Light water	40		+80	●	●	●							
Lighting gas	20	-20	+40			●							
Methane (gas) CH <sub>4</sub>	20	-20	+60	●	●	●							
Methanol	20	-20	Boiling										●
Methyl alcohol	20	-20	Boiling										●
Methylated spirit	40	-20	+40	●	●	●							
Mineral oils	40	-20	+90	●	●								
Natural gas	20	-20	+40			●							
Natural waxes (vegetable, beeswax, carnauba, Chinese, lignite)	40	-20	+90									●	
Neatsfoot oil	40	-20	+90	●	●	●							
Neon (Gas) Ne	20	-20	+60	●	●	●							
Nitrogen (gas) N <sup>2</sup>	40	-20	+90	●	●	●							
Oil (petroleum-based) and water emulsions	40	-20	+90	●	●	●							

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



# Ball Valves, Stainless Steel Series

**Stainless steel** series ball valves can withstand **corrosive fluids** and **environments**.

With full flow, high pressure and temperature capabilities, these valves are suitable for many applications.

## Product Advantages

**Reliability** | Full flow  
 Excellent chemical compatibility  
 High resistance to pressure/temperature  
 Light series version: 100% leak-tested in production, date coding to guarantee quality and traceability

**Versatility** | Three in-line versions:  
 • One-piece: cannot be disassembled  
 • 3-piece: easily disassembled for maintenance and cleaning  
 • Light Series: for maximum compactness  
 Fixing plate: 4812 and 4832  
 • Through-bulkhead fitting  
 • Pneumatic or electronic actuation (ISO 5211 standard)



**Applications**

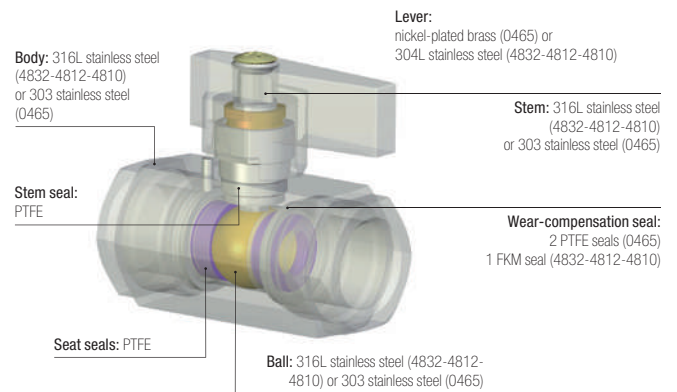
Food Process  
 Aviation  
 Chemical  
 Semi-Conductors  
 Medical  
 Petrochemical  
 Laboratories  
 Pharmaceutical

## Technical Characteristics

Compatible Fluids	Type 4810, 4812 and 4832	Type 0465
	All fluids	All fluids
Working Pressure	0 to 65 bar	Vacuum to 20 bar
Working Temperature	-20°C to +150°C	-20°C to +120°C

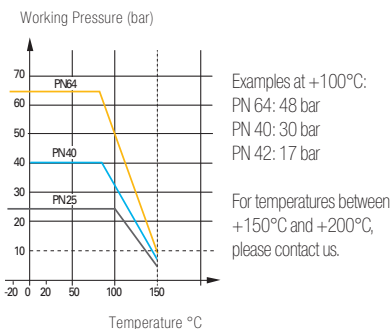
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.  
 Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

### Component Materials

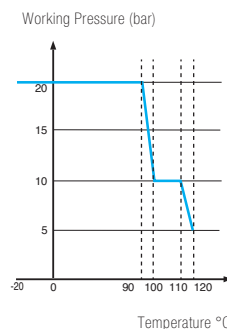


### Pressure and Temperature Resistance

#### Version 4810, 4812 and 4832



#### Version 0465



### Regulations

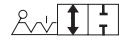
#### Industrial

**DI:** 97/23/EC (module PED A - EC diameters greater than 25 mm)  
**DI:** Machinery Directive 2006/42/EC  
**DI:** 2002/95/EC (RoHS)  
**RG:** 1907/2006 (REACH)  
**DI:** 89/392/EC

# Stainless Steel Series

**4832**

2/2 In-Line 3-Piece Ball Valve with Fixing Plate, Female BSPP Thread



Stainless steel 316L, PTFE		C	DN		E	F	G	H	K	L	M	ØT	kg
		G1/4	10	4832 10 13	18	22	36	50	36	57	110.5	5.5	0.272
		G3/8	10	4832 10 17	18	22	36	50	36	57	110.5	5.5	0.400
		G1/2	15	4832 15 21	20.5	27	36	64	36	65	131.5	6	0.442
		G3/4	20	4832 20 27	22.5	32	42	68	42	76	131.5	5.5	0.568
		G1	25	4832 25 34	27	41	42	78.5	42	92	174.5	6	1.035
		G1¼	32	4832 32 42*	30	50	42	83.5	42	106.5	174.5	5.5	1.530
		G1½	40	4832 40 49*	31	55	50	100	50	116	250.5	6.5	2.146
		G2	50	4832 50 48*	36	70	50	107	50	136	250.5	6.5	3.140

\*Models with CE marking

**4812**

2/2 In-Line Ball Valve with Fixing Plate, Female BSPP Thread



Stainless steel 316L, PTFE		C	DN		E	G	H	L	M	ØT	kg
		G1/4	10	4812 10 13	10	36	50	55	110	5.5	0.263
		G3/8	10	4812 10 17	11	36	50	55	110	5.5	0.254
		G1/2	15	4812 15 21	15	36	53	66	110	5.5	0.336
		G3/4	20	4812 20 27	16	42	67	79	130	5.5	0.574
		G1	25	4812 25 34	19	42	79	93	175	5.5	1.000
		G1¼	32	4812 32 42*	21	42	83	100	175	5.5	1.337
		G1½	40	4812 40 49*	21	50	100	110	250	5.5	2.214
		G2	50	4812 50 48*	26	70	107	131	250	8.5	3.262

\*Models with CE marking

**4810**

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



Stainless steel 316L, PTFE		C	DN		E	G	H	L	M	kg
		G1/4	8	4810 08 13	10	30	44.5	53.5	110.5	0.205
		G3/8	10	4810 10 17	10	30	44.5	53.5	110.5	0.194
		G1/2	15	4810 15 21	13	32.5	47	60	110.5	0.245
		G3/4	20	4810 20 27	14	40	54.5	70	131.5	0.420
		G1	25	4810 25 34	17	49	58.5	79	131.5	0.648

Threads conform to ISO 228-1

**0465**

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



Stainless steel 303, PTFE		C	DN		E	F	F1	H	L	kg
		G1/4	4	0465 04 13	13	19	24	36	50	0.226
		G3/8	7	0465 07 17	13	24	27	39	55	0.278
		G1/2	10	0465 10 21	16	27	30	40	62	0.322

Silicone-free

# Ball Valves, High Pressure Series

These valves are suitable for **applications** with pressures **up to 300 bar**. High performance materials and quality manufacturing allow for a wide range of operating pressures and temperatures.

## Product Advantages

### High Pressure & Safety

Good sealing at low and high pressure  
Robust design with secure, non-removable inlet and outlet ports  
Forged brass providing excellent long-term strength under severe conditions of use  
100% leak-tested in production  
Date coding to guarantee quality and traceability

### Easy-to-Use

Fixing screws for through-bulkhead mounting  
The lever may be repositioned or replaced with a handwheel  
Low operating torque



Automotive Process  
Foundry  
Forming  
Machine Tools  
Textile  
Spectacle-Making Industry  
Turbines  
Deep-Sea Diving

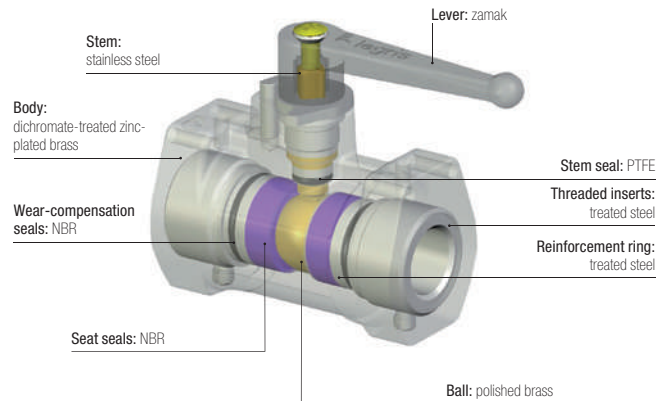
Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	Vacuum to 300 bar
<b>Working Temperature</b>	-15°C to +80°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



### Silicone-free

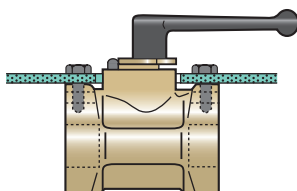
### Regulations

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)

## Installation Options

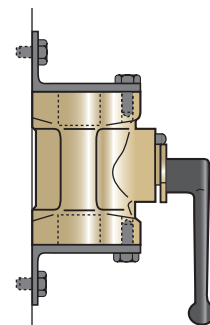
### Bulkhead Mounting

Through bulkhead with screws



### Surface Mounting

With brackets and screws





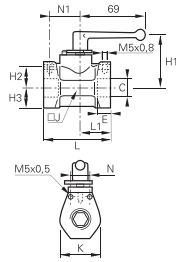
# High Pressure Series

**4402**

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



Treated brass, NBR



C	DN		E	H1	H2	H3	J	K	L	L1	N	N1	kg
G1/4	7	<b>4402 07 13</b>	12	50	13	15	30	30	58	25	15	20	0.402
G3/8	10	<b>4402 10 17</b>	12	54	23	19	36	39	72	36	20	30	0.722
G1/2	13	<b>4402 13 21</b>	15	56	23	21	40	42	79	36	20	30	0.870

# Ball Valves, Mini Series

With their **push-in connections**, these polymer lightweight ball valves allow for a significant reduction in installation time while offering **full flow capability** and **compact dimensions**.

## Product Advantages

### Optimum Solution

- Full flow
- Marked with the pneumatic symbol for identification of its function
- Lightweight and compact
- Extremely compact, easy-to-operate lever
- Lever with screwdriver slot to facilitate operation
- Designed for polymer tubing with no tube preparation
- Can be mounted on a wall or adjacent using staples



### Proven Technology

- LF 3000® push-in connection, excellent static and dynamic sealing
- High-strength polyamide
- Excellent long-term performance
- Automatic seal wear compensation for long-term reliability
- 100% leak-tested in production
- Date coding to guarantee quality and traceability

Applications

- Robotics
- Vacuum
- Semi-Conductors
- Packaging
- Textile
- Pneumatics

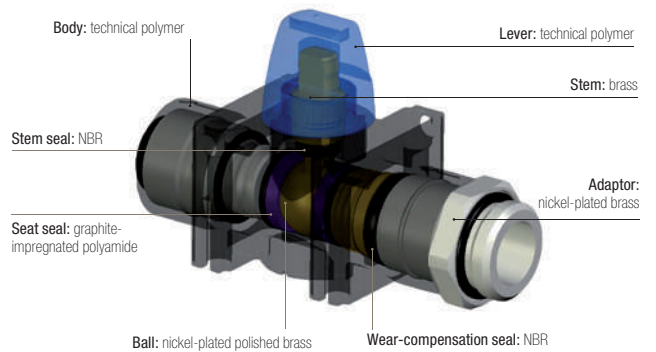
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air			
<b>Working Pressure</b>	Vacuum to 10 bar			
<b>Working Temperature</b>	-20°C to +80°C			

<b>Tightening Torques</b>	Threads	G1/8	G1/4	G3/8	G1/2
	daN.m	0.8	1.2	3	3.5

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

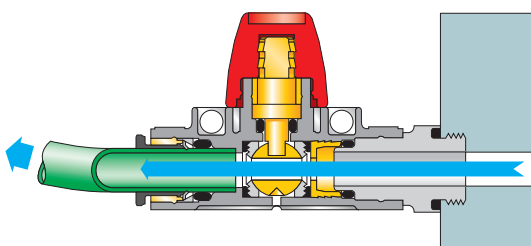


### Silicone-free

## Operation

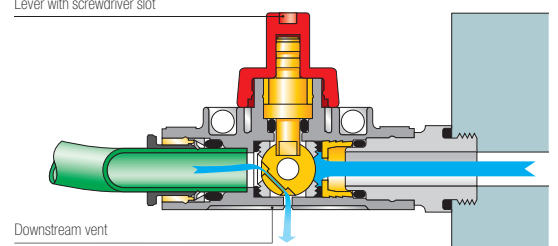
### Vented Valve, Open Position

3/2 model with vent



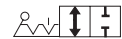
### Vented Valve, Closed Position

Lever with screwdriver slot

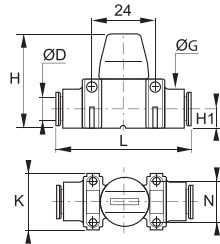


# Mini Series

## 7910 2/2 In-Line Mini-Ball Valve

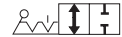


Technical polymer, NBR

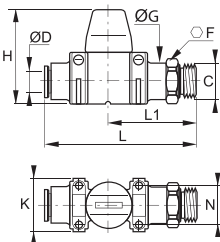


ØD		G	H	H1	K	L	N	kg
4	<a href="#">7910 04 00</a>	15	37	7.5	22	51	16	0.039
6	<a href="#">7910 06 00</a>	15	37	7.5	22	52	16	0.034
8	<a href="#">7910 08 00</a>	15	37	7.5	22	52	16	0.025
10	<a href="#">7910 10 00</a>	20	43	11	30	66	22	0.060
12	<a href="#">7910 12 00</a>	20	43	11	30	66	22	0.040

## 7911 2/2 In-Line Mini-Ball Valve, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR

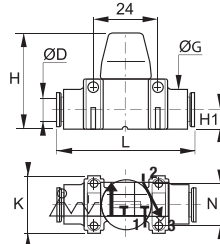


ØD	C		F	G	H	K	L	L1	N	kg
6	G1/8	<a href="#">7911 06 10</a>	13	14	37	22	62	37	16	0.045
8	G1/4	<a href="#">7911 08 13</a>	16	17.5	37	22	61	35	16	0.040
10	G3/8	<a href="#">7911 10 17</a>	20	22	43	30	74	41	22	0.075
12	G1/2	<a href="#">7911 12 21</a>	24	26	43	30	75	42	22	0.075

## 7913 3/2 In-Line Mini-Ball Valve with Vent

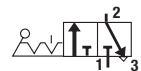


Technical polymer, NBR

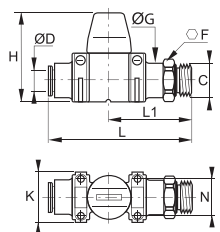


ØD		G	H	H1	K	L	N	kg
4	<a href="#">7913 04 00</a>	15	37	7.5	22	51	16	0.040
6	<a href="#">7913 06 00</a>	15	37	7.5	22	52	16	0.035
8	<a href="#">7913 08 00</a>	15	37	7.5	22	52	16	0.025
10	<a href="#">7913 10 00</a>	20	43	11	30	66	22	0.060
12	<a href="#">7913 12 00</a>	20	43	11	30	66	22	0.045

## 7914 3/2 In-Line Mini-Ball Valve with Vent, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H	K	L	L1	N	kg
6	G1/8	<a href="#">7914 06 10</a>	13	14	37	22	62	37	16	0.045
8	G1/4	<a href="#">7914 08 13</a>	16	17.5	37	22	61	35	16	0.040
10	G3/8	<a href="#">7914 10 17</a>	20	22	43	30	74	41	22	0.058
12	G1/2	<a href="#">7914 12 21</a>	24	26	43	30	75	42	22	0.075

## 7000 Joining Clips

Technical polymer



ØD		kg
4	<a href="#">7000 00 05</a>	0.004
6	<a href="#">7000 00 05</a>	0.004
8	<a href="#">7000 00 05</a>	0.004
10	<a href="#">7000 00 06</a>	0.009
12	<a href="#">7000 00 06</a>	0.009

# LIQUIfit® Ball Valves

This range of valves offers an innovative solution in the treatment of **water and the handling of beverages** while protecting **health**. These **compact and reliable** valves offer perfect **sealing** and excellent **cleanliness**.

## Product Advantages

### Innovative Technology & Increased Reliability

Full flow to limit turbulence  
 Full-flow self-cleaning ball maintains the cleanliness of the circuit  
 Tube retention with gripping ring prevents pumping effect  
 Push-in connection and disconnection  
 Sealing technology using patented EPDM seal

### High Performance

Inert technical polymer providing the best mechanical strength, thermal and chemical resistance  
 Carstick® connection providing resistance to water hammer  
 Other configurations available on request



Beverage Dispensers  
 Inert Gases  
 Cooling  
 Food Process  
 Water Purification  
 Water Coolers

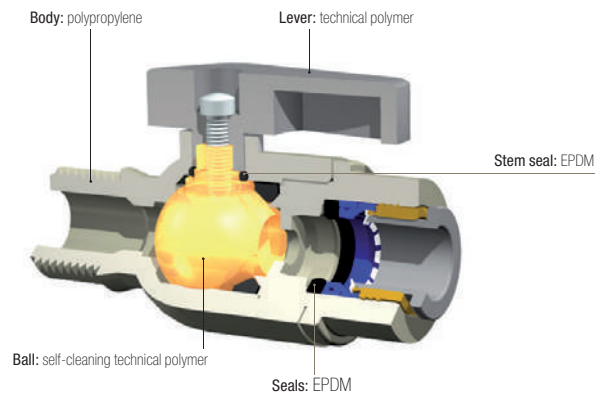
Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Water, drinks, beverages			
<b>Working Pressure</b>	0 to 10 bar at 20°C			
<b>Working Temperature</b>	-15°C to +100°C			

<b>Tightening Torques</b>	Threads	1/4" NPTF	3/8" NPTF	1/2" NPTF
	daN.m	1.5	3	3

### Component Materials



### Silicone-free

### Regulations

FDA: 21 CFR  
 NSF: 51 and lead < 0.25%  
 WQA: Water Quality Association

## 4020 2/2 In-Line Ball Valve

Inch

	Polypropylene, glass fibre-reinforced, EPDM 	<b>ØD</b>		<b>H</b>	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		1/4	<a href="#">4020 56 00WP2</a>	25	13	65	31	0.015
		3/8	<a href="#">4020 60 00WP2</a>	36	13	68	30.5	0.028

## 4021 2/2 In-Line Ball Valve, Male NPTF Thread

Inch

	Polypropylene, glass fibre-reinforced, EPDM 	<b>ØD</b>	<b>C</b>		<b>H</b>	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		1/4	NPT1/4	<a href="#">4021 56 14WP2</a>	36	13	61	31	0.029
		3/8	NPT3/8	<a href="#">4021 60 18WP2</a>	36	13	64	33.5	0.028

## 4023 2/2 In-Line Ball Valve, Female NPTF Thread

Inch

	Polypropylene, glass fibre-reinforced, EPDM 	<b>ØD</b>	<b>C</b>		<b>H</b>	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		1/4	NPT1/4	<a href="#">4023 56 14WP2</a>	36	13	58	31	0.000
		3/8	NPT3/8	<a href="#">4023 60 18WP2</a>	36	13	64	33.5	0.000

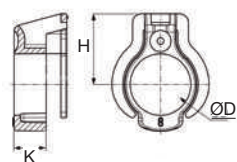
## 4022 2/2 Right-Angled Ball Valve, Female NPTF Thread

Inch

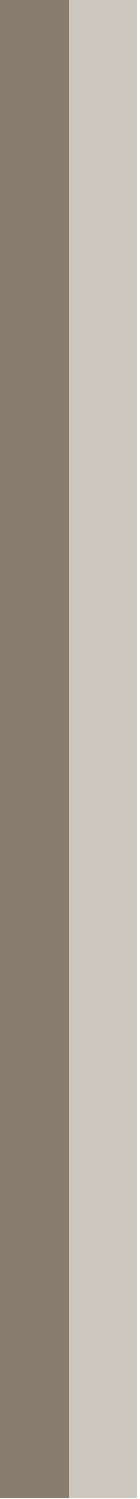
	Polypropylene, glass fibre-reinforced, EPDM 	<b>ØD</b>	<b>C</b>		<b>H</b>	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		1/4	NPT1/4	<a href="#">4022 56 14WP2</a>	52	29	44	31	0.016
		3/8	NPT3/8	<a href="#">4022 60 18WP2</a>	52	29	47	33.5	0.027

## 3130 Tamper-Proof Safety Clip

Technical polymer



<b>ØD</b>							<b>H</b>	<b>K</b>	<b>kg</b>
1/4	<a href="#">3130 56 01</a>	<a href="#">3130 56 02</a>	<a href="#">3130 56 03</a>	<a href="#">3130 56 04</a>	<a href="#">3130 56 05</a>	<a href="#">3130 56 10</a>	8	3.2	0.001
3/8	<a href="#">3130 60 01</a>	<a href="#">3130 60 02</a>	<a href="#">3130 60 03</a>	<a href="#">3130 60 04</a>	<a href="#">3130 60 05</a>	<a href="#">3130 60 10</a>	10.8	4.2	0.001



# Needle and Butterfly Valves

## Brass Needle Valve

### In-Line

**0502**  
Page 6-39

**0501**  
Page 6-39

**0510**  
Page 6-39



### Right-Angled

**0532**  
Page 6-39

**0531**  
Page 6-39



### Drain Valve

**0562**  
BSPP/Metric  
Page 6-40

**0563**  
NPT  
Page 6-40



### Venting Pressure Gauge Valve

**0627**  
BSPP  
Page 6-40



### Pressure Relief Valve

**0630**  
BSPP  
Page 6-40



## Stainless Steel Needle Valve

### In-Line

**0591**  
Page 6-41



## Butterfly Valve

### In-Line

**4602**  
Page 6-43



# Needle Valves

Parker Legris compact needle valves can be installed in any system and are designed for applications requiring accurate **leak-free fluid control** and **excellent service life**.

## Product Advantages

- Robust and Easy-to-Use**
  - Accurate flow control
  - Forged brass for improved long-term mechanical strength
  - Robust stem for good operational reliability
  - Corrosion resistance
- Wide Range**
  - Two materials (nickel-plated brass and stainless steel) suitable for many applications
  - Numerous valve and safety accessory configurations



Pneumatics  
Water Circuits  
Machine Tools  
Rubber Industry  
Packaging  
Textile

Applications

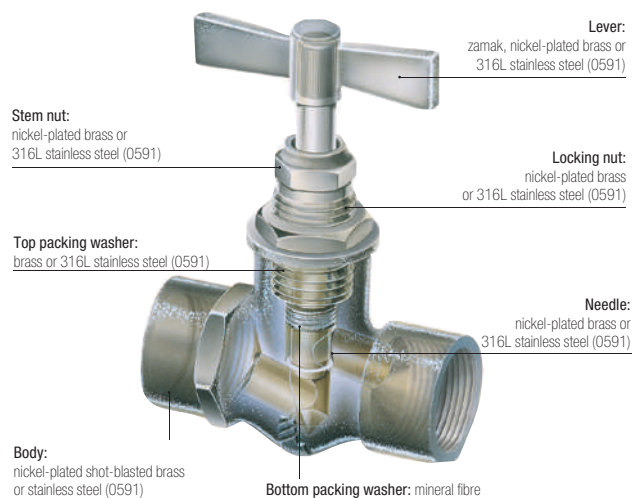
## Technical Characteristics

	Brass	Stainless Steel
<b>Compatible Fluids</b>	Compressed air, water, industrial fluids, etc. Other fluids: contact us	Many fluids
<b>Working Pressure</b>	0 to 120 bar	0 to 400 bar
<b>Working Temperature</b>	-20°C to +100°C (except model 0510)	-20°C to +180°C

Tightening Torques	Threads	G1/8	G1/4	G3/8	G1/2
	daN.m	0.10 to 0.20	0.10 to 0.20	0.15 to 0.25	0.20 to 0.35

Reliable performance is dependent upon the type of fluid conveyed.

### 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)



# Brass Needle Valves

## 0502 In-Line Needle Valve, Female BSPP Thread



	Nickel-plated brass 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>H</b>	<b>H<sub>max</sub></b>	<b>J</b>	<b>L/2</b>	<b>kg</b>
		G1/8	4	<a href="#">0502 04 10</a>	9	56	50	17	23	0.133
		G1/4	4	<a href="#">0502 04 13</a>	11	56	50	17	23	0.118
		G3/8	6	<a href="#">0502 06 17</a>	12	67	60	-	26	0.171
			9	<a href="#">0502 09 17</a>	12	82	70	-	33	0.426

## 0501 In-Line Needle Valve, Male/Female BSPP Thread



	Nickel-plated brass 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>E1</b>	<b>H</b>	<b>H<sub>max</sub></b>	<b>J</b>	<b>L</b>	<b>kg</b>
		G1/8	4	<a href="#">0501 04 10</a>	9	7	56	50	17	44	0.118
		G1/4	4	<a href="#">0501 04 13</a>	11	9.5	56	50	17	46	0.115
		G3/8	6	<a href="#">0501 06 17</a>	12	9.5	67	60	-	48	0.158

## 0510 In-Line Needle Valve with Compression Connections



	Nickel-plated brass 	<b>ØD</b>	<b>C</b>	<b>DN</b>		<b>F</b>	<b>H<sub>min</sub></b>	<b>H<sub>max</sub></b>	<b>L/2</b>	<b>kg</b>
		6	M10x1	4	<a href="#">0510 04 06</a>	13	42	46	29	0.083
		8	M12x1	8	<a href="#">0510 05 08</a>	14	42	46	30	0.083
		10	M16x1.5	5	<a href="#">0510 05 10</a>	19	42	46	31	0.111

The needle is sealed by an O-ring.  
 Maximum operating pressure: Ø4: 100 bar, Ø5: 60 bar  
 Working temperature: -15°C to +70°C  
 Tightening torques: please refer to the Compression Fittings chapter of this catalogue.

## 0532 Right-Angle Needle Valve, Female BSPP Thread



	Nickel-plated brass 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>H<sub>min</sub></b>	<b>H<sub>max</sub></b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		G1/8	4	<a href="#">0532 04 10</a>	9	46	52	19	17	19	0.093
		G1/4	4	<a href="#">0532 04 13</a>	11	46	52	21	17	21	0.087
			6	<a href="#">0532 06 13</a>	11	55	63	26	22	26	0.169


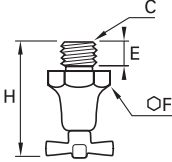


## 0531 Right-Angle Needle Valve, Male/Female BSPP Thread




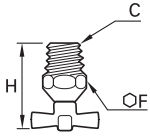


	Nickel-plated brass 	<b>C</b>	<b>DN</b>		<b>E</b>	<b>E1</b>	<b>H<sub>min</sub></b>	<b>H<sub>max</sub></b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		G1/8	4	<a href="#">0531 04 10</a>	7	9	46	52	19	17	19	0.082
		G1/4	4	<a href="#">0531 04 13</a>	9.5	11	46	52	21	17	21	0.090
			6	<a href="#">0531 06 13</a>	9.5	11	55	63	25	22	26	0.155
		G3/8	6	<a href="#">0531 06 17</a>	9.5	12	55	63	25	22	27	0.153
G1/2	10		<a href="#">0531 10 21</a>	13	16	62	72	34	26	33	0.330	

# Brass Needle Valves


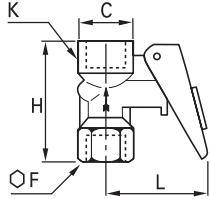

## 0562 Needle Drain Valve, Male BSPP and Metric Thread

	Brass 	<b>C</b>  	<b>E</b>	<b>F</b>	<b>H</b>	<b>H</b>	<b>kg</b>
		M10x1 5 <a href="#">0562 05 60</a>	8	16	37.5	40	0.031
		G1/8 5 <a href="#">0562 05 10</a>	8	16	36	40	0.032
		G1/4 5 <a href="#">0562 05 13</a>	10	19	38.5	42.5	0.040

## 0563 Needle Drain Valve, Male NPT Thread


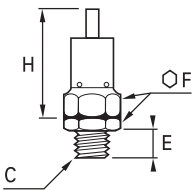

	Brass 	<b>C</b>  	<b>F</b>	<b>H</b>	<b>H</b>	<b>kg</b>
		NPT1/4 5 <a href="#">0563 05 14</a>	14	28.5	32.5	0.021

## 0627 Automatic Vent Pressure Gauge Valve, Female BSPP Thread

	Nickel-plated brass, NBR 	<b>C</b> 	<b>F</b>	<b>H</b>	<b>K</b>	<b>L</b>	<b>kg</b>
		G1/4 <a href="#">0627 00 13</a>	19	43.5	20	40	0.097

Pressure: 10 bar  
 This isolating valve is used to connect a pressure gauge to a circuit.  
 Resetting the lever isolates and vents the gauge.  
 A locking pin can be used to enable the gauge to be fitted permanently.

## 0630 Pressure Relief Valve, Male BSPP Thread

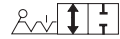
	Brass 	<b>C</b> 	<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		G1/4 <a href="#">0630 06 13</a>	9	17	42.5	0.050

This valve is delivered without calibration, but can be adjusted by inserting metal washers into the hexagon (F).

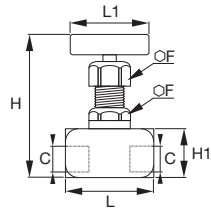
# Stainless Steel Needle Valves

**0591**

Needle Valve, Female BSPP Thread



Stainless steel 316L, PTFE



C	DN		F	H min	H max	H1	L	L1	kg
G1/8	3	<a href="#">0591 03 10</a>	22	90	99	25	45	48	0.345
G1/4	4	<a href="#">0591 04 13</a>	22	90	99	25	50	48	0.356
G3/8	5	<a href="#">0591 05 17</a>	22	90	104	30	56	48	0.430
G1/2	6	<a href="#">0591 06 21</a>	22	90	104	30	62	48	0.483

# Butterfly Valves

In these robust valves, the internal component used to shut off the flow is a segment of a sphere. This allows **frequent operation with very low torque, no fluid retention areas** and therefore excellent mechanical performance.

## Product Advantages

### Compact & Abrasion-Resistant

- Excellent with abrasive fluids (including solid particles)
- Fluid flow direction marked for greater safety (uni-directional)
- Smooth operation
- Can be easily adapted for use with auxiliary actuators
- More compact than a ball valve with equivalent nominal diameter
- Simple and efficient design for a long service life

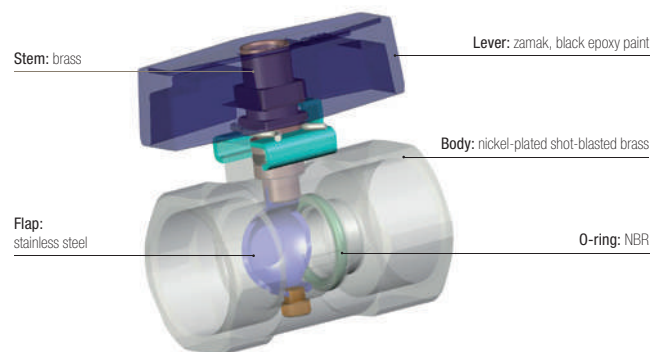
- ### Applications
- Painting & Printing
  - Machine Tools
  - Pneumatics
  - Powder Conveyance
  - Plumbing
  - Rubber Industry
  - Petrochemical

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air, industrial gases, water, cutting oils, hydraulic oils, fuel oil, fuel, etc.
<b>Working Pressure</b>	0 to 16 bar
<b>Working Temperature</b>	-20°C to +80°C

Reliable performance is dependent upon the type of fluid conveyed.

### 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)

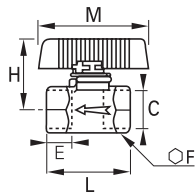
# Butterfly Valves

**4602**

2/2 Butterfly Shut-Off Valve, Female BSPP Thread



Nickel-plated brass, NBR



C	DN		E	F	H	L	M	kg
G1/4	6	<a href="#">4602 06 13</a>	9	17	35	34	54	0.098
G3/8	7	<a href="#">4602 07 17</a>	11	22	35	39	54	0.136
G1/2	10	<a href="#">4602 10 21</a>	12	24	37	42	54	0.140
G3/4	13	<a href="#">4602 13 27</a>	14	30	40	49	54	0.208
G1	18	<a href="#">4602 18 34</a>	15	41	46	55	54	0.412

Black epoxy-coated zamak handle



# Axial Valve Range

## In-Line Normally Closed

**4202..20**  
FKM Seal  
2/2  
Page 6-48



**4202..30**  
EPDM Seal  
2/2  
Page 6-48



## In-Line Normally Open

**4212..20**  
FKM Seal  
2/2  
Page 6-48



**4212..30**  
EPDM Seal  
2/2  
Page 6-48



## In-Line Double-Acting

**4222..20**  
FKM Seal  
2/2  
Page 6-48



**4222..30**  
EPDM Seal  
2/2  
Page 6-49



## Accessories

**4298**  
Sub-Base  
Page 6-49



**4298**  
Solenoid Valve  
Page 6-49



**4299**  
Pneumatic Button  
Page 6-49



# Axial Valves

The Parker Legris axial valve is the only valve to incorporate both the **valve and actuation function**. With pneumatic or electro-pneumatic control, it avoids many of the restrictions associated with traditional actuators.

## Product Advantages

### Optimisation & Safety

Very compact: up to 50% smaller than valves with separate actuators  
 Simple to install: ready-to-use  
 Common sub-base for solenoid control  
 Automation of the open/close function  
 Operation independent of the upstream and downstream pressure in the circuit



### Comprehensive Offer

Two seal materials for a wider chemical and temperature range  
 Pneumatic, electro-pneumatic or dual actuation control  
 Three versions: normally closed, normally open and double-acting

### Performance

Full flow: low pressure drop  
 Excellent pressure/temperature performance  
 Compatible with many industrial fluids

**Applications**

Flow Control  
 Plastic Injection Moulding  
 Rubber Industry  
 Pneumatics  
 Textile  
 Printing  
 Packaging  
 Robotics

## Technical Characteristics

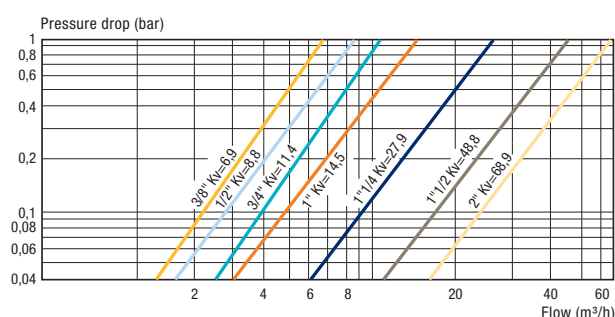
<b>Compatible Fluids</b>	Depending on type of seal – FKM: water, air, oils, greases, etc. – EPDM: hot water, air, steam, etc.
<b>Working Pressure</b>	10 bar max.
<b>Pilot Pressure</b>	NC and NO: 4.2 to 8 bar Double-acting: 3 to 8 bar
<b>Working Temperature</b>	-20°C to +135°C (suffix 20 FKM) -20°C to +120°C (suffix 30 EPDM)

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

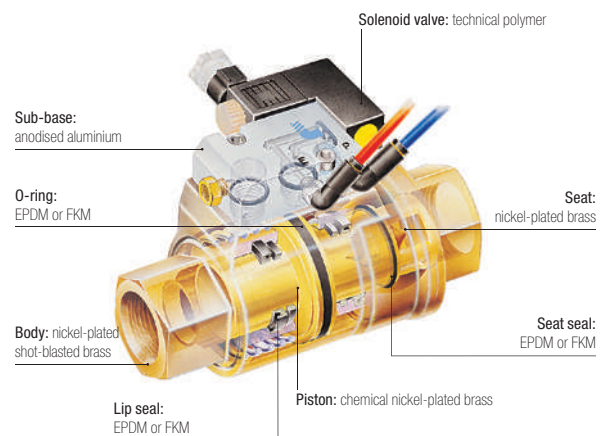
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.  
 Guaranteed for use with a vacuum of 740 mm Hg (97% vacuum).

### Flow Curve and Pressure Drop (Kv)

**Kv in m³/h** (ambient water temperature, under a differential pressure of 1 bar)



### Component Materials



### Silicone-free

### Regulations

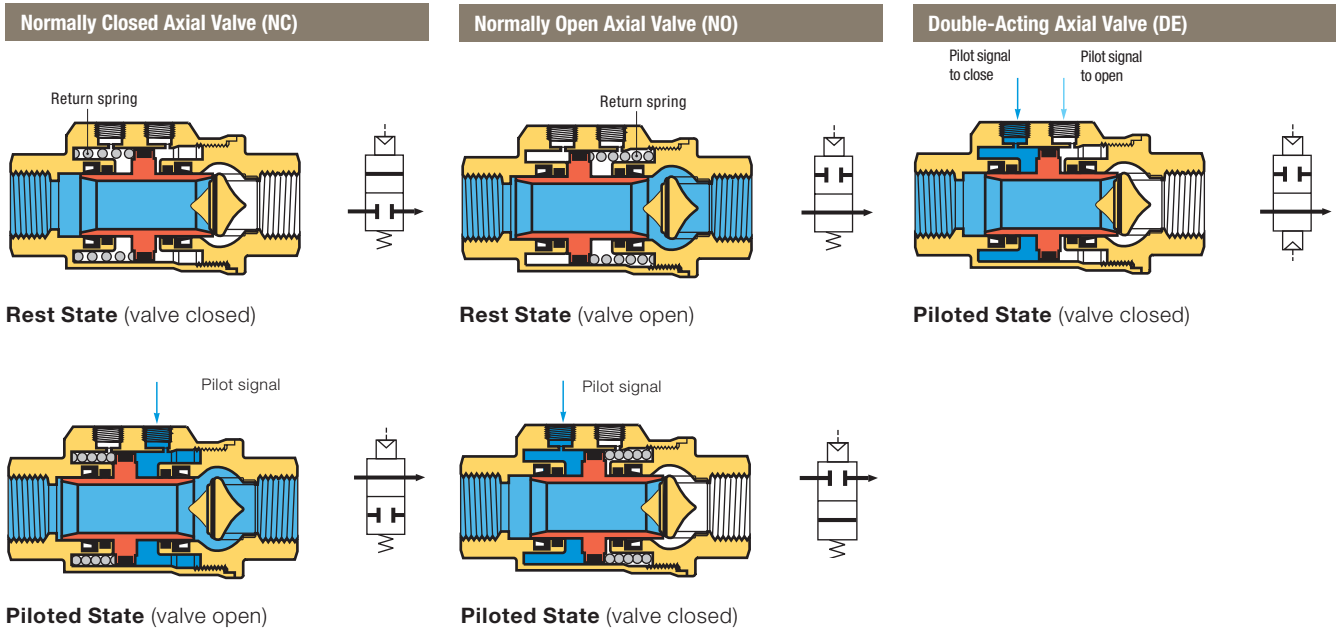
- DI: 97/23/EC (module PED A - diameters greater than 25 mm)
- DI: 2006/42/EC (Machinery Directive)
- DI: 2002/95/EC (RoHS)
- RG: 1907/2006 (REACH)
- DI: 94/9/EC (ATEX) - for pneumatic operation versions



# Axial Valves

## Operation

Depending on operational requirement, air is passed into the actuation chamber to open or close the valve.



