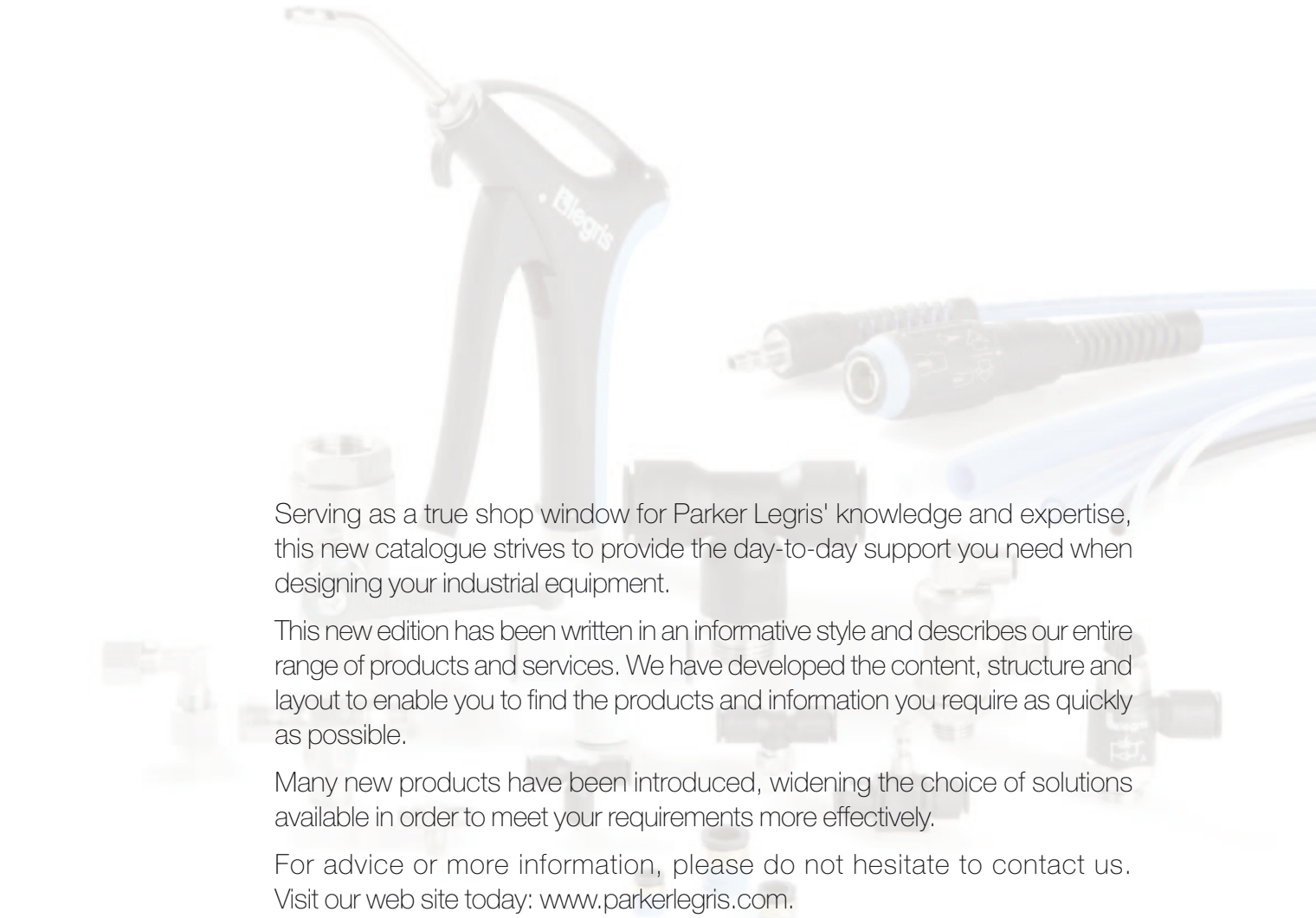
Parker Legris: Connection Solutions for Industrial Fluids

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

Parker

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.

Parker

legris

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

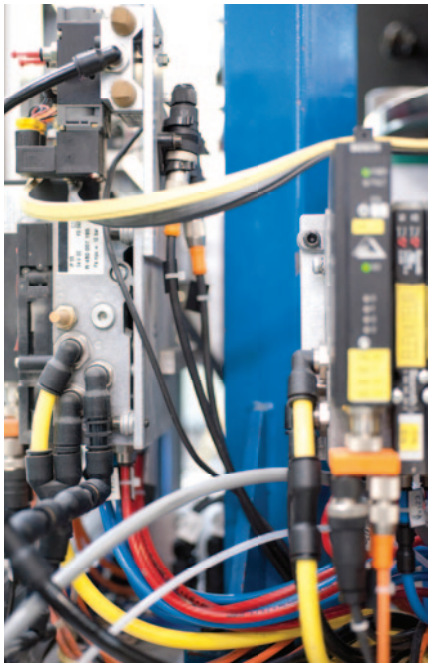
1988 Legris becomes a division of the Legris Industries Group

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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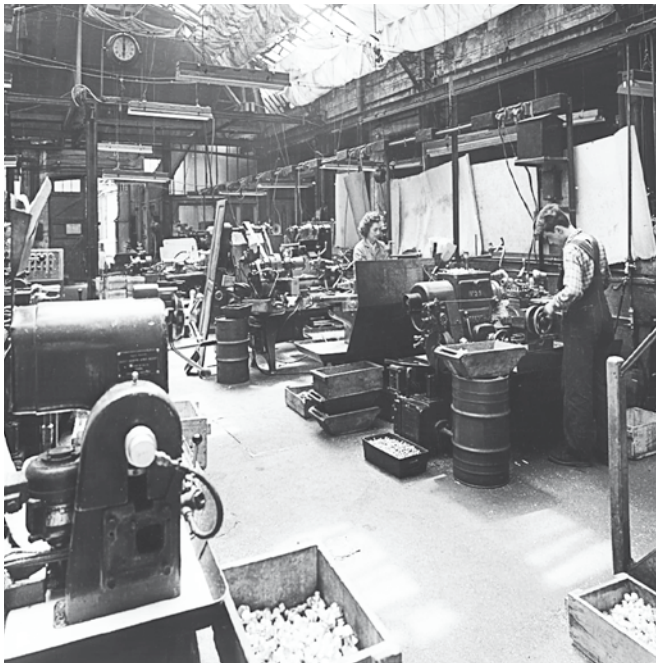


2012

Your Applications Inspire Our Innovation

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.

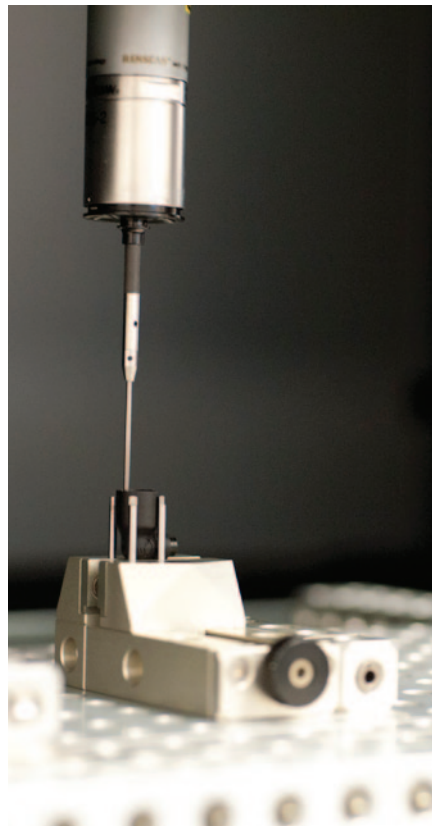
We protect your connectors to give you peace of mind

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

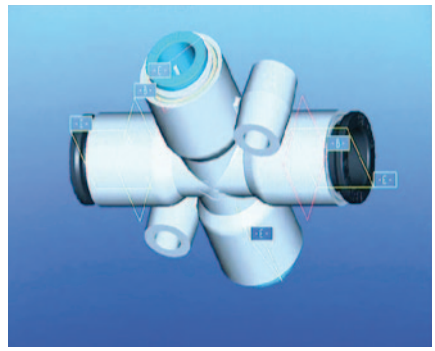
Packaging, bar codes and customised labels according to your needs.

Technical Specifications

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

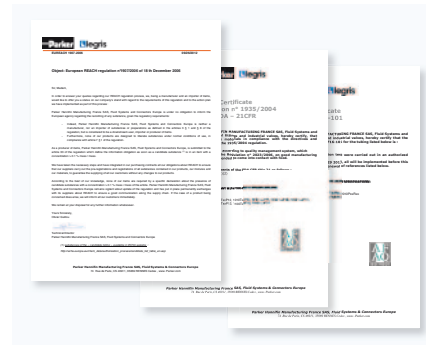
2D and 3D Drawings

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).

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.

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

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.

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).

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.

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

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

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

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.

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.

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.

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

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.

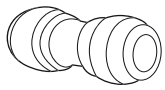
Using our technology reduces the environmental impact

LIQUIfit®

Tube-to-Tube Connector

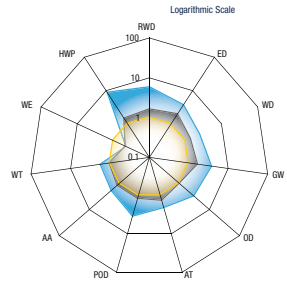
Market Standard

Tube-to-Tube Connector

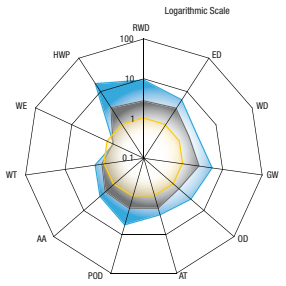


- Parker Legris
- Market Standard in PP
- Market Standard in POM

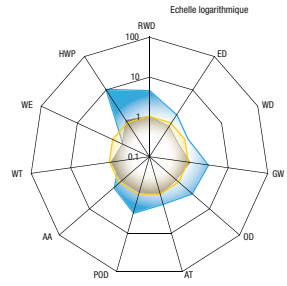
Stud Elbow



Tube-to-Tube Connector



Stud Fitting



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

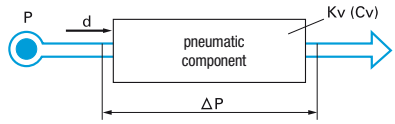
WT: Water Toxicity
WE: Water Eutrophication
HWP: Hazardous Waste Production

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^3/min or m^3/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:

$$Qv = 26.7\ Kv \sqrt{\Delta p \times P\ upstream}$$

Qv = flow in l/min (ANR)
Kv = flow factor
Δp = in bar
P upstream: in bar absolute

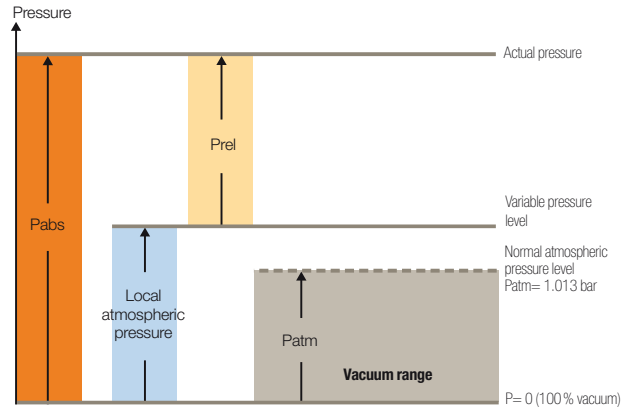
Cv is a flow factor equivalent to Kv, but expressed in US gallons per minute under a Δp of 1 PSI. Kv and Cv are therefore linked by the following relationships:

Kv = 14.3 Cv – Cv = 0.07 Kv.

The flow indicated for certain products in the Parker Legris catalogue is the average flow at 6 bar expressed in Nl/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.



Pabs = Patm + Prel
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^2.

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

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^{-3} mbar absolute
• secondary vacuum	10^{-3}	to	10^{-6} mbar absolute
• molecular vacuum	10^{-6}	to	10^{-9} mbar absolute
• ultra-vacuum			< 10^{-9} 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
m²	square metre
m³/h	cubic metres per hour
min	minute
mm	millimetre
mm Hg	millimetres of mercury
N	Newton
Nl	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 Nl/min.

Units of Flow

L/min	Cfm	m³/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

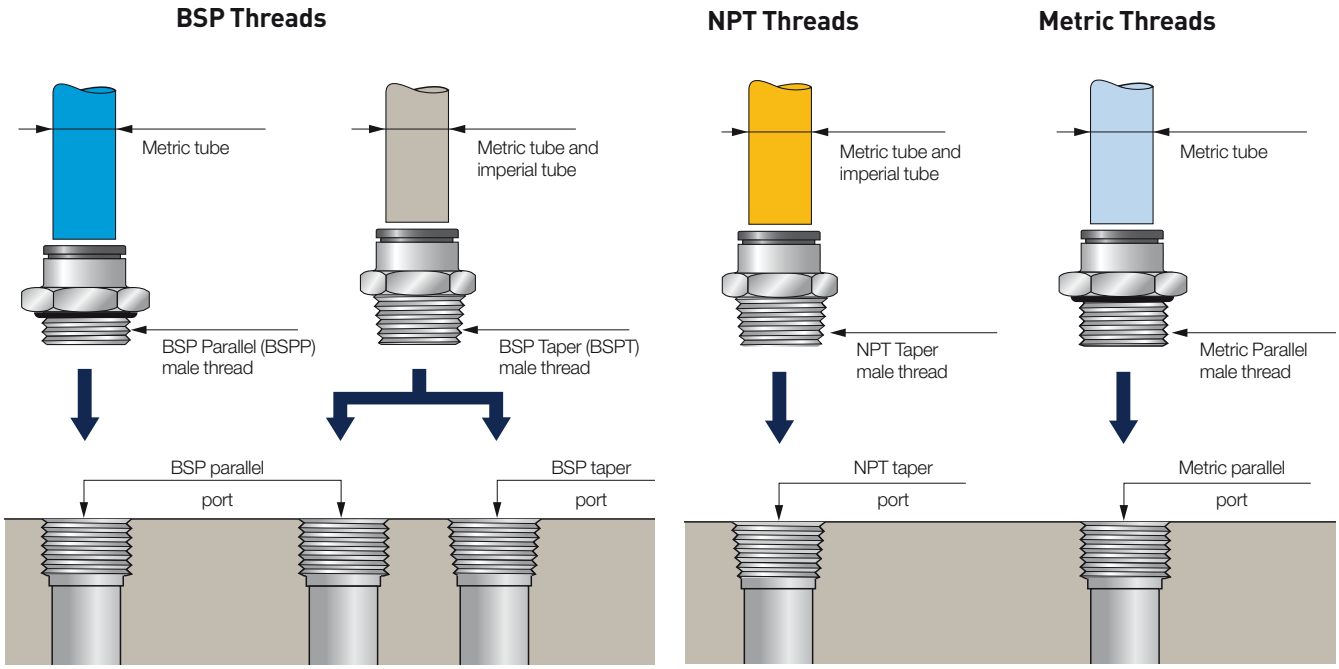
bar	kPa	psi	psi	kPa	bar
0.0005	0.05	0.0073	0.007	0.05	0.0005
0.001	0.10	0.0145	0.015	0.1	0.0010
0.005	0.5	0.0725	0.070	0.48	0.0048
0.01	1	0.145	0.150	1.04	0.0104
0.05	5	0.725	0.700	4.83	0.0483
0.069	6.9	1.000	1.000	6.90	0.0690
0.1	10	1.450	1.500	10.35	0.1035
0.25	25	3.625	3.000	20.70	0.2070
0.5	50	7.250	7.000	48.30	0.4830
0.75	75	10.875	10.000	69.00	0.690
1.0	100	14.500	15.000	103.50	1.0350
1.5	150	21.750	20.000	138.00	1.380
2.0	200	29.000	25.000	172.50	1.725
2.5	250	36.250	30.000	207.00	2.070
3.0	300	43.500	35.000	241.50	2.415
3.5	350	50.750	40.000	276.00	2.760
4.0	400	58.000	50.000	345.00	3.450
4.5	450	65.250	60.000	414.00	4.140
5.0	500	72.500	70.000	483.00	4.830
5.5	550	79.750	80.000	552.00	5.520
6.0	600	87.000	90.000	621.00	6.210
7.0	700	101.500	100.000	690.00	6.900
8.0	800	116.000	110.000	759.00	7.590
9.0	900	130.500	125.000	862.50	8.625
10.0	1000	145.000	150.000	1035	10.350
12.0	1200	174.000	175.000	1207.5	12.075
14.0	1400	203.000	200.000	1380	13.800
16.0	1600	232.000	225.000	1552.5	15.525
18.0	1800	261.000	250.000	1725	17.250
20.0	2000	290.000	300.000	2070	20.700

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**
1¼"	**42**	1"	**35**
1½"	**49**	1¼"	**43**
2"	**48**	1½"	**50**
		2"	**44**

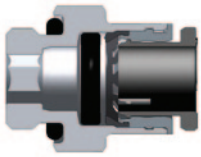
Metric Thread	Code	Metric Thread	Code	Metric Thread	Code
M3x0.5	**09**	M12x1.25	**66**	M22x1.5	**82**
M5x0.8	**19**	M12x1.5	**67**	M24x1.5	**83**
M6x1	**52**	M13x1.25	**68**	M27x1.5	**85**
M7x1	**55**	M14x1.25	**70**	M30x2	**88**
M8x1	**56**	M14x1.5	**71**	M33x1.5	**90**
M8x1.25	**57**	M16x1.25	**74**	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

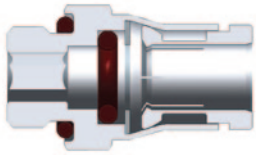
A very large number of technical solutions exist for connecting two pipes together. Leader in industrial connection systems, Parker Legris offers a very wide range of technologies and materials to cover all requirements.

Push-In Fittings

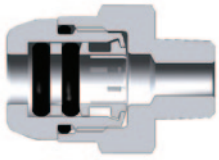
Tube retention with gripping ring



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.

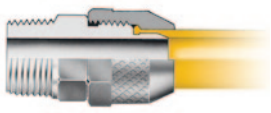
Advantages

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



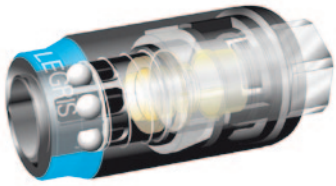
Principle

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
LF 3000®	Technical polymer/brass/NBR	Compressed air	20	-20°C	+80°C	Good	Moderate
LIQUIfit®	Bio-sourced polymer/EPDM	Liquids	16	-10°C	+95°C	Moderate	Good
LF 3200	Nickel-plated brass/NBR	Compressed air	20	-15°C	+80°C	Excellent	Moderate
LF 3600	Chemical nickel-plated brass FDA/FKM	All brass-compatible fluids	30	-20°C	+150°C	Excellent	Good
LF 6100	Brass/NBR	Oil, analytical gases	60	-40°C	+120°C	Excellent	Moderate
LF 3800 / LF 3900	316L - 303 stainless steel/FKM	All fluids	30	-20°C	+150°C	Excellent	Excellent
Cartridges and Customised Products							
LF 3000®	Technical polymer/brass or chemical nickel-plated brass/NBR	Compressed air	20	-20°C	+80°C	Good	Moderate
LIQUIfit®	Bio-sourced polymer/EPDM	Liquids	16	-10°C	+95°C	Moderate	Good
LF 3600	Chemical nickel-plated brass FDA/FKM	All brass-compatible fluids	30	-20°C	+150°C	Excellent	Good
LF 3800 / LF 3900	316L - 303 stainless steel/FKM	All fluids	30	-20°C	+150°C	Excellent	Excellent
TL	Brass/NBR	Compressed air	16	-25°C	+80°C	Good	Moderate
Technical Tubing and Hose							
Semi-Rigid PA	Semi-rigid bio-sourced polyamide	Compressed air, industrial fluids	50	-40°C	+100°C	Good	Good
Rigid PA	Rigid polyamide	Compressed air, industrial fluids	58	-40°C	+80°C	Good	Good
Fireproof HIgh Resistance PA	Polyamide with flame-retardant additive	Coolants, industrial fluids (lubricants), compressed air	50	-40°C	+100°C	Excellent	Moderate
Anti-Spark PA and PU with or without PVC sheath	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
PU single and multi-tube	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
Antistatic PU	Polyurethane filled with conductive particles	Compressed air	10	-20°C	+70°C	Excellent	Moderate
Advanced PE	Polyethylene, 50% reticulated	All fluids	16	-40°C	+95°C	Good	Excellent
FEP	Fluoropolymer: fluorinated ethylene-propylene	All fluids	28	-40°C	+150°C	Good	Excellent
PFA	Fluoropolymer: high purity and coloured perfluoroalkoxy FDA	All fluids	36	-196°C	+260°C	Excellent	Excellent
Antistatic PFA	Fluoropolymer: perfluoroalkoxy filled with conducting particles	All fluids	36	-196°C	+260°C	Excellent	Good
Self-Fastening NBR	NBR with polyamide braid	Compressed air, coolants	16	-20°C	+100°C	Excellent	Good
Braided PU	Polyurethane with polyester braid	Compressed air, industrial fluids	15	-40°C	+75°C	Excellent	Good
Function Fittings							
Polymer Flow Regulators	Technical polymer/nickel-plated brass	Compressed air	10	0°C	+70°C	Good	Moderate
Metal Flow Regulators	Treated brass/nickel-plated brass	Compressed air	10	0°C	+70°C	Excellent	Moderate
Stainless Steel Flow Regulators	316L stainless steel	Compressed air	40	-15°C	+120°C	Excellent	Excellent
Blocking Fittings	Nickel-plated brass	Compressed air	10	-20°C	+70°C	Excellent	Good
Piloted Non-Return Valve	Technical polymer/nickel-plated brass	Compressed air	10	-5°C	+60°C	Good	Moderate
Non-Return Fitting	Technical polymer/nickel-plated brass	Compressed air	10	0°C	+70°C	Good	Moderate
Silencers	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
Brass Fittings	Brass	Compressed air, industrial fluids	550 (depending on the type of tubing used)	-40°C	+250°C	Excellent	Good
Stainless Steel Fittings	316L stainless steel	All fluids	400 (80 bar in aggressive environment)	-40°C	+250°C	Excellent	Excellent
PL Spigot Fittings	Nickel-plated brass	Compressed air, industrial fluids	40	-40°C	+100°C	Good	Good

Industrial Valves

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

Industrial Blowguns

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

Quick-Acting Couplers

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

Adaptors and Manifolds

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

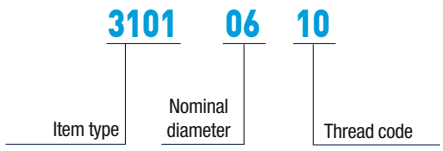
Fittings and Valves

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 2nd nominal diameter (2 digits)
- a suffix, if applicable

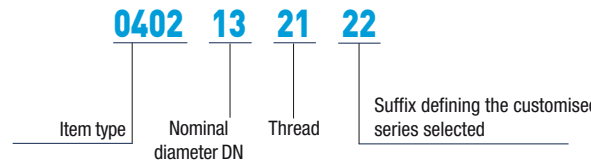
Fittings



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

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

Valves



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

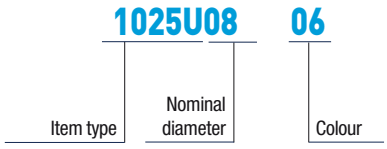
Technical Tubing and Hose

The part numbers are selected using a technical mnemonic code.

Each tube and hose is identified by:

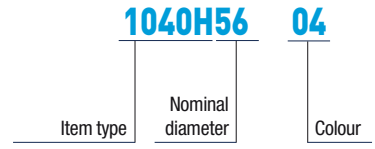
- model series (4 digits and a letter)
- nominal diameter (2 digits)
- colour (2 digits)
- inside diameter, if applicable

Tubing



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

Hose



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

00 = ☐ **01** = ■ **02** = ■ **03** = ■ **04** = ■ **05** = ■ **06** = ■ **07** = ■ **08** = C

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

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LIQUIfit®
LF 3600
LF 3800/LF 3900
LF 6100

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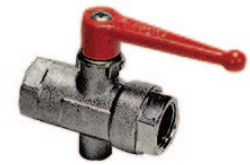

Industrial Blowguns — Chapter 7

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Quick-Acting Couplers — Chapter 8

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Adaptors and Manifolds — 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

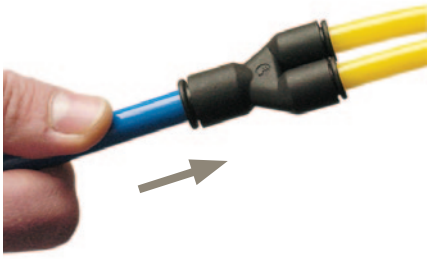
LF 6100

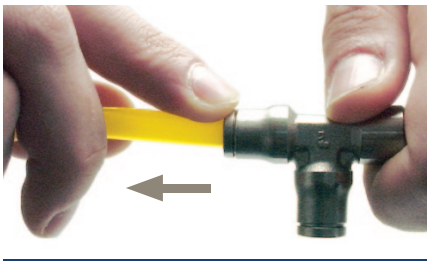
Principle and Advantages of the Push-In Fitting

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



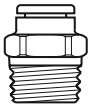


Assembly

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.

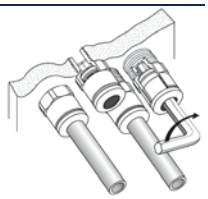
Threads

BSPP
and metric



BSPT, NPT
and NPTF

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

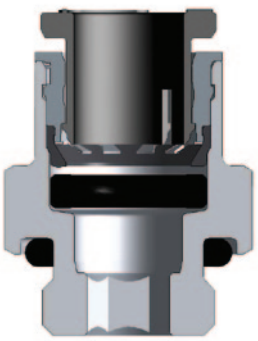
- Unique and patented sealing technology
- Rigorous selection of materials:
  NBR: ideally suited for compressed air
  EPDM: perfectly suited for food and beverage
  FKM: all fluids and high temperatures
- 100 % leak-tested in the production process

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

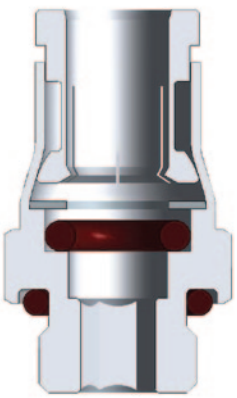
Gripping Ring Technology

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



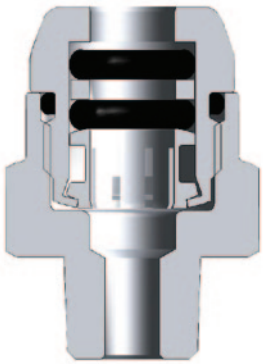
Gripping with Collet

- 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

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Banjo Fittings

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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

Applications

Robotics
Automotive Process
Pneumatics
Semi-Conductors
Textile
Packaging
Vacuum

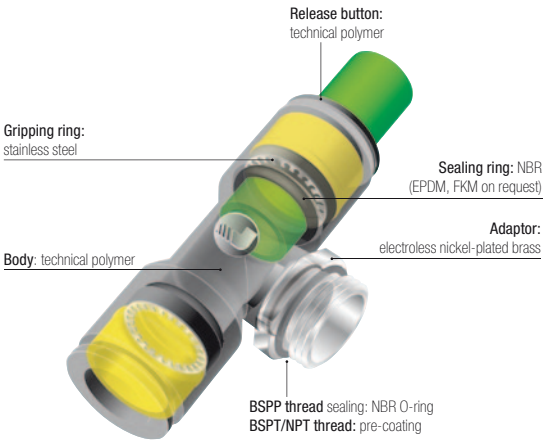
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	Vacuum to 20 bar
Working Temperature	-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

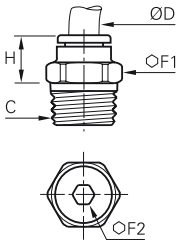
Regulations

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

Nickel-plated brass, NBR

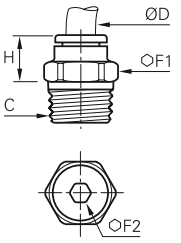


ØD	C		F1	F2	H	kg
4	R1/8	3175 04 10	10	3	9.5	0.005
	R1/4	3175 04 13	14	3	6.5	0.012
	R3/8	3175 04 17	17	3	8	0.024
6	R1/8	3175 06 10	10	4	11.5	0.005
	R1/4	3175 06 13	14	4	8.5	0.011
	R3/8	3175 06 17	17	4	8.5	0.022
	R1/2	3175 06 21	21	4	9	0.043
8	R1/8	3175 08 10	13	5	20	0.011
	R1/4	3175 08 13	14	6	17	0.014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

Pre-coated thread

3175 Stud Fitting, Male NPT Thread

Nickel-plated brass, NBR



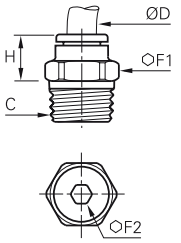
ØD	C		F1	F2	H	kg
6	NPT1/8	3175 06 11	11	4	11.5	0.006
	NPT1/4	3175 06 14	14	4	8.5	0.012
10	NPT1/4	3175 10 14	16	7	20	0.018
	NPT3/8	3175 10 18	18	8	16.5	0.023
	NPT1/2	3175 10 22	22	8	14	0.037
12	NPT3/8	3175 12 18	19	9	24	0.030
	NPT1/2	3175 12 22	22	10	19.5	0.037

Pre-coated thread

3175 Stud Fitting, Male NPT Thread

Inch

Nickel-plated brass, NBR



ØD	C		F1	F2	H	kg
1/8	NPT1/8	3175 53 11	11	2	7.2	0.006
	NPT1/4	3175 53 14	14	2	8	0.016
1/4	NPT1/8	3175 56 11	11	4	11.9	0.006
	NPT1/4	3175 56 14	14	4	9.4	0.013
	NPT3/8	3175 56 18	18	5	7.6	0.024
3/8	NPT1/8	3175 60 11	16	4	22.7	0.019
	NPT1/4	3175 60 14	16	7	20.5	0.019
	NPT3/8	3175 60 18	18	7	17.5	0.026
1/2	NPT3/8	3175 62 18	22	9.5	25.9	0.047
	NPT1/2	3175 62 22	24	9.5	22.1	0.064

Pre-coated thread

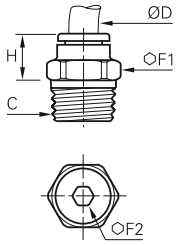
Other products are available upon request; please do not hesitate to consult us.

Stud Fittings

3175 Stud Fitting, Male BSPT Thread

Inch

Nickel-plated brass, NBR

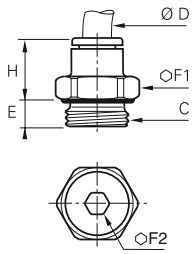


ØD	C		F1	F2	H	kg
1/8	R1/8	3175 53 10	11	3	8.5	0.005
3/16	R1/8	3175 55 10	11.1	3.2	15.5	0.009
	R1/4	3175 55 13	14.3	4	15	0.020
1/4	R1/8	3175 56 10	11	4	12	0.006
	R1/4	3175 56 13	14	4	9.5	0.021
3/8	R1/4	3175 60 13	18	5	7.5	0.017
	R3/8	3175 60 17	13	5	20	0.019
	R1/2	3175 60 21	14	6	16.8	0.061
1/2	R1/4	3175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

Pre-coated thread

3101 Stud Fitting, Male BSPP and Metric Thread

Nickel-plated brass, NBR

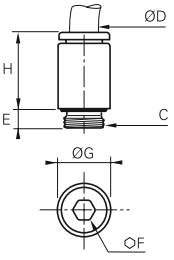


ØD	C		E	F1	F2	H	kg
3	M3x0.5	3101 03 09*	2.5	8	-	12.5	0.003
	M5x0.8	3101 03 19	3.5	8	2.5	12.5	0.004
4	M3x0.5	3101 04 09*	2.5	8	-	14.5	0.003
	M5x0.8	3101 04 19	3	9	2.5	14	0.003
	M7x1	3101 04 55	5	10	2.5	14	0.004
	G1/8	3101 04 10	5	13	3	11.5	0.007
	G1/4	3101 04 13	5.5	16	3	10.5	0.011
6	M5x0.8	3101 06 19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

* Bi-material O ring seal

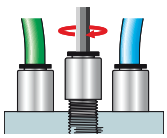
3181 Stud Fitting Round Body, Male Metric Thread

Nickel-plated brass, NBR



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

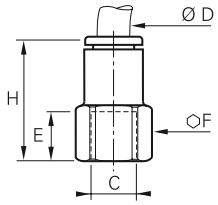
The internal hexagon and circular external shape ensure that model 3181 provides highly compact assembly.
They can be easily installed with an Allen key without the need of a spanner.



Stud Fittings

3114 Stud Fitting, Female BSPP and Metric Thread

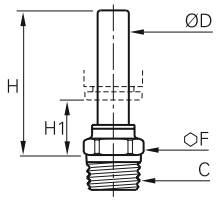
Nickel-plated brass, NBR



ØD	C		E	F	H	kg
4	M5x0.8	3114 04 19	6.5	8	19.5	0.005
	G1/8	3114 04 10	9.5	13	22.5	0.010
	G1/4	3114 04 13	13.5	16	26.5	0.015
6	G1/8	3114 06 10	9.5	13	24.5	0.011
	G1/4	3114 06 13	13.5	16	28.5	0.017
8	G1/8	3114 08 10	9.5	13	29	0.015
	G1/4	3114 08 13	13.5	16	33	0.021
	G3/8	3114 08 17	14	19	34	0.025
10	G1/4	3114 10 13	13.5	16	36	0.027
	G3/8	3114 10 17	14	19	36	0.027
	G1/2	3114 10 21	19.5	24	41.5	0.048
12	G3/8	3114 12 17	14	19	40	0.033
	G1/2	3114 12 21	19.5	24	45.5	0.052
14	G3/8	3114 14 17	14	22	42.5	0.057
16	G1/2	3114 16 21	15	27	49	0.096

3121 Stud Standpipe, Male BSPT Thread

Technical polymer, nickel-plated brass

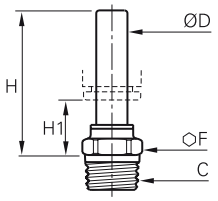


ØD	C		F	H	H1	kg
4	R1/8	3121 04 10	10	26	14	0.005
	R1/4	3121 04 13	14	26.5	14.5	0.014
6	R1/8	3121 06 10	10	28	14	0.005
	R1/4	3121 06 13	14	28.5	14.5	0.014
8	R1/8	3121 08 10	10	29.5	11	0.006
	R1/4	3121 08 13	14	28.5	10	0.012
	R3/8	3121 08 17	17	28.5	10	0.015
10	R1/4	3121 10 13	15	36	15.5	0.012
	R3/8	3121 10 17	17	36	15.5	0.017
	R1/2	3121 10 21	21	36	15.5	0.028
12	R3/8	3121 12 17	17	36.5	12	0.018
	R1/2	3121 12 21	21	36.5	12	0.028
14	R1/2	3121 14 21	21	41	13.5	0.042

Pre-coated thread

3121 Stud Standpipe, Male NPT Thread

Technical polymer, nickel-plated brass

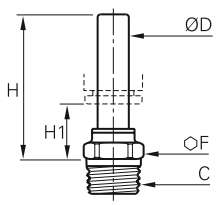


ØD	C		F	H	H1	kg
4	NPT1/8	3121 04 11	11	25.9	14.5	0.007
	NPT1/4	3121 04 14	14	26.4	15	0.017
8	NPT1/8	3121 08 11	11	29.5	10.9	0.008
	NPT1/4	3121 08 14	14	28.4	9.9	0.014

Pre-coated thread
5/32" (4 mm) and 5/16" (8 mm) are also available

3121 Stud Standpipe, Male NPT Thread — Inch

Technical polymer, nickel-plated brass



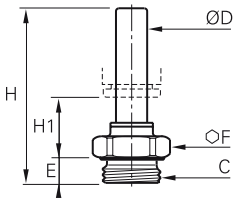
ØD	C		F	H	H1	kg
1/4	NPT1/8	3121 56 11	11	30	15.5	0.001
	NPT1/4	3121 56 14	14	28.4	14.5	0.001
3/8	NPT1/8	3121 60 11	15	44.4	16.5	0.013
	NPT1/4	3121 60 14	15	36.1	17	0.014
	NPT3/8	3121 60 18	18	36.1	15.5	0.023
1/2	NPT3/8	3121 62 18	17	36.6	9.4	0.026
	NPT1/2	3121 62 22	21	37.1	9.9	0.046

Pre-coated thread
5/32" (4 mm) and 5/16" (8 mm) are also available

Stud Fittings

3131 Stud Standpipe, Male BSPP and Metric Thread

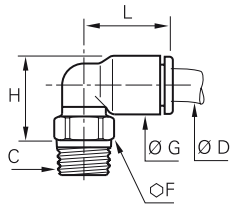
Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	H	H1	kg
4	M5x0.8	3131 04 19	3.5	8	31	16	0.002
	G1/8	3131 04 10	5	13	30	13.5	0.005
	G1/4	3131 04 13	5.5	16	31	13.5	0.010
6	G1/8	3131 06 10	5	13	32	13.5	0.005
	G1/4	3131 06 13	5.5	16	33	13.5	0.010
8	G1/8	3131 08 10	5	13	35.5	12.5	0.008
	G1/4	3131 08 13	5.5	16	34.5	10.5	0.010
	G3/8	3131 08 17	5.5	20	34.5	10.5	0.015
10	G1/4	3131 10 13	5.5	16	43.5	17.5	0.012
	G3/8	3131 10 17	5.5	20	41.5	15.5	0.015
	G1/2	3131 10 21	7.5	24	41.5	15.5	0.024
12	G3/8	3131 12 17	5.5	20	42	12	0.015
	G1/2	3131 12 21	7	24	43.5	12	0.025
14	G3/8	3131 14 17	5.5	20	46.5	14	0.018
	G1/2	3131 14 21	7	24	48	13.5	0.025

3109 Stud Elbow, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

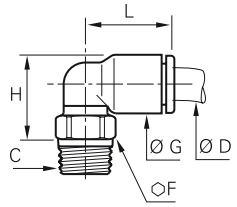


ØD	C		F	G	H	L	kg
4	R1/8	3109 04 10	10	8.5	13.5	14	0.006
	R1/4	3109 04 13	14	8.5	14	14	0.015
	R3/8	3109 04 17	17	8.5	13.5	14	0.018
6	R1/8	3109 06 10	10	10.5	15.5	16	0.006
	R1/4	3109 06 13	14	10.5	16	16	0.015
	R3/8	3109 06 17	17	10.5	16	16	0.019
	R1/2	3109 06 21	21	10.5	16.5	16	0.034
8	R1/8	3109 08 10	10	13.5	19	23	0.007
	R1/4	3109 08 13	14	13.5	18	23	0.014
	R3/8	3109 08 17	17	13.5	18	23	0.018
	R1/2	3109 08 21	21	13.5	19.5	23	0.033
10	R1/8	3109 10 10	15	16	23	26.5	0.012
	R1/4	3109 10 13	15	16	22	26.5	0.014
	R3/8	3109 10 17	17	16	22	26.5	0.019
	R1/2	3109 10 21	21	16	22	26.5	0.031
12	R1/4	3109 12 13	15	19	25	31	0.016
	R3/8	3109 12 17	17	19	25	31	0.022
	R1/2	3109 12 21	21	19	25	31	0.033
14	R3/8	3109 14 17	20	22	30.5	35.5	0.031
	R1/2	3109 14 21	24	22	28.5	35.5	0.041
16	R3/8	3109 16 17	27	27	53	39	0.106
	R1/2	3109 16 21	27	27	53	39	0.104

Pre-coated thread
The body swivels for positioning purposes.

3109 Stud Elbow, Male NPT Thread

Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H	L	kg
4	NPT1/8	3109 04 11	11	8.4	13.5	14	0.007
	NPT1/4	3109 04 14	14	8.4	14	14	0.016
6	NPT1/8	3109 06 11	11	10.5	15.5	16	0.007
	NPT1/4	3109 06 14	14	10.5	16	16	0.017
8	NPT1/8	3109 08 11	11	13.5	19	23.1	0.009
	NPT1/4	3109 08 14	14	13.5	18	23.1	0.015
10	NPT1/4	3109 10 14	15	16	23	26.5	0.017
	NPT3/8	3109 10 18	18	16	22	26.5	0.024
	NPT1/2	3109 10 22	22	16	23	26.5	0.045
12	NPT3/8	3109 12 18	18	19	25	31	0.050
	NPT1/2	3109 12 22	22	19	26	31	0.092

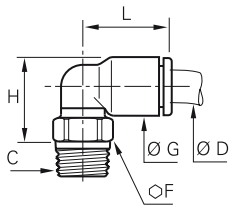
Pre-coated thread
The body swivels for positioning purposes.

Stud Fittings

3109 Stud Elbow, Male NPT Thread

Inch

Technical polymer, nickel-plated brass, NBR



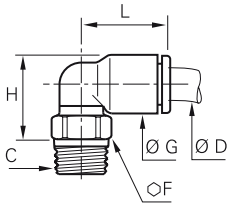
ØD	C		F	G	H	L	kg
1/8	NPT1/8	3109 53 11	11	8.5	13.5	14.5	0.007
	NPT1/4	3109 53 14	14	8.5	14	14.5	0.015
1/4	NPT1/8	3109 56 11	11	10.9	17	18	0.007
	NPT1/4	3109 56 14	14	10.9	16	18	0.014
	NPT3/8	3109 56 18	18	10.9	16.5	18	0.021
3/8	NPT1/8	3109 60 11	15	16	23.1	27.4	0.014
	NPT1/4	3109 60 14	15	16	23.1	27.4	0.017
	NPT3/8	3109 60 18	18	16	22.1	27.4	0.023
1/2	NPT3/8	3109 62 18	20	22.1	31	35.1	0.041
	NPT1/2	3109 62 22	24	22.1	28.4	35.1	0.054

Pre-coated thread - 5/32" (4 mm) and 5/16" (8 mm) are also available.
The body swivels for positioning purposes.

3109 Stud Elbow, Male BSPT Thread

Inch

Technical polymer, nickel-plated brass, NBR

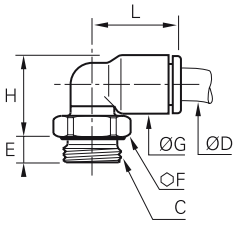


ØD	C		F	G	H	L	kg
1/8	R1/8	3109 53 10	10	8.5	13.5	14.5	0.011
3/16	R1/8	3109 55 10	11	10.9	17	21.6	0.010
	R1/4	3109 55 13	14	8.4	14	14	0.016
1/4	R1/8	3109 56 10	10	10.9	17	18	0.006
	R1/4	3109 56 13	14	10.9	17	18	0.013
3/8	R1/4	3109 60 13	15	16	22.1	26.4	0.016
	R3/8	3109 60 17	17	16	22.1	26.4	0.054
1/2	R1/4	3109 62 13	20	22.1	31	35.1	0.064
	R3/8	3109 62 17	20	22.1	31	35.1	0.067
	R1/2	3109 62 21	24	22.1	28.4	35.1	0.046

Pre-coated thread
The body swivels for positioning purposes.
5/32" (4 mm) and 5/16" (8 mm) are also available.

3199 Stud Elbow, Male BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR



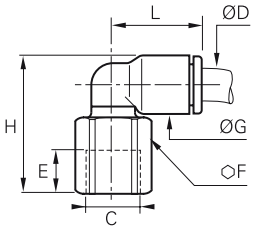
ØD	C		E	F	G	H	L	kg
3	M3x0.5	3199 03 09*	2.5	8	8.5	15	14.5	0.003
	M5x0.8	3199 03 19	3.5	8	8.5	13.5	14.5	0.003
4	M3x0.5	3199 04 09*	2.5	8	8.5	15	14.5	0.002
	M5x0.8	3199 04 19	3.5	8	8.5	13.5	14	0.002
	M7x1	3199 04 55	4.5	10	8.5	15	14	0.005
	G1/8	3199 04 10	5	13	8.5	13	14	0.006
	G1/4	3199 04 13	5.5	16	8.5	13	14	0.011
6	M5x0.8	3199 06 19	3.5	8	10.5	15.5	16	0.003
	M7x1	3199 06 55	4.5	10	10.5	17.5	16	0.006
	M10x1	3199 06 60	5	13	10.5	15	14	0.006
	M12x1.5	3199 06 67	5.5	15	10.5	15	16	0.009
	G1/8	3199 06 10	5	13	10.5	15	16	0.006
	G1/4	3199 06 13	5.5	16	10.5	15	16	0.011
	G3/8	3199 06 17	5.5	20	10.5	15.5	16	0.022
	G1/2	3199 06 21	7	24	10.5	16	16	0.027
8	M10x1	3199 08 60	5	13	13.5	20.5	23	0.009
	M12x1.5	3199 08 67	5.5	15	13.5	19.5	23	0.009
	G1/8	3199 08 10	4.5	13	13.5	20.5	23	0.009
	G1/4	3199 08 13	5.5	16	13.5	18.5	23	0.012
	G3/8	3199 08 17	5.5	20	13.5	18.5	23	0.017
	G1/2	3199 08 21	7	24	13.5	19	23	0.027
10	G1/4	3199 10 13	5.5	16	16	23.5	26.5	0.014
	G3/8	3199 10 17	5.5	20	16	22	26.5	0.017
	G1/2	3199 10 21	7.5	24	16	22	26.5	0.026
12	G1/4	3199 12 13	5.5	16	19	26.5	31	0.016
	G3/8	3199 12 17	5.5	20	19	25	31	0.019
	G1/2	3199 12 21	7	24	19	25	31	0.029
14	G3/8	3199 14 17	5.5	20	22	32.5	35.5	0.029
	G1/2	3199 14 21	7	24	22	27	35.5	0.028
16	G3/8	3199 16 17	7.5	27	27	54.5	39	0.101
	G1/2	3199 16 21	9	27	27	54.5	39	0.097

The body swivels for positioning purposes.
*Bi-material seal

Stud Fittings

3192 Stud Elbow, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

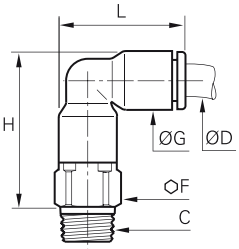


ØD	C		E	F	G	H	L	kg
4	G1/8	3192 04 10	8.5	13	8.5	23	14	0.010
	G1/4	3192 04 13	11.5	16	8.5	27	14	0.017
6	G1/8	3192 06 10	8.5	13	10.5	25	16	0.010
	G1/4	3192 06 13	11.5	16	10.5	29	16	0.017
8	G1/8	3192 08 10	8.5	13	13.5	28	23	0.012
	G1/4	3192 08 13	11.5	16	13.5	32	23	0.020
	G3/8	3192 08 17	12	19	13.5	33	23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

The body swivels for positioning purposes.

3129 Extended Stud Elbow, Male BSPT Thread

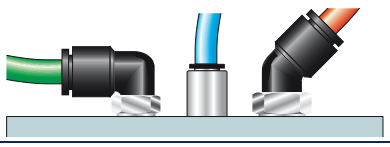
Technical polymer, nickel-plated brass, NBR



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

Pre-coated thread
The body swivels for positioning purposes.

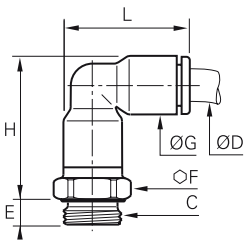
Parker Legris offers the solution to enable many types of configuration options.



Stud Fittings

3169 Extended Stud Elbow, Male BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR

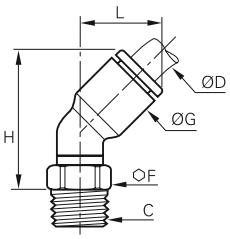


ØD	C		E	F	G	H	L	kg
4	M5x0.8	3169 04 19	3.5	8	8.5	23	19	0.005
	M7x1	3169 04 55	4.5	10	8.5	22.5	19	0.008
	G1/8	3169 04 10	5	13	8.5	22.5	19	0.009
	G1/4	3169 04 13	5.5	16	8.5	22.5	19	0.014
6	M5x0.8	3169 06 19	3.5	10	10.5	27.5	23	0.008
	M7x1	3169 06 55	4.5	10	10.5	26	23	0.012
	G1/8	3169 06 10	5	13	10.5	27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

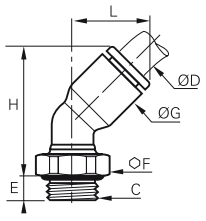


ØD	C		F	G	H	L	kg
4	R1/8	3113 04 10	10	9	21	13	0.006
6	R1/8	3113 06 10	10	11	24.5	14.5	0.006
	R1/4	3113 06 13	14	11	25	14.5	0.015
8	R1/8	3113 08 10	10	13.5	30	19.5	0.008
	R1/4	3113 08 13	14	13.5	28.5	19.5	0.015
	R3/8	3113 08 17	17	13.5	28.5	19.5	0.020
10	R1/4	3113 10 13	15	16	33.5	23	0.014
	R3/8	3113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



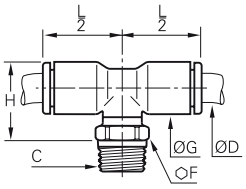
ØD	C		E	F	G	H	L	kg
4	M5x0.8	3133 04 19	3.5	8	9	23	13	0.003
	G1/8	3133 04 10	4.5	13	9	20.5	13	0.006
6	M5x0.8	3133 06 19	3.5	8	11	28	14.5	0.003
	G1/8	3133 06 10	4.5	13	11	24	14.5	0.006
	G1/4	3133 06 13	5.5	16	11	24	14.5	0.011
8	G1/8	3133 08 10	4.5	13	13.5	31	19.5	0.011
	G1/4	3133 08 13	5.5	16	13.5	29	19.5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

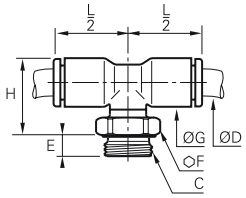


ØD	C		F	G	H	L/2	kg
4	R1/8	3108 04 10	10	8.5	15.5	14	0.006
	R1/4	3108 04 13	14	8.5	16	14	0.015
6	R1/8	3108 06 10	10	10.5	17.5	16	0.007
	R1/4	3108 06 13	14	10.5	18	16	0.016
8	R1/8	3108 08 10	10	13.5	22	23	0.009
	R1/4	3108 08 13	14	13.5	21	23	0.016
	R3/8	3108 08 17	17	13.5	21	23	0.020
10	R1/4	3108 10 13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

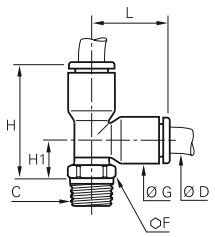


ØD	C		E	F	G	H	L/2	kg
4	M5x0.8	3198 04 19	3.5	8	8.5	17.5	14	0.003
	G1/8	3198 04 10	5	13	8.5	15	14	0.006
	G1/4	3198 04 13	5.5	16	8.5	15	14	0.011
6	M5x0.8	3198 06 19	3.5	8	10.5	19.5	16	0.004
	G1/8	3198 06 10	5	13	10.5	17	16	0.007
	G1/4	3198 06 13	5.5	16	10.5	17	16	0.012
8	G1/8	3198 08 10	4.5	13	13.5	23.5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



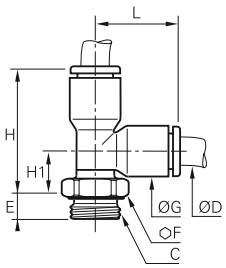
ØD	C		F	G	H	H1	L	kg
4	R1/8	3103 04 10	10	8.5	23.5	9	14.5	0.006
	R1/4	3103 04 13	14	8.5	24	9.5	14.5	0.015
6	R1/8	3103 06 10	10	10.5	27.5	10	17.5	0.007
	R1/4	3103 06 13	14	10.5	28	10.5	17.5	0.016
8	R1/8	3103 08 10	10	13.5	35	12	23	0.009
	R1/4	3103 08 13	14	13.5	34	11	23	0.015
	R3/8	3103 08 17	17	13.5	34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

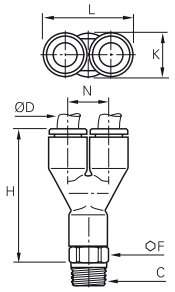


ØD	C		E	F	G	H	H1	L	kg
4	M5x0.8	3193 04 19	3.5	8	8.5	26	11.5	14.5	0.003
	G1/8	3193 04 10	5	13	8.5	23	8.5	14.5	0.006
	G1/4	3193 04 13	5.5	16	8.5	23	8.5	14.5	0.011
6	M5x0.8	3193 06 19	3.5	8	10.5	29.5	12.5	17.5	0.004
	G1/8	3193 06 10	5	13	10.5	27	10	17.5	0.007
	G1/4	3193 06 13	5.5	16	10.5	27	10	17.5	0.012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

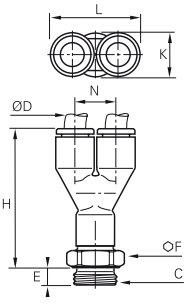


ØD	C		F	H	K	L	N	kg
4	R1/8	3148 04 10	10	32.5	8.5	17.5	9	0.010
	R1/4	3148 04 13	14	33	8.5	17.5	9	0.019
6	R1/8	3148 06 10	10	39.5	10.5	21.5	11	0.011
	R1/4	3148 06 13	14	40	10.5	21.5	11	0.021
8	R1/8	3148 08 10	13	56.5	13.5	28	14.5	0.020
	R1/4	3148 08 13	14	55.5	13.5	28	14.5	0.025
	R3/8	3148 08 17	16	48.5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



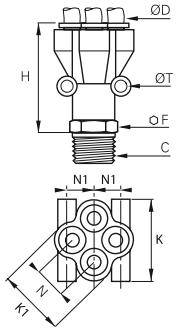
ØD	C		E	F	H	K	L	N	kg
4	M5x0.8	3158 04 19	3.5	8	32.5	8.5	17.5	9	0.006
	G1/8	3158 04 10	5	13	32	8.5	17.5	9	0.009
	G1/4	3158 04 13	5.5	16	32.5	8.5	17.5	9	0.014
6	M5x0.8	3158 06 19	3.5	10	39.5	10.5	21.5	11	0.009
	G1/8	3158 06 10	5	13	39	10.5	21.5	11	0.012
	G1/4	3158 06 13	5.5	16	39.5	10.5	21.5	11	0.017
8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

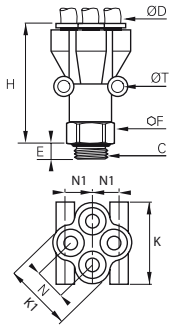


ØD	C		F	H	K	K1	N	N1	ØT	kg
4	R1/8	3112 04 10	13	41.5	25.5	21	10	8.5	3.7	0.023
	R1/4	3112 04 13	14	43.5	25.5	21	10	8.5	3.7	0.027
6	R1/8	3112 06 10	19	54.5	31.5	26.5	12	10	3.7	0.041
	R1/4	3112 06 13	19	57.5	31.5	26.5	12	10	3.7	0.047

Pre-coated thread
The body swivels for positioning purposes.

3132 Double Y, Male BSPP Thread

Technical polymer, nickel-plated brass, NBR

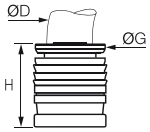


ØD	C		E	F	H	K	K1	N	N1	ØT	kg
4	G1/8	3132 04 10	5	13	41	25.5	21	10	8.5	3.7	0.023
	G1/4	3132 04 13	5.5	16	40	25.5	21	10	8.5	3.7	0.025
6	G1/8	3132 06 10	5	19	53.5	31.5	26.5	12	10	3.7	0.040
	G1/4	3132 06 13	5.5	19	52.5	31.5	26.5	12	10	3.7	0.045

The body swivels for positioning purposes.

3100 Carstick® Cartridge

Brass, NBR



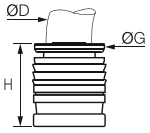
ØD		G	G1	H	L	kg
4	3100 04 00	8	11	10	554	0.001
6	3100 06 00	10	14.5	11.5	629	0.002
8	3100 08 00	13	15	15	794	0.002
10	3100 10 00	15.5	19.5	17	930	0.005
12	3100 12 00	19.5	21	19.5	1038	0.010

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

3100 Carstick® Cartridge

Inch

Nickel-plated brass, NBR



ØD		G	G1	H	L	kg
1/8	3100 53 00 99	7	10	9	508	0.002
1/4	3100 56 00 99	10.5	14.5	12	600	0.003
3/8	3100 60 00 99	15.5	19	16.5	930	0.006

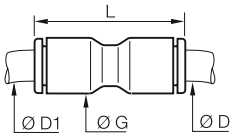
50 cartridges per Carstick®
Cavity dimensions are available in chapter 2.