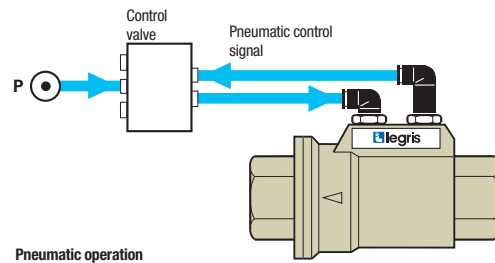
## Installation Options

The **Parker Legris** axial valve offers 3 different control methods dependant on the requirements of the installation:

### Pneumatic Control

**Example:** Double-acting axial valve 4222

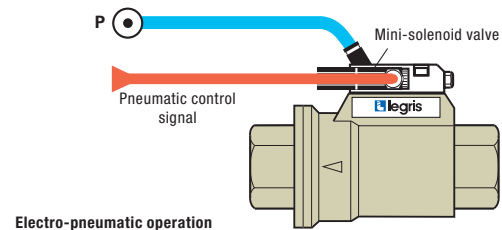
- local compressed air control
- for repetitive on/off cycles
- remote control where access to the machine is difficult
- for explosive or explosion prevention areas



### Electro-Pneumatic Control

**Example:** Normally closed axial valve 4202 + sub-base and Mini-solenoid valve 4298

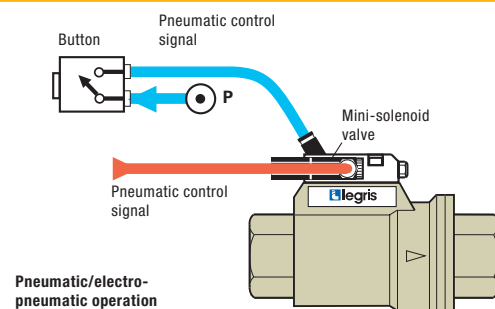
- for automated industrial systems requiring remote control
- Namur seating plane solenoid valve



### Dual Pneumatic and Electro-Pneumatic Control


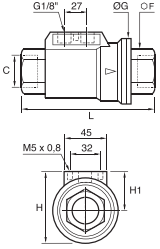

**Example:** Normally open axial valve 4212 + sub-base and Mini-solenoid valve 4298 + Pneumatic push-button 4299

- dual control structure
- for increased safety: prevents localised operating errors
- Namur seating plane solenoid valve


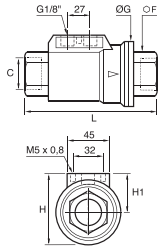



# Axial Valves


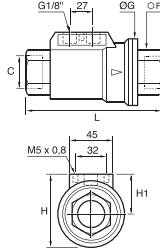

## 4202..20 Normally Closed Axial Valve with FKM Seal, Female BSPP Thread

	<p>Nickel-plated brass, FKM</p> 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		G3/8	<a href="#">4202 10 17 20</a>	22	46	54	31	98	0.815
		G1/2	<a href="#">4202 15 21 20</a>	27	52	60	35	112	1.092
		G3/4	<a href="#">4202 20 27 20</a>	33	64	70	38	135	1.624
		G1	<a href="#">4202 25 34 20</a>	41	69	76	41.5	143	2.033
		G1¼	<a href="#">4202 32 42 20*</a>	50	86	91	48	165	3.266
		G1½	<a href="#">4202 40 49 20*</a>	60	96	102	54	180	4.195
		G2	<a href="#">4202 50 48 20*</a>	75	109	115	60.5	207	6.465
<p>Pilot port: G1/8 - Delivered with a silencer *Models with CE marking</p>									


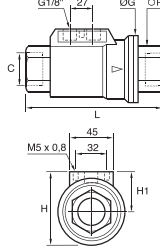

## 4202..30 Normally Closed Axial Valve with EPDM Seal, Female BSPP Thread

	<p>Nickel-plated brass, EPDM</p> 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		G3/8	<a href="#">4202 10 17 30</a>	22	46	54	31	98	0.828
		G1/2	<a href="#">4202 15 21 30</a>	27	52	60	35	112	1.098
		G3/4	<a href="#">4202 20 27 30</a>	33	64	70	38	135	1.624
		G1	<a href="#">4202 25 34 30</a>	41	69	76	41.5	143	1.998
		G1¼	<a href="#">4202 32 42 30*</a>	50	86	91	48	165	3.315
		G1½	<a href="#">4202 40 49 30*</a>	60	96	102	54	180	4.195
		G2	<a href="#">4202 50 48 30*</a>	75	109	115	60.5	207	6.360
<p>Pilot port: G1/8 - Delivered with a silencer *Models with CE marking</p>									


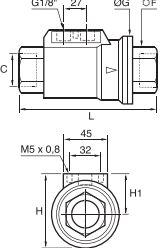

## 4212..20 Normally Open Axial Valve with FKM Seal, Female BSPP Thread

	<p>Nickel-plated brass, FKM</p> 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		G3/8	<a href="#">4212 10 17 20</a>	22	46	54	31	98	0.829
		G1/2	<a href="#">4212 15 21 20</a>	27	52	60	35	112	1.100
		G3/4	<a href="#">4212 20 27 20</a>	33	64	70	38	135	1.637
		G1	<a href="#">4212 25 34 20</a>	41	69	76	41.5	143	2.037
		G1¼	<a href="#">4212 32 42 20*</a>	50	86	91	48	165	0.030
		G1½	<a href="#">4212 40 49 20*</a>	60	96	102	54	180	4.188
		G2	<a href="#">4212 50 48 20*</a>	75	109	115	60.5	207	6.555
<p>Pilot port: G1/8 - Delivered with a silencer *Models with CE marking</p>									

## 4212..30 Normally Open Axial Valve with EPDM seal, Female BSPP Thread


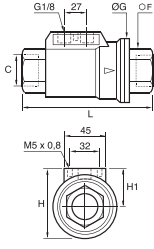

	<p>Nickel-plated brass, EPDM</p> 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		G3/8	<a href="#">4212 10 17 30</a>	22	46	54	31	98	0.827
		G1/2	<a href="#">4212 15 21 30</a>	27	52	60	35	112	1.152
		G3/4	<a href="#">4212 20 27 30</a>	33	64	70	38	135	1.575
		G1	<a href="#">4212 25 34 30</a>	41	69	76	41.5	143	2.055
		G1¼	<a href="#">4212 32 42 30*</a>	50	86	91	48	165	3.301
		G1½	<a href="#">4212 40 49 30*</a>	60	96	102	54	180	4.775
		G2	<a href="#">4212 50 48 30*</a>	75	109	115	60.5	207	6.360
<p>Pilot port: G1/8 - Delivered with a silencer *Models with CE marking</p>									

## 4222..20 Double-Acting Axial Valve with FKM Seal, Female BSPP Thread


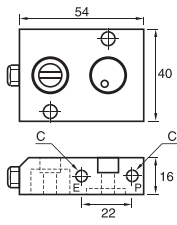

	<p>Nickel-plated brass, FKM</p> 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		G3/8	<a href="#">4222 10 17 20</a>	22	46	54	31	98	0.802
		G1/2	<a href="#">4222 15 21 20</a>	27	52	60	35	112	1.063
		G3/4	<a href="#">4222 20 27 20</a>	33	64	70	38	135	1.572
		G1	<a href="#">4222 25 34 20</a>	41	69	76	41.5	143	1.942
		G1¼	<a href="#">4222 32 42 20*</a>	50	86	91	48	165	3.058
		G1½	<a href="#">4222 40 49 20*</a>	60	96	102	54	180	3.995
		G2	<a href="#">4222 50 48 20*</a>	75	109	115	60.5	207	6.275
<p>Pilot port: G1/8 *Models with CE marking</p>									

# Axial Valves


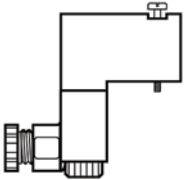

## 4222..30 Double Acting Axial Valve with EPDM seal, Female BSPP Thread

	<b>Nickel-plated brass, EPDM</b> 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		G3/8	4222 10 17 30	22	46	54	31	98	0.832
		G1/2	4222 15 21 30	27	52	60	35	112	1.046
		G3/4	4222 20 27 30	33	64	70	38	135	1.662
		G1	4222 25 34 30	41	69	76	41.5	143	1.938
		G1¼	4222 32 42 30*	50	86	91	48	165	3.301
		G1½	4222 40 49 30*	60	96	102	54	180	4.260
		G2	4222 50 48 30*	75	109	115	60.5	207	6.520
		Pilot port: G1/8 Delivered with a silencer *Models with CE marking							


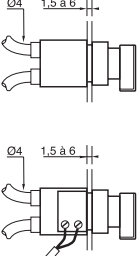

## 4298 Sub-Base for Solenoid Pilot Valve

	<b>Treated aluminium, NBR</b> 	<b>C</b>		<b>kg</b>
		M5x0.8	4298 00 01	0.095
The sub-base is fitted directly to the axial valve and allows the mounting of a 15x15 solenoid valve. Supplied with 2 fixing bolts, silencer and seals.				

## 4298 Mini-Solenoid Valve 1W/12VA

	<b>Anodised aluminium</b> 	<b>Voltage</b>		<b>kg</b>
		24V $\overline{\text{---}}$ CC*	4298 01 01	0.052
		24V $\sim$ CA**	4298 01 02	0.058
		110V $\sim$ CA**	4298 02 01	0.051
		220V $\sim$ CA**	4298 02 02	0.054
		*Direct current **Alternating current		

## 4299 Pneumatic Button/Electro-Pneumatic

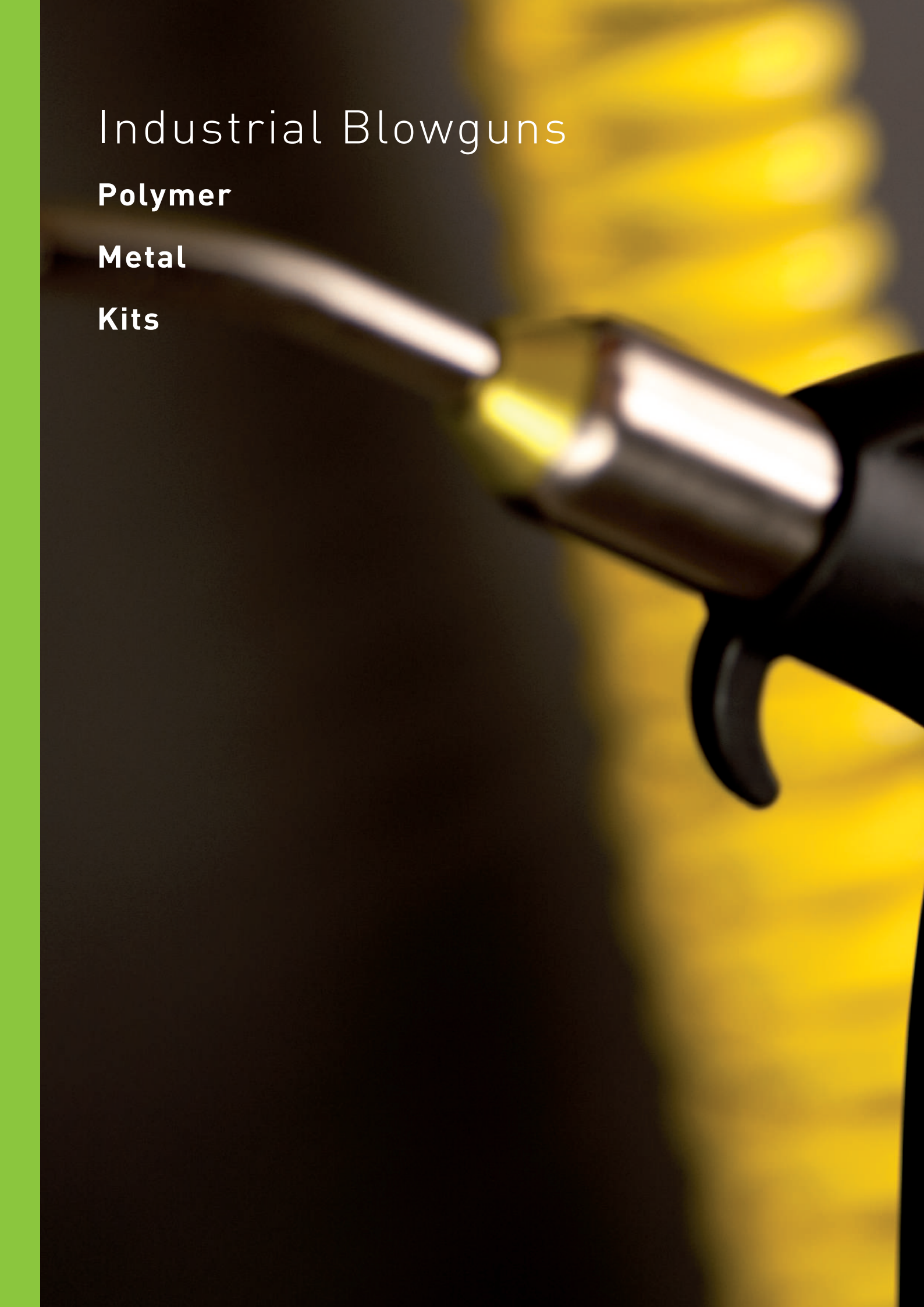
	<b>Nickel-plated brass</b> 	<b>Contact</b>		<b>kg</b>
		Standard*	4299 01 01	0.085
		With key*	4299 01 02	0.110
		Standard**	4299 02 01	0.102
		With key**	4299 02 02	0.124
		Bulkhead fixing hole diameter: Ø22 mm *1 pneumatic contact **1 electro-pneumatic contact Available upon request only		

# Industrial Blowguns

**Polymer**

**Metal**

**Kits**





 **Elegris**

# Blowguns

## Standard Blowgun (P. 7-7)



**Fluids:** compressed air  
**Materials:** technical polymer, NBR  
**Pressure:** 10 bar  
**Temperature:** -15°C to +50°C  
**DN:** : 3.5 mm

## Safety Blowgun (P. 7-7)



**Fluids:** compressed air  
**Materials:** technical polymer, NBR  
**Pressure:** 10 bar  
**Temperature:** -15°C to +50°C  
**DN:** : 3 mm

## Energy-Saving Blowgun (P. 7-7)



**Fluids:** compressed air  
**Materials:** technical polymer, NBR  
**Pressure:** 10 bar  
**Temperature:** -15°C to +50°C  
**DN:** : according to nozzle

## Versatile Blowguns (P. 7-6)



**Fluids:** compressed air  
**Materials:** technical polymer, NBR  
**Pressure:** 10 bar  
**Temperature:** -15°C to +50°C  
**DN:** : according to nozzle

## Metal Blowguns (P. 7-14)



**Fluids:** compressed air  
**Materials:** forged nickel-plated brass, NBR  
**Pressure:** 10 bar  
**Temperature:** -15°C to +50°C  
**DN:** : 2 mm

## Water Pistol (P. 7-14)



**Fluids:** industrial fluids and water  
**Materials:** zamak, NBR  
**Pressure:** 20 bar  
**Temperature:** -20°C to +100°C  
**DN:** : 12 mm

## Blowgun Kits (P. 7-16)



**Fluids:** compressed air  
**Materials:** technical polymer  
**Pressure:** 10 bar  
**Temperature:** -15°C to +50°C  
**DN:** : according to model

## Nozzles (P. 7-10)



**Fluids:** compressed air  
**Materials:** nickel-plated brass  
**Pressure:** 10 bar  
**Temperature:** -15°C to +50°C  
**DN:** : according to model

# Blowgun Range

## Polymer Blowguns

### Standard

**0659**  
Page 7-7



### Safety

**0654**  
Page 7-7



### Energy-Saving

**0653**  
Lower Connection  
Page 7-7



### With Interchangeable Nozzle

**0652**  
Lower Connection  
Page 7-8



**0655**  
Upper Connection  
Page 7-8



### Pre-Assembled with Nozzle

**0651**  
Lower Connection  
Page 7-8



**0658**  
Upper Connection  
Page 7-9



**0656**  
Lower Connection  
Page 7-9



**0657**  
Upper Connection  
Page 7-9



## Nozzles for Polymer Blowguns

**0690 01**  
Standard  
Page 7-10



**0690 02**  
Safety  
Page 7-10



**0690 03**  
Straight Tube (long)  
Page 7-10



**0690 04**  
Straight Tube (short), Safety  
Page 7-10



**0690 05**  
Angled Tube (long)  
Page 7-10



**0690 06**  
Angled Tube (short) Safety  
Page 7-11



**0690 06 01**  
Angled Tube (short)  
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**0690 07**  
LF 3000® Nozzle  
Page 7-11



**0690 08**  
Coanda  
Page 7-11



**0690 09**  
Air Screen  
Page 7-11



**0690 10**  
Booster  
Page 7-12



**0690 11**  
Booster with Air Screen  
Page 7-12



## Metal Blowguns

### Button-Operated

**0623**  
Page 7-15



### Lever-Operated

**0622**  
Page 7-15



### Water Pistol

**2299**  
Page 7-15



**2299**  
Page 7-15



## Blowgun Kits

**0631..09**  
Standard  
Page 7-17



**0631..01**  
Safety  
Page 7-17



**0631..23**  
Energy-Saving  
Page 7-17



**0631..03**  
**0631..02**  
Standard Nozzle  
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**0631..05**  
**0631..04**  
Angled Nozzle, Safety  
Page 7-18



**0631..07**  
**0631..06**  
Interchangeable Nozzle  
Page 7-18/19



**0631..08**  
Energy-Saving  
Interchangeable Nozzle  
Page 7-19



# Polymer Blowguns

The Parker Legris polymer blowgun offers **ease of use**, **energy saving**, adaptability and efficiency. These blowguns comply with **international regulations** for health, **safety** and **noise** levels.

## Product Advantages

### Quality & Performance

Comply with international standards for noise and pressure regulation  
 Powerful flow with progressive control  
 Rotating nozzle for directional jet  
 Durable, shock-resistant materials  
 100% leak and flow-tested in production  
 Date coding to guarantee quality and traceability

### Safety & Sustainable Development

40% energy consumption reduction with Energy-Saving model  
 Complete user safety with the Safety model  
 Wide selection of nozzles which comply with noise and pressure level regulations

### Ergonomics & Versatility

Comfortable to use  
 Lightweight and easy to use  
 Wide range of models and nozzles for optimum blowing power and flow rate  
 Lower or upper connection



Manufacturing Workshops

Cleaning  
 Blowing  
 Mixing  
 Ejection  
 Cooling  
 Packaging

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: contact us
<b>Working Pressure</b>	0 to 10 bar
<b>Working Temperature</b>	Air: -15°C to +50°C Dry air: -20°C to +80°C
<b>Tubes</b>	Recoil tubes and hose

### Regulations

#### Compliance for all blowguns:

DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS),  
 2011/65/EC  
 DI: 1907/2006 (REACH)

#### Protection of design

All designs and models of Parker Legris blowguns have been registered with the following numbers: 13224 / 13225 / 13226.

#### Compliance for specific blowguns:

DI: 1910.242 (b) [OSHA]  
 The static pressure must be less than 30 psi in case the nozzle becomes blocked.  
 DI: 1910.95 (b) [OSHA]  
 The noise level must be less than 90 dBA over 8 hours' exposure.  
 DI: 2003/10/EC  
 Regulation relating to exposure to noise, particularly with regard to risks to hearing. The noise level must be less than 87 dBA.

### Component Materials


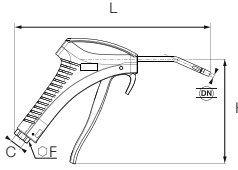




### Silicone-free



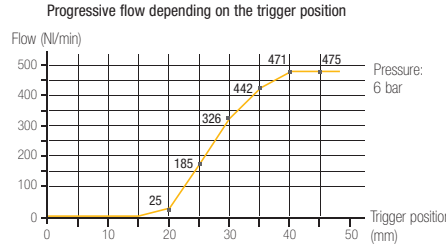
# Polymer Blowguns

## 0659 Standard Blowgun, Lower Connection with Short Angled Nozzle, Female BSPP Thread

	Technical polymer, nickel-plated brass, treated aluminium, NBR 	<b>C</b>  	<b>F</b> <b>H</b> <b>L</b> <b>kg</b>
		G1/4 3.5 <b>0659 00 13</b>	20 120 223 0.072

Nozzle: aluminium, NPT version available.


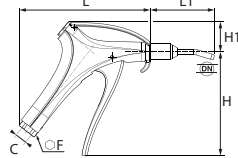


Progressive flow depending on the trigger position



Pressure: 6 bar

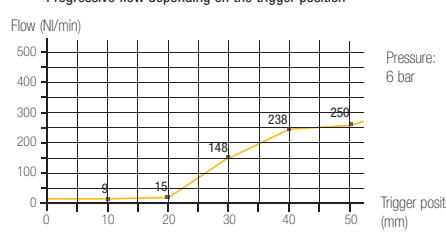
- 475 Nl/min
- 82 dBA
- OSHA 1910.242 (b)
- OSHA 1910.95 (b)
- 2003/10/EC directive: Requirement to use ear protection if exposure > 8 hours

## 0654 Safety Blowgun, Lower Connection, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	<b>C</b>  	<b>F</b> <b>H</b> <b>H1</b> <b>L</b> <b>L1</b> <b>kg</b>
		G1/4 3 <b>0654 00 13</b>	20 117 35 148 73 0.189

Nozzle: nickel-plated brass, NPT version available.


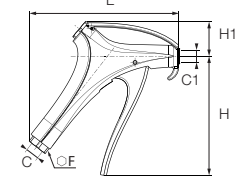

Progressive flow depending on the trigger position



Pressure: 6 bar

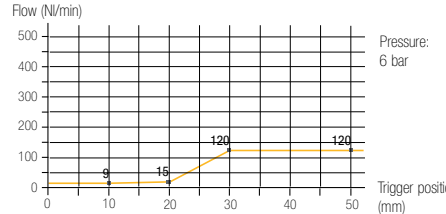
- 250 Nl/min
- 80 dBA
- OSHA 1910.242 (b)
- OSHA 1910.95 (b)
- 2003/10/EC directive: No ear defenders necessary

## 0653 Energy-Saving Blowgun, Lower Connection with Interchangeable Nozzle, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	<b>C</b> <b>C1</b> 	<b>F</b> <b>H</b> <b>H1</b> <b>L</b> <b>kg</b>
		G1/4 M12x1.25 <b>0653 66 13</b>	20 117 34 147 0.144


Flow characteristics depend on the type of nozzle used. Delivered without nozzle. A value calculator for energy savings is available.

Progressive flow depending on the trigger position



Pressure: 6 bar

- 120 Nl/min
- 80 dBA
- Noise level measured without nozzle
- OSHA 1910.242 (b): Depends on type of nozzle
- OSHA 1910.95 (b)
- 2003/10/EC directive: No ear defenders necessary

 Maximum Flow Rate (tolerance +/-10%)

 Noise Level ISO 15744

 Diffusion Cone

 Compliance with Standards

### Operation: Safety Blowgun



Flow stopped completely and pressure reduced to 0.5 bar


### Operation: Blowgun with Safety Nozzle



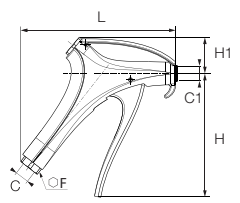
Flow diverted and pressure reduced to 0.5 bar

# Polymer Blowguns

## 0652 Progressive Control Blowgun, Lower Connection with Interchangeable Nozzle, Female BSPP Thread




Technical polymer, nickel-plated brass, NBR




C	C1		F	H	H1	L	kg
G1/4	M12x1.25	<b>0652 66 13</b>	20	117	34	147	0.163


Flow characteristics depend on the type of nozzle used.  
Delivered without nozzle.



Depending on the type of nozzle




86 dBA      Noise level measured without nozzle

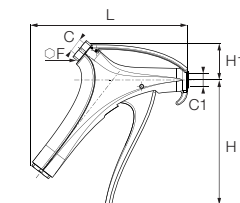


OSHA 1910.242 (b):  
Depends on type of nozzle  
OSHA 1910.95 (b)  
2003/10/EC directive:  
Requirement to use ear protection if exposure > 8 hours

## 0655 Progressive Control Blowgun, Upper Connection with Interchangeable Nozzle, Female BSPP Thread




Technical polymer, nickel-plated brass, NBR




C	C1		F	H	H1	L	kg
G1/4	M12x1.25	<b>0655 66 13</b>	20	117	37	145	0.014


Flow characteristics depend on the type of nozzle used.  
Delivered without nozzle.



Depending on the type of nozzle




86 dBA      Noise level measured without nozzle

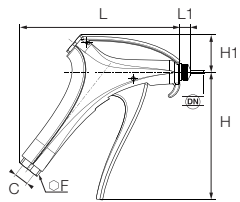


OSHA 1910.242 (b):  
Depends on type of nozzle  
OSHA 1910.95 (b)  
2003/10/EC directive:  
Requires ear defenders to be used when exposure is > 8 hours

## 0651 Progressive Control Blowgun, Lower Connection with Standard Nozzle, Female BSPP Thread



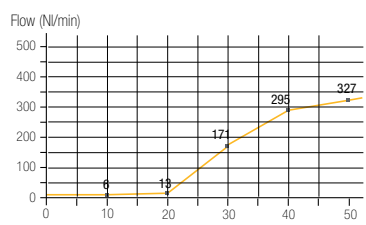
Technical polymer, nickel-plated brass, NBR




C			F	H	H1	L	L1	kg
G1/4	2.5	<b>0651 66 13</b>	20	117	34	147	10	0.168


Nozzle: nickel-plated brass

Progressive flow depending on the trigger position






327 Nl/min      Flow produced with nozzle **0690 01 00**




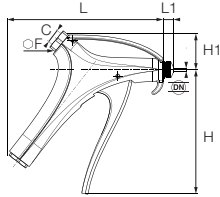


86 dBA



OSHA 1910.95 (b)  
2003/10/EC directive:  
Requirement to use ear protection if exposure > 8 hours

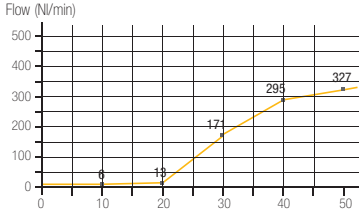
# Polymer Blowguns

## 0658 Progressive Control Blowgun, Upper Connection with Standard Nozzle, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	<b>C</b>  	<b>F</b> <b>H</b> <b>H1</b> <b>L</b> <b>L1</b> <b>kg</b>
		G1/4 2.5 <b>0658 66 13</b>	20 117 37 145 10 0.195

Nozzle: nickel-plated brass

Progressive flow depending on the trigger position



Trigger position (mm)	Flow (Nl/min)
0	0
10	0
20	13
30	171
40	293
50	327


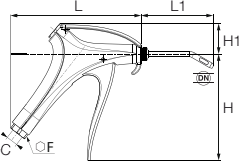


Pressure: 6 bar

327 Nl/min Flow produced with nozzle **0690 01 00**

86 dBA

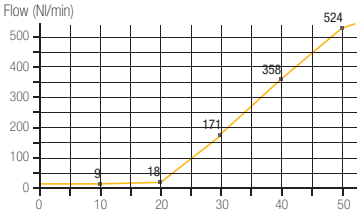
OSHA 1910.95 (b)  
2003/10/EC directive:  
Requirement to use ear protection if exposure > 8 hours

## 0656 Safety Progressive Control Blowgun, Lower Connection with Short Angled Nozzle, Female BSPP

	Technical polymer, nickel-plated brass, NBR 	<b>C</b>  	<b>F</b> <b>H</b> <b>H1</b> <b>L</b> <b>L1</b> <b>kg</b>
		G1/4 2.5 <b>0656 66 13</b>	20 117 34 147 81 0.173

Nozzle: nickel-plated brass

Progressive flow depending on the trigger position



Trigger position (mm)	Flow (Nl/min)
0	0
10	0
20	18
30	171
40	358
50	524


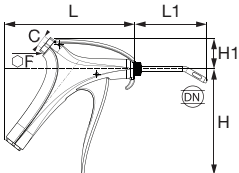


Pressure: 6 bar

524 Nl/min Flow produced with nozzle **0690 06 01**

86 dBA

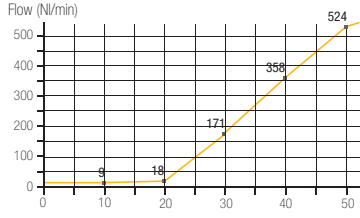
OSHA 1910.242 (b)  
OSHA 1910.95 (b)  
2003/10/EC directive:  
Requirement to use ear protection if exposure > 8 hours

## 0657 Safety Progressive Control Blowgun, Upper Connection with Short Angled Nozzle, Female BSPP

	Technical polymer, nickel-plated brass, NBR 	<b>C</b>  	<b>F</b> <b>H</b> <b>H1</b> <b>L</b> <b>L1</b> <b>kg</b>
		G1/4 2.5 <b>0657 66 13</b>	20 117 37 145 82 0.168

Nozzle: nickel-plated brass

Progressive flow depending on the trigger position



Trigger position (mm)	Flow (Nl/min)
0	0
10	0
20	18
30	171
40	358
50	524

Pressure: 6 bar


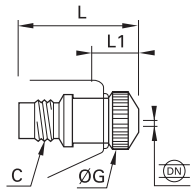







524 Nl/min Flow produced with nozzle **0690 06 01**

86 dBA


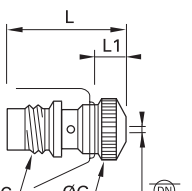







OSHA 1910.242 (b)  
OSHA 1910.95 (b)  
2003/10/EC directive:  
Requirement to use ear protection if exposure > 8 hours

# Nozzles for Polymer Blowguns


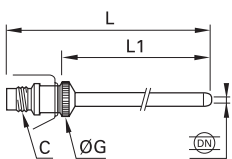







## 0690 01 Standard Nozzle

	<p>Nickel-plated brass</p> 	<p><b>C</b>  </p> <p>M12x1.25 2.5 <b>0690 01 00</b></p>	<p><b>G</b> <b>L</b> <b>L1</b> <b>kg</b></p> <p>15 31 9 0.024</p>
		 <ul style="list-style-type: none"> <li>Versatile use</li> <li>Progressive and powerful air jet</li> </ul> <p> 327 NI/min  86 dBA  23°</p> <p> OSHA 1910.95 (b) 2003/10/EC directive: Requirement to use ear protection if exposure &gt; 8 hours</p>	


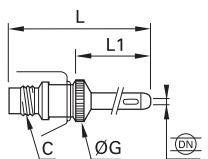


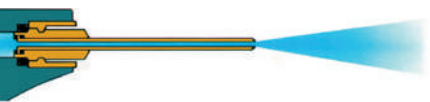




## 0690 02 Safety Nozzle

	<p>Nickel-plated brass</p> 	<p><b>C</b>  </p> <p>M12x1.25 2.5 <b>0690 02 00</b></p>	<p><b>G</b> <b>L</b> <b>L1</b> <b>kg</b></p> <p>15 31 9 0.024</p>
		 <ul style="list-style-type: none"> <li>Fluidised Powders</li> <li>Air screen effect</li> <li>Safety: avoids the nozzle becoming completely blocked</li> </ul> <p> 315 NI/min  83 dBA  26°</p> <p> OSHA 1910.95 (b)/1910.242 (b) 2003/10/EC directive: Requirement to use ear protection if exposure &gt; 8 hours</p>	


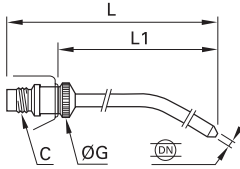







## 0690 03 Straight Nozzle (Long)

	<p>Nickel-plated brass</p> 	<p><b>C</b>  </p> <p>M12x1.25 2.5 <b>0690 03 00</b></p>	<p><b>G</b> <b>L</b> <b>L1</b> <b>kg</b></p> <p>15 332 307 0.068</p>
		 <ul style="list-style-type: none"> <li>Restricted Access</li> <li>Progressive and powerful air jet</li> </ul> <p> 386 NI/min  82 dBA  21°</p> <p> OSHA 1910.95 (b) 2003/10/EC directive: Requirement to use ear protection if exposure &gt; 8 hours</p>	

## 0690 04 Safety Straight Nozzle (Short)

	<p>Nickel-plated brass</p> 	<p><b>C</b>  </p> <p>M12x1.25 2.5 <b>0690 04 00</b></p>	<p><b>G</b> <b>L</b> <b>L1</b> <b>kg</b></p> <p>15 102 77 0.033</p>
		 <ul style="list-style-type: none"> <li>Restricted Access</li> <li>Air screen effect and directional jet</li> <li>Safety: avoids the nozzle becoming completely blocked</li> </ul> <p> 410 NI/min  82 dBA  21°</p> <p> OSHA 1910.242 (b)/ OSHA 1910.95 (b) 2003/10/EC directive: Requirement to use ear protection if exposure &gt; 8 hours</p>	

## 0690 05 Angled Nozzle (Long)

	<p>Nickel-plated brass</p> 	<p><b>C</b>  </p> <p>M12x1.25 2.5 <b>0690 05 00</b></p>	<p><b>G</b> <b>L</b> <b>L1</b> <b>kg</b></p> <p>15 316 292 0.065</p>
		 <ul style="list-style-type: none"> <li>Restricted or distant access</li> <li>Progressive and powerful air jet</li> <li>360° rotation</li> </ul> <p> 354 NI/min  82 dBA  21°</p> <p> OSHA 1910.95 (b) 2003/10/EC directive: Requirement to use ear protection if exposure &gt; 8 hours</p>	

# Nozzles for Polymer Blowguns

## 0690 06 Safety Angled Nozzle (Short)

	Nickel-plated brass		<b>C</b>	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
			M12x1.25 2.5 <b>0690 06 00</b>	15 94 70 0.033
			<ul style="list-style-type: none"> <li>Restricted Access</li> <li>Air screen effect and 360° directional jet</li> <li>Safety: avoids the nozzle becoming completely blocked</li> </ul>	

## 0690 06 01 Angled Nozzle (Short)

	Nickel-plated brass		<b>C</b>	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
			M12x1.25 2.5 <b>0690 06 01</b>	15 94 70 0.033
			<ul style="list-style-type: none"> <li>Difficult access</li> <li>Progressive and powerful air jet, 360° rotation</li> </ul>	

## 0690 07 Nozzle with LF 3000® Push-In Connection

	Nickel-plated brass		<b>ØD</b> <b>C</b>	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
			4 M12x1.25 <b>0690 07 00</b>	15 35 13 0.024
			<ul style="list-style-type: none"> <li>Restricted Access</li> <li>Progressive air jet</li> </ul>	

## 0690 09 Air Screen Safety Nozzle


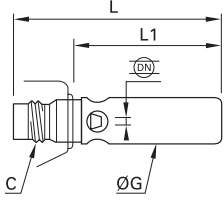


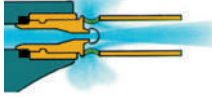




	Nickel-plated brass		<b>C</b>	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
			M12x1.25 2 <b>0690 09 00</b>	30 40.5 18.5 0.021
			<ul style="list-style-type: none"> <li>High flow for blowing large surfaces</li> <li>Air screen and deflector to avoid particles being blown back</li> <li>Safety: avoids the nozzle becoming completely blocked</li> </ul>	

## 0690 08 COANDA Nozzle


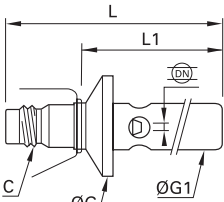


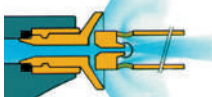




	Nickel-plated brass		<b>C</b>	<b>L</b> <b>L1</b> <b>kg</b>
			M12x1.25 <b>0690 08 00</b>	47.5 26 0.033
			<ul style="list-style-type: none"> <li>Directional air jet</li> <li>Very quiet, energy-saving</li> <li>Safety: avoids the nozzle becoming completely blocked</li> </ul>	

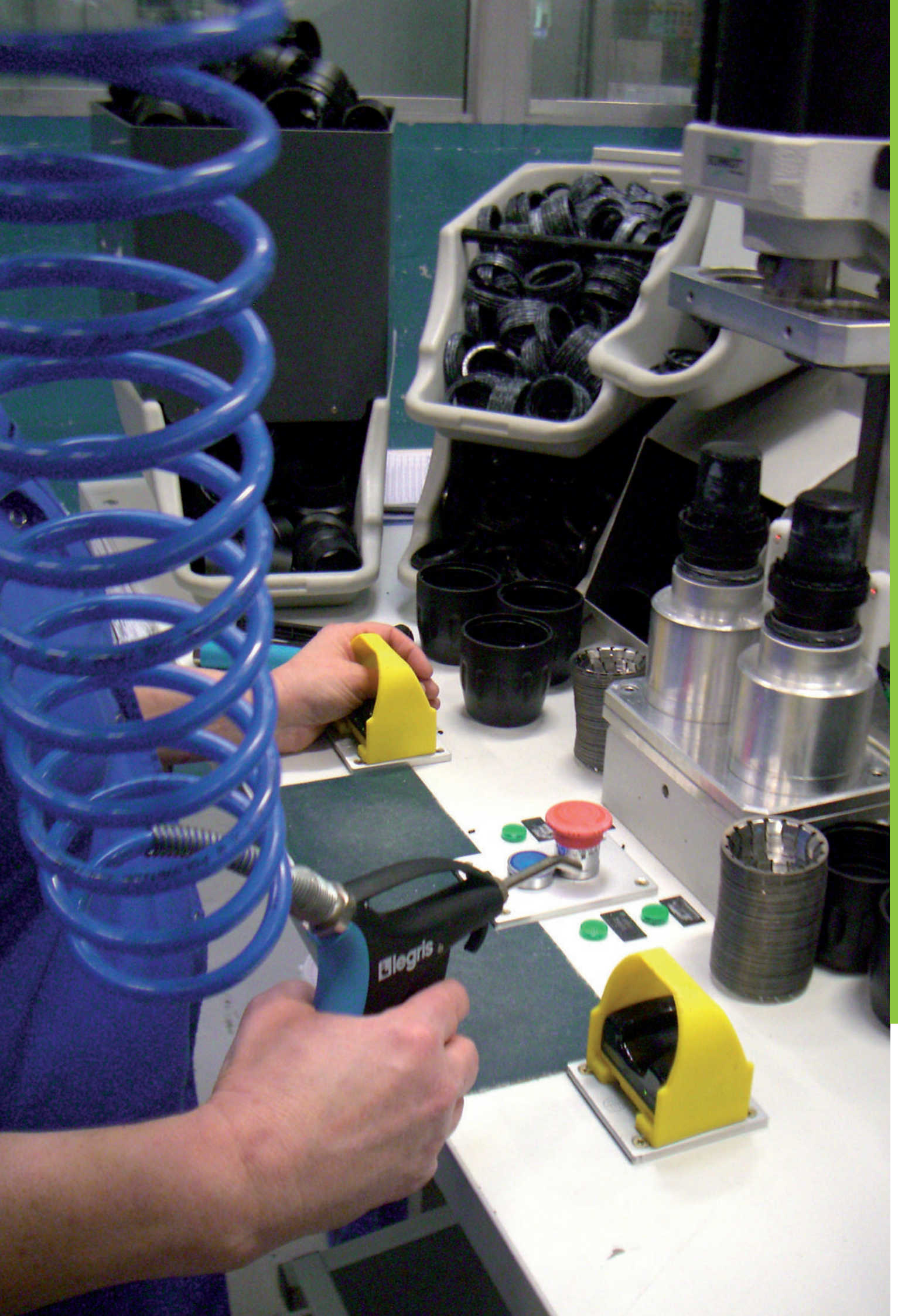
# Nozzles for Polymer Blowguns

## 0690 10 Safety Booster Nozzle

	<p>Nickel-plated brass</p> 	<p><b>C</b>  </p>	<p><b>G L L1 kg</b></p>			
			<p>M12x1.25 2.5 <b>0690 10 00</b></p>	15	64	42
		 <ul style="list-style-type: none"> <li>• High flow for blowing large surfaces</li> <li>• Air screen effect</li> <li>• Safety: avoids the nozzle becoming completely blocked</li> </ul>				
		 780 NI/min	 99 dBA	 28°	 OSHA 1910.242 (b) 2003/10/EC directive: Requires ear defenders to be used at all times	

## 0690 11 Safety Booster Nozzle with Air Screen

	<p>Nickel-plated brass</p> 	<p><b>C</b>  </p>	<p><b>G G1 L L1 kg</b></p>			
			<p>M12x1.25 2.5 <b>0690 11 00</b></p>	30	15	76
		<p>Deflector: technical polymer</p>  <ul style="list-style-type: none"> <li>• Same advantage as the Booster nozzle</li> <li>• Safety: avoids the nozzle becoming completely blocked</li> <li>• Air screen and deflector avoid particles being blown back</li> </ul>				
		 860 NI/min	 99 dBA	 26° nozzle 140° screen	 OSHA 1910.242 (b) 2003/10/EC directive: Requires ear defenders to be used at all times	



# Metal Blowguns and Water Pistols

This range of robust blowguns guarantees a **longer service life** under **severe conditions** (crushing, impact, shock and corrosion). It includes two versions **to meet all requirements** for blowing and spraying in industrial applications.