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

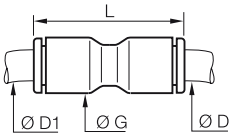
Technical polymer, NBR



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

3106 Equal and Unequal Tube-to-Tube Connector — Inch

Technical polymer, NBR

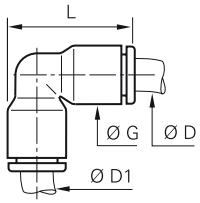


ØD	ØD1		G	L	kg
1/4	1/4	3106 56 00	10.9	29.5	0.002
3/8	3/8	3106 60 00	16	42	0.006
	10	3106 60 10	12	50.5	0.029
	1/4	3106 60 56	16	41	0.016
1/2	1/2	3106 62 00	22	55	0.015

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

3102 Equal and Unequal Elbow

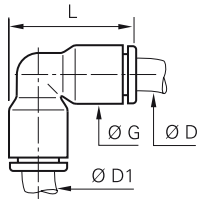
Technical polymer, NBR



ØD	ØD1		G	L	kg
4	4	3102 04 00	8.5	19	0.001
	6	3102 04 06	10.5	22.5	0.004
6	6	3102 06 00	10.5	22.5	0.002
	8	3102 06 08	13.5	29.5	0.009
8	8	3102 08 00	13.5	29.5	0.004
	10	3102 08 10	16	34.5	0.031
10	10	3102 10 00	16	34.5	0.006
	12	3102 10 12	19	40.5	0.022
12	12	3102 12 00	19	40.5	0.010
14	14	3102 14 00	22	46.5	0.015
16	16	3102 16 00	27	52	0.043

3102 Equal Elbow — Inch

Technical polymer, NBR



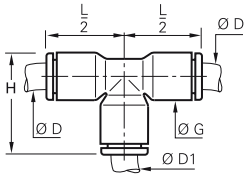
ØD	ØD1		G	L	kg
1/4	1/4	3102 56 00	11	23.5	0.002
3/8	3/8	3102 60 00	16	34	0.006
1/2	1/2	3102 62 00	22	35	0.018

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

Tube-to-Tube Fittings

3104 Equal and Unequal Tee

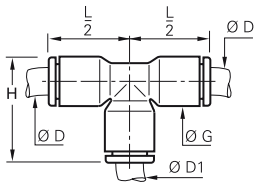
Technical polymer, NBR



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

3104 Equal and Unequal Tee — Inch

Technical polymer, NBR

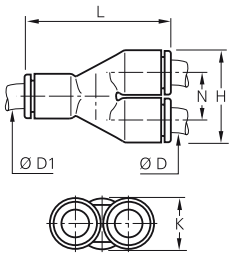


ØD	ØD1		G	H	L/2	kg
5/32	1/4	3104 04 56	11	23.5	18	0.014
1/8	1/8	3104 53 00	8.4	19	14.5	0.003
	1/4	3104 53 56	11	23.5	18	0.011
3/16	3/16	3104 55 00	10.9	27.2	21.6	0.015
1/4	5/32	3104 56 04	11	23.5	18.5	0.014
	1/4	3104 56 00	11	23	24	0.003
	1/8	3104 56 53	11	23.5	18.5	0.007
	3/8	3104 56 60	16	33.5	24.5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

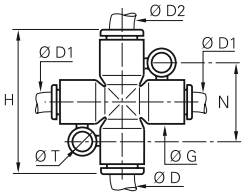


ØD	ØD1		H	K	L	N	kg
4	4	3140 04 00	17.5	8.5	28.5	9	0.002
	6	3140 04 06	17.5	10.5	33	9	0.003
6	6	3140 06 00	21.5	10.5	35	11	0.003
	8	3140 06 08	22.5	13.5	41	11.5	0.005
8	8	3140 08 00	28	13.5	45	14.5	0.007
	10	3140 08 10	28	16	47	14.5	0.011
10	10	3140 10 00	33	16	53	17	0.010
	12	3140 10 12	33	19	57	17	0.018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

Tube-to-Tube Fittings

3107 Equal and Unequal Cross

Technical polymer, NBR



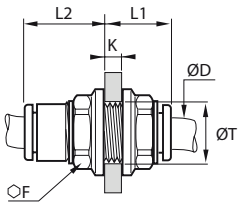
ØD	ØD1	ØD2		G	H	N	ØT	kg
4	4	4	3107 04 00	11	36	20	4.2	0.013
6	4	6	3107 04 06	11	36	20	4.2	0.010
4	4	6	3107 06 04	11	36	20	4.2	0.011
6	6	6	3107 06 00	11	36	20	4.2	0.005
8	6	8	3107 06 08	11	46	22.5	4.2	0.018
6	6	8	3107 08 06	13.5	46	22.5	4.2	0.023
8	8	8	3107 08 00	13.5	46	22.5	4.2	0.020

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

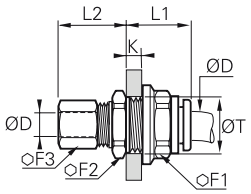
Technical polymer, NBR



ØD		F	K max	L1	L2	ØT min	kg
4	3116 04 00	13	5.5	15	10	10.5	0.003
6	3116 06 00	15	8.5	18	10.5	12.5	0.004
8	3116 08 00	18	14.5	25	13.5	15.5	0.007
10	3116 10 00	22	14.5	27.5	15.5	18.5	0.015
12	3116 12 00	26	18.5	33	18	22.5	0.019
14	3116 14 00	29	20.5	37.5	20.5	25.5	0.028

3146 Equal Mixed Bulkhead Connector

Nickel-plated brass, NBR

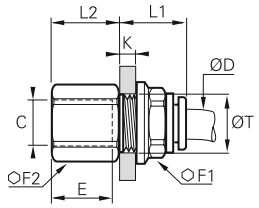


ØD		F1	F2	F3	K max	L1	L2	ØT min	kg
4	3146 04 00	13	13	10	7	17.5	17.5	10.5	0.018
6	3146 06 00	15	17	13	8	19	18	12.5	0.029
8	3146 08 00	18	19	14	8	20.5	20.5	15.5	0.036
10	3146 10 00	22	22	19	8.5	23	24.5	18.5	0.065
12	3146 12 00	26	25	22	8.5	27	25	22.5	0.096
14	3146 14 00	29	29	24	10.5	27	27	25.5	0.125

Push-in connection with compression fitting

3136 Bulkhead Connector, Female BSPP Thread

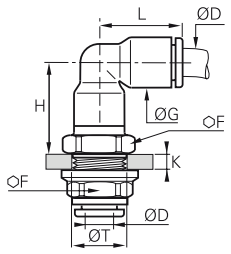
Nickel-plated brass, NBR



ØD	C		E	F1	F2	K max	L1	L2	ØT min	kg
4	G1/8	3136 04 10	9.5	13	13	7	17	11.5	10.5	0.015
	G1/4	3136 04 13	13.5	13	16	7	17	15.5	10.5	0.021
6	G1/8	3136 06 10	9.5	15	15	8	19	10.5	12.5	0.020
	G1/4	3136 06 13	13.5	15	17	7	19	15.5	12.5	0.027
	G3/8	3136 06 17	12	15	22	8	19	16	12.5	0.041
8	G1/8	3136 08 10	9.5	18	17	8	20.5	10.5	15.5	0.029
	G1/4	3136 08 13	13.5	18	17	8	20.5	14.5	15.5	0.029
10	G3/8	3136 10 17	14	22	22	8.5	23	16	18.5	0.051
12	G3/8	3136 12 17	14	26	24	8.5	27	16	22.5	0.078
	G1/2	3136 12 21	19.5	26	27	8.5	27	21.5	22.5	0.097
16	G3/8	3136 16 17	12	29	29	10.5	30	15	27.5	0.125
	G1/2	3136 16 21	15	29	29	10.5	30	19.5	27.5	0.126

3139 Equal Bulkhead Elbow

Technical polymer, nickel-plated brass, NBR



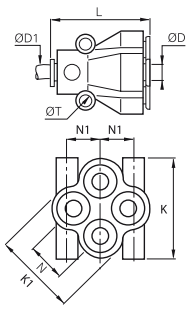
ØD		F	G	H	K max	L	ØT min	kg
4	3139 04 00	13	8.5	17	6.5	14.5	10.5	0.014
6	3139 06 00	15	10.5	19.5	7	17.5	12.5	0.021
8	3139 08 00	18	13.5	24	8	23	15.5	0.032
10	3139 10 00	22	16	28	8.5	26	18.5	0.050
12	3139 12 00	26	19	33	8.5	31	22.5	0.086
14	3139 14 00	29	25.5	37.5	10.5	36	25.5	0.116

The body swivels for positioning purposes.

Multiple Fittings

3144 Equal and Unequal Multiple Y Piece

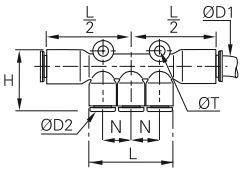
Technical polymer, NBR



ØD	ØD1		K	K1	L	N	N1	ØT	kg
4	4	3144 04 04	25.5	21	30.5	10	8.5	3.7	0.015
	6	3144 04 06	26	21	30.5	10	10	3.7	0.013
6	6	3144 06 06	31.5	26.5	37.5	12	8.5	3.7	0.034
	8	3144 06 08	31.5	26.5	38	12	10	3.7	0.026

3304 Multiple Tee

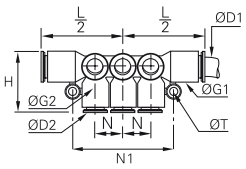
Technical polymer, NBR



ØD1	ØD2		H	L	L/2	N	ØT	kg
6	4	3304 06 04	24.5	34	37	11.5	4.2	0.015
8	4	3304 08 04	24.5	34	37	11.5	4.2	0.012
	6	3304 08 06	24.5	34	37	11.5	4.2	0.010
10	6	3304 10 06	36	44	40.5	14.5	4.2	0.019
	8	3304 10 08	36	44	40.5	15.5	4.2	0.015

3306 90° Multiple Elbow

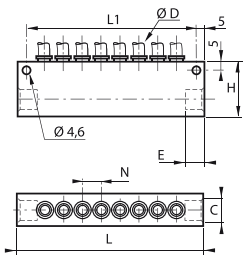
Technical polymer, NBR



ØD1	ØD2		G	G1	H	L/2	N	N1	ØT	kg
6	4	3306 06 04	13.5	11	18.5	36	43	11.5	4.2	0.034
8	4	3306 08 04	13.5	11	18.5	36.5	43	11.5	4.2	0.025
	6	3306 08 06	13.5	11	18.5	36.5	43	11.5	4.2	0.022
10	6	3306 10 06	16	13.5	23	42	52	14.5	4.2	0.048
	8	3306 10 08	16	13.5	23.5	42	52	14.5	4.2	0.036

3310 In-Line Manifold

Treated aluminium, NBR

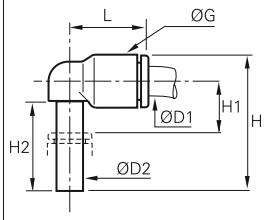


ØD	C		Number of Outlets	E	H	L	L1	N	kg
4	G1/4	3310 04 13	8	10	33	114	104	11.5	0.175
6	G1/4	3310 06 13	8	10	33	114	104	12.5	0.170
8	G3/8	3310 08 17	6	12	33	114	104	15	0.157
10	G1/2	3310 10 21	6	16	48	145.5	135.5	17	0.348
12	G1/2	3310 12 21	6	16	45	158	148	20.5	0.370

Plug-In Fittings and Accessories

3182 Equal and Unequal Plug-In Elbow

Technical polymer, NBR

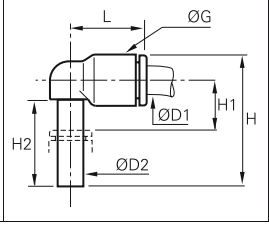


ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3182 04 00	8.5	23	6	15.5	14	0.001
	6	3182 04 06	10.5	26.5	7	17	16	0.003
6	4	3182 06 04	10.5	24.5	7	15.5	16	0.001
	6	3182 06 00	10.5	26.5	7	17	16	0.001
	8	3182 06 08	13.5	33.5	8	21.5	23	0.007
8	8	3182 08 00	13.5	33.5	8	21.5	23	0.003
	10	3182 08 10	16	39	10	24.5	26.5	0.010
10	10	3182 10 00	16	39	10	24.5	26.5	0.004
	12	3182 10 12	19	44.5	10.5	27.5	31	0.017
12	12	3182 12 00	19	45.5	10.5	27.5	31	0.007

3182 Equal Plug-In Elbow

Inch

Technical polymer, NBR

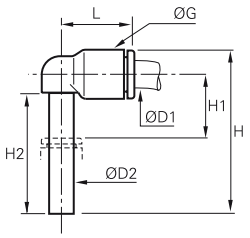


ØD1	ØD2		G	H	H1	H2	L	kg
1/4	1/4	3182 56 00	11	27.5	7.5	18	18.5	0.002
3/8	3/8	3182 60 00	16	38.5	9	24	26	0.010
1/2	1/2	3182 62 00	22	51	13	28	35	0.030

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

3184 Extended Equal and Unequal Plug-In Elbow

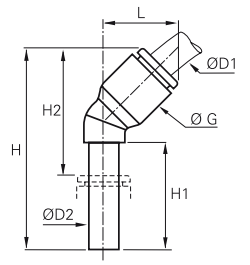
Technical polymer, NBR



ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3184 04 00	8.5	32.5	15.5	25	14	0.004
	6	3184 04 06	10.5	38.5	19	29	16	0.004
6	6	3184 06 00	10.5	38.5	19	29	16	0.002
	8	3184 06 08	13.5	49	23.5	37	23	0.010
8	8	3184 08 00	13.5	49	23.5	37	23	0.003
	10	3184 08 10	16	56	26.5	41.5	26.5	0.013
10	10	3184 10 00	16	56	26.5	41.5	26.5	0.010
	12	3184 10 12	19	62.5	28	45.5	31	0.020
12	12	3184 12 00	19	62.5	28	45.5	31	0.014

3180 45° Plug-In Equal Elbow

Technical polymer, NBR

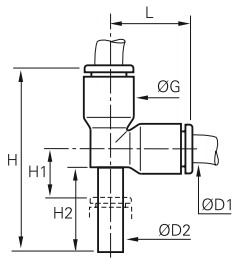


ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3180 04 00	9	33.5	19	21	13	0.001
6	6	3180 06 00	11	39	21	25	14.5	0.003
8	8	3180 08 00	13.5	44	21.5	25.5	19.5	0.005
10	10	3180 10 00	16	53	27	32.5	23	0.004
12	12	3180 12 00	19	58.5	27.5	34	26.5	0.007

Plug-In Fittings and Accessories

3183 Equal and Unequal Plug-In Run Tee

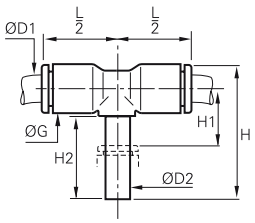
Technical polymer, NBR



ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3183 04 00	8.5	33	6	15.5	14.5	0.002
	6	3183 04 06	10.5	38.5	7	17	17.5	0.006
6	6	3183 06 00	10.5	38.5	7	17	17	0.002
	8	3183 06 08	13.5	48.5	8	21.5	23	0.014
8	8	3183 08 00	13.5	49	8	21.5	23	0.004
	10	3183 08 10	16	56.5	10.5	24.5	26.5	0.018
10	10	3183 10 00	16	57	10.5	24.5	26.5	0.007
	12	3183 10 12	19	65.5	10.5	27.5	31	0.034
12	12	3183 12 00	19	65.5	10.5	27.5	31	0.011

3188 Equal and Unequal Plug-In Branch Tee

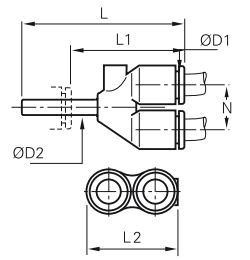
Technical polymer, NBR



ØD1	ØD2		G	H	H1	H2	L/2	kg
4	4	3188 04 00	8.5	25	8	15.5	14.5	0.002
	6	3188 04 06	10.5	28.5	9	17	16	0.007
6	6	3188 06 00	10.5	28.5	9	17	16	0.002
	8	3188 06 08	13.5	36.5	11	21.5	22	0.014
8	8	3188 08 00	13.5	36.5	11	21.5	23	0.005
	10	3188 08 10	16	41	12.5	24.5	26.5	0.018
10	10	3188 10 00	16	41	12.5	24.5	26.5	0.007
	12	3188 10 12	19	46.5	12.5	27.5	31	0.034
12	12	3188 12 00	19	46.5	12.5	27.5	31	0.020

3142 Equal and Unequal Plug-In Single Y Piece

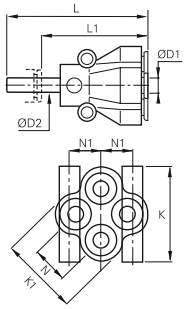
Technical polymer, NBR



ØD1	ØD2		L	L1	L2	N	kg
4	4	3142 04 00	34	21.5	17.5	9	0.002
	6	3142 04 06	35.5	21.5	17.5	9	0.004
6	6	3142 06 00	39.5	25.5	21.5	11	0.004
	8	3142 06 08	44	25.5	21.5	11	0.015
8	8	3142 08 00	50.5	32	28	14.5	0.007
	10	3142 08 10	53.5	32	28	14.5	0.024
10	10	3142 10 00	57.5	36	33	17	0.010
	12	3142 10 12	60	35	33	17	0.037
12	12	3142 12 00	66	41	39	20	0.017

3143 Multiple Plug-In Y Piece

Technical polymer, nickel-plated brass, NBR

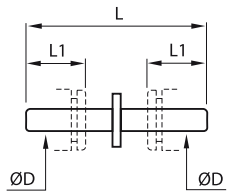


ØD1	ØD2		K	K1	L	L1	N	N1	kg
4	6	3143 04 06	26	21.5	49.5	35.5	11	8.5	0.012
	8	3143 04 08	26	21.5	51	32	11	8.5	0.021
6	8	3143 06 08	31.5	26.5	57.5	39	12	10	0.035

Plug-In Fittings and Accessories

3120 Stem Connector

Technical polymer

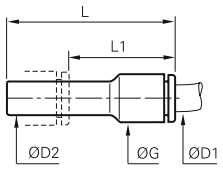


ØD		L	L1	kg
4	3120 04 00	34.5	12	0.001
6	3120 06 00	38.5	14	0.001
8	3120 08 00	41	18.5	0.001
10	3120 10 00	51.5	20.5	0.002
12	3120 12 00	60	24.5	0.004
14	3120 14 00	69.5	25.5	0.007

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

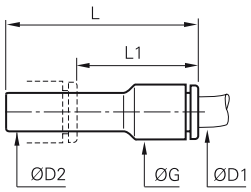
Technical polymer, NBR



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

3166 Plug-In Reducer — Inch

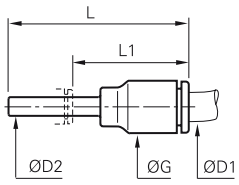
Technical polymer, NBR



ØD1	ØD2		G	L	L1	kg
1/4	5/16	3166 56 08	11	41	23	0.002
	3/8	3166 56 60	11	41	21	0.002

3168 Plug-In Increaser

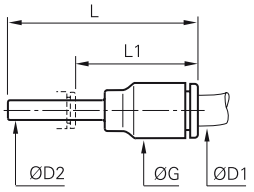
Technical polymer, NBR



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

3168 Plug-In Increaser — Inch

Technical polymer, NBR

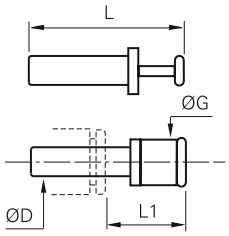


ØD1	ØD2		G	L	L1	kg
1/4	5/32	3168 56 04	11	41	29	0.001
	3/16	3168 56 55	20.5	41	25	0.003

Plug-In Fittings and Accessories

3126 Blanking Plug

Technical polymer

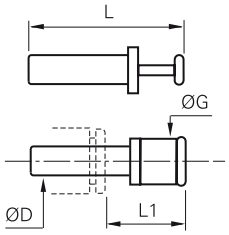


ØD		G	L	L1	kg
3	3126 03 00	6	25	13.5	0.001
4	3126 04 00	4	30	15.5	0.001
6	3126 06 00	8	33	16.5	0.001
8	3126 08 00	10	35	17.5	0.001
10	3126 10 00	12	42	21	0.002
12	3126 12 00	14	45	22	0.003
14	3126 14 00	16	49	23.5	0.005
16	3126 16 00*	19	57	30	0.063

*Nickel-plated brass

3126 Blanking Plug — Inch

Technical polymer

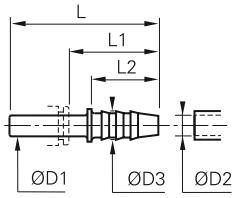


ØD		G	L	L1	kg
1/4	3126 56 00	8	36.5	22	0.001
3/8	3126 60 00	12	42	22	0.002
1/2	3126 62 00	15	48.5	21.5	0.003

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

3122 Plug-In Barb Connector

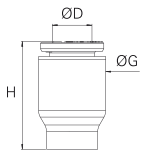
Technical polymer



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

3151 End Cap

Technical polymer, NBR



ØD		G	H	kg
4	3151 04 00	8.5	14.7	0.001
6	3151 06 00	10.5	16.9	0.001
8	3151 08 00	13.5	21.9	0.002
10	3151 10 00	16	22.2	0.003
12	3151 12 00	19	27.7	0.006
14	3151 14 00	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

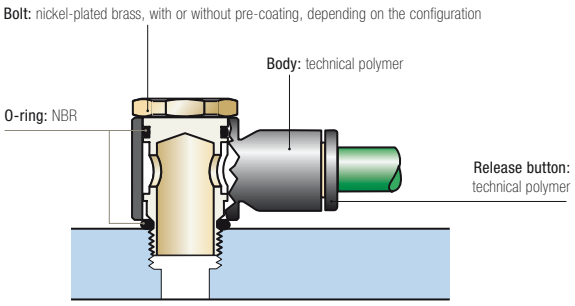
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	Vacuum to 20 bar
Working Temperature	-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



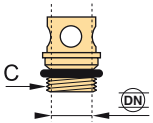
Silicone-free

Regulations

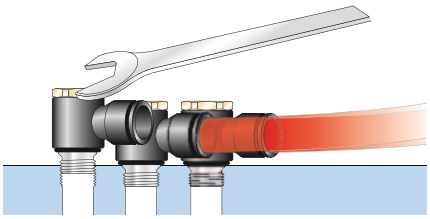
ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
DI: 97/23/EC (PED)
DI : 2002/95/EC (RoHS) 2011/65/EC
DI : 1907/2006 (REACH)

Installation Configurations

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



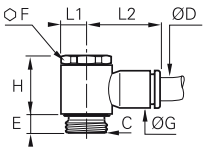
Thread (C)	M5x0.8	G1/8	G1/4	G3/8	G1/2
DN	2.5	5.5	8.5	11	13



Banjo Fittings

3118 Single Banjo, Male BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR

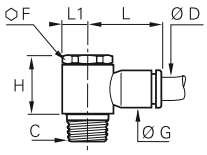


ØD	C		E	F	G	H	L1	L2	kg
3	M3x0.5	3118 03 09*	3	-	8.5	13	5	16	0.005
	M5x0.8	3118 03 19*	4	-	8.5	13	5	16	0.005
4	M5x0.8	3118 04 19*	4	-	8.5	13	5	16.5	0.004
	G1/8	3118 04 10	4	13	8.5	17	7	18.5	0.012
6	M5x0.8	3118 06 19*	4	-	10.5	13	7	18.5	0.004
	G1/8	3118 06 10	4	13	10.5	17	7	20	0.013
	G1/4	3118 06 13	5.5	17	10.5	21	9.5	22	0.023
8	G1/8	3118 08 10	4	13	13.5	16.5	7	25	0.013
	G1/4	3118 08 13	5.5	17	13.5	21	9	27	0.024
	G3/8	3118 08 17	5.5	20	13.5	24.5	11	29	0.038
10	G1/4	3118 10 13	5.5	17	16	21	9.5	29	0.025
	G3/8	3118 10 17	5.5	20	16	24.5	11	31	0.039
	G1/2	3118 10 21	8	25	19	27.5	13.5	36.5	0.083
12	G3/8	3118 12 17	5.5	20	19	24.5	11	34.5	0.044
	G1/2	3118 12 21	8	25	19	27.5	13.5	36.5	0.074

*With screwdriver slot

3018 Single Banjo, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

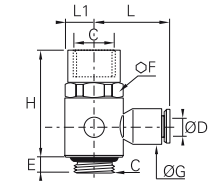


ØD	C		F	G	H	L	L1	kg
4	R1/8	3018 04 10	13	8.5	18.5	18.5	7	0.015
6	R1/8	3018 06 10	13	10.5	18.5	20	7	0.015
	R1/4	3018 06 13	17	10.5	22.5	22	9.5	0.029
8	R1/8	3018 08 10	13	13.5	18.5	25	7	0.016
	R1/4	3018 08 13	17	13.5	22.5	27	9.5	0.030
	R3/8	3018 08 17	21	13.5	26.5	29	11	0.047
10	R1/4	3018 10 13	17	16	22.5	29	9.5	0.032
	R3/8	3018 10 17	21	16	26.5	31	11	0.048
12	R1/4	3018 12 13	21	19	26.5	34.5	11	0.052
	R3/8	3018 12 17	21	19	26.5	34.5	11	0.050
	R1/2	3018 12 21	25	19	30	37	13.5	0.086

Pre-coated thread

3124 Single Banjo, Male/Female BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR

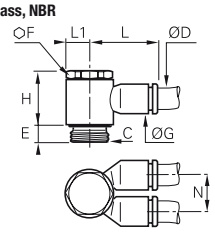


ØD	C		E	F	G	H	L	L1	kg
4	M5x0.8	3124 04 19	4	8	8.5	19	16	5	0.006
	G1/8	3124 04 10	4	13	8.5	25.5	18.5	7	0.015
6	G1/4	3124 06 13	5.5	17	10.5	33	22	9	0.030
8	G3/8	3124 08 17	5.5	20	13.5	37.5	29	11	0.056

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

3149 Twin Banjo, Male BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR

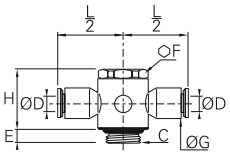


ØD	C		E	F	G	H	L	L1	N	kg
4	M5x0.8	3149 04 19*	4	-	8.5	13	16	4.5	9	0.005
	G1/8	3149 04 10	4	13	10.5	16.5	18.5	7	11.5	0.018
6	G1/8	3149 06 10	4	13	10.5	16.5	18.5	7	11.5	0.014
	G1/4	3149 06 13	5.5	17	13.5	21	27	9.5	14.5	0.035
8	G1/4	3149 08 13	5.5	17	13.5	21	27	9.5	14.5	0.026
	G3/8	3149 08 17	5.5	20	16	24.5	31	11	17	0.053
10	G3/8	3149 10 17	5.5	20	16	24.5	31	11	17	0.042

*With screwdriver slot

3119 Double Banjo, BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR



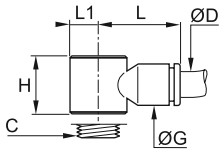
ØD	C		E	F	G	H	L/2	kg
4	M5x0.8	3119 04 19*	4	-	8.5	13	8	0.005
	G1/8	3119 04 10	4	13	11	17	20	0.021
6	G1/8	3119 06 10	4	13	11	17	20	0.024
	G1/4	3119 06 13	5.5	17	13.5	21	26.5	0.031
8	G1/4	3119 08 13	5.5	17	13.5	21	27	0.033
	G3/8	3119 08 17	5.5	20	16	24.5	30.5	0.053
10	G3/8	3119 10 17	5.5	20	16	24.5	31	0.045

*With screwdriver slot

Banjo Fittings

3538 Single Banjo Bodies

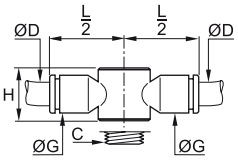
Technical polymer, NBR



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

3539 Double Banjo Bodies

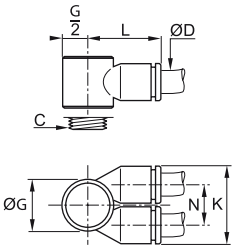
Technical polymer, NBR



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

3549 Twin Banjo Bodies

Technical polymer, NBR

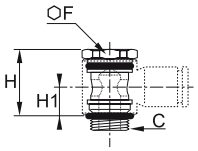


ØD	C		G	K	L	N	kg
4	M5x0.8	3549 04 19	10	17.5	15.5	9	0.003
	G1/8	3549 04 10	14	22.5	20	12	0.007
	G1/4	3549 04 13	18.5	28	25	14.5	0.019
6	G1/8	3549 06 10	14	22.5	20.5	12	0.003
	G1/4	3549 06 13	18.5	28	25	14.5	0.017
	G3/8	3549 06 17	22.5	33	28.5	17	0.013
8	G1/4	3549 08 13	18.5	28	26	14.5	0.010
	G3/8	3549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

Modular Banjo Fittings

3527 Single Banjo Bolts, Male BSPP and Metric Thread

Nickel-plated brass, NBR

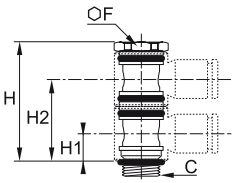


C		F	H	H1	kg
M5x0.8	3527 00 19*	-	17	7.5	0.003
G1/8	3527 00 10	13	17	7.5	0.011
G1/4	3527 00 13	17	21	9.5	0.020
G3/8	3527 00 17	20	24.5	11	0.033
G1/2	3527 00 21	25	27.5	11.5	0.063

*With screwdriver slot
Full bore

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

Nickel-plated brass, NBR

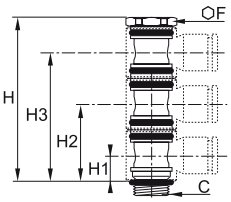


C		F	H	H1	H2	kg
M5x0.8	3528 00 19*	-	24.5	7.5	18.5	0.005
G1/8	3528 00 10	13	31	7.5	22	0.017
G1/4	3528 00 13	17	39	9.5	27.5	0.031
G3/8	3528 00 17	20	46	11	32.5	0.053

*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

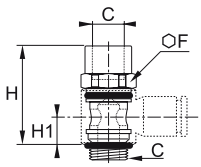


C		F	H	H1	H2	H3	kg
G1/8	3529 00 10	13	45.5	7.5	22	36	0.023
G1/4	3529 00 13	17	54	9.5	27.5	45.5	0.042
G3/8	3529 00 17	20	67.5	11	32.5	54	0.069

Full bore
Designed for use with 3 banjo bodies

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

Nickel-plated brass, NBR



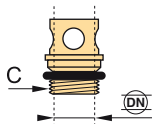
C		F	H	H1	kg
M5x0.8	3524 00 19	8	17	7.5	0.005
G1/8	3524 00 10	13	24.5	7.5	0.013
G1/4	3524 00 13	17	33	9.5	0.027
G3/8	3524 00 17	20	37.5	11	0.038
G1/2	3524 00 21	26	42	11.5	0.067

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
DN	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 Ω
- Channels or slots for labels for tube identification

Applications

Robotics
Automotive Process
Pneumatics
Semi-Conductors
Textile
Packaging

Technical Characteristics

Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	Vacuum to 10 bar
Working Temperature	-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

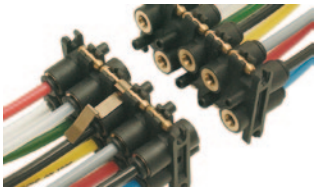
Multi-connectors:
- panel-mounted: zinc-plated steel, technical polymer
- in-line: aluminium, technical polymer
- DIN rail: technical polymer

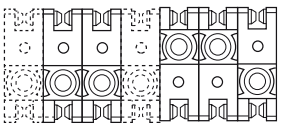
Connections: LF 3000®

Silicone-free

Installation Configurations

Panel-Mounted





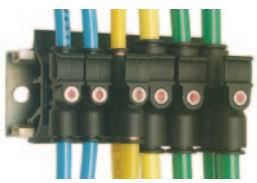
A box contains:
- 10 units
- 20 joining clips and 4 end pins
- 4 mounting brackets
- 4 coupling clips
- 1 dismantling tool

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

DIN Rail Connector



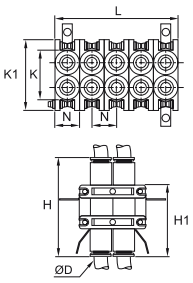
Regulations

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)

Modular Plug-In Connectors

3300 Modular Plug-In Connector

Technical polymer, NBR

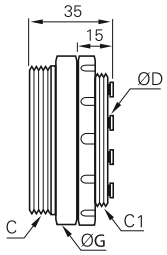


ØD		B	H	H1	K	K1	L	L1	L2	N	kg
4	3300 04 00	21	40.5	29.5	32	20	55	22	6	11	0.078
6	3300 06 00	28	48	38.5	39	27.5	70	28	7.5	14	0.213
8	3300 08 00	28	50	39	39	27.5	70	28	7.5	14	0.025

Clearance hole for Ø3 mm screw

3320 Multi-Connector Male Screw Body

Technical polymer, NBR

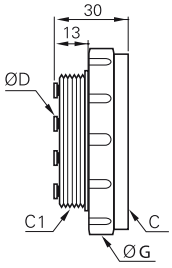


ØD	C	C1		Number of Outlets	G	kg
4	M38x1.5	M32x1.5	3320 04 00 02	2	42	0.046
	M46x1.5	M40x1.5	3320 04 00 04	4	50	0.070
	M46x1.5	M40x1.5	3320 04 00 07	7	50	0.072
	M65x1.5	M58x1.5	3320 04 00 12	12	70	0.136
6	M38x1.5	M32x1.5	3320 06 00 02	2	42	0.050
	M46x1.5	M40x1.5	3320 06 00 04	4	50	0.070
	M46x1.5	M40x1.5	3320 06 00 07	7	50	0.070
8	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

Technical polymer, NBR

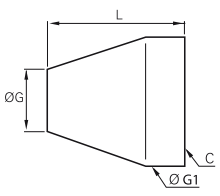


ØD	C	C1		Number of Outlets	G	kg
4	M38x1.5	M32x1.5	3321 04 00 02	2	45	0.040
	M46x1.5	M40x1.5	3321 04 00 04	4	55	0.065
	M46x1.5	M40x1.5	3321 04 00 07	7	55	0.063
	M65x1.5	M58x1.5	3321 04 00 12	12	75	0.124
6	M38x1.5	M32x1.5	3321 06 00 02	2	45	0.043
	M46x1.5	M40x1.5	3321 06 00 04	4	55	0.066
	M46x1.5	M40x1.5	3321 06 00 07	7	55	0.064
8	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.

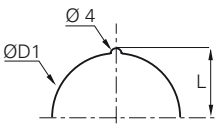
3329 Multi-Connector Screw Cap

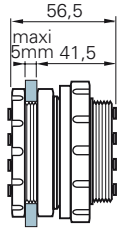
Technical polymer



C		Number of Outlets	G	G1	L	kg
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



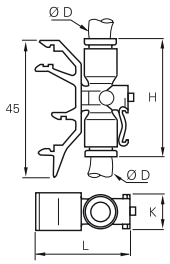


Number of Outlets	L	ØD1
2	17	32.5
4-7	21	40.5
12	30.3	58.5

Modular Plug-In Connectors

3379 DIN Rail Connector for 2 Tubes

Technical polymer, NBR

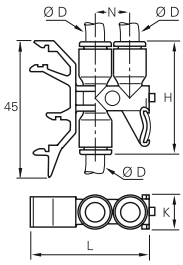


ØD		H	K	L	kg
4	3379 04 00	34.5	11	39.5	0.016
6	3379 06 00	34.5	11	39.5	0.026
8	3379 08 00	46	13	44.5	0.034

Start pressure test point on the system

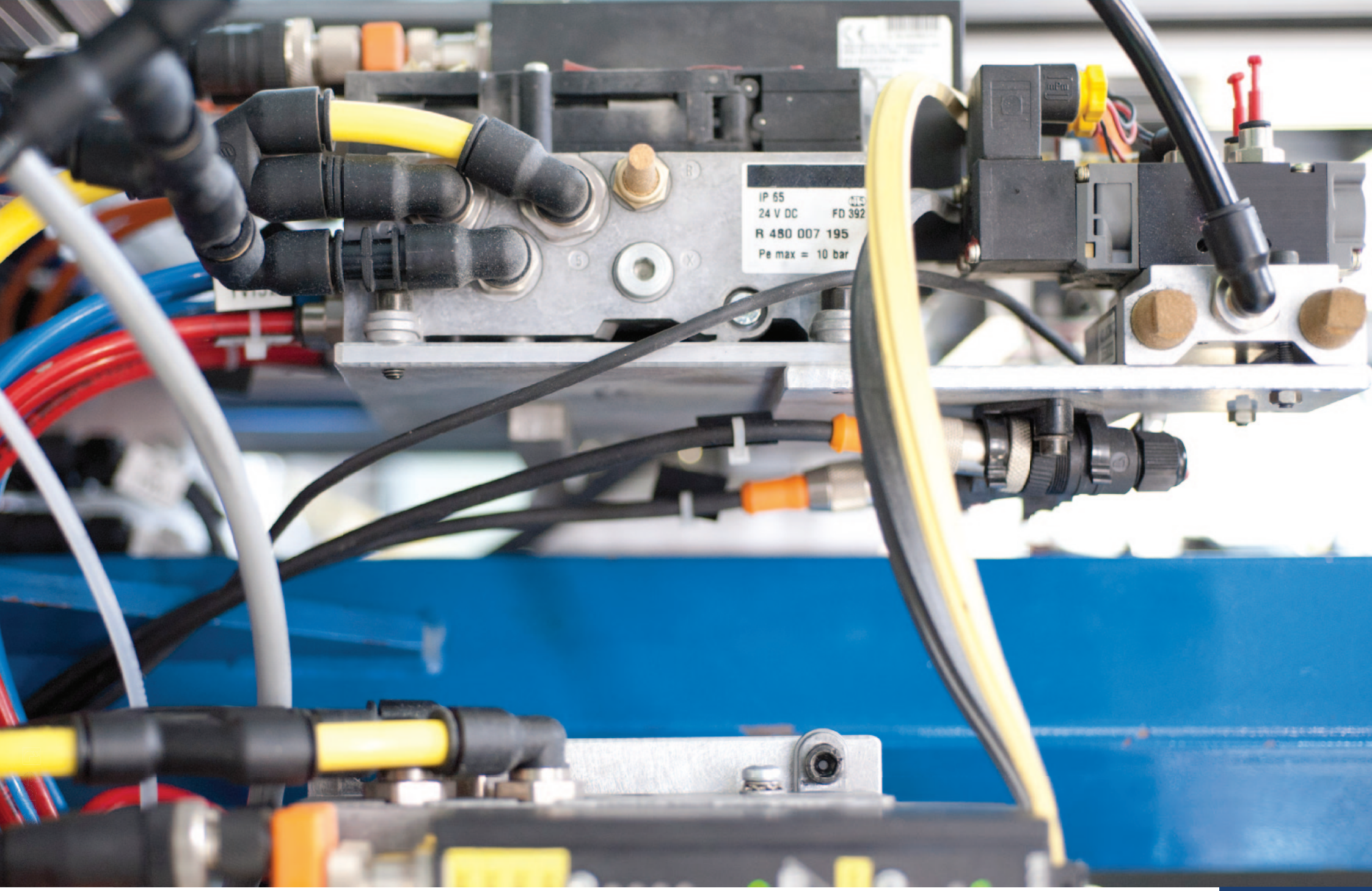
3381 DIN Rail Connector for 3 Tubes

Technical polymer, NBR



ØD		H	K	L	N	kg
4	3381 04 00	36.5	11	39.5	11.5	0.012
6	3381 06 00	36.5	11	39.5	11.5	0.008
8	3381 08 00	46	13	44.5	14.5	0.013

Start pressure test point on the system


IP 65
24 V DC
FD 392
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

Applications

Robotics
Automotive Process
Pneumatics
Semi-Conductors
Textile
Packaging

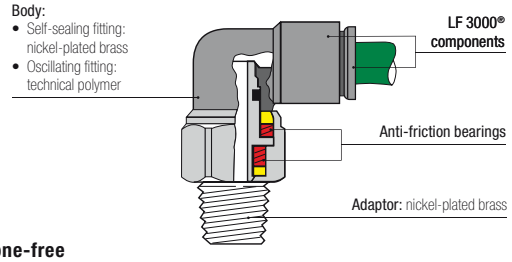
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	Vacuum to 20 bar (10 bar: self-sealing fitting)
Working Temperature	-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

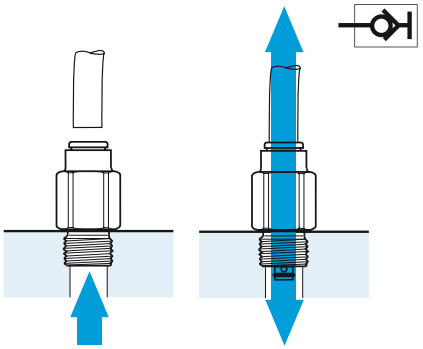
Regulations

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)

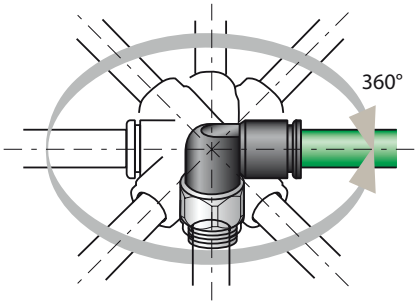
Installation Configurations

Self-Sealing Fitting



Oscillating Fitting

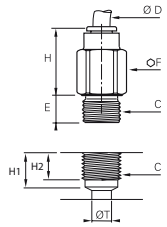
Tube O.D. (mm)	Torque (daN.m)	Max. Rotation Speed (turn/min.)
4	$<2.5.10^{-3}$	190
6	$<4.10^{-3}$	160
8	$<7.10^{-3}$	120
10	$<11.10^{-3}$	90
12	$<16.10^{-3}$	80



Self-Sealing and Oscillating Fittings

3391 Self-Sealing Stud Fitting, Male BSPP Thread

Nickel-plated brass, NBR

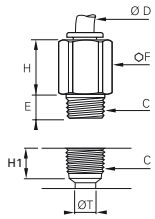


ØD	C		E	F	H	H1	H2	ØT	kg
4	G1/8	3391 04 10	5	13	18	7.5	6	5	0.017
6	G1/8	3391 06 10	5	14	19.5	9	6	7.5	0.019
8	G1/8	3391 08 10	5	14	29.5	10	6	7.5	0.025
	G1/4	3391 08 13	5.5	16	25.5	11	8	9	0.032
10	G3/8	3391 10 17	5.5	20	27.5	13	11	10	0.055

Maximum working pressure: 10 bar

3091 Self-Sealing Stud Fitting, Male BSPT Thread

Nickel-plated brass, NBR

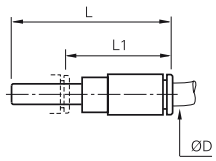


ØD	C		E	F	H	H1	ØT	kg
4	R1/8	3091 04 10	7.5	12	18	9.5	5	0.015
6	R1/8	3091 06 10	7.5	13	19.5	9.5	7.5	0.015
8	R1/8	3091 08 10	6.5	14	25	10.5	7.5	0.024
	R1/4	3091 08 13	11	14	25.5	13.5	9	0.021
10	R3/8	3091 10 17	11.5	17	27.5	14	10	0.035

Maximum working pressure: 10 bar
Pre-coated thread

3160 Self-Sealing Plug-In Fitting

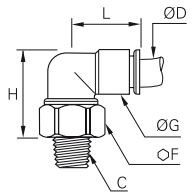
Technical polymer, NBR



ØD		L	L1	kg
4	3160 04 00	46	33.5	0.006
6	3160 06 00	53.5	31	0.009
8	3160 08 00	58	31	0.014

3159 Oscillating Elbow, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

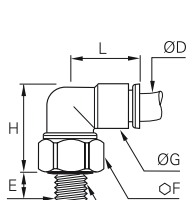


ØD	C		F	G	H	L	kg
4	R1/8	3159 04 10	12	11	22	17.5	0.012
6	R1/8	3159 06 10	14	14	26.5	20.5	0.014
	R1/4	3159 06 13	14	14	23.5	20.5	0.022
8	R1/8	3159 08 10	17	16	32	23.5	0.036
	R1/4	3159 08 13	17	16	29	23.5	0.037
	R3/8	3159 08 17	17	16	25	23.5	0.033
10	R1/4	3159 10 13	19	19.5	37.5	29	0.053
	R3/8	3159 10 17	19	19.5	33.5	29	0.045
12	R1/4	3159 12 13	21	22	44.5	33.5	0.080
	R3/8	3159 12 17	21	22	41	33.5	0.070

Pre-coated thread

3189 Oscillating Elbow, Male BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	G	H	L	kg
4	M5x0.8	3189 04 19	3	12	11	24.5	17.5	0.012
	G1/8	3189 04 10	5	13	11	23	17.5	0.013
6	M5x0.8	3189 06 19	3	12	14	27.5	20.5	0.017
	G1/8	3189 06 10	5	14	14	27	20.5	0.019
	G1/4	3189 06 13	5.5	16	14	25.5	20.5	0.023
8	G1/8	3189 08 10	5	17	16	33.5	23.5	0.034
	G1/4	3189 08 13	5.5	17	16	31	23.5	0.034
	G3/8	3189 08 17	5.5	20	16	29.5	23.5	0.042
10	G1/4	3189 10 13	5.5	19	19.5	39	29	0.058
	G3/8	3189 10 17	5.5	20	19.5	37	29	0.050
12	G1/4	3189 12 13	5.5	21	22	46.5	33.5	0.074
	G3/8	3189 12 17	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**.

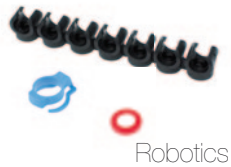
Product Advantages

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

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

Installation Process

Tamper-Proof Safety Clip

1. Assemble the clip
2. Connect the tube
3. Cut the clip with pliers
4. Remove the clip
5. Release the tube

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

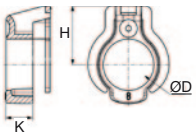
Clips are also designed to fix LF 3000® fittings in series within a minimum of space.

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

Accessories for Push-In Fittings

3130 Tamper-Proof Safety Clip

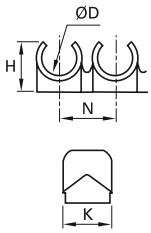
Technical polymer



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

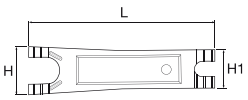


ØD		H	K	N	kg
4	CLIP 04 00	9	13.5	10.5	0.007
6	CLIP 06 00	10.5	13	10.5	0.004
8	CLIP 08 00	12.5	10.5	12	0.007
10	CLIP 10 00	14	12	15	0.005
12	CLIP 12 00	16.5	14	16.5	0.009
14	CLIP 14 00	18	16	20.5	0.008

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

3000 Disonnection Tool

Treated steel



	H	H1	L	kg
3000 70 00	25	20	96	0.021

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

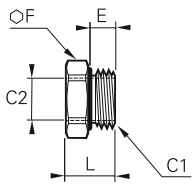
3110 Coloured Release Button Covers

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

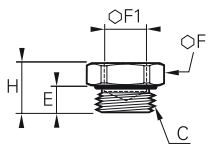


C1	C2		E	F	L	kg
M7x1	M5x0.8	0178 55 19	5	10	12	0.005
G1/8	M5x0.8	0178 10 19	5	13	9	0.006
G1/4	G1/8	0178 13 10	5.5	16	9.5	0.006
G3/8	G1/8	0178 17 10	5.5	20	10.5	0.016
	G1/4	0178 17 13	5.5	20	10.5	0.011
G1/2	G1/4	0178 21 13	7.5	24	12.5	0.024
	G3/8	0178 21 17	7.5	24	12.5	0.016
G3/4	G1/2	0178 27 21	7.5	32	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
Page 1-41

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

Compact & Lightweight

- 25% smaller than other fittings on the market for optimum actuator dimensions
- Minimum weight for maximum efficiency
- Reduces energy consumption and limits actuator wear

Resistance & Performance

- All brass components for excellent impact resistance
- Gripping system with collet for increased robustness and service life
- Excellent resistance to high operating pressures

Reliability

- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Ideal for very sensitive applications
- Corrosion-resistant

Applications

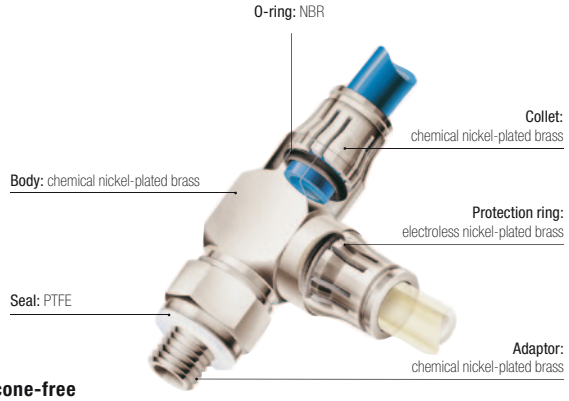
Pneumatic Panels
Robotics
Semi-Conductors
Textile
Pneumatics
Vacuum

Technical Characteristics

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



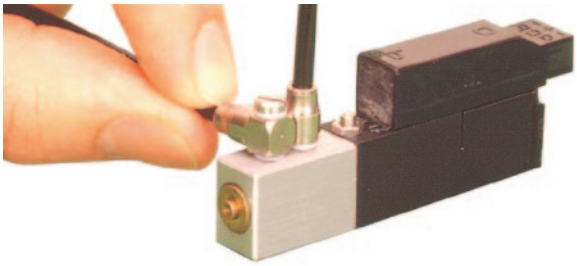
Silicone-free

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



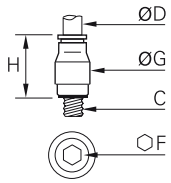
The LF 3200 fitting, connected with a 3 mm polyurethane or antistatic polyurethane tube, is the perfect solution for compact installations:

- which are highly stressed
- whose reliability is critical

Stud Fittings

3281 Stud Fitting, Male Metric Thread

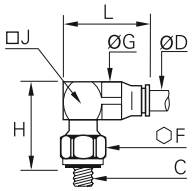
Nickel-plated brass, NBR



ØD	C		F	G	H	kg
3	M3x0.5	3281 03 09	1.5	6	9.5	0.001
	M5x0.8	3281 03 19	1.5	8	9.5	0.002

3299 Compact Stud Elbow, Male Metric Thread

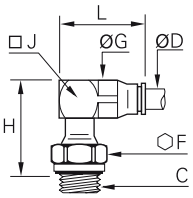
Nickel-plated brass, NBR



ØD	C		F	G	H	J	L	kg
3	M3x0.5	3299 03 09	6	6	13.5	6	13.5	0.004
	M5x0.8	3299 03 19	8	6	13	6	13.5	0.005

3229 Extended Stud Elbow, Male Metric Thread

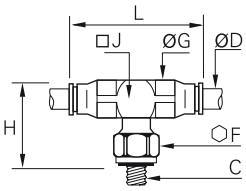
Nickel-plated brass, NBR



ØD	C		F	G	H	J	L	kg
3	M3x0.5	3229 03 09	6	6	16	6	13.5	0.004
	M5x0.8	3229 03 19	8	6	17	6	13.5	0.005

3298 Stud Branch Tee, Male Metric Thread

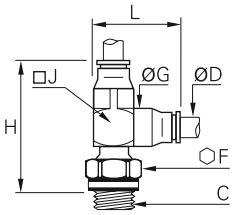
Nickel-plated brass, NBR



ØD	C		F	G	H	J	L	kg
3	M3x0.5	3298 03 09	6	6	13.5	6	20.5	0.004
	M5x0.8	3298 03 19	8	6	13	6	20.5	0.005

3293 Stud Run Tee, Male Metric Thread

Nickel-plated brass, NBR

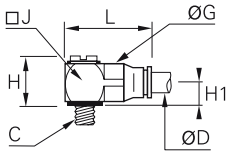


ØD	C		F	G	H	J	L	kg
3	M3x0.5	3293 03 09	6	6	20	6	13.5	0.004
	M5x0.8	3293 03 19	8	6	20	6	13.5	0.005

Stud Fittings

3218 Single Banjo, Male Metric Thread

Nickel-plated brass, NBR

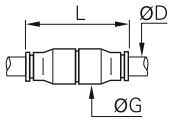


ØD	C		G	H	H1	J	L	kg
3	M3x0.5	3218 03 09	6	9.5	4	6	12.5	0.002
	M5x0.8	3218 03 19	6	10.5	4.5	8	15	0.005

Tube-to-Tube Fittings and Accessories

3206 Equal Tube-to-Tube Connector

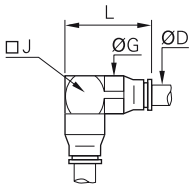
Nickel-plated brass, NBR



ØD		G	L	kg
3	3206 03 00	6	17	0.002

3202 Equal Elbow

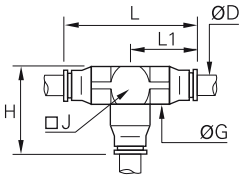
Nickel-plated brass, NBR



ØD		G	J	L	kg
3	3202 03 00	6	6	13.5	0.003

3204 Equal Tee

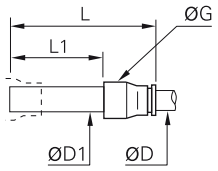
Nickel-plated brass, NBR



ØD		G	H	J	L	L1	kg
3	3204 03 00	6	13.5	6	20.5	10.25	0.004

3266 Plug-In Reducer

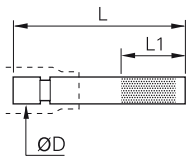
Nickel-plated brass, NBR, technical polymer



ØD	ØD1		G	L	L1	kg
3	4	3266 03 04	6	28	19	0.001

3226 Blanking Plug

Nickel-plated brass



ØD		L	L1	kg
3	3226 03 00	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 Page 1-48

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 Page 1-51

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

Elbow - Inch

6382 Page 1-57

Tees

6383 Page 1-57

6388 Page 1-57

Tee - Inch

6388 Page 1-58

Accessories

6366 Page 1-58

6326 Page 1-58

6322 Page 1-59

6351 Page 1-59

Accessories - Inch

6366 Page 1-58

6368 Page 1-58

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

6336
Page 1-63

Elbow - Inch

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 phtalates, conforming with regulations

Applications

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

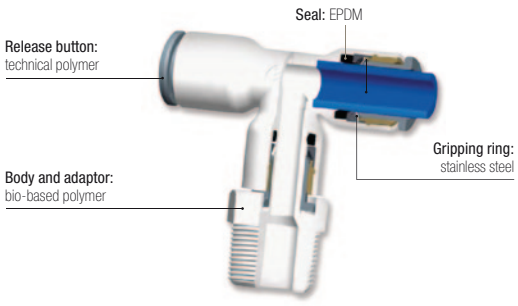
Technical Characteristics

Compatible Fluids	Water, beverages, CO_2 (inert use) Chemical fluids: please consult us
Working Pressure	Vacuum to 16 bar
Working Temperature	-10°C to +95°C

Tightening Torques (BSPT/NPTF)	Thread	1/8" and 1/4"	3/8" and 1/2"
	daN.m	0.15	0.30

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

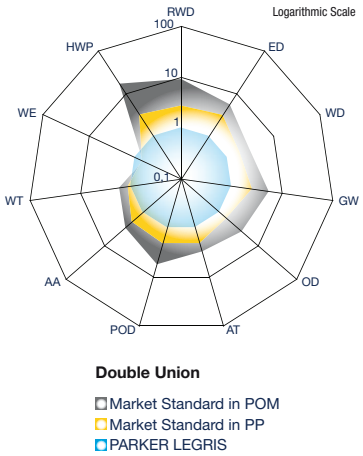
+40°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+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

Environmental Footprint

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



Double Union

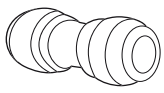
- Market Standard in POM
- Market Standard in PP
- PARKER LEGRIS

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 commmittee (Bureau Veritas).