## Product Advantages

### Workshop Blowgun

Compact for easy incorporation into compressed air ring mains  
Nickel-plated forged brass for increased corrosion resistance

### Water Pistol

Intended for the transmission of water and fluids  
Designed for precise flow control and optimisation of the power and shape of the jet  
Optimum use of industrial fluids  
Excellent ergonomics and service life



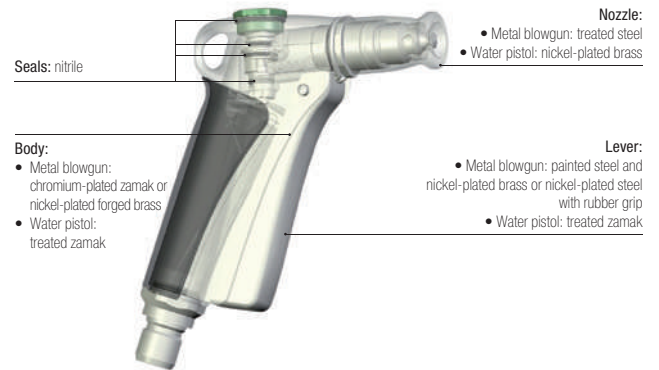
Manufacturing Workshops  
Assembly machines  
Robotics  
Ejection  
Cooling  
Packaging  
Automotive Process

Applications

## Technical Characteristics

Model	Metal Blowgun	Water Pistol
Compatible Fluids	Compressed air, industrial fluids	Water, oil, industrial fluids
Working Pressure	0 to 10 bar	0 to 20 bar
Working Temperature	Air: -15°C to +50°C Dry air: -20°C to +80°C	-20°C to +100°C
Tubes	Recoil tubes and hose	Braided hose with Parker Legris couplers

### Component Materials



### Silicone-free

### Regulations

Compliance for all blowguns:

DI: 97/23/EC (PED)


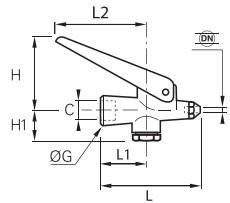


DI: 2002/95/EC (RoHS), 2011/65/EC

DI: 1907/2006 (REACH)




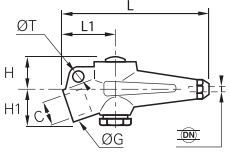


# Metal Blowguns and Water Pistols

## 0623 Lever-Operated Blowgun, Female BSPP Thread

	Nickel-plated brass, NBR 	<b>C</b>  	<b>G</b>	<b>H</b> min	<b>H</b> max	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		G1/4 2 <b>0623 10 35</b>	18	19	37	21	64	28	60	0.119


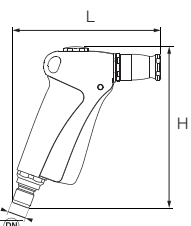

This blowgun has a hardened steel nozzle.

## 0622 Button-Operated Blowgun, Female BSPP Thread

	Nickel-plated brass, NBR 	<b>C</b>  	<b>G</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>ØT</b>	<b>kg</b>
		G1/4 2 <b>0622 26 73</b>	18	17.5	20.5	82	29	7	0.196


This blowgun has a hardened steel nozzle.


## 2299 Water Pistol

	Zamak, nickel-plated brass, NBR 		<b>H</b>	<b>L</b>	<b>kg</b>
		12 <b>2299 12 01</b>	140	126	0.471


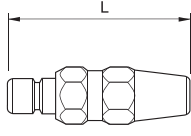

This pistol allows independent control of:

- the flow rate (trigger)
- type of jet (adjustable to a fine mist) by the adjustable nozzle

 1440 NI/min (air)  
16.2 NI/min (water)

 Adjustable

## 2299 Adjustable Nozzle

	Nickel-plated brass, NBR 		<b>L</b>	<b>kg</b>
		12 <b>2299 12 20</b>	77.4	0.137

This nozzle allows adjustment of the spray.

### Associated Products

For optimum connection and usage of the pistol and adjustable nozzle, you will find a full range of quick-acting couplers, in the Midi and Maxi Series, in Chapter 8.

**Midi** P. 8-43



**Maxi** P. 8-46



# Blowgun Kits

**Ready for use**, **simple** and **ergonomic**, the Parker Legris blowgun kit remains an essential item of equipment for any blowing or spraying operation in the industrial environment.

## Product Advantages

### Ready for Use

- Kit contents:
- one blowgun
  - a 4 metre recoil tube
  - one R1/4 threaded fitting, external diameter 8 mm
- Easy to install and comfortable to use  
 Wide range of models and nozzles for optimum flow  
 Lower or upper connection  
 Labelling and colours can be customised  
 Packaging designed to facilitate self-service sales

### Safety & Performance

- Safe operation with the Safety or OSHA models  
 Durable, shock-resistant materials  
 100% leak and flow-tested in production  
 Date coding to guarantee quality and traceability  
 Minimum pressure drop  
 Optimisation of your energy consumption with the Energy-Saving model



Manufacturing Workshops

- Cleaning
- Blowing
- Mixing
- Ejection
- Cooling
- Packaging

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: contact us
<b>Working Pressure</b>	0 to 10 bar
<b>Working Temperature</b>	Air: -15°C to +50°C Dry air: -20°C to +80°C
<b>Tubes</b>	Recoil tubing

### Regulations

#### Compliance for all blowguns:

- DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 1907/2006 (REACH)

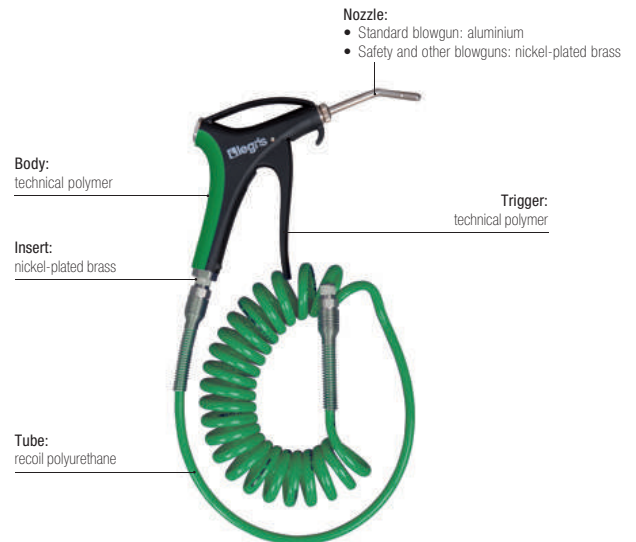
#### Protection of design

All designs and models of Parker Legris blowguns have been registered with the following numbers: 13224 / 13225 / 13226.

#### Compliance for specific blowguns:

- DI: 1910.242 (b) [OSHA]  
 The static pressure must be less than 30 psi in case the nozzle becomes blocked.  
 DI: 1910.95 (b) [OSHA]  
 The noise level must be less than 90 dBA over 8 hours' exposure.  
 DI: 2003/10/EC  
 Regulation relating to exposure to noise, particularly with regard to risks to hearing. The noise level must be less than 87 dBA.

### Component Materials



### Silicone-free


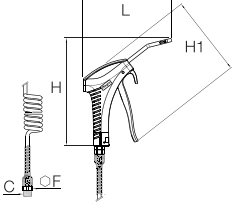

## Customisation on request

- Marking
- Kit contents adaptable to your applications
- Additional functions
- Colour


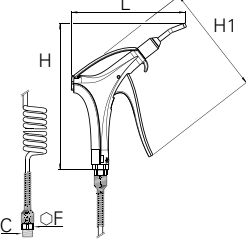



# Blowgun Kits


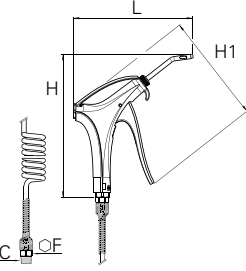

## 0631..09 Blowgun Kit, Lower Connection, Male BSPT Thread

	<p>Technical polymer, nickel-plated brass, treated aluminium, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 09</b></p>	16	192.5	139.5	152	0.441
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0659 00 13).</p>							


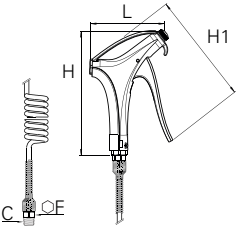

## 0631..01 Safety Blowgun Kit, Lower Connection, Male BSPT Thread

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 01</b></p>	16	198.5	148.5	154	0.575
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0654 00 13).</p>							

## 0631..23 Energy Saving Blowgun Kit with Angled Nozzle, Male BSPT Thread


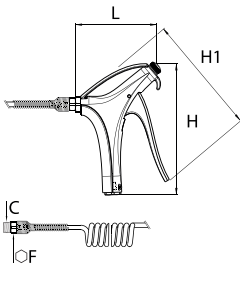

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 23</b></p>	16	195	148.5	154	0.456
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0653 66 13). External diameter of tube 6 mm</p>							

## 0631..03 Blowgun Kit, Lower Connection with Standard Nozzle, Male BSPT Thread


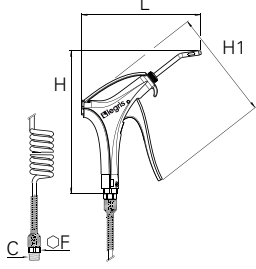

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 03</b></p>	16	165	148.5	99	0.528
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0651 66 13).</p>							

# Blowgun Kits


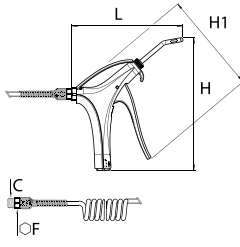

## 0631..02 Blowgun Kit, Upper Connection with Standard Nozzle, Male BSPT Thread

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 02</b></p>	16	163	148.5	101	0.524
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0658 66 13).</p>							


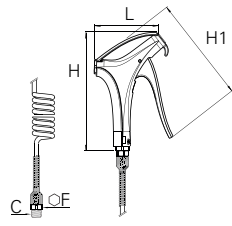

## 0631..05 Blowgun Kit Lower Connection with Short Angled Nozzle, Male BSPT Thread

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 05</b></p>	16	195,5	148,5	163	0,536
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0656 66 13).</p>							

## 0631..04 Blowgun Kit, Lower Connection with Short Angled Nozzle, Male BSPT Thread


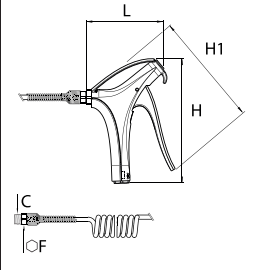

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 04</b></p>	16	195	148.5	163.5	0.617
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0657 66 13).</p>							

## 0631..07 Blowgun Kit, Lower Connection with Interchangeable Nozzle, Male BSPT Thread

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 07</b></p>	16	163	148.5	91	0.617
<p>Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0656 66 13). Delivered without nozzle.</p>							


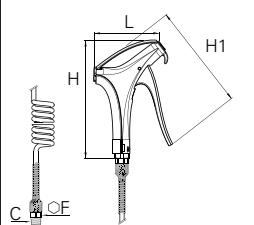

# Blowgun Kits

## 0631..06 Blowgun Kit, Upper Connection with Interchangeable Nozzle, Male BSPT Thread

	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 06</b></p>	16	161.5	148.5	93	0.501

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0655 66 13).  
Delivered without nozzle.

## 0631..08 Energy Saving Blowgun Kit, Lower Connection, Interchangeable Nozzle, Male BSPT Thread

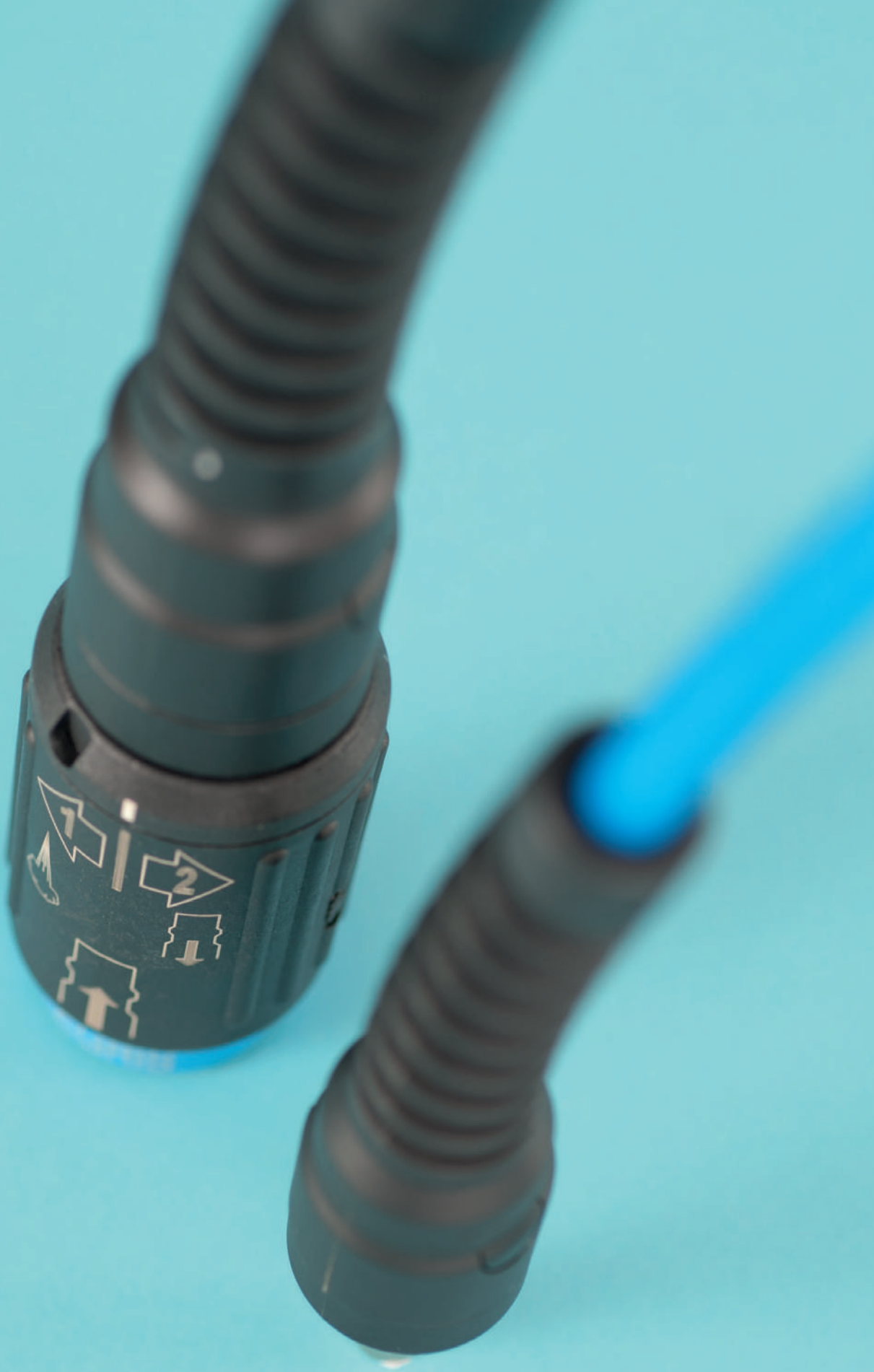
	<p>Technical polymer, nickel-plated brass, NBR, polyurethane tubing</p> 	<p><b>C</b> </p>	<b>F</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
		<p>R1/4 <b>0631 00 08</b></p>	16	163	148.5	91	0.496

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0653 66 13).  
Delivered without nozzle.

# Quick-Acting Couplers

**Polymer Safety, C 9000**

**Metal: Nickel-Plated Brass and Stainless Steel**



# Quick-Acting Couplers

## C 9000 Polymer Quick-Acting Safety Couplers (P. 8-7)



**Fluids:** compressed air

**Materials:** reinforced technical polymer, nickel-plated brass

**Pressure:** 16 bar

**Temperature:** -20°C to +60°C

**DN** : 5.5 mm to 8 mm

## Metal Quick-Acting Couplers (P. 8-18)



**Fluids:** compressed air, water, industrial fluids

**Materials:** nickel-plated brass or stainless steel

**Pressure:** 35 bar (stainless steel), 20 bar (brass)

**Temperature:** -15°C to +200°C (stainless steel), -20°C to +100°C (brass)

**DN** : 2 mm to 19 mm

## Metal Quick-Acting Mould Couplers (P. 8-50)



**Fluids:** heat transfer fluids

**Materials:** nickel-plated brass

**Pressure:** 10 bar

**Temperature:** -15°C to +90°C

**DN** : 8 mm to 12 mm

## 3 Shut-Off Functions

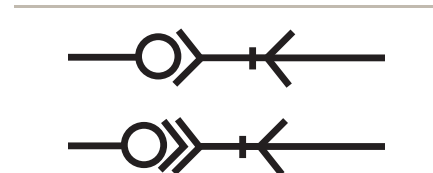
### Straight-Through

These couplers work without shut-off, meaning they offer maximum flow. Straight-Through couplers are designed to carry fluids such as water, coolants, etc. Before disconnection, the fluid flow must be shut off using a valve located upstream of the coupler.



### Single Shut-Off (with or without vent)

On our single shut-off couplers, the male probe is straight-through. The fluid flow can be stopped in the female coupler when disconnected. The circuit can be vented upstream to avoid any risk of whiplash.



### Double Shut-Off

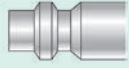
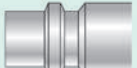


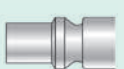






On our double shut-off couplers, after disconnection, flow is prevented both upstream of the female coupler and downstream of the probe. Both sides of the circuit remain under pressure.





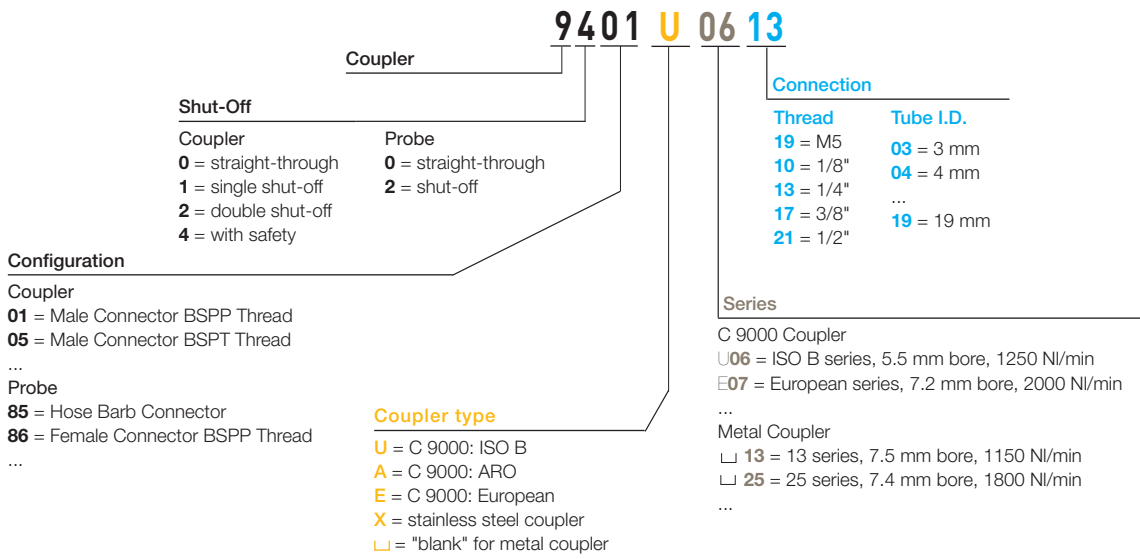
# Technology and Flow Rates

The profiles of the Parker Legris quick-acting couplers are manufactured to conform to international standards and are interchangeable with other manufacturers' products meeting these standards.

Profile Description	Profile	Interchangeability	Flow (NI/min)	Bore Diameter (mm)
ISO B Standard		C 9000 Rectus 23 Rectus 24	1250 900 550	5.5
		C 9000 Rectus 30	2400 890	8 8.5
European Standard		C 9000 Rectus 26 Rectus 25	2000 1000 1800	7.2 7.2 7.4
		Rectus 27	2400	10
ARO Standard		C 9000 Rectus 14 Rectus 22	1250 560 800	5.5
ISO C Standard		Rectus 18	970	5.5
Asian Standard		Rectus 13	1150	7.5
UK Standard		Rectus 17	870	5
		Rectus 19	660	5.5
German Standard		Rectus 20	165	2.7
		Rectus 21	560	5

# Quick-Acting Coupler Part Numbers

Standard Product



# C 9000 Polymer Quick-Acting Safety Coupler Range

## C 9000 Polymer Quick-Acting Safety Couplers

### ISO B Profile

**9401U** Page 8-10   **9405U** Page 8-10   **9414U** Page 8-10   **9410U** Page 8-10   **9421U** Page 8-10   **9416U** Page 8-11   **9440U** Page 8-11



**9087U** Page 8-11   **9086U** Page 8-11   **9080U** Page 8-12   **9094U** Page 8-12



### European Profile

**9401E** Page 8-13   **9414E** Page 8-13   **9410E** Page 8-13   **9421E** Page 8-13   **9416E** Page 8-13   **9440E** Page 8-14



**9087E** Page 8-14   **9086E** Page 8-14   **9080E** Page 8-14   **9094E** Page 8-14



### ARO Profile

**9401A** Page 8-15   **9405A** Page 8-15   **9414A** Page 8-15   **9410A** Page 8-15   **9421A** Page 8-15   **9416A** Page 8-16   **9440A** Page 8-16



**9087A** Page 8-16   **9086A** Page 8-16   **9084A** Page 8-16   **9080A** Page 8-17   **9094A** Page 8-17



# C 9000 Polymer Quick-Acting Safety Couplers

This range of ergonomic polymer couplers has been designed for **the safety of operators and machinery** while giving very high **energy efficiency performance**. Available in three profile standards, it is perfectly suited for any type of installation.

## Product Advantages

- |                                 |  |
|---------------------------------|--|
| <b>Safety &amp; Reliability</b> | <ul style="list-style-type: none"> <li>Prevents risk of whiplash</li> <li>Quick-acting vent allowing disconnection to be carried out in total safety</li> <li>Rotating sleeve to avoid risk of accidental disconnection</li> <li>Low connection/disconnection force even under pressure</li> <li>Polymer sleeve protects equipment from scratching</li> <li>Protective spiral over the tube prevents kinking</li> </ul>  |
| <b>Performance</b>              | <ul style="list-style-type: none"> <li>Very high flow and low pressure drop</li> <li>100% leak-tested in production</li> <li>Date coding to guarantee quality and traceability</li> <li>Robust impact-resistant material</li> <li>Optimum energy efficiency</li> <li>Long-term reliability</li> </ul>  |
| <b>Easy-to-Use</b>              | <ul style="list-style-type: none"> <li>Immediate identification by clear marking on each model showing:                             <ul style="list-style-type: none"> <li>• profile of the compatible male probe</li> <li>• type part number</li> </ul> </li> <li>Compatible with male probes conforming to:                             <ul style="list-style-type: none"> <li>• ISO B profile</li> <li>• European profile</li> <li>• ARO profile</li> </ul> </li> </ul> |



**Applications**

- Workshops
- Cleaning
- Blowing
- Pneumatics
- Air-Operated Tools
- Ring Main Circuits
- Packaging

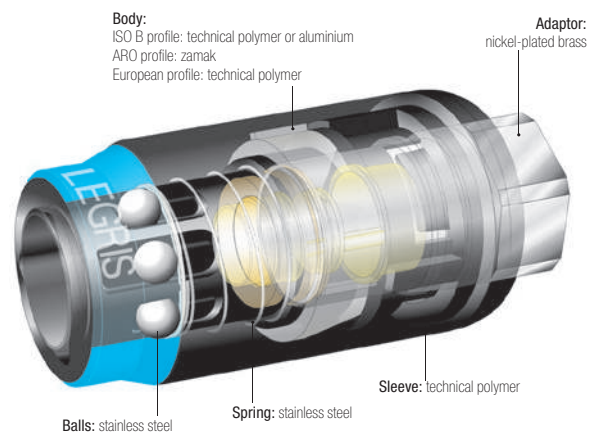
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	0 to 16 bar
<b>Working Temperature</b>	-20°C to +60°C

### Regulations

DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 1907/2006 (REACH)  
 ISO 4414 Pneumatic Fluid Power: General Rules Relating to Systems  
 DIN EN 983 Safety Standard for Pneumatics

### Component Materials

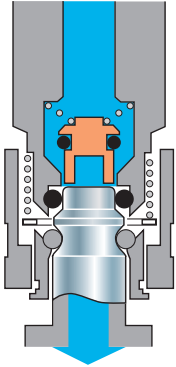


**Silicone-free**

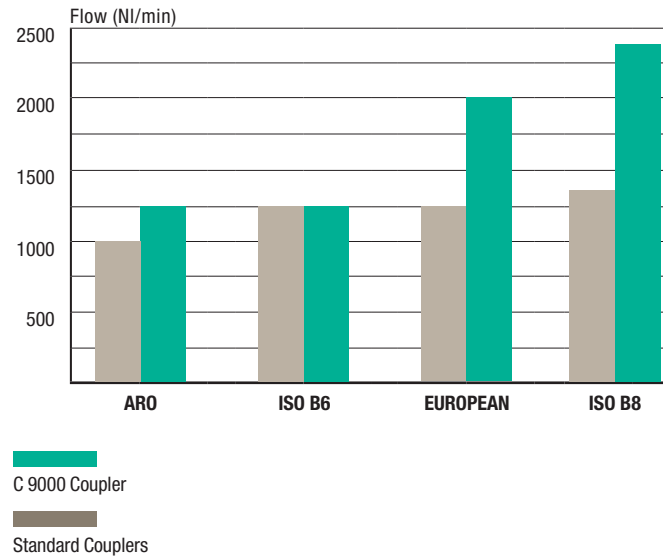
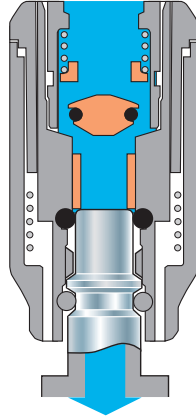
# C 9000 Polymer Quick-Acting Safety Couplers

## C 9000 Technology and Flow Rates

"Typical" quick-acting coupler  
Standard "poppet" technology  
Flow: 1400 NI/min



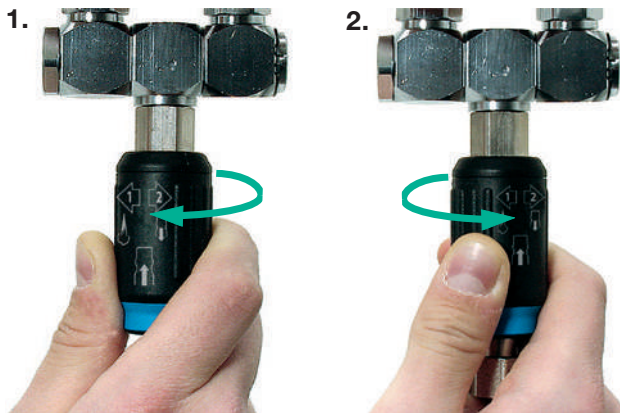
C 9000 quick-acting coupler  
"Optimal flow" technology  
Flow: 2400 NI/min



Measurements carried out in accordance with ISO 6358 at a pressure of 6 bar, pressure drop < 0.7 bar

## Operation

### Operation



Disconnecting the probe

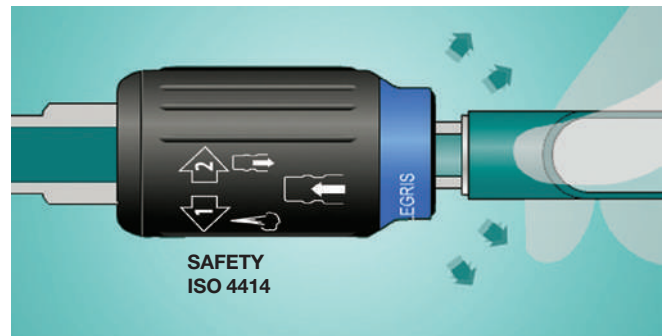
Rotation, arrow 1: circuit vented on probe side.

Rotation, arrow 2: probe disconnected from the body.

Connecting the probe

The sleeve does not need to be rotated to connect the probe.

### Venting



ISO B6 profile, recoil tubing (I.D. 6 mm, length 6 m)

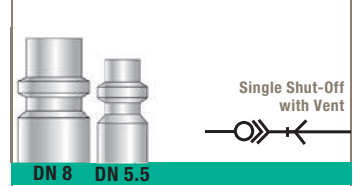
Venting time = 350 ms (transition from 6 bar to 0.2 bar)

ISO B8 profile, PVC tubing (I.D. 10 mm, length 25 m)


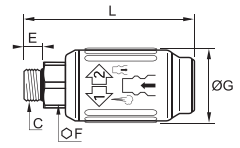

Venting time = 860 ms (transition from 6 bar to 0.2 bar)

Even with longer lengths of tubing, the vent time of the C 9000 coupler can be less than 1 second.

# ISO B Profile


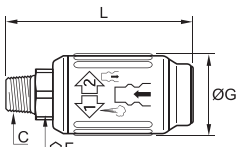



## 9401U Coupler, Male BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5.5	G1/4	<a href="#">9401U06 13</a>	7.5	17	31.5	74	0.075
				G3/8	<a href="#">9401U06 17</a>	8.5	21	31.5	76.5	0.095
				G1/2	<a href="#">9401U06 21</a>	10.5	25	31.5	80	0.115
			8	G1/4	<a href="#">9401U08 13</a>	6.5	22	36.5	81.5	0.120
				G3/8	<a href="#">9401U08 17</a>	7.5	22	36.5	82.5	0.133
				G1/2	<a href="#">9401U08 21</a>	9	25	36.5	85.5	0.140


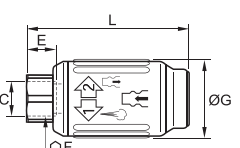

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9405U Coupler, Male BSPT Thread

	Technical polymer, nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5.5	R1/4	<a href="#">9405U06 13</a>	17	31.5	75	0.075
				R3/8	<a href="#">9405U06 17</a>	19	31.5	76.5	0.095
				R1/2	<a href="#">9405U06 21</a>	22	31.5	81.5	0.110
			8	R1/4	<a href="#">9405U08 13</a>	22	36.5	84	0.120
				R3/8	<a href="#">9405U08 17</a>	22	36.5	84	0.120
				R1/2	<a href="#">9405U08 21</a>	22	36.5	88	0.140


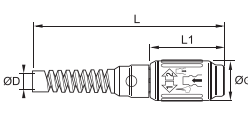

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9414U Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5.5	G1/4	<a href="#">9414U06 13</a>	12	17	31.5	66.5	0.070
				G3/8	<a href="#">9414U06 17</a>	12	22	31.5	72	0.085
				G1/2	<a href="#">9414U06 21</a>	15	27	31.5	78	0.115
			8	G1/4	<a href="#">9414U08 13</a>	12	22	36.5	75	0.127
				G3/8	<a href="#">9414U08 17</a>	12	22	36.5	75	0.144
				G1/2	<a href="#">9414U08 21</a>	15	27	36.5	80	0.138


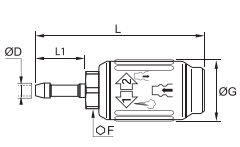

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9410U Coupler, LF 3000® Push-In Connection, Body Spiral Protection Spring

	Technical polymer, nickel-plated brass, NBR 		<b>DN</b>	<b>ØD</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
			5.5	8	<a href="#">9410U06 08</a>	31.5	145	56	0.096
				10	<a href="#">9410U06 10</a>	31.5	145	56	0.080
			8	10	<a href="#">9410U08 10</a>	36.5	155	63	0.175
				12	<a href="#">9410U08 12</a>	36.5	165	63	0.162

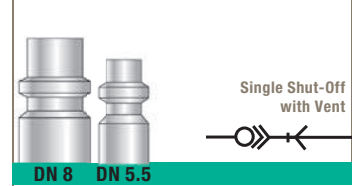
C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9421U Coupler with Hosetail


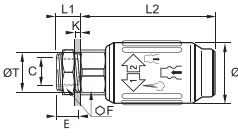

	Technical polymer, nickel-plated brass, NBR 		<b>DN</b>	<b>ØD</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
			5.5	6	<a href="#">9421U06 06</a>	17	31.5	88.5	26	0.070
				8	<a href="#">9421U06 08</a>	17	31.5	88.5	26	0.070
				10	<a href="#">9421U06 10</a>	17	31.5	88.5	26	0.070
			8	6	<a href="#">9421U08 06</a>	22	36.5	95	26	0.110
				8	<a href="#">9421U08 08</a>	22	36.5	95	26	0.100
				10	<a href="#">9421U08 10</a>	22	36.5	95	26	0.124
				13	<a href="#">9421U08 13</a>	22	36.5	99	30	0.125

C 9000 Series ISO B (DN 5.5): single shut-off flow = 1250 NI/min  
C 9000 Series ISO B (DN 8): single shut-off flow = 2400 NI/min

# ISO B Profile


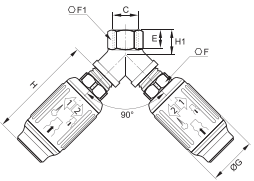



## 9416U Coupler, Bulkhead Mountable, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	(DN) C 	E	F	G	K <sub>max</sub>	L1	L2	ØT <sub>min</sub>	kg
		5.5 G1/4 <a href="#">9416U06 13</a>	12	22	31.5	6	12.5	68.5	18.5	0.105
		8 G3/8 <a href="#">9416U08 17</a>	12	24	36.5	7	14.5	76	22.5	0.150


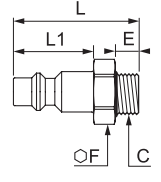

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9440U Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	(DN) C 	E	F	F1	G	H	H1	kg
		5.5 G3/8 <a href="#">9440U06 17</a>	11.5	19	20	31.5	70	16	0.207
		8 G1/2 <a href="#">9440U08 21</a>	14	22	25	36.5	80	19	0.352


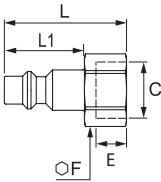

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9087U Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer 	(DN) C 	E	F	L	L1	kg
		5.5 G1/4 <a href="#">9087U06 13</a>	9	17	38	24	0.025
		G3/8 <a href="#">9087U06 17</a>	9	19	38	24	0.032
		G1/2 <a href="#">9087U06 21</a>	12	22	42	24	0.048
		8 G1/4 <a href="#">9087U08 13</a>	9	17	38	24	0.030
		G3/8 <a href="#">9087U08 17</a>	9	19	39	24	0.036
G1/2 <a href="#">9087U08 21</a>	12	22	42	24	0.058		


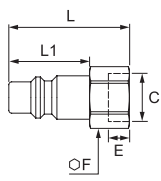

Probe without shut-off

## 9086U Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 	(DN) C 	E	F	L	L1	kg
		5.5 G1/4 <a href="#">9086 23 13</a>	9	17	36	24	0.025
		G3/8 <a href="#">9086 23 17</a>	9	19	36	24	0.025
		G1/2 <a href="#">9086 23 21</a>	12	24	39	24	0.039

Probe without shut-off

## 9086U Probe, Straight-Through, Female BSPP Thread

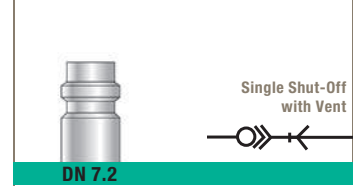
	Nickel-plated steel 	(DN) C 	E	F	L	L1	kg
		8.5 G1/4 <a href="#">9086 30 13</a>	10	17	40	28	0.032
		G3/8 <a href="#">9086 30 17</a>	10	19	42	28	0.035
		G1/2 <a href="#">9086 30 21</a>	12	24	43	28	0.046

Probe without shut-off  
30 Series probe (DN 8.5) compatible with ISO B series C 9000 couplers (DN 8)


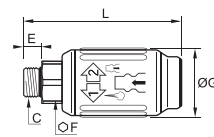






# European Profile


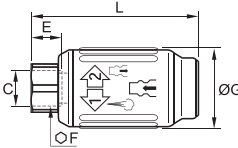




## 9401E Coupler, Male BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>								
										G1/4	<a href="#">9401E07 13</a>	6.5	22	36.5	80	0.124	
										7.2	G3/8	<a href="#">9401E07 17</a>	7.5	22	36.5	81	0.122
											G1/2	<a href="#">9401E07 21</a>	9	25	36.5	83.5	0.136


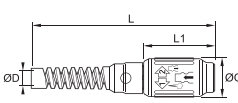


C 9000 Series: single shut-off = 2000 NI/min

## 9414E Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>								
										G1/4	<a href="#">9414E07 13</a>	12	22	36.5	73	0.118	
										7.2	G3/8	<a href="#">9414E07 17</a>	12	22	36.5	73	0.109
											G1/2	<a href="#">9414E07 21</a>	15	27	36.5	78	0.130