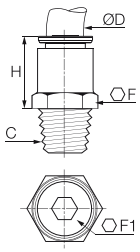
ECO DESIGN

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

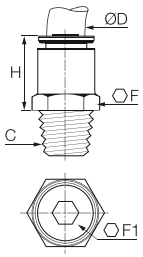


ØD	C		F	F1	H	kg
4	R1/8	6505 04 10WP2	11	3	18	0.003
	R1/4	6505 04 13WP2	14	3	18	0.004
6	R1/8	6505 06 10WP2	11	4	18	0.002
	R1/4	6505 06 13WP2	14	4	18	0.004
8	R1/8	6505 08 10WP2	17	6	20	0.004
	R1/4	6505 08 13WP2	14	6	20	0.004
	R3/8	6505 08 17WP2	17	6	20	0.005
10	R1/4	6505 10 13WP2	17	7	21.5	0.005
	R3/8	6505 10 17WP2	19	7	21.5	0.007
	R1/2	6505 10 21WP2	22	7	21.5	0.010
12	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

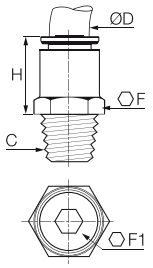


ØD	C		F	F1	H	kg
1/4	NPT1/8	6505 56 11WP2	1/2	5/32	17	0.002
	NPT1/4	6505 56 14WP2	9/16	5/32	17	0.003
	NPT3/8	6505 56 18WP2	3/4	1/4	21,5	0,004
3/8	NPT1/8	6505 60 11WP2	3/4	5/32	22,1	0,005
	NPT1/4	6505 60 14WP2	3/4	1/4	22	0.006
	NPT3/8	6505 60 18WP2	3/4	1/4	22	0.007
	NPT1/2	6505 60 22WP2	15/16	1/4	27	0,012
1/2	NPT3/8	6505 62 18WP2	15/16	3/8	28	0.012
	NPT1/2	6505 62 22WP2	15/16	3/8	28	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

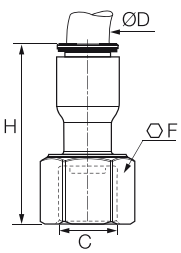


ØD	C		F	F1	H	kg
1/4	R1/8	6505 56 10WP2	11	5	17	0.002
	R1/4	6505 56 13WP2	14	5	17	0.003
3/8	R1/4	6505 60 13WP2	17	7	22	0.006
	R3/8	6505 60 17WP2	19	7	22	0.006
	R1/2	6505 60 21WP2	22	7	28	0.012
1/2	R3/8	6505 62 17WP2	24	9	28	0.014
	R1/2	6505 62 21WP2	24	9	28	0.017

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



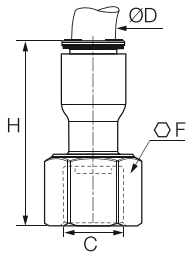
ØD	C		F	H	kg
6	R1/8	6315 06 10WP2	13	32	0.003
	R1/4	6315 06 13WP2	16	33	0.004
8	R1/4	6315 08 13WP2	16	33.5	0.004
	R3/8	6315 08 17WP2	20	36	0.009

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

Bio-based polymer, EPDM

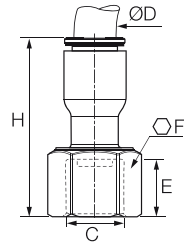


ØD	C		F	H	kg
1/4	NPT1/4	6315 56 14WP2	11/16	30	0.003
3/8	NPT3/8	6315 60 18WP2	13/16	36	0.007

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

Bio-based polymer, EPDM

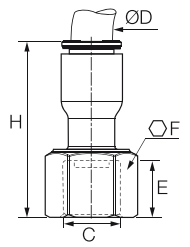


ØD	C		E	F	H	kg
6	G3/4	6353 06 27WP2	10	32	32	0.011
8	G3/4	6353 08 27WP2	10	32	40.5	0.017
10	G1/2	6353 10 21WP2	12	27	36	0.011

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

Bio-based polymer, EPDM

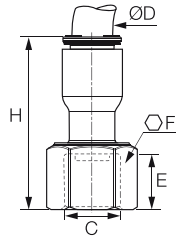


ØD	C		E	F	H	kg
1/4	G3/4	6353 56 27WP2	10	32	31	0.006
3/8	G1/2	6353 60 21WP2	12	27	36	0.011
	G3/4	6353 60 27WP2	10	32	41	0.018
1/2	G3/4	6353 62 27WP2	10	32	44.5	0.014

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

Bio-based polymer, EPDM

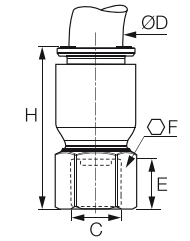


ØD	C		E	F	H	kg
5/16	G1/2	6352 08 21WP2	10.5	27	37	0.009
	G5/8	6352 08 23WP2	10.5	29	32	0.013
3/8	G3/8	6352 60 17WP2	12	22	36	0.008
	G1/2	6352 60 21WP2	12	27	36	0.011
1/2	G5/8	6352 62 23WP2	10.5	29	32	0.013

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

Bio-based polymer, EPDM



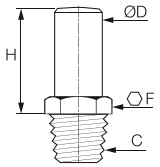
ØD	C		E	F	H	kg
1/4	UNS7/16-24	6325 56 133WP2	7	9/16	31	0.002
3/8	UNS7/16-24	6325 60 133WP2	7	9/16	32	0.004

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

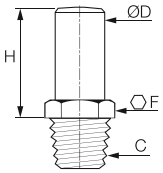


ØD	C		F	H	kg
6	R1/8	6521 06 10WP2	13	19	0.002
	R1/4	6521 06 13WP2	14	19	0.003
	R3/8	6521 06 17WP2	17	19	0.004
8	R1/8	6521 08 10WP2	19	23	0.003
	R1/4	6521 08 13WP2	19	23	0.004
	R3/8	6521 08 17WP2	19	23	0.004
10	R1/4	6521 10 13WP2	19	25	0.004
	R3/8	6521 10 17WP2	19	25	0.005
	R1/2	6521 10 21WP2	22	25	0.008
12	R3/8	6521 12 17WP2	22	28	0.005
	R1/2	6521 12 21WP2	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

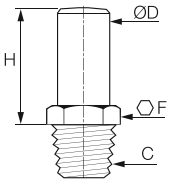


ØD	C		F	H	kg
1/4	NPT1/8	6521 56 11WP2	1/2	19	0.001
	NPT1/4	6521 56 14WP2	1/2	19	0.002
	NPT3/8	6521 56 18WP2	3/4	19.5	0.004
3/8	NPT1/4	6521 60 14WP2	3/4	25	0.004
	NPT3/8	6521 60 18WP2	3/4	25	0.004
1/2	NPT3/8	6521 62 18WP2	15/16	31	0.010
	NPT1/2	6521 62 22WP2	15/16	32.5	0.013

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

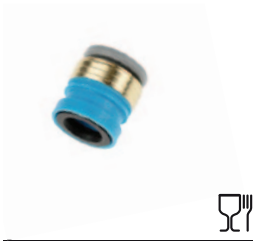
Bio-based polymer



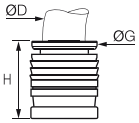
ØD	C		F	H	kg
1/4	R1/8	6521 56 10WP2	14	19	0.001
	R1/4	6521 56 13WP2	14	19	0.002
	R3/8	6521 56 17WP2	17	19	0.004
3/8	R1/4	6521 60 13WP2	19	25	0.004
	R3/8	6521 60 17WP2	19	25	0.004
1/2	R3/8	6521 62 17WP2	24	31.5	0.006
	R1/2	6521 62 21WP2	24	31.5	0.009

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

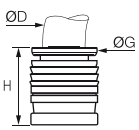


ØD		G	H	kg
4	6300 04 00	8	10	0.002
6	6300 06 00	10	11.5	0.002
8	6300 08 00	13	15	0.003
10	6300 10 00	15.5	17	0.005
12	6300 12 00	18.5	19.5	0.010

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

6300 LIQUIfit® Cartridge — Inch

Brass, EPDM



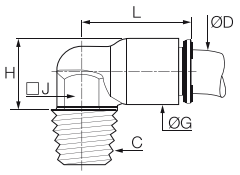
ØD		G	H	kg
1/4	6300 56 00	10.5	12.5	0.002
3/8	6300 60 00	15.5	17	0.005
1/2	6300 62 00	22	23	0.011

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

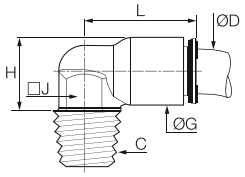


ØD	C		G	H	J	L	kg
6	R1/8	6579 06 10WP2	11	14	10	19	0.002
	R1/4	6579 06 13WP2	11	14	10	19	0.003
	R3/8	6579 06 17WP2	11	14	10	19	0.004

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

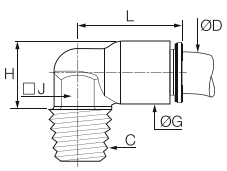


ØD	C		G	H	J	L	kg
1/4	NPT1/8	6579 56 11WP2	11	22	3/8	18	0.009
	NPT1/4	6579 56 14WP2	11	26	3/8	18	0.003
	NPT3/8	6579 56 18WP2	11	26.5	3/8	18	0.004
3/8	NPT1/4	6579 60 14WP2	16	32	1/2	26	0.006
	NPT3/8	6579 60 18WP2	16	32	1/2	26	0.006

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

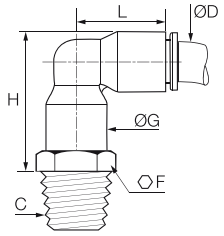


ØD	C		G	H	J	L	kg
1/4	R1/8	6579 56 10WP2	11	22	10	18	0.002
	R1/4	6579 56 13WP2	11	26	10	18	0.003
	R3/8	6579 56 17WP2	11	26	10	18	0.004
3/8	R1/4	6579 60 13WP2	16	31.5	13	26	0.006
	R3/8	6579 60 17WP2	16	32	13	26	0.006

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



ØD	C		F	G	H	L	kg
6	R1/8	6509 06 10WP2	13	10.5	28	24	0.037
	R1/4	6509 06 13WP2	14	10.5	28	24	0.007
	R3/8	6509 06 17WP2	17	10.5	28	24	0.008
8	R1/8	6509 08 10WP2	19	13.5	34	29.5	0.010
	R1/4	6509 08 13WP2	19	13.5	34	29.5	0.011
	R3/8	6509 08 17WP2	19	13.5	34	29.5	0.011
10	R1/4	6509 10 13WP2	19	16	38	34.5	0.019
	R3/8	6509 10 17WP2	19	16	38	34.5	0.020
	R1/2	6509 10 21WP2	22	16	38	34.5	0.023
12	R3/8	6509 12 17WP2	22	19	44	40	0.022
	R1/2	6509 12 21WP2	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

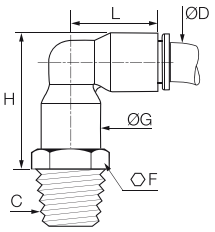
LIQUIfit® Ball Valves
P. 6-34

Stud Fittings

6509 Elbow, Male NPTF Thread

Inch

Bio-based polymer, EPDM



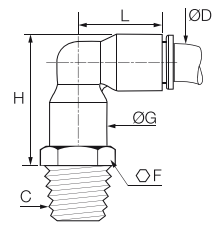
ØD	C		F	G	H	L	kg
1/4	NPT1/8	6509 56 11WP2	1/2	11	28	23.5	0.003
	NPT1/4	6509 56 14WP2	9/16	11	28	23.5	0.004
	NPT3/8	6509 56 18WP2	3/4	11	28.5	23.5	0.006
3/8	NPT1/4	6509 60 14WP2	3/4	16	38	34	0.010
	NPT3/8	6509 60 18WP2	3/4	16	38	34	0.011
1/2	NPT3/8	6509 62 18WP2	15/16	22	50.5	46.5	0.024
	NPT1/2	6509 62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

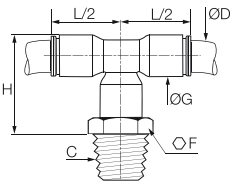


ØD	C		F	G	H	L	kg
1/4	R1/8	6509 56 10WP2	14	11	28	23.5	0.003
	R1/4	6509 56 13WP2	14	11	28	23.5	0.004
	R3/8	6509 56 17WP2	17	11	28	23.5	0.006
3/8	R1/4	6509 60 13WP2	19	16	38	34	0.010
	R3/8	6509 60 17WP2	19	16	38	34	0.011
1/2	R3/8	6509 62 17WP2	24	22	50.5	46.5	0.024
	R1/2	6509 62 21WP2	24	22	50.5	46.5	0.027

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



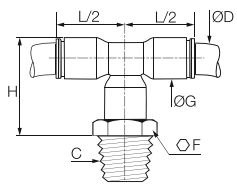
ØD	C		F	G	H	L/2	kg
6	R1/8	6508 06 10WP2	13	10.5	28	18	0.008
	R1/4	6508 06 13WP2	14	10.5	28	18	0.009
	R3/8	6508 06 17WP2	17	10.5	28	18	0.010
8	R1/8	6508 08 10WP2	19	13.5	34	23	0.012
	R1/4	6508 08 13WP2	19	13.5	34	23	0.013
	R3/8	6508 08 17WP2	19	13.5	34	23	0.013
10	R1/4	6508 10 13WP2	19	16	38	26.5	0.018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

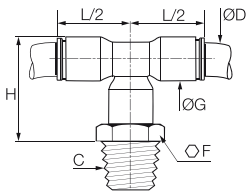
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
Thread without pre-coating; the body swivels for positioning purposes.

Stud Fittings

6508 Branch Tee, Male BSPT Thread

Inch

Bio-based polymer, EPDM

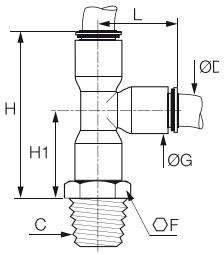


ØD	C		F	G	H	L/2	kg
1/4	R1/8	6508 56 10WP2	13	11	28	18	0.004
	R1/4	6508 56 13WP2	14	11	28	18	0.005
	R3/8	6508 56 17WP2	17	11	28	18	0.007
3/8	R1/4	6508 60 13WP2	19	16	38	26	0.013
	R3/8	6508 60 17WP2	19	16	38	26	0.013
1/2	R3/8	6508 62 17WP2	24	22	50	35.5	0.032
	R1/2	6508 62 21WP2	24	22	50	35.5	0.032

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

Bio-based polymer, EPDM



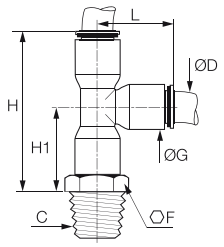
ØD	C		F	G	H	H1	L	kg
6	R1/8	6503 06 10WP2	13	10.5	40	22	18.5	0.008
	R1/4	6503 06 13WP2	14	10.5	40	22	18.5	0.009
	R3/8	6503 06 17WP2	17	10.5	40	22	18.5	0.010
8	R1/8	6503 08 10WP2	19	13.5	50	27	23	0.012
	R1/4	6503 08 13WP2	19	13.5	50	27	23	0.013
	R3/8	6503 08 17WP2	19	13.5	50	27	23	0.013
10	R1/4	6503 10 13WP2	19	16	56.5	30	26.5	0.018
	R3/8	6503 10 17WP2	19	16	56.5	30	26.5	0.019
	R1/2	6503 10 21WP2	22	16	56.5	30	26.5	0.022
12	R3/8	6503 12 17WP2	22	19	65.5	34.5	31	0.024
	R1/2	6503 12 21WP2	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

Bio-based polymer, EPDM



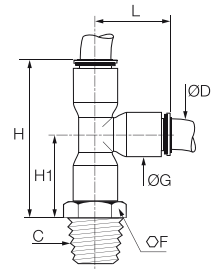
ØD	C		F	G	H	H1	L	kg
1/4	NPT1/8	6303 56 11WP2	1/2	11	40.5	22.5	18	0.004
	NPT1/4	6503 56 14WP2	9/16	11	40.5	22.5	18	0.005
	NPT3/8	6503 56 18WP2	3/4	11	41.5	23	18	0.007
3/8	NPT1/4	6503 60 14WP2	3/4	16	56	30	26	0.013
	NPT3/8	6503 60 18WP2	3/4	16	56	30	26	0.013
1/2	NPT3/8	6503 62 18WP2	15/16	22	75	39.5	35.5	0.031
	NPT1/2	6503 62 22WP2	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

Bio-based polymer, EPDM

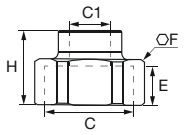


ØD	C		F	G	H	H1	L	kg
1/4	R1/8	6503 56 10WP2	13	11	41.5	22.5	18	0.004
	R1/4	6503 56 13WP2	14	11	41.5	22.5	18	0.005
	R3/8	6503 56 17WP2	17	11	41.5	23	18	0.007
3/8	R1/4	6503 60 13WP2	19	16	56	30	26	0.013
	R3/8	6503 60 17WP2	19	16	56	30	26	0.013
1/2	R3/8	6503 62 17WP2	24	22	75	39.5	35.5	0.032
	R1/2	6503 62 21WP2	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

Bio-based polymer



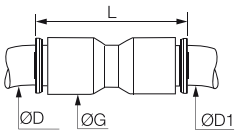
C	C1		E	F	H	kg
G3/4	G1/4	6355 13 27WP2	10	32	23.5	0.050

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

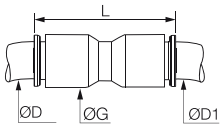


ØD	ØD1		G	L	kg
4	4	6306 04 00WP2	8.5	26.5	0.002
	6	6306 04 06WP2	10.5	29	0.002
	8	6306 04 08WP2	13.5	37	0.005
6	6	6306 06 00WP2	10.5	30	0.004
	8	6306 06 08WP2	13.5	37	0.005
	10	6306 06 10WP2	16	42	0.007
8	8	6306 08 00WP2	13.5	37	0.004
	10	6306 08 10WP2	16	42	0.007
	12	6306 08 12WP2	19	50	0.012
10	10	6306 10 00WP2	16	42	0.009
	12	6306 10 12WP2	19	50	0.013
12	12	6306 12 00WP2	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

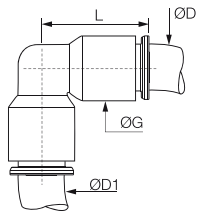


ØD	ØD1		G	L	kg
5/16	3/8	6306 08 60WP2	16	42	0.008
	1/2	6306 08 62WP2	22	55	0.018
1/4	1/4	6306 56 00WP2	11	30	0.002
	5/16	6306 56 08WP2	13.5	37	0.007
	3/8	6306 56 60WP2	16	41	0.007
3/8	3/8	6306 60 00WP2	16	42	0.006
	1/2	6306 60 62WP2	22	56	0.020
1/2	1/2	6306 62 00WP2	22	57	0.016

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

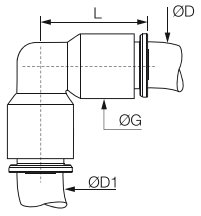


ØD	ØD1		G	L	kg
4	4	6302 04 00WP2	8.5	19	0.002
	6	6302 04 06WP2	10.5	24	0.004
6	6	6302 06 00WP2	10.5	24	0.004
	8	6302 06 08WP2	13.5	29.5	0.006
8	8	6302 08 00WP2	13.5	29	0.004
	10	6302 08 10WP2	16	34.5	0.008
10	10	6302 10 00WP2	16	34.5	0.005
	12	6302 10 12WP2	19	40.5	0.013
12	12	6302 12 00WP2	19	40.5	0.010

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



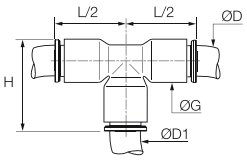
ØD	ØD1		G	L	kg
5/16	3/8	6302 08 60WP2	16	34	0.009
1/4	1/4	6302 56 00WP2	11	24	0.005
	5/16	6302 56 08WP2	13.5	29.5	0.006
	3/8	6302 56 60WP2	16	34	0.008
3/8	3/8	6302 60 00WP2	16	34	0.006
	1/2	6302 60 62WP2	22	46.5	0.011
1/2	1/2	6302 62 00WP2	22	46.5	0.017

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

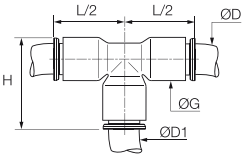


ØD	ØD1		G	H	L/2	kg
4	4	6304 04 00WP2	8.5	20	15.5	0.004
6	6	6304 06 00WP2	10.5	23	18	0.006
8	8	6304 08 00WP2	13.5	29	22.5	0.006
10	10	6304 10 00WP2	16	34.5	26.5	0.009
12	12	6304 12 00WP2	19	40	31	0.014

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

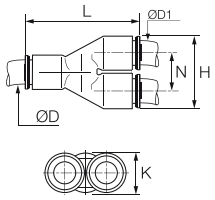


ØD	ØD1		G	H	L/2	kg
1/4	1/4	6304 56 00WP2	11	24	18	0.002
3/8	3/8	6304 60 00WP2	16	34	26	0.009
	1/4	6304 60 56WP2	16	34	26	0.011
1/2	1/2	6304 62 00WP2	22	47	36	0.027
	3/8	6304 62 60WP2	22	47	36	0.009

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

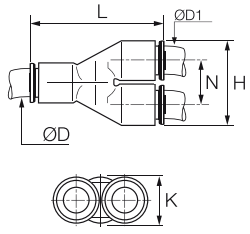


ØD	ØD1		H	K	L	N	kg
4	4	6340 04 00WP2	17.5	8.5	30	9	0.004
6	6	6340 06 00WP2	21.5	10.5	36.5	11	0.008
8	8	6340 08 00WP2	28	13.5	44.5	14.5	0.007
10	10	6340 10 00WP2	33	16	53	17	0.010
12	12	6340 12 00WP2	39	19	60.5	20	0.025

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



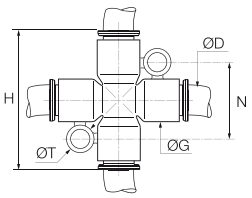
ØD	ØD1		H	K	L	N	kg
1/4	1/4	6340 56 00WP2	22	11	36	11.5	0.010
3/8	3/8	6340 60 00WP2	33	16	53	17	0.011
1/2	1/2	6340 62 00WP2	45	22	67	23	0.028

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

Bio-based polymer, EPDM

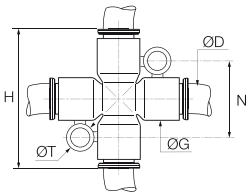


ØD		G	H	N	ØT	kg
6	6307 06 00WP2	11	36	20	4.2	0.005
8	6307 08 00WP2	13.5	45	22.5	4.2	0.020

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

6307 Equal Cross Inch

Bio-based polymer, EPDM

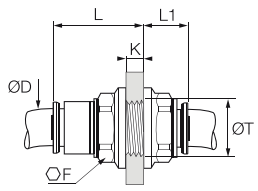


ØD		G	H	N	ØT	kg
1/4	6307 56 00WP2	11	36	20	4.2	0.010

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

6316 Equal Bulkhead Union

Bio-based polymer, EPDM

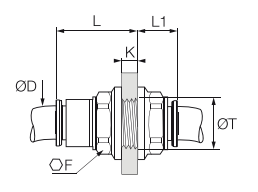


ØD		F	K max	L	L1	ØT min	kg
4	6316 04 00WP2	13	5.5	15.5	10.5	10.5	0.018
6	6316 06 00WP2	15	8.5	20	10	12.5	0.004
8	6316 08 00WP2	18	14.5	27	10.5	15.5	0.007
10	6316 10 00WP2	22	14.5	30	13	18.5	0.012
12	6316 12 00WP2	26	18.5	35	15.5	22.5	0.020

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

6316 Equal Bulkhead Union Inch

Bio-based polymer, EPDM



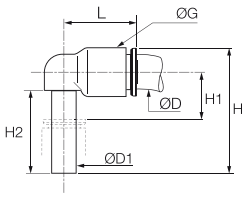
ØD		F	K max	L	L1	ØT min	kg
1/4	6316 56 00WP2	15	8.5	20	10	12.5	0.004
3/8	6316 60 00WP2	22	14.5	29.5	12.5	18.5	0.012
1/2	6316 62 00WP2	29	20.5	40.5	17	25.5	0.030

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

Bio-based polymer, EPDM

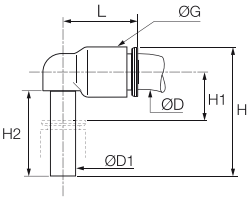


ØD	ØD1		G	H	H1	H2	L	kg
4	4	6382 04 00WP2	8.5	23	6	15.5	15	0.003
	6	6382 04 06WP2	10.5	26.5	7	17	16.5	0.002
6	6	6382 06 00WP2	10.5	26.5	7	17	17	0.003
	4	6382 06 04WP2	10.5	25	7	15.5	17	0.001
	8	6382 06 08WP2	13.5	33.5	8	21.5	22.5	0.004
8	8	6382 08 00WP2	13.5	33.5	8	21.5	22.5	0.004
	10	6382 08 10WP2	16	39	9.5	24.5	26	0.007
10	10	6382 10 00WP2	16	39	9.5	24.5	26.5	0.004
	12	6382 10 12WP2	19	44.5	10	27	30	0.011
12	12	6382 12 00WP2	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

Bio-based polymer, EPDM

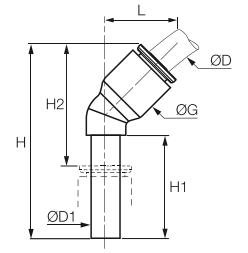


ØD	ØD1		G	H	H1	H2	L	kg
5/16	3/8	6382 08 60WP2	16	39	10	24.5	26	0.009
1/4	1/4	6382 56 00WP2	11	30.5	11	18	18	0.002
	3/8	6382 56 60WP2	16	39	9	24.5	25.5	0.006
3/8	3/8	6382 60 00WP2	16	39	9	24.5	26.5	0.005
1/2	1/2	6382 62 00WP2	22	49	13	28.5	36	0.011

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

Bio-based polymer, EPDM

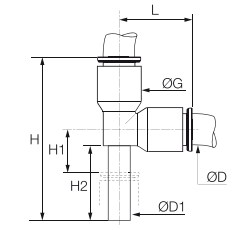


ØD	ØD1		G	H	H1	H2	L	kg
4	4	6380 04 00WP2	8.5	33.5	19	21	13	0.001
6	6	6380 06 00WP2	11	39	21	25	14.5	0.002
8	8	6380 08 00WP2	13.5	44	21.5	25.5	19.5	0.006
10	10	6380 10 00WP2	16	53	27	32.5	23	0.004
12	12	6380 12 00WP2	19	58	27	34	26	0.012

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

Bio-based polymer, EPDM

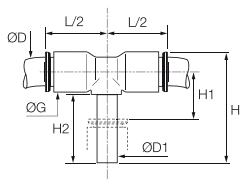


ØD	ØD1		G	H	H1	H2	L	kg
4	4	6383 04 00WP2	8.5	33	6	15.5	15	0.002
6	6	6383 06 00WP2	10.5	38.5	7	17	18	0.002
8	8	6383 08 00WP2	13.5	49	8	21.5	23	0.005
10	10	6383 10 00WP2	16	57	10.5	25.5	26.5	0.012
12	12	6383 12 00WP2	19	65	36.5	27	31	0.016

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

Bio-based polymer, EPDM



ØD	ØD1		G	H	H1	H2	L/2	kg
4	4	6388 04 00WP2	8.5	25	6	15.5	15	0.005
6	6	6388 06 00WP2	10.5	28.5	7	17	16	0.006
8	8	6388 08 00WP2	13.5	33.5	8	21.5	23	0.005
10	10	6388 10 00WP2	16	41	9.5	24.5	26.5	0.007
12	12	6388 12 00WP2	19	46.5	10	27	31	0.016

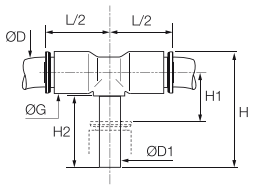
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

Plug-In Fittings and Accessories

6388 Plug-In Equal Branch Tee

Inch

Bio-based polymer, EPDM

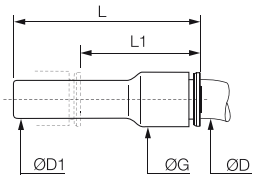


ØD	ØD1		G	H	H1	H2	L/2	kg
1/4	1/4	6388 56 00WP2	11	30.5	11	20	18	0.002
3/8	3/8	6388 60 00WP2	16	42	12	25	25	0.008
1/2	1/2	6388 62 00WP2	22	51	13	29	32	0.020

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



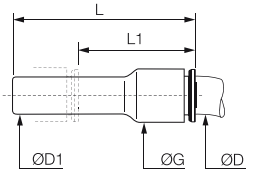
ØD	ØD1		G	L	L1	kg
4	6	6366 04 06WP2	8.5	38	23.5	0.004
	8	6366 04 08WP2	8.5	38	19	0.004
6	8	6366 06 08WP2	10.5	38	20	0.004
	10	6366 06 10WP2	10.5	39	17.5	0.002
8	10	6366 08 10WP2	13.5	48.5	28.5	0.009
	12	6366 08 12WP2	13.5	48.5	24.5	0.004
10	12	6366 10 12WP2	16	52	33.5	0.005
	14	6366 10 14WP2	16	53	33.5	0.005
12	14	6366 12 14WP2	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



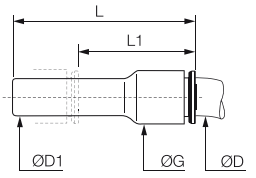
ØD	ØD1		G	L	L1	kg
1/4	5/16	6366 56 08WP2	11	41	22.5	0.015
	3/8	6366 56 60WP2	11	41	20.5	0.002
5/16	3/8	6366 08 60WP2	13.5	48.5	29	0.003
	1/2	6366 08 62WP2	16	48.5	22	0.007
3/8	1/2	6366 60 62WP2	16	51	30	0.011

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

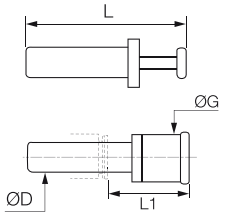


ØD	ØD1		G	L	L1	kg
3/8	5/16	6368 60 08WP2	16	44	25.5	0.004

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



ØD		G	L	L1	kg
4	6326 04 00WP2	6	30	15.5	0.001
6	6326 06 00WP2	8	33	16.5	0.001
8	6326 08 00WP2	10	35	17.5	0.002
10	6326 10 00WP2	12	42	21	0.003
12	6326 12 00WP2	14	45	22	0.004

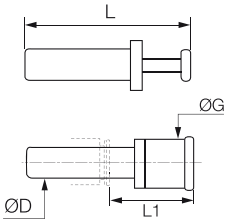
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

Plug-In Fittings and Accessories

6326 Blanking Plug

Inch

Bio-based polymer

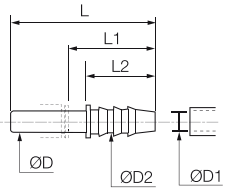


ØD		G	L	L1	kg
1/4	6326 56 00WP2	8	36.5	22	0.001
3/8	6326 60 00WP2	11.6	42.5	22	0.002
1/2	6326 62 00WP2	14.7	48.5	21.5	0.004

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

Bio-based polymer



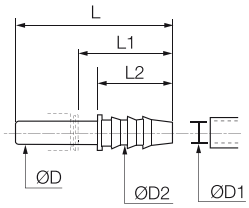
ØD	ØD1	ØD2		L	L1	L2	kg
6	4	7	6322 06 04WP2	39	25	17	0.004
8	6	8.5	6322 08 06WP2	43	25	17	0.005
10	7	8	6322 10 07WP2	50	29.5	22	0.006
12	12.5	15.5	6322 12 62WP2	56	32	27.5	0.004

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

Bio-based polymer

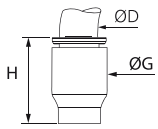


ØD	ØD1	ØD2		L	L1	L2	kg
1/4	0.28	0.32	6322 56 56WP2	39	24.5	17	0.001
3/8	0.33	0.38	6322 60 08WP2	50	29.5	22	0.001
	0.28	0.32	6322 60 56WP2	45	24.5	17	0.008
	0.40	0.45	6322 60 60WP2	50	29	22	0.002
1/2	0.40	0.45	6322 62 60WP2	58	37.5	30	0.005

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

Bio-based polymer, EPDM



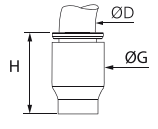
ØD		G	H	kg
4	6351 04 00WP2	8.5	15	0.001
6	6351 06 00WP2	10.5	17	0.002
8	6351 08 00WP2	13.5	21.5	0.003
10	6351 10 00WP2	16	22	0.003
12	6351 12 00WP2	19	27.5	0.006

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

Bio-based polymer, EPDM



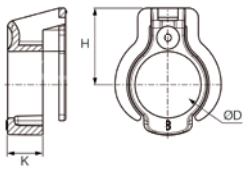
ØD		G	H	kg
1/4	6351 56 00WP2	11	16	0.001
3/8	6351 60 00WP2	16	22.5	0.003

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

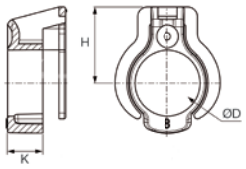
Technical Polymer



ØD							H	K	kg
4	3130 04 01	3130 04 02	3130 04 03	3130 04 04	3130 04 05	3130 04 10	6.60	3.00	0.001
6	3130 06 01	3130 06 02	3130 06 03	3130 06 04	3130 06 05	3130 06 10	7.80	3.10	0.001
8	3130 08 01	3130 08 02	3130 08 03	3130 08 04	3130 08 05	3130 08 10	9.50	4.30	0.001
10	3130 10 01	3130 10 02	3130 10 03	3130 10 04	3130 10 05	3130 10 10	10.80	4.20	0.002
12	3130 12 01	3130 12 02	3130 12 03	3130 12 04	3130 12 05	3130 12 10	12.50	5.10	0.003
14	3130 14 01	3130 14 02	3130 14 03	3130 14 04	3130 14 05	3130 14 10	12.50	5.10	0.004

3130 Tamper-Proof Safety Clip — Inch

Technical Polymer



ØD							H	K	kg
1/4	3130 56 01	3130 56 02	3130 56 03	3130 56 04	3130 56 05	3130 56 10	7.80	3.10	0.001
3/8	3130 60 01	3130 60 02	3130 60 03	3130 60 04	3130 60 05	3130 60 10	10.80	4.20	0.002
1/2	3130 62 01	3130 62 02	3130 62 03	3130 62 04	3130 62 05	3130 62 10	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	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

3110 Coloured Release Button Covers — Inch

Technical Polymer

ØD						kg
1/4	3110 56 00	3110 56 02	3110 56 03	3110 56 04	3110 56 05	0.001
3/8	3110 60 00	3110 60 02	3110 60 03	3110 60 04	3110 60 05	0.001
1/2	3110 62 00	3110 62 02	3110 62 03	3110 62 04	3110 62 05	0.001

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

0605 Fluoropolymer Tape

FKM

	kg
0605 12 12	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.

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

Applictaions

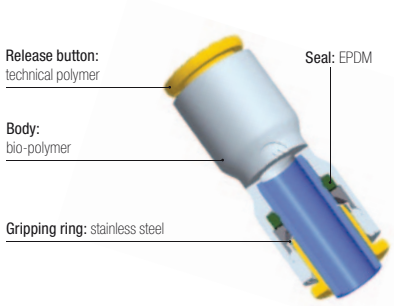
Food Process
Medical
Beverage Dispensers
Pharmaceutical
Chemical
Brewing

Technical Characteristics

Compatible Fluids	Beer, water, beverages, industrial fluids
Working Pressure	Vacuum to 16 bar
Working Temperature	-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).

Component Materials

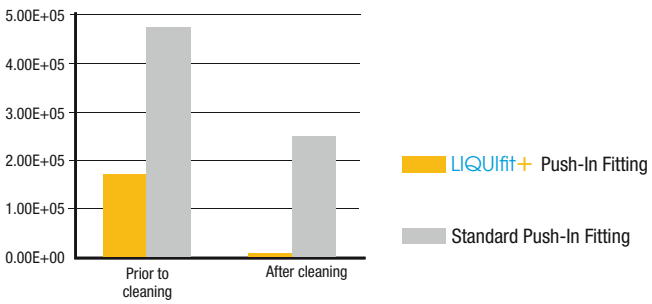


ECO DESIGN

Silicone-free

Cleaning Efficiency

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



*Tests carried out by an independent laboratory

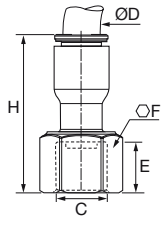
Regulations

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

LIQUIfit+ Push-In Fittings

6333 Stud Fitting, Female BSPP Thread

Inch

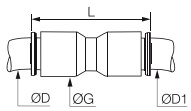


ØD	C		E	F	H	kg
3/8	G1/2	6333 60 21WP3	14	11	30	0.010
3/8	G5/8	6333 60 23WP3	14	13	36	0.016

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

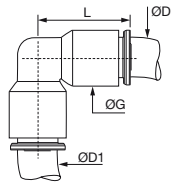


ØD	ØD1		ØG	L	kg
5/16	5/16	6336 08 00WP3	13.5	37	0.004
	3/8	6336 08 60WP3	16	42	0.008
	1/2	6336 08 62WP3	22	55	0.016
3/8	3/8	6336 60 00WP3	16	42	0.006
	1/2	6336 60 62WP3	22	56	0.020
1/2	1/2	6336 62 00WP3	22	57	0.016

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

6332 Equal and Unequal Elbow

Inch

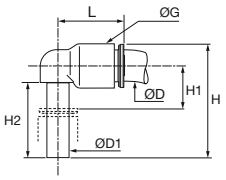


ØD	ØD1		ØG	L	kg
5/16	5/16	6332 08 00WP3	13.5	29	0.004
	3/8	6332 08 60WP3	16	34	0.009
3/8	3/8	6332 60 00WP3	16	34	0.006
	1/2	6332 60 62WP3	22	46.5	0.011
1/2	1/2	6332 62 00WP3	22	46.5	0.017

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

6331 Equal Plug-In Elbow

Inch



ØD	ØD1		ØG	H	H1	H2	L	kg
5/16	5/16	6331 08 00WP3	13.5	33.5	8	21.5	22.5	0.004
3/8	3/8	6331 60 00WP3	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 appoved 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 Page 1-67

3601 BSPP/Metric Page 1-67

3681 Metric Page 1-67

3614 BSPP/Metric Page 1-68

3621 BSPT Page 1-68

3631 BSPP/Metric Page 1-68

3600 Page 1-68

Elbows

3609 BSPT Page 1-69

3629 BSPT Page 1-69

3699 BSPP/Metric Page 1-69

3669 BSPP/Metric Page 1-70

Tees

3608 BSPT Page 1-70

3603 BSPT Page 1-70

3698 BSPP/Metric Page 1-70

3693 BSPP/Metric Page 1-71

Banjo

3618 BSPP/Metric Page 1-71

Tube-to-Tube Fittings

Straight

3606 Page 1-72

Elbow

3602 Page 1-72

Tee

3604 Page 1-72

Bulkhead Connector Fittings

Straights

3616 Page 1-73

3636 BSPP Page 1-73

Elbow

3639 Page 1-73

Plug-In Accessories

3666 Page 1-74

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3622 Page 1-74

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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

High Performance

- 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

Versatility

- 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

Reliability

- High performance brass for increased lifespan
- 100% leak-tested in production
- Date coding to guarantee quality and traceability

Applications

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

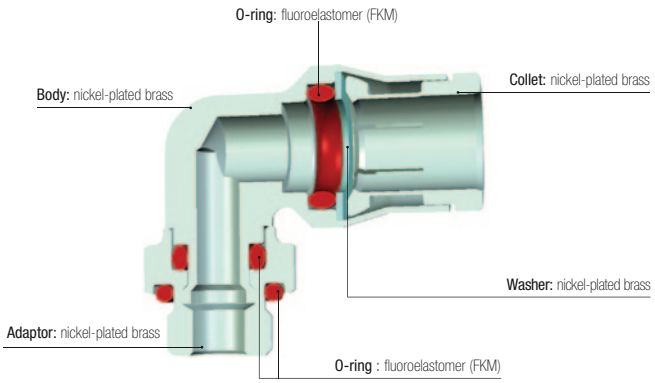
Technical Characteristics

Suitable Fluids	Compressed air, grease, lubricant, water…
Working Pressure	Vacuum to 30 bar (20 bar: 3699, 3609)
Working Temperature	-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

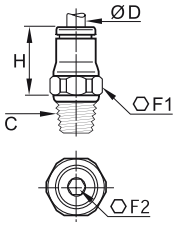
Industrial
ISO 14743: pneumatic transmissions, push-in fittings for thermoplastic tubing
DI: 97/23/EC (PED)
DI : 2002/95/EC (RoHS), 2011/65/EC
RG: 1907/2006 (REACH)
DI: 94/9/EC (ATEX)
UL94 V-0: please consult us

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

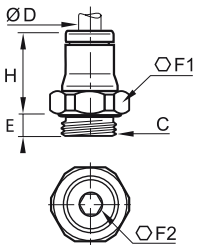
FDA chemical nickel-plated brass, FKM



ØD	C		F1	F2	H	kg
4	R1/8	3675 04 10	10	3	15	0.009
	R1/4	3675 04 13	14	3	15	0.017
6	R1/8	3675 06 10	13	4	17	0.011
	R1/4	3675 06 13	14	4	17	0.018
8	R1/8	3675 08 10	15	5	19	0.015
	R1/4	3675 08 13	16	6	18	0.019
	R3/8	3675 08 17	17	6	18.5	0.027
10	R1/4	3675 10 13	18	7	23	0.026
	R3/8	3675 10 17	18	8	22.5	0.031
	R1/2	3675 10 21	22	8	22.5	0.056
12	R1/4	3675 12 13	20	7	25.5	0.033
	R3/8	3675 12 17	20	9	24	0.035
	R1/2	3675 12 21	22	10	23	0.051
14	R3/8	3675 14 17	22	9	27	0.042
	R1/2	3675 14 21	24	11	26	0.057

3601 Stud Fitting, Male BSPP and Metric Thread

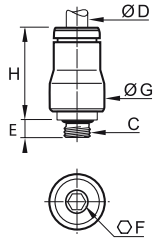
FDA chemical nickel-plated brass, FKM



ØD	C		E	F1	F2	H	kg
4	M5x0.8	3601 04 19	3.5	10	2.5	15.5	0.006
	M6x1	3601 04 52	4.5	10	3	16	0.006
	M8x1	3601 04 56	5	11	3	14.5	0.007
	G1/8	3601 04 10	5.5	13	3	14.5	0.009
	G1/4	3601 04 13	6.5	16	3	14.5	0.015
6	M5x0.8	3601 06 19	3.5	13	2.5	19	0.010
	M10x1	3601 06 60	5.5	13	4	17.5	0.011
	G1/8	3601 06 10	5.5	13	4	17.5	0.011
	G1/4	3601 06 13	6.5	16	4	17	0.015
8	G1/8	3601 08 10	5.5	16	5	20	0.014
	G1/4	3601 08 13	6.5	16	6	18	0.016
	G3/8	3601 08 17	7.5	20	6	19	0.028
10	G1/4	3601 10 13	6.5	18	7	25	0.025
	G3/8	3601 10 17	7.5	20	8	22.5	0.028
	G1/2	3601 10 21	9	24	8	22.5	0.043
12	G1/4	3601 12 13	6.5	20	7	26.5	0.030
	G3/8	3601 12 17	7.5	20	9	26	0.034
	G1/2	3601 12 21	9	24	10	23.5	0.042
14	G3/8	3601 14 17	7.5	22	9	28	0.038
	G1/2	3601 14 21	9	24	11	26.5	0.045

3681 Stud Fitting with Internal Hexagon, Male Metric Thread

FDA chemical nickel-plated brass, FKM



ØD	C		E	F	G	H	kg
4	M5x0.8	3681 04 19	3.5	2.5	10	16	0.005

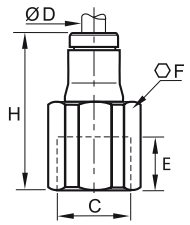
Related Products

- 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

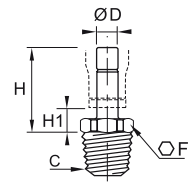
FDA chemical nickel-plated brass, FKM



ØD	C		E	F	H	kg
4	M5x0.8	3614 04 19	5	10	22	0.009
	G1/8	3614 04 10	7.5	14	25	0.016
	G1/4	3614 04 13	11	17	29	0.026
6	G1/8	3614 06 10	7.5	14	27.5	0.019
	G1/4	3614 06 13	11	17	31.5	0.028
8	G1/8	3614 08 10	9.5	15	28.5	0.022
	G1/4	3614 08 13	13.5	17	32.5	0.028
10	G3/8	3614 10 17	14	22	38	0.052
12	G3/8	3614 12 17	14	22	39	0.055
	G1/2	3614 12 21	18.5	24	43.5	0.062

3621 Stud Standpipe, Male BSPT Thread

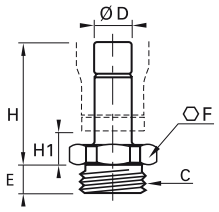
FDA chemical nickel-plated brass



ØD	C		F	H	H1	kg
4	R1/8	3621 04 10	10	21	7	0.006
	R1/4	3621 04 13	14	21	7	0.014
6	R1/8	3621 06 10	10	23.5	6.5	0.008
	R1/4	3621 06 13	14	23.5	6.5	0.016
8	R1/8	3621 08 10	10	24	6.5	0.009
	R1/4	3621 08 13	14	24	6.5	0.017
10	R1/4	3621 10 13	14	22	6.5	0.018
	R3/8	3621 10 17	17	30	7.5	0.022
12	R3/8	3621 12 17	17	31	7.5	0.023
	R1/2	3621 12 21	22	31	7.5	0.041
14	R1/2	3621 14 21	22	33	8	0.042

3631 Stud Standpipe, Male BSPP and Metric Thread

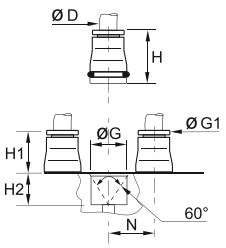
FDA chemical nickel-plated brass, FKM



ØD	C		E	F	H	H1	kg
4	M5x0.8	3631 04 19	3.5	13	21.5	7	0.003
	G1/8	3631 04 10	5.5	13	20	7	0.007
	G1/4	3631 04 13	6.5	8	20	7.5	0.011
6	G1/8	3631 06 10	5.5	13	22.5	6.5	0.009
	G1/4	3631 06 13	6.5	16	22.5	6.5	0.012
8	G1/8	3631 08 10	5.5	13	22.5	6.5	0.010
	G1/4	3631 08 13	6.5	16	23	6.5	0.013
	G3/8	3631 08 17	7.5	20	23	7.5	0.018
10	G1/4	3631 10 13	6.5	16	28	6.5	0.015
	G3/8	3631 10 17	7.5	20	28	7.5	0.022
	G1/2	3631 10 21	9	24	28	7.5	0.028
12	G3/8	3631 12 17	7.5	20	29	7.5	0.023
	G1/2	3631 12 21	9	24	29	7.5	0.033
14	G1/2	3631 14 21	9	24	31	8	0.033

3600 Cartridge

FDA chemical nickel-plated brass, FKM



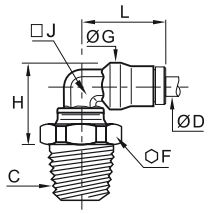
ØD		G	G1	H	H1	H2	N	kg
4	3600 04 00	9.8	8	17	8.5	8.5	11	0.006
6	3600 06 00	12.1	10	19	10.5	8.5	13.5	0.009
8	3600 08 00	14.8	13	21	12.5	8.5	16	0.012
10	3600 10 00	17.5	15	24.5	14	10.5	20	0.019
12	3600 12 00	20	17	25	14.5	10.5	22.5	0.023
14	3600 14 00	22	20	28.5	16.5	12	25	0.031

Cavity dimensions available in Chapter 2

Stud Fittings

3609 Stud Elbow, Male BSPT Thread

FDA chemical nickel-plated brass, FKM

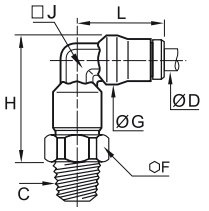


ØD	C		F	G	H	J	L	kg
4	R1/8	3609 04 10	13	10	15	7	18	0.014
	R1/4	3609 04 13	14	10	17	7	18	0.020
6	R1/8	3609 06 10	13	12	17.5	8	21.5	0.018
	R1/4	3609 06 13	14	12	19	8	21.5	0.025
8	R1/8	3609 08 10	13	15	19.5	10	23.5	0.023
	R1/4	3609 08 13	14	15	21	10	23.5	0.029
	R3/8	3609 08 17	17	15	21	10	23.5	0.035
10	R1/4	3609 10 13	15	17.5	23.5	12	29	0.037
	R3/8	3609 10 17	17	17.5	25.5	12	29	0.043
12	R1/4	3609 12 13	15	19.5	26	15	31	0.049
	R3/8	3609 12 17	17	19.5	28.5	15	31	0.055
	R1/2	3609 12 21	21	19.5	28.5	15	31	0.072
14	R3/8	3609 14 17	19	21.5	29	16	34	0.063
	R1/2	3609 14 21	22	21.5	30	16	34	0.072

The body swivels for positioning purposes.

3629 Extended Stud Elbow, Male BSPT Thread

FDA chemical nickel-plated brass, FKM

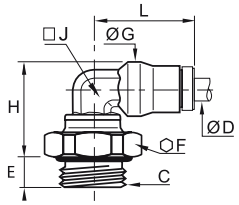


ØD	C		F	G	H	J	L	kg
4	R1/8	3629 04 10	10	10	24.5	7	18	0.025
6	R1/8	3629 06 10	13	12	29.5	8	21.5	0.024
	R1/4	3629 06 13	14	12	30.5	8	21.5	0.031
8	R1/8	3629 08 10	14	15	32.5	10	23.5	0.031
	R1/4	3629 08 13	14	15	34	10	23.5	0.037
10	R1/4	3629 10 13	18	17.5	39	12	29	0.054

The body swivels for positioning purposes.

3699 Compact Elbow, Male BSPP and Metric Thread

FDA chemical nickel-plated brass, FKM



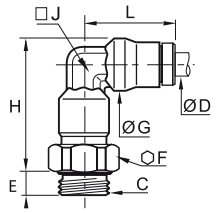
ØD	C		E	F	G	H	J	L	kg
4	M5x0.8	3699 04 19	3.5	10	10	18	7	18	0.011
	M6x1	3699 04 52	4.5	10	10	18	7	18	0.011
	M8x1	3699 04 56	5	11	10	18	7	18	0.013
	G1/8	3699 04 10	5.5	13	10	17	7	18	0.014
	G1/4	3699 04 13	6.5	16	10	17.5	7	18	0.019
6	M10x1	3699 06 60	5.5	13	12	19	8	21.5	0.017
	G1/8	3699 06 10	5.5	13	12	19	8	21.5	0.018
	G1/4	3699 06 13	6.5	16	12	19.5	8	21.5	0.022
8	G1/8	3699 08 10	5.5	13	15	20.5	10	23.5	0.021
	G1/4	3699 08 13	6.5	16	15	21.5	10	23.5	0.027
	G3/8	3699 08 17	7.5	20	15	21.5	10	23.5	0.033
10	G1/4	3699 10 13	6.5	16	17.5	27	12	29	0.037
	G3/8	3699 10 17	7.5	20	17.5	25.5	12	29	0.043
12	G1/4	3699 12 13	6.5	16	19.5	29.5	15	31	0.050
	G3/8	3699 12 17	7.5	20	19.5	28.5	15	31	0.057
	G1/2	3699 12 21	9	24	19.5	28.5	15	31	0.065
14	G3/8	3699 14 17	7.5	20	21.5	29	16	34	0.059
	G1/2	3699 14 21	9	24	21.5	29.5	16	34	0.062

The body swivels for positioning purposes.

Stud Fittings

3669 Extended Stud Elbow, Male BSPP and Metric Thread

FDA chemical nickel-plated brass, FKM

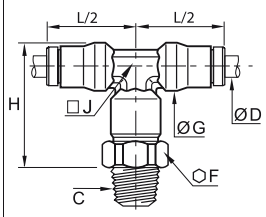


ØD	C		E	F	G	H	J	L	kg
4	M5x0.8	3669 04 19	3.5	10	10	27.5	7	18	0.014
	G1/8	3669 04 10	5.5	13	10	25.5	7	18	0.017
6	G1/8	3669 06 10	5.5	13	12	31	8	21.5	0.024
	G1/4	3669 06 13	6.5	16	12	30.5	8	21.5	0.028
8	G1/8	3669 08 10	5.5	14	15	33.5	10	23.5	0.031
	G1/4	3669 08 13	5.5	16	15	34	10	23.5	0.035
10	G1/4	3669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

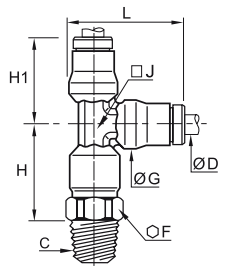


ØD	C		F	G	H	J	L/2	kg
4	R1/8	3608 04 10	10	10	24.5	7	18	0.020
6	R1/8	3608 06 10	13	12	29.5	8	21.5	0.031
	R1/4	3608 06 13	14	12	30.5	8	21.5	0.038
8	R1/8	3608 08 10	14	15	32.5	10	23.5	0.040
	R1/4	3608 08 13	14	15	34	10	23.5	0.047
10	R1/4	3608 10 13	18	17.5	39	12	29	0.067
	R3/8	3608 10 17	18	17.5	41	12	29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

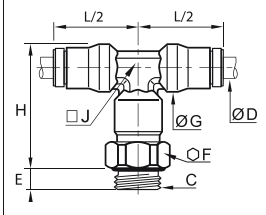


ØD	C		F	G	H	H1	J	L	kg
4	R1/8	3603 04 10	10	10	19.5	18	7	23	0.018
6	R1/8	3603 06 10	13	12	23.5	21.5	8	28	0.031
	R1/4	3603 06 13	14	12	24.5	21.5	8	28	0.037
8	R1/8	3603 08 10	14	15	25	23.5	10	31	0.041
	R1/4	3603 08 13	14	15	26.5	23.5	10	31	0.044
10	R1/4	3603 10 13	18	17.5	30.5	29	12	37.5	0.067
	R3/8	3603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



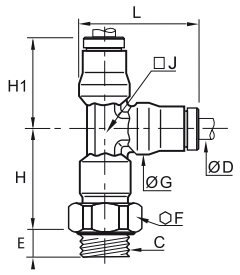
ØD	C		E	F	G	H	J	L/2	kg
4	M5x0.8	3698 04 19	3.5	10	10	27.5	7	18	0.018
	G1/8	3698 04 10	5.5	13	10	25.5	7	18	0.021
6	G1/8	3698 06 10	5.5	13	12	31	8	21.5	0.031
	G1/4	3698 06 13	6.5	16	12	30.5	8	21.5	0.035
8	G1/8	3698 08 10	5.5	14	15	33.5	10	23.5	0.041
	G1/4	3698 08 13	6.5	16	15	34	10	23.5	0.045
10	G1/4	3698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

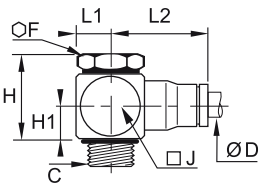


ØD	C		E	F	G	H	H1	J	L	kg
4	M5x0.8	3693 04 19	3.5	10	10	22.5	18	7	23	0.019
	G1/8	3693 04 10	5.5	13	10	20.5	18	7	23	0.021
6	G1/8	3693 06 10	5.5	13	12	25	21.5	8	28	0.031
	G1/4	3693 06 13	6.5	16	12	24.5	21.5	8	28	0.035
8	G1/8	3693 08 10	5.5	14	15	26.5	23.5	10	31	0.041
	G1/4	3693 08 13	6.5	16	15	26.5	23.5	10	31	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	3618 04 19	8	14.5	6.5	10	6	18.5	0.011
	G1/8	3618 04 10	14	23	9.5	17	10	20.5	0.029
6	M5x0.8	3618 06 19	8	15	7	10	6	22.5	0.015
	G1/8	3618 06 10	14	23	9.5	17	10	23.5	0.031
	G1/4	3618 06 13	17	22	9	22	13	25.5	0.049
8	G1/8	3618 08 10	14	23	9.5	17	10	26	0.033
	G1/4	3618 08 13	17	22	9	22	13	27.5	0.051
10	G3/8	3618 10 17	22	33	14	22	13	32	0.105

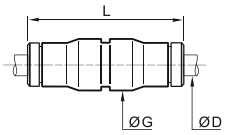
Maximum temperature: +80°C

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

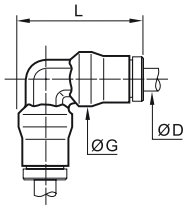
FDA chemical nickel-plated brass, FKM



ØD		G	L	kg
4	3606 04 00	10	30.5	0.010
6	3606 06 00	12	36.5	0.016
8	3606 08 00	15	37.5	0.021
10	3606 10 00	17.5	47.5	0.034
12	3606 12 00	19.5	50	0.042
14	3606 14 00	21.5	52.5	0.050

3602 Equal Elbow

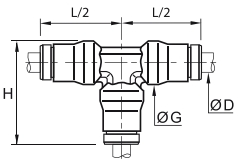
FDA chemical nickel-plated brass, FKM



ØD		G	L	kg
4	3602 04 00	10	23	0.010
6	3602 06 00	12	28	0.016
8	3602 08 00	15	31	0.023
10	3602 10 00	17.5	37.5	0.033
12	3602 12 00	19.5	40.5	0.045
14	3602 14 00	21.5	45	0.056

3604 Equal Tee

FDA chemical nickel-plated brass, FKM

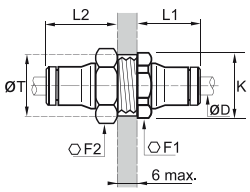


ØD		G	H	L/2	kg
4	3604 04 00	10	23	18	0.014
6	3604 06 00	12	28	21.5	0.023
8	3604 08 00	15	31	23.5	0.032
10	3604 10 00	17.5	37.5	29	0.048
12	3604 12 00	19.5	40.5	31	0.063
14	3604 14 00	21.5	45	34	0.078

Bulkhead Connector Fittings

3616 Equal Bulkhead Connector

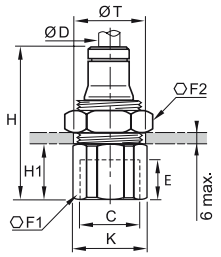
FDA chemical nickel-plated brass, FKM



ØD		F1	F2	K	L1	L2	ØT min	kg
4	3616 04 00	13	14	14	14	20	12.5	0.018
6	3616 06 00	16	17	17.5	17	22	15	0.028
8	3616 08 00	18	19	19.5	18.5	23.5	17	0.035
10	3616 10 00	22	27	24	21.5	26.5	21	0.063
12	3616 12 00	24	24	26	23	27	23	0.062
14	3616 14 00	27	27	29.5	25.5	29.5	25	0.079

3636 Bulkhead Connector, Female BSPP Thread

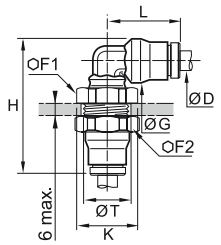
FDA chemical nickel-plated brass, FKM



ØD	C		E	F1	F2	H	H1	K	ØT min	kg
4	G1/8	3636 04 10	8.5	14	14	30.5	11	15	13	0.020
6	G1/8	3636 06 10	8.5	17	17	33	11	18.5	15	0.033
	G1/4	3636 06 13	11.5	17	17	37	15	18.5	15	0.033
8	G1/8	3636 08 10	8.5	19	19	34	10.5	21	17	0.044
	G1/4	3636 08 13	11.5	19	19	38	14.5	21	17	0.044
10	G3/8	3636 10 17	12	22	27	42.5	16	24	21	0.073
12	G3/8	3636 12 17	12	24	24	43	16	26	23	0.077
	G1/2	3636 12 21	16	27	24	48.5	21.5	29.5	23	0.133

3639 Equal Bulkhead Elbow

FDA chemical nickel-plated brass, FKM



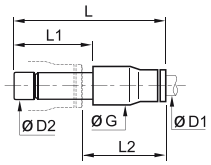
ØD		F1	F2	G	H	K	L	ØT min	kg
4	3639 04 00	13	14	10	35	14	18	12.5	0.023
6	3639 06 00	16	17	12	40.5	17.5	21.5	15	0.035
8	3639 08 00	18	19	15	44	19.5	23.5	17	0.046
10	3639 10 00	22	27	17.5	51	24	29	21	0.080
12	3639 12 00	24	24	19.5	55	26	31	23	0.086
14	3639 14 00	27	27	21.5	59	29.5	34	25	0.144

The body swivels for positioning purposes.

Plug-In Accessories

3666 Plug-In Reducer

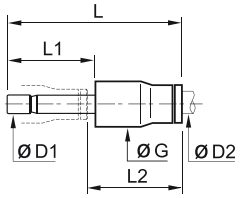
FDA chemical nickel-plated brass, FKM



ØD1	ØD2		G	L	L1	L2	kg
4	6	3666 04 06	10	35	19.5	18	0.008
	8	3666 04 08	10	35.5	20	18	0.009
6	8	3666 06 08	12	38	20	20.5	0.012
	10	3666 06 10	12	43.5	25	21	0.015
8	10	3666 08 10	15	44	25	21.5	0.016
	12	3666 08 12	15	44	26	20.5	0.018
10	12	3666 10 12	17.5	50	26	27	0.026
12	14	3666 12 14	19.5	53	28	28.5	0.032

3667 Plug-In Metric/Inch Adaptor

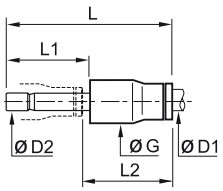
FDA chemical nickel-plated brass, FKM



ØD1	ØD2		G	L	L1	L2	kg
6	1/4	3667 06 56	12.5	38.5	19.5	21	0.012
10	3/8	3667 10 60	17	49.5	25	27	0.026
12	1/2	3667 12 62	20	51	26	27.5	0.030

3668 Plug-In Increaser

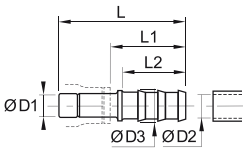
FDA chemical nickel-plated brass, FKM



ØD1	ØD2		G	L	L1	L2	kg
6	4	3668 06 04	12	36	17	21.5	0.010

3622 Plug-In Barb Connector

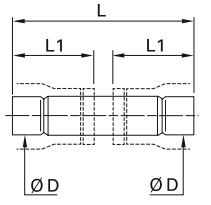
FDA chemical nickel-plated brass



ØD1	ØD2		ØD3	L	L1	L2	kg
4	3.2	3622 04 53	5	40.5	27	22.5	0.003
	5	3622 04 05	7	40.5	27	22.5	0.005
6	5	3622 06 05	7	43	27	22.5	0.006
8	6.3	3622 08 56	8.3	42	25	22.5	0.008
	8	3622 08 08	10	44	27	22.5	0.010
10	6.3	3622 10 56	8.3	47.5	25.5	22.5	0.011
	8	3622 10 08	10	47.5	25.5	22.5	0.011
12	8	3622 12 08	10	48.5	25.5	22.5	0.015
	10	3622 12 10	10	48.5	25.5	22.5	0.014
	12.5	3622 12 62	14.5	57	34	29.5	0.019
14	12.5	3622 14 62	16	57.5	33	29.5	0.023
	14	3622 14 14	16	59.5	35	29.5	0.023

3620 Male Stem Connector

FDA chemical nickel-plated brass

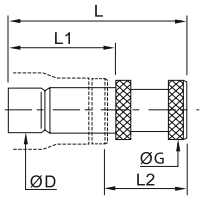


ØD		L	L1	kg
4	3620 04 00	31	14	0.002
6	3620 06 00	36.5	17	0.005
8	3620 08 00	37.5	17.5	0.007
10	3620 10 00	47.5	22.5	0.011
12	3620 12 00	49.5	23.5	0.015
14	3620 14 00	53	25	0.016

Plug-In Accessories

3626 Blanking Plug

FDA chemical nickel-plated brass



ØD		G	L	L1	L2	kg
4	3626 04 00	6	25.5	17.5	11.5	0.004
6	3626 06 00	8	30.5	19.5	13.5	0.009
8	3626 08 00	10	33	20	16	0.009
10	3626 10 00	12	40	25	18	0.015
12	3626 12 00	14	43	26	20	0.021
14	3626 14 00	16	47	28	22.5	0.029

0605 Fluoropolymer Tape

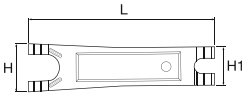
FKM

	kg
0605 12 12	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 70 00 Disconnection Tool

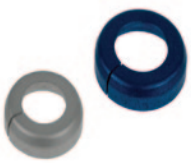
Treated steel



	H	H1	L	kg
3000 70 00	25	20	96	0.021

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

3610 Coloured Release Button Covers



Anodised aluminium

ØD			kg
6	3610 06 00	3610 06 04	0.004
8	3610 08 00	3610 08 04	0.007
10	3610 10 00	3610 10 04	0.011
12	3610 12 00	3610 12 04	0.013
14	3610 14 00	3610 14 04	0.016

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.

LF 3800/LF 3900 Push-In Fittings Range

Stud Fittings

Straights

3805 3905 BSPT Page 1-79

3805 NPT Page 1-79

3801 3901 BSPP/Metric Page 1-79

3821 3921 BSPT Page 1-80

3821 3921 NPT Page 1-80

3831 3931 BSPP/Metric Page 1-80

3800 3900 Page 1-81

Straights - Inch

3805 NPT Page 1-79

3821 NPT Page 1-80

Elbows

3809 3909 BSPT Page 1-81

3809 NPT Page 1-81

3899 3999 BSPP/Metric Page 1-81

3889 3989 BSPT Page 1-82

3889 NPT Page 1-82

3879 3979 BSPP Page 1-82

Elbow - Inch

3889 NPT Page 1-82

Tees

3803 3903 BSPT Page 1-83

3803 NPT Page 1-83

3893 3993 BSPP/Metric Page 1-83

3808 3908 BSPT Page 1-83

3808 NPT Page 1-84

3898 3998 BSPP/Metric Page 1-84

Tube-to-Tube Fittings

Straight

3806 3906 Page 1-85

Straight - Inch

3806 3906 Page 1-85

Elbow

3802 3902 Page 1-85

Elbow - Inch

3802 3902 Page 1-85

Tee

3804 3904 Page 1-85

Tee - Inch

3804 Page 1-86

Bulkhead Connector Fittings

Straight

3816 3916 Page 1-86

Straight - Inch

3816 3916 Page 1-86

Plug-In Fittings and Accessories

3866 3966 Reducer Page 1-87

3826 Plug Page 1-87

Accessories

3800 70 Page 1-87

0605 Page 1-87

3000 70 Page 1-87

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

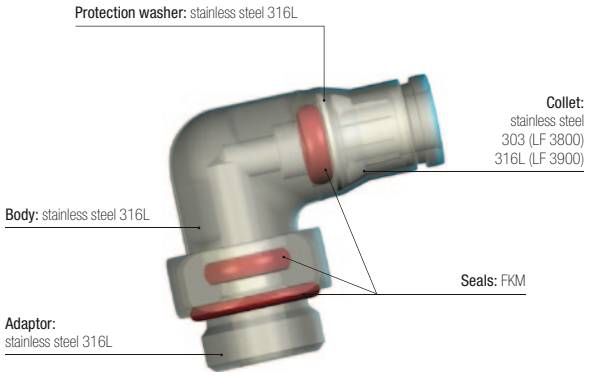
Technical Characteristics

Compatible Fluids	All fluids compatible with the fitting and tubing component materials
Working Pressure	Vacuum to 30 bar (20 bar: 3879/3979 and 3889/3989)
Working Temperature	-20° to +150°C

Adaptor Tightening Torque	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5
Bulkhead Tightening Torque	Ø (mm)	4	6	8	10	12
	daN.m min. max.	 0.5 0.9	 0.5 0.9	 0.6 1	 0.6 1	 0.6 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

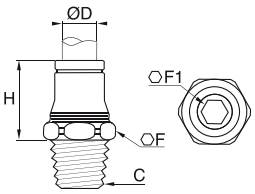
Regulations

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: 21CFR (FDA)
RG: 1935/2004/EC
USDA NSF H1: Grease

Stud Fittings

3805/3905 Stud Fitting, Male BSPT Thread

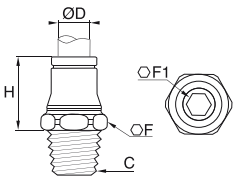
Stainless steel 316L, FKM



ØD	C			F	F1	H	kg
4	R1/8	3805 04 10	3905 04 10	10	3	14.5	0.008
	R1/4	3805 04 13	3905 04 13	14	3	14.5	0.016
6	R1/8	3805 06 10	3905 06 10	13	4	18	0.012
	R1/4	3805 06 13	3905 06 13	14	4	16.5	0.018
8	R1/8	3805 08 10	3905 08 10	15	5	19	0.015
	R1/4	3805 08 13	3905 08 13	15	6	18	0.018
	R3/8	3805 08 17	3905 08 17	17	6	18.5	0.025
10	R1/4	3805 10 13	3905 10 13	19	6	24	0.029
	R3/8	3805 10 17	3905 10 17	19	6	22.5	0.031
12	R1/4	3805 12 13	3905 12 13	22	7	25	0.035
	R3/8	3805 12 17	3905 12 17	22	8	24	0.038
	R1/2	3805 12 21	3905 12 21	22	10	23	0.046

3805 Stud Fitting, Male NPT Thread

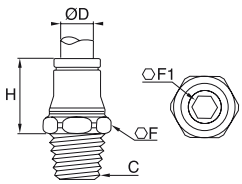
Stainless steel 316L, FKM



ØD	C		F	F1	H	kg
4	NPT1/8	3805 04 11	11	3	14.5	0.009
6	NPT1/8	3805 06 11	13	4	18	0.012
	NPT1/4	3805 06 14	14	4	16.5	0.017
8	NPT1/8	3805 08 11	15	5	19	0.015
	NPT1/4	3805 08 14	15	6	18	0.019
10	NPT1/4	3805 10 14	19	6	24	0.028
	NPT3/8	3805 10 18	19	7	22.5	0.031
12	NPT1/4	3805 12 14	22	7	25	0.035
	NPT3/8	3805 12 18	22	8	24	0.039
	NPT1/2	3805 12 22	22	10	23	0.045

3805 Stud Fitting, Male NPT Thread — Inch

Stainless steel 316L, FKM

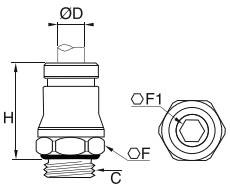


ØD	C		F	F1	H	kg
3/16	NPT1/8	3805 55 11	10	3	15.5	0.010
	NPT1/4	3805 55 14	14	3	15.5	0.016
1/4	NPT1/8	3805 56 11	13	4	19	0.012
	NPT1/4	3805 56 14	14	4	17.5	0.017
3/8	NPT1/4	3805 60 14	19	6	25	0.029
	NPT3/8	3805 60 18	19	7	24	0.032
1/2	NPT1/4	3805 62 14	22	7	26	0.039
	NPT3/8	3805 62 18	22	8	25	0.042
	NPT1/2	3805 62 22	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

Stainless steel 316L, FKM



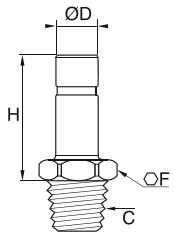
ØD	C			F	F1	H	kg
4	M5x0.8	3801 04 19	3901 04 19	10	2.5	17	0.006
	G1/8	3801 04 10	3901 04 10	13	3	16.5	0.009
6	M5x0.8	3801 06 19	3901 06 19	13	2.5	20.5	0.010
	G1/8	3801 06 10	3901 06 10	13	4	18	0.010
	G1/4	3801 06 13	3901 06 13	17	4	18	0.015
8	G1/8	3801 08 10	3901 08 10	15	5	19	0.013
	G1/4	3801 08 13	3901 08 13	17	5	20.5	0.017
	G3/8	3801 08 17	3901 08 17	21	6	20	0.027
10	G1/4	3801 10 13	3901 10 13	19	7	25	0.025
	G3/8	3801 10 17	3901 10 17	21	7	25	0.035
12	G1/4	3801 12 13	3901 12 13	21	7	27	0.030
	G3/8	3801 12 17	3901 12 17	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

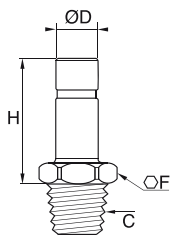
Stainless steel 316L



ØD	C			F	H	kg
4	R1/8	3821 04 10	3921 04 10	10	21	0.006
6	R1/8	3821 06 10	3921 06 10	10	23	0.007
	R1/4	3821 06 13	3921 06 13	14	24	0.015
8	R1/8	3821 08 10	3921 08 10	11	24	0.008
	R1/4	3821 08 13	3921 08 13	14	25	0.015
10	R1/4	3821 10 13	3921 10 13	19	30	0.020
	R3/8	3821 10 17	3921 10 17	19	30	0.022
12	R1/4	3821 12 13	3921 12 13	19	31	0.017
	R3/8	3821 12 17	3921 12 17	19	31	0.022
	R1/2	3821 12 21	3921 12 21	22	32	0.040

3821/3921 Stud Standpipe, Male NPT Thread

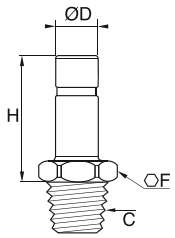
Stainless steel 316L



ØD	C			F	H	kg
4	R1/8	3821 04 11	3921 04 11	10	21	0.006
6	R1/8	3821 06 11	3921 06 11	10	23	0.008
	R1/4	3821 06 14	3921 06 14	14	24	0.016
8	R1/8	3821 08 11	3921 08 14	14	24	0.010
	R1/4	3821 08 14	3921 08 14	14	25	0.016
10	R1/4	3821 10 14	3921 10 14	14	30	0.016
	R3/8	3821 10 18	3921 10 18	17	30	0.022
12	R1/4	3821 12 14	3921 12 14	14	31	0.022
	R3/8	3821 12 18	3921 12 18	17	31	0.026
	R1/2	3821 12 22	3921 12 22	22	32	0.052

3821 Stud Standpipe, Male NPT Thread — Inch

Stainless steel 316L

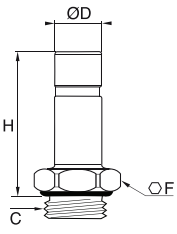


ØD	C		F	H	kg
3/16	NPT1/8	3821 55 11	9.9	24.9	0.009
1/4	NPT1/8	3821 56 11	9.9	25.9	0.009
	NPT1/4	3821 56 14	14	26.9	0.018
3/8	NPT1/4	3821 60 14	19	32	0.018
	NPT3/8	3821 60 18	19	32	0.029
1/2	NPT1/4	3821 62 14	19	36.1	0.033
	NPT3/8	3821 62 18	19	37.1	0.037
	NPT1/2	3821 62 22	22.1	37.1	0.055

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

3831/3931 Stud Standpipe, Male BSPP and Metric Thread

Stainless steel 316L, FKM



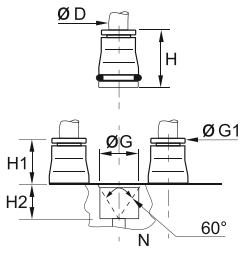
ØD	C			F	H	K	kg
4	M5x0.8	3831 04 19	3931 04 19	7	23.5	8	0.005
	G1/8	3831 04 10	3931 04 10	13	22	14	0.008
	G1/4	3831 04 13	3931 04 13	17	22	18.5	0.016
6	G1/8	3831 06 10	3931 06 10	13	24	14	0.009
	G1/4	3831 06 13	3931 06 13	17	24	18.5	0.015
8	G1/8	3831 08 10	3931 08 10	13	25	14	0.010
	G1/4	3831 08 13	3931 08 13	17	27	18.5	0.018
	G3/8	3831 08 17	3931 08 17	21	27	23	0.025
10	G1/4	3831 10 13	3931 10 13	17	32	18.5	0.020
	G3/8	3831 10 17	3931 10 17	21	27	23	0.026
12	G1/4	3831 12 13	3931 12 13	17	33	18.5	0.022
	G3/8	3831 12 17	3931 12 17	21	33	23	0.028
	G1/2	3831 12 21	3931 12 21	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

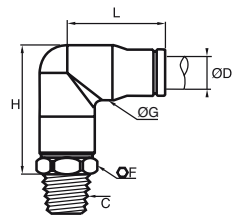


ØD			L	G	G1	H	H1	H2	kg
4	3800 04 00	3900 04 00	9.8	8	17	8.5	8.5	11	0.006
6	3800 06 00	3900 06 00	12.1	10	19	10.5	8.5	13.5	0.008
8	3800 08 00	3900 08 00	14.8	13	21	12.5	8.5	16	0.012
10	3800 10 00	3900 10 00	17.5	15	24.5	14	10.5	20	0.019
12	3800 12 00	3900 12 00	20	17	25	14.5	10.5	22.5	0.023

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

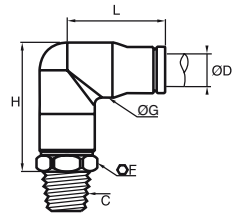


ØD	C			F	G	H	L	kg
4	R1/8	3809 04 10	3909 04 10	10	10	23.5	16.5	0.020
6	R1/8	3809 06 10	3909 06 10	13	12	27.5	20	0.031
	R1/4	3809 06 13	3909 06 13	14	12	27.5	25	0.036
8	R1/8	3809 08 10	3909 08 10	14	15	32	25	0.041
	R1/4	3809 08 13	3909 08 13	14	14.5	34	25	0.046
10	R1/4	3809 10 13	3909 10 13	19	17.5	37.5	27.5	0.068
	R3/8	3809 10 17	3909 10 17	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

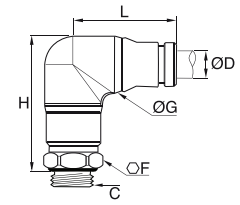


ØD	C		F	G	H	L	kg
4	NPT1/8	3809 04 11	11	10	25.5	18.5	0.021
6	NPT1/8	3809 06 11	13	12.5	29	22.5	0.025
	NPT1/4	3809 06 14	14	12.5	29	22.5	0.030
8	NPT1/8	3809 08 11	14	15	34	24	0.041
	NPT1/4	3809 08 14	14	15	34	24	0.046
10	NPT1/4	3809 10 14	19	17.5	39.5	30	0.057
	NPT3/8	3809 10 18	19	17.5	39.5	30	0.071

The body swivels for positioning purposes.

3899/3999 Stud Elbow, Male BSPP and Metric Thread

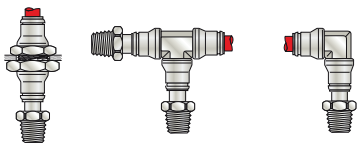
Stainless steel 316L, FKM



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

The body swivels for positioning purposes.

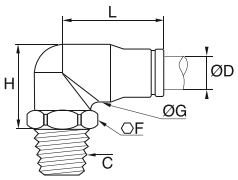
Stud standpipe 3821, 3921, 3831, 3931 can be used as illustrated, allowing:
- stock optimisation
- installation of tees and elbows where required



Stud Fittings

3889/3989 Compact Stud Elbow, Male BSPT Thread

Stainless steel 316L, FKM

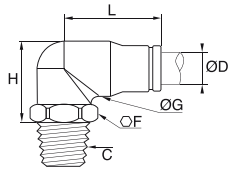


ØD	C			F	G	H	L	kg
4	R1/8	3889 04 10	3989 04 10	13	10	18	17	0.018
	R1/4	3889 04 13	3989 04 13	17	10	19.5	16.5	0.025
6	R1/8	3889 06 10	3989 06 10	13	12	21.5	20.5	0.026
	R1/4	3889 06 13	3989 06 13	14	12	21.5	20.5	0.032
8	R1/8	3889 08 10	3989 08 10	14	15	24	22	0.036
	R1/4	3889 08 13	3989 08 13	14	15	24	22	0.041
10	R1/4	3889 10 13	3989 10 13	17	17.5	28.5	27.5	0.057
	R3/8	3889 10 17	3989 10 17	19	17.5	28.5	27.5	0.062
12	R1/4	3889 12 13	3989 12 13	22	20	33.5	30	0.086
	R3/8	3889 12 17	3989 12 17	22	20	33.5	30	0.088
	R1/2	3889 12 21	3989 12 21	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

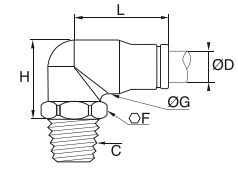


ØD	C		F	G	H	L	kg
4	NPT1/8	3889 04 11	13	10	17.5	19	0.019
6	NPT1/8	3889 06 11	13	12.5	20	22.5	0.020
	NPT1/4	3889 06 14	14	12.5	20	22.5	0.033
8	NPT1/8	3889 08 11	13	15	25	24	0.037
	NPT1/4	3889 08 14	14	15	24	24	0.037
10	NPT1/4	3889 10 14	17	17.5	27.5	27.5	0.058
	NPT3/8	3889 10 18	19	17.5	28.5	26.5	0.067
12	NPT1/4	3889 12 14	22	20	31.5	32.5	0.070
	NPT3/8	3889 12 18	22	20	32.5	32.5	0.087
	NPT1/2	3889 12 22	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

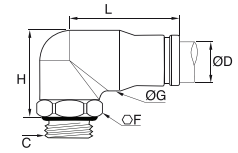


ØD	C		F	G	H	L	kg
3/16	NPT1/8	3889 55 11	10	9.9	20.6	19.6	0.019
	NPT1/4	3889 55 14	14	9.9	20.6	19.6	0.022
1/4	NPT1/8	3889 56 11	13	11.9	21.6	23.1	0.026
	NPT1/4	3889 56 14	14	11.9	21.6	23.1	0.031
3/8	NPT1/4	3889 60 14	17	17.5	28.4	30.5	0.059
	NPT3/8	3889 60 18	19	17.5	28.4	30.5	0.062
1/2	NPT1/4	3889 62 14	22	20.1	34	33	0.086
	NPT3/8	3889 62 18	22	20.1	34	33	0.088
	NPT1/2	3889 62 22	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



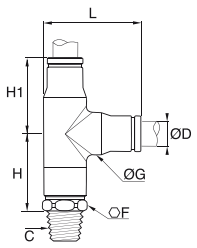
ØD	C			F	G	H	L	kg
4	G1/8	3879 04 10	3979 04 10	10	11	22	19	0.021
	G1/4	3879 04 13	3979 04 13	17	11	20	19	0.026
6	G1/8	3879 06 10	3979 06 10	13	12	24	24	0.029
	G1/4	3879 06 13	3979 06 13	17	12	22	24	0.034
8	G1/8	3879 08 10	3979 08 10	13	15	25	25	0.035
	G1/4	3879 08 13	3979 08 13	17	15	25	25	0.040
	G3/8	3879 08 17	3979 08 17	21	15	23	25	0.048
10	G1/4	3879 10 13	3979 10 13	18	17	43	31	0.056
	G3/8	3879 10 17	3979 10 17	21	17	40	31	0.067
12	G1/4	3879 12 13	3979 12 13	17	20	33	33	0.075
	G3/8	3879 12 17	3979 12 17	21	20	33	33	0.082
	G1/2	3879 12 21	3979 12 21	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

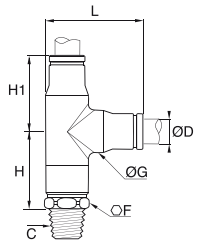


ØD	C			F	G	H	H1	L	kg
4	R1/8	3803 04 10	3903 04 10	10	10	19	17	22	0.020
6	R1/8	3803 06 10	3903 06 10	13	12	22	20	26.5	0.038
	R1/4	3803 06 13	3903 06 13	14	15	22	20	27	0.035
8	R1/8	3803 08 10	3903 08 10	14	15	24	23	31	0.050
	R1/4	3803 08 13	3903 08 13	14	15	24	23	31	0.055
10	R1/4	3803 10 13	3903 10 13	19	17.5	30	29	38	0.070
	R3/8	3803 10 17	3903 10 17	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

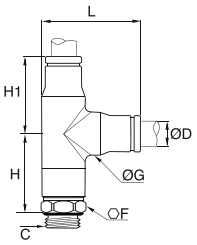


ØD	C		F	G	H	H1	L	kg
4	NPT1/8	3803 04 11	11	10	21	19	25	0.020
6	NPT1/8	3803 06 11	13	12	24	21	27	0.031
	NPT1/4	3803 06 14	14	12	24	21	27.5	0.037
8	NPT1/8	3803 08 11	14	15	26.5	24	30.5	0.050
	NPT1/4	3803 08 14	14	15	26.5	24	30.5	0.048
10	NPT1/4	3803 10 14	19	17.5	31	29.5	37.5	0.084

The body swivels for positioning purposes.

3893/3993 Stud Run Tee, Male BSPP and Metric Thread

Stainless steel 316L, FKM

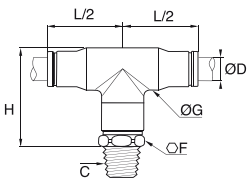


ØD	C			F	G	H	H1	L	kg
4	M5x0.8	3893 04 19	3993 04 19	10	11	21.5	19	24.5	0.023
	G1/8	3893 04 10	3993 04 10	13	11	21.5	19	24.5	0.026
	G1/4	3893 04 13	3993 04 13	17	11	22	19	28	0.033
6	G1/8	3893 06 10	3993 06 10	13	12	26.5	24	30	0.038
	G1/4	3893 06 13	3993 06 13	17	12	26	24	32	0.044
8	G1/8	3893 08 10	3993 08 10	14	15	27.5	25	32	0.049
	G1/8	3893 08 13	3993 08 13	17	15	28	25	33.5	0.054
	G3/8	3893 08 17	3993 08 17	21	15	27	25	35.5	0.094
10	G1/4	3893 10 13	3993 10 13	19	17	35.5	31	39.5	0.081
	G3/8	3893 10 17	3993 10 17	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



ØD	C			F	G	H	L/2	kg
4	R1/8	3808 04 10	3908 04 10	10	10	23.5	19	0.020
6	R1/8	3808 06 10	3908 06 10	13	12	27.5	24	0.038
	R1/4	3808 06 13	3908 06 13	14	12	27.5	24	0.043
8	R1/8	3808 08 10	3908 08 10	14	15	32	25	0.049
	R1/4	3808 08 13	3908 08 13	14	15	32	25	0.048
	R3/8	3808 08 17	3908 08 17	19	15	33	25	0.068
10	R1/4	3808 10 13	3908 10 13	19	17.5	37.5	31	0.081
	R3/8	3808 10 17	3908 10 17	19	17.5	37.5	31	0.070

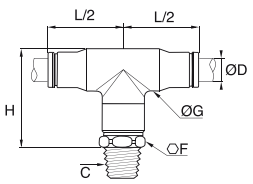
The body swivels for positioning purposes.

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

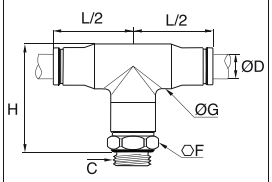


ØD	C		F	G	H	L/2	kg
4	NPT1/8	3808 04 11	11	10	22	19	0.021
6	NPT1/8	3808 06 11	13	12.5	30	24	0.031
	NPT1/4	3808 06 14	14	12.5	30	24	0.044
8	NPT1/8	3808 08 11	14	15	34	25	0.042
	NPT1/4	3808 08 14	14	15	34	25	0.048
10	NPT1/4	3808 10 14	19	17.5	40	31	0.069
	NPT3/8	3808 10 18	19	17.5	40	31	0.084

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	3898 04 19	3998 04 19	10	11	27	19	0.024
	G1/8	3898 04 10	3998 04 10	13	11	27	19	0.026
	G1/4	3898 04 13	3998 04 13	17	11	27	19	0.032
6	M5x0.8	3898 06 19	3998 06 19	13	12	33.5	24	0.038
	G1/8	3898 06 10	3998 06 10	13	12	33	24	0.038
	G1/4	3898 06 13	3998 06 13	17	12	32	24	0.043
8	G1/8	3898 08 10	3998 08 10	14	15	35	25	0.051
	G1/4	3898 08 13	3998 08 13	17	15	35	25	0.054
	G3/8	3898 08 17	3998 08 17	21	15	34.5	25	0.058
10	G1/4	3898 10 13	3998 10 13	19	17	43	31	0.082
	G3/8	3898 10 17	3998 10 17	21	17	41	31	0.087

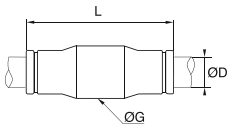
The body swivels for positioning purposes.

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

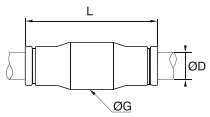
Stainless steel 316L, FKM



ØD			G	L	kg
4	3806 04 00	3906 04 00	10	29	0.009
6	3806 06 00	3906 06 00	12	34	0.015
8	3806 08 00	3906 08 00	15	36	0.019
10	3806 10 00	3906 10 00	17.5	45	0.032
12	3806 12 00	3906 12 00	20	46.5	0.041

3806/3906 Equal Straight Connector Inch

Stainless steel 316L, FKM

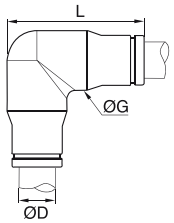


ØD			G	L	kg
3/16	3806 55 00	3906 55 00	9.9	30	0.010
1/4	3806 56 00	3906 56 00	11.9	35.1	0.015
3/8	3806 60 00	3906 60 00	17.5	46	0.030
1/2	3806 62 00	3906 62 00	20.1	48	0.040

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

3802/3902 Equal Stud Elbow

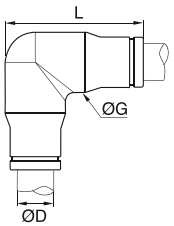
Stainless steel 316L, FKM



ØD			G	L	kg
4	3802 04 00	3902 04 00	10	21.5	0.015
6	3802 06 00	3902 06 00	12	26.5	0.024
8	3802 08 00	3902 08 00	15	29.5	0.031
10	3802 10 00	3902 10 00	17.5	36.5	0.051
12	3802 12 00	3902 12 00	20	40	0.069

3802/3902 Equal Stud Elbow Inch

Stainless steel 316L, FKM

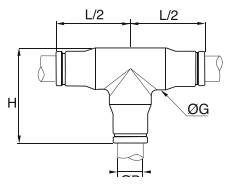


ØD			G	L	kg
3/16	3802 55 00	3902 55 00	9.9	24.4	0.011
1/4	3802 56 00	3902 56 00	11.9	29	0.023
3/8	3802 60 00	3902 60 00	17.5	39.6	0.042
1/2	3802 62 00	3902 62 00	20.1	40.9	0.070

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

3804/3904 Equal Tee

Stainless steel 316L, FKM



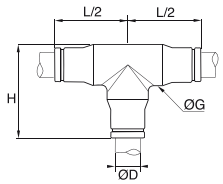
ØD			G	L	L/2	kg
4	3804 04 00	3904 04 00	10	22	19	0.015
6	3804 06 00	3904 06 00	12	26	24	0.031
8	3804 08 00	3904 08 00	15	29.5	25	0.041
10	3804 10 00	3904 10 00	17.5	36.5	31	0.064
12	3804 12 00	3904 12 00	20	40	33	0.064

Bulkhead Connector Fittings

3804/3904 Equal Tee

Inch

Stainless steel 316L, FKM

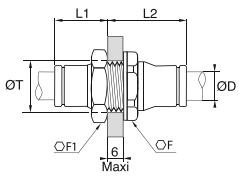


ØD			G	H	L/2	kg
3/16	3804 55 00	3904 55 00	9.9	22.6	19	0.017
1/4	3804 56 00	3904 56 00	11.9	26.9	22	0.031
3/8	3804 60 00	3904 60 00	17.5	37.6	30	0.059
1/2	3804 62 00	3904 62 00	20.1	40.9	32	0.090

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

3816/3916 Equal Bulkhead Connector

Stainless steel 316L, FKM



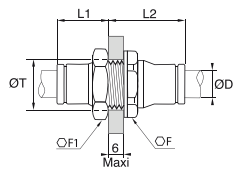
ØD			F	F1	L1	L2	ØT	kg
4	3816 04 00	3916 04 00	13	14	13.5	19.5	13	0.017
6	3816 06 00	3916 06 00	17	17	16.5	21.5	14	0.027
8	3816 08 00	3916 08 00	19	19	18	24	16	0.034
10	3816 10 00	3916 10 00	22	22	21.5	27.5	21	0.049
12	3816 12 00	3916 12 00	24	24	24	29	23	0.059

IP51 sealing

3816/3916 Equal Bulkhead Connector

Inch

Stainless steel 316L, FKM



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

IP51 sealing
5/32" (4 mm) and 5/16" (8 mm) also available

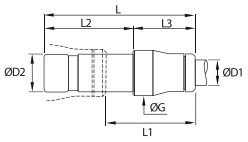
LF 3800/LF 3900 push-in fittings allow connection with several types of Parker Legris tubing shown in Chapter 3 of this catalogue, "Technical Tubing and Hose":

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

Plug-In Fittings and Accessories

3866/3966 Push-In Reducer

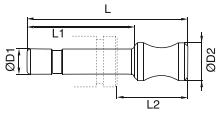
Stainless steel 316L, FKM



ØD1	ØD2			G	L	L1	L2	L3	kg
4	6	3866 04 06	3966 04 06	10	35	19	19	16	0.009
	8	3866 04 08	3966 04 08	10	34	17	20	14	0.011
6	8	3866 06 08	3966 06 08	12	42	24	23	19	0.015
	10	3866 06 10	3966 06 10	12	41	19	25	16	0.019
8	10	3866 08 10	3966 08 10	15	45	22.5	25	20	0.021
	12	3866 08 12	3966 08 12	15	43	20	26	17	0.025
10	12	3866 10 12	3966 10 12	17	50	23	26	24	0.029

3826 Blanking Plug

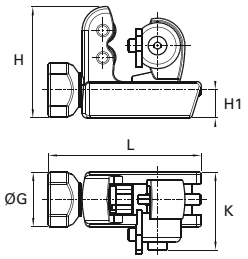
Stainless steel 316L



ØD1	ØD2		L	L1	L2	kg
4	6	3826 04 00	25	17	11	0.003
6	8	3826 06 00	30.4	19.5	13.5	0.007
8	10	3826 08 00	33	20	14	0.014
10	12	3826 10 00	40	25	17	0.025
12	14	3826 12 00	43	26	19	0.038

3800/3900 Pre-Grooving Tool for Stainless Steel Tubing

Treated steel



		G	H	H1	K	L	kg
3800 70 00	3900 70 00	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

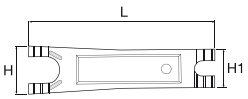
FKM

	kg
0605 12 12	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 Disonnection Tool

Treated steel



	H	H1	L	kg
3000 70 00	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 Fitings

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

Applications

Construction Equipment
Lubrication
Transportation
Measurement Systems
Industrial Machines
Industrial Vacuum

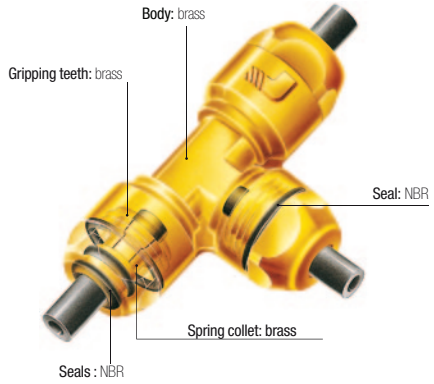
Technical Characteristics

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

Max./Min. Tightening Torques (daN.m)	Thread	M6 x1	M8 x1	M8 x1.25	M10 x1	M12 x1	M14 x1.5	R 1/8	R 1/4
	Taper	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
	Parallel	-	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

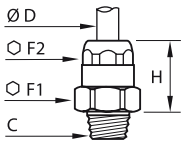
	-20°C to +20°C		+20°C to +30°C		+30°C to +50°C		+50°C to +80°C		+80°C to 120°C
O.D. of Tube	Semi-Rigid PA	Rigid PA	Semi-Rigid PA	Rigid PA	Semi-Rigid PA	Rigid PA	Semi-Rigid PA	Rigid PA	FEP
2x4	40	-	33	-	25.5	-	19	-	-
2.5x4	-	52	-	43	-	32	-	24.5	7
2.7x4	23	-	19	-	15	-	11	-	-
4x6	24	45	20	37	15.5	29	11	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

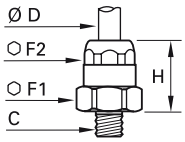
Brass, NBR



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

6101 Stud Fitting, Male Parallel and Metric Thread

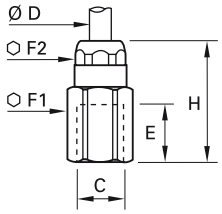
Brass, NBR



ØD	C		F1	F2	H	kg
4	M10x1	6101 04 60	13	11	14	0.014
6	M10x1	6101 06 60	17	14	17.5	0.026
	M12x1	6101 06 65	17	14	16.5	0.025

6114 Stud Fitting, Female Metric Parallel Thread

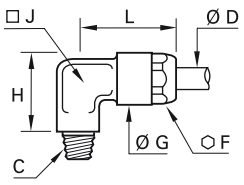
Brass, NBR



ØD	C		E	F1	F2	H	kg
4	M8x1	6114 04 56	8	13	11	25.5	0.021
6	M8x1	6114 06 56	8	17	14	28.5	0.043

6179 Stud Elbow, Male BSPT and Taper Metric Thread

Brass, NBR

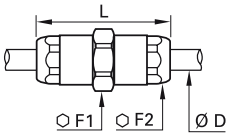


ØD	C		F	G	H	J	L	kg
4	M6x1	6179 04 52	11	12.5	14.5	6	20	0.014
	M8x1	6179 04 56	11	12.5	15	6	20	0.015
	M8x1.25	6179 04 57	11	12.5	15	6	20	0.015
	M10x1	6179 04 60	11	12.5	15.5	6	20	0.016
	R1/8	6179 04 10	11	12.5	15.5	6	20	0.017
	R1/4	6179 04 13	11	12.5	17	6	20	0.022
6	M10x1	6179 06 60	14	16	18	8	25.5	0.030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

Tube-to-Tube Fittings

6106 Tube-to-Tube Connector

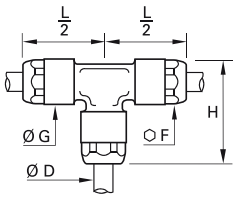
Brass, NBR



ØD		F1	F2	L	kg
4	6106 04 00	13	11	34	0.025
6	6106 06 00	17	14	39	0.044
8	6106 08 00	19	17	46	0.069

6104 Equal Tee

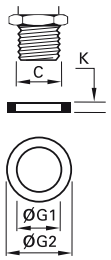
Brass, NBR



ØD		F	G	H	L/2	kg
4	6104 04 00	11	12.5	26.5	20	0.032
6	6104 06 00	14	16	32.5	25.5	0.066
8	6104 08 00	17	19	38	30	0.103

0138 Copper Washer

Copper



C		G1	G2	K	kg
M8	0138 08 00	8.3	11	1	0.001
M10	0138 10 00	10.3	13.5	1	0.001
M12	0138 12 00	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®
Page 2-8

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

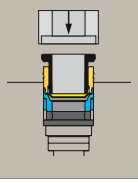
Applications
Robotics
Automotive Process
Pneumatics
Semi-Conductors
Water & Beverage
Packaging
Vacuum

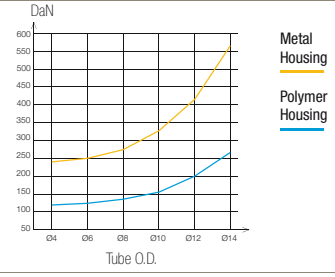
Technical Characteristics

	LF 3000® Carstick® and Quick Fitting	LIQUIfit® Carstick®
Compatible Fluids	Compressed air	Food fluids, inert gases
Working Pressure	Vacuum to 20 bar	Vacuum to 16 bar*
Working Temperature	-20°C to +80°C	-10°C to +95°C*

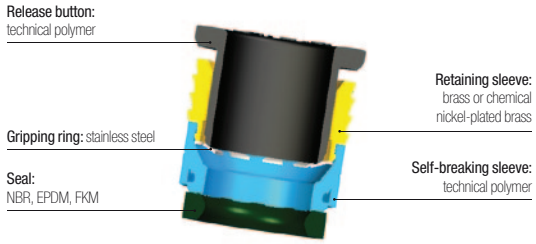
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used. Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).
*The pressure/temperature information is shown in Chapter 1, in the "LIQUIfit®" section.

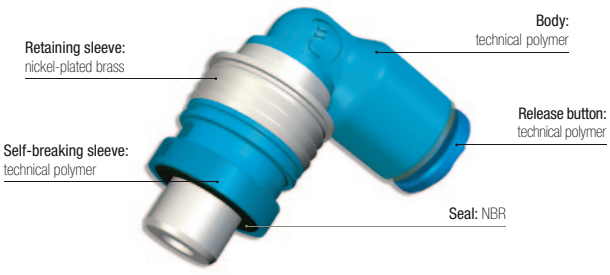
Insertion Force





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)

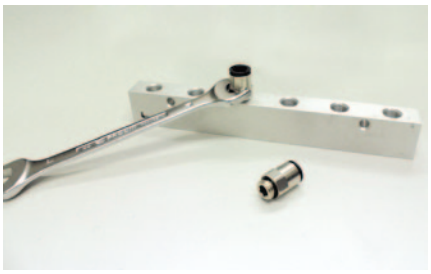
LIQUIfit® Carstick®
RG: 1935/2004/CE
FDA: 21 CFR 177.1550
NSF 51 to 95°C
ACS
DM 174 (Italy)
DI: 2002/95/CE (RoHS), 2011/65/CE
DI: 97/23/CE (PED)
WRAS
NSF/ANSI 61 - C HOT
KTW: cartridges on request

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.

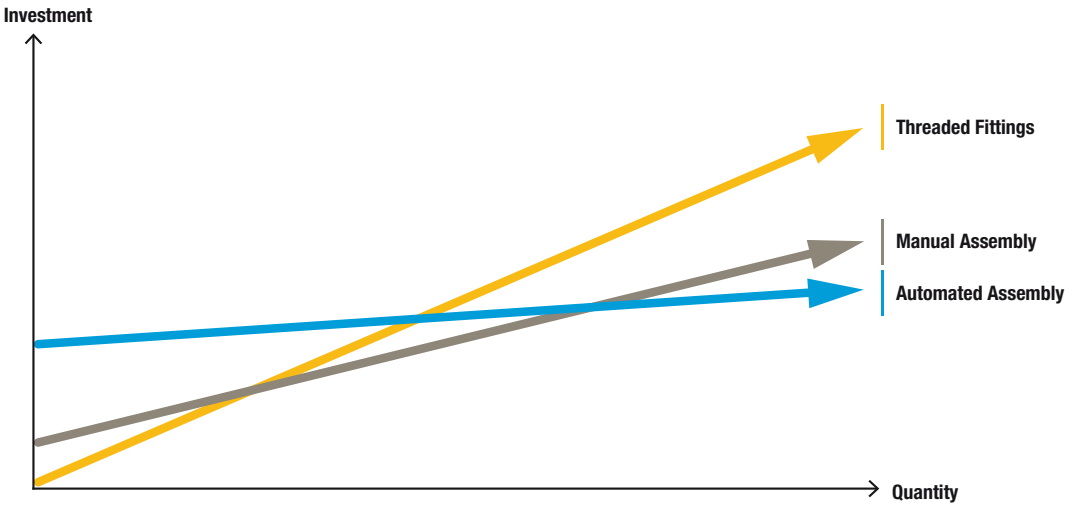


Carstick®: Manual Assembly

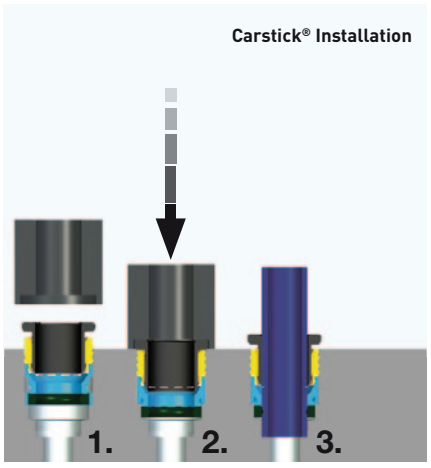
For medium quantities:
Assembly by manually-operated press offers the most economic solution.

Carstick®: Automated Assembly

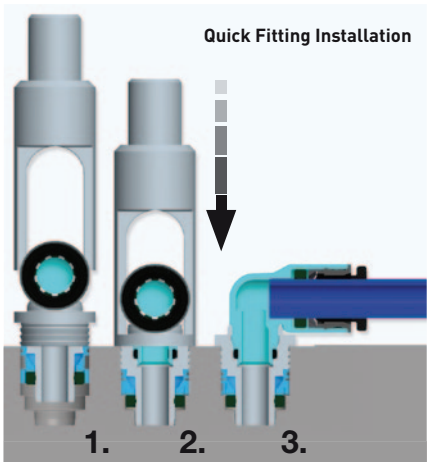
For repetitive operations and large quantities:
Investment in an automated manufacturing solution is quickly recovered, providing significant long-term savings.



Installation

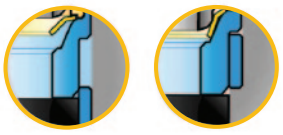


Assembly tool:
For details on the assembly tool, please contact us.



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

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

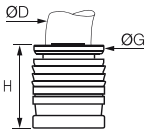


3. Tube connection.

Polymer Cartridges for Compressed Air

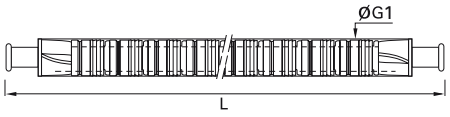
3100 Carstick® Cartridge

Brass, NBR



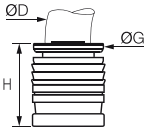
ØD		G	G1	H	L	kg
4	3100 04 00	8	11	10	554	0.001
6	3100 06 00	10	14.5	11.5	629	0.002
8	3100 08 00	13	15	15	794	0.002
10	3100 10 00	15.5	19.5	17	930	0.005
12	3100 12 00	19.5	21	19.5	1038	0.010

50 cartridges per Carstick®



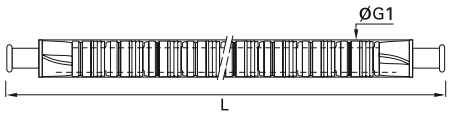
3100 Carstick® Cartridge — Inch

Nickel-plated brass, NBR



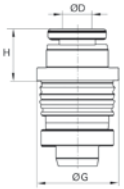
ØD		G	G1	H	L	kg
1/8	3100 53 00 99	7	10	9	508	0.002
1/4	3100 56 00 99	10.5	14.5	12	600	0.003
3/8	3100 60 00 99	15.5	19	16.5	930	0.006

50 cartridges per Carstick®
5/32" (4 mm) and 5/16" (8 mm) also available



3086 Quick Fitting Reducer

Nickel-plated brass, NBR

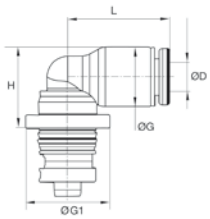


ØD		Cavity	G	H	kg
4	3086 04 06	6	12.5	7	0.005
6	3086 06 08	8	14	7.5	0.008

Available on request

3089 Quick Fitting Elbow

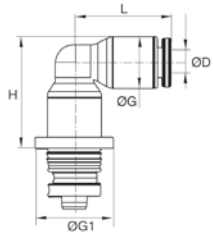
Technical polymer, nickel-plated brass, NBR



ØD		Cavity	G	G1	H	L	kg
4	3089 04 04	4	9	12.5	11.5	15	0.004
	3089 04 06	6	9	12.5	11.5	15	0.005
6	3089 06 04	4	11	12.5	14	17	0.004
	3089 06 06	6	11	12.5	12.5	17	0.006
	3089 06 08	8	11	14.5	13	17	0.010
8	3089 08 08	8	13.5	14.5	16	23	0.011
	3089 08 10	10	13.5	19	16	23	0.021
10	3089 10 10	10	16	19	19	26.5	0.017
	3089 10 12	12	16	20	19	26.5	0.028
12	3089 12 12	12	19	20	22	31	0.030

3082 Quick Fitting Extended Elbow

Technical polymer, nickel-plated brass, NBR



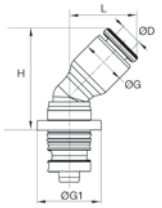
ØD		Cavity	G	G1	H	L	kg
4	3082 04 04	4	9	12.5	16	15	0.006
	3082 04 06	6	9	12.5	15	15	0.009
6	3082 06 06	6	9	12.5	23	19	0.010
	3082 06 08	8	10.5	14	29	18.5	0.014
8	3082 08 08	8	13.5	17	29.5	22.5	0.021
	3082 08 10	10	13.5	19	29	23	0.025
10	3082 10 10	10	16	20	33	26	0.029
	3082 10 12	12	16	20	33	26	0.040
12	3082 12 12	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

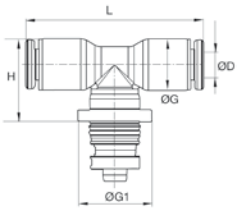


ØD		Cavity	G	G1	H	L	kg
4	3081 04 04	4	9	12.5	19	13	0.004
6	3081 06 06	6	11	12.5	22	14.5	0.006
8	3081 08 08	8	13.5	14.5	26	19	0.011
10	3081 10 10	10	16	19	30	22	0.017
12	3081 12 12	12	19	20	35.5	26	0.031

Available on request

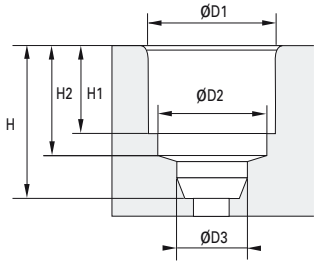
3088 Quick Fitting Tee

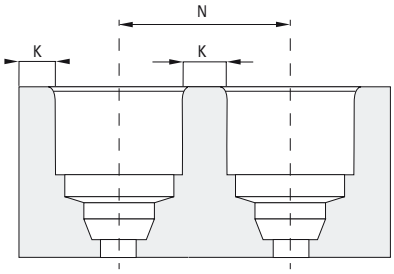
Technical polymer, nickel-plated brass, NBR



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

Cavity Dimensions





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

All our dimensions are in millimeters.

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

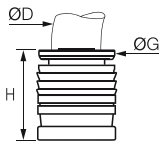
*Carstick® / **Quick Fitting

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

Polymer Cartridges for Fluids and Gases

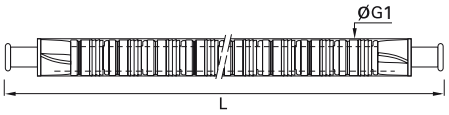
6300 LIQUIfit® Cartridge

Laiton, EPDM



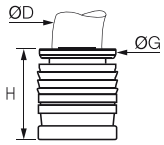
ØD		G	G1	H	L	kg
4	6300 04 00	8	11	10	554	0.002
6	6300 06 00	10	14.5	11.5	629	0.002
8	6300 08 00	13	15	15	794	0.003
10	6300 10 00	15.5	19.5	17	930	0.005
12	6300 12 00	18.5	21	19.5	1038	0.010

50 cartridges per Carstick®



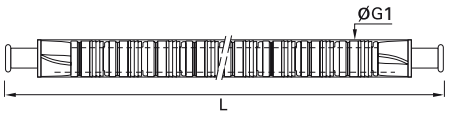
6300 LIQUIfit® Cartridge Inch

Laiton, EPDM

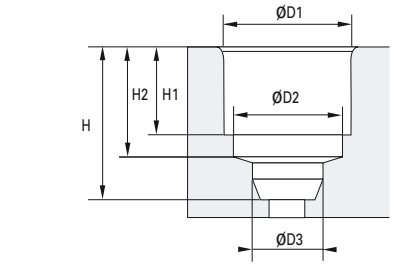


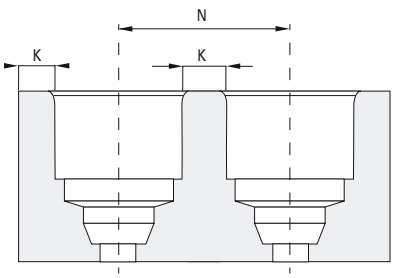
ØD		G	G1	H	L	kg
1/4	6300 56 00	10.5	14.5	12.5	600	0.002
3/8	6300 60 00	15.5	19	17	930	0.005
1/2	6300 62 00	22	25	23	1038	0.011

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

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

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

All our dimensions are in millimeters.

Plan 1x

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
LF 3800
LF 3900

- All the advantages of the LF 3600, LF 3800 and LF 3900 fittings applied to cartridge technology
- All-metal product to provide the greatest mechanical strength and chemical resistance
- 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	
Compatible Fluids	Fluids: see corresponding chapters
Working Pressure	Vacuum to 30 bar
Working Temperature	-20°C to +150°C
Component Materials	See corresponding chapters

TL Cartridge	
Compatible Fluids	Compressed air
Working Pressure	0.01 to 16 bar
Working Temperature	-25°C to +80°C
Component Materials	**Body:** brass **Release button:** technical polymer **Gripping ring:** stainless steel **Seals:** NBR

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).

Regulations

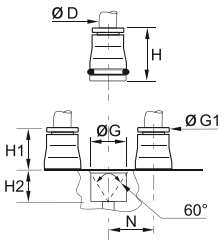
LF 3600, LF 3800, LF 3900
DI: 97/23/CE (PED)
RG: 21CFR (FDA)
RG: 1935/2004/CE
(minimum flow 0.02 l/hr)
DI: 2011/65/CE (RoHS)
USDA NSF H1: grease
ASTM B733-04: self-catalytic nickel coating
DI: 94/9/CE (ATEX)

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

Metal Cartridges for Fluids and Gases

3600 One-Piece Cartridge

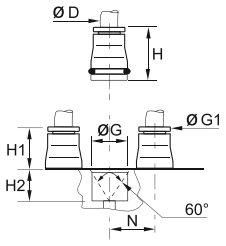
FDA chemical nickel-plated brass, FKM



ØD		G	G1	H	H1	H2	N	kg
4	3600 04 00	9.8	8	17	8.5	8.5	11	0.006
6	3600 06 00	12.1	10	19	10.5	8.5	13.5	0.009
8	3600 08 00	14.8	13	21	12.5	8.5	16	0.012
10	3600 10 00	17.5	15	24.5	14	10.5	20	0.019
12	3600 12 00	20	17	25	14.5	10.5	22.5	0.023
14	3600 14 00	22	20	28.5	16.5	12	25	0.031

3800/3900 One-Piece Cartridge

Stainless steel 316L, FKM

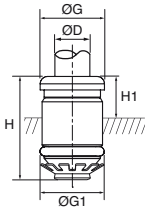


ØD			G	G1	H	H1	H2	N	kg
4	3800 04 00	3900 04 00	9.8	8	17	8.5	8.5	11	0.006
6	3800 06 00	3900 06 00	12.1	10	19	10.5	8.5	13.5	0.008
8	3800 08 00	3900 08 00	14.8	13	21	12.5	8.5	16	0.012
10	3800 10 00	3900 10 00	17.5	15	24.5	14	10.5	20	0.019
12	3800 12 00	3900 12 00	20	17	25	14.5	10.5	22.5	0.023

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

TL Cartridge

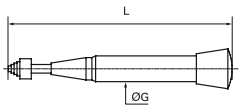
Brass, NBR



ØD	Cavity		G	G1	H	H1	H1*	kg
4	4	FTL4	8	8	14.5	4.5	7.5	0.003
4	6	FTL4-6	8	10	17	4.5	9.5	0.003
6	6	FTL6	10.5	10	17	4.5	9.5	0.004
4	8	FTL8-4	8	12	17.5	5	10.5	0.008
6	8	FTL8-6	10.5	12	18	5.5	11	0.008
8	8	FTL8	13.5	12	19	6.5	12	0.005

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

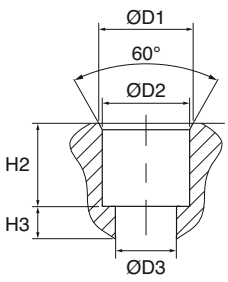
TLT Disconnection Tool



	G	L	kg
TLT	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, "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

Low Temperature Carstick®

Cartridge

Quick Fitting

Fittings

LF 3000®

LIQUIfit®

LF 3000®

Function Fittings

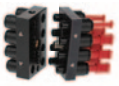
LF 3000®

Non-Return Valve

Flow Control Regulator

Multi-Connectors and Manifolds

Multi-Connector



Multi-Connector

Multi-Connector

Bulkhead Manifold

Bulkhead Manifold

Bulkhead Manifold

Manifold

Tubing and Blowguns

Special Marking

Cut-to-Length

Special Kits

Special Packaging

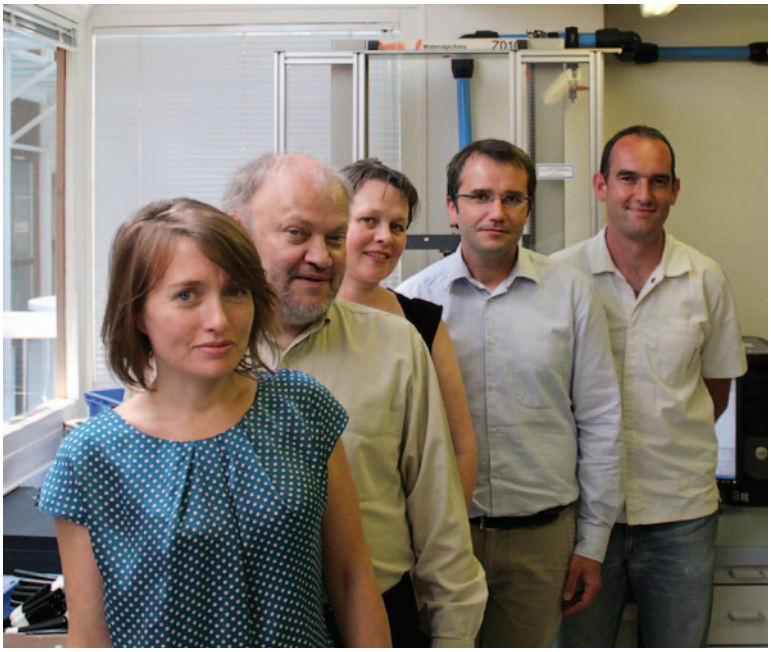
Valves

Valve

Standard Series

Universal Series

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

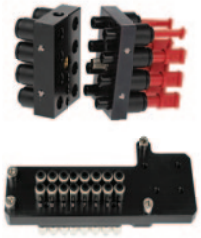
Low cracking threshold

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)

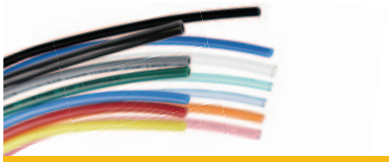
Fluids : compressed air, coolants, industrial fluids

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 Ω.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 Ω.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 fitttings

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)

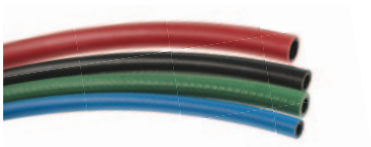
Materials:
– Polyvinyl chloride with braided polyester
– Translucent (food-grade) or blue (industrial)

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

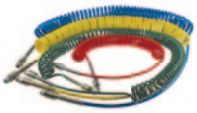
Semi-Rigid PA

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
- **2** = Long Length on 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

- **003** = 300 m
- **005** = 500 m
- **010** = 1000 m

O.D. Code

- 03 = 3 mm
- 04 = 4 mm
- 06 = 6 mm
- 08 = 8 mm
- .../...
- 1/4 = 56 mm
- .../...