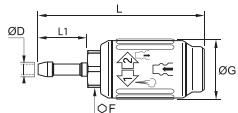


C 9000 Series: single shut-off = 2000 NI/min

## 9410E Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

	Technical polymer, nickel-plated brass, NBR 		<b>ØD</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>						
									10	<a href="#">9410E07 10</a>	36.5	151	63	0.175
									7.2	12	<a href="#">9410E07 12</a>	36.5	151	63


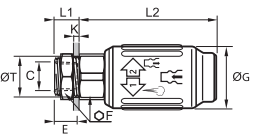


C 9000 Series: single shut-off = 2000 NI/min

## 9421E Coupler with Hosetail

	Technical polymer, nickel-plated brass, NBR 		<b>ØD</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>								
										8	<a href="#">9421E07 08</a>	22	36.5	93	26	0.113	
										7.2	10	<a href="#">9421E07 10</a>	22	36.5	93	26	0.114
											13	<a href="#">9421E07 13</a>	22	36.5	97	30	0.119

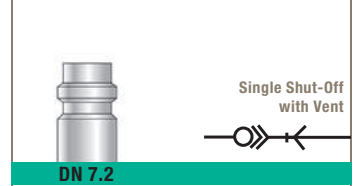
C 9000 Series: single shut-off = 2000 NI/min

## 9416E Coupler, Bulkhead Mountable, Female BSPP Thread


	Technical polymer, nickel-plated brass, NBR 		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>K max</b>	<b>L1</b>	<b>L2</b>	<b>ØT min</b>	<b>kg</b>											
													7.2	G3/8	<a href="#">9416E07 17</a>	12	24	36.5	7	14.5	74	22.5	0.153

C 9000 Series: single shut-off = 2000 NI/min

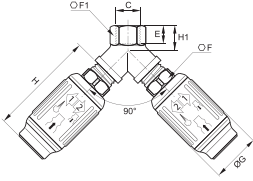
# European Profile



## 9440E Y Coupler, Female BSPP Thread




Technical polymer, nickel-plated brass, NBR



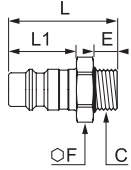
DN	C		E	F	F1	G	H	H1	kg
7.2	G1/2	<a href="#">9440E07 21</a>	14	25	25	36.5	78	19	0.335

C 9000 Series: single shut-off = 2000 NI/min

## 9087E Probe, Straight-Through, Male BSPP Thread




Nickel-plated steel, technical polymer



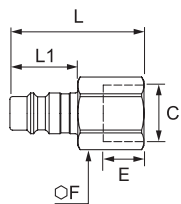
DN	C		E	F	L	L1	kg
7.2	G1/4	<a href="#">9087E07 13</a>	9	14	34	20	0.018
	G3/8	<a href="#">9087E07 17</a>	9	17	34	20	0.025
	G1/2	<a href="#">9087E07 21</a>	12	22	38	20	0.048

Probe without shut-off

## 9086E Probe, Straight-Through, Female BSPP Thread




Nickel-plated steel



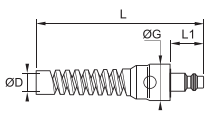
DN	C		E	F	L	L1	kg
7.4	G1/8	<a href="#">9086 25 10</a>	7	14	32	20	0.015
	G1/4	<a href="#">9086 25 13</a>	9	17	38.5	20	0.027
	G3/8	<a href="#">9086 25 17</a>	9	19	33	20	0.027
	G1/2	<a href="#">9086 25 21</a>	12	24	36	20	0.050

Probe without shut-off

## 9080E Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring




Nickel-plated steel, NBR



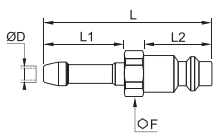
DN	ØD		G	L	L1	kg
7.2	10	<a href="#">9080E07 10</a>	24	114	20	0.102
	12	<a href="#">9080E07 12</a>	29.5	125	20	0.088

Probe without shut-off

## 9094E Probe, Straight-Through, with Hosetail



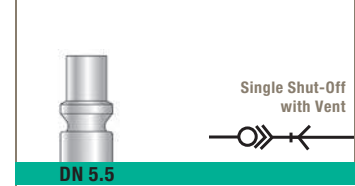
Nickel-plated steel




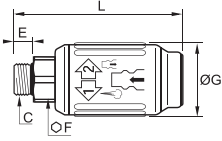


DN	ØD		F	L	L1	L2	kg
7.2	8	<a href="#">9094E07 08</a>	17	48	20	25	0.014
	10	<a href="#">9094E07 10</a>	17	48	20	25	0.016
	13	<a href="#">9094E07 13</a>	17	48	20	25	0.019

Probe without shut-off


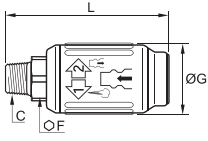


# ARO Profile




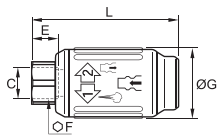


## 9401A Coupler, Male BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>			
			5.5	G1/4	<a href="#">9401A06 13</a>	6.5	17	31.5	70.5	0.105
				G3/8	<a href="#">9401A06 17</a>	9	21	31.5	73.5	0.123
				G1/2	<a href="#">9401A06 21</a>	9	25	31.5	70.5	0.150
C 9000 series: single shut-off = 1250 NI/min										


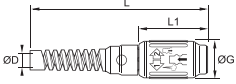


## 9405A Coupler, Male BSPT Thread

	Technical polymer, nickel-plated brass, NBR 	 <b>C</b> 	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>			
			5.5	R1/4	<a href="#">9405A06 13</a>	17	31.5	73	0.105
				R3/8	<a href="#">9405A06 17</a>	19	31.5	74.5	0.110
				R1/2	<a href="#">9405A06 21</a>	22	31.5	79.5	0.140
C 9000 series: single shut-off = 1250 NI/min									


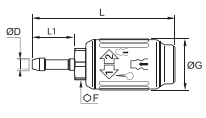


## 9414A Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>			
			5.5	G1/4	<a href="#">9414A06 13</a>	12	17	31.5	64.5	0.095
				G3/8	<a href="#">9414A06 17</a>	12	22	31.5	70	0.115
				G1/2	<a href="#">9414A06 21</a>	15	27	31.5	76	0.145
C 9000 series: single shut-off = 1250 NI/min										

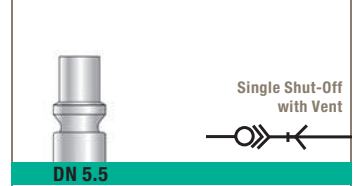
## 9410A Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

	Technical polymer, nickel-plated brass, NBR 	 <b>ØD</b> 	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>			
			5.5	8	<a href="#">9410A06 08</a>	31.5	143	54	0.140
				10	<a href="#">9410A06 10</a>	31.5	143	54	0.175
C 9000 series: single shut-off = 1250 NI/min									


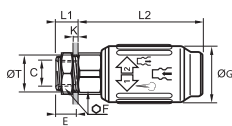

## 9421A Coupler with Hosetail

	Technical polymer, nickel-plated brass, NBR 	 <b>ØD</b> 	<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>			
			5.5	6	<a href="#">9421A06 06</a>	17	31.5	86.5	26	0.110
				8	<a href="#">9421A06 08</a>	17	31.5	86.5	26	0.100
				10	<a href="#">9421A06 10</a>	17	31.5	86.5	26	0.100
C 9000 series: single shut-off = 1250 NI/min										


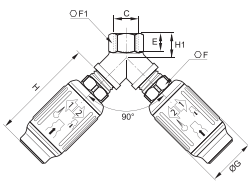

# ARO Profile




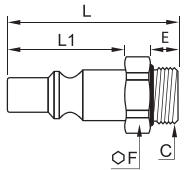

## 9416A Coupler, Bulkhead Mountable, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	DN <b>C</b>		<b>E</b> <b>F</b> <b>G</b> <b>K</b> <b>L1</b> <b>L2</b> <b>ØT</b> <b>kg</b>
C 9000 series: single shut-off = 1250 NI/min				


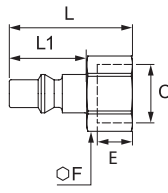

## 9440A Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	DN <b>C</b>		<b>E</b> <b>F</b> <b>F1</b> <b>G</b> <b>H</b> <b>H1</b> <b>kg</b>
C 9000 series: single shut-off = 1250 NI/min				


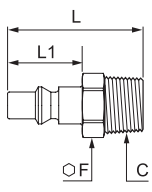

## 9087A Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer 	DN <b>C</b>		<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
					G1/4 <b>9087A06 13</b>	9 17 36 22 0.020
					5.5 G3/8 <b>9087A06 17</b>	9 19 36 22 0.024
					G1/2 <b>9087A06 21</b>	12 24 40 22 0.039
Probe without shut-off						

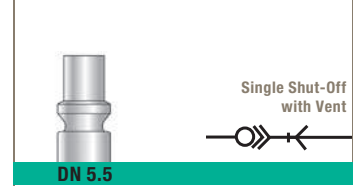
## 9086A Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 	DN <b>C</b>		<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
					G1/4 <b>9086 22 13</b>	9 17 35.5 22 0.024
					5.5 G3/8 <b>9086 22 17</b>	10 19 35.5 22 0.023
					G1/2 <b>9086 22 21</b>	12 24 38 22 0.039
Probe without shut-off						


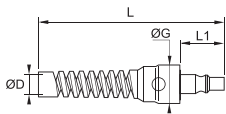


## 9084A Probe, Straight-Through, Male BSPT Thread

	Nickel-plated steel 	DN <b>C</b>		<b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
					R1/4 <b>9084 22 13</b>	14 40.5 22 0.020
					5.5 R3/8 <b>9084 22 17</b>	17 40.5 22 0.031
					R1/2 <b>9084 22 21</b>	22 46 22 0.048
Probe without shut-off						


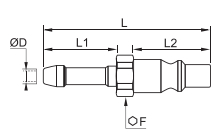


# ARO Profile



## 9080A Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

	Nickel-plated steel, NBR 	 <b>ØD</b> 	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
		5.5	8	<a href="#">9080A06 08</a>	24	118	22	0.028
			10	<a href="#">9080A06 10</a>	24	118	22	0.027
Probe without shut-off								

## 9094A Probe, Straight-Through, with Hosetail

	Nickel-plated steel 	 <b>ØD</b> 	<b>F</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>		
			6	<a href="#">9094A06 06</a>	14	48.5	22	25	0.012
		5.5	8	<a href="#">9094A06 08</a>	14	48.5	22	25	0.014
	10	<a href="#">9094A06 10</a>	14	48.5	22	25	0.016		
Probe without shut-off									

# Metal Quick-Acting Coupler Range

## Nickel-Plated Brass Quick-Acting Couplers

### ISO B Profile, 23, 24 and 30 Series

- |                                       |  |                                       |  |                                       |  |  |  |  |  |
|---------------------------------------|--|---------------------------------------|--|---------------------------------------|--|--|--|--|--|
| <b>9101</b><br>23 Series<br>Page 8-25 | <b>9101</b><br>24 & 30 Series<br>Page 8-25 | <b>9114</b><br>23 Series<br>Page 8-25 | <b>9114</b><br>24 & 30 Series<br>Page 8-25 | <b>9123</b><br>23 Series<br>Page 8-25 | <b>9123</b><br>24 & 30 Series<br>Page 8-26 | <b>9087</b><br>23, 24 & 30 Series<br>Page 8-26 | <b>9086</b><br>23, 24 & 30 Series<br>Page 8-26 | <b>9085</b><br>23, 24 & 30 Series<br>Page 8-26 | <b>9293</b><br>23 & 24 Series<br>Page 8-26 |
|---------------------------------------|--|---------------------------------------|--|---------------------------------------|--|--|--|--|--|



### European Profile, 25, 26 and 27 Series

- |                                       |  |                                       |  |  |  |  |  |  |  |  |  |
|---------------------------------------|--|---------------------------------------|--|--|--|--|--|--|--|--|--|
| <b>9101</b><br>26 Series<br>Page 8-27 | <b>9201</b><br>25 & 27 Series<br>Page 8-27 | <b>9114</b><br>26 Series<br>Page 8-27 | <b>9214</b><br>25 & 27 Series<br>Page 8-27 | <b>9223</b><br>25 & 27 Series<br>Page 8-27 | <b>9087</b><br>25, 26 & 27 Series<br>Page 8-28 | <b>9086</b><br>25, 26 & 27 Series<br>Page 8-28 | <b>9085</b><br>25 & 27 Series<br>Page 8-28 | <b>9287</b><br>25 & 27 Series<br>Page 8-28 | <b>9286</b><br>25 & 27 Series<br>Page 8-29 | <b>9285</b><br>25 & 27 Series<br>Page 8-29 | <b>9293</b><br>25 & 27 Series<br>Page 8-29 |
|---------------------------------------|--|---------------------------------------|--|--|--|--|--|--|--|--|--|



### ARO Profile, 14 and 22 Series

- |                                       |                                       |                                       |                                       |                                       |                                       |  |  |  |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|
| <b>9101</b><br>14 Series<br>Page 8-30 | <b>9105</b><br>22 Series<br>Page 8-30 | <b>9114</b><br>14 Series<br>Page 8-30 | <b>9114</b><br>22 Series<br>Page 8-30 | <b>9123</b><br>14 Series<br>Page 8-30 | <b>9123</b><br>22 Series<br>Page 8-31 | <b>9084</b><br>14 & 22 Series<br>Page 8-31 | <b>9086</b><br>14 & 22 Series<br>Page 8-31 | <b>9085</b><br>14 & 22 Series<br>Page 8-31 |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|



### ISO C Profile, 18 Series

- |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>9101</b><br>Page 8-32 | <b>9114</b><br>Page 8-32 | <b>9123</b><br>Page 8-32 | <b>9087</b><br>Page 8-32 | <b>9086</b><br>Page 8-32 | <b>9085</b><br>Page 8-32 |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|



### Asian Profile, 13 Series

- |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>9105</b><br>Page 8-33 | <b>9114</b><br>Page 8-33 | <b>9123</b><br>Page 8-33 | <b>9084</b><br>Page 8-33 | <b>9086</b><br>Page 8-33 | <b>9085</b><br>Page 8-33 |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|



### UK Profile, 17 and 19 Series

- |                                       |                                       |                                       |                                       |                                       |                                       |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| <b>9105</b><br>17 Series<br>Page 8-34 | <b>9114</b><br>17 Series<br>Page 8-34 | <b>9123</b><br>17 Series<br>Page 8-34 | <b>9084</b><br>17 Series<br>Page 8-34 | <b>9086</b><br>17 Series<br>Page 8-34 | <b>9085</b><br>17 Series<br>Page 8-34 |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|



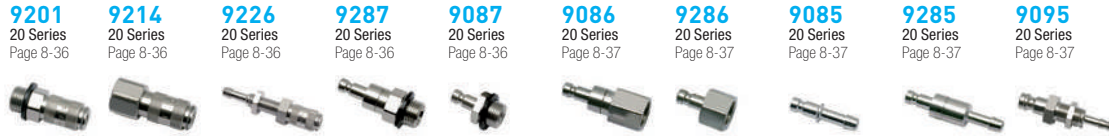
- |                                       |                                       |                                       |                                       |                                       |                                       |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| <b>9105</b><br>19 Series<br>Page 8-35 | <b>9114</b><br>19 Series<br>Page 8-35 | <b>9123</b><br>19 Series<br>Page 8-35 | <b>9084</b><br>19 Series<br>Page 8-35 | <b>9086</b><br>19 Series<br>Page 8-35 | <b>9085</b><br>19 Series<br>Page 8-35 |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|



# Metal Quick-Acting Coupler Range

## Nickel-Plated Brass Quick-Acting Couplers

### German Profile, 20 and 21 Series



### Mini Series



### Standard Series



### Midi Series



### Maxi Series



# Metal Quick-Acting Coupler Range

## Stainless Steel Quick-Acting Couplers

European Profile, X25 and X27 Series

**9201** Page 8-47   **9214** Page 8-47   **9287** Page 8-47   **9087** Page 8-47   **9286** Page 8-47   **9086** Page 8-47



German Profile, X20 Series

**9201** Page 8-48   **9214** Page 8-48   **9287** Page 8-48   **9087** Page 8-48   **9286** Page 8-48   **9086** Page 8-48



German Profile, X21 Series

**9201** Page 8-49   **9214** Page 8-49   **9287** Page 8-49   **9087** Page 8-49   **9286** Page 8-49   **9086** Page 8-49



## Quick-Acting Mould Couplers

**9020** Page 8-51   **9040** Page 8-51   **9075** Page 8-51



## Metal Quick-Acting Coupler Accessories

**9071** Page 8-53   **0691** Page 8-53   **0681** Page 8-53   **0164** Page 8-53   **0167** Page 8-53







# Metal Quick-Acting Couplers

In order to fulfill the requirements of the **widest range of industrial applications**, Parker Legris offers a range of metal couplers compatible with a large selection of fluids.

**Simple to install**, with or without shut-off valves, these couplers offer a **high flow rate capability**.

## Product Advantages

**Easy-to-Use** | Coupler with sliding sleeve: automatic connection and disconnection  
 Wide variety of male probes  
 Extremely compact  
 Single or double shut-off models for greater safety  
 Special range designed for pneumatic applications: 13 Series to 27  
 Special range designed for the transmission of water and fluids: Midi and Maxi series

**Robust & Reliable** | 100% leak-tested in production  
 Excellent shock and impact resistance  
 Nickel-plated brass for corrosion resistance  
 Stainless steel version for restrictive environments

**Optimum Performance** | Very wide range of flow rates  
 "UltraFlo" technology: 18, 22, 23, 25 and 27 series  
 Low pressure drop  
 Long service life  
 Maximum energy efficiency



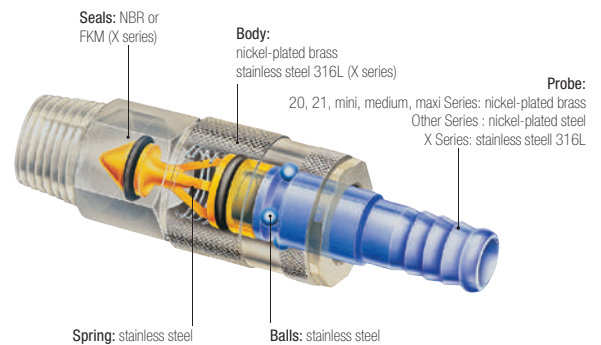
**Applications**  
 Workshops  
 Flushing  
 Spraying  
 Packaging  
 Factory Automation  
 Filling Systems  
 Cleaning

## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air, water (see compatibility chart below)
<b>Working Pressure</b>	0 to 20 bar 0 to 35 bar (stainless steel series)
<b>Working Temperature</b>	-20°C to +100°C -15°C to +200°C (stainless steel series)

Guaranteed for use with a vacuum of 655 mm Hg (86% vacuum).

### Component Materials

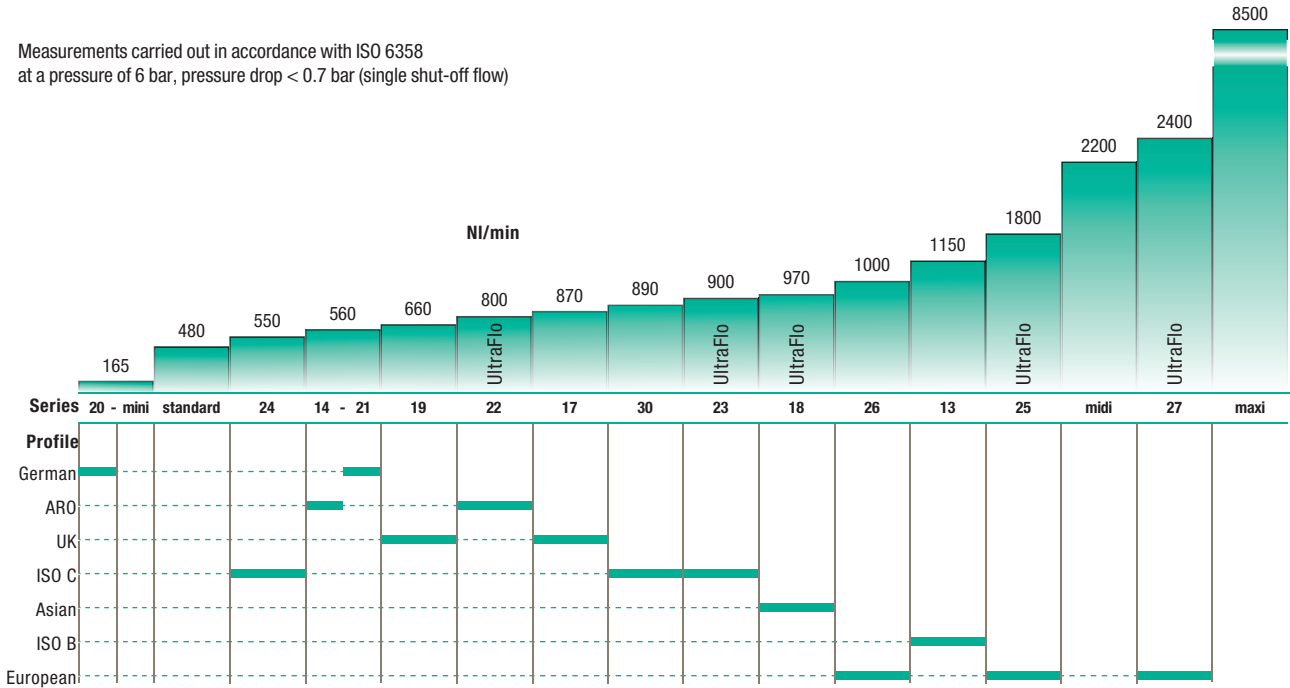


Silicone-free

# Metal Quick-Acting Couplers

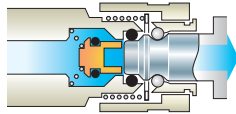
## Metal Quick-Acting Coupler Technology and Flow Rates

Measurements carried out in accordance with ISO 6358  
at a pressure of 6 bar, pressure drop < 0.7 bar (single shut-off flow)



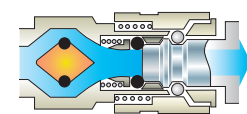
### "Typical" quick-acting coupler

Standard "poppet" technology  
Flow: 1000 NI/min



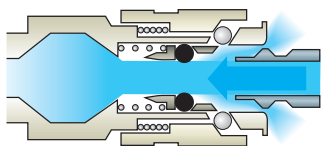
### UltraFlo quick-acting coupler

"Optimal flow" technology  
Flow: 1700 NI/min

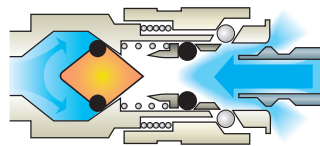
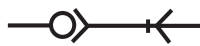


## 3 Shut-Off Functions

### Straight-Through

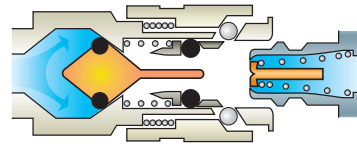
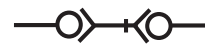


### Single Shut-Off



Single shut-off coupler  
+ probe without shut-off  
When disconnected, the fluid path is closed upstream (body side).

### Double Shut-Off

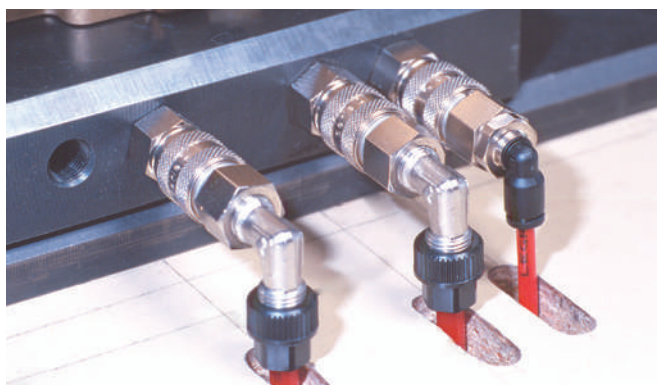


Double shut-off coupler  
+ probe with shut-off  
When disconnected, the fluid path is closed upstream (body side) and downstream (probe side).

## Operation



## Installation Options



# Chemical Compatibility Chart for Metal Couplers

Below are the fluids compatible with Parker Legris metal quick-acting couplers.  
This list is not exhaustive: if your fluid is not shown here, please contact us.

## **A**cetamide

Ammonium chloride  
Ammonium in solution  
Argon  
ASTM no. 1 oil  
ASTM no. 2 oil  
ASTM no. 3 oil

## **B**utyl alcohol

## **C**alcium carbonate

Castor oil  
Coconut oil  
Cod liver oil  
Cold ammonium  
Corn oil  
Cotton seed oil  
Cyclohexane

## **D**etergents

Diesel oil  
Diethylene glycol

## **E**ngine oil

Ethane  
Ethanol  
Ethyl alcohol  
Ethyl silicate  
Ethylene glycol

## **F**uel oil

## **G**ear oil

Glycerin  
Glycerol triacetate  
Glycol  
Groundnut oil

## **H**eating oil (petroleum-based)

Helium

Heptane N

Hexane N

Hexyl alcohol

Hydraulic liquids:

H group  
H-L group  
H-LP group  
HSA group  
HSB group  
HSD c (T) group in accordance with  
DIN 51524 and 51525

## **I**sododecane

Isooctane

## **L**ard

Linseed oil

Methanol

Mineral oil

Neatsfoot oil

## **N**-Heptane

N-Hexane

Nitrogen

N-Pentane

## **O**ctadecane

Olive oil

## **P**entane N

Petroleum

Propyl alcohol

Propylene glycol

## **S**eawater

Silicone grease

Soap solution

Sodium hydroxide

Sodium sulphate

Soya bean oil

Stearyl alcohol

## **T**erebenthine

Trisodium phosphate

## **V**aseline

Vaseline oil

Vegetable oil

## **W**ater

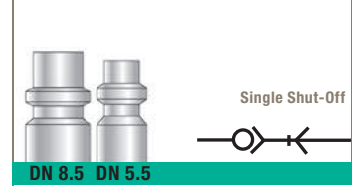
Wood oil

## **Z**inc chloride

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

# ISO B Profile

## 23, 24 and 30 Series



### 9101 Coupler, Male BSPP Thread

	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5.5	G1/4	9101 23 13	9	19	23	57	0.091
				G3/8	9101 23 17	9	19	23	57	0.093
				G1/2	9101 23 21	12	22	23	60	0.132
23 Series (DN 5.5): single shut-off = 900 NI/min										

### 9101 Coupler, Male BSPP Thread

	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5.5	G1/4	9101 24 13	9	22	27	43	0.079
				G3/8	9101 24 17	9	22	27	43	0.082
				G1/2	9101 24 21	12	24	27	46	0.093
			8.5	G1/4	9101 30 13	9	22	29	49	0.097
				G3/8	9101 30 17	9	22	29	49	0.099
	G1/2	9101 30 21	12	22	29	52	0.110			
24 Series (DN 5.5): single shut-off = 550 NI/min 30 Series (DN 8.5): single shut-off = 890 NI/min										

### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5.5	G1/4	9114 23 13	9	19	23	55	0.095
				G3/8	9114 23 17	9	19	23	55	0.087
				G1/2	9114 23 21	12	24	23	57	0.120
23 Series (DN 5.5): single shut-off = 900 NI/min										

### 9114 Coupler, Female BSPP Thread

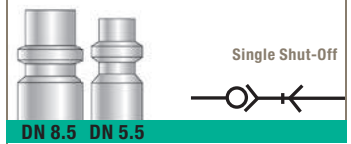
	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5.5	G1/4	9114 24 13	9	22	27	43	0.096
				G3/8	9114 24 17	9	22	27	43	0.091
				G1/2	9114 24 21	12	24	27	46	0.098
			8.5	G1/4	9114 30 13	9	22	29	49	0.113
				G3/8	9114 30 17	9	22	29	49	0.107
	G1/2	9114 30 21	12	24	29	52	0.115			
24 Series (DN 5.5): single shut-off = 550 NI/min 30 Series (DN 8.5): single shut-off = 890 NI/min										

### 9123 Coupler with Barb Connection


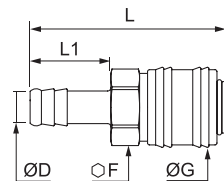

	Nickel-plated brass, NBR 		<b>DN</b>	<b>ØD</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
			5.5	6	9123 23 06	19	23	73	25	0.091
				8	9123 23 08	19	23	73	25	0.092
				10	9123 23 10	19	23	73	25	0.094
23 Series (DN 5.5): single shut-off = 900 NI/min										

# ISO B Profile

## 23, 24 and 30 Series


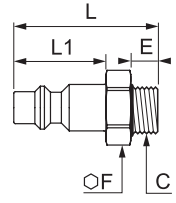



### 9123 Coupler with Barb Connection

	Nickel-plated brass, NBR 		$\overline{\text{DN}}$	$\varnothing D$	<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
			5.5	6	9123 24 06	21	27	60	25	0.081
			5.5	8	9123 24 08	21	27	60	25	0.082
				10	9123 24 10	21	27	60	25	0.082
			8.5	8	9123 30 08	22	30	66	25	0.098
				10	9123 30 10	22	30	66	25	0.098
				13	9123 30 13	22	30	66	25	0.103


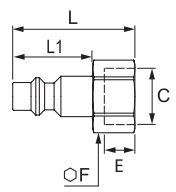

24 Series (DN 5.5): single shut-off = 550 Nl/min  
30 Series (DN 8.5): single shut-off = 890 Nl/min

### 9087 Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer 		$\overline{\text{DN}}$	<b>C</b>	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
			5.5	G1/8	9087 23 10	9	13	39	24	0.017
				G1/4	9087 23 13	9	17	38	24	0.025
				G3/8	9087 23 17	9	19	38	24	0.032
				G1/2	9087 23 21	12	22	42	24	0.048
			8.5	G1/4	9087 30 13	9	17	42	28	0.030
				G3/8	9087 30 17	9	19	42	28	0.036
				G1/2	9087 30 21	12	24	46	28	0.058


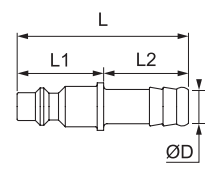

Probe without shut-off  
23 Series probe (DN 5.5) compatible with 24 Series coupler (DN 5.5)

### 9086 Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 		$\overline{\text{DN}}$	<b>C</b>	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
			5.5	G1/8	9086 23 10	9	17	36	24	0.021
				G1/4	9086 23 13	9	17	36	24	0.025
				G3/8	9086 23 17	9	19	36	24	0.025
				G1/2	9086 23 21	12	24	39	24	0.039
			8.5	G1/4	9086 30 13	10	17	40	28	0.032
				G3/8	9086 30 17	10	19	42	28	0.035
				G1/2	9086 30 21	12	24	43	28	0.046


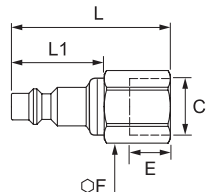

Probe without shut-off  
23 Series probe (DN 5.5) compatible with 24 Series coupler (DN 5.5)

### 9085 Probe, Straight-Through, with Barb Connection

	Nickel-plated steel 		$\overline{\text{DN}}$	$\varnothing D$	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>	
			5.5	6	9085 23 06	51	24	25	0.016
				8	9085 23 08	51	27	25	0.017
				10	9085 23 10	51	24	25	0.018
			8.5	8	9085 30 08	55	28	25	0.027
				10	9085 30 10	55	28	25	0.028
				13	9085 30 13	55	28	25	0.031

Probe without shut-off  
23 Series probe (DN 5.5) compatible with 24 Series coupler (DN 5.5)

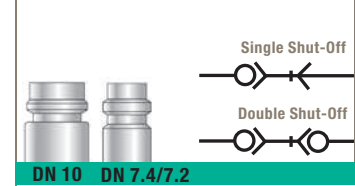
### 9293 Probe, Valved, Anti-Whiplash, Female BSPP Thread

	Nickel-plated steel, NBR 		$\overline{\text{DN}}$	<b>C</b>	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			5.5	G1/4	9293 23 13	10	22	47	24

Probe with shut-off

# European Profile

## 25, 26 and 27 Series



### 9101 Coupler, Male BSPP Thread

	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			7.2	G1/8	9101 26 10	9	22	27	43	0.073
				G1/4	9101 26 13	9	22	27	43	0.073
				G3/8	9101 26 17	9	22	27	13	0.075
				G1/2	9101 26 21	12	22	27	46	0.087
26 Series (DN 7.2): single shut-off = 1000 NL/min										

### 9201 Coupler, Male BSPP Thread

	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			7.4	G1/4	9201 25 13	9	19	23	57	0.095
				G3/8	9201 25 17	9	19	23	57	0.097
				G1/2	9201 25 21	12	22	23	60	0.135
			10	G3/8	9201 27 17	9	24	27	65	0.160
				G1/2	9201 27 21	12	24	27	70	0.166
G3/4	9201 27 27	16		27	27	74	0.239			
25 Series (DN 7.4): single shut-off = 1800 NL/min / 25 Series (DN 7.4): double shut-off = 710 NL/min 27 Series (DN 10): single shut-off = 2400 NL/min / 27 Series (DN 7.4): double shut-off = 900 NL/min										

### 9214 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			7.4	G1/4	9214 25 13	9	19	23	55	0.098
				G3/8	9214 25 17	9	19	23	55	0.092
				G1/2	9214 25 21	12	24	23	57	0.124
			10	G3/8	9214 27 17	12	24	27	68	0.177
				G1/2	9214 27 21	12	24	27	68	0.166
G3/4	9214 27 27	16		32	27	74	0.255			
25 Series (DN 7.4): single shut-off = 1800 NL/min / 25 Series (DN 7.4): double shut-off = 710 NL/min 27 Series (DN 10): single shut-off = 2400 NL/min / 27 Series (DN 7.4): double shut-off = 900 NL/min										

### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR 		<b>DN</b>	<b>C</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			7.2	G1/4	9114 26 13	9	22	27	43	0.089
				G3/8	9114 26 17	9	22	27	43	0.084
				G1/2	9114 26 21	12	24	27	46	0.090
26 Series (DN 7.2): single shut-off = 1000 NL/min										

### 9223 Coupler with Barb Connection

	Nickel-plated brass, NBR 		<b>DN</b>	<b>ØD</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
			7.4	6	9223 25 06	19	23	73	25	0.095
				8	9223 25 08	19	23	73	25	0.097
				10	9223 25 10	19	23	73	25	0.097
				13	9223 25 13	19	23	73	25	0.099
			10	8	9223 27 08	24	27	80	21	0.146
				10	9223 27 10	24	27	80	21	0.162
				13	9223 27 13	24	27	80	21	0.164
				19	9223 27 19	24	27	80	21	0.168
				25 Series (DN 7.4): single shut-off = 1800 NL/min / 25 Series (DN 7.4): double shut-off = 710 NL/min 27 Series (DN 10): single shut-off = 2400 NL/min / 27 Series (DN 7.4): double shut-off = 900 NL/min						

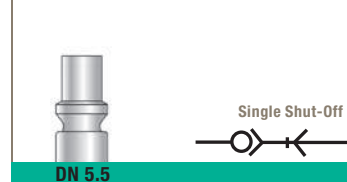








# ARO Profile

## 14 and 22 Series





### 9101 Coupler, Male BSPP Thread

	Nickel-plated brass, NBR			<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
	$\overline{\text{DN}}$	<b>C</b>						
	G1/4	<b>9101 14 13</b>						
	G3/8	<b>9101 14 17</b>						
5.5	G1/2	<b>9101 14 21</b>	9	22	27	43	0.080	
			9	22	27	43	0.081	
			12	24	27	46	0.093	



14 Series (DN 5.5): single shut-off = 560 NI/min

### 9105 Coupler, Male BSPT Thread

	Nickel-plated brass, NBR			<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
	$\overline{\text{DN}}$	<b>C</b>					
	R1/4	<b>9105 22 13</b>					
	R3/8	<b>9105 22 17</b>					
5.5	R1/2	<b>9105 22 21</b>	19	23	61	0.098	
			12	19	60	0.096	
			22	23	61	0.114	



22 Series (DN 5.5): single shut-off = 800 NI/min

### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR			<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
	$\overline{\text{DN}}$	<b>C</b>						
	G1/4	<b>9114 14 13</b>						
	G3/8	<b>9114 14 17</b>						
5.5	G1/2	<b>9114 14 21</b>	9	22	27	43	0.095	
			9	22	27	43	0.091	
			12	24	27	46	0.098	



14 Series (DN 5.5): single shut-off = 560 NI/min

### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR			<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
	$\overline{\text{DN}}$	<b>C</b>						
	G1/4	<b>9114 22 13</b>						
	G3/8	<b>9114 22 17</b>						
5.5	G1/2	<b>9114 22 21</b>	9	19	23	56	0.098	
			9	19	23	55	0.091	
			12	24	23	58	0.123	

22 Series (DN 5.5): single shut-off = 800 NI/min

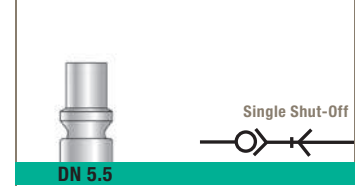
### 9123 Coupler with Barb Connection

	Nickel-plated brass, NBR			<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
	$\overline{\text{DN}}$	$\varnothing$ D							
	6	<b>9123 14 06</b>							
	8	<b>9123 14 08</b>							
	5.5	9							<b>9123 14 09</b>
		10							<b>9123 14 10</b>
	13	<b>9123 14 13</b>							
			21	27	60	25	0.080		
			21	27	60	25	0.081		
			21	27	60	25	0.082		
			21	27	60	25	0.082		
			21	27	60	25	0.094		


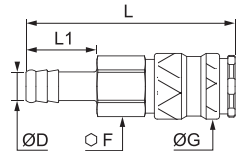

14 Series (DN 5.5): single shut-off = 560 NI/min

# ARO Profile

## 14 and 22 Series


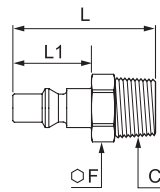



### 9123 Coupler with Barb Connection

	Nickel-plated brass, NBR 	(DN) <b>ØD</b> 	<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		6 <a href="#">9123 22 06</a>	19	23	74	25	0.093
		5.5 8 <a href="#">9123 22 08</a>	19	23	74	25	0.097
		10 <a href="#">9123 22 10</a>	19	23	74	25	0.098


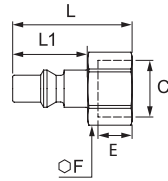

22 Series (DN 5.5): single shut-off = 800 NI/min

### 9084 Probe, Straight-Through, Male BSPT Thread

	Nickel-plated steel 	(DN) <b>C</b> 	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		R1/4 <a href="#">9084 22 13</a>	14	40.5	22	0.020
		5.5 R3/8 <a href="#">9084 22 17</a>	17	40.5	22	0.031
		R1/2 <a href="#">9084 22 21</a>	22	46	22	0.048


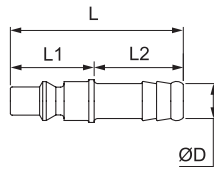

Probe without shut-off  
22 Series probe (DN 5.5) compatible with 14 Series coupler (DN 5.5)