- **10** = 10 mm
- **04** = 4 mm
- **06** = 6 mm
- **08** = 8 mm
- **10** = 10 mm
- **04** = 4 mm
- **06** = 6 mm

Colour

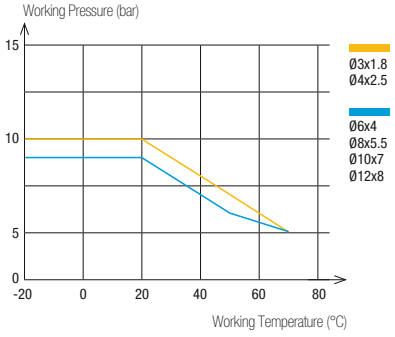
- **00** = clear
- **01** = black
- **02** = green
- **03** = red
- **04** = blue
- **05** = yellow
- **06** = grey
- **07** = orange
- **08** = crystal clear
- **09** = purple
- **10** = white
- **12** = crystal green
- **13** = crystal red
- **14** = crystal blue
- **17** = crystal orange

Special I.D.

- **18** = 1.8 mm
- **27** = 2.7 mm
- **33** = 3.3 mm
- **75** = 7.5 mm
- **95** = 9.5 mm

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

Applictaions

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)

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

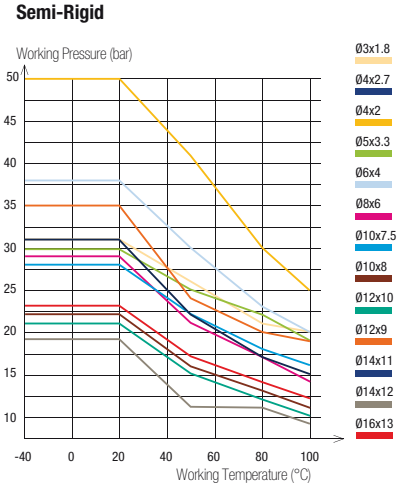
Industrial
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

Transportation
Chemical performance and resistance tested according to DIN 74324 -1 / DIN 73378 / ISO 7628

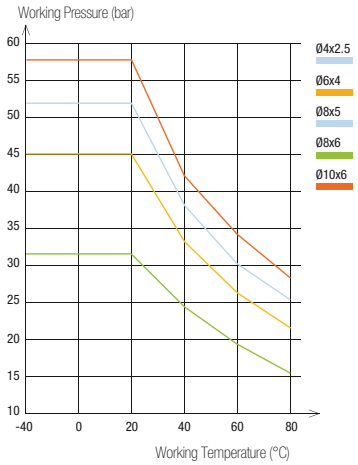
Packaging
Tubepack®: 25 m, 100 m
Drum: 500 m, 1 000 m

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	1025L04 01 25	0.190
6	4	45	1025L06 01	0.400
8	5	70	1025L08 01 05	0.760
8	6	65	1025L08 01	0.760
10	6	85	1025L10 01 06	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

Applictaions

Railway
Air Horns
Industrial Machinery
Pneumatic Doors
Step-Units
Centralised Lubrication
Welding

Technical Characteristics

Compatible Fluids	Compressed air, lubricants Other fluids: please consult us
Working Pressure	Vacuum to 50 bar
Working Temperature	-40°C to +100°C
Component Materials	Polyamide (63 shore D)

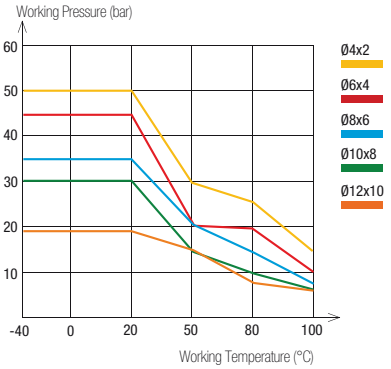
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.
Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Regulations

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)

Performance of Fireproof High Resistance PA Tubing



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

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
Tubepack®: 25 m, 100 m
Drum: 500 m, 1 000 m

1025P..R Fireproof High Resistant Polyamide (PA) — Tubepack® 25 m

O.D. (mm)	I.D. (mm)	R	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)	R	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)	R	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)	R	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

Applictaions

Industrial Machinery
Welding Robots
Cooling
Aggressive Environments

Technical Characteristics

Compatible Fluids	Hot and cold water, refrigerated fluids, compressed air
Working Pressure	0 to 36 bar
Working Temperature	-20°C to +80°C
Component Materials	Polyamide & PVC Sheath

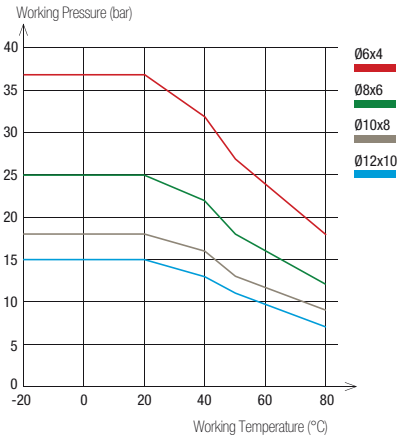
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

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
Tubepack®: 25 m, 100 m

Performance of Anti-Spark PA Tubing with PVC Sheath



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

O.D.	Tube O.D. Tolerance	PVC Sheath Thickness
PVC Sheath 8 to 14 mm	+0.10 / -0.10	1 mm
Inner Tubing 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 (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.

1025P..V Anti-Spark Polyamide (PA) Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)	R					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)	R					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

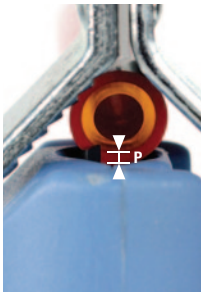
6000 71 00 Stripping Tool for Anti-Spark Tubing

Technical polymer, stainless steel

	kg
6000 71 00	0.098

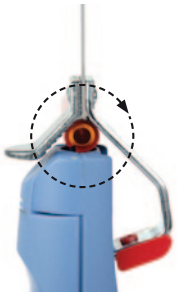
Working Principle

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

Applictaions

Food Process
Robotics
Cabling
Pneumatics
Automation
In-Plant Automotive
Rapid Cycles

Technical Characteristics

Compatible Fluids	Compressed air, industrial fluids (depending on the material type)
Working Pressure	Vacuum to 12 bar
Working Temperature	-20°C to +70°C
Component Materials	Polyurethane ester Polyurethane ether Polyurethane ether food-grade "crystal"

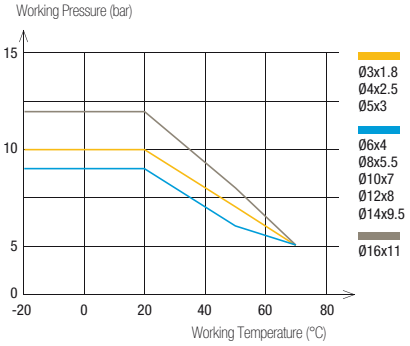
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.
Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Regulations

Industrial
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

Food (PU ether food-grade "crystal")
FDA: 21 CFR 177.2600, 178.3297, 176.170, 178.2010
RG: 1935/2004 EC

Performance of PU Tubing



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

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
Tubepack®: 25 m, 100 m
Drum: 300 m, 500 m, 1 000 m

1025U Polyurethane (PU) Ester Tubing — Tubepack® 25 m

O.D. (mm)	I.D. (mm)	R							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)	R							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)	R							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)	R						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)	R							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)	R			crystal	crystal	crystal	crystal	crystal	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)	R			crystal	crystal	crystal	crystal	crystal	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)	R			crystal	kg
10	7	25	2003U10R01	2003U10R04	2003U10R08	16.600

2005U..R Polyurethane (PU) Ether Tubing

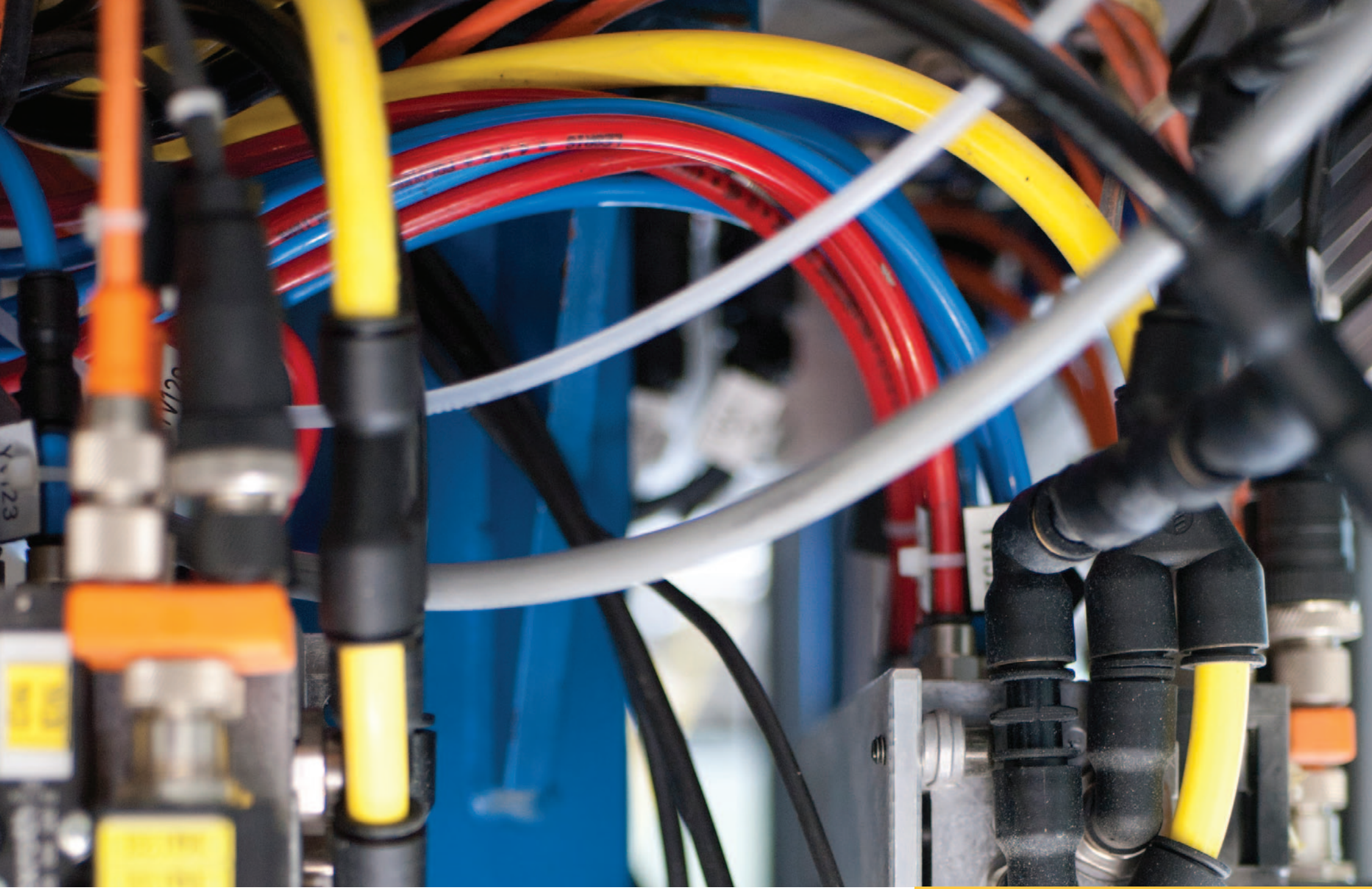
Drum 500 m

O.D. (mm)	I.D. (mm)	R			crystal	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)	R			crystal	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 **10^2 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

Applictaions

Antistatic Packaging
Pneumatics
Electronics
Spray Painting
Electrical Converters

Technical Characteristics

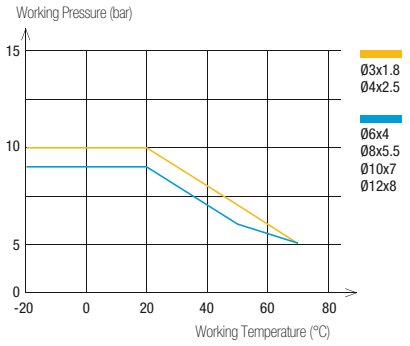
Compatible Fluids	Compressed air, industrial fluids
Working Pressure	Vacuum to 10 bar
Working Temperature	-20°C to +70°C
Component Materials	Polyurethane with conductive additive (50 shore D)

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

DI: 94/9/EC (ATEX*)
DI: 1907/2006 (REACH)
DI: 2002/95/EC (RoHS), 2011/65/EC
*For ATEX areas, please consult us

Performance of Antistatic PU Tubing



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

Tube O.D.	Tube O.D. Tolerance
3 to 8 mm	+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.

Packaging
Tubepack®: 25 m, 100 m

1025U..A Anti-Static Polyurethane (PU) Ester Tubing — Tubepack® 25 m

O.D. (mm)	I.D. (mm)	R		kg
4	2.5	12	1025U04A01	0.310
6	4	15	1025U06A01	0.591
8	5.5	25	1025U08A01	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	1100U03A01	0.836
4	2.5	12	1100U04A01	1.092
6	4	15	1100U06A01	2.064
8	5.5	25	1100U08A01	3.610
10	7	35	1100U10A01	6.105
12	8	45	1100U12A01	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

Applictaions

Industrial Machinery
Compressed Air
Robotics
Mechanical Constraints
Cooling
Welding
Cabling

Technical Characteristics

Compatible Fluids	Industrial fluids, compressed air, coolants
Working Pressure	Vacuum to 14 bar
Working Temperature	-20°C to +70°C
Component Materials	PU ether with PVC sheath PU ether single layer

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).

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

For other fitting ranges, please consult us.

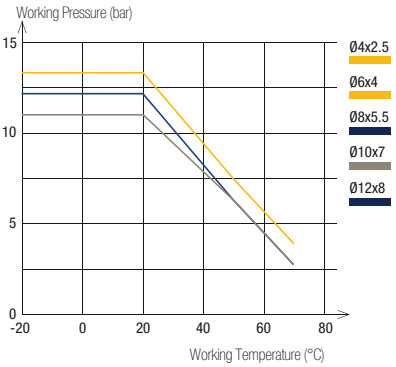
Regulations

UL94 V-0 (Fire resistance)
DI: 2002/95/EC (RoHS), 2011/65/EC
RG: 1907/2006 (REACH)

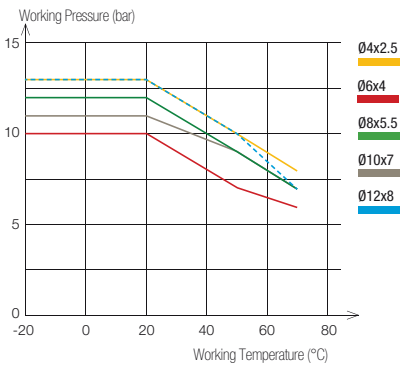
Packaging
Tubepack®: 25 m, 100 m

Tubing Performance

Anti-Spark PU Tubing, with PVC Sheath



Anti-Spark PU Tubing, Single Layer



To calculate burst pressure, the values in these graphs should be multiplied by 3.

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).

1025U..V Anti-Spark Sheath Polyurethane (PU) Ether Tubing — Tubepack® 25 m

O.D. (mm)	I.D. (mm)	R					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)	R					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)	R					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)	R					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
Compatible Fluids	Water, beverages and other fluids	Industrial fluids
Working Pressure	Vacuum to 16 bar	Vacuum to 20 bar
Working Temperature	-40°C to +95°C	-40°C to +60°C
Component Materials	High quality polyethylene: 50% reticulated PE 50% low density PE (44 shore D)	Low Density Polyethylene (44 shore D)

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).

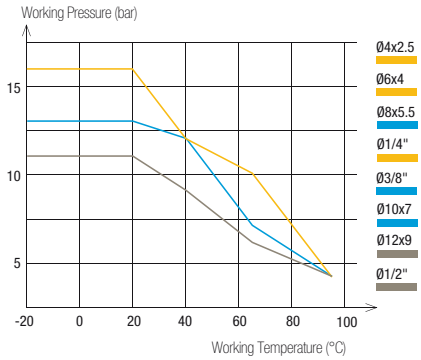
Regulations

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)

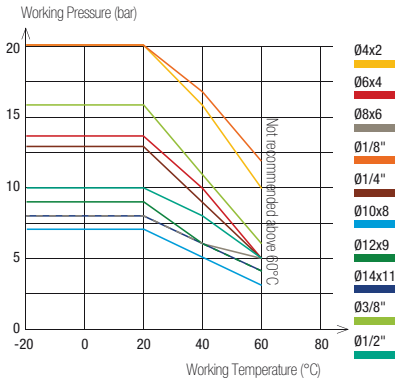
Low Density PE Tubing
FDA: 21 CFR 177.1520
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)

Tubing Performance

Advanced PE Tubing



Low Density PE Tubing



To calculate burst pressure, the values in these graphs should be multiplied by 3.

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

1015Y..F Advanced Polyethylene (APE) Tubing — Drum 150 m

O.D. (mm)	I.D. (mm)	R	Clear						White	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)	R	Clear						White	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)	R	Clear						White	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)	R	Clear						White	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)	R	Clear						White	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)	R	Clear						White	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)	R	Clear	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)	R	Clear	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

Compatible Fluids	Industrial fluids
Working Pressure	0 to 28 bar
Working Temperature	-40°C to +150°C
Component Materials	Fluorinated ethylene propylene (pure)

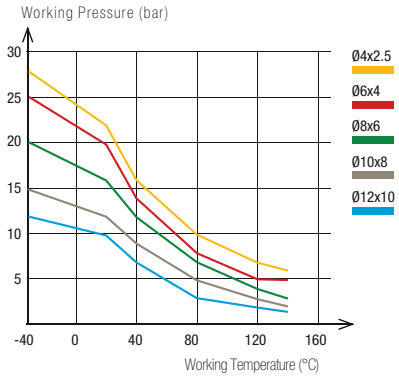
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

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)

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

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.

Packaging
Tubepack®: 5 m, 25 m, 100 m

1005T Fluoropolymer (FEP) Tubing

Tubepack® 5 m

O.D. (mm)	I.D. (mm)	R	Clear	kg
4	2.5	40	1005T04 00 25	0.155
6	4	50	1005T06 00	0.250
8	6	70	1005T08 00	0.385
10	8	120	1005T10 00	0.524
12	10	180	1005T12 00	0.547

1025T Fluoropolymer (FEP) Tubing

Tubepack® 25 m

O.D. (mm)	I.D. (mm)	R	Clear	kg
4	2.5	40	1025T04 00 25	0.506
6	4	50	1025T06 00	1.025
8	6	70	1025T08 00	1.431
10	8	120	1025T10 00	1.693
12	10	180	1025T12 00	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.

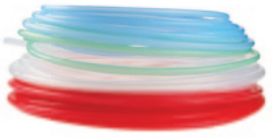
Product Advantages

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



Applications

Food-Process
Fuel Cells
Electrical/Electronics
Aircraft
Oil/Gas Industry
Pharmaceutical
Medical
Chemical
Clean Rooms

Technical Characteristics

Compatible Fluids	Medical, bio-compatible, food process, gas, compressed air
Working Pressure	Vacuum to 36 bar
Working Temperature	-196°C to +260°C
Component Materials	Perfluoroalkoxy • High Purity PFA • Translucent coloured PFA • Antistatic PFA

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

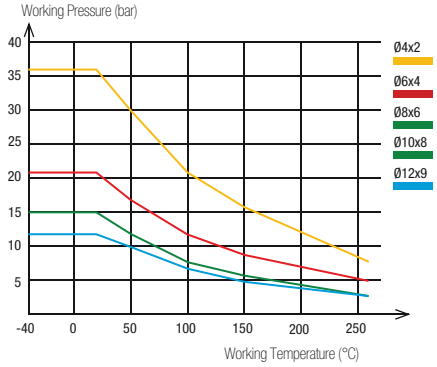
Regulations

Medical
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



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

Tube O.D.	Tube O.D. Tolerance
4 to 8 mm	+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 E49-100.

Packaging
Tubepack®: 10 m, 50 m, 100 m

1010T..P Fluoropolymer (PFA) Tubing — Tubepack® 10 m

O.D. (mm)	I.D. (mm)	R	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)	R	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)	R	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)	R		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)	R		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
Compatible Fluids	Compressed air, chemicals, industrial fluids	Compressed air, industrial fluids
Working Pressure	Vacuum to 24 bar	0 to 14 bar
Working Temperature	-40°C to +80°C	-20°C to +70°C
Component Materials	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

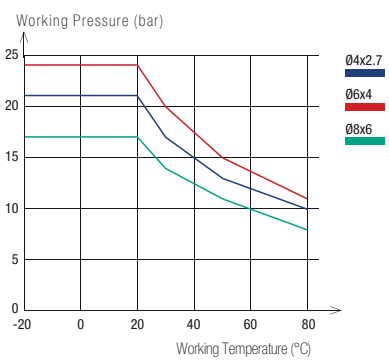
Packaging

Sheathed PA Tubing:
Tubepack® 10 m, 50 m

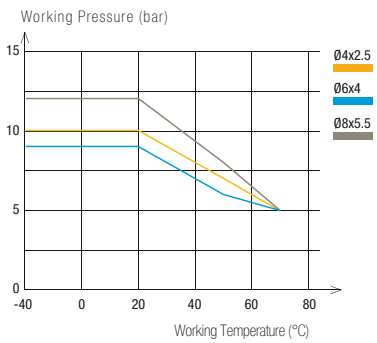
Twin PU Ester Tubing:
Tubepack® 25 m

Tubing Performance

Sheathed PA Tubing



Twin PU Ester Tubing



To calculate burst pressure, the values in these graphs should be multiplied by 3.

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).

1010P.. M Semi-Rigid Polyamide (PA) Multi-Tubing — Reel 10 m

O.D. (mm)	I.D. (mm)	R	Number of tubes		kg
4	2.7	35	4	1010P04 00M04	1.440
4	2.7	45	7	1010P04 00M07	1.920
6	4	55	4	1010P06 00M04	2.300
6	4	60	7	1010P06 00M07	2.900
8	6	45	2	1010P08 00M02	2.600

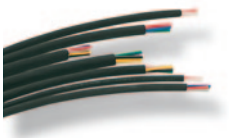
1050P.. M Semi-Rigid Polyamide (PA) Multi-Tubing — Reel 50 m

O.D. (mm)	I.D. (mm)	R	Number of tubes		kg
4	2.7	20	2	1050P04 00M02	4.400
4	2.7	35	4	1050P04 00M04	6.600
4	2.7	45	7	1050P04 00M07	8.200
4	2.7	55	12	1050P04 00M12	12.444
6	4	45	2	1050P06 00M02	8.400
6	4	55	4	1050P06 00M04	14.500
6	4	60	7	1050P06 00M07	12.500
8	6	45	2	1050P08 00M02	13.000

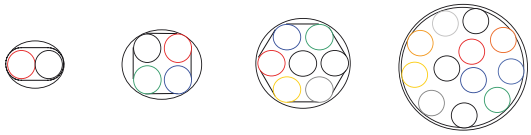
1420U Twin Polyurethane (PU) Tubing — Tubepack® 25 m

O.D. tube (mm)	I.D. tube (mm)	R				kg
4	2.5	12	1420U04 11	1420U04 44	1420U04 41	0.620
6	4	15	1420U06 11	1420U06 44	1420U06 41	1.182
8	5.5	20	1420U08 11	1420U08 44	1420U08 41	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

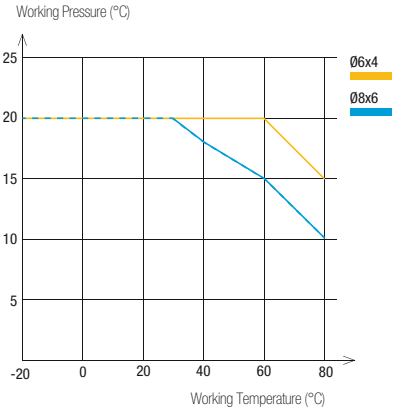
Compatible Fluids	Compressed air, lubricants, Other fluids: please consult us
Working Pressure	Vacuum to 20 bar
Working Temperature	-20°C to +80°C
Component Materials	Polyamide (68 Shore D)

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

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

Performance of PA Recoil Tubing



To calculate burst pressure, the values in these graphs should be multiplied by 3.

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

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	1470P06 04 13	1470P06 07 13	520	60	0.143
8	6		1470P08 04 13	1470P08 07 13	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	1471P06 04 13	1471P06 07 13	640	60	0.199
8	6		1471P08 04 13	1471P08 07 13	720	70	0.249

Length of long straight section: 300 mm
Length of short straight section: 100 mm

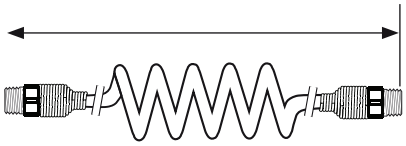
1472P Polyamide (PA) Recoil Tubing 6 m, Male BSPT Fitting

O.D. (mm)	I.D. (mm)	BSPT Thread			Total Closed Length (mm)	O.D. of Coil (mm)	kg
6	4	R1/4	1472P06 04 13	1472P06 07 13	760	60	0.260
8	6		1472P08 04 13	1472P08 07 13	880	70	0.329

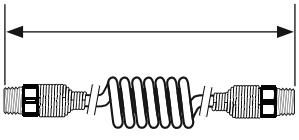
Length of long straight section: 300 mm
Length of short straight section: 100 mm

Dimensions for Recoil Tubing

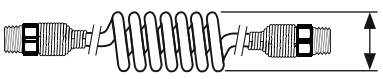
Service length: maximum recommended operating length in order to ensure that the coil will continue to contract after multiple uses.



Service Length (mm)



Total Closed Length (mm)



O.D. of Coil (mm)

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.

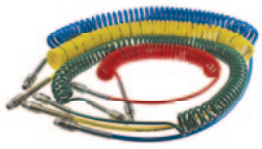
Product Advantages

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

Compatible Fluids	Compressed air
Working Pressure	0 to 10 bar
Working Temperature	-20°C to +70°C (assembled tubing)
Component Materials	Polyurethane (52 Shore D)

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

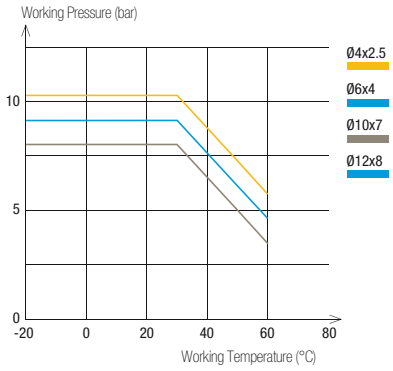
Regulations

Industrial
NF E49-101
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

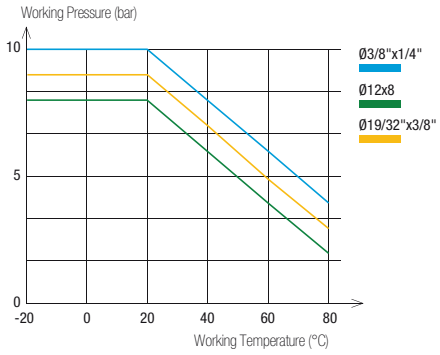
Packaging
Plastic bags: from 2 m to 7.5 m

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	1470U04 03 10	1470U04 04 10	1470U04 05 10	595	24	0.060
6	4	R1/4	1470U06 03 13	1470U06 04 13	1470U06 05 13	630	32	0.060
8	5	R1/4	1470U08 03 13	1470U08 04 13	1470U08 05 13	780	42	0.120
10	7	R1/4	1470U10 03 13	1470U10 04 13	1470U10 05 13	780	62	0.160
12	8	R3/8	1470U12 03 17	1470U12 04 17	1470U12 05 17	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	1471U04 03 10	1471U04 04 10	1471U04 05 10	785	24	0.100
6	4	R1/4	1471U06 03 13	1471U06 04 13	1471U06 05 13	850	32	0.160
8	5	R1/4	1471U08 03 13	1471U08 04 13	1471U08 05 13	1000	42	0.200
10	7	R1/4	1471U10 03 13	1471U10 04 13	1471U10 05 13	1000	62	0.230
12	8	R3/8	1471U12 03 17	1471U12 04 17	1471U12 05 17	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	1472U08 03 13	1472U08 04 13	1472U08 05 13	1230	42	0.280
10	7	R1/4	1472U10 03 13	1472U10 04 13	1472U10 05 13	1140	62	0.295
12	8	R3/8	1472U12 03 17	1472U12 04 17	1472U12 05 17	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	1460U08 04	780	42	0.064
10	7	1460U10 04	780	62	0.122
12	8	1460U12 04	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	1461U08 04	1000	42	0.128
10	7	1461U10 04	1000	62	0.244
12	8	1461U12 04	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	1462U08 04	1230	42	0.192
10	7	1462U10 04	1140	62	1.246
12	8	1462U12 04	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	1445U08R04 13	819	40	0.170
3/8"	1/4"	G1/4	1445U60R04 13	769	60	0.230
12	8	G3/8	1445U12R04 17	789	80	0.310
14	9.5	G3/8	1445U14R04 17	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	1441U08R04 13	889	40	0.220
3/8"	1/4"	G1/4	1441U60R04 13	819	60	0.260
12	8	G3/8	1441U12R04 17	849	80	0.400
14	9.5	G3/8	1441U14R04 17	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	1442U08R04 13	1029	40	0.340
3/8"	1/4"	G1/4	1442U60R04 13	929	60	0.360
12	8	G3/8	1442U12R04 17	969	80	0.530
14	9.5	G3/8	1442U14R04 17	909	110	0.920

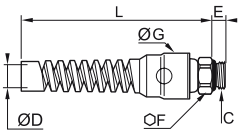
1447U..R Recoil Polyurethane (PU) Ether Tubing 7.5 m, Male BSPP Fitting

O.D. (mm))	I.D. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	1447U08R04 13	1134	40	0.420
3/8"	1/4"	G1/4	1447U60R04 13	1009	60	0.460
12	8	G3/8	1447U12R04 17	1059	80	0.600
14	9.5	G3/8	1447U14R04 17	984	110	1.150

Accessories

0694 Push-In Fitting with Protection Spring, Male BSPP Thread

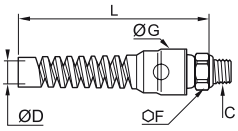
Nickel-plated brass, NBR



ØD	C		E	F	G	L	kg
8	G1/4	0694 08 13	6.5	16	24	104.5	0.067
10	G1/4	0694 10 13	6.5	18	24	106.5	0.062
12	G3/8	0694 12 17	7.5	20	29.5	126	0.080

0695 Push-In Fitting with Protection Spring, Male BSPT Thread

Nickel-plated brass, NBR



ØD	C		F	G	L	kg
8	R1/4	0695 08 13	14	24	104.5	0.055
10	R1/4	0695 10 13	18	24	106.5	0.064
12	R3/8	0695 12 17	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

Applications

Machine Tools
Industrial Assembly
Pneumatics
In-Plant Automotive
Workshops

Technical Characteristics

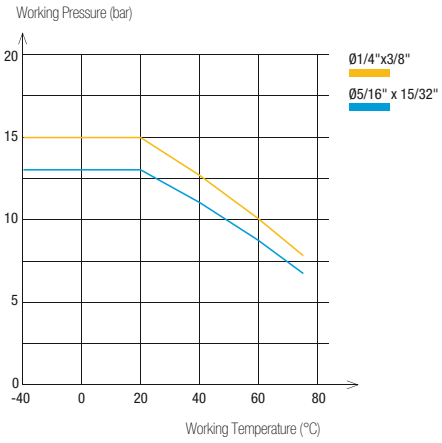
Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	0 to 15 bar
Working Temperature	-40°C to +75°C
Component Materials	Polyurethane (85 shore A)

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

Regulations

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

Performance of Braided PU Recoil Hose



To calculate burst pressure, the values in this graph should be multiplied by 4.

Hose O.D.	Hose I.D.	Hose I.D. Tolerance
3/8" 15/32"	1/4" 5/16"	+/- 0.005"

Connected to Parker Legris push-in fittings, the calibration of PU tubing ensures perfect sealing.

Packaging
Plastic bags : 3 m to 7.5 m

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	1445U60E04 13	870	42	0.210
12	8	G3/8	1445U12E04 17	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	1442U60E04 13	1140	42	0.420
12	8	G3/8	1442U12E04 17	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	1447U60E04 13	1275	42	0.525
12	8	G3/8	1447U12E04 17	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 phtalates
- 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
Compatible Fluids	Compressed air, other fluids	Compressed air
Working Pressure	0 to 15 bar	0 to 15 bar
Working Temperature	-20°C to +70°C	-25°C to +60°C
Component Materials	Translucent food-grade PVC, phtalate-free with polyester braid	Industrial blue PVC, multi-layer, with polyester braid

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

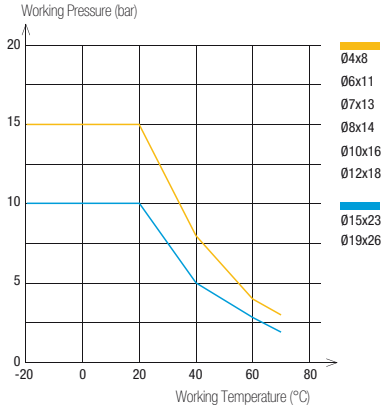
Regulations

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 (phtalates)

Industrial PVC
DI: 97/23/CE (PED)
RG: 1907/2006 (REACH)
DI: 2002/95/EC (RoHS), 2011/65/EC

Hose Performance

Food-Grade PVC



To calculate burst pressure, the values in these graphs should be multiplied by 3.

Hose Type	Hose I.D.	Hose I.D. Tolerance
Food-Grade PVC	4 to 6 mm 7 to 12 mm 15 to 19 mm	+0.5 / -0.5 +0.6 / -0.6 +0.8 / -0.8
Industrial PVC	6.3 mm 9 mm 12.7 mm	+0.3 / -0.3 +0.5 / -0.5 +0.6 / -0.6

Packaging
Reel: 25 m, 50 m
(with protective plastic bag)

1025V Food-Grade Braided PVC Hose — Reel 25 m

O.D. (mm)	I.D. (mm)	R	Clear	kg
8	4	10	1025V08 00 04	1.260
11	6	12	1025V11 00 06	2.253
13	7	14	1025V13 00 07	3.182
14	8	16	1025V14 00 08	3.434
16	10	25	1025V16 00 10	3.800
18	12	30	1025V18 00 12	4.423
23	15	40	1025V23 00 15	7.300
26	19	60	1025V26 00 19	7.300

1050V Food-Grade Braided PVC Hose — Reel 50 m

O.D. (mm)	I.D. (mm)	R	Clear	kg
8	4	10	1050V08 00 04	2.690
11	6	12	1050V11 00 06	4.200
13	7	14	1050V13 00 07	5.966
14	8	16	1050V14 00 08	6.058
16	10	25	1050V16 00 10	6.400
18	12	30	1050V18 00 12	8.250
23	15	40	1050V23 00 15	14.600
26	19	60	1050V26 00 19	14.600

1025V..C Industrial-Grade Braided PVC Hose — Reel 25 m

O.D. (mm)	I.D. (mm)	R		kg
11	6	45	1025V11C04 06	2.175
14	9	63	1025V14C04 09	3.250
19	13	89	1025V19C04 13	4.975

1050V..C Industrial-Grade Braided PVC Hose — Reel 50 m

O.D. (mm)	I.D. (mm)	R		kg
11	6	45	1050V11C04 06	4.350
14	9	63	1050V14C04 09	6.500
19	13	89	1050V19C04 13	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

Applications
In-Plant Automotive
Cooling
Welding Robots
Pneumatics
Industrial Machinery

Technical Characteristics

Compatible Fluids	Coolants, compressed air
Working Pressure	0 to 16 bar
Working Temperature	-20°C to +100°C
Component Materials	Nitrile butadiene rubber & textile braid

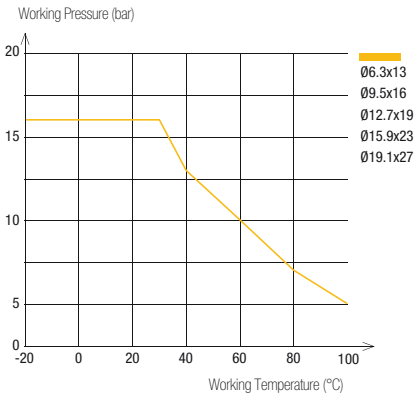
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

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.

Performance of Self-Fastening NBR Hose



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

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 16 20	1/2 5/8 3/4	12.7 mm 15.9 mm 19.1 mm	+0.6 / -0.6

Use with water: maximum temperature 100°C
Use with air: maximum temperature 70°C

Packaging
Drum: 20 m, 40 m, 80 m, 100 m

1040H Braided Self-Fastening NBR Hose — Drum 40 m

DN	O.D. (mm)	I.D. (mm)	R					kg
1/4	13	6.3	60	1040H56 01	1040H56 02	1040H56 03	1040H56 04	7.000
3/8	16	9.5	70	1040H60 01	1040H60 02	1040H60 03	1040H60 04	8.600
1/2	19	12.7	120	1040H62 01	1040H62 02	1040H62 03	1040H62 04	9.450
5/8	23	15.9	140	1040H66 01	1040H66 02	1040H66 03	1040H66 04	13.000
3/4	27	19.1	170	1040H69 01	1040H69 02	1040H69 03	1040H69 04	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)	R					kg
5/8	23	15.9	140	1080H66 01	1080H66 02	1080H66 03	1080H66 04	26.160
3/4	27	19.1	170	1080H69 01	1080H69 02	1080H69 03	1080H69 04	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)	R					kg
1/4	13	6.3	60	1100H56 01	1100H56 02	1100H56 03	1100H56 04	14.660
3/8	16	9.5	70	1100H60 01	1100H60 02	1100H60 03	1100H60 04	20.600
1/2	19	12.7	120	1100H62 01	1100H62 02	1100H62 03	1100H62 04	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

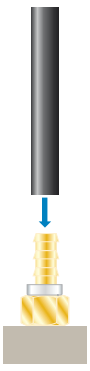
Installation Tool

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.



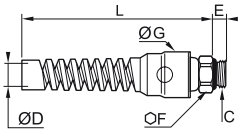
Press-Fitting the Tube

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.

Accessories

0694 Push-In Fitting with Protection Spring, Male BSPP Thread

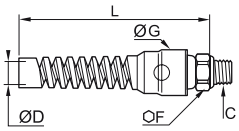
Nickel-plated brass, NBR



ØD	C		E	F	G	L	kg
8	G1/4	0694 08 13	6.5	16	24	104.5	0.067
10	G1/4	0694 10 13	6.5	18	24	106.5	0.062
12	G3/8	0694 12 17	7.5	20	29.5	126	0.080

0695 Push-In Fitting with Protection Spring, Male BSPT Thread

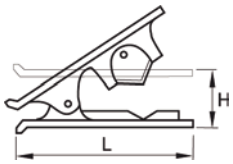
Nickel-plated brass, NBR



ØD	C		F	G	L	kg
8	R1/4	0695 08 13	14	24	104.5	0.055
10	R1/4	0695 10 13	18	24	106.5	0.064
12	R3/8	0695 12 17	20	29.5	126	0.090

3000 71 00 Tube Cutter

Technical polymer



	H	L	kg
3000 71 00	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

	kg
3000 71 11	0.227

6000 71 00 Stripping Tool for Anti-Spark Tubing

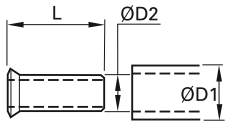
Technical polymer, stainless steel

	kg
6000 71 00	0.098

Working principle of the stripping tool page 3-17

1827 Stainless Steel Tube Support for Fluoropolymer Tubing

Stainless steel 316L

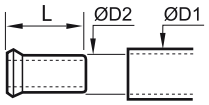


ØD1	ØD2		L	kg
6	4	1827 06 00	11.5	0.001
8	6	1827 08 00	14	0.001
10	8	1827 10 00	18	0.001
12	9	1827 12 09	18	0.001
	10	1827 12 00	18	0.001
16	14	1827 16 00	18	0.002

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

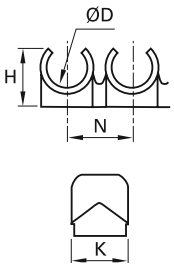


ØD1	ØD2		L	kg
4	2	0127 04 00	11	0.001
	2.7	0127 04 27	11	0.001
5	3	0127 05 03	11	0.001
	3.3	0127 05 00	11.5	0.009
6	4	0127 06 00	11.5	0.001
8	5.5	0127 08 55	14	0.001
	6	0127 08 00	14	0.001
10	7	0127 10 07	18	0.001
	7.5	0127 10 75	18	0.001
	8	0127 10 00	18	0.002
12	8	0127 12 08	18	0.002
	9	0127 12 09	18	0.002
	10	0127 12 00	18	0.001
14	11	0127 14 11	18	0.002
	12	0127 14 00	18	0.002
15	12	0127 15 12	18	0.002
16	13	0127 16 13	18	0.003
18	14	0127 18 14	19.5	0.003
20	15	0127 20 15	20.5	0.003
22	16	0127 22 16	21	0.004
25	19	0127 25 19	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

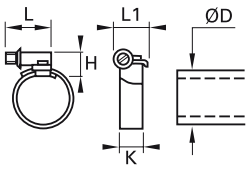


ØD		H	K	N	kg
4	CLIP 04 00	9	13.5	10.5	0.007
6	CLIP 06 00	10.5	13	10.5	0.004
8	CLIP 08 00	12.5	10.5	12	0.007
10	CLIP 10 00	14	12	15	0.005
12	CLIP 12 00	16.5	14	16.5	0.009
14	CLIP 14 00	18	16	20.5	0.008

Delivered in boxes of 10 strips of the same diameter (complete with self-tapping screws of 95 mm length)
These clips can be used with metric or inch tubing.

0697 Clip for Braided Tubing

Treated steel



ØD		H	K	L	L1	kg
6-11	0697 00 01	7	5	12	7	0.004
10-16	0697 00 02	12	9	21	13	0.011
12-22	0697 00 03	12	9	21	13	0.015
16-27	0697 00 04	12	9	24	13	0.015
20-32	0697 00 05	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
Ammonioum 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_2O)	-	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

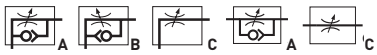
Threads: BSPP, metric, NPT

Selecting Your Function Fitting

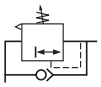
Protect Your System	**Blocking Fittings**	Maintain the load following an emergency stop of a pneumatic system.	Models **7880 - 7881 - 7883 - 7885 7886**
	Soft Start Fittings	Increase the pressure gradually in order to protect it from potentially damaging shock when a pneumatic system is restarted.	Models **7860 - 7861 - 7870 - 7871**
	Non-Return Valves	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 **4890 - 4891 - 4892 - 4895 7930 - 7931 - 7932 - 7984 7985 - 7992 - 7994 -7995 7996**
	Piloted Non-Return Valves	Incorporate 3 functions into one product to protect your system: piloted non-return valve, flow control regulator and manual vent.	Models **7892 - 7894**
Detect End of Cylinder Rod Stroke	**Pneumatic Sensor Fittings**	Detect the back pressure drop at the end of stroke to produce a signal (pneumatic or electronic) to allow reciprocation.	Models **7818 - 7828**
Control and Improve the Performance of Your System	**Pressure Regulators**	Regulate and stabilise the pressure at a maximum determined value whatever the upstream pressure.	Models **7300**
	Pressure Reducer Fittings	Reduce the pressure consumed in one section of the machine in order to save energy.	Models **7316 - 7318 - 7416 - 7471**
	Quick Exhaust Valves	Increase the return speed of the cylinder by discharging the exhaust directly to atmosphere.	Models **7899 - 7970 - 7971**
	Silencers	Reduce the noise levels whilst air is vented from a compressed air system.	Models **0670 - 0671 - 0672 - 0673 0674 - 0675 - 0676 - 0677**
Working on Your System	**Snap Fittings**	Allow a circuit to be isolated without fully venting the system.	Models **7921 - 7926 - 7960 - 7961**
	Manually-Operated Valves	Allow for repeated venting by simply moving the valve sleeve or the manually-operated valve lever.	Models **0669 - 7800 - 7801 - 7802**

Symbols for Function Fittings

Regulating
air flow



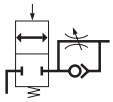
Regulating
pressure by stabilising at a required value



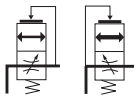
Blocking
air circulation

Reducing
pressure supply

Blocking
and **regulating** air flow



Progressive
pressurising of circuits



Controlling
allows the passage of fluid in one direction
and prevents it in the other

Isolating a circuit
without venting the entire system

Exhausting system
and **controlling** pneumatic
circuit supply

Regulating, blocking and **venting**
to protect the system and individuals

Detecting
pressure drop

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

1. Condition of Use

- **Standard** applications → **Technical polymer** models
- **Severe** applications → **Metal** models

2. Connection Options

- On **cylinder** or **threaded control valve** → Models with BSPP, BSPT and metric **threads**; Models with NPT **threads** on request
- On **cylinder** or **control valve with push-in connection** → **Plug-in** models

3. Dimensions

- **Standard applications** require full flow rate performance and compact overall dimensions → **Compact** models
- **Small diameter cylinders** require precise and accurate adjustment and minimum size → **Miniature** models

4. Type of Adjustment

- **Precise** adjustment with locking nut ensuring the setting remains **fixed** → Models with **external adjustment**
- **Precise** adjustment with **screwdriver** and **protection** against unwanted adjustment → Models with **recessed adjustment**

5. Installation Configuration

- Standard **applications** → **Banjo** models
- **Tube output** that can be positioned through 180° and swivels with the tube movement → Models with **swivel outlet**
- **Cylinder where access is difficult** or where another function fitting is installed in the cylinder port → **In-line** models

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

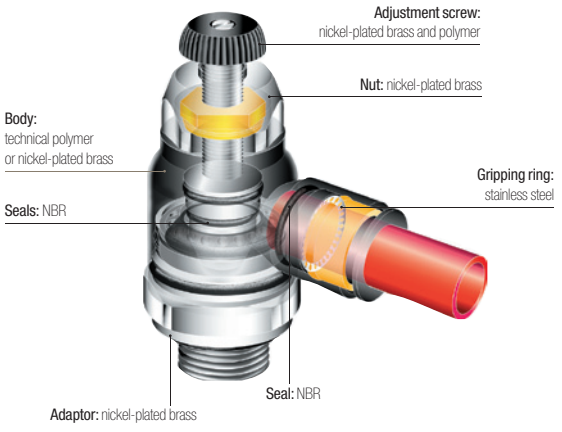
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: contact us
Working Pressure	1 to 10 bar
Working Temperature	0°C to +70°C

Max. Tightening Torques (external adjustment screw)	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
Max. Tightening Torques (recessed adjustment screw)	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

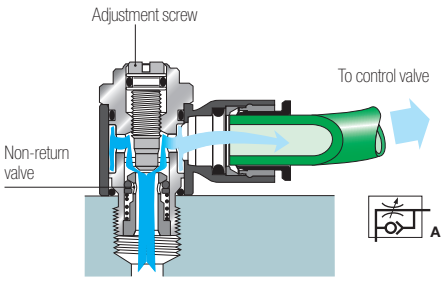
Flow Control Regulators

Operation

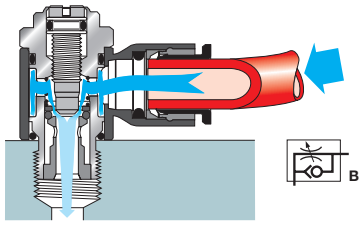
Parker Legris offers both uni-directional and bi-directional flow control regulators.
The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction.
The bi-directional models control the flow of air in both directions.
A more precise and constant flow regulation is obtained when the regulator is fitted directly onto the cylinder.

Models with Recessed Adjustment

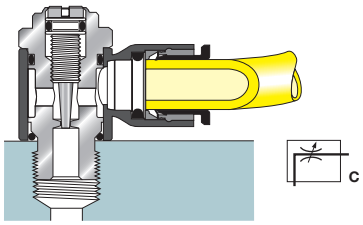
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

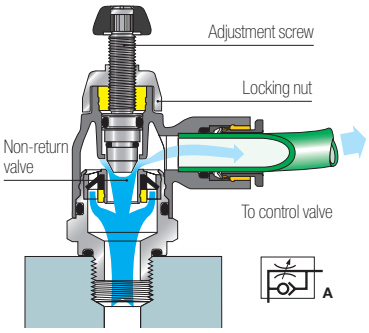


Bi-Directional Version

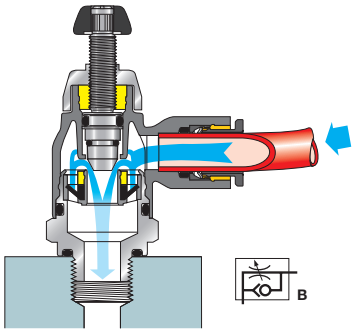


Models with External Adjustment

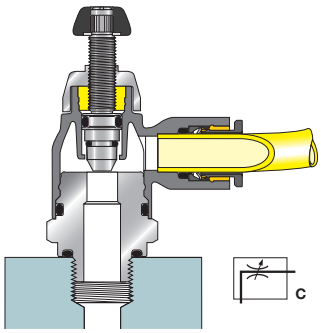
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

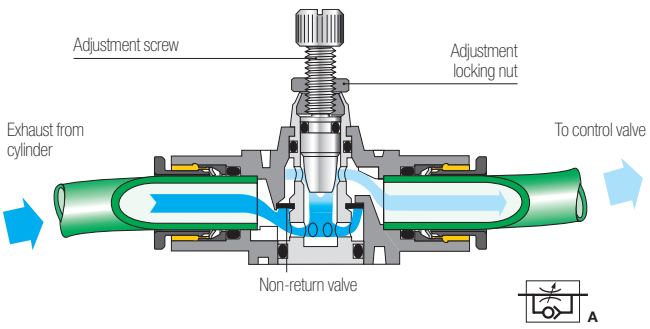


Bi-Directional Version

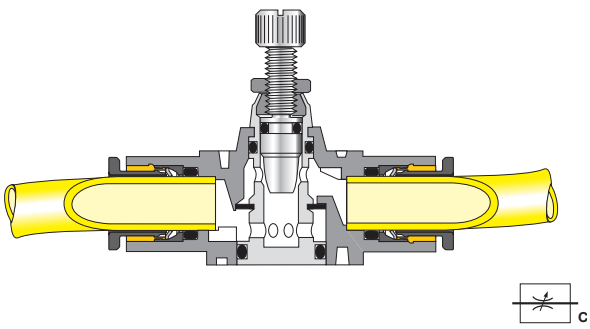


In-Line Models

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:

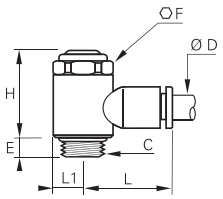
- uni-directional regulation on exhaust: letter A
- uni-directional regulation on supply: letter B
- bi-directional regulation: letter C

Regulators with Recessed Adjustment

7010 Flow Regulator with Recessed Adjustment Screw Exhaust, Male BSPP and Metric Thread

A

Technical polymer, nickel-plated brass, NBR

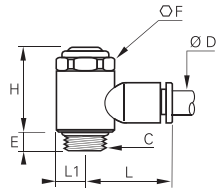


ØD	C		E	F	H	L	L1	kg
4	M5x0.8	7010 04 19	4	8	17.5	17	5	0.006
	G1/8	7010 04 10	5	13	25	19	7	0.018
6	M5x0.8	7010 06 19	4	8	17.5	19	5	0.006
	G1/8	7010 06 10	5	13	25	21	7	0.018
	G1/4	7010 06 13	8	17	26.5	22	9.5	0.034
8	G1/8	7010 08 10	5	13	25	26	7	0.019
	G1/4	7010 08 13	8	17	26.5	27	9.5	0.035
	G3/8	7010 08 17	7.5	20	37.5	29	11	0.068
10	G1/4	7010 10 13	8	17	26.5	29	9.5	0.035
	G3/8	7010 10 17	7.5	20	37.5	31	11	0.067
	G1/2	7010 10 21	8	23	43	37	13.5	0.118
12	G3/8	7010 12 17	7.5	20	37.5	34.5	11	0.069
	G1/2	7010 12 21	8	23	43	37	13.5	0.108

7011 Flow Regulator with Recessed Adjustment Screw Supply, Male BSPP and Metric Thread

B

Technical polymer, nickel-plated brass, NBR

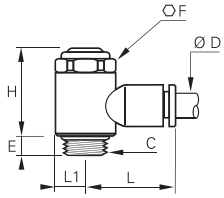


ØD	C		E	F	H	L	L1	kg
4	M5x0.8	7011 04 19	4	8	17.5	17	5	0.006
	G1/8	7011 04 10	5	13	25	19	7	0.018
6	M5x0.8	7011 06 19	4	8	17.5	19	5	0.006
	G1/8	7011 06 10	5	13	25	21	7	0.018
	G1/4	7011 06 13	8	17	26.5	22	9.5	0.034
8	G1/8	7011 08 10	5	13	25	26	7	0.019
	G1/4	7011 08 13	8	17	26.5	27	9.5	0.034
	G3/8	7011 08 17	7.5	20	37.5	29	11	0.067
10	G1/4	7011 10 13	8	17	26.5	29	9.5	0.036
	G3/8	7011 10 17	7.5	20	37.5	31	11	0.068

7012 Bi-Directional Flow Regulator with Recessed Adjustment Screw, Male BSPP and Metric Thread

C

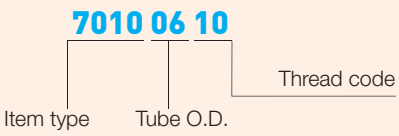
Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	H	L	L1	kg
4	M5x0.8	7012 04 19	4	8	17.5	17	5	0.006
	G1/8	7012 04 10	5	13	25	19	7	0.018
6	M5x0.8	7012 06 19	4	8	17.5	19	5	0.007
	G1/8	7012 06 10	5	13	25	21	7	0.019
	G1/4	7012 06 13	8	17	26.5	22	9.5	0.036
8	G1/8	7012 08 10	5	13	25	26	7	0.020
	G1/4	7012 08 13	8	17	26.5	27	9.5	0.036
	G3/8	7012 08 17	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 2nd tube outside diameter

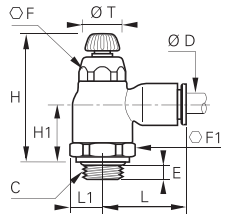


Compact Regulators with External Adjustment

7060 Compact Flow Regulator Exhaust, Male BSPP Thread

A

Technical polymer, nickel-plated brass, NBR

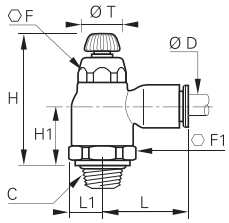


ØD	C		E	F	F1	H	H max	H1	L	L1	ØT	kg
4	G1/8	7060 04 10	5	10	16	38	44	16	22	9	10	0.020
6	G1/8	7060 06 10	5	10	16	38	44	16	22	9	10	0.020
	G1/4	7060 06 13	5.5	10	16	36.5	42.5	15	22	9	10	0.020
8	G1/8	7060 08 10	4.5	14	19	41.5	48	18	28	10.5	14	0.033
	G1/4	7060 08 13	5.5	14	19	41.5	48	18.5	28	10.5	14	0.034
	G3/8	7060 08 17	5.5	14	19	41.5	48	17	28	11	14	0.034
10	G1/4	7060 10 13	5.5	17	23	45.5	53.5	20	31.5	12.5	17	0.053
	G3/8	7060 10 17	5.5	17	23	45.5	54	20	31.5	12.5	17	0.054
12	G3/8	7060 12 17	5.5	17	23	45.5	54	20	35	12.5	17	0.060
	G1/2	7060 12 21	7.5	17	24	45.5	54	20	35	13	17	0.058

7065 Compact Flow Regulator Exhaust, Male BSPT Thread

A

Technical polymer, nickel-plated brass, NBR



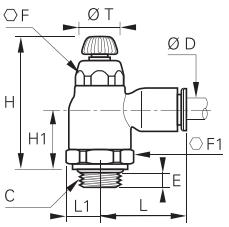
ØD	C		F	F1	H min	H max	H1	L	L1	ØT	kg
6	R1/8	7065 06 10	10	16	36.5	42.5	15	22	8	10	0.021
8	R1/8	7065 08 10	14	19	40	45	16.5	28	10.5	14	0.034
	R1/4	7065 08 13	14	19	40	45	16.5	28	10.5	14	0.036
10	R1/4	7065 10 13	17	23	43.5	51.5	18	31.5	12.5	17	0.053
	R3/8	7065 10 17	17	23	43.5	51.5	18	31.5	12.5	17	0.055
	R1/2	7065 10 21	17	23	43.5	51.5	18	31.5	12.5	17	0.059
12	R1/4	7065 12 13	17	23	43.5	51.5	18	35	12.5	17	0.056
	R3/8	7065 12 17	17	23	43.5	51.5	18	35	12.5	17	0.059
	R1/2	7065 12 21	17	23	43.5	51.5	18	35	12.5	17	0.064