### 9086 Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		G1/4 <a href="#">9086 22 13</a>	9	17	35.5	22	0.024
		5.5 G3/8 <a href="#">9086 22 17</a>	10	19	35.5	22	0.023
		G1/2 <a href="#">9086 22 21</a>	12	24	38	22	0.039

Probe without shut-off  
22 Series probe (DN 5.5) compatible with 14 Series coupler (DN 5.5)

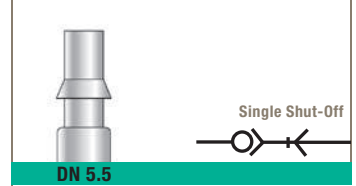
### 9085 Probe, Straight-Through, with Barb Connection

	Nickel-plated steel 	(DN) <b>ØD</b> 	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		6 <a href="#">9085 22 06</a>	48.5	22	25	0.012
		8 <a href="#">9085 22 08</a>	48.5	22	25	0.014
		5.5 9 <a href="#">9085 22 09</a>	48.5	22	25	0.014
		10 <a href="#">9085 22 10</a>	48.5	22	25	0.016
		13 <a href="#">9085 22 13</a>	48.5	22	25	0.022



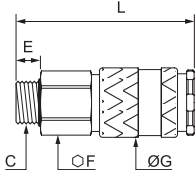
Probe without shut-off  
22 Series probe (DN 5.5) compatible with 14 Series coupler (DN 5.5)

# ISO C Profile



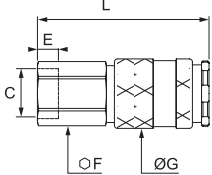
## 18 Series





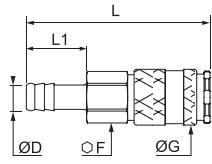
### 9101 Coupler, Male BSPP Thread

	Nickel-plated brass, NBR			<b>E</b> <b>F</b> <b>G</b> <b>L</b> <b>kg</b>		
		<b>DN</b> <b>C</b>			<b>5.5</b> G1/4 <b>9101 18 13</b>	9   19   23   60   0.106
		<b>G3/8</b> <b>9101 18 17</b>			9   19   23   60   0.108	
18 Series (DN 5.5) : single shut-off = 970 NI/min						



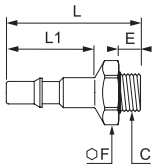
### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR			<b>E</b> <b>F</b> <b>G</b> <b>L</b> <b>kg</b>		
		<b>DN</b> <b>C</b>			<b>5.5</b> G1/4 <b>9114 18 13</b>	9   19   23   58   0.109
		<b>G3/8</b> <b>9114 18 17</b>			9   19   23   58   0.101	
18 Series (DN 5.5) : single shut-off = 970 NI/min						



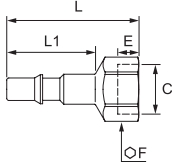
### 9123 Coupler with Barb Connection

	Nickel-plated brass, NBR			<b>F</b> <b>G</b> <b>L</b> <b>L1</b> <b>kg</b>		
		<b>DN</b> <b>ØD</b>			<b>5.5</b> 6 <b>9123 18 06</b>	19   23   76   25   0.104
		<b>8</b> <b>9123 18 08</b>			19   23   76   25   0.106	
18 Series (DN 5.5) : single shut-off = 970 NI/min						



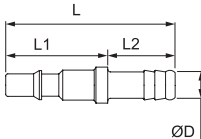
### 9087 Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel			<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
		<b>DN</b> <b>C</b>			<b>5.5</b> G1/4 <b>9087 18 13</b>	9   17   41   28   0.025
		<b>G3/8</b> <b>9087 18 17</b>			9   19   41   28   0.028	
Probe without shut-off						

### 9086 Probe, Straight-Through, Female BSPP Thread

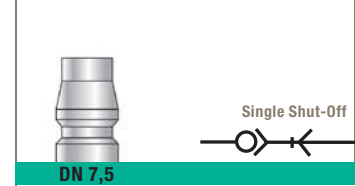
	Nickel-plated steel			<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
		<b>DN</b> <b>C</b>			<b>5.5</b> G1/4 <b>9086 18 13</b>	9   17   40   28   0.022
		<b>G3/8</b> <b>9086 18 17</b>			9   19   41   28   0.024	
Probe without shut-off						

### 9085 Probe, Straight-Through, with Barb Connection

	Nickel-plated steel			<b>L</b> <b>L1</b> <b>L2</b> <b>kg</b>		
		<b>DN</b> <b>ØD</b>			<b>5.5</b> 6 <b>9085 18 06</b>	56   28   25   0.016
		<b>8</b> <b>9085 18 08</b>			56   28   25   0.016	
Probe without shut-off						

# Asian Profile

## 13 Series



### 9105 Coupler, Male BSPT Thread

	Nickel-plated brass, NBR		$\text{DN}$	<b>C</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
				R1/4	<a href="#">9105 13 13</a>	22	27	49	0.086
			7.5	R3/8	<a href="#">9105 13 17</a>	22	27	49	0.090
				R1/2	<a href="#">9105 13 21</a>	22	27	53	0.110
13 Series (DN 7.5): single shut-off = 1150 NL/min									

### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR		$\text{DN}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
				G1/4	<a href="#">9114 13 13</a>	9	22	27	45	0.099
			7.5	G3/8	<a href="#">9114 13 17</a>	9	22	27	45	0.093
				G1/2	<a href="#">9114 13 21</a>	12	24	27	48	0.102
13 Series (DN 7.5): single shut-off = 1150 NL/min										

### 9123 Coupler with Barb Connection

	Nickel-plated brass, NBR		$\text{DN}$	<b>ØD</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
				8	<a href="#">9123 13 08</a>	21	27	62	25	0.084
			7.5	10	<a href="#">9123 13 10</a>	21	27	62	25	0.086
				13	<a href="#">9123 13 13</a>	21	27	62	25	0.089
13 Series (DN 7.5): single shut-off = 1150 NL/min										

### 9084 Probe, Straight-Through, Male BSPT Thread

	Nickel-plated steel		$\text{DN}$	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
				R1/4	<a href="#">9084 13 13</a>	14	37	12	0.022
			7.5	R3/8	<a href="#">9084 13 17</a>	17	37	12	0.028
				R1/2	<a href="#">9084 13 21</a>	22	44	17	0.050
Probe without shut-off									

### 9086 Probe, Straight-Through, Female BSPP Thread

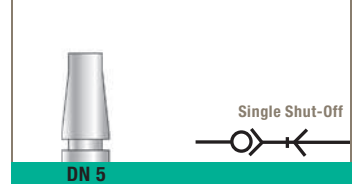
	Nickel-plated steel		$\text{DN}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
				G1/4	<a href="#">9086 13 13</a>	9	17	22	12	0.026
			7.5	G3/8	<a href="#">9086 13 17</a>	9	19	33	12	0.024
				G1/2	<a href="#">9086 13 21</a>	12	24	36	17	0.036
Probe without shut-off										

### 9085 Probe, Straight-Through, with Barb Connection

	Nickel-plated steel		$\text{DN}$	<b>ØD</b>		<b>L</b>	<b>L1</b>	<b>kg</b>
				8	<a href="#">9085 13 08</a>	48	25	0.020
			7.5	10	<a href="#">9085 13 10</a>	48	25	0.021
				13	<a href="#">9085 13 13</a>	48	25	0.026
Probe without shut-off								

# UK Profile

## 17 Series



### 9105 Coupler, Male BSPT Thread

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>C</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
				R1/4	<a href="#">9105 17 13</a>	19	23	63	0.109
			5	R3/8	<a href="#">9105 17 17</a>	19	23	62	0.108
				R1/2	<a href="#">9105 17 21</a>	22	23	63	0.124
17 Series (DN 5) : Single shut-off = 870 NI/min									

### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
				G1/4	<a href="#">9114 17 13</a>	9	19	23	58	0.110
			5	G3/8	<a href="#">9114 17 17</a>	9	19	23	57	0.103
				G1/2	<a href="#">9114 17 21</a>	12	24	23	60	0.135
17 Series (DN 5) : Single shut-off = 870 NI/min										

### 9123 Coupler with Barb Connection

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>ØD</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
				6	<a href="#">9123 17 06</a>	19	23	76	25	0.106
			5	8	<a href="#">9123 17 08</a>	19	23	76	25	0.108
				10	<a href="#">9123 17 10</a>	19	23	76	25	0.111
17 Series (DN 5): single shut-off = 870 NI/min										

### 9084 Probe, Straight-Through, Male BSPT Thread

	Nickel-plated steel		$\overline{\text{DN}}$	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
				R1/8	<a href="#">9084 17 10</a>	11	37	9	0.016
			5	R1/4	<a href="#">9084 17 13</a>	14	42	12	0.021
				R3/8	<a href="#">9084 17 17</a>	17	42	12	0.014
				R1/2	<a href="#">9084 17 21</a>	22	48	17	0.048
Probe without shut-off									

### 9086 Probe, Straight-Through, Female BSPP Thread

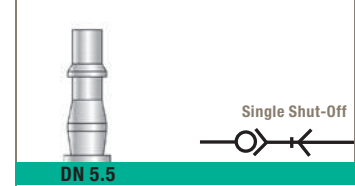
	Nickel-plated steel		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
				G1/8	<a href="#">9086 17 10</a>	7	14	33	0.016
			5	G1/4	<a href="#">9086 17 13</a>	9	17	33	0.022
				G3/8	<a href="#">9086 17 17</a>	9	19	33	0.023
				G1/2	<a href="#">9086 17 21</a>	12	24	36	0.030
Probe without shut-off									

### 9085 Probe, Straight-Through, with Barb Connection

	Nickel-plated steel		$\overline{\text{DN}}$	<b>ØD</b>		<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
				6	<a href="#">9085 17 06</a>	58	25	33	0.015
			5	8	<a href="#">9085 17 08</a>	52	25	27	0.016
				10	<a href="#">9085 17 10</a>	52	25	27	0.018
Probe without shut-off									

# UK Profile

## 19 Series



### 9105 Coupler, Male BSPT Thread

	Nickel-plated brass, NBR 	(DN) <b>C</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>		
		5.5		R1/4	<a href="#">9105 19 13</a>	19	23	63	0.100
				R3/8	<a href="#">9105 19 17</a>	19	23	62	0.099
				R1/2	<a href="#">9105 19 21</a>	22	23	68	0.117
19 Series (DN 5.5): single shut-off = 660 NI/min									

### 9114 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR 	(DN) <b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>		
		5.5		G1/4	<a href="#">9114 19 13</a>	9	19	23	58	0.102
				G3/8	<a href="#">9114 19 17</a>	9	19	23	58	0.095
				G1/2	<a href="#">9114 19 21</a>	12	24	23	60	0.127
19 Series (DN 5.5): single shut-off = 660 NI/min										

### 9123 Coupler with Barb Connection

	Nickel-plated brass, NBR 	(DN) <b>ØD</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
		5.5		6	<a href="#">9123 19 06</a>	19	23	76	25	0.097
				8	<a href="#">9123 19 08</a>	19	23	76	25	0.099
				10	<a href="#">9123 19 10</a>	24	23	76	25	0.100
19 Series (DN 5.5): single shut-off = 660 NI/min										

### 9084 Probe, Straight-Through, Male BSPT Thread

	Nickel-plated steel 	(DN) <b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
		5.5		R1/4	<a href="#">9084 19 13</a>	14	50	12	0.022
				R3/8	<a href="#">9084 19 17</a>	17	50	12	0.026
				R1/2	<a href="#">9084 19 21</a>	22	56	17	0.051
Probe without shut-off									

### 9086 Probe, Straight-Through, Female BSPP Thread

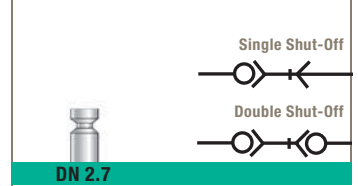
	Nickel-plated steel 	(DN) <b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>		
		5.5		G1/4	<a href="#">9086 19 13</a>	9	17	46	0.025
				G3/8	<a href="#">9086 19 17</a>	9	19	47	0.026
				G1/2	<a href="#">9086 19 21</a>	12	24	50	0.039
Probe without shut-off									

### 9085 Probe, Straight-Through, with Barb Connection


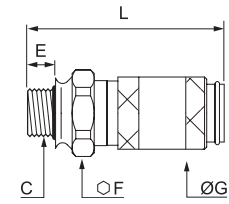

	Nickel-plated steel 	(DN) <b>ØD</b>		<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>		
		5.5		6	<a href="#">9085 19 06</a>	60	25	35	0.016
				8	<a href="#">9085 19 08</a>	60	25	35	0.017
				10	<a href="#">9085 19 10</a>	60	25	35	0.019
Probe without shut-off									

# German Profile


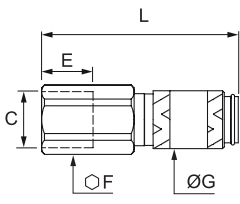

## 20 Series




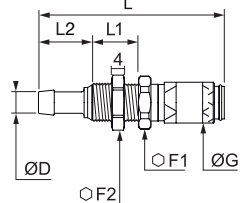

### 9201 Coupler, Male BSPP and Metric Thread

	Nickel-plated brass, NBR 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>		
			2.7	M5x0.8	<a href="#">9201 20 19</a>	5	9	10	26
			G1/8	<a href="#">9201 20 10</a>	7	11	10	28	0.012
20 Series (DN 2.7): single shut-off = 165 NI/min 20 Series (DN 2.7): double shut-off = 130 NI/min									


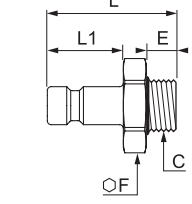

### 9214 Coupler, Female BSPP and Metric Thread

	Nickel-plated brass, NBR 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>		
			2.7	M5x0.8	<a href="#">9214 20 19</a>	5	9	10	25
			G1/8	<a href="#">9214 20 10</a>	7	12	10	28	0.013
20 Series (DN 2.7): single shut-off = 165 NI/min 20 Series (DN 2.7): double shut-off = 130 NI/min									


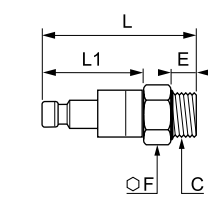

### 9226 Coupler, Bulkhead Mountable, with Barb Connection

	Nickel-plated brass, NBR 	(DN) <b>ØD</b> 	<b>F1</b>	<b>F2</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>		
			2.7	3	<a href="#">9226 20 03</a>	12	11	10	51	17	13
			4	<a href="#">9226 20 04</a>	12	11	10	51	17	13	0.016
20 Series (DN 2.7): single shut-off = 165 NI/min 20 Series (DN 2.7): double shut-off = 130 NI/min											

### 9087 Probe, Straight-Through, Male BSPP and Metric Thread

	Nickel-plated brass 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
			2.7	M5x0.8	<a href="#">9087 20 19</a>	5	7	18	10
			G1/8	<a href="#">9087 20 10</a>	7	11	18	10	0.005
Probe without shut-off									

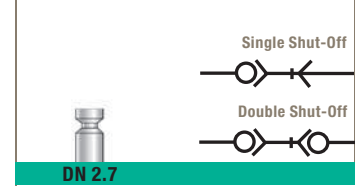
### 9287 Probe, Valved, Male BSPP and Metric Thread

	Nickel-plated brass, NBR 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
			2.7	M5x0.8	<a href="#">9287 20 19</a>	5	7	28	10
			G1/8	<a href="#">9287 20 10</a>	7	11	30	10	0.009
Probe with shut-off									



# German Profile

## 20 Series



### 9086 Probe, Straight-Through, Female BSPP and Metric Thread

	Nickel-plated brass		<b>C</b>	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
			2.7	M5x0.8	<a href="#">9086 20 19</a>	5	7	17	10	0.003
				G1/8	<a href="#">9086 20 10</a>	7	12	19	10	0.006
Probe without shut-off										

### 9286 Probe, Valved, Female BSPP and Metric Thread

	Nickel-plated brass, NBR		<b>C</b>	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
			2.7	M5x0.8	<a href="#">9286 20 19</a>	5	7	27	10	0.007
				G1/8	<a href="#">9286 20 10</a>	7	12	30	10	0.010
Probe with shut-off										

### 9085 Probe, Straight-Through, with Barb Connection

	Nickel-plated brass		<b>ØD</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>		
				3	<a href="#">9085 20 03</a>	24	10	13	0.002
			2.7	4	<a href="#">9085 20 04</a>	24	10	13	0.002
				5	<a href="#">9085 20 05</a>	24	9	13	0.003
Probe without shut-off									

### 9285 Probe, Valved, with Barb Connection

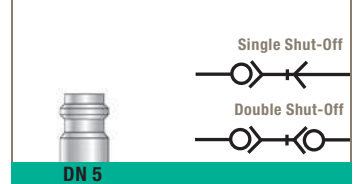
	Nickel-plated brass, NBR		<b>ØD</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>		
				3	<a href="#">9285 20 03</a>	37	10	13	0.007
			2.7	4	<a href="#">9285 20 04</a>	37	10	13	0.007
				5	<a href="#">9285 20 05</a>	37	10	13	0.007
Probe with shut-off									

### 9095 Probe, Straight-Through, Bulkhead Mountable, with Barb Connection


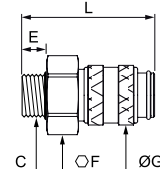

	Nickel-plated brass		<b>ØD</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>kg</b>		
			2.7	3	<a href="#">9095 20 03</a>	11	44	10	17	13	0.012
				4	<a href="#">9095 20 04</a>	11	44	10	17	13	0.012
			Probe without shut-off								

# German Profile

## 21 Series


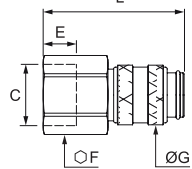



### 9201 Coupler, Male BSPP Thread

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
			5	G1/8	<a href="#">9201 21 10</a>	7	14	16	36	0.027
				G1/4	<a href="#">9201 21 13</a>	9	17	16	38	0.036


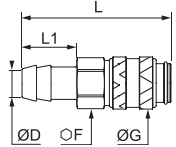

21 Series (DN 5): single shut-off = 560 Nl/min  
21 Series (DN 5): double shut-off = 310 Nl/min

### 9214 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
			5	G1/8	<a href="#">9214 21 10</a>	9	14	16	36	0.030
				G1/4	<a href="#">9214 21 13</a>	7	17	16	38	0.040


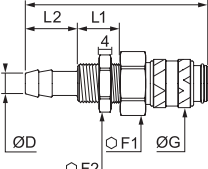

21 Series (DN 5): single shut-off = 560 Nl/min  
21 Series (DN 5): double shut-off = 310 Nl/min

### 9223 Coupler with Barb Connection

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>ØD</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			5	4	<a href="#">9223 21 04</a>	14	16	46	17	0.027
				6	<a href="#">9223 21 06</a>	14	16	46	17	0.027
				8	<a href="#">9223 21 08</a>	14	16	46	17	0.028


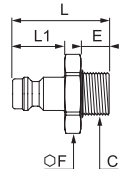

21 Series (DN 5): single shut-off = 560 Nl/min  
21 Series (DN 5): double shut-off = 310 Nl/min

### 9226 Coupler, Bulkhead Mountable, with Barb Connection

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>ØD</b>		<b>F1</b>	<b>F2</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
			5	4	<a href="#">9226 21 04</a>	14	14	16	60	14	17	0.034
				6	<a href="#">9226 21 06</a>	17	17	16	60	14	17	0.048
				8	<a href="#">9226 21 08</a>	17	17	16	60	14	17	0.047


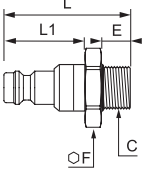

21 Series (DN 5): single shut-off = 560 Nl/min  
21 Series (DN 5): double shut-off = 310 Nl/min

### 9087 Probe, Straight-Through, Male BSPP Thread

	Nickel-plated brass		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			5	G1/8	<a href="#">9087 21 10</a>	7	14	25	14	0.012
				G1/4	<a href="#">9087 21 13</a>	9	17	28	14	0.019

Probe without shut-off

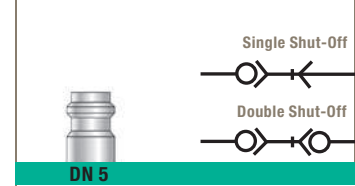
### 9287 Probe, Valved, Male BSPP Thread

	Nickel-plated brass, NBR		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			5	G1/8	<a href="#">9287 21 10</a>	7	14	40	14	0.023
				G1/4	<a href="#">9287 21 13</a>	9	17	42	14	0.031

Probe with shut-off

# German Profile

## 21 Series



### 9086 Probe, Straight-Through, Female BSPP Thread

	Nickel-plated brass		$\text{DN}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			5	G1/8	<a href="#">9086 21 10</a>	8	14	25	14	0.014
				G1/4	<a href="#">9086 21 13</a>	9	17	26	14	0.018
Probe without shut-off										

### 9286 Probe, Valved, Female BSPP Thread

	Nickel-plated brass, NBR		$\text{DN}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			5	G1/8	<a href="#">9286 21 10</a>	8	14	40	14	0.025
				G1/4	<a href="#">9286 21 13</a>	9	17	42	14	0.035
Probe with shut-off										

### 9085 Probe, Straight-Through, with Barb Connection

	Nickel-plated brass		$\text{DN}$	$\text{OD}$		<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
			5	4	<a href="#">9085 21 04</a>	32	14	17	0.006
				6	<a href="#">9085 21 06</a>	32	14	17	0.008
				8	<a href="#">9085 21 08</a>	32	14	17	0.009
Probe without shut-off									

### 9285 Probe, Valved, with Barb Connection

	Nickel-plated brass, NBR		$\text{DN}$	$\text{OD}$		<b>F</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
			5	4	<a href="#">9285 21 04</a>	14	50	14	17	0.022
				6	<a href="#">9285 21 06</a>	14	50	14	17	0.023
				8	<a href="#">9285 21 08</a>	14	50	14	17	0.024
Probe with shut-off										

### 9095 Probe, Straight-Through, Bulkhead Mountable with Barb Connection

	Nickel-plated brass		$\text{DN}$	$\text{OD}$		<b>F1</b>	<b>F2</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>kg</b>
			5	4	<a href="#">9095 21 04</a>	14	14	50	14	14	17	0.019
				6	<a href="#">9095 21 06</a>	14	17	50	14	14	17	0.027
				8	<a href="#">9095 21 08</a>	14	17	50	14	14	17	0.028
Probe without shut-off												

# Mini Series

Single Shut-Off



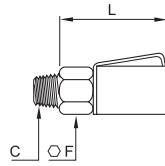
Double Shut-Off



## 0171 Coupler, Male BSPT and Parallel Metric Thread



Technical polymer, nickel-plated brass, NBR



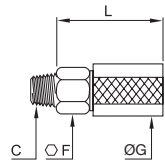
DN	C	Colour	F	L	kg	
2	M7x1	0171 02 55 01		10	21	0.007
	R1/8	0171 02 10 01		10	21	0.010
	R1/8	0171 02 10 02		10	21	0.010
	R1/8	0171 02 10 03		10	21	0.010
	R1/8	0171 02 10 04		10	21	0.010
	R1/8	0171 02 10 05		10	21	0.010

Single shut-off  
Mini Series (DN 2): single shut-off = 165 NL/min

## 0171 Coupler, Straight-Through, Male BSPT Thread



Technical polymer, nickel-plated brass, NBR



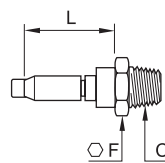
DN	C	Colour	F	G	L	kg	
3	R1/8	0171 03 10 01		13	17	24.5	0.020
	R1/8	0171 03 10 02		13	17	24.5	0.020
	R1/8	0171 03 10 03		13	17	24.5	0.020
	R1/8	0171 03 10 04		13	17	24.5	0.020
	R1/8	0171 03 10 05		13	17	24.5	0.020

Straight-through

## 0183 Probe, Valved, Male BSPT Thread



Nickel-plated brass, NBR



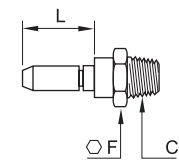
DN	C	F	L	kg	
2	R1/8	0183 02 10	10	13	0.007

Probe with shut-off

## 0184 Probe, Straight-Through, Male BSPT Thread



Nickel-plated brass



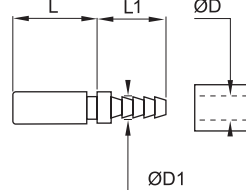
DN	C	F	L	kg	
2	R1/8	0184 02 10	10	13	0.006

Probe without shut-off

## 0181 Probe without Shut-off, Male BSPT Thread



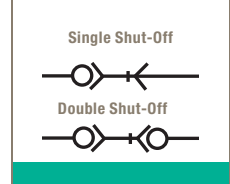
Nickel-plated brass



DN	ØD	ØD1	L	L1	kg
2	3	3.3	11.5	13.5	0.010

Probe without shut-off

# Mini Series



## 0181 Probe, Straight-Through with Barb Connection for Polyamide (PA) Tubing

	Nickel-plated brass		<b>ØD</b> <b>ØD1</b>	<b>L</b>	<b>kg</b>
			3 4 4.7 <b>0181 04 06</b>	19	0.005
Probe without shut-off					

## 0180 Probe, Straight-Through with Barb Connection for Flexible Tubing

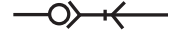
	Nickel-plated brass		<b>ØD</b> <b>ØD1</b>	<b>L</b>	<b>kg</b>
			3 4 6 <b>0180 04 00</b>	19	0.007
Probe without shut-off					
3 5 6.5 <b>0180 05 00</b>					

## 3150 Probe, Straight-Through with LF 3000® Push-In Connection


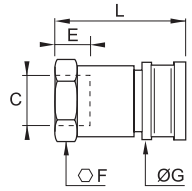


	Nickel-plated brass, NBR		<b>ØD</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			3 4 <b>3150 00 61</b>	8.5	39	18	0.008
Probe without shut-off							

# Standard Series


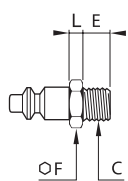


Single Shut-Off




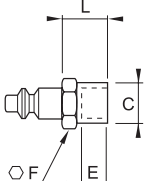


## 0172 Coupler, Female BSPP Thread

	Nickel-plated brass, NBR 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>	
			5	G1/4	<b>0172 05 13</b>	11	19	21
Standard series: single shut-off = 480 NI/min								


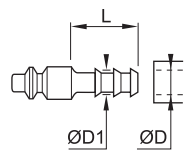


## 0187 Probe, Straight-Through, Male BSPP Thread

	Zinc-plated steel 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>					
			5	G1/8	<b>0187 05 10</b>	7	14	4	0.018		
Probe without shut-off							5	9.5	17	5	0.027


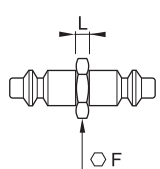


## 0186 Probe, Straight-Through, Female BSPP Thread

	Zinc-plated steel 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>	
			5	G1/4	<b>0186 05 13</b>	12	17
Probe without shut-off							

## 0185 Probe, Straight-Through, with Barb Connection for Flexible Tubing

	Zinc-plated steel 	 <b>ØD</b> <b>ØD1</b> 			<b>L</b>	<b>kg</b>		
			4	6	<b>0185 04 00</b>	22.5	0.014	
			5	7	9	<b>0185 07 00</b>	22.5	0.017
				10	12.2	<b>0185 10 00</b>	22.5	0.014
Probe without shut-off								

## 0189 Double Probe

	Zinc-plated steel 	 	<b>F</b>	<b>L</b>	<b>kg</b>
			5	<b>0189 05 00</b>	12
Probe without shut-off					

# Midi Series

Without Shut-Off



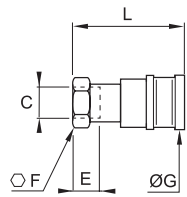
Single Shut-Off



## 0172 Coupler, Female BSPP Thread



Nickel-plated brass, NBR



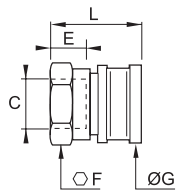
DN	C		E	F	G	L	kg
12	G3/8	<a href="#">0172 12 17</a>	16	27	29	56	0.155
	G1/2	<a href="#">0172 12 21</a>	16	27	29	56	0.142

Midi series: single shut-off = 2200 NI/min

## 2272 Coupler, Straight-Through, Female BSPP Thread



Nickel-plated brass, NBR

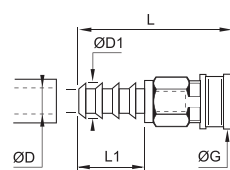


DN	C		E	F	G	L	kg
12	G1/2	<a href="#">2272 12 21</a>	10	24	29	33	0.072
	G3/4	<a href="#">2272 12 27</a>	10	30	29	34.5	0.074
	G1	<a href="#">2272 12 34</a>	10	36	29	34.5	0.087

## 2511 Coupler with Barb Connection for Hose



Nickel-plated brass, NBR



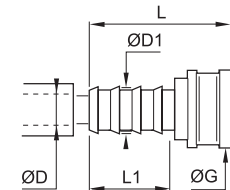
DN	ØD	ØD1		G	L	L1	kg
12	12	13.5	<a href="#">2511 12 12</a>	29	75	32	0.146
	15	16.5	<a href="#">2511 12 15</a>	29	75	32	0.147
	19	20.5	<a href="#">2511 12 19</a>	29	81	38	0.159

Midi series: single shut-off = 2200 NI/min

## 2297 Coupler, Straight-Through, with Barb Connection for Hose



Nickel-plated brass, NBR

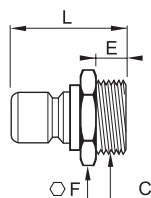


DN	ØD	ØD1		G	L	L1	kg
12	12	13.5	<a href="#">2297 12 12</a>	29	51	27	0.073
	15	16.5	<a href="#">2297 12 15</a>	29	51	27	0.076
	19	20.5	<a href="#">2297 12 19</a>	29	57	33	0.090

## 2294 Probe, Straight-Through, Male BSPP Thread



Nickel-plated brass



DN	C		E	F	L	kg
12	G3/8	<a href="#">2294 12 17</a>	6	22	31.5	0.031
	G1/2	<a href="#">2294 12 21</a>	9.5	22	37	0.044
	G3/4	<a href="#">2294 12 27</a>	13.5	27	41	0.068
	G1	<a href="#">2294 12 34</a>	10.5	34	36	0.072

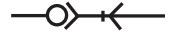
Probe without shut-off

# Midi Series

Without Shut-Off



Single Shut-Off



## 0196 Probe, Straight-Through, Female BSPP Thread

	Nickel-plated brass		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
			12	G1/4	<a href="#">0196 12 13</a>	12	17	16	0.027
				G3/8	<a href="#">0196 12 17</a>	12	21	15	0.034
				G1/2	<a href="#">0196 12 21</a>	14	26	17	0.050
Probe without shut-off									

## 2296 Probe, Straight-Through, Female BSPP Thread

	Nickel-plated brass		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>G</b>	<b>L</b>	<b>kg</b>
			12	G1/2	<a href="#">2296 12 21</a>	11	24	31.5	0.031
				G3/4	<a href="#">2296 12 27</a>	11	30	38	0.058
				G1	<a href="#">2296 12 34</a>	11	36	36.5	0.058
Probe without shut-off									

## 0195 Probe, Straight-Through, with Barb Connection for Flexible Tubing

	Nickel-plated brass		$\overline{\text{DN}}$	<b>ØD</b>	<b>ØD1</b>		<b>F</b>	<b>L</b>	<b>kg</b>
			12	7	9	<a href="#">0195 07 00</a>	17	29.5	0.026
				10	12.2	<a href="#">0195 10 00</a>	17	29.5	0.028
				13	15.2	<a href="#">0195 13 00</a>	17	29.5	0.030
				16	18.5	<a href="#">0195 16 00</a>	21	36.5	0.048
Probe without shut-off									

## 2295 Probe, Straight-Through, with Barb Connection for Flexible Hose

	Nickel-plated brass		$\overline{\text{DN}}$	<b>ØD</b>	<b>ØD1</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			12	12	13.5	<a href="#">2295 12 12</a>	17	48	27	0.026
				15	16.5	<a href="#">2295 12 15</a>	18	48	27	0.034
				19	20.5	<a href="#">2295 12 19</a>	24	57	33	0.053
Probe without shut-off										

## 2293 Y Coupler, Straight-Through

	Nickel-plated brass, NBR		$\overline{\text{DN}}$		<b>G</b>	<b>H</b>	<b>kg</b>
			12	<a href="#">2293 12 00</a>	29	27	0.139
Probe without shut-off Midi Series: straight-through = 2200 NI/min							



# Midi Series


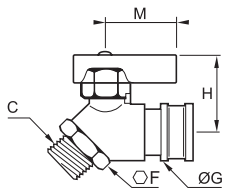


Without Shut-Off




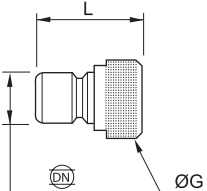


Single Shut-Off




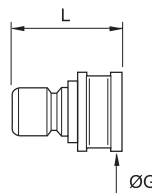


## 2270 Coupler with Tap, Male BSP Thread

	Nickel-plated brass, NBR 	 <b>C</b> 	<b>F</b>	<b>G</b>	<b>H</b>	<b>M</b>	<b>kg</b>	
			12	G1/2	<b>2270 21 00</b>	28	29	40.5
Flow = 2200 NI/min								


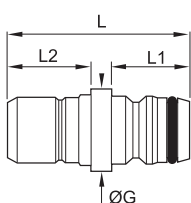


## 2203 Plug

	Nickel-plated brass 	 	<b>G</b>	<b>L</b>	<b>kg</b>
			12	<b>2203 12 00</b>	20


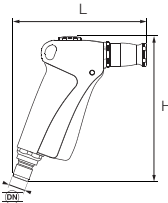


## 2292 Universal Coupler Adaptor

	Nickel-plated brass, NBR 	 	<b>G</b>	<b>L</b>	<b>kg</b>
			12	<b>2292 12 00</b>	29
Without shut-off This adaptor provides interchangeability with numerous components (especially watering accessories).					


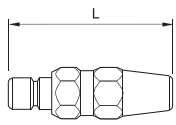


## 2398 Universal Probe Adaptor

	Nickel-plated brass, NBR 	 	<b>G</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
			12	<b>2398 12 01</b>	20	43	19
This adaptor provides interchangeability with numerous components (especially watering accessories).							

## 2299 Water Pistol

	Zamak, Nickel-plated brass, NBR 	 	<b>H</b>	<b>L</b>	<b>kg</b>
			12	<b>2299 12 01</b>	140
This pistol allows independent control of: - the flow rate (trigger) - type of jet (adjustable to a fine mist) by the adjustable Probe					

## 2299 Adjustable Nozzle


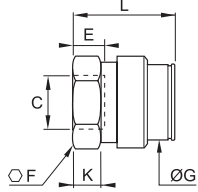


	Nickel-plated brass, NBR 	 	<b>L</b>	<b>kg</b>
			12	<b>2299 12 20</b>
This nozzle allows adjustment of the spray.				

# Maxi Series

Without Shut-Off


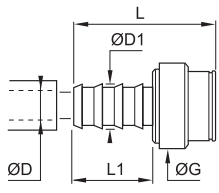




## 2272 Coupler, Straight-Through, Female BSP Thread

	Nickel-plated brass, NBR 		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>K</b>	<b>L</b>	<b>kg</b>


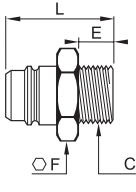


Maxi series: straight-through = 8500 NI/min

## 2297 Coupler, Straight-Through with Barb Connection for Hose

	Nickel-plated brass, NBR 		<b>ØD</b>	<b>ØD1</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>


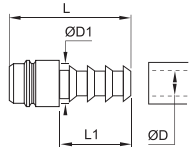


Maxi series: straight-through = 8500 NI/min

## 2294 Coupler, Straight-Through, Male BSP Thread

	Nickel-plated brass 		<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
			G1	2294 18 34	13	34	46	0.102

Probe without shut-off

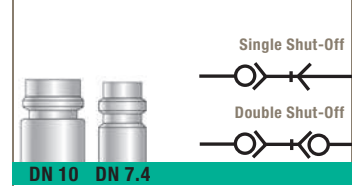
## 2295 Coupler, Straight-Through with Barb Connection for Flexible Hose

	Nickel-plated brass 		<b>ØD</b>	<b>ØD1</b>		<b>L</b>	<b>L1</b>	<b>kg</b>

Probe without shut-off

# Stainless Steel European Profile

## X25 and X27 Series



### 9201 Coupler, Male BSPP Thread

	Stainless steel 316L, FKM		<b>DN</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
			7.4	G1/4	<a href="#">9201X25 13</a>	10.5	19	23	59	0.095
				G3/8	<a href="#">9201X25 17</a>	9	19	23	57.5	0.094
				G1/2	<a href="#">9201X25 21</a>	12	24	23	60.5	0.131
			10	G3/8	<a href="#">9201X27 17</a>	9	24	27	57.5	0.131
				G1/2	<a href="#">9201X27 21</a>	12	24	27	59.5	0.134
				G3/4	<a href="#">9201X27 27</a>	16	32	27	60.5	0.171

X25 Series (DN 7.4): single shut-off = 1800 NI/min / X25 Series (DN 7.4): double shut-off = 710 NI/min  
X27 Series (DN 10): single shut-off = 2400 NI/min / X27 Series (DN 10): double shut-off = 900 NI/min

### 9214 Coupler, Female BSPP Thread

	Stainless steel 316L, FKM		<b>DN</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
			7.4	G1/4	<a href="#">9214X25 13</a>	10	19	23	56	0.096
				G3/8	<a href="#">9214X25 17</a>	9	19	23	55	0.089
				G1/2	<a href="#">9214X25 21</a>	12	24	23	58	0.119
			10	G3/8	<a href="#">9214X27 17</a>	11	24	27	56	0.140
				G1/2	<a href="#">9214X27 21</a>	12	24	27	56	0.127
				G3/4	<a href="#">9214X27 27</a>	16	32	27	60	0.191

X25 Series (DN 7.4): single shut-off = 1800 NI/min / X25 Series (DN 7.4): double shut-off = 710 NI/min  
X27 Series (DN 10): single shut-off = 2400 NI/min / X27 Series (DN 10): double shut-off = 900 NI/min

### 9287 Probe, Valved, Male BSPP Thread

	Stainless steel 316L, FKM		<b>DN</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			7.4	G1/4	<a href="#">9287X25 13</a>	10	19	43	20	0.052
				G3/8	<a href="#">9287X25 17</a>	9	19	43	20	0.053
				G1/2	<a href="#">9287X25 21</a>	12	24	46	20	0.089
			10	G3/8	<a href="#">9287X27 17</a>	9	24	58	22	0.080
				G1/2	<a href="#">9287X27 21</a>	12	24	58	22	0.084
				G3/4	<a href="#">9287X27 27</a>	16	32	62	22	0.122

Probe with shut-off

### 9087 Probe, Straight-Through, Male BSPP Thread

	Stainless steel 316L		<b>DN</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			7.4	G1/4	<a href="#">9087X25 13</a>	9	17	34	20	0.018
				G3/8	<a href="#">9087X25 17</a>	9	19	34	20	0.014
				G1/2	<a href="#">9087X25 21</a>	12	24	36	20	0.047
			10	G3/8	<a href="#">9087X27 17</a>	9	19	37	22	0.013
				G1/2	<a href="#">9087X27 21</a>	12	24	40	22	0.052
				G3/4	<a href="#">9087X27 27</a>	16	32	45	22	0.086

Probe without shut-off

### 9286 Probe, Valved, Female BSPP Thread

	Stainless steel 316L, FKM		<b>DN</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			7.4	G1/4	<a href="#">9286X25 13</a>	10	19	54	20	0.056
				G3/8	<a href="#">9286X25 17</a>	9	19	53	20	0.049
				G1/2	<a href="#">9286X25 21</a>	12	24	56	20	0.079
			10	G3/8	<a href="#">9286X27 17</a>	9	24	55	22	0.090
				G1/2	<a href="#">9286X27 21</a>	12	24	55	22	0.080
				G3/4	<a href="#">9286X27 27</a>	16	24	58	22	0.140

Probe with shut-off

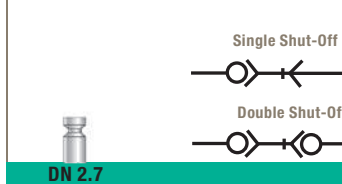
### 9086 Probe, Straight-Through, Female BSPP Thread

	Stainless steel 316L		<b>DN</b>	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			7.4	G1/4	<a href="#">9086X25 13</a>	12	10	33	20	0.023
				G3/8	<a href="#">9086X25 17</a>	12	10	33	20	0.022
				G1/2	<a href="#">9086X25 21</a>	14	12	35	20	0.035
			10	G3/8	<a href="#">9086X27 17</a>	9	19	33	22	0.026
				G1/2	<a href="#">9086X27 21</a>	12	24	37	22	0.037
				G3/4	<a href="#">9086X27 27</a>	16	32	42	22	0.091

Probe without shut-off

# Stainless Steel German Profile

## X20 Series



### 9201 Coupler, Male BSPP and Metric Thread

	Stainless steel 316L, FKM		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
			2.7	M5x0.8	<a href="#">9201X20 19</a>	5	9	10	26	0.008
				G1/8	<a href="#">9201X20 10</a>	7	11	10	28	0.011
X20 Series (DN 2.7) : single shut-off = 165 NI/min X20 Series (DN 2.7) : double shut-off = 130 NI/min										

### 9214 Coupler, Female BSPP and Metric Thread

	Stainless steel 316L, FKM		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
			2.7	M5x0.8	<a href="#">9214X20 19</a>	5	9	10	26	0.009
				G1/8	<a href="#">9214X20 10</a>	7	12	10	28	0.012
X20 Series (DN 2.7) : single shut-off = 165 NI/min X20 Series (DN 2.7) : double shut-off = 130 NI/min										

### 9287 Probe, Valved, Male BSPP and Metric Thread

	Stainless steel 316L, FKM		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			2.7	M5x0.8	<a href="#">9287X20 19</a>	5	9	28	10	0.005
				G1/8	<a href="#">9287X20 10</a>	7	11	30	10	0.009
Probe with shut-off										

### 9087 Probe, Straight-Through, Male BSPP and Metric Thread

	Stainless steel 316L		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			2.7	M5x0.8	<a href="#">9087X20 19</a>	5	7	18	10	0.010
				G1/8	<a href="#">9087X20 10</a>	7	11	20	10	0.015
Probe without shut-off										

### 9286 Probe, Valved, Female BSPP and Metric Thread

	Stainless steel 316L, FKM		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			2.7	M5x0.8	<a href="#">9286X20 19</a>	5	9	26	10	0.010
				G1/8	<a href="#">9286X20 10</a>	7	12	30	10	0.014
Probe with shut-off										

### 9086 Probe, Straight-Through, Female BSPP and Metric Thread

	Stainless steel 316L		$\overline{\text{DN}}$	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			2.7	M5x0.8	<a href="#">9086X20 19</a>	5	7	17	10	0.002
				G1/8	<a href="#">9086X20 10</a>	7	12	19	10	0.005
Probe without shut-off										



# Quick-Acting Mould Couplers

These Parker Legris quick-acting couplers provide the **best compromise** between **technical performance and ease of use** while providing long-term, reliable temperature regulation.