Pre-coated thread

7061 Compact Flow Regulator Supply, Male BSPP Thread

B

Technical polymer, nickel-plated brass, NBR

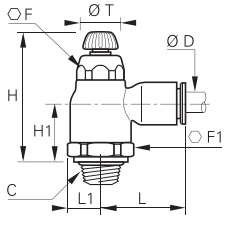


ØD	C		E	F	F1	H	H max	H1	L	L1	ØT	kg
4	G1/8	7061 04 10	5	10	16	38	44	16	22	9	10	0.020
6	G1/8	7061 06 10	5	10	16	38	44	16	22	9	10	0.020
	G1/4	7061 06 13	5.5	10	16	36.5	42.5	15	22	9	10	0.021
8	G1/8	7061 08 10	4.5	14	19	41.5	48	18	28	10.5	14	0.033
	G1/4	7061 08 13	5.5	14	19	41.5	48	18.5	28	10.5	14	0.034
	G3/8	7061 08 17	5.5	14	23	41.5	48	17	28	11	14	0.033
10	G1/4	7061 10 13	5.5	17	23	45.5	53.5	20	31.5	12.5	17	0.053
	G3/8	7061 10 17	5.5	17	23	45.5	54	20	31.5	12.5	17	0.054
12	G1/2	7061 12 21	7.5	17	24	45.5	54	20	35	13	17	0.060

7066 Compact Flow Regulator Supply, Male BSPT Thread

B

Technical polymer, nickel-plated brass, NBR



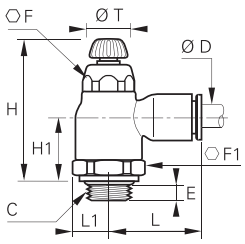
ØD	C		F	F1	H min	H max	H1	L	L1	ØT	kg
10	R1/4	7066 10 13	17	23	43.5	51.5	18	31.5	12.5	17	0.020
	R3/8	7066 10 17	17	23	43.5	51.5	18	31.5	12.5	17	0.020
	R1/2	7066 10 21	17	23	43.5	51.5	18	31.5	12.5	17	0.059
12	R1/4	7066 12 13	17	23	43.5	51.5	18	35	12.5	17	0.056
	R3/8	7066 12 17	17	23	43.5	51.5	18	35	12.5	17	0.059
	R1/2	7066 12 21	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

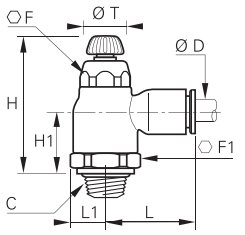
Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	F1	H	H max	H1	L	L1	ØT	kg
4	G1/8	7062 04 10	5	10	16	38	44	16	22	9	10	0.025
6	G1/8	7062 06 10	5	10	16	38	44	16	22	9	10	0.025
	G1/4	7062 06 13	5.5	10	16	36.5	42.5	15	22	9	10	0.025
8	G1/8	7062 08 10	4.5	14	19	41.5	48	18	28	10.5	14	0.043
	G1/4	7062 08 13	5.5	14	19	41.5	48	18.5	28	10.5	14	0.046
	G3/8	7062 08 17	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



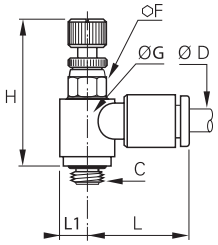
ØD	C		F	F1	H min	H max	H1	L	L1	ØT	kg
4	R1/8	7067 04 10	10	16	36.5	42.5	14.7	22	9	10	0.025
6	R1/8	7067 06 10	10	16	36.5	42.5	14.7	22	9	10	0.010
	R1/4	7067 06 13	10	16	36.5	42.5	14.7	22	9	10	0.014
8	R1/8	7067 08 10	14	19	40	45	16.5	28	10.5	14	0.034
	R1/4	7067 08 13	14	19	40	45	16.5	28	10.5	14	0.036
	R3/8	7067 08 17	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

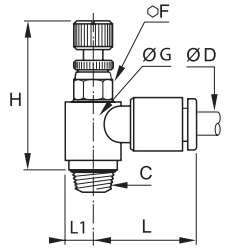
Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
3	M3x0.5	7660 03 09	6	9	23.5	26	17	4.5	0.007
	M5x0.8	7660 03 19	6	9	23.5	26	17	4.5	0.006
4	M3x0.5	7660 04 09	6	9	23.5	26	16.5	4.5	0.007
	M5x0.8	7660 04 19	6	9	23.5	26	17	4.5	0.006
	G1/8	7660 04 10	7	11.5	27	29.5	18	6	0.012
6	M5x0.8	7660 06 19	6	9	23.5	26	18	4.5	0.007
	G1/8	7660 06 10	7	11.5	27	29.5	18.5	6	0.012
	G1/4	7660 06 13	8	12	30	32.5	19	6	0.019
8	G1/8	7660 08 10	13	14	26.5	31	26	7	0.021
	G1/4	7660 08 13	16	19	29	34	27.5	9.5	0.033
	G3/8	7660 08 17	20	23	36	42	29	11.5	0.062

7665 Miniature Flow Regulator Exhaust, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

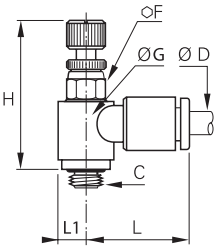


ØD	C		F	G	H min	H max	L	L1	kg
4	R1/8	7665 04 10	7	11.5	25	27.5	18	6	0.012
6	R1/8	7665 06 10	7	11.5	25	27.5	18.5	6	0.012
	R1/4	7665 06 13	8	13.5	27.5	30	19	7	0.019
	R3/8	7665 06 17	17	13.5	31.5	34	19	7	0.025
8	R1/8	7665 08 10	13	14	24	28.5	26	7	0.021
	R1/4	7665 08 13	16	19	25	29	27.5	9.5	0.033
	R3/8	7665 08 17	20	23	30	36	29	11.5	0.061

Pre-coated thread

7669 Miniature Flow Regulator Supply, Male BSPP and Metric Thread

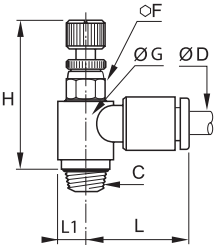
Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
3	M3x0.5	7669 03 09	6	9	23.5	26	17	4.5	0.008
	M5x0.8	7669 03 19	6	9	23.5	26	17	4.5	0.007
4	M5x0.8	7669 04 19	6	9	23.5	26	17	4.5	0.006
	G1/8	7669 04 10	7	11.5	27	29.5	18	6	0.012
6	M5x0.8	7669 06 19	6	9	23.5	26	18	4.5	0.007
	G1/8	7669 06 10	7	11.5	27	29.5	18.5	6	0.013
	G1/4	7669 06 13	8	12	30	32.5	19	6	0.019
8	G1/8	7669 08 10	13	14	26.5	31	26	7	0.021
	G1/4	7669 08 13	16	19	29	34	27.5	9.5	0.033
	G3/8	7669 08 17	20	23	36	42	29	11.5	0.063

7668 Miniature Flow Regulator Supply, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR



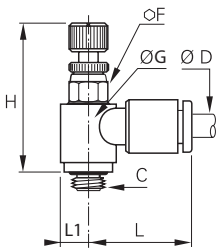
ØD	C		F	G	H min	H max	L	L1	kg
4	R1/8	7668 04 10	7	11.5	25	27.5	18	6	0.011
6	R1/8	7668 06 10	7	11.5	25	27.5	18.5	6	0.012
	R1/4	7668 06 13	8	13.5	27.5	30	19	7	0.019
8	R1/8	7668 08 10	13	14	24	28.5	26	7	0.020
	R1/4	7668 08 13	16	19	25	29	27.5	9.5	0.032
	R3/8	7668 08 17	20	23	30	36	29	11.5	0.061

Pre-coated thread

Regulators with External Adjustment

7662 Bi-Directional Miniature Flow Regulator, Male BSPP and Metric Thread

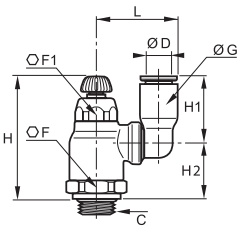
Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
4	M5x0.8	7662 04 19	6	9	23.5	26	17	4.5	0.007
	G1/8	7662 04 10	7	11.5	27	29.5	18	6	0.013
6	M5x0.8	7662 06 19	6	9	23.5	26	18	4.5	0.010
	G1/8	7662 06 10	7	11.5	27	29.5	18.5	6	0.013
	G1/4	7662 06 13	8	12	30	32.5	19	6	0.019

7040 Compact Flow Regulator Swivel Outlet Exhaust, Male BSPP Thread

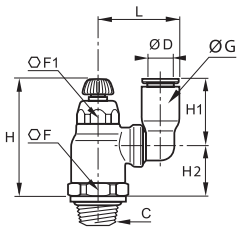
Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	G	H min	H max	H1	H2	L	kg
6	G1/8	7040 06 10	16	10	10.5	38	44	16	18	23.5	0.024
	G1/4	7040 06 13	16	10	10.5	36.5	42.5	16	16.5	23.5	0.025
8	G1/8	7040 08 10	19	14	13.5	41.5	48	23	19	28	0.037
	G1/4	7040 08 13	19	14	13.5	41.5	48	23	19.5	28	0.039
	G3/8	7040 08 17	19	14	13.5	41.5	48	23	17.5	28	0.020
10	G1/4	7040 10 13	23	17	16	45.5	53.5	26.5	21	35	0.051
	G3/8	7040 10 17	23	17	16	45.5	54	26.5	21.5	35	0.063
12	G3/8	7040 12 17	23	17	19	45.5	54	30.5	21.5	38	0.066
	G1/2	7040 12 21	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

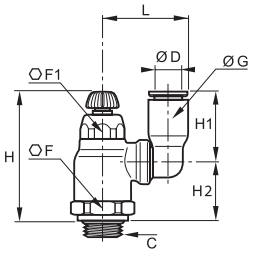


ØD	C		F	F1	G	H min	H max	H1	H2	L	kg
6	R1/4	7045 06 13	16	10	10.5	36.5	42.5	16	16.5	23.5	0.030
8	R1/8	7045 08 10	19	14	13.5	40	46	23	17	28	0.014
	R1/4	7045 08 13	19	14	13.5	40	46	23	17	28	0.043
	R3/8	7045 08 17	19	14	13.5	40	46	23	17	28	0.044
10	R1/4	7045 10 13	23	17	16	43.5	51.5	26.5	19	35	0.062
	R3/8	7045 10 17	23	17	16	43.5	51.5	26.5	19	35	0.065
12	R3/8	7045 12 17	23	17	19	43.5	51.5	31	19	38	0.065
	R1/2	7045 12 21	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

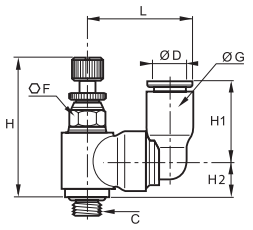


ØD	C		F	F1	G	H min	H max	H1	H2	L	kg
6	G1/4	7041 06 13	16	10	10.5	36.5	42.5	16	16.5	23.5	0.024
8	G1/8	7041 08 10	19	14	13.5	41.5	48	23	19	28	0.037
	G1/4	7041 08 13	19	14	13.5	41.5	48	23	19.5	28	0.039

Miniature Regulators with Swivel Outlet and External Adjustment

7640 Miniature Swivel Outlet Flow Regulator Exhaust, Male BSPP and Metric Thread

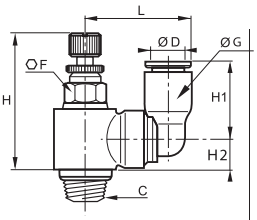
Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	H1	H2	L	kg
4	M5x0.8	7640 04 19	6	8.5	23.5	26	14	6.5	19.5	0.011
	G1/8	7640 04 10	7	8.5	27	29.5	14	8	19.5	0.015
6	M5x0.8	7640 06 19	6	10.5	23.5	26	16	6.5	21	0.001
	G1/8	7640 06 10	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

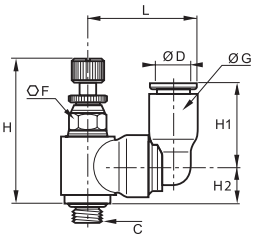


ØD	C		F	G	H min	H max	H1	H2	J	L	kg
4	R1/8	7645 04 10	7	8.5	25	27.5	14	6	11.5	19.5	0.014
6	R1/8	7645 06 10	7	10.5	25	27.5	16	6	11.5	21.5	0.012

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 min	H max	H1	H2	L	kg
4	M5x0.8	7649 04 19	6	8.5	23.5	26	14	6.5	19	0.015
	G1/8	7649 04 10	7	8.5	27	29.5	14	8.5	19.5	0.014
6	M5x0.8	7649 06 19	6	10.5	23.5	26	16	6.5	21	0.008
	G1/8	7649 06 10	7	10.5	27	29.5	16	8.5	21.5	0.015

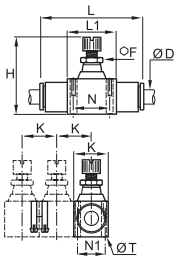
Associated Products

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

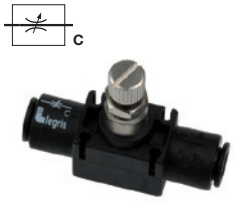
7770 In-Line One-Way Flow Regulator

Technical polymer, NBR

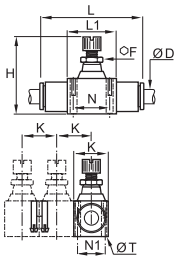


ØD		F	H min	H max	K	L	L1	N	N1	ØT	kg
4	7770 04 00	5	29.5	33.5	12	36	15	11	8	2.2	0.010
6	7770 06 00	8	40.5	44.5	17	51	23	17	11	3.2	0.028
8	7770 08 00	11	46.5	52.5	18.5	58	26	20	12.5	3.2	0.048
10	7770 10 00	14	53	61	24	73	33	26	16	4.2	0.097
12	7770 12 00	14	59	67.5	28	85	35	27.5	20	4.2	0.132

7772 Bi-Directional In-Line Flow Regulator



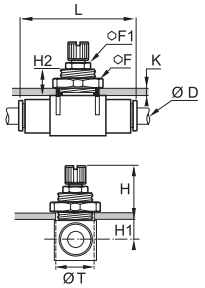
Technical polymer, NBR



ØD		F	H min	H max	K	L	L1	N	N1	ØT	kg
4	7772 04 00	5	29.5	33.5	12	36	15	11	8	2.2	0.011
6	7772 06 00	8	40	44.5	17	51	23	17	11	3.2	0.032
8	7772 08 00	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

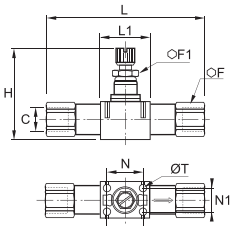


ØD		F	F1	H	H max	H1	H2	K	L	ØT	kg
4	7776 04 00*	14	-	21.5	25.5	6.5	11	6	36	10.5	0.017
6	7776 06 00*	19	-	27.5	32.5	7.5	13.5	7	51	16.5	0.042
8	7776 08 00	24	11	28.5	34.5	9	13.5	7	58	18.5	0.069
10	7776 10 00	30	14	29.5	38.5	11.5	13.5	7	73	24.5	0.136
12	7776 12 00	32	14	32	42	12.5	15.5	8	85	27.5	0.185

*Ultrafine adjustment

7771 In-Line One-Way Flow Regulator, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR



C		F	F1	H min	H max	L	L1	N	N1	ØT	kg
G1/8	7771 10 10	13	8	39.5	44.5	68.5	23	17	11	3.2	0.043
G1/4	7771 13 13	16	11	44	50	83	26	20	12.5	3.2	0.103
G3/8	7771 17 17	19	14	52	61	97	33	26	16	4.2	0.160
G1/2	7771 21 21	24	14	57.5	67.5	121	35	27.5	20	4.2	0.260

7000 Joining Clips

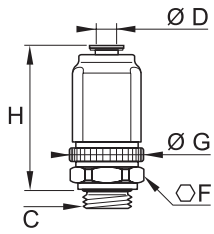
Technical polymer

ØD		kg
4	7000 00 05	0,004
6	7000 00 05	0,004
8	7000 00 05	0,004
10	7000 00 06	0,009
12	7000 00 06	0,009

In-Line Regulators with External Adjustment

7020 Straight Flow Regulator Exhaust, Male BSPP Thread

Technical polymer, nickel-plated brass, NBR

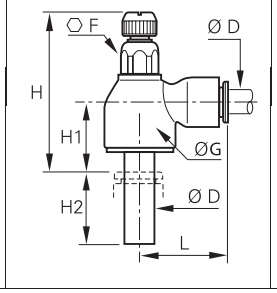


ØD	C		F	G	H min	H max	kg
4	G1/8	7020 04 10	18	21.5	38.5	44	0.062
6	G1/8	7020 06 10	18	21.5	38.5	44	0.058
	G1/4	7020 06 13	18	21.5	38.5	44	0.059
8	G1/8	7020 08 10	24	27	46.5	52.5	0.110
	G1/4	7020 08 13	24	27	46.5	52.5	0.112

Plug-In Regulators with External Adjustment

7030 Compact Plug-In Flow Regulator, Exhaust

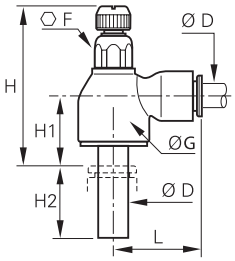
Technical polymer, nickel-plated brass, NBR



ØD		F	G	H min	H max	H1	H2	L	kg
6	7030 06 00	10	16	35	41	14	17	22	0.013
8	7030 08 00	14	19	39.5	46.5	16	21.5	28	0.022
10	7030 10 00	17	23	43.5	51.5	17.5	24.5	31.5	0.030
12	7030 12 00	17	23	43	51	17	27	35	0.044

7031 Compact Plug-In Flow Regulator, Supply

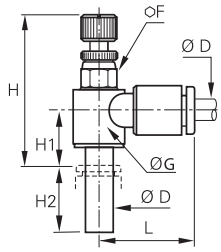
Technical polymer, nickel-plated brass, NBR



ØD		F	G	H min	H max	H1	H2	L	kg
6	7031 06 00	10	16	35	41	14	17	22	0.013
8	7031 08 00	14	19	39.5	46.5	16	21.5	28	0.035
10	7031 10 00	17	23	43.5	51.5	17.5	24.5	31.5	0.010
12	7031 12 00	17	23	43	51	17	27	35	0.044

7630 Miniature Plug-In Flow Regulator, Exhaust

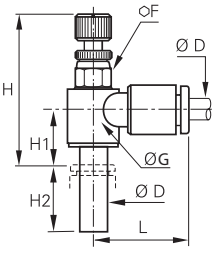
Technical polymer, nickel-plated brass, NBR



ØD		F	G	H min	H max	H1	H2	L	kg
4	7630 04 00	6	9	25.5	28	9.5	15.5	17	0.007
6	7630 06 00	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

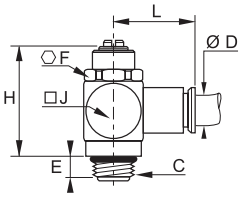


ØD		F	G	H min	H max	H1	H2	L	kg
4	7631 04 00	6	9	25.5	28	9.5	15.5	17	0.007
6	7631 06 00	7	11.5	27.5	29	10.5	17	18.5	0.011

Metal Regulators with Recessed Adjustment

7130 Flow Regulator, Exhaust, Male BSPP and Metric Thread

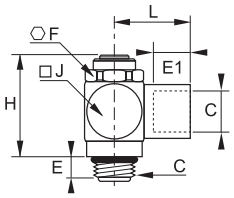
Nickel-plated brass, NBR



ØD	C		E	F	H	J	L	kg
4	M5x0.8	7130 04 19	4	8	17	9	19	0.015
	G1/8	7130 04 10	5	13	34	15	20	0.037
6	M5x0.8	7130 06 19	4	8	17	9	24	0.013
	G1/8	7130 06 10	5	13	34	15	22	0.038
	G1/4	7130 06 13	8	17	39	18	24	0.062
8	G1/8	7130 08 10	5	13	34	15	25	0.042
	G1/4	7130 08 13	8	17	39	18	28	0.066
	G3/8	7130 08 17	7	20	47	21.5	29	0.109
10	G1/4	7130 10 13	8	17	39	18	30	0.075
	G3/8	7130 10 17	7	20	47	21.5	32	0.120
	G1/2	7130 10 21	8	23	61	28	34	0.222
12	G3/8	7130 12 17	7	20	47	22	36	0.064
	G1/2	7130 12 21	8	23	61	28	38	0.306

7140 Flow Regulator, Exhaust, Male/Female BSPP and Metric Thread

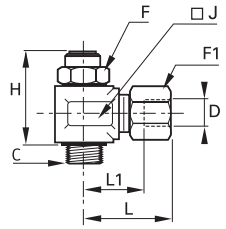
Nickel-plated brass, NBR



C		E	E1	F	H	J	L	kg
M5x0.8	7140 19 19	4	4	8	21	9	11	0.009
G1/8	7140 10 10	5	8	13	32	15	17	0.040
G1/4	7140 13 13	8	12	17	39	18	24	0.073
G3/8	7140 17 17	7	12	20	47	21.5	27	0.125
G1/2	7140 21 21	8	15	23	61	28	31	0.238

7160 Flow Regulator with Brass Compression Fitting, Exhaust, Male BSPP Thread

Nickel-plated brass, NBR



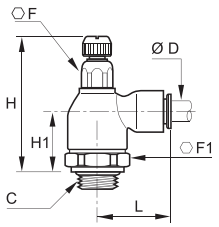
ØD	C		F	F1	H	J	L	L1	kg
4	G1/8	7160 04 10	13	10	26	17	25.5	14.5	0.049
6	G1/8	7160 06 10	13	13	26	17	25.5	14.5	0.054
	G1/4	7160 06 13	17	13	31.5	22	28.5	17.5	0.103
8	G1/8	7160 08 10	13	14	26	17	29.5	15.5	0.055
	G1/4	7160 08 13	17	14	31.5	22	31	17	0.103
10	G1/4	7160 10 13	17	19	31.5	22	35	19	0.118
	G3/8	7160 10 17	20	19	44.5	22	37.5	19	0.188
	G1/2	7160 10 21	23	19	50	27	37.5	19	0.202
12	G3/8	7160 12 17	20	22	44.5	22	38	21.5	0.200
	G1/2	7160 12 21	23	22	50	27	38	21.5	0.213

Metal Regulators with External Adjustment

7100 Compact Flow Regulator, Exhaust, Male BSPP Thread

A

Nickel-plated brass, NBR

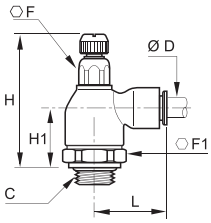


ØD	C		F	F1	H min	H max	H1	L	kg
4	G1/8	7100 04 10	10	19	47	53	23	21	0.078
6	G1/8	7100 06 10	10	19	47	53	23	24.5	0.080
	G1/4	7100 06 13	10	19	47.5	53	23.5	24.5	0.083
8	G1/8	7100 08 10	14	19	50	55	24.5	29	0.097
	G1/4	7100 08 13	14	19	50	56	25	29	0.100
	G3/8	7100 08 17	17	25	56	62	27	30.5	0.154
10	G1/4	7100 10 13	14	19	50	56	25	35	0.103
	G3/8	7100 10 17	17	25	56	62	27	35	0.157
12	G3/8	7100 12 17	17	25	56	62	27	38	0.198
	G1/2	7100 12 21	17	25	55	62	27	38	0.207
14	G1/2	7100 14 21	17	25	55	62	27	41	0.205

7101 Compact Flow Regulator, Supply, Male BSPP Thread

B

Nickel-plated brass, NBR

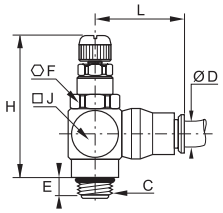


ØD	C		F	F1	H min	H max	H1	L	kg
4	G1/8	7101 04 10	10	19	47	53	23	21	0.096
6	G1/8	7101 06 10	10	19	47	53	23	24.5	0.080
	G1/4	7101 06 13	10	19	47.5	53	23.5	24.5	0.080
8	G1/8	7101 08 10	14	19	50	55	24.5	29	0.097
	G1/4	7101 08 13	14	19	50	56	25	29	0.100
	G3/8	7101 08 17	17	25	56	62	27	30.5	0.155

7680 Compact Flow Regulator, Male BSPP Thread

A

Nickel-plated brass, NBR

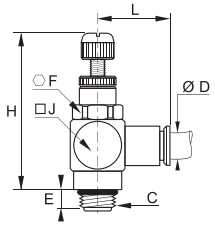


ØD	C		E	F	H min	H max	J	L	kg
6	G1/8	7680 06 10	5	13	39	44	7.5	24.5	0.045
8	G1/8	7680 08 10	5	13	39	44	7.5	24.5	0.047
	G1/4	7680 08 13	8	17	41	47	9	27	0.076
10	G3/8	7680 10 17	7	20	50	60	11	34	0.133
12	G1/2	7680 12 21	8	23	65	77	14	36.5	0.165

7180 Miniature Flow Regulator Exhaust, Male BSPP and Metric Thread

A

Nickel-plated brass, NBR

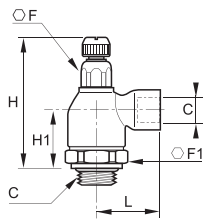


ØD	C		E	F	H min	H max	J	L	kg
4	M5x0.8	7180 04 19	4	8	24	29	10	19	0.012
	G1/8	7180 04 10	5	13	39	44	15	20	0.042
6	M5x0.8	7180 06 19	4	8	24	29	10	24	0.015
	G1/8	7180 06 10	5	13	39	44	15	22	0.043
8	G1/8	7180 08 10	5	13	39	44	15	26	0.049

7110 Compact Flow Regulator Exhaust, Male/Female BSPP Thread

A

Nickel-plated brass, NBR



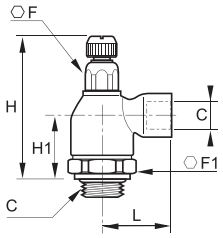
C		F	F1	H min	H max	H1	L	kg
G1/8	7110 10 10	10	19	47	52.5	23	22.5	0.079
G1/4	7110 13 13	14	19	50.5	55.5	25	32	0.108
G3/8	7110 17 17	17	25	56	62	27	34.5	0.212
G1/2	7110 21 21	17	25	55	62	27	37.5	0.192

Metal Regulators with External Adjustment

7111 Compact Flow Regulator Supply, Male/Female BSPP Thread

B

Nickel-plated brass, NBR

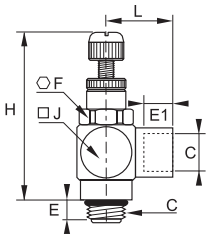


C		F	F1	H min	H max	H1	L	kg
G1/8	7111 10 10	10	19	47	52.5	23	22.5	0.079
G1/4	7111 13 13	14	19	50.5	55.5	25	32	0.107

7190 Miniature Flow Regulator Exhaust, Male/Female BSPP and Metric Thread

A

Nickel-plated brass, NBR

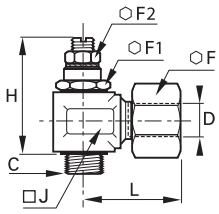


C		E	E1	F	H min	H max	J	L	kg
M5x0.8	7190 19 19	4	4	8	24	29	10	11	0.012
G1/8	7190 10 10	5	8	13	39	44	15	17	0.044

7762 Flow Regulator Exhaust, with Brass Compression Fitting, Male BSPP Thread

A

Brass, NBR



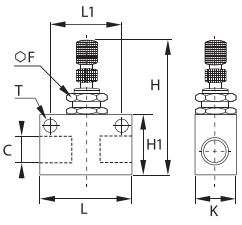
ØD	C		F	F1	F2	H min	H max	J	L	kg
8	G1/8	7762 08 10*	14	14	7	35.5	38.5	17	28.5	0.056
10	G1/4	7762 10 13	19	17	10	44	49	22	36.5	0.129
14	G3/8	7762 14 17	24	22	13	58	65	27	37.5	0.219
18	G1/2	7762 18 21	30	27	19	62.5	68.5	34	44	0.403

*with adjustment knurl

7170 Panel-Mountable In-Line Flow Regulator, Female BSPP and Metric Thread

A

Treated aluminium, NBR



C		F	H min	H max	H1	K	L	L1	ØT	kg
M5x0.8	7170 19 19	12	38	42	15	12	25	18	4.5	0.022
G1/8	7170 10 10	15	49	56	22	18	35	24.7	4.5	0.056
G1/4	7170 13 13	15	57	64	30	20	46	35	6.5	0.086
G3/8	7170 17 17	22	62	73	30	25	50	35	6.5	0.155
G1/2	7170 21 21	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

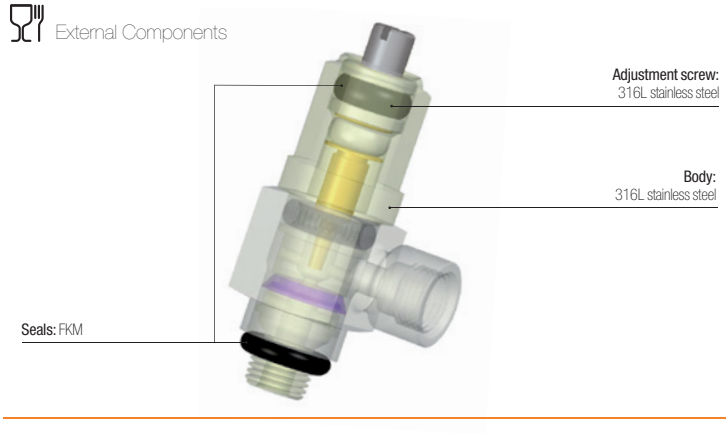
Applications
- Food Process
- Robotics
- Textile
- Semi-Conductors
- Packaging
- Pneumatics
- Automotive Process

Technical Characteristics

Compatible Fluids	Compressed air **7822**: all compatible fluids depending on whether FKM or PTFE seals are used
Working Pressure	**7810-7812:** 1 to 10 bar **7820:** 1 to 16 bar **7822:** 1 to 40 bar
Working Temperature	**7810 – 7812:** 0°C to +70°C **7820 – 7822:** -15° to +120°C

Component Materials

External Components

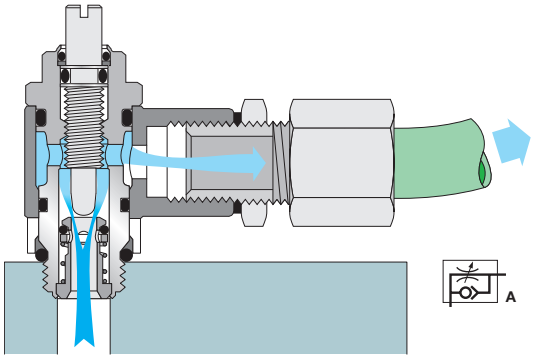


Regulations

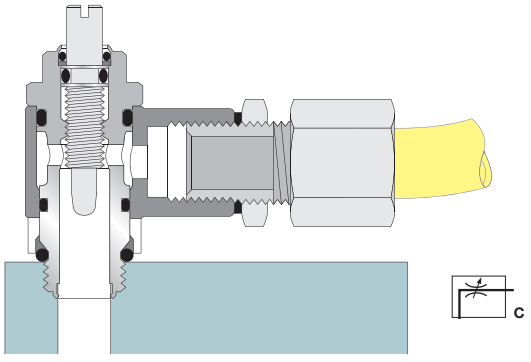
DI: 2002/95/EC (RoHS)
RG: 1907/2006 (REACH)
DI: 97/23/EC (PED)
RG: External Components: 21CFR (FDA)
RG: External Components: 1935/2004/EC

Operation

Exhaust Model with External Adjustment



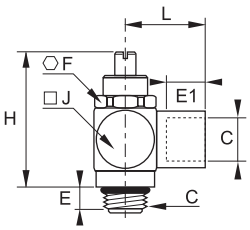
Bi-Directional Model with External Adjustment



Stainless Steel Flow Control Regulators

7810 Flow Regulator Exhaust, Male/Female BSPP and Metric Thread

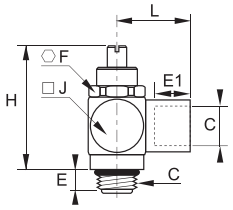
Stainless steel 316L, FKM



C		E	E1	F	H min	H max	J	L	kg
M5x0.8	7810 19 19	4	4	8	22	26	9	11	0.011
G1/8	7810 10 10	6	8	13	32	38	15	17	0.039
G1/4	7810 13 13	9	12	17	35	40	18	24	0.072
G3/8	7810 17 17	8	12	20	43	53	22	27	0.125
G1/2	7810 21 21	9	15	23	60	71	28	31	0.261

7812 Bi-Directional Flow Regulator, Male/Female BSPP and Metric Thread

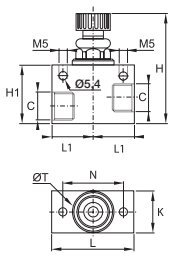
Stainless steel 316L, FKM



C		E	E1	F	H min	H max	J	L	kg
M5x0.8	7812 19 19	4	4	8	22	26	9	11	0.290
G1/8	7812 10 10	6	8	13	32	38	15	17	0.040
G1/4	7812 13 13	9	12	17	35	40	18	24	0.074
G3/8	7812 17 17	8	12	20	43	53	22	24	0.125
G1/2	7812 21 21	9	15	23	60	71	28	31	0.261

7820 In-Line One-Way Flow Regulator, Female BSPP Thread

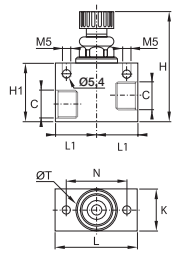
Stainless steel 316L, FKM



C	DN		H min	H max	H1	K	L	L1	N	ØT	kg
G1/8	7	7820 00 10	47	52.5	30	20	40	20	30	20	0.175
G1/4	7	7820 00 13	47	52.5	30	20	40	20	30	20	0.164
G3/8	9	7820 00 17	56	65	35	25	50	25	36	25	0.298
G1/2	12	7820 00 21	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	7822 00 10	48	52.5	30	20	40	20	30	20	0.176
G1/4	7	7822 00 13	48	52.5	30	20	40	20	30	20	0.165
G3/8	9	7822 00 17	58	65	35	25	50	25	36	20	0.296
G1/2	12	7822 00 21	76	87	40	30	60	30	42	30	0.270

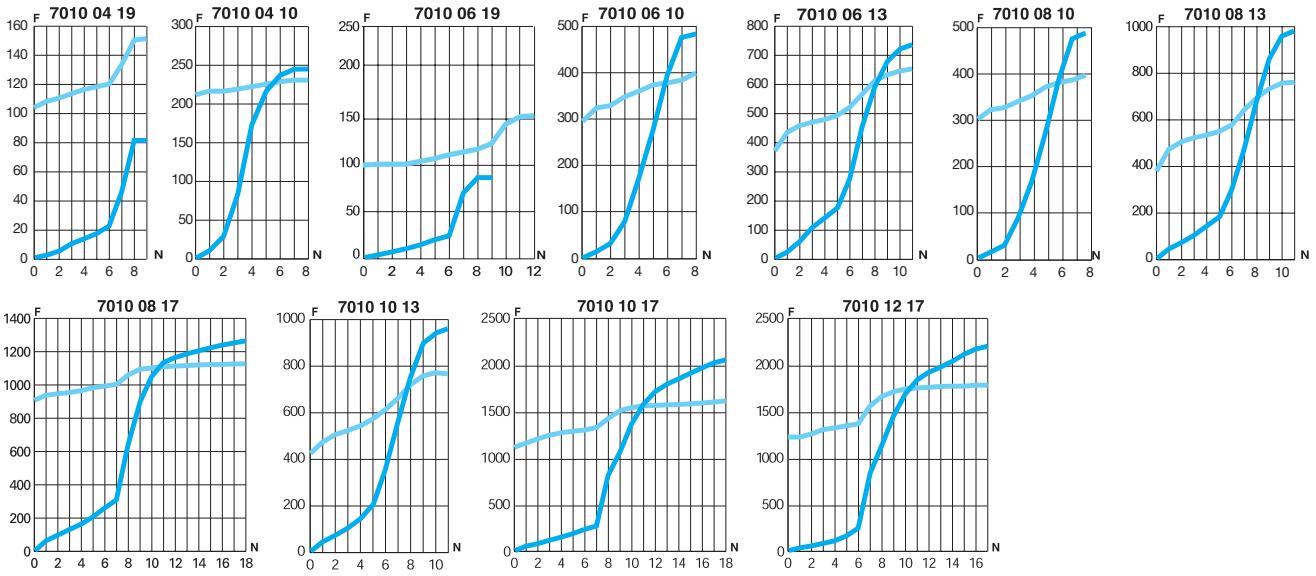
You will also find our range of stainless steel push-in fittings, compression fittings, valves and accessories in this catalogue.

Flow Characteristics (at 6 bar)

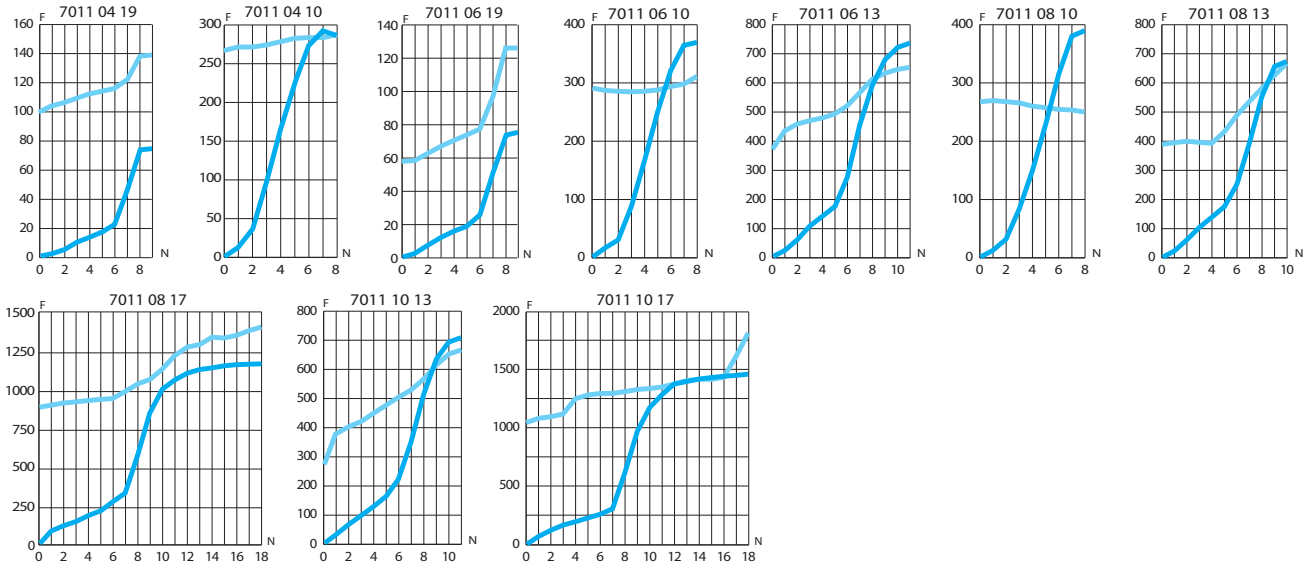
for Flow Control Regulators

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

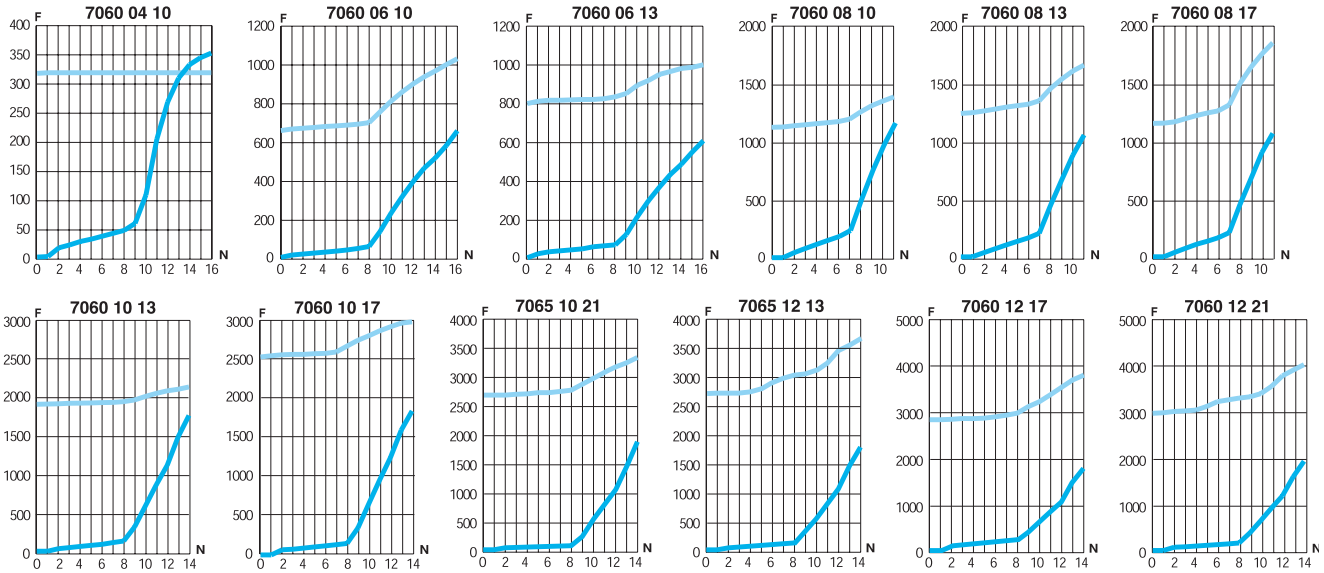
Direction of adjustment
Return

F: Flow in Nl/min
N: Number of turns

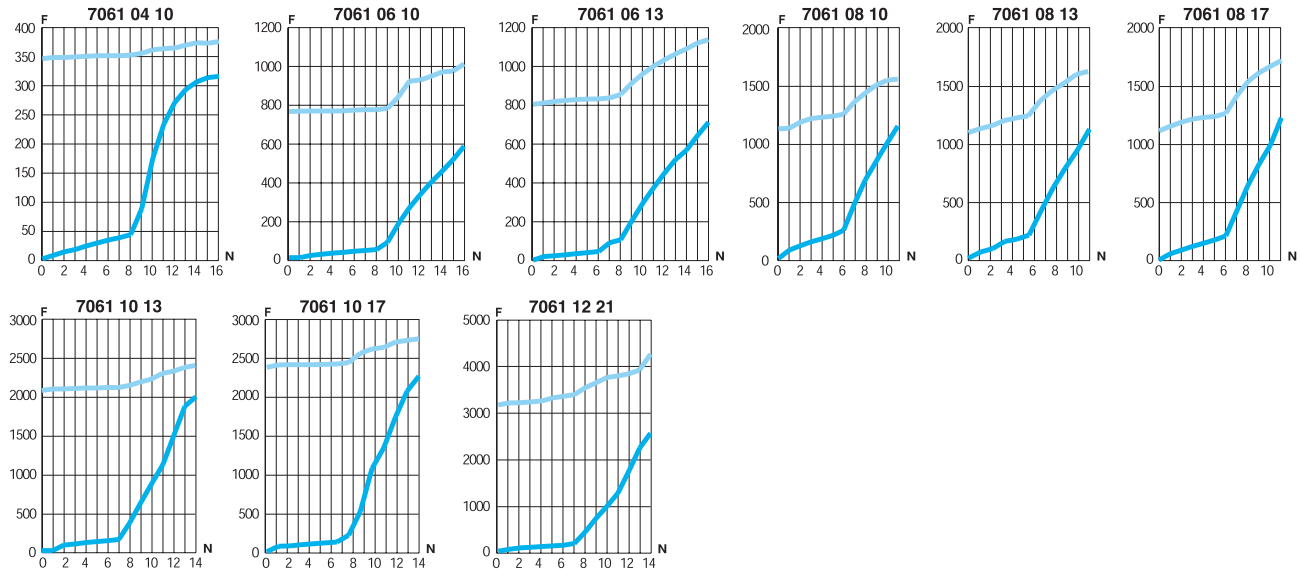
Flow Characteristics (at 6 bar)
for Flow Control Regulators

7060
7061
7062

7060



7061



7062

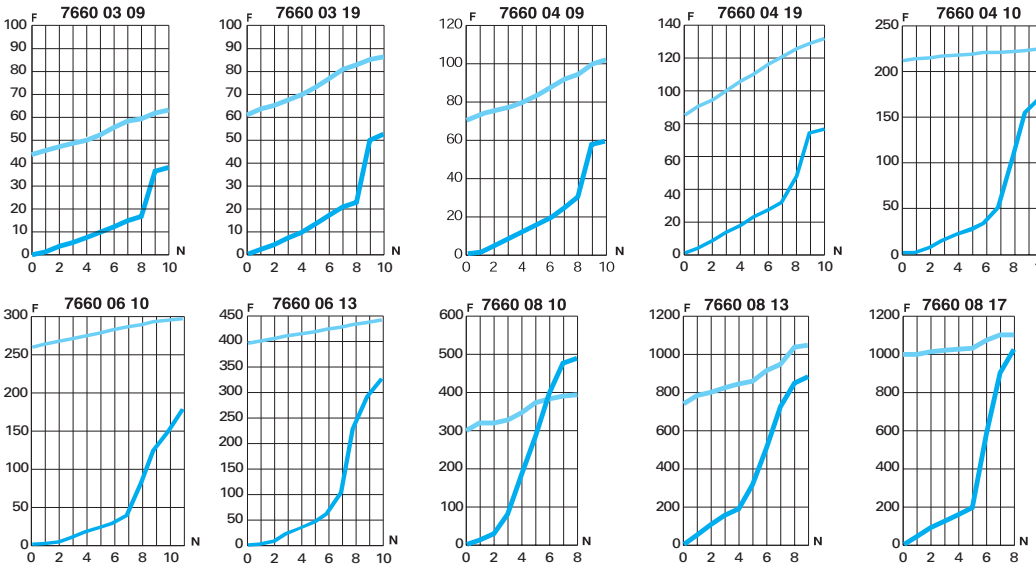
Flow characteristics for model 7062:
- exhaust version (see model 7060, direction of adjustment)
- supply version (see model 7061, direction of adjustment)

Flow Characteristics (at 6 bar)

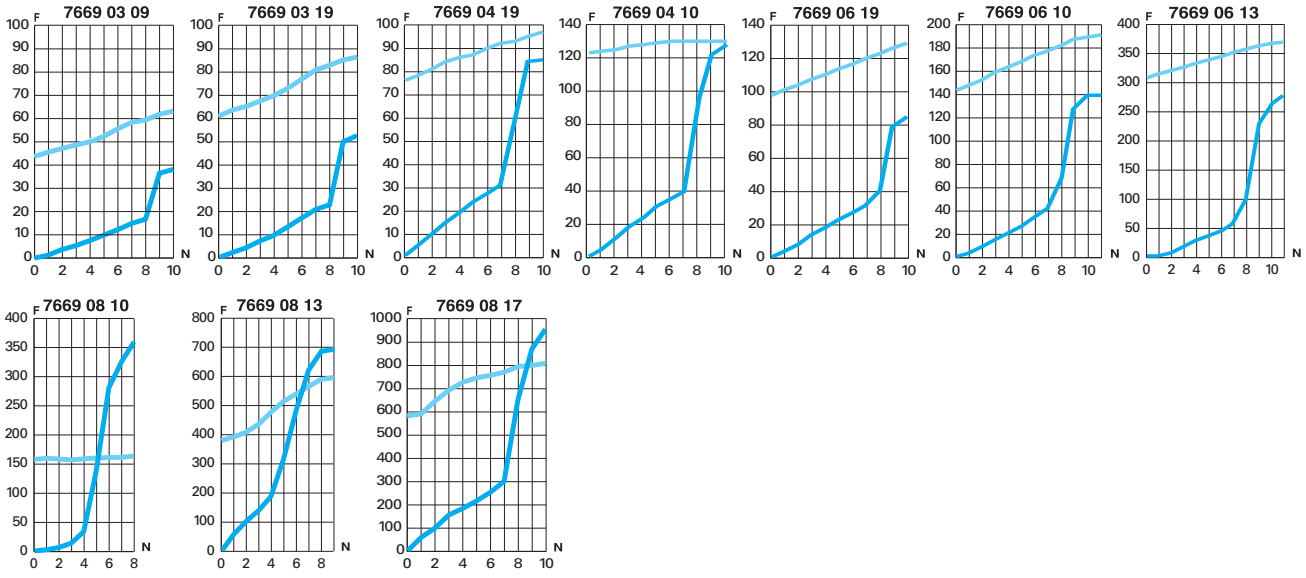
for Flow Control Regulators

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

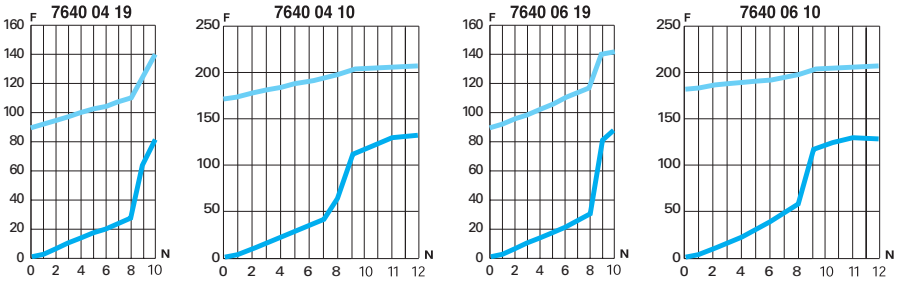
F: Flow in Nl/min

N: Number of turns

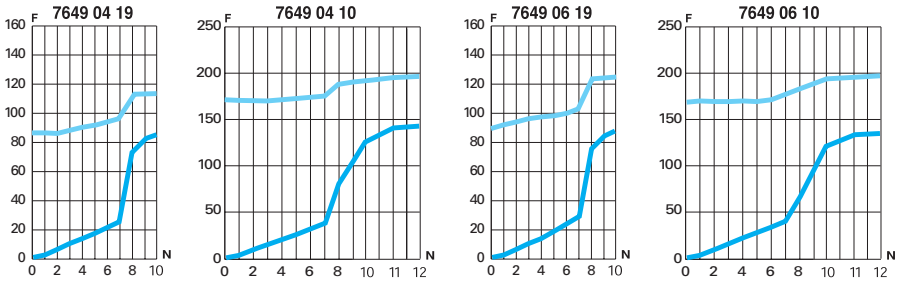
Flow Characteristics (at 6 bar)
for Flow Control Regulators

7640
7649

7640



7649



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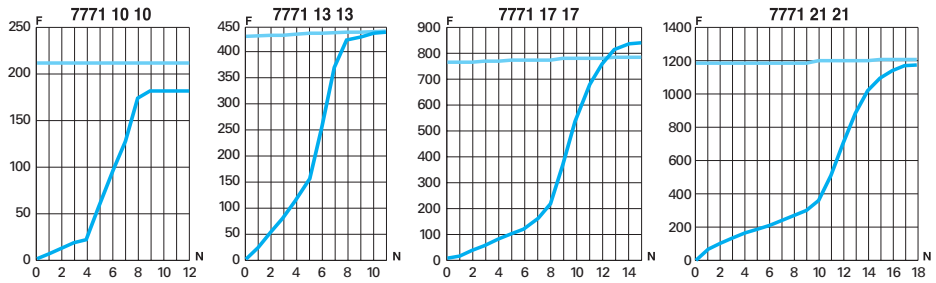

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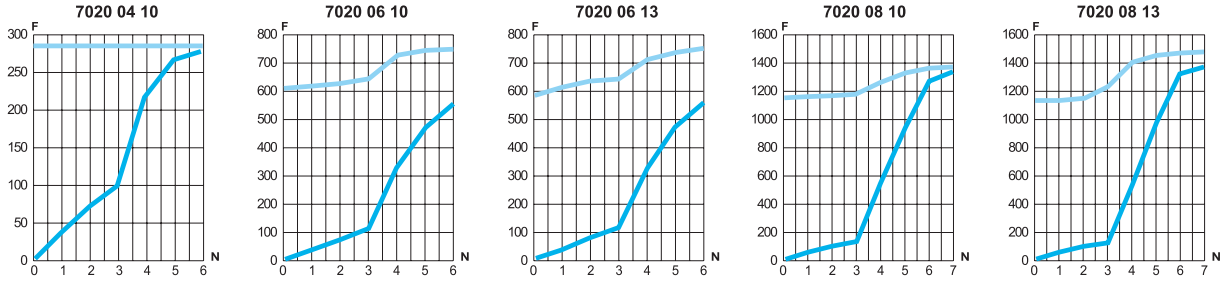
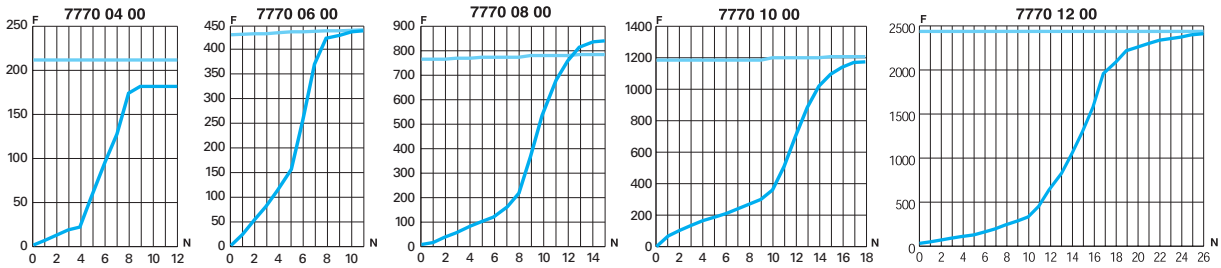


Flow Characteristics (at 6 bar)

for Flow Control Regulators

7770



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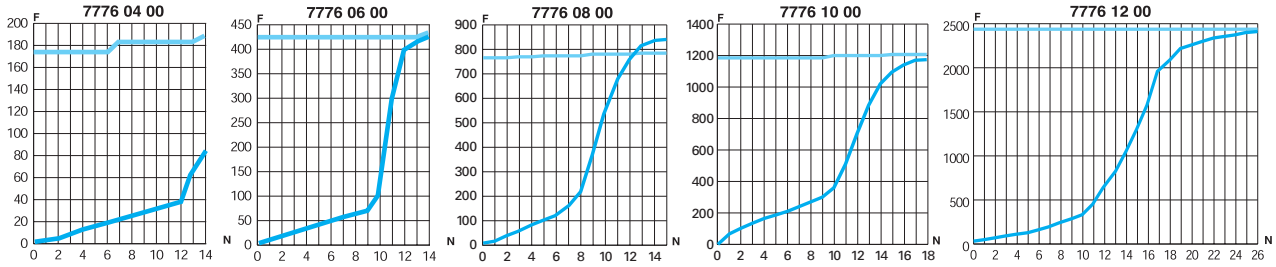
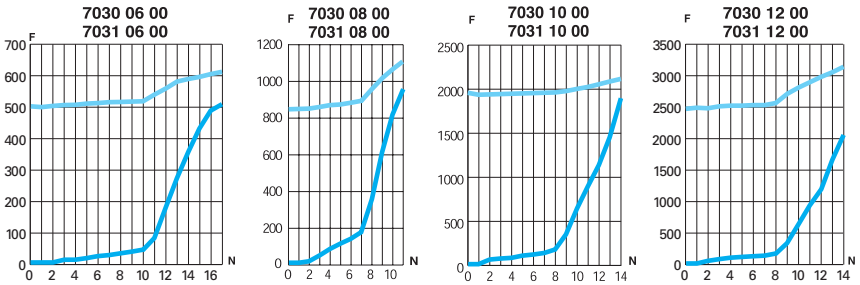
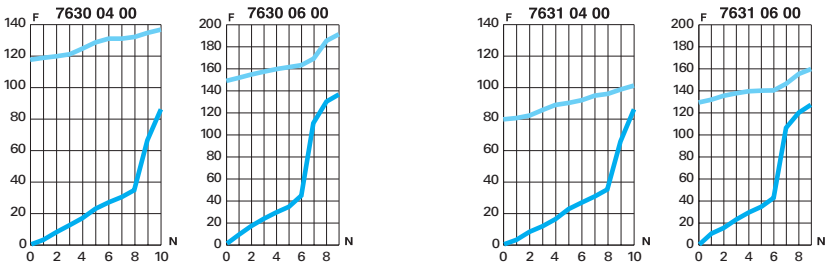


7030
7031



7630
7631



6 bar

Direction of adjustment

Return

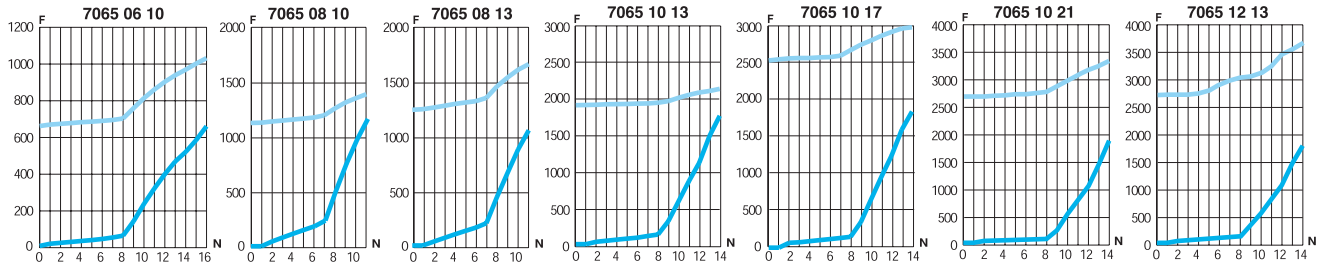
F: Flow in Nl/min

N: Number of turns

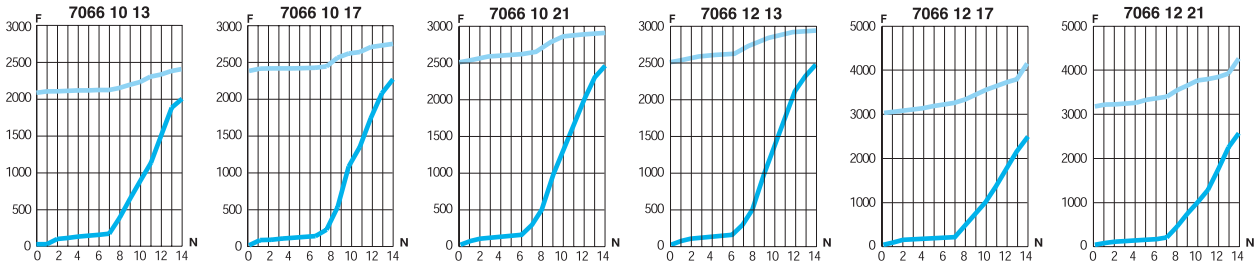
Flow Characteristics (at 6 bar)
for Flow Control Regulators

7065
7066
7067

7065



7066

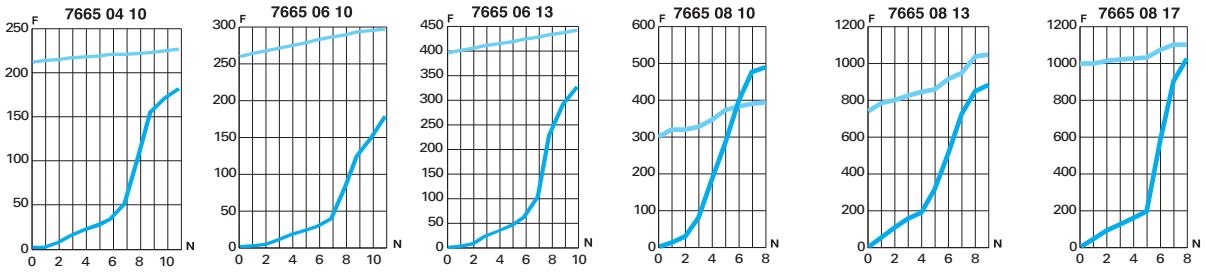


7067

Flow characteristics for model 7067:
- exhaust version: see model 7065, direction of adjustment
- supply version: see model 7066, direction of adjustment

7665
7668

7665



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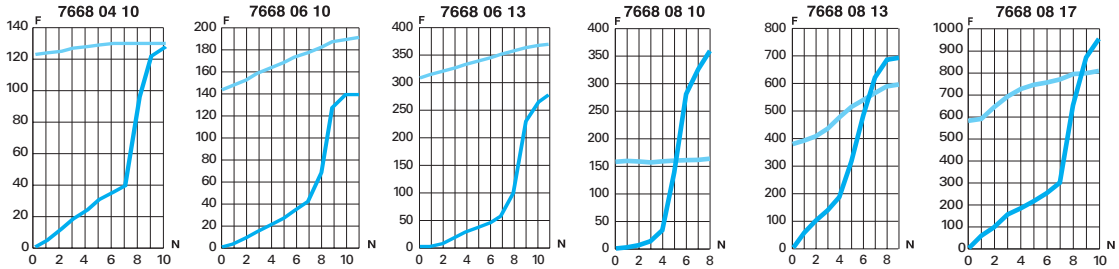
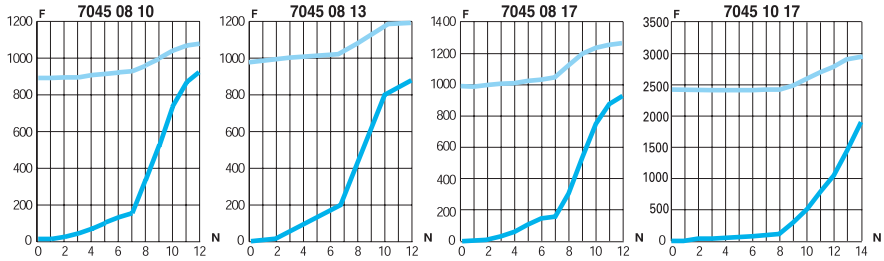


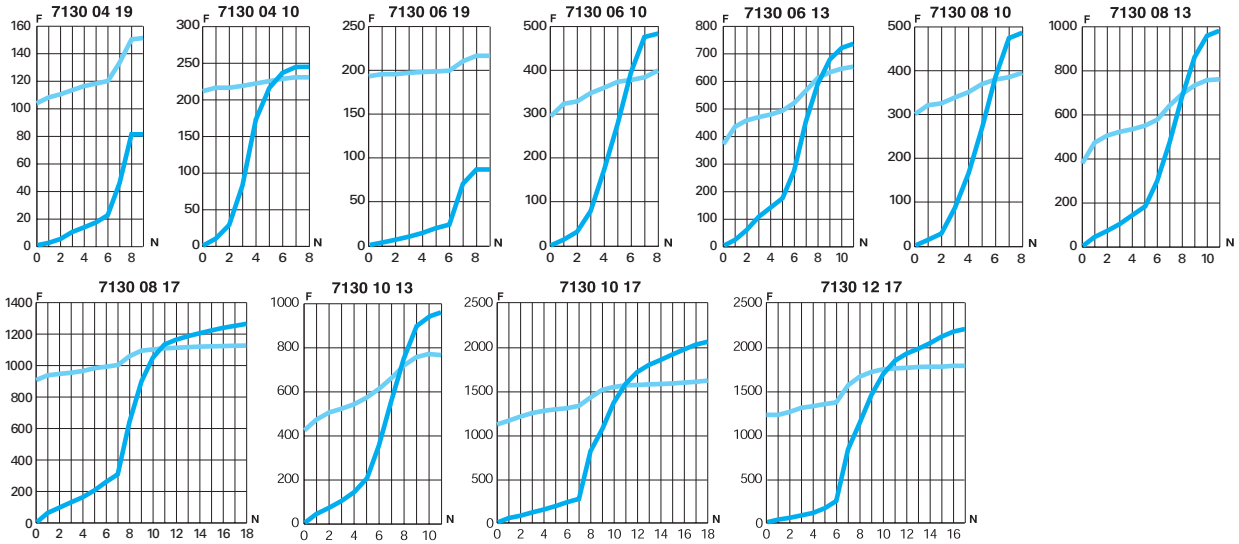
Flow Characteristics (at 6 bar)

for Flow Control Regulators

7045



7130



6 bar

Direction of adjustment

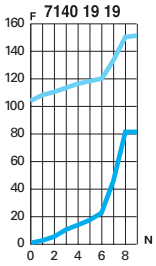
Return

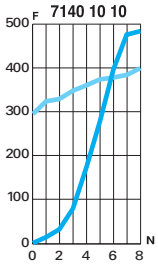
F: Flow in Nl/min

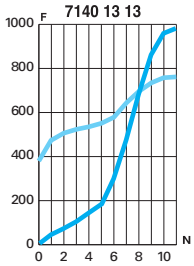
N: Number of turns

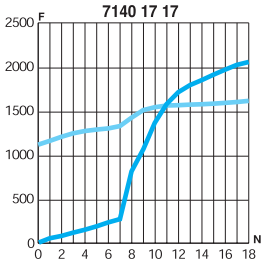
Flow Characteristics (at 6 bar)
for Flow Control Regulators

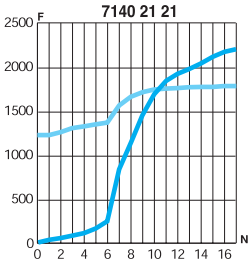
7140



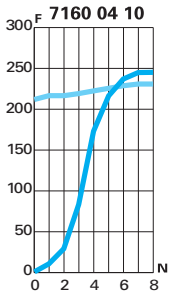


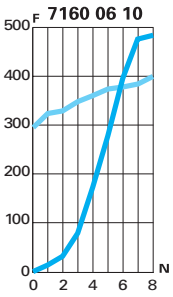


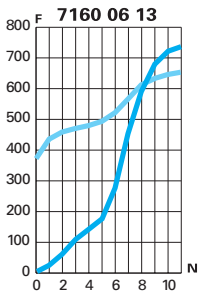


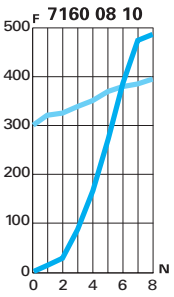


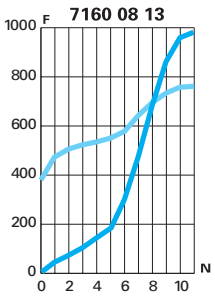
7160

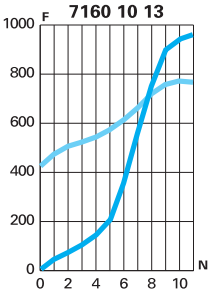


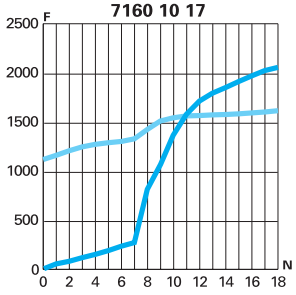


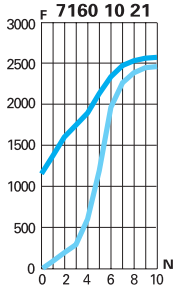


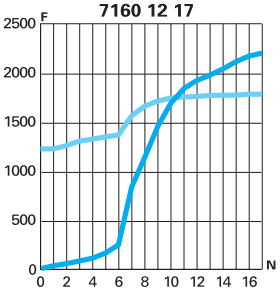


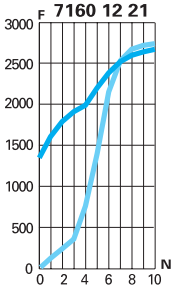












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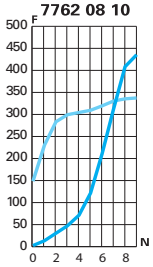
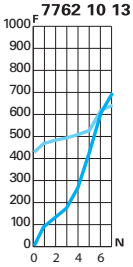
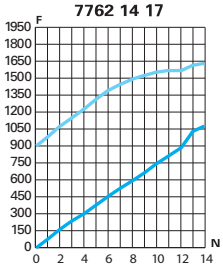
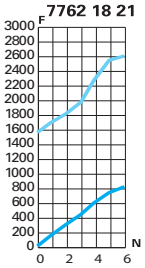






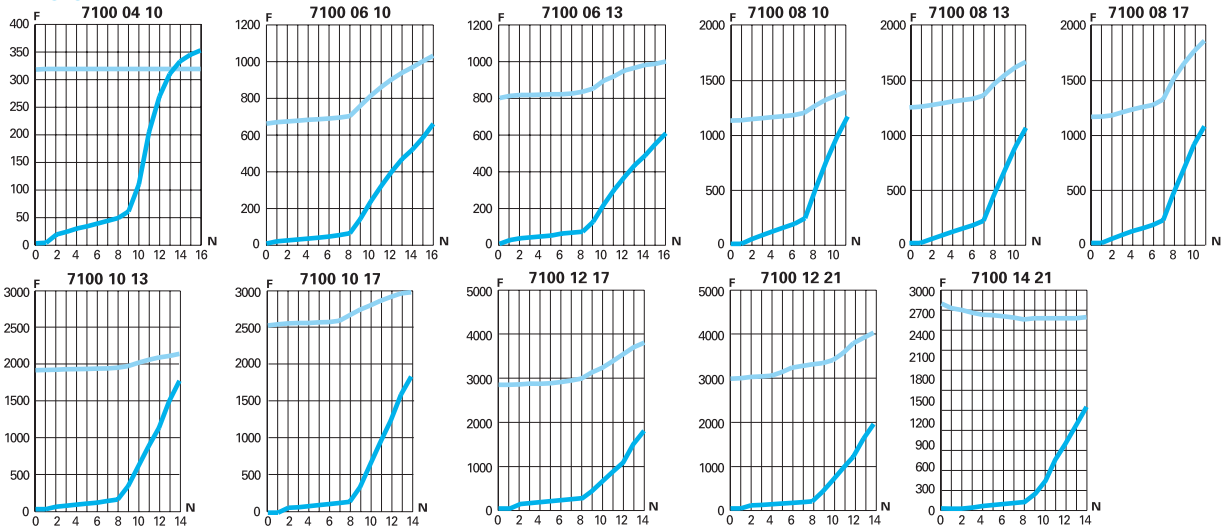


Flow Characteristics (at 6 bar)

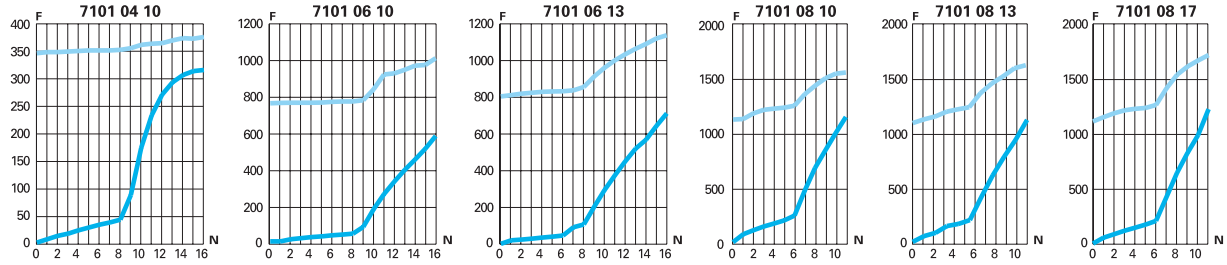
for Flow Control Regulators

7100
7101

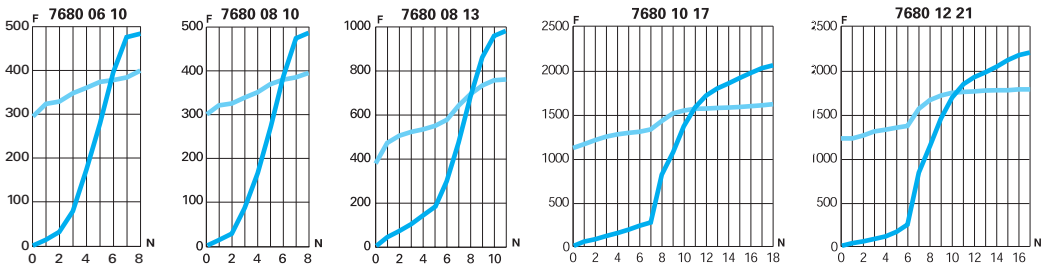
7100



7101



7680



6 bar

Direction of adjustment

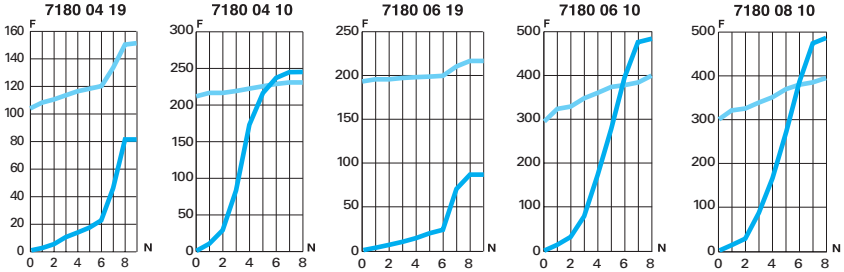
Return

F: Flow in Nl/min

N: Number of turns

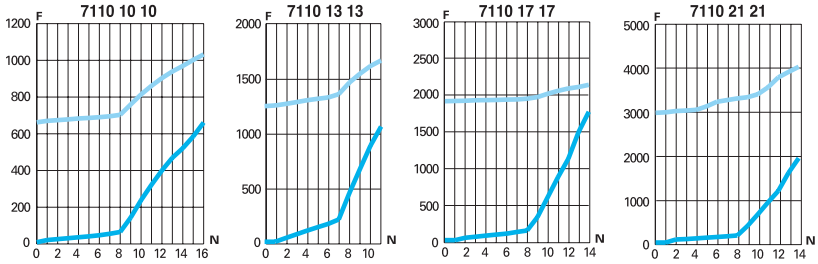
Flow Characteristics (at 6 bar)
for Flow Control Regulators

7180



7110
7111

7110



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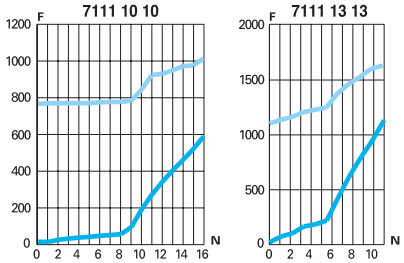
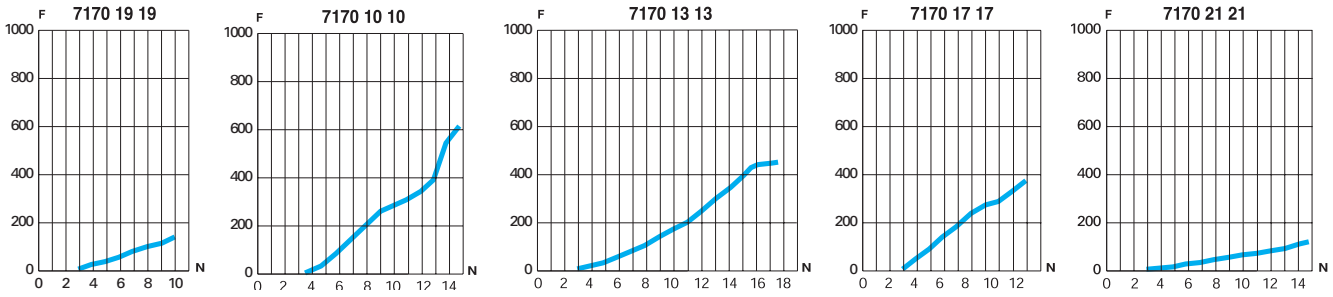


7170



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 Page 4-39

7894 BSPP Page 4-39

Non-Return Valves

7996 Page 4-41

7984 **7994** BSPP/Metric Page 4-41

7985 **7995** BSPT Page 4-41

Adjustable Non-Return Valves

7930 BSPP/Metric Page 4-43

7931 BSPP Page 4-43

7932 BSPP Page 4-43

LIQUIfit® Non-Return Valves

7992 Page 4-45

Stainless Steel Non-Return Valves

4890 BSPP Page 4-47

4891 BSPP Page 4-47

4892 BSPP Page 4-47

4895 NPT Page 4-47

Soft Start Fittings

7860 BSPP Page 4-49

7870 BSPP Page 4-49

7861 BSPP Page 4-49

7871 BSPP Page 4-49

Pneumatic Sensor Fittings

7818 BSPP/Metric Page 4-51

7828 BSPP/Metric Page 4-51

Pressure Regulator Fittings

7300 BSPP Page 4-53

Pressure Reducer Fittings

7318 BSPP Page 4-55

7471 BSPP Page 4-55

7316 Page 4-55

7416 BSPP Page 4-55

7000 Page 4-55

7000 Page 4-55

Snap Fittings

7926 Page 4-57

7921 BSPP Page 4-57

7960 Page 4-57

7961 BSPP Page 4-57

Manually-Operated Valves

7800 **7801** BSPP/Metric Page 4-59

7802 BSPP Page 4-59

0669 BSPP/Metric Page 4-59

Function Fittings Range

Metal Quick Exhaust Valves

7970
BSPP/Metric
Page 4-61

7971
BSPP/BSPT
Page 4-61

7899
BSPP
Page 4-61

Silencers

0674
BSPP/Metric
Page 4-63

0676
BSPP/Metric
Page 4-63

0670
BSPP
Page 4-63

0673
BSPP/Metric
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0675
BSPP/Metric
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0671
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0677
BSPP
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0672
BSPP
Page 4-64

0682
BSPP
Page 4-64

0683
NPT
Page 4-64

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

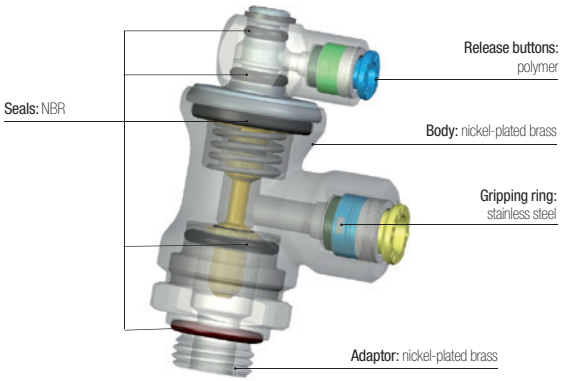
Robotics
Machine Tools
Textile
Packaging
Pneumatics
Automotive Process

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	1 to 10 bar
Working Temperature	-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	650Nl/min	Pilot Pressure	2.40	2.90	3.30	3.60	4.00
	650Nl/min	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	1600Nl/min	Pilot Pressure	2.70	3.20	3.50	3.80	4.10
	1600Nl/min	Depilot Pressure	1.40	1.80	2.10	2.40	2.70

Component Materials



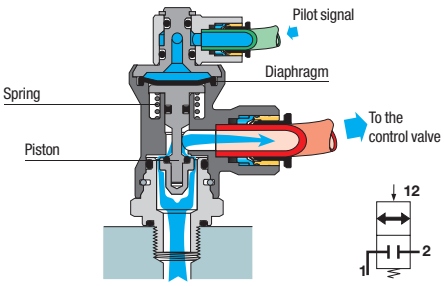
Silicone-free

Regulations

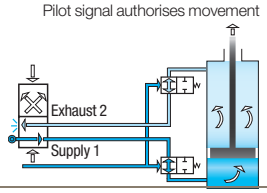
DI: 2002/95/EC (RoHS)
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

Operation

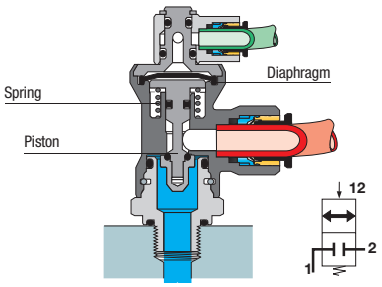
Cylinder in Operation (pilot signal active)



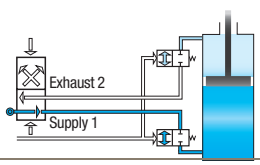
Pilot signal authorises movement



Cylinder Blocked (pilot signal removed)

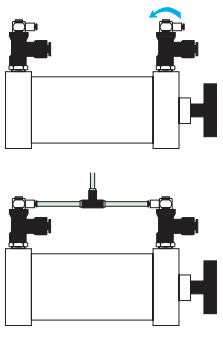


No signal blocks movement



Installation

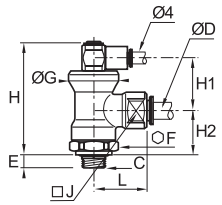
Mounted in pairs, blocking fittings are installed directly on the cylinder. Being fully orientable, they offer excellent flexibility in the design and installation of pneumatic circuits.



Blocking Fittings

7880 Blocking Fitting, Male BSPP Thread

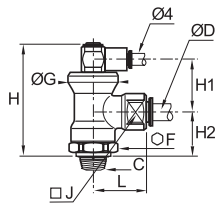
Nickel-plated brass, NBR



ØD	C		E	F	G	H	H1	H2	J	L	kg
6	G1/8	7880 06 10	5.5	21	24	53	24.5	21	17	28	0.126
	G1/4	7880 06 13	6.5	21	24	53	24.5	21	17	28	0.128
8	G1/4	7880 08 13	6.5	21	24	53	24.5	21	17	28	0.122
	G3/8	7880 08 17	7.5	21	24	53	24.5	21	17	28	0.127
10	G3/8	7880 10 17	7.5	24	28	58	25	25	27	35	0.209
12	G1/2	7880 12 21	9	24	28	58	25	25	27	37.5	0.222

7885 Blocking Fitting, Male BSPT Thread

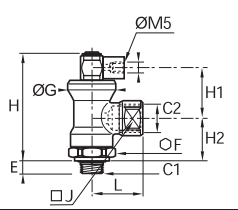
Nickel-plated brass, NBR



ØD	C		F	G	H	H1	H2	J	L	kg
6	R1/8	7885 06 10	21	24	51.5	25	20	17	28	0.127
	R1/4	7885 06 13	21	24	51.5	25	20	17	28	0.131
8	R1/4	7885 08 13	21	24	51.5	25	20	17	28	0.126
	R3/8	7885 08 17	21	24	51.5	25	20	17	28	0.130
10	R3/8	7885 10 17	24	28	57	25	24	27	35	0.222
	R1/2	7885 12 21	24	28	57	25	24	27	37.5	0.229

7881 Blocking Fitting, Male/Female BSPP Thread

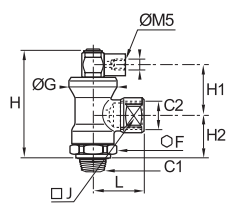
Nickel-plated brass, NBR



C1	C2		E	F	G	H	H1	H2	J	L	kg
G1/8	G1/4	7881 13 10	5.5	21	24	53	24.5	21	17	25.5	0.118
G1/4	G1/4	7881 13 13	6.5	21	24	53	24.5	21	17	25.5	0.119
G3/8	G3/8	7881 17 17	7.5	24	28	58	25	25	27	34	0.211
G1/2	G1/2	7881 21 21	9	24	28	58	25	25	27	40	0.226

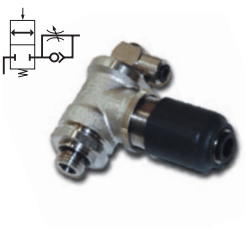
7886 Blocking Fitting, Male/Female BSPT Thread

Nickel-plated brass, NBR

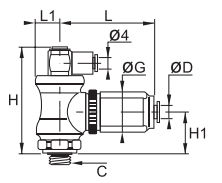


C1	C2		F	G	H	H1	H2	J	L	kg
R1/8	R1/4	7886 13 10	21	24	51.5	25	20	17	26.5	0.121
R1/4	R1/4	7886 13 13	21	24	51.5	25	20	17	26.5	0.126
R3/8	R3/8	7886 17 17	24	28	57	25	24	27	34	0.225
R1/2	R1/2	7886 21 21	24	28	57	25	24	27	40	0.240

7883 Blocker/Flow Regulator, Male BSPP Thread



Nickel-plated brass, technical polymer, NBR



ØD	C		G	H	H1	L	L max	L1	kg
4	G1/8	7883 04 10	21.5	53	21	46.5	52	12	0.166
6	G1/8	7883 06 10	21.5	53	21	46.5	52	12	0.163
	G1/4	7883 06 13	21.5	53	21	46.5	52	12	0.166
8	G1/4	7883 08 13	27	57.5	24.5	54	60	14	0.251
	G3/8	7883 08 17	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

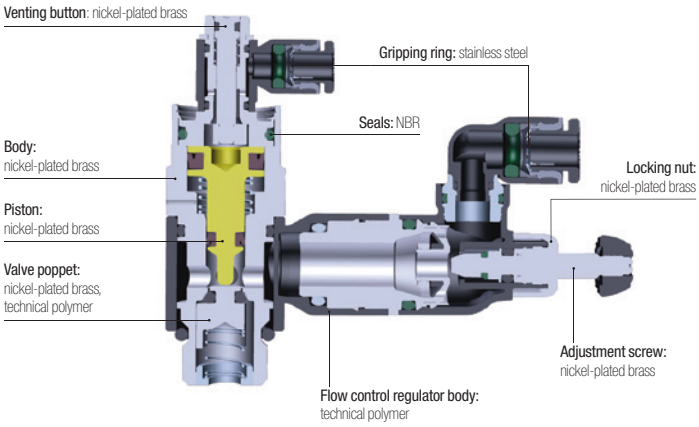
Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	1 to 10 bar
Working Temperature	-5°C to +60°C
Cracking Pressure	0.3 bar

Regulations

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

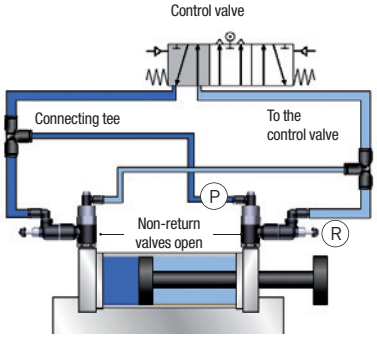
Component Materials



Silicone-free

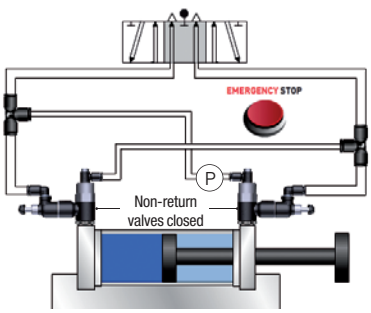
Operation

Normal Operation



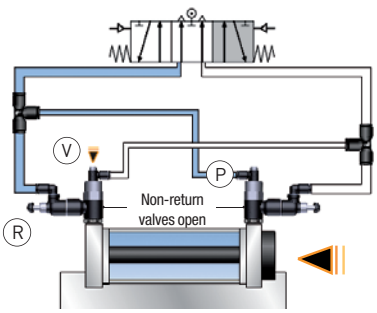
Pilot signal (P)
Regulation of cylinder rod speed (R)

Emergency Stop or Pressure Drop



Drop/removal of pilot pressure (P) = cylinder rod locked

Venting Operation

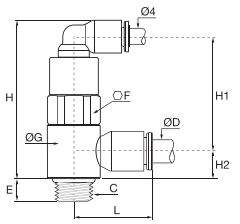


Venting (V) returns the cylinder rod to the to start position, emptying the pressure chamber through the flow regulator (R) and pilot line (P)

Piloted Non-Return Valves

7892 Piloted Non-Return Valve, Male BSPP Thread

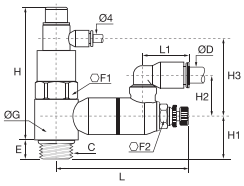
Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	G	H	H1	H2	L	kg
6	G1/8	7892 06 10	6	13	14	42	30	7	21	0.020
	G1/4	7892 06 13	9	17	18.5	45	32	9	23	0.042
8	G1/8	7892 08 10	6	13	14	42	29	9	25	0.020
	G1/4	7892 08 13	9	17	18.5	45	32	9	27	0.042
	G3/8	7892 08 17	6	20	22.5	57	41	11	28	0.093
10	G3/8	7892 10 17	6	20	22.5	57	41	11	31	0.144
	G1/2	7892 10 21	10	24	28	63	47	16	36	0.109
12	G1/2	7892 12 21	10	24	28	63	47	16	36	0.150

7894 Piloted Non-Return Valve with Flow Regulator and Exhaust, Male BSPP Thread

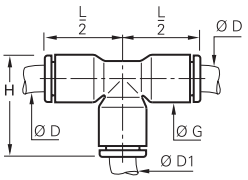
Technical polymer, nickel-plated brass, NBR



ØD	C		E	F1	F2	G	H	H1	H2	H3	L	L max	L1	kg
6	G1/8	7894 06 10	6	13	8	14	46	7	24	31	48.5	51	16	0.041
	G1/4	7894 06 13	9	17	10	18.5	49	11	18	31	59.5	65	17	0.067
8	G1/8	7894 08 10	6	13	8	14	46	7	27	31	48.5	51	22	0.051
	G1/4	7894 08 13	9	17	10	18.5	49	11	23	31	59.5	65	23	0.068
	G3/8	7894 08 17	7	20	14	22.5	69	13	21	40	67.5	73	23	0.060
10	G3/8	7894 10 17	7	20	14	22.5	69	13	29	40	67.5	73	26	0.061
	G1/2	7894 10 21	9	24	17	28	76	12.5	26	47	74	81	26	0.234
12	G1/2	7894 12 21	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	3104 06 04	10.5	22.5	17.5	0.005
8	4	3104 08 04	13.5	29	22.5	0.014
10	4	3104 10 04	16	33	26	0.027
12	4	3104 12 04	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 (Nl/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

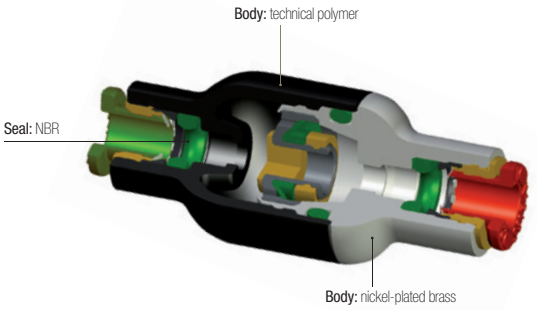
Applications

Automotive Process
Robotics
Vacuum
Textile
Semi-Conductors
Packaging
Pneumatics

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 (Nl/min)	**Model** / **Flow at 6 bar** 4 mm / 350 6 mm / 670 8 mm / 1080 10 mm / 2230 12 mm / 2300

Component Materials



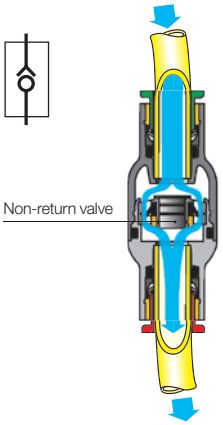
Silicone-free

Regulations

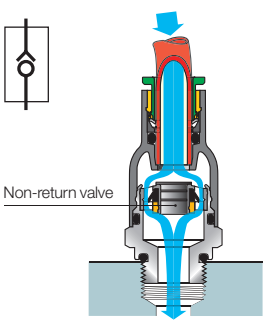
DI: 2002/95/EC (RoHS)
RG: 1907/2006 (REACH)
DI: 97/23/EC (PED)

Operation

In-Line Version

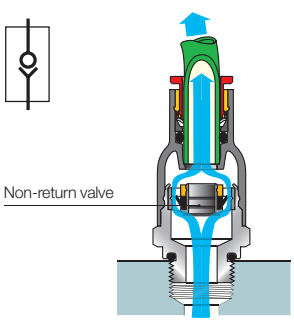


Supply Version



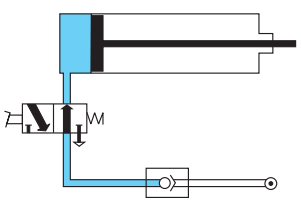
Models 7984-7985

Exhaust Version



Models 7994-7995

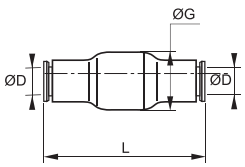
Installation Diagram



Non-Return Valves

7996 In-Line Equal Non-Return Valve

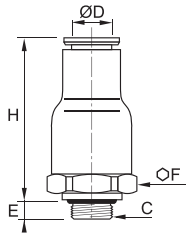
Technical polymer, nickel-plated brass, NBR



ØD		G	L	kg
4	7996 04 00	16	38.5	0.008
6	7996 06 00	16	41	0.013
8	7996 08 00	19	51.5	0.017
10	7996 10 00	23	63.5	0.070
12	7996 12 00	23	66.5	0.050

7984 In-Line Non-Return Valve, Supply, Male BSPP and Metric Thread

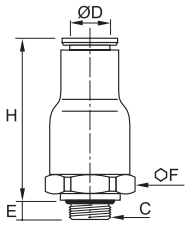
Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	H	kg
4	M5x0.8	7984 04 19	3	9	32	0.008
	G1/8	7984 04 10	5	16	28.5	0.015
6	G1/8	7984 06 10	5	16	30.5	0.015
	G1/4	7984 06 13	5.5	16	30.5	0.015
8	G1/8	7984 08 10	5	19	36	0.021
	G1/4	7984 08 13	5.5	19	36	0.023
10	G3/8	7984 10 17	5.5	23	42	0.047
12	G3/8	7984 12 17	5.5	23	42	0.010
	G1/2	7984 12 21	7.5	23	44	0.041

7994 In-Line Non-Return Valve, Exhaust, Male BSPP and Metric Thread

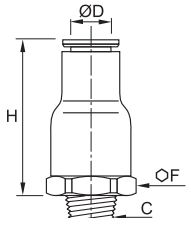
Technical polymer, nickel-plated brass, NBR



ØD	C		E	F	H	kg
4	M5x0.8	7994 04 19	3	9	32	0.790
	G1/8	7994 04 10	5	16	28.5	0.018
6	G1/8	7994 06 10	5	16	30.5	0.015
	G1/4	7994 06 13	5.5	16	30.5	0.015
8	G1/8	7994 08 10	5	19	36	0.023
	G1/4	7994 08 13	5.5	19	36	0.023
10	G3/8	7994 10 17	5.5	23	42	0.050
12	G3/8	7994 12 17	5.5	23	42	0.043
	G1/2	7994 12 21	7.5	23	44	0.045

7985 In-Line Non-Return Valve, Supply, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

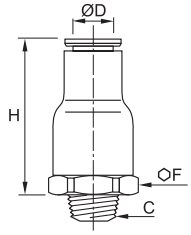


ØD	C		F	H	kg
4	R1/8	7985 04 10	16	28.5	0.016
6	R1/8	7985 06 10	16	30.5	0.016
	R1/4	7985 06 13	16	30.5	0.021
8	R1/8	7985 08 10	19	36	0.022
	R1/4	7985 08 13	19	36	0.020
10	R3/8	7985 10 17	23	42	0.049
12	R3/8	7985 12 17	23	42	0.042
	R1/2	7985 12 21	23	44	0.048

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	7995 04 10	16	28.5	0.015
6	R1/8	7995 06 10	16	30.5	0.016
	R1/4	7995 06 13	16	30.5	0.022
8	R1/8	7995 08 10	19	36	0.022
	R1/4	7995 08 13	19	36	0.026
10	R3/8	7995 10 17	23	42	0.048
12	R3/8	7995 12 17	23	42	0.042
	R1/2	7995 12 21	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

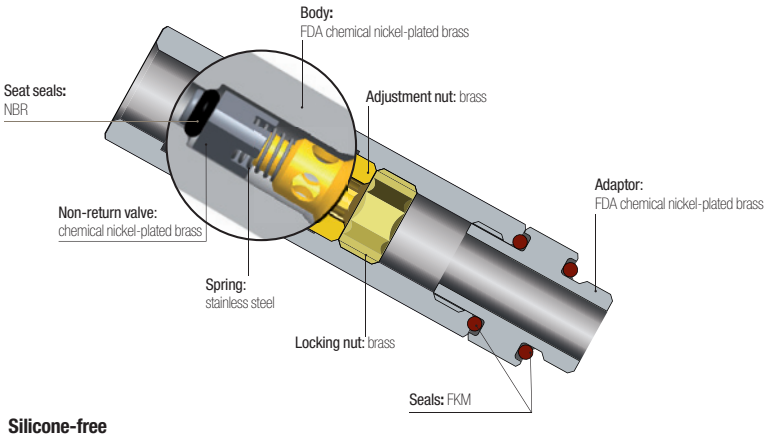
Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	0 to 12 bar
Working Temperature	-20°C to +80°C

	Threads	0 to 4 turns (values given as an example only)
Cracking Pressure	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

Max. Tightening Torques	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5

Component Materials



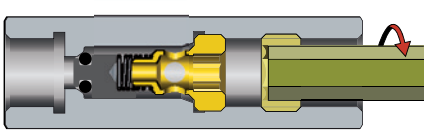
Silicone-free

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 ≥ 0.02 litre per hour)
DI: 2006/42/EC (external surface Ra < 0.8 µm)
RG: 1907/2006 (REACH)

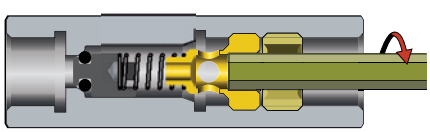
Operation

Step 1



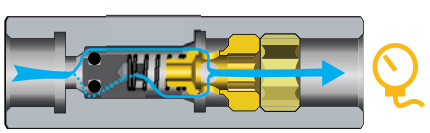
Unscrew the locking nut with an Allen key.

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

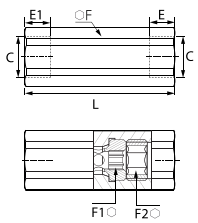


Tighten the locking nut with the Allen key to lock the cracking pressure setting. Then, control the pressure with a pressure gauge downstream.

Nickel-Plated Brass Adjustable Non-Return Valves

7930 Adjustable Check Valve, Double Female BSPP and Metric Thread

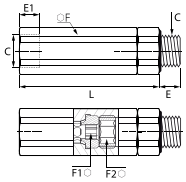
FDA chemical nickel-plated brass, FKM



C		E	E1	F	F1	F2	L	kg
M5x0.8	7930 19 19	8	4	13	4	6	49	0.055
G1/8	7930 10 10	8	6	13	4	6	45	0.033
G1/4	7930 13 13	10	7.5	16	6	8	54	0.073
G3/8	7930 17 17	11	8.5	20	8	10	61.5	0.163
G1/2	7930 21 21	13	10	24	10	12	73	0.171

7931 Adjustable Check Valve Supply, Male/Female BSPP Thread

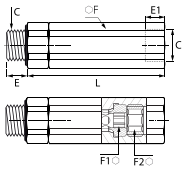
FDA chemical nickel-plated brass, FKM



C		E	E1	F	F1	F2	L	kg
G1/8	7931 10 10	5.5	6	13	4	6	51.5	0.043
G1/4	7931 13 13	6.5	7.5	16	6	8	61.5	0.208
G3/8	7931 17 17	7.5	8.5	20	8	10	70	0.125
G1/2	7931 21 21	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	7932 10 10	5.5	8	13	4	6	51.5	0.009
G1/4	7932 13 13	6.5	10	16	6	8	61.5	0.058
G3/8	7932 17 17	7.5	11	20	8	10	70	0.123
G1/2	7932 21 21	9	13	24	10	12	82.5	0.212

Function Fittings

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

Applications

Water Softeners
Water Treatment
Water Purification
Drinks Dispensers
Hot & Cold Water Systems

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

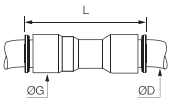
Regulations

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	7992 56 00WP2	17	51	0.008
3/8	7992 60 00WP2	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.

Function Fittings

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

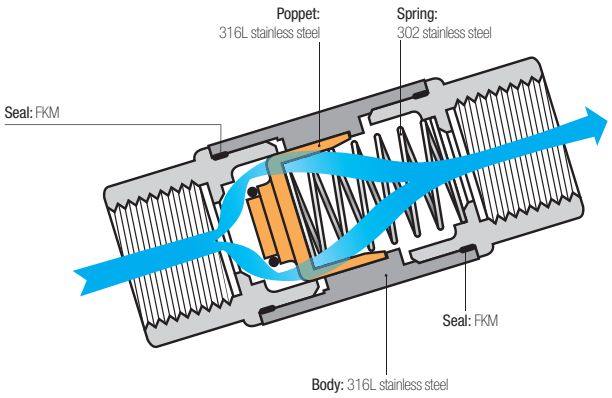
Pneumatics
Machine Tools
Food Process
Printing
Chemical
Textile
Automotive Process

Technical Characteristics

Compatible Fluids	Many fluids
Working Pressure	0.5 to 40 bar
Working Temperature	-20°C to +180°C

	Threads	Nl/min	Kv
Flow Characteristics	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
Cracking Pressure	0.25 bar		

Component Materials



Silicone-free

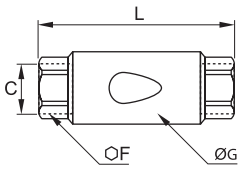
Regulations

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

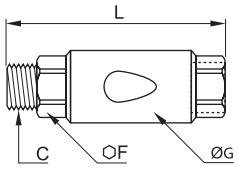
Stainless steel 316L, FKM



C	DN		F	G	L	kg
G1/8	10	4890 10 10	17	22	50	0.083
G1/4	10	4890 13 13	17	22	50	0.074
G3/8	15	4890 17 17	22	30	67	0.183
G1/2	15	4890 21 21	24	30	71	0.209
G3/4	20	4890 27 27	32	42	84	0.289
G1	25	4890 34 34	38	42	90	0.519

4891 Non-Return Valve, Supply, Male BSPP Thread/Exhaust, Female BSPP Thread

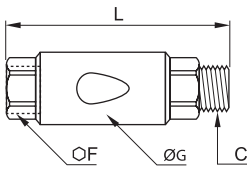
Stainless steel 316L, FKM



C	DN		F	G	L	kg
G1/8	10	4891 10 10	17	22	56	0.100
G1/4	10	4891 13 13	17	22	58	0.082
G3/8	15	4891 17 17	22	30	75	0.189
G1/2	15	4891 21 21	24	30	79	0.209
G3/4	20	4891 27 27	32	42	84	0.300
G1	25	4891 34 34	38	42	102	0.519

4892 Non-Return Valve, Supply, Female BSPP Thread/Exhaust, Male BSPP Thread

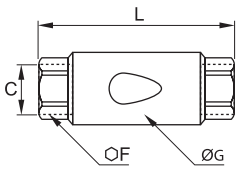
Stainless steel 316L, FKM



C	DN		F	G	L	kg
G1/8	10	4892 10 10	17	22	56	0.100
G1/4	10	4892 13 13	17	22	58	0.082
G3/8	15	4892 17 17	22	30	75	0.191
G1/2	15	4892 21 21	24	30	79	0.209
G3/4	20	4892 27 27	32	42	84	0.300
G1	25	4892 34 34	38	42	102	0.519

4895 Non-Return Valve, Female NPT Thread

Stainless steel 316L, FKM



C	DN		F	G	L	kg
NPT1/8	10	4895 11 11	17	22	50	0.083
NPT1/4	10	4895 14 14	17	22	54	0.079
NPT3/8	15	4895 18 18	22	30	67	0.197
NPT1/2	15	4895 22 22	24	30	77	0.194

Function Fittings

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

Applications

Pneumatic Systems
Robotics
Textile
Semi-Conductors
Packaging
Pneumatics

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	3 to 10 bar
Working Temperature	-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 Nl/min	0.80
7860 10 13	2100 Nl/min	1.20
7860 10 17	2200 Nl/min	1.30
7860 12 17	3100 Nl/min	1.00
7860 12 21	3100 Nl/min	1.00
7861 13 13	2100 Nl/min	1.20
7861 17 17	3100 Nl/min	1.00
7861 21 21	3100 Nl/min	1.00
7870 08 13	1500 Nl/min	0.80
7870 10 13	2000 Nl/min	1.15
7870 10 17	2000 Nl/min	1.15
7871 13 13	2000 Nl/min	1.15
7871 17 17	2000 Nl/min	1.15

Component Materials

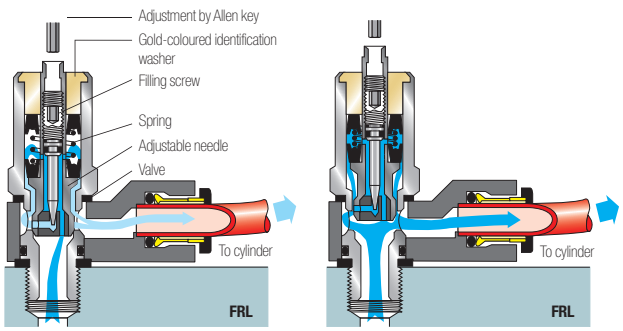
Silicone-free

Regulations

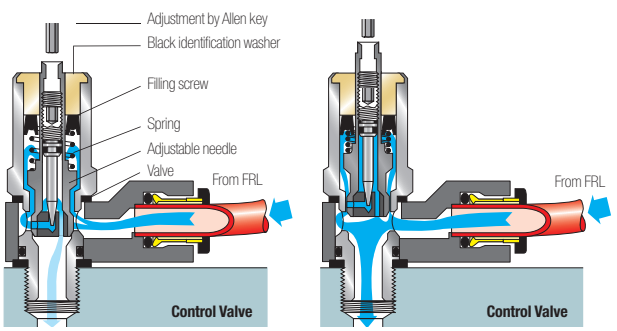
DI: 2002/95/CE (RoHS)
RG: 1907/2006 (REACH)
DI: 97/23/CE (PED)

Operation

Filter, Regulator, Lubricator

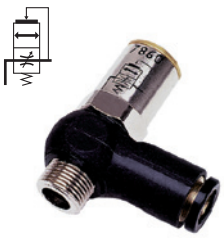


Control Valve

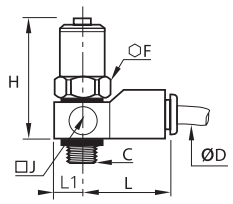


Soft Start Fittings

7860 Soft Start Fitting for Isolating Valve, Male BSPP Thread



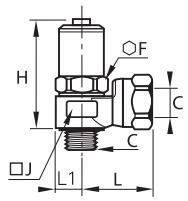
Technical polymer, nickel-plated brass, NBR



ØD	C		F	H min	H max	J	L	L1	kg
8	G1/4	7860 08 13	17	54	61	20	35	10	0.064
10	G1/4	7860 10 13	22	55	62	25	41	12.5	0.112
	G3/8	7860 10 17	22	55	62	25	41	12.5	0.115
12	G3/8	7860 12 17	22	55	62	25	45	12.5	0.125
	G1/2	7860 12 21	22	63.5	70.5	25	45	12.5	0.152

7861 Soft Start Fitting for Isolating Valve, Male/Female BSPP Thread

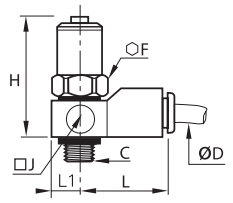
Nickel-plated brass, NBR



C		F	H min	H max	J	L	L1	kg
G1/4	7861 13 13	22	54	62	24	31	12	0.147
G3/8	7861 17 17	22	55	62	24	31	12	0.139

7870 Soft Start Fitting for Control Valve, Male BSPP Thread

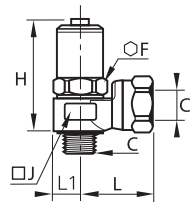
Technical polymer, nickel-plated brass, NBR



ØD	C		F	H min	H max	J	L	L1	kg
8	G1/4	7870 08 13	17	54	61	20	35	10	0.066
10	G1/4	7870 10 13	22	55	62	25	41	12.5	0.114
	G3/8	7870 10 17	22	55	62	25	41	12.5	0.117

7871 Soft Start Fitting for Control Valve, Male/Female BSPP Thread

Nickel-plated brass, NBR



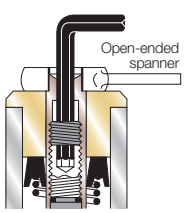
C		F	H min	H max	J	L	L1	kg
G1/4	7871 13 13	22	55	62	24	31	12	0.148
G3/8	7871 17 17	22	55	62	24	31	12	0.141

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.

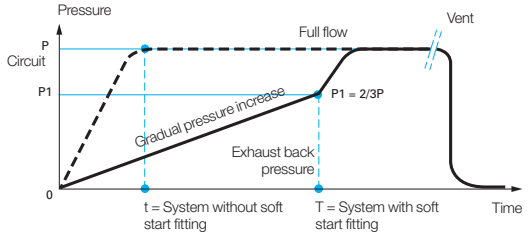
To adjust:
– immobilise the piston using a spanner
– adjust the screw with an Allen key
- 1.5 mm key for 8 mm diameter
- 2.5 mm key for 10 and 12 mm diameter

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

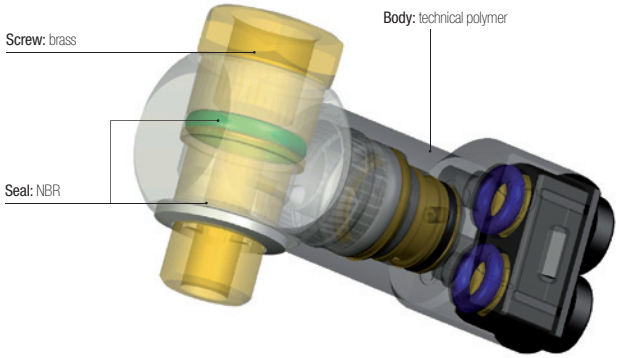
Applications

Robotics
Textile
Semi-Conductors
Packaging
Pneumatics

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	3 to 8 bar
Working Temperature	-15°C to +60°C
Back Pressure	0.85 to 1 bar
Switching Time	Model 7818: 3 ms
Open/Closed Contact	Model 7828: 2A / 0-48 V 2A / 250 V 50 Hz

Component Materials



Silicone-free

Regulations

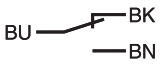
DI: 2002/95/EC (RoHS)
RG: 1907/2006 (REACH)
DI: 97/23/EC (PED)

Operation

Pneumatic Installation Diagram

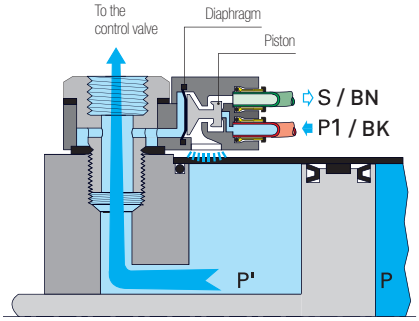
P': Exhaust back pressure
P: Dynamic pressure
P1: Sensor supply pressure
S: Output signal

Electrical Installation Diagram

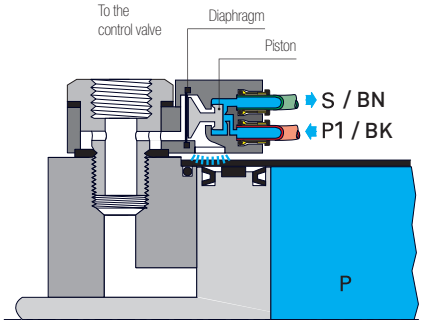


Connection via 3 core 0.5 mm² cable, 2 meters long.
Contactor: 5A / 250 V ∿ or 5W / 48V ⎓

Cylinder in Operation

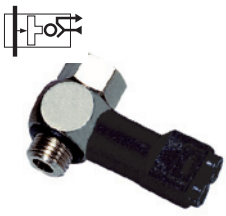


Cylinder in Final Position

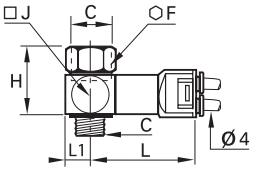


Pneumatic Sensor Fittings

7818 Pneumatic Sensor Fitting, Male BSPP and Metric Thread



Technical polymer, zamak, brass, NBR

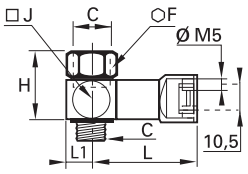


ØD	C		F	H	J	L	L1	kg
4	M5x0.8	7818 04 19*	8	16	11	43.5	5.5	0.025
	G1/8	7818 04 10	14	23	16	44.5	8	0.043
	G1/4	7818 04 13	17	28	19.5	46.5	10	0.061
	G3/8	7818 04 17	22	29	23.5	49	12	0.083
	G1/2	7818 04 21	27	30	31.5	52.5	16	0.125

* Bolt zinc passivated steel

7818 Pneumatic Sensor, Male/Female BSPP Thread

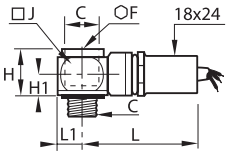
Technical polymer, zamak, brass, NBR



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

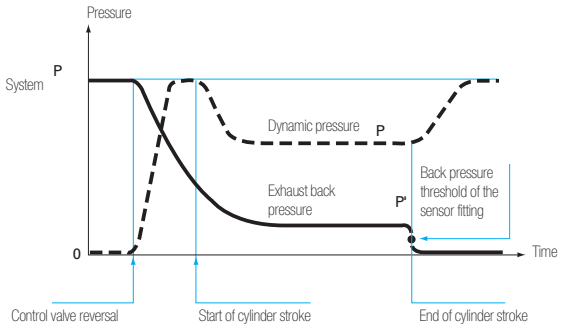
7828 Pneumatic/Electric Sensor, Male/Female BSPP and Metric Thread

Technical polymer, brass, NBR



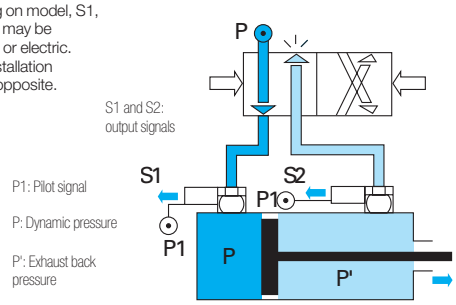
C		F	H	H1	J	L	L1	kg
M5x0.8	7828 00 19	8	20	10	11	49	5.5	0.120
G1/8	7828 00 10	6	20	10	16	52	8	0.131
G1/4	7828 00 13	8	20	10	21	54	10.5	0.145
G3/8	7828 00 17	10	22	12	28	57	14	0.182
G1/2	7828 00 21	12	26	14	33	58	16.5	0.206

Cylinder Pressure Cycle



Installation Diagram

Depending on model, S1, S2 and P1 may be pneumatic or electric. See the installation diagrams opposite.