## Product Advantages

- Ergonomic**
  - Can be connected using one hand by simply pushing the coupler body into the socket
  - Knurled sleeve provides excellent grip
  - Compact
- Performance**
  - Direct and automatic sealing
  - Socket threads are pre-coated
  - Maximum flow rate



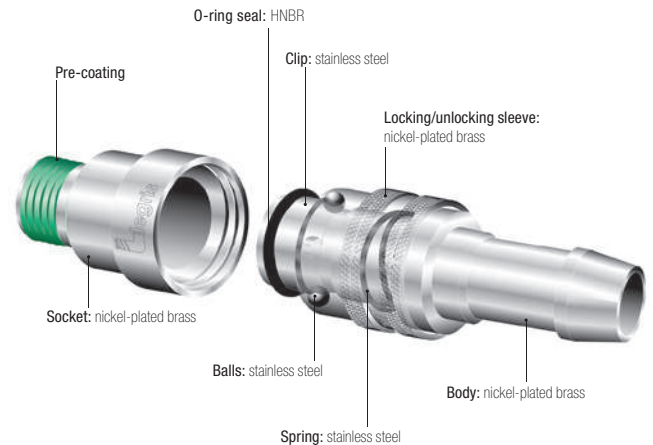
Applications

- Plastic Injection Moulding
- Cooling
- Die-Casting
- Rubber Overmoulding
- Printing
- Coating & Laminating

## Technical Characteristics

<b>Compatible Fluids</b>	Cold water, coolants, hot water, oil
<b>Working Pressure</b>	0 to 10 bar
<b>Working Temperature</b>	-15°C to +90°C (water applications) <i>For temperatures above 90°C, please contact us.</i>

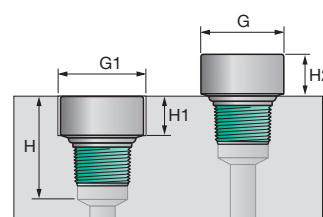
### Component Materials



## Installation

### Cavity Dimensions

	G	G1	H	H1	H2
9075T08 10	21	22	33	24	22
9075T08 13	21	22	34	24	22
9075T08 17	21	22	25	13	11
9075T12 17	32	33	42	30	28
9075T12 21	32	33	45	30	28



# Quick-Acting Mould Couplers

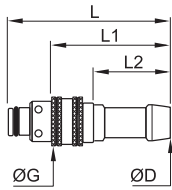
Without Shut-Off



## 9020 Coupler with Hosetail



Nickel-plated brass, HNBR

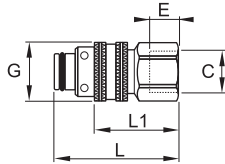


DN	ØD		G	L	L1	L2	kg
8	8	<a href="#">9020T08 08</a>	21	60	44	28	0.050
	10	<a href="#">9020T08 10</a>	21	60	44	28	0.054
	12	<a href="#">9020T08 12</a>	21	65	48	32	0.063
12	13	<a href="#">9020T12 13</a>	32	75	53	32	0.069
	16	<a href="#">9020T12 16</a>	32	75.5	54	32.5	0.172

## 9040 Coupler, Female BSPP Thread



Nickel-plated brass, HNBR

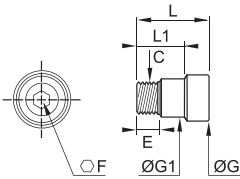


DN	C		E	G	L	L1	kg
8	G1/4	<a href="#">9040T08 13</a>	10.5	21	43	27	0.056
12	G1/2	<a href="#">9040T12 21</a>	15	32	66	44	0.208

## 9075 Female Socket, Male BSPT Thread



Nickel-plated brass



DN	C		E	F	G	G1	L	L1	kg
8	R1/8	<a href="#">9075T08 10</a>	10	6	21	17.5	32	21	0.028
	R1/4	<a href="#">9075T08 13</a>	13	8	21	17.5	33	22	0.031
	R3/8	<a href="#">9075T08 17</a>	13	8	21	-	24	-	0.023
12	R3/8	<a href="#">9075T12 17</a>	13	10	32	25	41	27	0.073
	R1/2	<a href="#">9075T12 21</a>	16	14	32	25	44	30	0.075

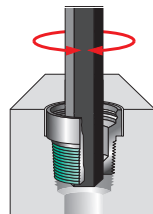
Other coupler shapes are available on request:

- 90° angled body, with hosetail
- 45° angled body, female BSPP
- 90° angled body, female BSPP



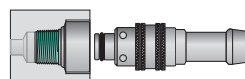
### Socket Installation

Two types of installation can be used for moulds. Sockets are fitted into the cavities using an Allen key.



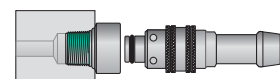
#### Recessed Socket

This type of installation is recommended for new moulds



#### Exposed Socket

This type of installation is suited to moulds with no existing cavity.



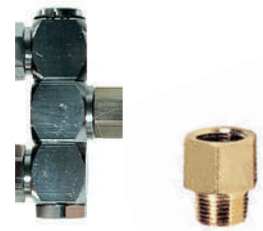
# Metal Quick-Acting Coupler Accessories

Parker Legris has developed a range of accessories for quick-acting couplers which save time, **match the product** to the application and **increase the life** of the equipment.

## Product Advantages

**Performance** | Interchangeability with ISO B probe profile  
 Avoids tube twisting  
 Facilitates use by following movements  
 Robust

**Adaptable** | Two models depending on the application:  
 Oscillating fittings:  
 • angled at 45° and fitted with a ball bearing  
 • effortless rotation through 360°  
 Flexible fittings:  
 • fitted with a ball joint mounted on a lubricated plastic seat  
 • single connection providing an angle of rotation of 70°  
 • multiple tees (three connections) providing an angle of rotation of 360°



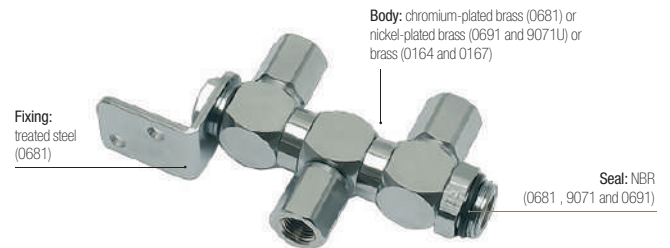
Pneumatics  
 Water  
 Workshops  
 Industrial Machinery

Applications

## Technical Characteristics

<b>Compatible Fluids</b>	Industrial fluids
<b>Working Pressure</b>	Oscillating fittings: 0 to 15 bar Flexible fittings: 0 to 10 bar Swivelling multiple tees: 0 to 20 bar
<b>Working Temperature</b>	-5°C to +60°C

### Component Materials



Other accessories are available on request:


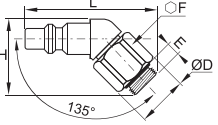


- ISO B rotary fitting, male BSPT
- ISO B jointed fitting, male BSPP
- multiple tee with 2 outlets, female male BSPP







# Metal Quick-Acting Coupler Accessories


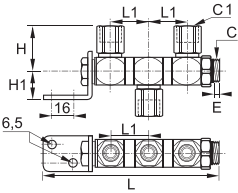


## 9071U Oscillating ISO B Probe, Male BSPP Thread

	Treated steel, NBR 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>H</b>	<b>L</b>	<b>kg</b>
		6 G1/4 <a href="#">9071U06 13</a>	5.5	19	30	52	0.066
		8 G1/4 <a href="#">9071U08 13</a>	5.5	19	30	52	0.077


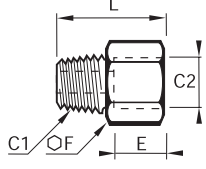


## 0691 Flexible Fitting, Female/Male BSPP Thread

	Treated steel, NBR 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>
		5.5 G1/4 <a href="#">0691 13 13</a>	5.5	24	25.5	56	0.090
		NBR sleeve					


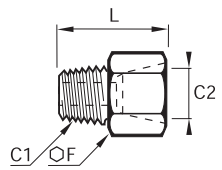


## 0681 Multiple Tee with 3 Female Outlets, Male/Female BSPP Thread

	Chrome-plated brass, NBR 	 <b>C</b> <b>C1</b> 	<b>E</b>	<b>H</b>	<b>H1</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		G1/2 G1/4 <a href="#">0681 13 21</a>	7.5	36	24	138.5	30	0.430

## 0164 Adaptor, Male NPT/Female BSPP Thread

	Brass 	 <b>C1</b> <b>C2</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
		NPT1/8 G1/8 <a href="#">0164 11 10</a>	7.5	14	20	0.015
		NPT1/4 G1/4 <a href="#">0164 14 13</a>	11	17	27.5	0.028
		NPT3/8 G3/8 <a href="#">0164 18 17</a>	11.5	22	28.5	0.044
		NPT1/2 G1/2 <a href="#">0164 22 21</a>	15	27	36.5	0.082
		NPT3/4 G3/4 <a href="#">0164 28 27</a>	16.5	32	38.5	0.110
		Adaptor for female socket of quick-acting mould couplers				

## 0167 Adaptor, Male BSPT/Female NPT Thread

	Brass 	 <b>C1</b> <b>C2</b> 	<b>F</b>	<b>L</b>	<b>kg</b>
		R1/8 NPT1/8 <a href="#">0167 10 11</a>	14	21	0.016
		R1/4 NPT1/4 <a href="#">0167 13 14</a>	17	28.5	0.029
		R3/8 NPT3/8 <a href="#">0167 17 18</a>	22	29.5	0.047
		R1/2 NPT1/2 <a href="#">0167 21 22</a>	27	37.5	0.088
		R3/4 NPT3/4 <a href="#">0167 27 28</a>	32	39.5	0.120
		Adaptor for female socket of quick-acting mould couplers			

# Adaptors and Manifolds





# A Complete Range of Adaptors

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# Adaptors, Plugs and Manifolds

Parker Legris offers a **wide range of adaptors and manifolds** compatible with the various Parker Legris fitting systems. This range of products provides the user with a **complete solution** covering numerous applications, both in non-corrosive and corrosive environments.

## Product Advantages

### Large Range & Flexibility

A complete offer, from the simple adaptor to a modular manifold solution

Large selection of materials for excellent chemical compatibility: brass, steel, stainless steel, aluminium

Surface treatment for increased corrosion resistance: nickel-plated brass or anodised aluminium

Stainless steel for corrosive environments

BSPP, BSPT, NPT and metric threads

### Performance

Robust design

Suitable for low to high pressure, depending on configuration and material

Forged shapes for mechanical strength



Packaging  
Robotics  
Textile  
Pneumatics  
Automotive Process  
Food Process


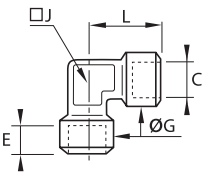

Applications

## Technical Characteristics


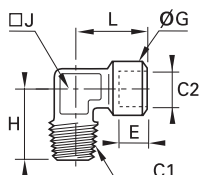

Products	Adaptors and Plugs				Manifolds
Component Materials	Brass	Nickel-plated brass	Stainless steel 316L	Steel	Anodised aluminium
Working Pressure	1/8" to 1/2": 200 bar 3/4" and 1": 150 bar 1 1/4" to 2": 100 bar, without sealing washer	60 bar	1/8" to 1/2": 200 bar 3/4" and 1": 150 bar 1 1/4" to 2": 100 bar, without sealing washer	1/8" to 1/2": 200 bar 3/4" and 1": 150 bar 1 1/4" to 2": 100 bar, without sealing washer	20 bar
Working Temperature	-40°C to +150°C without sealing washer  -20°C to +80°C with sealing washer	-10°C to +80°C	-20°C to +180°C	-10°C to +80°C	-10°C to +80°C

# Brass Adaptors


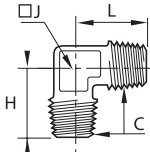

## 0143 Equal Threaded Elbow, Female BSPP Thread

		<b>C</b>		<b>E</b>	<b>G</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		G1/8	<a href="#">0143 10 10</a>	7.5	16.5	12	22.5	0.044
		G1/4	<a href="#">0143 13 13</a>	11	18.5	15	26.5	0.055
		G3/8	<a href="#">0143 17 17</a>	11.5	23.5	19	31.5	0.100
		G1/2	<a href="#">0143 21 21</a>	15	28	23	34.5	0.150
		G3/4	<a href="#">0143 27 27</a>	16.5	34	27	43.5	0.242


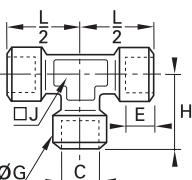

## 0144 Equal Stud Elbow, Male BSPT/Female BSPP Thread

		<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		R1/8	G1/8	<a href="#">0144 10 10</a>	7.5	16.5	23	12	22.5	0.036
		R1/4	G1/4	<a href="#">0144 13 13</a>	11	18.5	26	15	26.5	0.054
		R3/8	G3/8	<a href="#">0144 17 17</a>	11.5	23.5	30	19	31.5	0.088
		R1/2	G1/2	<a href="#">0144 21 21</a>	15	28	35	23	34.5	0.140
		R3/4	G3/4	<a href="#">0144 27 27</a>	16.5	34	40	27	43.5	0.228


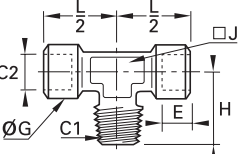

## 0152 Equal Elbow, Male BSPT Thread

		<b>C</b>		<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		R1/8	<a href="#">0152 10 10</a>	19.5	10	19.5	0.017
		R1/4	<a href="#">0152 13 13</a>	25	15	25	0.045
		R3/8	<a href="#">0152 17 17</a>	26.5	15	26.5	0.055
		R1/2	<a href="#">0152 21 21</a>	31.5	19	31.5	0.088
		R3/4	<a href="#">0152 27 27</a>	35.5	23	35.5	0.153

## 0145 Equal Tee, Female BSPP Thread


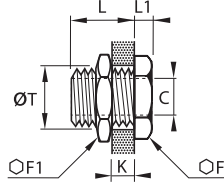

		<b>C</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L/2</b>	<b>kg</b>
		G1/8	<a href="#">0145 10 10</a>	7.5	16.5	22.5	12	22.5	0.056
		G1/4	<a href="#">0145 13 13</a>	11	18.5	26.5	15	26.5	0.083
		G3/8	<a href="#">0145 17 17</a>	11.5	23.5	31	19	31	0.131
		G1/2	<a href="#">0145 21 21</a>	15	28	38	23	38	0.242
		G3/4	<a href="#">0145 27 27</a>	16.5	34	47.5	27	47.5	0.378

## 0158 Stud Branch Tee, Male BSPT/Female BSPP Thread


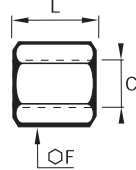

		<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L/2</b>	<b>kg</b>
		R1/8	G1/8	<a href="#">0158 10 10</a>	7.5	16.5	21.5	12	21.5	0.046
		R1/4	G1/4	<a href="#">0158 13 13</a>	11	18.5	26	15	26	0.074
		R3/8	G3/8	<a href="#">0158 17 17</a>	11.5	23.5	30	19	30	0.120
		R1/2	G1/2	<a href="#">0158 21 21</a>	15	28	36	23	36	0.205
		R3/4	G3/4	<a href="#">0158 27 27</a>	16.5	34	44	27	44	0.310

# Brass Adaptors


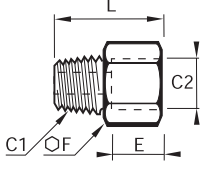

## 0117 Equal Bulkhead Coupling, Female BSPP and Metric Thread

	Brass 	<b>C</b>		<b>F</b>	<b>F1</b>	<b>K<sub>max</sub></b>	<b>L</b>	<b>L1</b>	<b>ØT</b>	<b>kg</b>
		M5x0.8	<a href="#">0117 00 19</a>	14	14	7	10.5	3.5	10.5	0.012
		G1/8	<a href="#">0117 00 10</a>	19	22	9	14	4	16.5	0.033
		G1/4	<a href="#">0117 00 13</a>	24	27	15	21	4	20.5	0.057
		G3/8	<a href="#">0117 00 17</a>	30	32	14	21	5	26.5	0.096
		G1/2	<a href="#">0117 00 21</a>	32	36	20	27	6	28.5	0.116
		G3/4	<a href="#">0117 00 27</a>	41	41	22.5	30	6	34.5	0.161
		G1	<a href="#">0117 00 34</a>	46	50	24.5	34	8	42.5	0.266
		G1 1/4	<a href="#">0117 00 42</a>	55	55	29.5	39	8	49.5	0.299
		G1 1/2	<a href="#">0117 00 49</a>	60	60	29.5	39	8	54.5	0.303


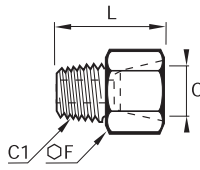

## 0155 Equal Connector, Female BSPP Thread

	Brass 	<b>C</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		G1/8	<a href="#">0155 10 10</a>	14	17	0.014
		G1/4	<a href="#">0155 13 13</a>	17	24	0.026
		G3/8	<a href="#">0155 17 17</a>	22	25	0.046
		G1/2	<a href="#">0155 21 21</a>	27	32	0.084
G3/4	<a href="#">0155 27 27</a>	32	35	0.109		


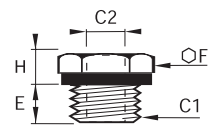

## 0164 Adaptor, Male NPT/Female BSPP Thread

	Brass 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
		NPT1/8	G1/8	<a href="#">0164 11 10</a>	7.5	14	20	0.015
		NPT1/4	G1/4	<a href="#">0164 14 13</a>	11	17	27.5	0.028
		NPT3/8	G3/8	<a href="#">0164 18 17</a>	11.5	22	28.5	0.044
		NPT1/2	G1/2	<a href="#">0164 22 21</a>	15	27	36.5	0.082
		NPT3/4	G3/4	<a href="#">0164 28 27</a>	16.5	32	38.5	0.110

## 0167 Adaptor, Male BSPT/Female NPT Thread

	Brass 	<b>C1</b>	<b>C2</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		R1/8	NPT1/8	<a href="#">0167 10 11</a>	14	21	0.016
		R1/4	NPT1/4	<a href="#">0167 13 14</a>	17	28.5	0.029
		R3/8	NPT3/8	<a href="#">0167 17 18</a>	22	29.5	0.047
		R1/2	NPT1/2	<a href="#">0167 21 22</a>	27	37.5	0.088
		R3/4	NPT3/4	<a href="#">0167 27 28</a>	32	39.5	0.120

## 0168 Reducer, Male BSPP/Female BSPP and Metric Thread


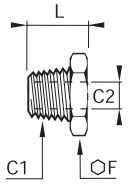

	Brass, technical polymer 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		G1/8	M5x0.8	<a href="#">0168 10 19</a>	7	14	6	0.009
		G1/4	M5x0.8	<a href="#">0168 13 19</a>	7	17	7	0.017
			G1/8	<a href="#">0168 13 10</a>	7	17	7	0.011
		G3/8	G1/8	<a href="#">0168 17 10</a>	9	19	6	0.019
			G1/4	<a href="#">0168 17 13</a>	9	19	6	0.013
		G1/2	G1/8	<a href="#">0168 21 10</a>	11	24	10	0.050
			G1/4	<a href="#">0168 21 13</a>	11	24	10	0.041
			G3/8	<a href="#">0168 21 17</a>	11	24	10	0.029
		G3/4	G1/4	<a href="#">0168 27 13</a>	11	32	12	0.098
			G3/8	<a href="#">0168 27 17</a>	11	32	12	0.083
			G1/2	<a href="#">0168 27 21</a>	11	32	12	0.063

With fitted captive seal


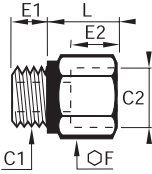



# Brass Adaptors

## 0163 Unequal Reducer, Male BSPT/Female BSPP Thread


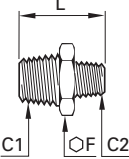

	Brass		<b>C1</b>	<b>C2</b>		<b>F</b>	<b>L</b>	<b>kg</b>
			R1/4	G1/8	<a href="#">0163 13 10</a>	14	16	0.009
			R3/8	G1/8	<a href="#">0163 17 10</a>	17	16.5	0.020
				G1/4	<a href="#">0163 17 13</a>	17	16.5	0.012
			R1/2	G1/8	<a href="#">0163 21 10</a>	22	21	0.048
				G3/8	<a href="#">0163 21 17</a>	22	21	0.024
			R3/4	G1/4	<a href="#">0163 27 13</a>	27	24	0.084
				G3/8	<a href="#">0163 27 17</a>	27	24	0.069
				G1/2	<a href="#">0163 27 21</a>	27	24	0.046

## 0169 Increaser, Male/Female BSPP Thread


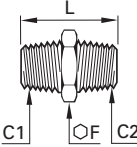

	Brass, technical polymer		<b>C1</b>	<b>C2</b>		<b>E1</b>	<b>E2</b>	<b>F</b>	<b>L</b>	<b>kg</b>
			G1/8	G1/4	<a href="#">0169 10 13</a>	5	11	17	16	0.019
			G1/8	G3/8	<a href="#">0169 10 17</a>	5	14	22	19.5	0.039
				G3/8	<a href="#">0169 13 17</a>	7	14	22	19.5	0.041
			G1/4	G1/2	<a href="#">0169 13 21</a>	7	14.5	27	20.5	0.062
				G1/2	<a href="#">0169 17 21</a>	8	14.5	27	20.5	0.062
			G3/8	G3/4	<a href="#">0169 17 27</a>	8	15.5	32	22	0.082
				G3/4	<a href="#">0169 21 27</a>	9.5	15.5	32	22.5	0.087

With fitted captive seal

## 0121 Straight Male Adaptor, Male BSPT Thread


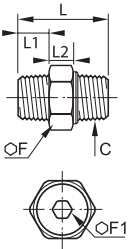

	Brass		<b>C1</b>	<b>C2</b>		<b>F</b>	<b>L</b>	<b>kg</b>
			R1/8	R1/8	<a href="#">0121 10 10</a>	11	19	0.009
			R1/4	R1/8	<a href="#">0121 13 10</a>	14	23.5	0.017
				R1/4	<a href="#">0121 13 13</a>	14	27	0.020
			R3/8	R1/8	<a href="#">0121 17 10</a>	17	24	0.021
				R1/4	<a href="#">0121 17 13</a>	17	27.5	0.025
			R1/2	R3/8	<a href="#">0121 17 17</a>	17	28	0.026
				R1/8	<a href="#">0121 21 10</a>	22	28.5	0.042
				R1/4	<a href="#">0121 21 13</a>	22	32	0.045
			R3/4	R3/8	<a href="#">0121 21 17</a>	22	32.5	0.045
				R1/2	<a href="#">0121 21 21</a>	22	36	0.052
				R1/4	<a href="#">0121 27 13</a>	27	35	0.078
				R3/8	<a href="#">0121 27 17</a>	27	35.5	0.078
			R1	R1/2	<a href="#">0121 27 21</a>	27	39	0.085
				R3/4	<a href="#">0121 27 27</a>	27	40	0.091
				R3/8	<a href="#">0121 34 17</a>	36	38.5	0.127
				R1/2	<a href="#">0121 34 21</a>	36	42	0.134
				R3/4	<a href="#">0121 34 27</a>	36	43	0.143
				R1	<a href="#">0121 34 34</a>	36	46	0.154
			R1 1/4	R1/2	<a href="#">0121 42 21</a>	46	46.5	0.220
				R3/4	<a href="#">0121 42 27</a>	46	47.5	0.224
				R1	<a href="#">0121 42 34</a>	46	50.5	0.239
				R1 1/4	<a href="#">0121 42 42</a>	46	53	0.230

## 0121 Equal Adaptor, Male NPT/BSPT Thread

	Brass		<b>C1</b>	<b>C2</b>		<b>F</b>	<b>L</b>	<b>kg</b>
			NPT1/8	R1/8	<a href="#">0121 11 10</a>	11	19	0.009
			NPT1/4	R1/4	<a href="#">0121 14 13</a>	14	27	0.021
			NPT3/8	R3/8	<a href="#">0121 18 17</a>	17	28	0.026
			NPT1/2	R1/2	<a href="#">0121 22 21</a>	22	36	0.052
			NPT3/4	R3/4	<a href="#">0121 28 27</a>	27	40	0.090


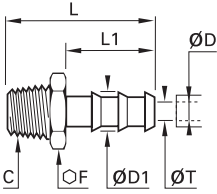

# Brass Adaptors

## 0929 Equal 3-Piece Adaptor, Male BSPT Thread


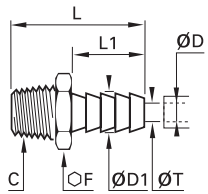

	Brass, NBR 	<b>C</b>		<b>F</b>	<b>F1</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		R1/8	<a href="#">0929 01 10</a>	15	5	27	9	8.5	0.017
		R1/4	<a href="#">0929 01 13</a>	19	6	33.5	11.5	9.5	0.035
		R3/8	<a href="#">0929 01 17</a>	22	8	36.5	13	10	0.054
		R1/2	<a href="#">0929 01 21</a>	27	12	45	15.5	12	0.088

This connection accessory makes assembly much easier thanks to its 3-piece design.  
 To join 2 threaded components, simply push together and tighten the sleeve nut, thus reducing installation time.  
 Maximum working pressure: 50 bar  
 Working temperature: -10° to +80°C  
 Supplied with seal

## 0123 Tailpiece Adaptor for Rubber Hose, Male BSPT Thread


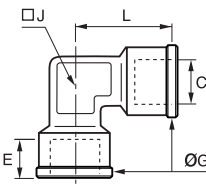

	Brass 	<b>ØD</b>	<b>ØD1</b>	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>ØT</b>	<b>kg</b>
		4	6	R1/8	<a href="#">0123 04 10</a>	10	34	22.5	3.3	0.008
		6	8	R1/8	<a href="#">0123 06 10</a>	10	34	22.5	5	0.009
		7	9	R1/8	<a href="#">0123 07 10</a>	10	34	22.5	5	0.009
			9	R1/4	<a href="#">0123 07 13</a>	14	38.5	22.5	6	0.018
		10	9	R3/8	<a href="#">0123 07 17</a>	17	39	22.5	6	0.023
			12.2	R1/8	<a href="#">0123 10 10</a>	13	34	22.5	5	0.014
			12.2	R1/4	<a href="#">0123 10 13</a>	14	38.5	22.5	7	0.020
		12	12.2	R3/8	<a href="#">0123 10 17</a>	17	39	22.5	9.5	0.023
			14	R3/8	<a href="#">0123 12 17</a>	17	46	29.5	11	0.026
		13	15	R1/4	<a href="#">0123 13 13</a>	17	45.5	29.5	7	0.026
			15	R3/8	<a href="#">0123 13 17</a>	17	46	29.5	11	0.027
			15	R1/2	<a href="#">0123 13 21</a>	22	50.5	29.5	12	0.045
		16	18.5	R3/8	<a href="#">0123 16 17</a>	19	54.5	38	11	0.040
			18.5	R1/2	<a href="#">0123 16 21</a>	22	59	38	14	0.054
			18.5	R3/4	<a href="#">0123 16 27</a>	27	62	38	15	0.084
		19	21.5	R3/8	<a href="#">0123 19 17</a>	22	54.5	38	11	0.046
			21.5	R1/2	<a href="#">0123 19 21</a>	22	59	38	14	0.056
			21.5	R3/4	<a href="#">0123 19 27</a>	27	62	38	18	0.082
		25	26.7	R3/4	<a href="#">0123 25 27</a>	27	62	38	18	0.079
			27	R1	<a href="#">0123 25 34</a>	36	65	38	24	0.124
		32	34.5	R1	<a href="#">0123 32 34</a>	36	70	43	24	0.141

## 0136 Tailpiece Adaptor for Flexible Tubing, Male BSPT Thread


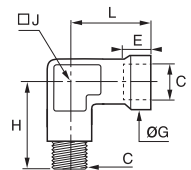

	Brass 	<b>ØD</b>	<b>ØD1</b>	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>ØT</b>	<b>kg</b>
		4	4.3	R1/8	<a href="#">0136 06 10</a>	10	26.5	15	2	0.007
			4.3	R1/4	<a href="#">0136 06 13</a>	14	31	15	2	0.015
			4.3	R3/8	<a href="#">0136 06 17</a>	17	31.5	15	2	0.020
		6	6.4	R1/8	<a href="#">0136 08 10</a>	10	26.5	15	4	0.007
			6.4	R1/4	<a href="#">0136 08 13</a>	14	31	15	4	0.015
		8	6.4	R3/8	<a href="#">0136 08 17</a>	17	31.5	15	4	0.020
			8.4	R1/4	<a href="#">0136 10 13</a>	14	31	15	6	0.016
			8.4	R3/8	<a href="#">0136 10 17</a>	17	31.5	15	6	0.020
		10	8.4	R1/2	<a href="#">0136 10 21</a>	22	36	15	6	0.039
			10.7	R1/4	<a href="#">0136 12 13</a>	14	36	20	7	0.018
			10.7	R3/8	<a href="#">0136 12 17</a>	17	36.5	20	8	0.023
		12	10.7	R1/2	<a href="#">0136 12 21</a>	22	41	20	8	0.041
			12.7	R1/4	<a href="#">0136 14 13</a>	14	36	20	7	0.019
			12.7	R3/8	<a href="#">0136 14 17</a>	17	36.5	20	10	0.023
			12.7	R1/2	<a href="#">0136 14 21</a>	22	41	20	10	0.040
		13	12.7	R3/4	<a href="#">0136 14 27</a>	27	44	20	10	0.071
			13.7	R3/8	<a href="#">0136 16 17</a>	17	36.5	20	11	0.023
			13.7	R1/2	<a href="#">0136 16 21</a>	22	41	20	11	0.041
					<a href="#">0136 16 27</a>	27	44	20	11	0.070

# Nickel-Plated Brass Adaptors


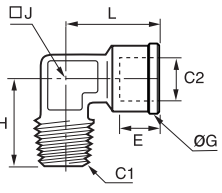

## 0912 Equal Stud Elbow, Female BSPP and Metric Thread

	Nickel-plated brass 	<b>C</b>		<b>E</b>	<b>G</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		M5x0.8	<a href="#">0912 00 19</a>	4	8	9	11	0.006
		G1/8	<a href="#">0912 00 10</a>	8	13	10	18.5	0.015
		G1/4	<a href="#">0912 00 13</a>	11	17	12	22.5	0.028
		G3/8	<a href="#">0912 00 17</a>	11.5	21	15	25.5	0.043
		G1/2	<a href="#">0912 00 21</a>	14	26	19	30	0.073
		G3/4	<a href="#">0912 00 27</a>	16.5	32	22	35.5	0.143
		G1	<a href="#">0912 00 34</a>	18	38.5	28	40.5	0.166


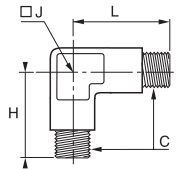

## 0921 Equal Stud Elbow, Male/Female and Metric Thread

	Nickel-plated brass 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		M5x0.8	M5x0.8	<a href="#">0921 00 19</a>	4	8	11	9	11	0.006


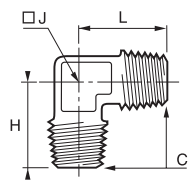

## 0913 Equal Stud Elbow, Male BSPT/ Female BSPP Thread

	Nickel-plated brass 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		R1/8	G1/8	<a href="#">0913 00 10</a>	8	13	17	10	18.5	0.012
		R1/4	G1/4	<a href="#">0913 00 13</a>	11	17	22.5	12	22.5	0.026
		R3/8	G3/8	<a href="#">0913 00 17</a>	11.5	21	25.5	15	25.5	0.038
		R1/2	G1/2	<a href="#">0913 00 21</a>	14	26	30	19	30	0.064
		R3/4	G3/4	<a href="#">0913 00 27</a>	16.5	32	34.5	22	35.5	0.098
		R1	G1	<a href="#">0913 00 34</a>	18	38.5	40.5	28	40.5	0.000

## 0922 Equal Stud Elbow, Male Metric Thread


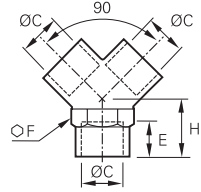

	Nickel-plated brass 	<b>C</b>		<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		M5x0.8	<a href="#">0922 00 19</a>	11	9	11	0.010

## 0914 Equal Stud Elbow, Male BSPT Thread


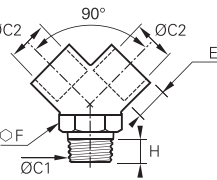

	Nickel-plated brass 	<b>C</b>		<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
		R1/8	<a href="#">0914 00 10</a>	17	10	17	0.012
		R1/4	<a href="#">0914 00 13</a>	22.5	12	22.5	0.027
		R3/8	<a href="#">0914 00 17</a>	25.5	15	25.5	0.035
		R1/2	<a href="#">0914 00 21</a>	30	19	30	0.056
		R3/4	<a href="#">0914 00 27</a>	34.5	22	34.5	0.104
		R1	<a href="#">0914 00 34</a>	40.5	28	40.5	0.156

# Nickel-Plated Brass Adaptors


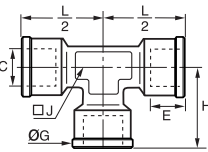

## 0910 Equal Y, Female BSPP Thread

	<p>Nickel-plated brass</p> 	<b>C</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		G1/8	<a href="#">0910 00 10</a>	8	13	12	0.018
		G1/4	<a href="#">0910 00 13</a>	11	17	14	0.033
		G3/8	<a href="#">0910 00 17</a>	11.5	20	16	0.045
		G1/2	<a href="#">0910 00 21</a>	14	25	19	0.083


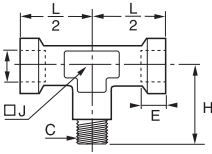

## 0911 Equal Y, Male BSPT/Female BSPP Thread

	<p>Nickel-plated brass</p> 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>F</b>	<b>H</b>	<b>kg</b>
		R1/8	G1/8	<a href="#">0911 00 10</a>	8	13	12	0.022
		R1/4	G1/4	<a href="#">0911 00 13</a>	11	17	14	0.038
		R3/8	G3/8	<a href="#">0911 00 17</a>	11.5	20	16	0.050
		R1/2	G1/2	<a href="#">0911 00 21</a>	14	25	19	0.103


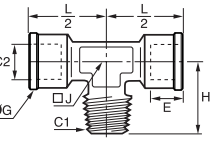

## 0915 Equal Tee, Female BSPP and Metric Thread

	<p>Nickel-plated brass</p> 	<b>C</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L/2</b>	<b>kg</b>
		M5x0.8	<a href="#">0915 00 19</a>	4	8	11	9	11	0.010
		G1/8	<a href="#">0915 00 10</a>	8	13	18.5	10	18.5	0.021
		G1/4	<a href="#">0915 00 13</a>	11	17	22.5	12	22.5	0.042
		G3/8	<a href="#">0915 00 17</a>	11.5	21	25.5	15	25.5	0.062
		G1/2	<a href="#">0915 00 21</a>	14	26	30	19	30	0.099
		G3/4	<a href="#">0915 00 27</a>	16.5	32	35.5	22	35.5	0.143
		G1	<a href="#">0915 00 34</a>	18	38.5	40	28	40	0.244

## 0923 Equal Stud Branch Tee, Female/Male Metric Thread


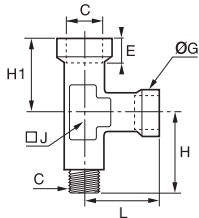

	<p>Nickel-plated brass</p> 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L/2</b>	<b>kg</b>
		M5x0.8	M5x0.8	<a href="#">0923 00 19</a>	4	8	11	9	11	0.009

## 0916 Equal Stud Branch Tee, Male BSPT/Female BSPP Thread


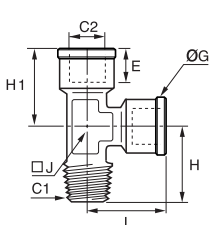

	<p>Nickel-plated brass</p> 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>L/2</b>	<b>kg</b>
		R1/8	G1/8	<a href="#">0916 00 10</a>	8	13	17	10	18.5	0.019
		R1/4	G1/4	<a href="#">0916 00 13</a>	11	17	23.5	13	22.5	0.038
		R3/8	G3/8	<a href="#">0916 00 17</a>	11.5	21	25.5	15	25.5	0.076
		R1/2	G1/2	<a href="#">0916 00 21</a>	14	26	30	19	30	0.091
		R3/4	G3/4	<a href="#">0916 00 27</a>	16.5	32	34.5	22	35.5	0.140
		R1	G1	<a href="#">0916 00 34</a>	18	38.5	40.5	28	40.5	0.237

# Nickel-Plated Brass Adaptors


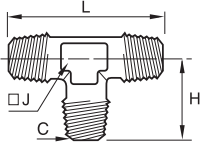

## 0924 Equal Stud Run Tee, Female/Male Metric Thread

	Nickel-plated brass		<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>kg</b>
			M5x0.8	M5x0.8	<a href="#">0924 00 19</a>	4	8	11	11	9	11	0.009


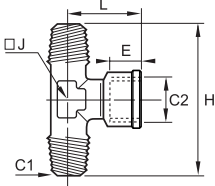

## 0917 Equal Stud Run Tee, Male BSPT/Female BSPP Thread

	Nickel-plated brass		<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>kg</b>
			R1/8	G1/8	<a href="#">0917 00 10</a>	8	13	17	18.5	10	18.5	0.025
			R1/4	G1/4	<a href="#">0917 00 13</a>	11	17	22.5	22.5	12	22.5	0.038
			R3/8	G3/8	<a href="#">0917 00 17</a>	11.5	21	25.5	25.5	15	25.5	0.058
			R1/2	G1/2	<a href="#">0917 00 21</a>	14	26	30	30	19	30	0.090
			R3/4	G3/4	<a href="#">0917 00 27</a>	16.5	32	34.5	35.5	22	35.5	0.177
			R1	G1	<a href="#">0917 00 34</a>	18	38.5	40.5	40.5	28	40.5	0.219


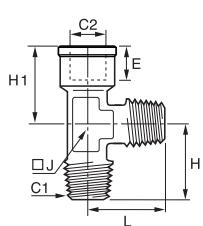

## 0927 Equal Tee, Male BSPT Thread

	Nickel-plated brass		<b>C</b>		<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
			R1/8	<a href="#">0927 00 10</a>	17	10	34	0.018
			R1/4	<a href="#">0927 00 13</a>	22.5	12	45	0.032
			R3/8	<a href="#">0927 00 17</a>	25.5	15	51	0.056
			R1/2	<a href="#">0927 00 21</a>	30	19	60	0.094
			R3/4	<a href="#">0927 00 27</a>	34.5	22	69	0.133
			R1	<a href="#">0927 00 34</a>	40.5	28	81	0.217

## 0928 Equal Stud Branch Tee, Male BSPT/Female BSPP Thread


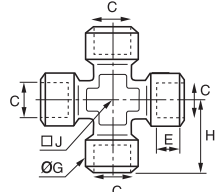

	Nickel-plated brass		<b>C1</b>	<b>C2</b>		<b>E</b>	<b>H</b>	<b>J</b>	<b>L</b>	<b>kg</b>
			R1/8	G1/8	<a href="#">0928 00 10</a>	8	34	10	18.5	0.016
			R1/4	G1/4	<a href="#">0928 00 13</a>	11	45	12	22.5	0.044
			R3/8	G3/8	<a href="#">0928 00 17</a>	11.5	51	15	25.5	0.053
			R1/2	G1/2	<a href="#">0928 00 21</a>	14	60	19	30	0.111
			R3/4	G3/4	<a href="#">0928 00 27</a>	16.5	69	22	35.5	0.236
			R1	G1	<a href="#">0928 00 34</a>	18	81	28	40.5	0.225

## 0932 Equal Stud Run Tee, Male BSPT/Female BSPP Thread


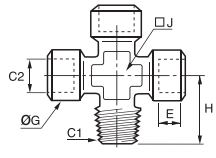

	Nickel-plated brass		<b>C1</b>	<b>C2</b>		<b>E</b>	<b>H</b>	<b>H1</b>	<b>J</b>	<b>L</b>	<b>kg</b>
			R1/8	G1/8	<a href="#">0932 00 10</a>	8	17	18.5	10	17	0.016
			R1/4	G1/4	<a href="#">0932 00 13</a>	11	22.5	22.5	12	22.5	0.035
			R3/8	G3/8	<a href="#">0932 00 17</a>	11.5	25.5	25.5	15	25.5	0.055
			R1/2	G1/2	<a href="#">0932 00 21</a>	14	30	30	19	30	0.091
			R3/4	G3/4	<a href="#">0932 00 27</a>	16.5	34.5	35.5	22	34.5	0.080
			R1	G1	<a href="#">0932 00 34</a>	18	40.5	40.5	28	40.5	0.226

# Nickel-Plated Brass Adaptors


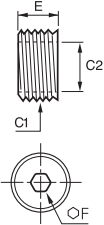

## 0908 Equal Cross, Female BSPP Thread

	Nickel-plated brass 	<b>C</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>kg</b>
		G1/8	<a href="#">0908 00 10</a>	8	13	21	10	0.038
		G1/4	<a href="#">0908 00 13</a>	11	17	25.5	13	0.073
		G3/8	<a href="#">0908 00 17</a>	11.5	21	28	17	0.107
		G1/2	<a href="#">0908 00 21</a>	14	26	33.5	21	0.189


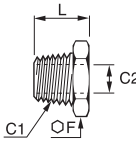

## 0909 Equal Cross, Male BSPT/Female BSPP Thread

	Nickel-plated brass 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>kg</b>
		R1/8	G1/8	<a href="#">0909 00 10</a>	8	13	18.5	10	0.034
		R1/4	G1/4	<a href="#">0909 00 13</a>	11	17	23.5	13	0.068
		R3/8	G3/8	<a href="#">0909 00 17</a>	11.5	21	26	17	0.099
		R1/2	G1/2	<a href="#">0909 00 21</a>	14	26	31	21	0.168


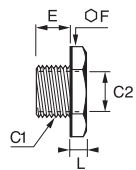

## 0903 Reducer, Male/Female BSPP Thread

	Nickel-plated brass 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>F</b>	<b>kg</b>
		G1/4	G1/8	<a href="#">0903 10 13</a>	8	6	0.004
		G3/8	G1/4	<a href="#">0903 13 17</a>	9	8	0.006
		G1/2	G3/8	<a href="#">0903 17 21</a>	10	10	0.010
		G3/4	G1/2	<a href="#">0903 21 27</a>	14	12	0.022
		G1	G3/4	<a href="#">0903 27 34</a>	20	17	0.036

## 0904 Reducer, Male BSPT/Female BSPP Thread

	Nickel-plated brass 	<b>C1</b>	<b>C2</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		R1/4	G1/8	<a href="#">0904 10 13</a>	14	16	0.010
		R3/8	G1/8	<a href="#">0904 10 17</a>	17	16.5	0.020
			G1/4	<a href="#">0904 13 17</a>	17	16.5	0.015
		R1/2	G1/4	<a href="#">0904 13 21</a>	22	19.5	0.032
			G3/8	<a href="#">0904 17 21</a>	22	19.5	0.025
		R3/4	G3/8	<a href="#">0904 17 27</a>	27	23.5	0.057
			G1/2	<a href="#">0904 21 27</a>	27	23.5	0.044


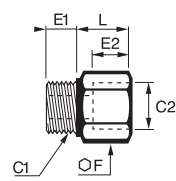

## 0905 Reducer, Male BSPP/Female BSPP and Metric Thread

	Nickel-plated brass 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
		G1/8	M5x0.8	<a href="#">0905 19 10*</a>	6	14	4.5	0.008
		G1/4	G1/8	<a href="#">0905 10 13*</a>	8	17	5	0.011
			G1/8	<a href="#">0905 10 17*</a>	9	19	5	0.019
		G3/8	G1/4	<a href="#">0905 13 17</a>	9	19	5	0.013
			G1/4	<a href="#">0905 13 21</a>	10	24	5.5	0.032
		G1/2	G3/8	<a href="#">0905 17 21</a>	10	24	5.5	0.022
			G3/8	<a href="#">0905 17 27</a>	12	30	5.5	0.053
		G3/4	G1/2	<a href="#">0905 21 27*</a>	12	30	5.5	0.041


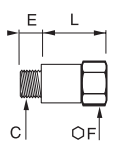

\*Please contact us for detailed drawings of threads.

# Nickel-Plated Brass Adaptors


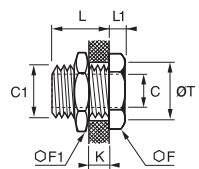

## 0906 Increaser, Male BSPF and Metric/Female BSBP Thread

	<p>Nickel-plated brass</p> 	<b>C1</b>	<b>C2</b>		<b>E1</b>	<b>E2</b>	<b>F</b>	<b>L</b>	<b>kg</b>
		M5x0.8	G1/8	<a href="#">0906 10 19</a>	4	8	14	10	0.009
			G1/8	<a href="#">0906 00 10</a>	6	8	14	10	0.011
		G1/8	G1/4	<a href="#">0906 10 13</a>	6	11	17	14	0.016
			G3/8	<a href="#">0906 10 17</a>	6	11.5	22	14.5	0.029
			G1/4	<a href="#">0906 00 13</a>	8	11	17	14	0.020
		G1/4	G3/8	<a href="#">0906 13 17</a>	8	11.5	22	14.5	0.032
			G1/2	<a href="#">0906 13 21</a>	8	15	27	18	0.037
			G3/8	<a href="#">0906 00 17</a>	9	11.5	22	14.5	0.034
		G3/8	G1/2	<a href="#">0906 17 21</a>	9	14	27	18	0.038
		G1/2	G1/2	<a href="#">0906 00 21</a>	10	14	27	18	0.054


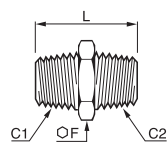

## 0907 Equal Extended Adaptor, Male/Female BSBP Thread

	<p>Nickel-plated brass</p> 	<b>C</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
		G1/8	<a href="#">0907 00 10</a>	6	14	16	0.015
			<a href="#">0907 00 10 01</a>	6	14	36	0.029
		G1/4	<a href="#">0907 00 13</a>	8	17	26	0.032
			<a href="#">0907 00 13 01</a>	8	17	43	0.046

## 0920 Bulkhead Connector, Female BSBP and Metric Thread



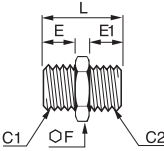
	<p>Nickel-plated brass</p> 	<b>C</b>	<b>C1</b>		<b>F</b>	<b>F1</b>	<b>K<sub>max</sub></b>	<b>L</b>	<b>L1</b>	<b>ØT</b>	<b>kg</b>
		M5x0.8	M10x1	<a href="#">0920 00 19</a>	14	14	7	10.5	3.5	10.5	0.012
		G1/8	M16x1.5	<a href="#">0920 00 10</a>	19	22	9	14	4	16.5	0.029
		G1/4	M20x1.5	<a href="#">0920 00 13</a>	24	27	15	21	4	20.5	0.056
		G3/8	M26x1.5	<a href="#">0920 00 17</a>	30	32	14	21	5	26.5	0.095
		G1/2	M28x1.5	<a href="#">0920 00 21</a>	32	36	20	27	6	28.5	0.115

## 0900 Equal and Unequal Adaptor, Male BSPT Thread



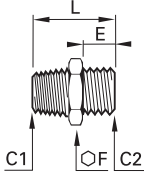
	<p>Nickel-plated brass</p> 	<b>C1</b>	<b>C2</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		R1/8	R1/8	<a href="#">0900 00 10</a>	12	19.5	0.008
			R1/4	<a href="#">0900 10 13</a>	14	23.5	0.015
			R3/8	<a href="#">0900 10 17</a>	17	24	0.020
		R1/4	R1/4	<a href="#">0900 00 13</a>	14	27	0.017
			R3/8	<a href="#">0900 13 17</a>	17	27.5	0.026
			R1/2	<a href="#">0900 13 21</a>	22	30.5	0.044
		R3/8	R3/8	<a href="#">0900 00 17</a>	17	28	0.026
			R1/2	<a href="#">0900 17 21</a>	22	31	0.046
		R1/2	R1/2	<a href="#">0900 00 21</a>	22	33.5	0.044
			R3/4	<a href="#">0900 21 27</a>	27	37.5	0.084
		R3/4	R3/4	<a href="#">0900 00 27</a>	27	40	0.079
			R1	<a href="#">0900 27 34</a>	34	43	0.144
		R1	R1	<a href="#">0900 00 34</a>	34	45.5	0.153

# Nickel-Plated Brass Adaptors



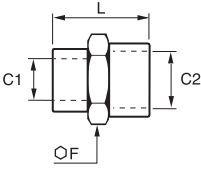
## 0901 Equal and Unequal Adaptor, Male BSPP and Metric Thread

Nickel-plated brass		C1	C2		E	E1	F	L	kg
		M5x0.8	M5x0.8	<a href="#">0901 00 19</a>	4	4	8	11.5	0.002
		G1/8	G1/8	<a href="#">0901 19 10</a>	4	6	14	14.5	0.008
		G1/8	G1/8	<a href="#">0901 00 10</a>	6	6	14	16.5	0.009
		G1/4	G1/4	<a href="#">0901 10 13</a>	6	8	17	19	0.016
		G1/4	G1/4	<a href="#">0901 00 13</a>	8	8	17	21	0.019
		G3/8	G3/8	<a href="#">0901 13 17</a>	8	9	19	22	0.023
		G3/8	G3/8	<a href="#">0901 00 17</a>	9	9	19	23	0.025
		G1/2	G1/2	<a href="#">0901 17 21</a>	9	10	24	24.5	0.038
		G1/2	G1/2	<a href="#">0901 00 21</a>	10	10	24	25.5	0.041



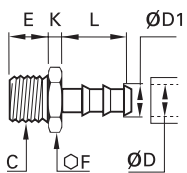
## 0192 Unequal Straight Adaptor, Male BSPT/BSPP Thread

Nickel-plated brass		C1	C2		E	F	L	kg
		R1/8	G1/4	<a href="#">0192 10 13</a>	9.5	17	23.5	0.019
		R1/4	G1/4	<a href="#">0192 13 13</a>	9.5	17	27.5	0.024
		R1/4	G1/2	<a href="#">0192 13 21</a>	11	27	31.5	0.068
		R3/8	G1/4	<a href="#">0192 17 13</a>	9.5	17	28	0.025
		R3/8	G1/2	<a href="#">0192 17 21</a>	11	27	31.5	0.061
		R1/2	G1/2	<a href="#">0192 21 21</a>	11	27	34	0.061

## 0902 Equal and Unequal Adaptor, Female BSPP and Metric Thread

Nickel-plated brass		C1	C2		F	L	kg
		M5x0.8	M5x0.8	<a href="#">0902 00 19</a>	8	11	0.003
		G1/8	G1/8	<a href="#">0902 19 10</a>	14	13	0.009
		G1/8	G1/8	<a href="#">0902 00 10</a>	14	15	0.010
		G1/8	G1/4	<a href="#">0902 10 13</a>	17	19.5	0.017
		G1/8	G3/8	<a href="#">0902 10 17</a>	22	20	0.028
		G1/4	G1/4	<a href="#">0902 00 13</a>	17	22	0.019
		G1/4	G3/8	<a href="#">0902 13 17</a>	22	23	0.031
		G1/4	G1/2	<a href="#">0902 13 21</a>	27	27	0.033
		G3/8	G3/8	<a href="#">0902 00 17</a>	22	24	0.034
		G3/8	G1/2	<a href="#">0902 17 21</a>	27	27.5	0.037
		G1/2	G1/2	<a href="#">0902 00 21</a>	27	30	0.050
		G1/2	G3/4	<a href="#">0902 21 27</a>	30	30	0.077
		G3/4	G3/4	<a href="#">0902 00 27</a>	30	32	0.080

## 0191 Tailpiece Adaptor for Rubber Hose, Male BSPP Thread

Nickel-plated brass		ØD	ØD1	C		E	F	K	L	kg
		4	6	G1/4	<a href="#">0191 04 13</a>	9.5	17	5	22.5	0.019
		7	9	G1/4	<a href="#">0191 07 13</a>	9.5	17	5	22.5	0.022
		7	9	G1/2	<a href="#">0191 07 21</a>	11	27	7	29.5	0.065
		10	12.2	G1/4	<a href="#">0191 10 13</a>	9.5	17	5	22.5	0.020
		10	12.2	G1/2	<a href="#">0191 10 21</a>	11	27	7	29.5	0.061
		13	15.2	G1/4	<a href="#">0191 13 13</a>	9.5	17	5	22.5	0.022
		13	15.2	G1/2	<a href="#">0191 13 21</a>	11	27	7	29.5	0.058
		16	18.5	G1/2	<a href="#">0191 16 21</a>	11	27	7	36.5	0.067



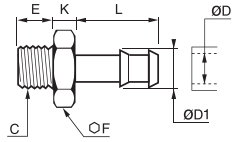
# Nickel-Plated Brass Adaptors


**0931**

Tailpiece Adaptor for Rubber Hose, Male BSPP Thread



Nickel-plated brass



ØD	ØD1	C		E	F	K	L	kg
6	7	G1/8	<a href="#">0931 06 10</a>	6	12	4	20	0.009
	7	G1/4	<a href="#">0931 06 13</a>	8	14	5	20	0.013
7	8	G1/8	<a href="#">0931 07 10</a>	6	12	4	20	0.009
	8	G1/4	<a href="#">0931 07 13</a>	8	14	5	20	0.013
8	8	G3/8	<a href="#">0931 07 17</a>	9	19	5	20	0.022
	9	G1/8	<a href="#">0931 08 10</a>	6	12	4	20	0.009
8	9	G1/4	<a href="#">0931 08 13</a>	8	14	5	20	0.014
	9	G3/8	<a href="#">0931 08 17</a>	9	19	5	20	0.022
10	12	G1/4	<a href="#">0931 10 13</a>	8	14	5	20	0.016
	12	G3/8	<a href="#">0931 10 17</a>	9	19	5	20	0.024
15	12	G1/2	<a href="#">0931 10 21</a>	10	22	6	22	0.031
	17	G3/8	<a href="#">0931 15 17</a>	9	19	6	24	0.030
18	17	G1/2	<a href="#">0931 15 21</a>	10	22	6	24	0.037
	20	G1/2	<a href="#">0931 18 21</a>	10	22	6	24	0.039

# Stainless Steel Adaptors

## 1844 Equal Stud Elbow, Male BSPT/Female BSPP Thread

Stainless steel 316L		C1 C2			E	G	H	J	L	kg
		R1/8	G1/8	<a href="#">1844 10 10</a>	7.5	15	20.5	10	22.5	0.022
		R1/4	G1/4	<a href="#">1844 13 13</a>	12	18.5	27.5	12	26.5	0.044
		R3/8	G3/8	<a href="#">1844 17 17</a>	12	23.5	28	14	30	0.067
		R1/2	G1/2	<a href="#">1844 21 21</a>	15	28	38	18	38	0.114
		R3/4	G3/4	<a href="#">1844 27 27</a>	16.5	33	41	22	44.5	0.154
		R1	G1	<a href="#">1844 34 34</a>	19	40	48	32	50	0.312

## 1843 Equal Elbow, Female BSPP Thread

Stainless steel 316L		C			E	G	J	L	kg
		G1/8	<a href="#">1843 10 10</a>		7.5	17.5	12	22.5	0.041
		G1/4	<a href="#">1843 13 13</a>		11	18.5	15	26.5	0.055
		G3/8	<a href="#">1843 17 17</a>		11.5	23.5	18	29	0.076
		G1/2	<a href="#">1843 21 21</a>		15	28	23	38	0.159
		G3/4	<a href="#">1843 27 27</a>		16.5	33	22	43.5	0.232
		G1	<a href="#">1843 34 34</a>		19	40	32	52	0.444

## 1845 Equal Tee, Female BSPP Thread

Stainless steel 316L		C			E	G	H	J	L/2	kg
		G1/8	<a href="#">1845 10 10</a>		7.5	17.5	22.5	12	22.5	0.060
		G1/4	<a href="#">1845 13 13</a>		11	18.5	26.5	15	26.5	0.078
		G3/8	<a href="#">1845 17 17</a>		11.5	23.5	29	18	29	0.100
		G1/2	<a href="#">1845 21 21</a>		15	28	38	23	38	0.221
		G3/4	<a href="#">1845 27 27</a>		16.5	33	43.5	22	43.5	0.301
		G1	<a href="#">1845 34 34</a>		19	40	50	32	50	0.457

## 1817 Equal Bulkhead Adaptor, Female BSPP Thread


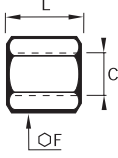

Stainless steel 316L		C			F	F1	K <sub>max</sub>	L	L1	ØT <sub>min</sub>	kg
		G1/8	<a href="#">1817 00 10</a>		19	22	9	14	4	16.5	0.030
		G1/4	<a href="#">1817 00 13</a>		24	27	15	21	4	20.5	0.053
		G3/8	<a href="#">1817 00 17</a>		30	32	14	21	5	26.5	0.091
		G1/2	<a href="#">1817 00 21</a>		32	36	20	27	6	28.5	0.109
		G3/4	<a href="#">1817 00 27</a>		41	41	22.5	30	6	34.5	0.152
		G1	<a href="#">1817 00 34</a>		46	50	24.5	34	8	42.5	0.252

## 1871 Equal Bulkhead Adaptor, Female NPT Thread


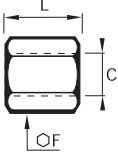

Stainless steel 316L		C			F	F1	K <sub>max</sub>	L	L1	ØT <sub>min</sub>	kg
		NPT1/8	<a href="#">1871 00 11</a>		19	22	9	14	5	16.5	0.032
		NPT1/4	<a href="#">1871 00 14</a>		24	22	9	14	5	16.5	0.060
		NPT3/8	<a href="#">1871 00 18</a>		30	32	18	23	5	26.5	0.096
		NPT1/2	<a href="#">1871 00 22</a>		32	36	22	29	6	28.5	0.120

# Stainless Steel Adaptors


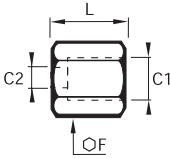

## 1855 Equal Connector, Female BSPP Thread

	Stainless steel 316L 	<b>C</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		G1/8	<a href="#">1855 10 10</a>	14	17	0.013
		G1/4	<a href="#">1855 13 13</a>	17	24	0.024
		G3/8	<a href="#">1855 17 17</a>	22	25	0.042
		G1/2	<a href="#">1855 21 21</a>	27	32	0.078
		G3/4	<a href="#">1855 27 27</a>	14	35	0.102
		G1	<a href="#">1855 34 34</a>	41	40	0.202


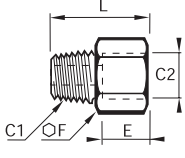

## 1870 Equal Connector, Female NPT Thread

	Stainless steel 316L 	<b>C</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		NPT1/8	<a href="#">1870 11 11</a>	14	19	0.015
		NPT1/4	<a href="#">1870 14 14</a>	17	28	0.029
		NPT3/8	<a href="#">1870 18 18</a>	22	28	0.050
		NPT1/2	<a href="#">1870 22 22</a>	27	35	0.093


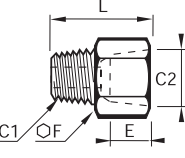

## 1862 Reducer Connector, Female BSPP Thread

	Stainless steel 316L 	<b>C1</b>	<b>C2</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		G1/4	G1/8	<a href="#">1862 13 10</a>	17	20.5	0.024
		G3/8	G1/8	<a href="#">1862 17 10</a>	22	21	0.043
			G1/4	<a href="#">1862 17 13</a>	22	24.5	0.049
		G1/2	G1/4	<a href="#">1862 21 13</a>	27	28.5	0.086
			G3/8	<a href="#">1862 21 17</a>	27	29	0.080
		G3/4	G1/2	<a href="#">1862 27 21</a>	32	39.5	0.144
		G1	G3/4	<a href="#">1862 34 27</a>	41	45	0.280

## 1864 Adaptor, Male NPT/Female BSPP Thread



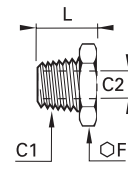
	Stainless steel 316L 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
		NPT1/8	G1/8	<a href="#">1864 11 10</a>	7.5	14	21.5	0.015
		NPT1/4	G1/4	<a href="#">1864 14 13</a>	11	17	30	0.028
		NPT3/8	G3/8	<a href="#">1864 18 17</a>	11.5	22	31	0.043
		NPT1/2	G1/2	<a href="#">1864 22 21</a>	15	27	39.5	0.080

## 1867 Adaptor, Male BSPT/Female NPT Thread



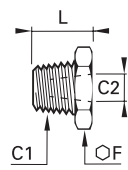
	Stainless steel 316L 	<b>C1</b>	<b>C2</b>		<b>E</b>	<b>F</b>	<b>L</b>	<b>kg</b>
		R1/8	NPT1/8	<a href="#">1867 10 11</a>	8	14	21	0.015
		R1/4	NPT1/4	<a href="#">1867 13 14</a>	11.5	17	28.5	0.028
		R3/8	NPT3/8	<a href="#">1867 17 18</a>	12	22	29.5	0.044
		R1/2	NPT1/2	<a href="#">1867 21 22</a>	15.5	27	37.5	0.083

# Stainless Steel Adaptors



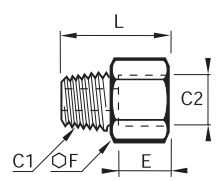
## 1863 Reducer, Male BSPT/Female BSPP Thread

Image	Stainless steel 316L	C1	C2		F	L	kg
		R1/4	G1/8	<a href="#">1863 13 10</a>	14	16	0.008
		R3/8	G1/8	<a href="#">1863 17 10</a>	17	16.5	0.019
			G1/4	<a href="#">1863 17 13</a>	17	16.5	0.011
		R1/2	G1/4	<a href="#">1863 21 13</a>	22	21	0.036
			G3/8	<a href="#">1863 21 17</a>	22	21	0.023
		R3/4	G1/2	<a href="#">1863 27 21</a>	27	25.5	0.045
		R1	G3/4	<a href="#">1863 34 27</a>	36	28.5	0.083



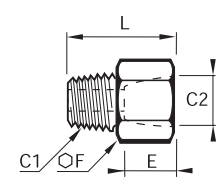
## 1872 Reducer, Male/Female NPT Thread

Image	Stainless steel 316L	C1	C2		F	L	kg
		NPT1/4	NPT1/8	<a href="#">1872 14 11</a>	14	16	0.010
		NPT3/8	NPT1/8	<a href="#">1872 18 11</a>	19	16.5	0.023
			NPT1/4	<a href="#">1872 18 14</a>	19	16.5	0.016
		NPT1/2	NPT1/4	<a href="#">1872 22 14</a>	22	21	0.039
			NPT3/8	<a href="#">1872 22 18</a>	22	21	0.028



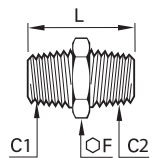
## 1861 Increaser, Male BSPT/Female BSPP Thread

Image	Stainless steel 316L	C1	C2		E	F	L	kg
		R1/8	G1/4	<a href="#">1861 10 13</a>	11	17	24	0.022
			G3/8	<a href="#">1861 10 17</a>	11.5	22	25	0.038
		R1/4	G3/8	<a href="#">1861 13 17</a>	11.5	22	28.5	0.042
			G1/2	<a href="#">1861 13 21</a>	15	27	32.5	0.068
		R3/8	G1/2	<a href="#">1861 17 21</a>	15	27	33	0.070
		R1/2	G3/4	<a href="#">1861 21 27</a>	16.5	32	38	0.093
		R3/4	G1	<a href="#">1861 27 34</a>	19	41	43.5	0.182

## 1873 Increaser, Male/Female NPT Thread


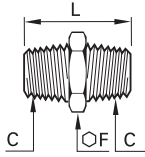

Image	Stainless steel 316L	C1	C2		E	F	L	kg
		NPT1/8	NPT1/4	<a href="#">1873 11 14</a>	14	17	25	0.024
			NPT3/8	<a href="#">1873 11 18</a>	14	22	25	0.039
		NPT1/4	NPT3/8	<a href="#">1873 14 18</a>	14	22	28.5	0.042
			NPT1/2	<a href="#">1873 14 22</a>	17.5	27	31	0.065
		NPT3/8	NPT1/2	<a href="#">1873 18 22</a>	17.5	27	31.5	0.066

## 1821 Equal and Unequal Adaptor, Male BSPT Thread


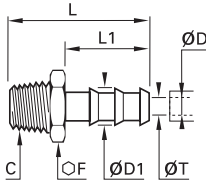

Image	Stainless steel 316L	C1	C2		F	L	kg
		R1/8	R1/8	<a href="#">1821 10 10</a>	12	19	0.009
			R1/4	<a href="#">1821 13 10</a>	14	23.5	0.016
		R1/4	R1/4	<a href="#">1821 13 13</a>	14	27	0.019
			R1/4	<a href="#">1821 17 13</a>	17	27.5	0.024
		R3/8	R3/8	<a href="#">1821 17 17</a>	17	28	0.024
			R3/8	<a href="#">1821 21 17</a>	22	32.5	0.042
		R1/2	R1/2	<a href="#">1821 21 21</a>	22	36	0.048
			R1/2	<a href="#">1821 27 21</a>	27	41	0.079
		R3/4	R3/4	<a href="#">1821 27 27</a>	27	42	0.088
			R3/4	<a href="#">1821 34 27</a>	36	46	0.141
		R1	R1	<a href="#">1821 34 34</a>	36	48	0.146

# Stainless Steel Adaptors


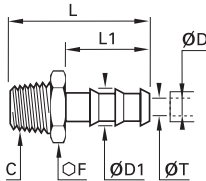

## 1821 Equal Adaptor, Male NPT Thread

	<p>Stainless steel 316L</p> 	<b>C</b>		<b>F</b>	<b>L</b>	<b>kg</b>
		NPT1/8	<a href="#">1821 11 11</a>	12	23	0.011
		NPT1/4	<a href="#">1821 14 14</a>	14	32	0.023
		NPT3/8	<a href="#">1821 18 18</a>	19	33	0.031
		NPT1/2	<a href="#">1821 22 22</a>	22	42	0.057
		NPT3/4	<a href="#">1821 28 28</a>	27	40	0.082
		NPT1	<a href="#">1821 35 35</a>	36	46	0.138

## 1823 Tailpipe Adaptor for Rubber Hose, Male BSPT Thread

	<p>Stainless steel 316L</p> 	<b>ØD</b>	<b>ØD1</b>	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>ØT</b>	<b>kg</b>
		7	9	R1/8	<a href="#">1823 07 10</a>	10	34	22.5	5	0.009
		9	R1/4	<a href="#">1823 07 13</a>	14	38.5	22.5	6	0.016	
		10	12.2	R1/4	<a href="#">1823 10 13</a>	14	38.5	22.5	7	0.018
		10	12.2	R3/8	<a href="#">1823 10 17</a>	17	39	22.5	9.5	0.021
		13	15	R3/8	<a href="#">1823 13 17</a>	17	46	29.5	11	0.025
		16	18.5	R1/2	<a href="#">1823 16 21</a>	22	59	38	14	0.050

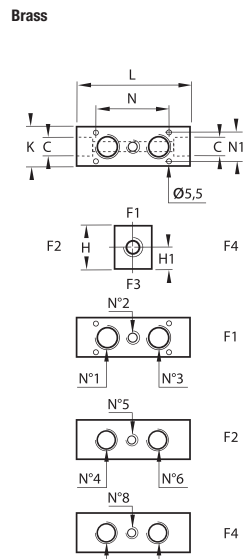
## 1823 Tailpipe Adaptor for Rubber Hose, Male NPT Thread

	<p>Stainless steel 316L</p> 	<b>ØD</b>	<b>ØD1</b>	<b>C</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>ØT</b>	<b>kg</b>
		1/4	8.3	NPT1/8	<a href="#">1823 56 11</a>	12	34	22.5	5.3	0.010
		1/4	8.3	NPT1/4	<a href="#">1823 56 14</a>	14	38.5	22.5	5.3	0.016
		1/8	11.7	NPT1/4	<a href="#">1823 60 14</a>	14	38.5	22.5	8.5	0.018
		1/8	11.7	NPT3/8	<a href="#">1823 60 18</a>	19	39	22.5	8.5	0.026

# Brass Manifolds

**0135**

Manifold Block, Female BSP Thread



	<b>C</b>		<b>H</b>	<b>H1</b>	<b>K</b>	<b>L</b>	<b>N</b>	<b>N1</b>	<b>kg</b>
G1/4	<a href="#">0135 06 13</a>		30	13	25	70	37	17	0.329
	<a href="#">0135 09 13</a>		30	13	25	87	54	17	0.409
G1/2	<a href="#">0135 06 21</a>		40	16	35	86	45	27	0.714
	<a href="#">0135 09 21</a>		40	16	35	109	68	27	0.899
G3/4	<a href="#">0135 10 27</a>		45	21	40	122	78	32	1.232


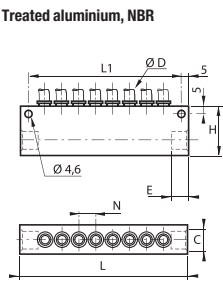

This product is designed to distribute in several directions.  
The number of ports can be increased by using tee pieces, cross pieces or double banjo couplings.

## Installation Options


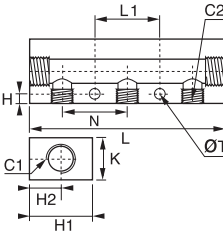

	F1			F2				F4				
	Number of Outlets	N°1	N°2	N°3	Number of Outlets	N°4	N°5	N°6	Number of Outlets	N°7	N°8	N°9
<a href="#">0135 06 13</a>	1		G1/4		2	G1/8		G1/8	2	G1/8		G1/8
<a href="#">0135 09 13</a>	2	G1/4		G1/4	3	G1/8	G1/8	G1/8	3	G1/8	G1/8	G1/8
<a href="#">0135 06 21</a>	1		G1/2		2	G1/4		G1/4	2	G1/8		G1/8
<a href="#">0135 09 21</a>	2	G1/2		G1/2	3	G1/4	G1/4	G1/4	3	G1/8	G1/8	G1/8
<a href="#">0135 10 27</a>	3	G1/2	G1/8	G1/2	3	G1/8	G1/8	G1/8	3	G1/4	G1/8	G1/4

# Anodised Aluminium Manifolds


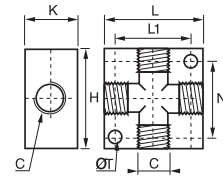

## 3310 In-Line Manifold

	Treated aluminium, NBR			<b>ØD</b>	<b>C</b>		<b>Number of Outlets</b>	<b>E</b>	<b>H</b>	<b>L</b>	<b>L1</b>	<b>N</b>	<b>kg</b>
	4	G1/4		<a href="#">3310 04 13</a>	8		10	33	114	104	11.5	0.175	
	6	G1/4		<a href="#">3310 06 13</a>	8		10	33	114	104	12.5	0.169	
	8	G3/8		<a href="#">3310 08 17</a>	6		12	33	114	104	15	0.156	
	10	G1/2		<a href="#">3310 10 21</a>	6		14	48	130	119.5	17	0.348	
	12	G1/2		<a href="#">3310 12 21</a>	6		14	45	117	107	20.5	0.370	


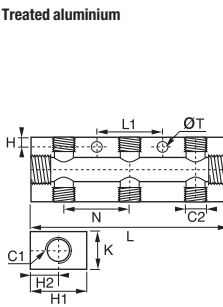

## 3311 Manifold, Female BSPP and Metric Thread

	Treated aluminium			<b>C1</b>	<b>C2</b>		<b>Number of Outlets</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>K</b>	<b>L</b>	<b>L1</b>	<b>N</b>	<b>ØT</b>	<b>kg</b>
	G1/8	M5x0.8		<a href="#">3311 19 10 07</a>	7		3.5	20	8.5	15	95	80	11	4.4	0.067	
	G1/8			<a href="#">3311 10 13 02</a>	2		4.5	30	15	20	61	50	30	5	0.079	
	G1/8			<a href="#">3311 10 13 03</a>	3		4.5	30	15	20	91	30	30	5	0.121	
	G1/4	G1/8			<a href="#">3311 10 13 04</a>		4	4.5	30	15	20	121	60	30	5	0.165
		G1/8			<a href="#">3311 10 13 05</a>		5	4.5	30	15	20	151	90	30	5	0.209
		G1/8			<a href="#">3311 10 13 06</a>		6	4.5	30	15	20	181	120	30	5	0.244
	G1/4	G1/4			<a href="#">3311 13 17 02</a>		2	5.5	30	11	20	74	61	36	6.5	0.076
		G1/4			<a href="#">3311 13 17 03</a>		3	6	30	11	20	110	36	36	6.5	0.121
		G1/4			<a href="#">3311 13 17 04</a>		4	6	30	11	20	146	72	36	6.5	0.144
	G3/8	G1/4			<a href="#">3311 13 17 05</a>		5	6	30	11	20	182	108	36	6.5	0.212
		G1/4			<a href="#">3311 13 17 06</a>		6	6	30	11	20	218	144	36	6.5	0.265

## 3312 Cross Manifold, Female BSPP and Metric Thread

	Treated aluminium			<b>C</b>		<b>H</b>	<b>K</b>	<b>L</b>	<b>L1</b>	<b>N</b>	<b>ØT</b>	<b>kg</b>
	M5x0.8	<a href="#">3312 00 19</a>		20		10	20	12	12	4.5	0.010	
	G1/8	<a href="#">3312 00 10</a>		30		16	30	23	22	4.5	0.029	
	G1/4	<a href="#">3312 00 13</a>		40		20	40	30	27	5.5	0.066	
	G3/8	<a href="#">3312 00 17</a>		50		25	50	38	39	6.5	0.126	
	G1/2	<a href="#">3312 00 21</a>		50		25	50	38	39	6.5	0.101	

## 3313 Double Manifold, Female BSPP Thread

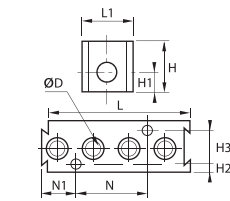
	Treated aluminium			<b>C1</b>	<b>C2</b>		<b>Number of Outlets</b>	<b>H</b>	<b>H1</b>	<b>H2</b>	<b>K</b>	<b>L</b>	<b>L1</b>	<b>N</b>	<b>ØT</b>	<b>kg</b>
	G1/4	G1/8			<a href="#">3313 10 13 02</a>		2x2	4.5	30	15	20	61	50	30	5	0.075
		G1/8			<a href="#">3313 10 13 03</a>		2x3	4.5	30	15	20	91	30	30	5	0.115
		G1/8			<a href="#">3313 10 13 04</a>		2x4	4.5	30	15	20	121	60	30	5	0.151
	G1/4	G1/8			<a href="#">3313 10 13 05</a>		2x5	4.5	30	15	20	151	90	30	5	0.194
		G1/4			<a href="#">3313 13 17 02</a>		2x2	6	40	20	20	74	61	36	6.5	0.109
		G1/4			<a href="#">3313 13 17 03</a>		2x3	6	40	20	20	110	36	36	6.5	0.179
	G3/8	G1/4			<a href="#">3313 13 17 04</a>		2x4	6	40	20	20	146	72	36	6.5	0.238
		G1/4			<a href="#">3313 13 17 05</a>		2x5	6	40	20	20	182	108	36	6.5	0.286
		G1/4			<a href="#">3313 13 21 03</a>		2x3	6	40	20	28	116	36	36	6.5	0.222
	G1/2	G1/4			<a href="#">3313 13 21 04</a>		2x4	6	40	20	28	152	72	36	6.5	0.295
		G1/4			<a href="#">3313 13 21 05</a>		2x5	6	40	20	28	188	108	36	6.5	0.369

# Anodised Aluminium Manifolds

## 3301 Modular Manifold



Treated aluminium, NBR



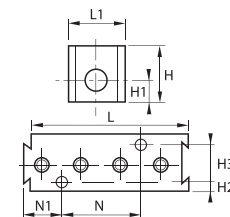
ØD		Number of Outlets	H	H1	H2	H3	L	L1	N	N1	kg
4	<a href="#">3301 04 00</a>	8	25	10	4.5	16	73.5	25	35	17	0.105
6	<a href="#">3301 06 00</a>	4	25	10	4.5	16	73.5	25	35	17	0.108

Fixing with screw M3x20

## 3301 Manifold, Female BSPP Thread



Treated aluminium, NBR



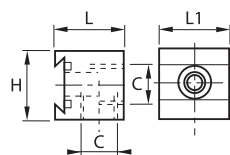
C		Number of Outlets	H	H1	H2	H3	L	L1	N	N1	kg
G1/8	<a href="#">3301 07 10</a>	4	25	10	4.5	16	73.5	25	35	17	0.097

Fixing with screw M3x20  
NPT available on request

## 3302 Single Manifold, Female BSPP Thread



Treated aluminium, NBR



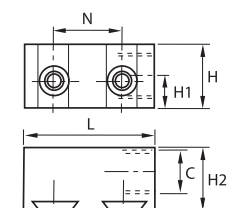
C		H	L	L1	kg
G1/4	<a href="#">3302 01 13</a>	25	24.5	25	0.030
	<a href="#">3302 01 13 01</a>	25	24.5	25	0.031

3302 01 13: side entry thread  
3302 01 13 01: rear entry thread  
NPT available on request

## 3302 Double Manifold, Female BSPP Thread



Treated aluminium, NBR



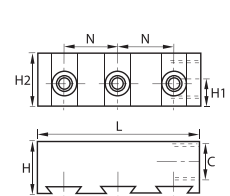
C		H	H1	H2	L	N	kg
G3/8	<a href="#">3302 02 17</a>	25	12.5	24.5	51	26	0.061

Side entry thread  
NPT available on request

## 3302 Triple Manifold, Female BSPP Thread



Treated aluminium, NBR




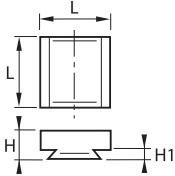

C		H	H1	H2	L	N	kg
G3/8	<a href="#">3302 03 17</a>	25	12.5	25	77	26	0.087

Side entry thread  
NPT available on request


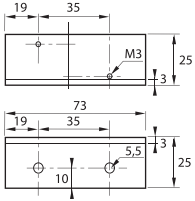



# Anodised Aluminium Manifolds

## 3303 End Plate for Manifold


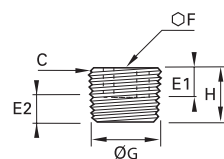

	<p>Treated aluminium</p> 		<b>H</b>	<b>H1</b>	<b>L</b>	<b>kg</b>
			3303 00 01	9.5	3.5	25

## 3303 Angled Fixing Plate


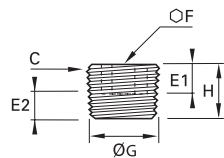

	<p>Treated aluminium</p> 					<b>kg</b>
			3303 00 02			

# Brass Plugs


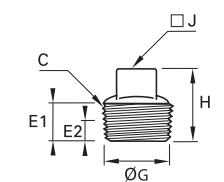

## 0205 Internal Hexagon Head Plug, Male BSPT Thread

	Brass 	<b>C</b>		<b>E1</b>	<b>E2 min</b>	<b>E2 max</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		R1/8	<a href="#">0205 10 00</a>	6	3.1	4.9	5	9.7	8	0.003
		R1/4	<a href="#">0205 13 00</a>	8	4.7	7.3	6	13.2	10	0.007
		R3/8	<a href="#">0205 17 00</a>	8	5.1	7.7	8	16.7	11	0.013
		R1/2	<a href="#">0205 21 00</a>	8	6.4	10	10	21	13	0.026
		R3/4	<a href="#">0205 27 00</a>	11	7.7	11.3	14	26.4	17	0.054
		R1	<a href="#">0205 34 00</a>	13	8.1	12.7	17	33.2	19	0.094
		R1¼	<a href="#">0205 42 00</a>	14	10.4	15	22	41.9	22	0.176
		R1½	<a href="#">0205 49 00</a>	14	10.4	15	24	47.8	22	0.246
		R2	<a href="#">0205 48 00</a>	16	13.6	18.2	30	59.6	25	0.431
For BSPT plug from 1/2" - 1½" inclusive: Conforms to DIN 906 Thread: EN 10226-1										


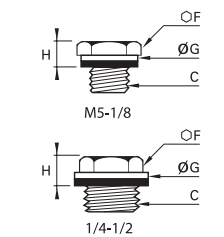

## 0205 Internal Hexagon Head Plug, Male NPT Thread

	Brass 	<b>C</b>		<b>E1</b>	<b>E2 min</b>	<b>E2 max</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		NPT1/8	<a href="#">0205 11 00</a>	6	3.2	5	5	10.2	8	0.003
		NPT1/4	<a href="#">0205 14 00</a>	8	4.4	7.2	6	13.6	10	0.008
		NPT3/8	<a href="#">0205 18 00</a>	8	4.7	7.5	8	17	11	0.014
		NPT1/2	<a href="#">0205 22 00</a>	8	6.3	9.9	10	21.2	13	0.026
		NPT3/4	<a href="#">0205 28 00</a>	11	6.8	10.4	14	26.6	17	0.052
		NPT1	<a href="#">0205 35 00</a>	13	8	12.4	17	33.2	19	0.091


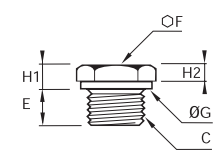

## 0209 Square Head Plug, Male BSPT Thread

	Brass 	<b>C</b>		<b>E1</b>	<b>E2 min</b>	<b>E2 max</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>kg</b>
		R1/8	<a href="#">0209 10 00</a>	6	3.1	4.9	9.7	16	6	0.007
		R1/4	<a href="#">0209 13 00</a>	8	4.7	7.3	13.2	18	8	0.014
		R3/8	<a href="#">0209 17 00</a>	10	5.1	7.7	16.7	20	10	0.025
		R1/2	<a href="#">0209 21 00</a>	11	6.4	10	21	22	13	0.047
		R3/4	<a href="#">0209 27 00</a>	15	7.7	11.3	26.4	28	17	0.097
		R1	<a href="#">0209 34 00</a>	18	8.1	12.7	33.2	32	19	0.170
Conforms to DIN 906 Thread: EN 10226-1										

## 0220 Hex Head Plug, Male BSPP and Metric Thread

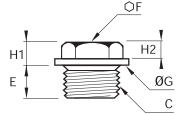


	Brass, technical polymer 	<b>C</b>		<b>F</b>	<b>G</b>	<b>H1</b>	<b>kg</b>
		M5x0.8	<a href="#">0220 19 00</a>	8	8	5	0.002
		G1/8	<a href="#">0220 10 00</a>	14	14	7.5	0.011
		G1/4	<a href="#">0220 13 00</a>	17	17	7.5	0.019
		G3/8	<a href="#">0220 17 00</a>	17	22	8.5	0.024
		G1/2	<a href="#">0220 21 00</a>	22	27	10	0.040
Pre-assembled polyamide washer M5: with screwdriver slot for tightening Maximum allowable working pressure = 20 bar Part number with suffix 99, maximum allowable working pressure = 250 bar, example: 0220 19 00 99 Conforms to BNA 229 (with the exception of M5 model), BSPP thread, ISO ISO 228-1, Parallel, metric thread, ISO NFE 03-054							

## 0200 Hex Head Plug, Male BSPP and Metric Thread

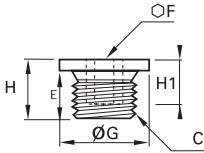


	Brass 	<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H1</b>	<b>H2</b>	<b>kg</b>
		M6x1	<a href="#">0200 52 00</a>	6	10	10	4	3.5	0.004
		M8x1.25	<a href="#">0200 57 00</a>	7	13	13	4	3.5	0.007
		M10x1	<a href="#">0200 60 00</a>	8	14	14	5	4.5	0.011
		M12x1	<a href="#">0200 65 00</a>	9	17	17	5	4.5	0.018
		M12x1.25	<a href="#">0200 66 00</a>	9	17	17	5	4.5	0.017
		G1/8	<a href="#">0200 10 00</a>	7	14	13.7	5.5	4	0.011
		G1/4	<a href="#">0200 13 00</a>	8.5	17	16.7	5.5	4	0.019

# Brass Plugs

## 0201 Hex Head Plug with Collar, Male BSPP and Metric Thread

	Brass		C		E	F	G	H1	H2	kg																																																																																							
					<table border="1"> <tr><td>M16x1.5</td><td>0201 75 00</td><td>10</td><td>17</td><td>22</td><td>6.5</td><td>5</td><td>0.025</td></tr> <tr><td>M18x1.5</td><td>0201 78 00</td><td>10</td><td>17</td><td>24</td><td>7</td><td>5</td><td>0.026</td></tr> <tr><td>M20x1.5</td><td>0201 80 00</td><td>10</td><td>17</td><td>26</td><td>7.5</td><td>5</td><td>0.031</td></tr> <tr><td>M22x1.5</td><td>0201 82 00</td><td>10</td><td>22</td><td>30</td><td>7.5</td><td>5</td><td>0.044</td></tr> <tr><td>M24x1.5</td><td>0201 83 00</td><td>10</td><td>22</td><td>32</td><td>7.5</td><td>5</td><td>0.046</td></tr> <tr><td>M24x2</td><td>0201 92 00</td><td>10</td><td>22</td><td>32</td><td>7.5</td><td>5</td><td>0.046</td></tr> <tr><td>M30x2</td><td>0201 88 00</td><td>11</td><td>27</td><td>38</td><td>8.5</td><td>6</td><td>0.075</td></tr> <tr><td>G3/8</td><td>0201 17 00</td><td>10</td><td>17</td><td>21.7</td><td>6.5</td><td>4.5</td><td>0.024</td></tr> <tr><td>G1/2</td><td>0201 21 00</td><td>10</td><td>22</td><td>26.7</td><td>7.5</td><td>5</td><td>0.041</td></tr> <tr><td>G3/4</td><td>0201 27 00</td><td>11</td><td>22</td><td>31.7</td><td>8.5</td><td>6</td><td>0.057</td></tr> <tr><td>G1</td><td>0201 34 00</td><td>11</td><td>27</td><td>39.7</td><td>8.5</td><td>6</td><td>0.087</td></tr> <tr><td>G1¼</td><td>0201 42 00</td><td>12</td><td>30</td><td>49.7</td><td>10</td><td>7</td><td>0.142</td></tr> </table>	M16x1.5	0201 75 00	10	17	22	6.5	5	0.025	M18x1.5	0201 78 00	10	17	24	7	5	0.026	M20x1.5	0201 80 00	10	17	26	7.5	5	0.031	M22x1.5	0201 82 00	10	22	30	7.5	5	0.044	M24x1.5	0201 83 00	10	22	32	7.5	5	0.046	M24x2	0201 92 00	10	22	32	7.5	5	0.046	M30x2	0201 88 00	11	27	38	8.5	6	0.075	G3/8	0201 17 00	10	17	21.7	6.5	4.5	0.024	G1/2	0201 21 00	10	22	26.7	7.5	5	0.041	G3/4	0201 27 00	11	22	31.7	8.5	6	0.057	G1	0201 34 00	11	27	39.7	8.5	6	0.087	G1¼	0201 42 00	12	30
M16x1.5	0201 75 00	10	17	22	6.5	5	0.025																																																																																										
M18x1.5	0201 78 00	10	17	24	7	5	0.026																																																																																										
M20x1.5	0201 80 00	10	17	26	7.5	5	0.031																																																																																										
M22x1.5	0201 82 00	10	22	30	7.5	5	0.044																																																																																										
M24x1.5	0201 83 00	10	22	32	7.5	5	0.046																																																																																										
M24x2	0201 92 00	10	22	32	7.5	5	0.046																																																																																										
M30x2	0201 88 00	11	27	38	8.5	6	0.075																																																																																										
G3/8	0201 17 00	10	17	21.7	6.5	4.5	0.024																																																																																										
G1/2	0201 21 00	10	22	26.7	7.5	5	0.041																																																																																										
G3/4	0201 27 00	11	22	31.7	8.5	6	0.057																																																																																										
G1	0201 34 00	11	27	39.7	8.5	6	0.087																																																																																										
G1¼	0201 42 00	12	30	49.7	10	7	0.142																																																																																										

## 0202 Internal Hexagon Head Plug with Collar, Male Metric Thread

	Brass		C		E	F	G	H	H1	kg																																																															
					<table border="1"> <tr><td>M12x1</td><td>0202 65 00</td><td>9</td><td>6</td><td>17</td><td>11</td><td>8</td><td>0.009</td></tr> <tr><td>M12x1.25</td><td>0202 66 00</td><td>9</td><td>6</td><td>17</td><td>11</td><td>8</td><td>0.009</td></tr> <tr><td>M14x1.5</td><td>0202 71 00</td><td>10</td><td>6</td><td>19</td><td>13</td><td>10</td><td>0.015</td></tr> <tr><td>M16x1.5</td><td>0202 75 00</td><td>10</td><td>8</td><td>22</td><td>13</td><td>10</td><td>0.020</td></tr> <tr><td>M18x1.5</td><td>0202 78 00</td><td>10</td><td>10</td><td>24</td><td>13</td><td>10</td><td>0.022</td></tr> <tr><td>M20x1.5</td><td>0202 80 00</td><td>10</td><td>12</td><td>26</td><td>13</td><td>10</td><td>0.025</td></tr> <tr><td>M22x1.5</td><td>0202 82 00</td><td>10</td><td>12</td><td>30</td><td>13</td><td>10</td><td>0.034</td></tr> <tr><td>M27x2</td><td>0202 86 00</td><td>11</td><td>17</td><td>35</td><td>15</td><td>11</td><td>0.053</td></tr> <tr><td>M30x2</td><td>0202 88 00</td><td>11</td><td>19</td><td>38</td><td>15</td><td>11</td><td>0.062</td></tr> </table>	M12x1	0202 65 00	9	6	17	11	8	0.009	M12x1.25	0202 66 00	9	6	17	11	8	0.009	M14x1.5	0202 71 00	10	6	19	13	10	0.015	M16x1.5	0202 75 00	10	8	22	13	10	0.020	M18x1.5	0202 78 00	10	10	24	13	10	0.022	M20x1.5	0202 80 00	10	12	26	13	10	0.025	M22x1.5	0202 82 00	10	12	30	13	10	0.034	M27x2	0202 86 00	11	17	35	15	11	0.053	M30x2	0202 88 00	11	19
M12x1	0202 65 00	9	6	17	11	8	0.009																																																																		
M12x1.25	0202 66 00	9	6	17	11	8	0.009																																																																		
M14x1.5	0202 71 00	10	6	19	13	10	0.015																																																																		
M16x1.5	0202 75 00	10	8	22	13	10	0.020																																																																		
M18x1.5	0202 78 00	10	10	24	13	10	0.022																																																																		
M20x1.5	0202 80 00	10	12	26	13	10	0.025																																																																		
M22x1.5	0202 82 00	10	12	30	13	10	0.034																																																																		
M27x2	0202 86 00	11	17	35	15	11	0.053																																																																		
M30x2	0202 88 00	11	19	38	15	11	0.062																																																																		

Parallel metric threads, ISO standard NFE 03-054

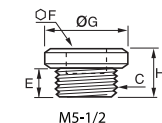
# Nickel-Plated Brass Plugs

**0919**

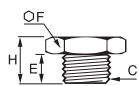
Internal Hexagon Head Plug, Male BSPP and Metric Thread




Nickel-plated brass



M5-1/2


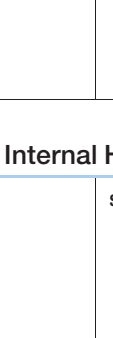



3/4-1"


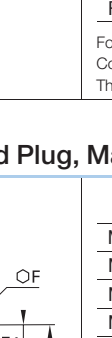

C		E	F	G	H	kg
M5x0.8	<a href="#">0919 00 19</a>	4	2.5	8	7.5	0.001
G1/8	<a href="#">0919 00 10</a>	6	3	15	10	0.007
G1/4	<a href="#">0919 00 13</a>	8	6	18	12	0.013
G3/8	<a href="#">0919 00 17</a>	9	8	21	13	0.021
G1/2	<a href="#">0919 00 21</a>	10	10	25	14.5	0.036
G3/4	<a href="#">0919 00 27</a>	11	30	-	17	0.050
G1	<a href="#">0919 00 34</a>	13	38	-	19	0.076

# Steel Plugs


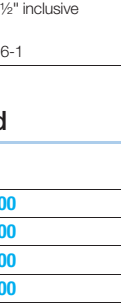

## 0206 Internal Hexagon Head Plug, Male BSPT Thread

	Steel		<b>C</b>		<b>E1</b>	<b>E2 min</b>	<b>E2 max</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
			R1/8	<a href="#">0206 10 00</a>	6	3.1	4.9	5	9.7	8	0.003
			R1/4	<a href="#">0206 13 00</a>	8	4.7	7.3	6	13.2	10	0.007
			R3/8	<a href="#">0206 17 00</a>	8	5.1	7.7	8	16.7	11	0.012
			R1/2	<a href="#">0206 21 00</a>	8	6.4	10	10	21	13	0.023
			R3/4	<a href="#">0206 27 00</a>	11	7.7	11.3	14	26.4	17	0.048
			R1	<a href="#">0206 34 00</a>	13	8.1	12.7	17	33.2	19	0.086
			R1¼	<a href="#">0206 42 00</a>	14	10.4	15	22	41.9	22	0.166
			R1½	<a href="#">0206 49 00</a>	14	10.4	15	24	47.8	22	0.222
<p>For BSPT plugs, from 1/2" - 1½" inclusive          Conforms to DIN 906          Thread, conforms to EN 10226-1</p>											

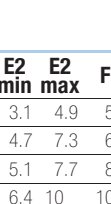
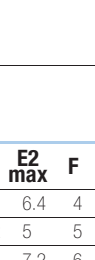

## 0206 Internal Hexagon Head Plug, Male NPT Thread

	Steel		<b>C</b>		<b>E1</b>	<b>E2 min</b>	<b>E2 max</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
			NPT1/16	<a href="#">0206 08 00</a>	6	3.8	6.4	4	7.8	7	0.002
			NPT1/8	<a href="#">0206 11 00</a>	6	3.2	5	5	10.2	8	0.003
			NPT1/4	<a href="#">0206 14 00</a>	8	4.4	7.2	6	13.6	10	0.007
			NPT3/8	<a href="#">0206 18 00</a>	8	4.7	7.5	8	17	11	0.012
			NPT1/2	<a href="#">0206 22 00</a>	8	6.3	9.9	10	21.2	13	0.024
			NPT3/4	<a href="#">0206 28 00</a>	11	6.8	10.4	14	26.6	17	0.047
			NPT1	<a href="#">0206 35 00</a>	13	8	12.4	17	33.2	19	0.083

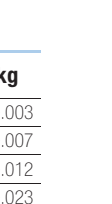
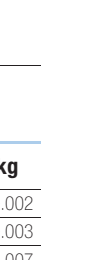

## 0210 Hex Head Plug, Male BSPP and Metric Thread

	Steel		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
			M8x1.25	<a href="#">0210 57 00</a>	8	14	12	15	0.010
			M10x1	<a href="#">0210 60 00</a>	8	14	14	15	0.013
			M12x1.25	<a href="#">0210 66 00</a>	11	17	17	18	0.021
			G1/8	<a href="#">0210 10 00</a>	8	14	14	15	0.012
			M14x1.25	<a href="#">0210 70 00</a>	11	19	19	20	0.032
			G1/4	<a href="#">0210 13 00</a>	12	19	18	21	0.031
			G3/8	<a href="#">0210 17 00</a>	12	22	22	21	0.046
			G1/2	<a href="#">0210 21 00</a>	14	27	26	24	0.078
			G3/4	<a href="#">0210 27 00</a>	16	32	32	27	0.134
			G1	<a href="#">0210 34 00</a>	18	41	39	33	0.269
			G1¼	<a href="#">0210 42 00</a>	20	50	49	35	0.441
<p>Profile of head undercut conforms to DIN 3852-1; form D/E          BSPP threads, ISO 228-1          Parallel metric threads, NFE 03-054</p>									

## 0216 Hex Head Plug, Male BSPT Thread


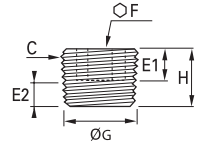

	Steel		<b>C</b>		<b>F</b>	<b>H</b>	<b>kg</b>
			R1/8	<a href="#">0216 10 00</a>	13	16	0.012
			R1/4	<a href="#">0216 13 00</a>	17	19	0.023
			R3/8	<a href="#">0216 17 00</a>	19	21	0.038
			R1/2	<a href="#">0216 21 00</a>	22	23	0.060
<p>BSPT thread conforms to EN 10226-1</p>							

## 0216 Hex Head Plug, Male NPT Thread


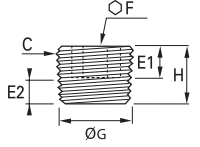

	Steel		<b>C</b>		<b>F</b>	<b>H</b>	<b>kg</b>
			NPT1/8	<a href="#">0216 11 00</a>	13	16	0.012
			NPT1/4	<a href="#">0216 14 00</a>	17	19	0.024
			NPT3/8	<a href="#">0216 18 00</a>	19	21	0.038
			NPT1/2	<a href="#">0216 22 00</a>	22	23	0.060

# Stainless Steel Plugs

## 0285 Internal Hexagon Head Plug, Male BSPT Thread


	Stainless steel 316L 	<b>C</b>		<b>E1</b>	<b>E2 min</b>	<b>E2 max</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		R1/8	<b>0285 10 00</b>	6	3.1	4.9	5	9.7	8	0.003
		R1/4	<b>0285 13 00</b>	8	4.7	7.3	6	13.2	10	0.007
		R3/8	<b>0285 17 00</b>	8	5.1	7.7	8	16.7	11	0.013
		R1/2	<b>0285 21 00</b>	8	6.4	10	10	21	13	0.024
		R3/4	<b>0285 27 00</b>	11	7.7	11.3	14	26.4	17	0.051
		R1	<b>0285 34 00</b>	13	8.1	12.7	17	33.2	19	0.089

## 0285 Internal Hexagon Head Plug, Male NPT Thread

	Stainless steel 316L 	<b>C</b>		<b>E1</b>	<b>E2 min</b>	<b>E2 max</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>kg</b>
		NPT1/8	<b>0285 11 00</b>	6	3.2	5	5	10.2	8	0.003
		NPT1/4	<b>0285 14 00</b>	8	4.4	7.2	6	13.6	10	0.007
		NPT3/8	<b>0285 18 00</b>	8	4.7	7.5	8	17	11	0.013
		NPT1/2	<b>0285 22 00</b>	8	6.3	9.9	10	21.2	13	0.025


# Sealing Accessories

## 0138 Copper Washer

C		G1	G2	K	kg
M6	<a href="#">0138 06 00</a>	6.3	9	1	0.033
M8	<a href="#">0138 08 00</a>	8.3	11	1	0.001
M12	<a href="#">0138 12 00</a>	12.3	15.5	1.3	0.072
M14	<a href="#">0138 14 00</a>	14.3	18	1.5	0.001
M16	<a href="#">0138 16 00</a>	16.3	20	1.5	0.001
M18	<a href="#">0138 18 00</a>	18.3	22	1.5	0.001
M20	<a href="#">0138 20 00</a>	20.3	24	1.5	0.001
M22	<a href="#">0138 22 00</a>	22.3	27	1.5	0.002
M24	<a href="#">0138 24 00</a>	24.3	29	2	0.003
M26	<a href="#">0138 26 00</a>	26.3	31	2	0.003
M30	<a href="#">0138 30 00</a>	30.3	36	2	0.004
M36	<a href="#">0138 36 00</a>	36.3	42	2	0.005
M39	<a href="#">0138 39 00</a>	39.3	44	2	0.007
M45	<a href="#">0138 45 00</a>	45.3	52	2	0.007
M52	<a href="#">0138 52 00</a>	52.3	60	2	0.009
G1/8	<a href="#">0138 10 00</a>	10.3	13.5	1	0.001
G1/4	<a href="#">0138 13 00</a>	13.5	18	1.3	0.001
G3/8	<a href="#">0138 17 00</a>	17.3	21	1.5	0.001
G1/2	<a href="#">0138 21 00</a>	21.3	26	1.5	0.002
G3/4	<a href="#">0138 27 00</a>	27.3	32	2	0.003
G1	<a href="#">0138 33 00</a>	33.5	39	2	0.005
G1 1/4	<a href="#">0138 42 00</a>	42.5	49	2	0.007
G1 1/2	<a href="#">0138 48 00</a>	48.3	55	2	0.008
G2	<a href="#">0138 60 00</a>	60	68	2.5	0.014

DIN 7603  
ISO 65061



## 0137 Bonded Seal

C		G1	G2	K	kg
M12	<a href="#">0137 12 00</a>	12.7	19	1.5	0.001
M14	<a href="#">0137 14 00</a>	14.7	21	1.5	0.001
M16	<a href="#">0137 16 00</a>	16.7	23	1.5	0.002
M18	<a href="#">0137 18 00</a>	18.7	27	2	0.004
M20	<a href="#">0137 20 00</a>	20.7	29	2	0.004
M22	<a href="#">0137 22 00</a>	22.7	31	2	0.005
M24	<a href="#">0137 24 00</a>	24.7	33	2	0.005
M30	<a href="#">0137 30 00</a>	30.7	39	2	0.071
M39	<a href="#">0137 39 00</a>	40	51	2.5	0.012
M45	<a href="#">0137 45 00</a>	46	57	2.5	0.014
G1/8	<a href="#">0137 10 00</a>	10.7	17	1.5	0.001
G1/4	<a href="#">0137 13 00</a>	13.7	20.6	2.1	0.002
G3/8	<a href="#">0137 17 00</a>	17.4	23.7	1.5	0.002
G1/2	<a href="#">0137 21 00</a>	21.5	28.6	2.5	0.004
G3/4	<a href="#">0137 27 00</a>	27	35.3	2	0.007
G1	<a href="#">0137 33 00</a>	33.7	42	2	0.007
G1 1/4	<a href="#">0137 42 00</a>	43	54	2.5	0.013
G1 1/2	<a href="#">0137 48 00</a>	49	60	2.5	0.015
G2	<a href="#">0137 60 00</a>	60.7	73	3	0.027



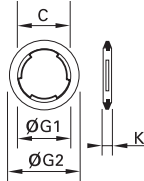
Note: to use these bonded seals successfully it is necessary to spot face around the female thread to provide a sealing face.  
The diameter should be 0.3 mm to 0.5 mm greater than the external diameter of the seal.  
The surface finish of the spot face should not exceed 12 μ.

# Sealing Accessories



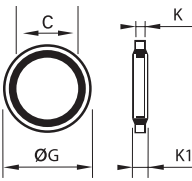
## 0605 Fluoropolymer Tape

	FKM		<b>kg</b>
		<b>0605 12 12</b>	0.012
<p>Can be used for temperatures from - 250°C to +260°C.            Chemically inert and resistant to gases, acids, solvents, hydrocarbons, oils, alkalines, steam etc.            Non-toxic, waterproof, self-lubricating.            In accordance with CFR21.            Can be used on all materials.            Used to facilitate the preparation of leak-free threaded joints.            Supplied on a reel, length = 12 m; width = 12.7 mm; thickness 0.08 mm.</p>			

## 0602 Captive Sealing Washer

	Technical polymer	<b>C</b>		<b>G1</b>	<b>G2</b>	<b>K</b>	<b>kg</b>																																									
		<table border="1"> <tr> <td>M5x0.8</td> <td><b>0602 29 93 15</b></td> <td>5.2</td> <td>7.8</td> <td>1.5</td> <td>0.001</td> </tr> <tr> <td>G1/8</td> <td><b>0602 23 10 20</b></td> <td>10.3</td> <td>14</td> <td>2</td> <td>0.001</td> </tr> <tr> <td>G1/4</td> <td><b>0602 23 11 20</b></td> <td>13.7</td> <td>17.5</td> <td>2</td> <td>0.001</td> </tr> <tr> <td>G3/8</td> <td><b>0602 23 12 20</b></td> <td>17.2</td> <td>21</td> <td>2</td> <td>0.001</td> </tr> <tr> <td>G1/2</td> <td><b>0602 23 13 20</b></td> <td>21.5</td> <td>25.5</td> <td>2.5</td> <td>0.002</td> </tr> <tr> <td>G3/4</td> <td><b>0602 27 32 20</b></td> <td>27</td> <td>32</td> <td>2.5</td> <td>0.001</td> </tr> <tr> <td>G1</td> <td><b>0602 30 60 20</b></td> <td>33.8</td> <td>39</td> <td>3</td> <td>0.001</td> </tr> </table>	M5x0.8	<b>0602 29 93 15</b>	5.2	7.8	1.5	0.001	G1/8	<b>0602 23 10 20</b>	10.3	14	2	0.001	G1/4	<b>0602 23 11 20</b>	13.7	17.5	2	0.001	G3/8	<b>0602 23 12 20</b>	17.2	21	2	0.001	G1/2	<b>0602 23 13 20</b>	21.5	25.5	2.5	0.002	G3/4	<b>0602 27 32 20</b>	27	32	2.5	0.001	G1	<b>0602 30 60 20</b>	33.8	39	3	0.001	Maximum allowable working pressure: 20 bar			
M5x0.8	<b>0602 29 93 15</b>	5.2	7.8	1.5	0.001																																											
G1/8	<b>0602 23 10 20</b>	10.3	14	2	0.001																																											
G1/4	<b>0602 23 11 20</b>	13.7	17.5	2	0.001																																											
G3/8	<b>0602 23 12 20</b>	17.2	21	2	0.001																																											
G1/2	<b>0602 23 13 20</b>	21.5	25.5	2.5	0.002																																											
G3/4	<b>0602 27 32 20</b>	27	32	2.5	0.001																																											
G1	<b>0602 30 60 20</b>	33.8	39	3	0.001																																											

## 0139 Bi-Material Captive Sealing Washer

	Zinc-plated steel with NBR seal	<b>C</b>		<b>G</b>	<b>K</b>	<b>K1</b>	<b>kg</b>																																			
		<table border="1"> <tr> <td>G1/8</td> <td><b>0139 10 00</b></td> <td>14</td> <td>1</td> <td>1.7</td> <td>0.001</td> </tr> <tr> <td>G1/4</td> <td><b>0139 13 00</b></td> <td>17</td> <td>1</td> <td>1.7</td> <td>0.001</td> </tr> <tr> <td>G3/8</td> <td><b>0139 17 00</b></td> <td>22</td> <td>1.2</td> <td>2.1</td> <td>0.001</td> </tr> <tr> <td>G1/2</td> <td><b>0139 21 00</b></td> <td>26</td> <td>1.6</td> <td>2.5</td> <td>0.002</td> </tr> <tr> <td>G3/4</td> <td><b>0139 27 00</b></td> <td>32</td> <td>1.5</td> <td>2.5</td> <td>0.003</td> </tr> <tr> <td>G1</td> <td><b>0139 34 00</b></td> <td>39.6</td> <td>1.7</td> <td>2.6</td> <td>0.003</td> </tr> </table>	G1/8	<b>0139 10 00</b>	14	1	1.7	0.001	G1/4	<b>0139 13 00</b>	17	1	1.7	0.001	G3/8	<b>0139 17 00</b>	22	1.2	2.1	0.001	G1/2	<b>0139 21 00</b>	26	1.6	2.5	0.002	G3/4	<b>0139 27 00</b>	32	1.5	2.5	0.003	G1	<b>0139 34 00</b>	39.6	1.7	2.6	0.003	Maximum allowable working pressure: 250 bar			
G1/8	<b>0139 10 00</b>	14	1	1.7	0.001																																					
G1/4	<b>0139 13 00</b>	17	1	1.7	0.001																																					
G3/8	<b>0139 17 00</b>	22	1.2	2.1	0.001																																					
G1/2	<b>0139 21 00</b>	26	1.6	2.5	0.002																																					
G3/4	<b>0139 27 00</b>	32	1.5	2.5	0.003																																					
G1	<b>0139 34 00</b>	39.6	1.7	2.6	0.003																																					

Technical characteristics of captive seals **0602**

Tightening torque


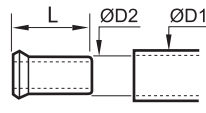



	M5x0.8	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Min. Torque in daN.m	0.06	0.08	0.3	0.5	1	1.2	1.9
Max. Torque daN.m	0.16	0.8	1.2	3	3.5	6	9


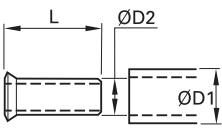



# Tube Supports

## 0127 Brass Tube Support for Polymer Tubing

 	Brass	<b>ØD1</b>	<b>ØD2</b>		<b>L</b>	<b>kg</b>	
	4	2	<a href="#">0127 04 00</a>	11	0.001		
		2.7	<a href="#">0127 04 27</a>	11	0.001		
	5	3	<a href="#">0127 05 03</a>	11	0.001		
		3.3	<a href="#">0127 05 00</a>	11.5	0.009		
	6	4	<a href="#">0127 06 00</a>	11.5	0.001		
	8	5.5	<a href="#">0127 08 55</a>	14	0.001		
		6	<a href="#">0127 08 00</a>	14	0.001		
		7	<a href="#">0127 10 07</a>	18	0.001		
	10	7.5	<a href="#">0127 10 75</a>	18	0.001		
		8	<a href="#">0127 10 00</a>	18	0.002		
		8	<a href="#">0127 12 08</a>	18	0.002		
	12	9	<a href="#">0127 12 09</a>	18	0.002		
		10	<a href="#">0127 12 00</a>	18	0.001		
		11	<a href="#">0127 14 11</a>	18	0.002		
		12	<a href="#">0127 14 00</a>	18	0.002		
	15	12	<a href="#">0127 15 12</a>	18	0.002		
	16	13	<a href="#">0127 16 13</a>	18	0.003		
	18	14	<a href="#">0127 18 14</a>	19.5	0.003		
	20	15	<a href="#">0127 20 15</a>	20.5	0.003		
	22	16	<a href="#">0127 22 16</a>	21	0.004		
	25	19	<a href="#">0127 25 19</a>	25	0.007		
	This tube support guarantees good gripping, at high temperatures and pressures, by preventing collapsing of the tube.						

## 1827 Stainless Steel Tube Support for Fluoropolymer Tubing

 	Stainless steel 316L	<b>ØD1</b>	<b>ØD2</b>		<b>L</b>	<b>kg</b>
	6	4	<a href="#">1827 06 00</a>	11.5	0.001	
	8	6	<a href="#">1827 08 00</a>	14	0.001	
	10	8	<a href="#">1827 10 00</a>	18	0.001	
	12	9	<a href="#">1827 12 09</a>	18	0.001	
		10	<a href="#">1827 12 00</a>	18	0.001	
	16	14	<a href="#">1827 16 00</a>	18	0.002	
This tube support is necessary when using fluoropolymer FEP tubing at all temperatures compatible with the fitting/tubing assembly.						









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# Parker Safety Guide

## Selection and Use of Fittings, Function Fittings, Tubing and Related Products

**WARNING:** Failure or improper selection or improper use of fittings, function fittings, tubing or related products ("Products") can cause death, personal injury and property damage.

Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric power lines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high pressure fluid discharge.
- Dangerously whipping tubing.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity build-up or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.
- Dynamic applications with strong oscillation

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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 information, call 00800 27 27 5374.



## AEROSPACE

### Key Markets

- Aircraft engines
- Business & general aviation
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

### Key Products

- Flight control systems & components
- Fluid conveyance systems
- Fluid metering delivery & atomization devices
- Fuel systems & components
- Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes



## CLIMATE CONTROL

### Key Markets

- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

### Key Products

- CO<sub>2</sub> controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves



## ELECTROMECHANICAL

### Key Markets

- Aerospace
- Factory automation
- Food & beverage
- 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
- Controllers
- Gantry robots
- Gearheads
- Human machine interfaces
- Industrial PCs
- Inverters
- Linear motors, slides and stages
- Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions



## FILTRATION

### Key Markets

- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation
- Process
- Transportation

### Key Products

- Analytical gas generators
- Compressed air & gas filters
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero air generators



## FLUID & GAS HANDLING

### Key Markets

- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

### Key Products

- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



## HYDRAULICS

### Key Markets

- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Truck hydraulics

### Key Products

- Diagnostic equipment
- Hydraulic cylinders & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



## PNEUMATICS

### Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

### Key Products

- Air preparation
- Compact cylinders
- Field bus valve systems
- Grippers
- Guided cylinders
- Manifolds
- Miniature fluidics
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves and controls
- Rodless cylinders
- Rotary actuators
- Tie rod cylinders
- Vacuum generators, cups & sensors



## PROCESS CONTROL

### Key Markets

- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

### Key Products

- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds



## SEALING & SHIELDING

### Key Markets

- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

### Key Products

- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management



ENGINEERING YOUR SUCCESS.