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

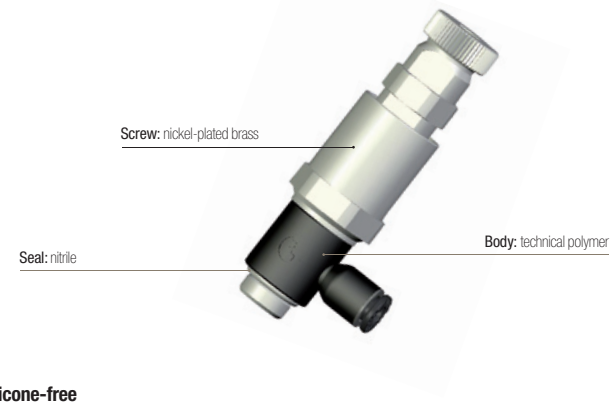
Robotics
Textile
Semi-Conductors
Packaging
Pneumatics

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	Upstream pressure: 1 to 16 bar Downstream pressure: 1 to 8 bar
Working Temperature	-10°C to +70°C

Max. Tightening Torques	Threads	G1/8	G1/4	G3/8
	daN.m	0.4	0.5	0.6

Component Materials



Silicone-free

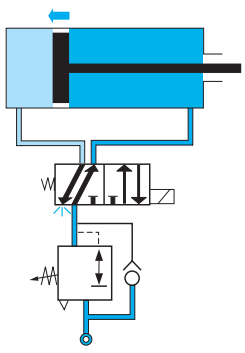
Regulations

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

Operation

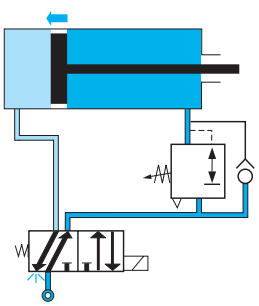
Mounting Upstream of the Control Valve

Adjustment of the piston feed pressure in both directions

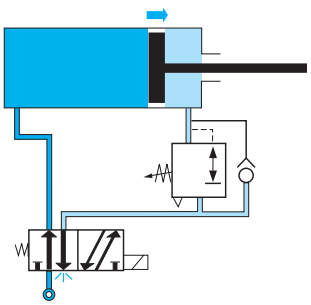


Mounting Downstream of the Control Valve

Phase 1: adjustment of the piston speed in a single direction



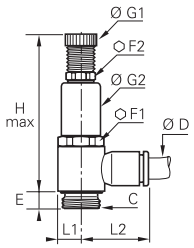
Phase 2: in return direction, pressure is supplied through the control valve



Pressure Regulators

7300 Pressure Regulator, Male BSPP Thread

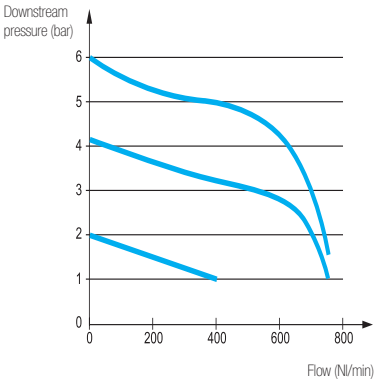
Technical polymer, nickel-plated brass, NBR



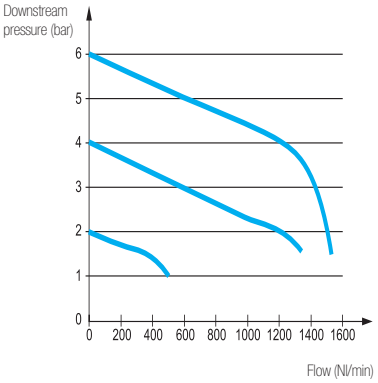
ØD	C		E	F1	F2	G1	G2	H max	L1	L2	kg
4	G1/8	7300 04 10	4.5	17	13	14	17	65	7	18.5	0.047
6	G1/8	7300 06 10	4.5	17	13	14	17	65	7	20	0.047
	G1/4	7300 06 13	7.5	17	13	14	17	74.5	9.5	22	0.065
8	G1/8	7300 08 10	4.5	17	13	14	17	65	7	25	0.048
	G1/4	7300 08 13	7.5	17	13	14	17	74.5	9.5	27	0.066
	G3/8	7300 08 17	8.5	22	17	18.5	22	84	11.5	28.5	0.121
10	G1/4	7300 10 13	7.5	17	13	14	17	74.5	9.5	29	0.067
	G3/8	7300 10 17	8.5	22	17	18.5	22	84	11.5	30.5	0.122

Flow Characteristics at 7 bar (Nl/min)

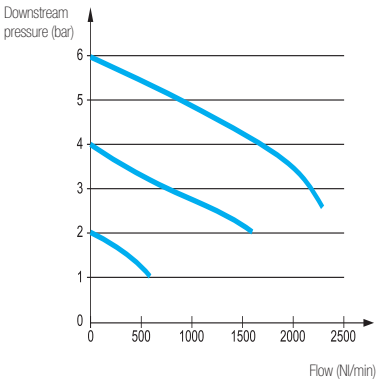
G1/8 Models



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

Applications

Robotics
Textile
Semi-Conductors
Packaging
Pneumatics

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	1 to 8 bar
Working Temperature	-15°C to +60°C

Max. Tightening Torques for Models 7318 and 7471	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)

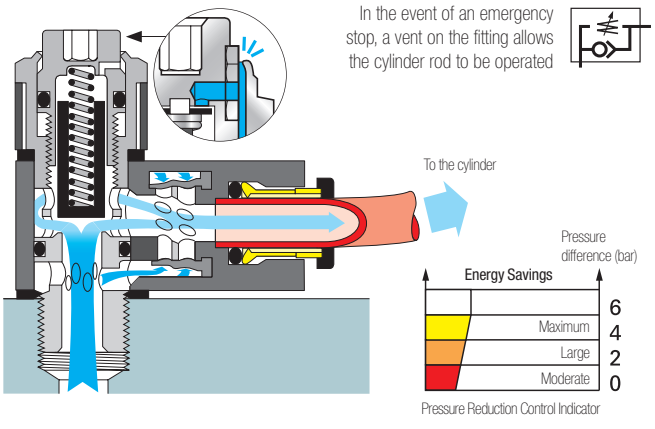
Component Materials

Internal seals: NBR

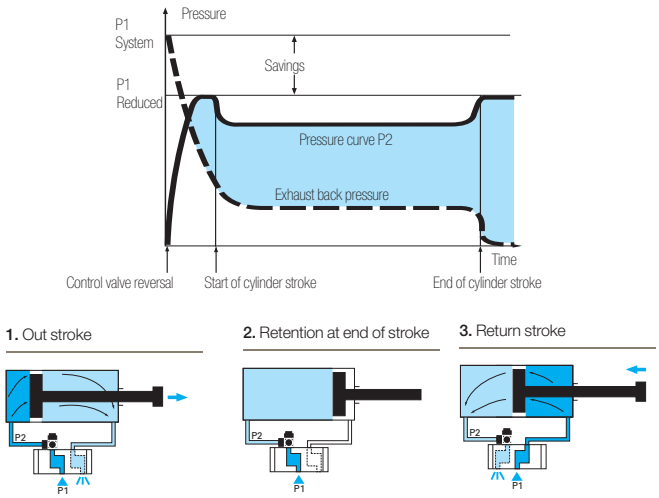
Silicone-free

Operation

Installation Diagram

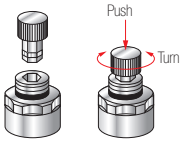


Cylinder Pressure Cycle

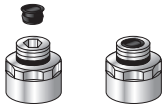


Manual Adjustment

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.

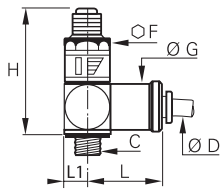


This may be removed if necessary as follows:
1. Pierce the centre
2. Remove the plug

Pressure Reducers

7318 Banjo Pressure Reducer, Male BSPP Thread

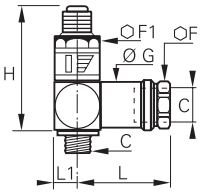
Zamak, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
6	G1/8	7318 06 10	19	20	49	57	43	10.5	0.137
	G1/4	7318 06 13	19	20	49	57	43	10.5	0.137
8	G1/4	7318 08 13	19	20	49	57	40	10.5	0.134
10	G1/4	7318 10 13	27	20	55	64	50	14	0.251
	G3/8	7318 10 17	27	26	55	94	50	14	0.253

7471 Banjo Pressure Reducer, Male/Female BSPP Thread

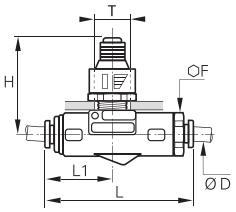
Zamak, nickel-plated brass, NBR



C		F	F1	G	H min	H max	L	L1	kg
G1/8	7471 10 10	19	19	20	49	57	45	10.5	0.158
G1/4	7471 13 13	19	19	20	49	57	45	10.5	0.149
G3/8	7471 17 17	24	27	26	55	64	56	14	0.290
G1/2	7471 21 21	30	30	31	75	86	63	16.5	0.502

7316 In-Line Tube-to-Tube Pressure Reducer

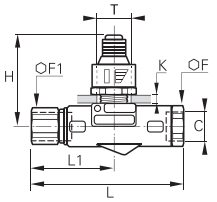
Nickel-plated brass, NBR



ØD		F	H min	H max	L	L1	ØT	kg
6	7316 06 00	22	49	57	74	32	18.5	0.212
8	7316 08 00	22	49	57	71	32	18.5	0.200
10	7316 10 00	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 min	H max	K	L	L1	ØT	kg
G1/8	7416 10 10	17	19	49	57	4	74	35	18.5	0.212
G1/4	7416 13 13	17	19	49	57	4	83	44	18.5	0.214
G3/8	7416 17 17	22	27	61	70	5	90	44	22.5	0.401
G1/2	7416 21 21	27	30	75	86	7	119	61	22.5	0.651

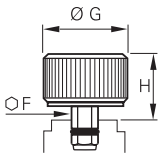
7000 Sealing Plug for Pressure Reducer

Technical polymer

	G	kg
7000 00 01	8	0.001

7000 Manual Ratchet Control for Pressure Reducer

Nickel-plated brass, NBR



	F	G	H	kg
7000 00 00	6	22	15	0.040

Function Fittings

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

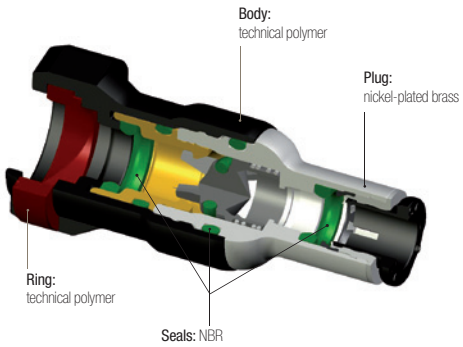
Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	0 to 10 bar
Working Temperature	-20°C to +80°C
Flow Characteristics at 6 bar	DN 5 mm: 1000 Nl/min DN 7 mm: 1900 Nl/min

Regulations

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

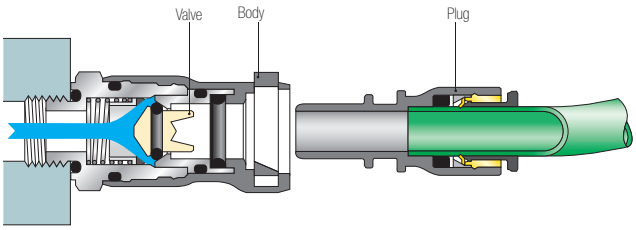
Component Materials



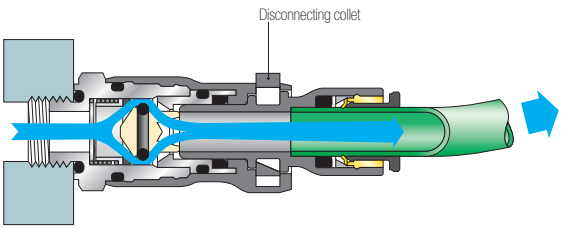
Silicone-free

Operation

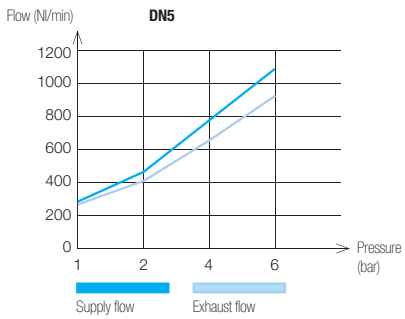
Circuit Closed

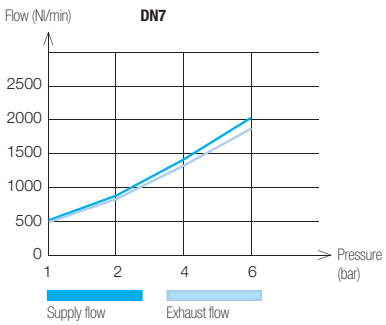


Circuit Open



Flow Characteristics - Pressure Drop

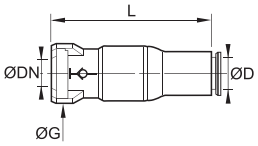




Snap Fittings

7926 Body with Push-In Connection

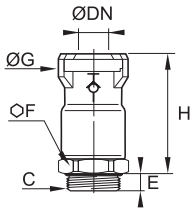
Technical polymer, nickel-plated brass, NBR



ØD	DN		G	L	kg
6	5	7926 05 06	18.5	44	0.020
8	5	7926 05 08	18.5	49	0.024
10	7.3	7926 07 10	22	58.5	0.044

7921 Body with Male BSPP Thread

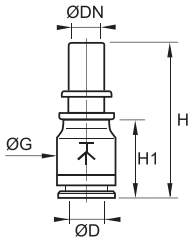
Technical polymer, nickel-plated brass, NBR



C	DN		E	F	G	H	kg
G1/8	5	7921 05 10	5.5	16	18.5	31.5	0.022
G1/4	5	7921 05 13	5.5	16	18.5	31.5	0.023
	7.3	7921 07 13	5.5	20	22	37.5	0.039
G3/8	7.3	7921 07 17	5.5	20	22	37.5	0.041

7960 Straight Probe, Push-In Connection

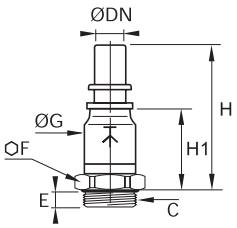
Technical polymer, NBR



ØD	DN		G	H	H1	kg
6	5	7960 05 06	13.5	36.5	17.5	0.007
8	5	7960 05 08	13.5	37	18	0.003
10	7.3	7960 07 10	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	7961 05 10	5.5	13	13.5	46	27	0.017
G1/4	5	7961 05 13	5.5	16	13.5	46	27	0.019
	7.3	7961 07 13	5.5	16	16	51.5	31	0.025
G3/8	7.3	7961 07 17	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)

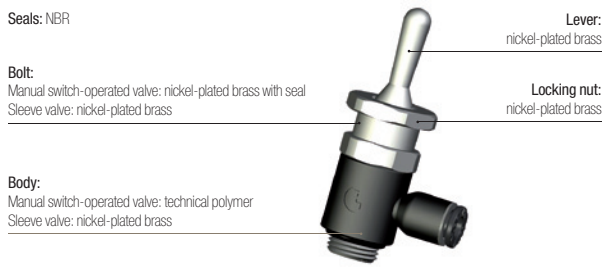
Applications

Robotics
Conveyors
Textile
Plastics Engineering
Printing
Pneumatics
Packaging

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	0 to 10 bar Model 0669: 0 to 16 bar
Working Temperature	-10°C to +80°C Model 0669: -5°C to +70°C

Component Materials



Silicone-free

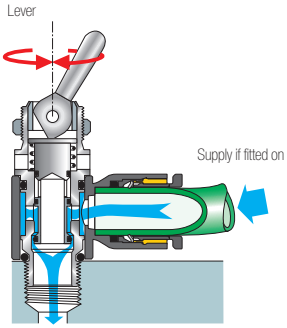
Regulations

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

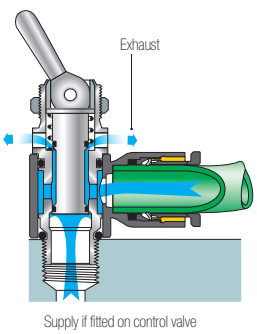
Operation

Switch-Operated Valves

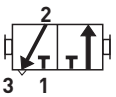
Open



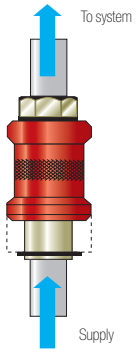
Closed



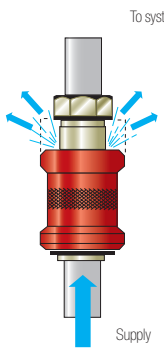
Sleeve Valves



Open: downstream supply



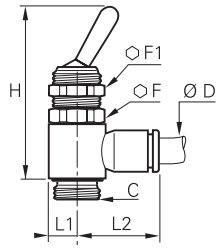
Closed: downstream exhaust



Manually-Operated Valves

7800 3/2 Manual Switch-Operated Valve, Supply, Male BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR

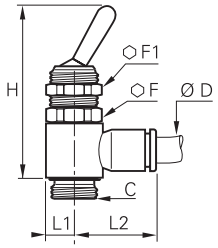


ØD	C		F	F1	H	L1	L2	kg
4	M5x0.8	7800 04 19	14	14	42	7	18.5	0.008
	G1/8	7800 04 10	14	14	43	7	18.5	0.022
6	M5x0.8	7800 06 19	14	14	42	7	18.5	0.009
	G1/8	7800 06 10	14	14	43	7	20	0.023
	G1/4	7800 06 13	17	14	50.5	9	22	0.048
8	G1/8	7800 08 10	14	14	43	7	25	0.023
	G1/4	7800 08 13	17	14	50.5	9	27	0.048
10	G1/4	7800 10 13	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

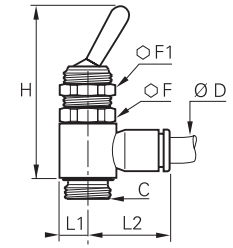
Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	H	L1	L2	kg
4	G1/8	7801 04 10	14	14	43	7	18.5	0.023
6	G1/8	7801 06 10	14	14	43	7	20	0.023
	G1/4	7801 06 13	17	14	50.5	9	22	0.048
8	G1/8	7801 08 10	14	14	43	7	25	0.026
	G1/4	7801 08 13	17	14	50.5	9	27	0.049
10	G1/4	7801 10 13	17	14	50.5	9	29	0.051

7802 2/2 Manual Switch-Operated Valve, Male BSPP Thread

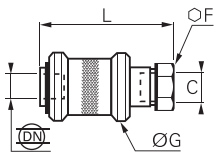
Technical polymer, nickel-plated brass, NBR



ØD	C		F	F1	H	L1	L2	kg
4	G1/8	7802 04 10	14	14	43	7	18.5	0.023
6	G1/8	7802 06 10	14	14	43	7	20	0.024
	G1/4	7802 06 13	17	14	50.5	9	22	0.050
8	G1/8	7802 08 10	14	14	43	7	25	0.024
	G1/4	7802 08 13	17	14	50.5	9	27	0.052
10	G1/4	7802 10 13	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	0669 02 19	10	14	30.5	0.012
G1/8	4	0669 04 10	14	25	48	0.050
G1/4	7	0669 07 13	19	30	58	0.096
G3/8	10	0669 10 17	22	35	68	0.154
G1/2	14	0669 14 21	27	40	75	0.210
G3/4	19	0669 19 27	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

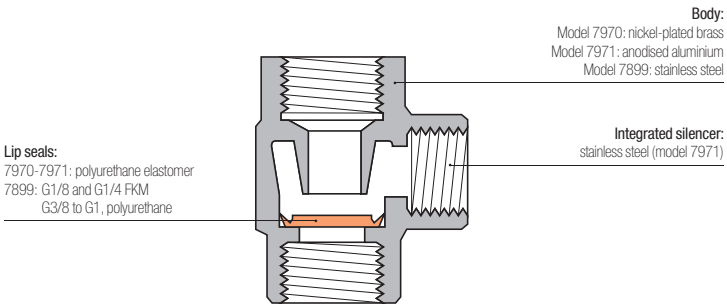
Applications

Robotics
Conveyors
Textile
Plastics Engineering
Printing
Pneumatics
Packaging

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	**7970:** 0.7 to 10 bar **7971 and 7899:** 2 to 10 bar
Working Temperature	**7970:** -20°C to +70°C **7971:** -10°C to +70°C **7899**: Threads G1/8 and G1/4: -10°C to +120°C Threads G3/8 to G1: -20°C to +180°C

Component Materials



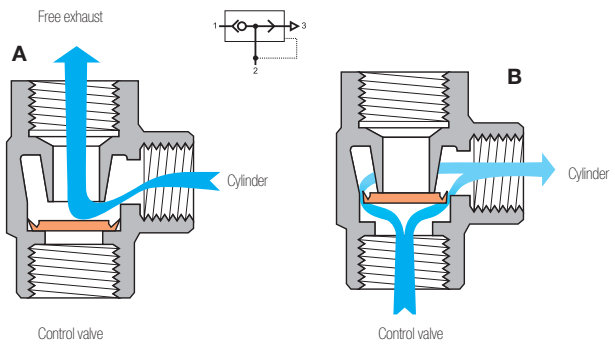
Silicone-free

Regulations

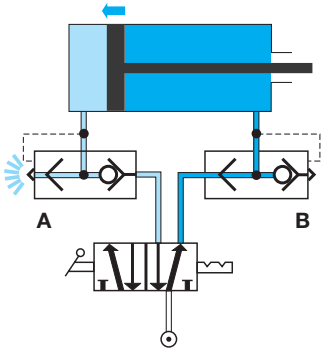
DI: 2002/95/EC (RoHS)
RG: 1907/2006 (REACH)
DI: 97/23/EC (PED)

Operation

Mounted on Cylinder



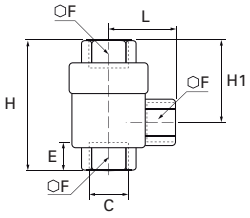
Installation Diagram



Metal Quick Exhaust Valves

7970 Elbow Quick Exhaust Valve, Female BSPP and Metric Thread

Nickel-plated brass

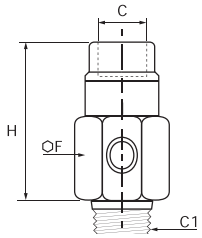


C		E	F	H	H1	L	kg
M5x0.8	7970 19 19	5	10	24.8	15.6	4	0.028
G1/8	7970 10 10	7.5	14	42	28	8	0.084
G1/4	7970 13 13	11	19	53	34.5	11	0.146
G3/8	7970 17 17	12	21	58	36	12	0.149
G1/2	7970 21 21	14	26	71	44	14	0.314
G3/4	7970 27 27	16	32	86	52	18	0.449
G1	7970 34 34	19	38	94	56	19	0.530

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

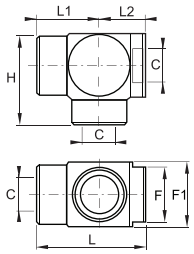
Treated aluminium



C	C1		F	H	kg
G1/8	R1/8	7971 10 10	18	51	0.013
G1/4	R1/4	7971 13 13	18	49	0.018
G3/8	R3/8	7971 17 17	27	56	0.048
G1/2	R1/2	7971 21 21	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	7899 00 10	17	22	31.5	37.5	21	16.5	0.097
G1/4	7	7899 00 13	17	22	31.5	37.5	21	16.5	0.083
G3/8	9	7899 00 17	22	26	37	44.5	25.5	19	0.139
G1/2	12	7899 00 21	27	32	45	54	31	23	0.240
G3/4	18	7899 00 27	38	46	65	79	44	35	0.795
G1	18	7899 00 34	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.

Function Fittings

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

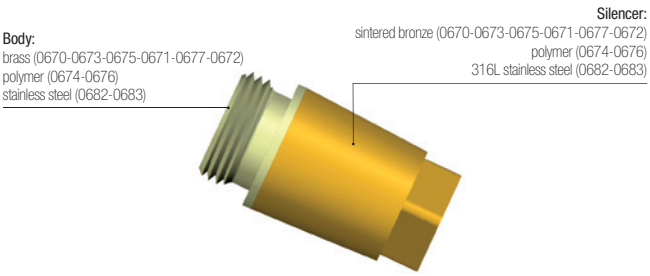
Applications

Robotics
Textile
Semi-Conductors
Packaging
Pneumatics

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	Polyethylene: 0 to 10 bar Sintered bronze: 0 to 12 bar 316L stainless steel: 0 to 12 bar
Working Temperature	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 Nl/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

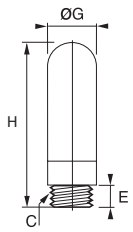
0676

	Number of Turns										Noise Level in dBA at 6 bar and 350 Nl/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

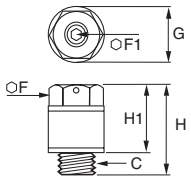
Technical polymer



C		E	G	H	kg
M5x0.8	0674 00 19	4	6.5	23	0.003
G1/8	0674 00 10	6	12.5	34	0.002
G1/4	0674 00 13	7	15.5	42.5	0.003
G3/8	0674 00 17	11.5	18.5	67.5	0.007
G1/2	0674 00 21	11	23.5	78	0.010
G3/4	0674 00 27	15.5	38.5	131	0.035
G1	0674 00 34	19.5	49	160	0.056

0676 Flow Control Polymer Silencer, Male BSPP and Metric Thread

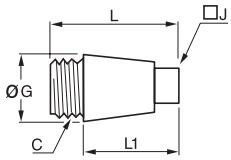
Technical polymer



C		F	F1	G	H	H1	kg
M5x0.8	0676 00 19	8	1.5	9.2	16	11	0.008
G1/8	0676 00 10	13	2.5	15	20.5	14.5	0.003
G1/4	0676 00 13	15	4	18	29	22	0.007
G3/8	0676 00 17	20	6	24	38	30	0.018
G1/2	0676 00 21	25	8	30	50	40	0.045

0670 Threaded Silencer, Male BSPP Thread

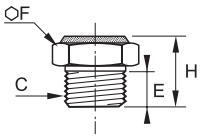
Sintered bronze, brass



C		G	J	L	L1	kg
G1/8	0670 00 10	12	7	22	17	0.007
G1/4	0670 00 13	15	9	27	21	0.015
G3/8	0670 00 17	19	11	35	28	0.028
G1/2	0670 00 21	23	13	43	34	0.049
G3/4	0670 00 27	30	17	55	45	0.091
G1	0670 00 34	37	21	65	53	0.152

0673 Compact Silencer, Male BSPP and Metric Thread

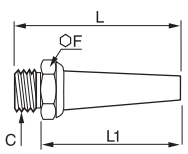
Sintered bronze, brass



C		E	F	H	kg
M5x0.8	0673 00 19	4	7	8	0.001
G1/8	0673 00 10	8	14	14	0.008
G1/4	0673 00 13	8	17	14	0.012
G3/8	0673 00 17	10	22	18	0.020
G1/2	0673 00 21	12	27	21	0.042

0675 Threaded Silencer, Male BSPP and Metric Thread

Sintered bronze, brass

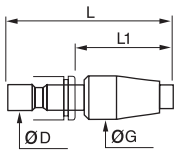


C		F	L	L1	kg
M5x0.8	0675 00 19	7	16	12	0.002
M7x1	0675 00 55	11	25	19	0.005
G1/8	0675 00 10	14	42	34	0.014
G1/4	0675 00 13	17	52	44	0.022
G3/8	0675 00 17	22	54	44	0.037
G1/2	0675 00 21	27	65	53	0.072

Silencers

0671 Push-In Silencer

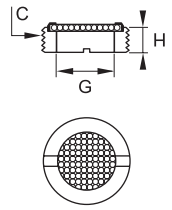
Sintered bronze, nickel-plated brass



ØD		G	L	L1	kg
4	0671 04 00	13	41.5	24.5	0.015
6	0671 06 00	15	48	29	0.024
8	0671 08 00	15	49.5	29.5	0.025
10	0671 10 00	19.5	68	43.5	0.052
12	0671 12 00	20	68.5	43	0.052

0677 Miniature Silencer, Male BSPP Thread

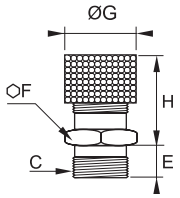
Brass



C		G	H	kg
G1/8	0677 00 10	6	6	0.002
G1/4	0677 00 13	8	6	0.003
G3/8	0677 00 17	11	7	0.006
G1/2	0677 00 21	14	8	0.010
G3/4	0677 00 27	19	11	0.019
G1	0677 00 34	25	10	0.025

0672 Flow Control Silencer, Male BSPP Thread

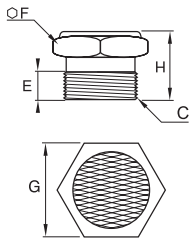
Sintered bronze, nickel-plated brass



C		E	F	G	H min	H max	kg
G1/8	0672 00 10	8	14	14	17	21	0.017
G1/4	0672 00 13	8	17	17	20	24	0.029
G3/8	0672 00 17	10	22	22	20	28	0.058
G1/2	0672 00 21	12	27	27	28	37	0.094

0682 Compact Silencer, Male BSPP Thread

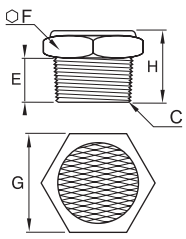
Stainless steel 316L



C		E	F	G	H	kg
G1/8	0682 00 10	8	7	14	15	0.007
G1/4	0682 00 13	8	7	17	15	0.011
G3/8	0682 00 17	10	8	22	18	0.019
G1/2	0682 00 21	12	10	27	22	0.038
G3/4	0682 00 27	15	12	32	27	0.063
G1	0682 00 34	18	14	38	32	0.117

0683 Compact Silencer, Male NPT Thread

Stainless steel 316L



C		E	F	G	H	kg
NPT1/8	0683 00 11	7	7	14	14	0.007
NPT1/4	0683 00 14	11	7	17	18	0.014
NPT3/8	0683 00 18	11	8	22	19	0.021
NPT1/2	0683 00 22	15	10	27	25	0.043

Function Fittings

Compression Fittings

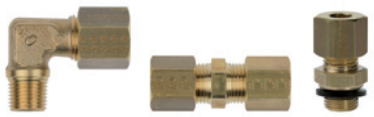
Brass Compression Fittings

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

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

Suffix
39: bonded seal
40: treated steel
60: nut
70: polymer nut
99: chemical nickel

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

0105 BSPT — Page 5-9
0105 NPT — Page 5-9
0101 BSPP/Metric — Page 5-10
0101..39 BSPP — Page 5-10
0101 Metric — Page 5-11
0114 BSPP — Page 5-11
0109 BSPT — Page 5-12
0109 NPT — Page 5-12

0199 BSPP — Page 5-12
0108 BSPT — Page 5-13
0103 BSPT — Page 5-13
0118 BSPP — Page 5-14
0118..39 BSPP — Page 5-14
0119 BSPP — Page 5-15
0119..39 BSPP — Page 5-15

Tube-to-Tube Fittings

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0113 Page 5-16
0116 Page 5-16
0102 Page 5-16
0104 Page 5-17
0142 Page 5-17
0107 Page 5-17

Complementary Fittings

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0124 Page 5-21
0124..40 Page 5-21
0111 Page 5-21
0110 Page 5-22
0110..40 Page 5-22
0110..60 Page 5-22
0110..70 Page 5-22

Self-Fastening Hose Barb Connectors

0132 Page 5-25
0133..39 Page 5-25
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Accessories

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0165 Page 5-26
0126 Page 5-27
0125 Page 5-27
0220 Page 5-27
0220..39 Page 5-27
0120 Page 5-28
0112 Page 5-28
0128..39 Page 5-29
0151..39 Page 5-29
0168..39 Page 5-29

0127 Page 5-30

Brass Compression Fittings

These **"universal"** fittings provide users with **numerous connection** options for a wide variety of tube materials without the need for tube threading or soldering. This range **guarantees** excellent long-term sealing and performance.

Product Advantages

Simple to Install and Use

- Suitable for pneumatic and medium pressure hydraulic applications
- Compatible with many industrial fluids
- Large product range: 22 configurations
- Excellent sealing due to the tightening of the olive onto the tube
- Metallic sealing guarantees maximum service life
- High strength brass for increased mechanical reliability

Wide Variety of Tubing

- Connection of different types of tubing and hose: metal, polymer, steel, rubber, etc.
- Multiple tube diameters can be connected using the Parker Legris reducer assembly system
- No insert required for rigid and semi-rigid polyamide tubing below 14 mm

Applications

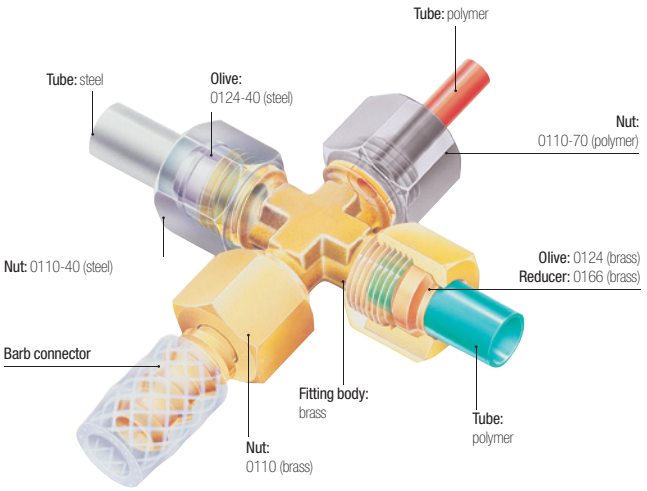
Pneumatics
Cooling
Automotive Process
Lubrication
Fluid Transmission
Packaging
Industrial Machinery

Technical Characteristics

Compatible Fluids	Water, machining oil, fuel, hydraulic oil, compressed air, chemical fluids, disinfectants
Working Pressure	Vacuum to 550 bar
Working Temperature	-40°C to +250°C
Tightening Torque	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

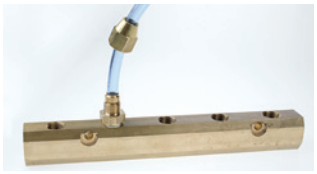
Cut the polymer or metal tube square.

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.

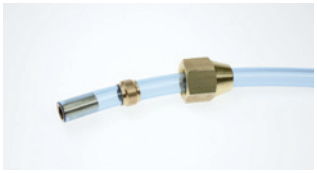
Connecting the Tube



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

Final Assembly

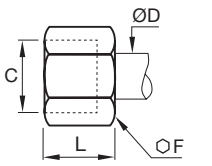
Tighten the nut using a spanner or torque wrench to enable the olive to bite on the tube, the connection being completed when the recommended tightening torque is reached (see tables below).



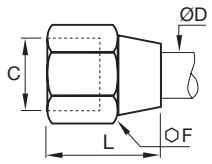
It is recommended to use an insert in order to prevent tube creeping (diameter > 14mm)

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)	⬡ F 0110	⬡ F 0110..60	Max. daN.m Copper or Brass	⬡ 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.

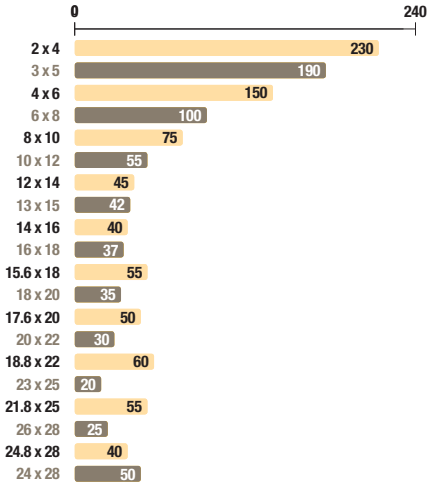
Recommended Tube-Fitting Assembly Configurations

Assembled using Parker Legris brass olive and nut.

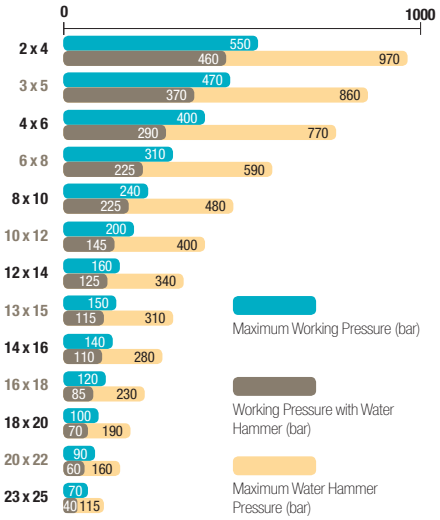
Assembled using Parker Legris steel olive and nut (nut type 0110..40).

Assembled using Parker Legris brass olive and nut.

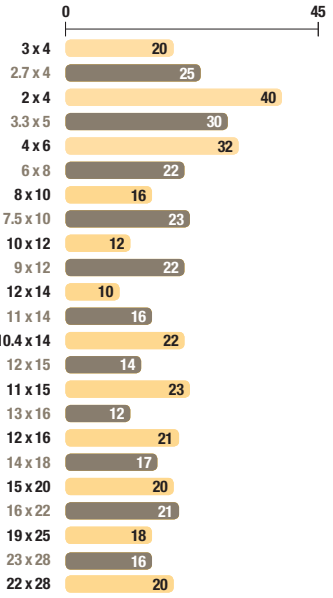
Copper Tube
Maximum Working Pressure (bar)



Steel Tube
Maximum Working Pressure (bar)



Parker Legris Semi-Rigid Polyamide Tube
Maximum Working Pressure (bar)



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

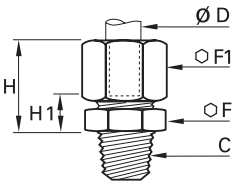
Parker Legris brass compression fittings are not compatible with ammonia and its derivatives.

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

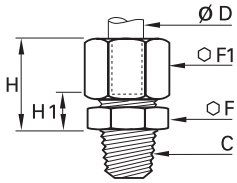


ØD	C		F	F1	H max	H1	kg
4	R1/8	0105 04 10	10	10	17	7	0.012
5	R1/8	0105 05 10	11	12	17.5	7.5	0.016
	R1/4	0105 05 13	14	12	17.5	7.5	0.022
6	R1/8	0105 06 10	11	13	18	7.5	0.017
	R1/4	0105 06 13	14	13	18	7.5	0.024
	R3/8	0105 06 17	17	13	18	8.5	0.031
8	R1/8	0105 08 10	13	14	19.5	7	0.020
	R1/4	0105 08 13	14	14	19.5	7	0.025
	R3/8	0105 08 17	17	14	20.5	8	0.032
10	R1/8	0105 10 10	17	19	24	9	0.043
	R1/4	0105 10 13	17	19	24	9	0.047
	R3/8	0105 10 17	17	19	24	9	0.048
	R1/2	0105 10 21	22	19	25	10	0.067
12	R1/4	0105 12 13	19	22	24	9	0.059
	R3/8	0105 12 17	19	22	24	9	0.060
	R1/2	0105 12 21	22	22	25	10	0.076
14	R1/4	0105 14 13	22	24	25	8	0.068
	R3/8	0105 14 17	22	24	25	8	0.068
	R1/2	0105 14 21	22	24	26	9	0.080
	R3/4	0105 14 27	27	24	27	10	0.107
15	R3/8	0105 15 17	22	24	25	8	0.065
	R1/2	0105 15 21	22	24	26	9	0.076
16	R1/4	0105 16 13	24	27	27	9.5	0.092
	R3/8	0105 16 17	24	27	27	9.5	0.092
	R1/2	0105 16 21	24	27	27	9.5	0.099
	R3/4	0105 16 27	27	27	28	10.5	0.123
18	R1/2	0105 18 21	27	30	30	10.5	0.127
	R3/4	0105 18 27	27	30	30	10.5	0.138
20	R1/2	0105 20 21	30	32	32	11	0.148
	R3/4	0105 20 27	30	32	32	11	0.157
22	R1/2	0105 22 21	32	36	33	11	0.187
	R3/4	0105 22 27	32	36	33	11	0.196
	R1	0105 22 34	36	36	33	11	0.227
25	R3/4	0105 25 27	36	41	36	11	0.261
	R1	0105 25 34	36	41	36	11	0.278
28	R3/4	0105 28 27	41	42	36	11	0.274
	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

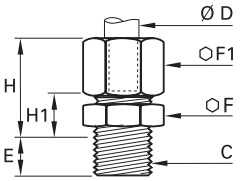


ØD	C		F	F1	H max	H1	kg
6	NPT1/8	0105 06 11	11	13	18	7.5	0.018
	NPT1/4	0105 06 14	14	13	18	7.5	0.027
8	NPT1/8	0105 08 11	13	14	21	7	0.021
	NPT1/4	0105 08 14	14	14	18.5	7	0.026
10	NPT1/4	0105 10 14	17	19	24	9	0.048
	NPT3/8	0105 10 18	17	19	24	9	0.048
	NPT1/2	0105 10 22	22	19	25	10	0.066

Brass Compression Fittings

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

Brass, technical polymer

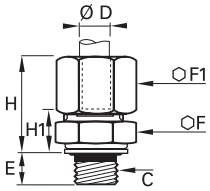


ØD	C		E	F	F1	H max	H1	kg
4	M5x0.8	0101 04 19	5	10	10	16.5	8	0.011
	G1/8	0101 04 10	6.5	13	10	16.5	8	0.016
5	G1/8	0101 05 10	6.5	13	12	17.5	8.5	0.018
6	G1/8	0101 06 10	6.5	13	13	18	8.5	0.020
	G1/4	0101 06 13	8	17	13	18	9.5	0.030
8	G1/8	0101 08 10	6.5	13	14	19	8.5	0.021
	G1/4	0101 08 13	8	17	14	19.5	9	0.032
	G3/8	0101 08 17	11	22	14	20	10.5	0.044
10	G1/4	0101 10 13	8	17	19	24	11	0.049
	G3/8	0101 10 17	11	22	19	24	11.5	0.061
12	G1/4	0101 12 13	8	19	22	24	11	0.062
	G3/8	0101 12 17	11	22	22	24	11.5	0.069
	G1/2	0101 12 21	12	27	22	24	12	0.089
14	G3/8	0101 14 17	11	22	24	25	10.5	0.074
	G1/2	0101 14 21	12	27	24	25	11	0.094
15	G3/8	0101 15 17	11	22	24	25	10.5	0.071
	G1/2	0101 15 21	12	27	24	25	11	0.093
16	G3/8	0101 16 17	11	22	27	27	12	0.092
	G1/2	0101 16 21	12	27	27	27	12.5	0.109
18	G1/2	0101 18 21	12	27	30	29.5	12.5	0.128
	G3/4	0101 18 27	13	32	30	29.5	13	0.152
20	G3/4	0101 20 27	13	32	32	31	13	0.164
22	G3/4	0101 22 27	13	32	36	32	13	0.195
	G1	0101 22 34	15	41	36	31	13.5	0.259
25	G3/4	0101 25 27	13	36	41	35.5	13	0.261
	G1	0101 25 34	15	41	41	35.5	13	0.169
28	G1	0101 28 34	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



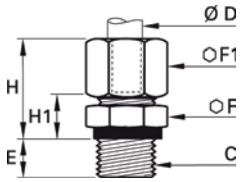
ØD	C		E	F	F1	H max	H1	kg
4	G1/8	0101 04 10 39	5.5	13	10	17.5	9	0.016
5	G1/8	0101 05 10 39	5.5	13	12	18.5	9.5	0.019
6	G1/8	0101 06 10 39	5.5	13	13	19	9.5	0.020
	G1/4	0101 06 13 39	7	17	13	19	10.5	0.030
8	G1/8	0101 08 10 39	5.5	13	14	20	9.5	0.022
	G1/4	0101 08 13 39	7	17	14	20.5	10	0.032
	G3/8	0101 08 17 39	9.5	22	14	21.5	12	0.045
10	G1/4	0101 10 13 39	7	17	19	25	12	0.048
	G3/8	0101 10 17 39	9.5	22	19	25.5	13	0.062
12	G1/4	0101 12 13 39	7	19	22	25	12	0.063
	G3/8	0101 12 17 39	9.5	22	22	25	13	0.071
	G1/2	0101 12 21 39	10.5	27	22	25	13.5	0.091
14	G3/8	0101 14 17 39	9.5	22	24	26.5	12	0.075
	G1/2	0101 14 21 39	10.5	27	24	26.5	12.5	0.095
15	G3/8	0101 15 17 39	9.5	22	24	26.5	12	0.073
	G1/2	0101 15 21 39	10.5	27	24	26.5	12.5	0.095
16	G3/8	0101 16 17 39	9.5	22	27	28.5	13.5	0.092
	G1/2	0101 16 21 39	10.5	27	27	28.5	14	0.111
18	G1/2	0101 18 21 39	10.5	27	30	31	14	0.129
	G3/4	0101 18 27 39	11.5	32	30	31	14.5	0.155
20	G3/4	0101 20 27 39	11.5	32	32	32.5	14.5	0.164
22	G3/4	0101 22 27 39	11.5	32	36	32.5	14.5	0.197
	G1	0101 22 34 39	13	41	36	33	15.5	0.259
25	G1	0101 25 34 39	13	41	41	37.5	15.5	0.309
28	G1	0101 28 34 39	13	41	42	37.5	15.5	0.301

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

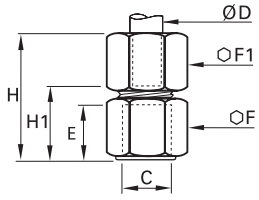
Brass



ØD	C		E	F	F1	H max	H1	kg
4	M7x1	0101 04 55	6.5	10	10	16.5	7.5	0.012
	M8x1	0101 04 56	6.5	11	10	16.5	7.5	0.013
5	M8x1	0101 05 56	6.5	11	12	17.5	8	0.016
	M10x1	0101 05 60	6.5	14	12	17.5	8.5	0.020
6	M10x1	0101 06 60	6.5	14	13	18	8.5	0.021
	M10x1.5	0101 06 62	6.5	14	13	18	8.5	0.021
8	M12x1	0101 08 65	8	17	14	19.5	9	0.029
	M12x1.25	0101 08 66	8	17	14	19.5	9	0.029
	M13x1.25	0101 08 68	8	17	14	19.5	9	0.030
10	M14x1.25	0101 10 70	8	17	19	24	11	0.047
	M14x1.5	0101 10 71	8	17	19	24	11	0.047
	M16x1.25	0101 10 74	9	19	19	24	11	0.051
	M16x1.5	0101 10 75	9	19	19	24	11	0.051
	M18x1.5	0101 10 78	9	22	19	24	11.5	0.060
12	M16x1.25	0101 12 74	9	19	22	24	11	0.061
	M16x1.5	0101 12 75	9	19	22	24	11	0.061
	M18x1.5	0101 12 78	9	22	22	24	11.5	0.070
14	M18x1.5	0101 14 78	9	22	24	25	10.5	0.077
	M20x1.5	0101 14 80	10	24	24	25	11	0.084
15	M18x1.5	0101 15 78	9	22	24	25	10.5	0.071
16	M20x1.5	0101 16 80	10	24	27	27	12.5	0.102
	M22x1.5	0101 16 82	10	27	27	27	12.5	0.111
18	M22x1.5	0101 18 82	10	27	30	29.5	12.5	0.129
	M24x1.5	0101 18 83	11	30	30	29.5	13	0.142

0114 Stud Fitting, Female BSPP Thread

Brass

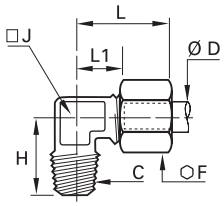


ØD	C		E	F	F1	H max	H1	kg
4	G1/8	0114 04 10	9.5	14	10	26	16.5	0.020
	G1/4	0114 04 13	13.5	17	10	30	20.5	0.030
5	G1/8	0114 05 10	9.5	14	12	28	17	0.023
	G1/4	0114 05 13	13.5	17	12	31	21	0.033
6	G1/8	0114 06 10	9.5	14	13	28	17	0.025
	G1/4	0114 06 13	13.5	17	13	32	21	0.034
	G3/8	0114 06 17	14	22	13	32	21.5	0.051
8	G1/8	0114 08 10	9.5	14	14	29	16.5	0.026
	G1/4	0114 08 13	13.5	17	14	33	20.5	0.036
	G3/8	0114 08 17	14	22	14	34	21	0.052
10	G1/4	0114 10 13	13.5	17	19	37	21.5	0.052
	G3/8	0114 10 17	14	22	19	37	22	0.068
	G1/2	0114 10 21	18.5	27	19	42	26.5	0.099
12	G1/4	0114 12 13	13.5	19	22	36	20.5	0.069
	G3/8	0114 12 17	14	22	22	37	22	0.078
	G1/2	0114 12 21	18.5	27	22	42	26.5	0.109
14	G1/4	0114 14 13	13.5	22	24	36	18.5	0.085
	G3/8	0114 14 17	14	22	24	38	21	0.048
	G1/2	0114 14 21	18.5	27	24	43	25.5	0.113
15	G3/8	0114 15 17	14	22	24	38	21	0.078
	G1/2	0114 15 21	18.5	27	24	43	25.5	0.109
16	G1/4	0114 16 13	13.5	24	27	36	18	0.107
	G3/8	0114 16 17	14	24	27	38	20.5	0.106
	G1/2	0114 16 21	18.5	27	27	44	26	0.127
18	G3/8	0114 18 17	14	27	30	39	19.5	0.140
	G1/2	0114 18 21	18.5	27	30	45	26	0.144
	G3/4	0114 18 27	19.5	32	30	46	27	0.165
20	G3/8	0114 20 17	14	30	32	38	18	0.161
	G1/2	0114 20 21	18.5	30	32	44.5	24	0.173
	G3/4	0114 20 27	19.5	32	32	47	26.5	0.170
22	G3/4	0114 22 27	19.5	32	36	48	26.5	0.204
25	G3/4	0114 25 27	19.5	36	41	50.5	26	0.297

Brass Compression Fittings

0109 Stud Elbow, Male BSPT Thread

Brass

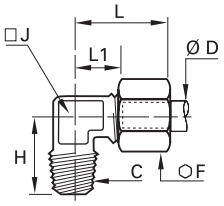


ØD	C		F	H	J	L max	L1	kg
4	R1/8	0109 04 10	10	17	8	19	9.5	0.016
	R1/4	0109 04 13	10	20	10	19	11	0.026
5	R1/8	0109 05 10	12	17.5	8	21	11	0.019
	R1/4	0109 05 13	12	21.5	10	22	12	0.028
6	R1/8	0109 06 10	13	18	8	22	11	0.021
	R1/4	0109 06 13	13	21.5	10	22	12	0.031
8	R1/8	0109 08 10	14	18.5	10	28	15	0.028
	R1/4	0109 08 13	14	22	10	28	15	0.033
	R3/8	0109 08 17	14	24	12	28	15	0.044
10	R1/4	0109 10 13	19	25	12	30	14.5	0.052
	R3/8	0109 10 17	19	25.5	12	30	14.5	0.060
	R1/2	0109 10 21	19	32	19	36	21	0.109
12	R1/4	0109 12 13	22	26	15	30	15	0.074
	R3/8	0109 12 17	22	27	15	30	15	0.077
	R1/2	0109 12 21	22	32	19	36	21	0.116
14	R3/8	0109 14 17	24	30	19	35	18	0.105
	R1/2	0109 14 21	24	32	19	35	18	0.112
15	R3/8	0109 15 17	24	30	19	35	18	0.099
	R1/2	0109 15 21	24	32	19	35	18	0.106
16	R3/8	0109 16 17	27	30	19	39	21	0.120
	R1/2	0109 16 21	27	33.5	19	39	21	0.130
	R3/4	0109 16 27	27	36.5	23	41	23	0.189
18	R1/2	0109 18 21	30	35.5	23	41	21.5	0.182
	R3/4	0109 18 27	30	36.5	23	41	21.5	0.199
20	R1/2	0109 20 21	32	36.5	23	42	21.5	0.181
	R3/4	0109 20 27	32	38	23	42	21.5	0.200
22	R3/4	0109 22 27	36	40	27	50	30	0.288
	R1	0109 22 34	36	44	27	50	30	0.342
25	R3/4	0109 25 27	41	43	27	54	30	0.325
	R1	0109 25 34	41	44	27	54	30	0.367
28	R3/4	0109 28 27	42	46	32	54	30	0.402
	R1	0109 28 34	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

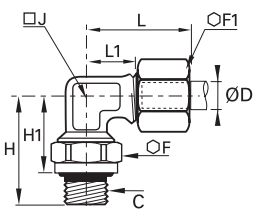
Brass



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

0199 Stud Orientable Elbow, Male BSPP Thread

Brass, NBR



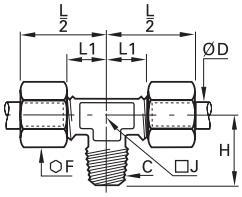
ØD	C		F	F1	H	H1	H1 max	J	L max	L1	kg
4	G1/8	0199 04 10	14	10	23	16	17	8	19	9.5	0.023
	G1/4	0199 04 13	19	10	30.5	22	23.5	10	19	11	0.043
6	G1/8	0199 06 10	14	13	23	16	17	8	22	11	0.027
	G1/4	0199 06 13	19	13	30.5	22	23.5	10	22	12	0.047
8	G1/8	0199 08 10	14	14	24	17	18	10	28	15	0.033
	G1/4	0199 08 13	19	14	30.5	22	23.5	10	28	15	0.051
	G3/8	0199 08 17	22	14	33.5	24	25.5	12	28	15	0.065
10	G1/4	0199 10 13	19	19	31	22.5	24	12	30	14.5	0.068
	G3/8	0199 10 17	22	19	33.5	24	25.5	12	30	14.5	0.079
	G1/2	0199 10 21	27	19	40	29.5	31	19	37	22	0.138
14	G3/8	0199 14 17	22	24	35.5	26	27.5	19	35	18	0.119
	G1/2	0199 14 21	27	24	40	29.5	31	19	35	18	0.141
18	G1/2	0199 18 21	27	30	40	29	30.5	23	41	21.5	0.187
	G3/4	0199 18 27	32	30	43.5	32	33.5	23	41	21.5	0.222
22	G3/4	0199 22 27	32	36	45.5	34	36	32	51	31	0.382
	G1	0199 22 34	41	36	54	40.5	43	32	51	31	0.408
28	G1	0199 28 34	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

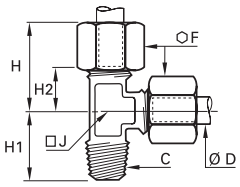


ØD	C		F	H	J	L1	L/2	kg
4	R1/8	0108 04 10	10	17	8	9.5	19	0.025
5	R1/8	0108 05 10	12	17.5	8	11	21	0.017
6	R1/8	0108 06 10	13	18	8	11	22	0.032
	R1/4	0108 06 13	13	21.5	10	16	27	0.047
8	R1/8	0108 08 10	14	18.5	10	15	28	0.045
	R1/4	0108 08 13	14	22	10	15	28	0.050
	R3/8	0108 08 17	14	24	12	15	28	0.061
10	R1/4	0108 10 13	19	25	12	14.5	30	0.084
	R3/8	0108 10 17	19	25.5	12	14.5	30	0.090
12	R1/4	0108 12 13	22	26	15	15	30	0.116
	R3/8	0108 12 17	22	27	15	15	30	0.117
14	R3/8	0108 14 17	24	30	19	18	35	0.153
	R1/2	0108 14 21	24	32	19	18	35	0.168
15	R3/8	0108 15 17	24	30	19	18	35	0.145
	R1/2	0108 15 21	24	32	19	18	35	0.155
16	R3/8	0108 16 17	27	30	19	21	39	0.190
	R1/2	0108 16 21	27	33.5	19	21	39	0.203
18	R1/2	0108 18 21	30	35.5	23	21.5	41	0.265
	R3/4	0108 18 27	30	36.5	23	21.5	41	0.292
20	R3/4	0108 20 27	32	38	23	21.5	42	0.298
22	R3/4	0108 22 27	36	40	27	29	50	0.435
	R1	0108 22 34	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



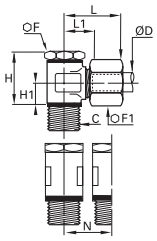
ØD	C		F	H max	H1	H2	J	kg
4	R1/8	0103 04 10	10	19	17	9.5	8	0.025
5	R1/8	0103 05 10	12	21	17.5	11	8	0.030
6	R1/8	0103 06 10	13	22	18	11	8	0.033
	R1/4	0103 06 13	13	27	21.5	16	10	0.048
8	R1/8	0103 08 10	14	28	18.5	15	10	0.045
	R1/4	0103 08 13	14	28	22	15	10	0.050
	R3/8	0103 08 17	14	28	24	15	12	0.061
10	R1/4	0103 10 13	19	30	25	14.5	12	0.084
	R3/8	0103 10 17	19	30	25.5	14.5	12	0.092
12	R1/4	0103 12 13	22	30	26	15	15	0.114
	R3/8	0103 12 17	22	30	27	15	15	0.120
14	R3/8	0103 14 17	24	35	30	18	19	0.161
	R1/2	0103 14 21	24	35	32	18	19	0.169
15	R3/8	0103 15 17	24	35	30	18	19	0.148
	R1/2	0103 15 21	24	35	32	18	19	0.158
16	R3/8	0103 16 17	27	39	30	21	19	0.192
	R1/2	0103 16 21	27	39	33.5	21	19	0.199
18	R1/2	0103 18 21	30	41	35.5	21.5	23	0.269
	R3/4	0103 18 27	30	41	36.5	21.5	23	0.282
20	R3/4	0103 20 27	32	42	38	21.5	23	0.298
22	R3/4	0103 22 27	36	50	40	29	27	0.435

Metric taper threads or 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

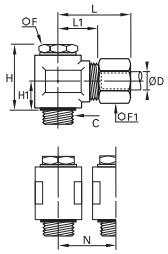


ØD	C		F	F1	H	H1	L max	L1	N	kg
4	G1/8	0118 04 10	14	10	24	9.5	24	14.5	17.5	0.038
5	G1/8	0118 05 10	14	12	24	9.5	25	14.5	17.5	0.041
	G1/4	0118 05 13	17	12	25	10	26	16	21	0.058
6	G1/8	0118 06 10	14	13	24	9.5	25	14.5	17.5	0.041
	G1/4	0118 06 13	17	13	25	10	26	16	21	0.056
8	G1/8	0118 08 10	14	14	24	9.5	28	15.5	17.5	0.054
	G1/4	0118 08 13	17	14	25	10	28	15.5	21	0.057
	G3/8	0118 08 17	22	14	32	13	30	18	26.5	0.111
10	G1/4	0118 10 13	17	19	31	13	34	19	23	0.120
	G3/8	0118 10 17	22	19	32	13	34	19	26.5	0.129
12	G1/4	0118 12 13	17	22	34	14.5	34	19	23	0.126
	G3/8	0118 12 17	22	22	35	14.5	34	19	26.5	0.133
14	G1/4	0118 14 13	17	24	37	16	37	20.5	28	0.154
	G3/8	0118 14 17	22	24	38	16	37	20.5	28	0.195
	G1/2	0118 14 21	27	24	40	16	38	20.5	32.5	0.208
15	G3/8	0118 15 17	22	24	38	16	37	20.5	28	0.190
	G1/2	0118 15 21	27	24	40	16	38	20.5	32.5	0.198
16	G1/2	0118 16 21	27	27	42	16	38	21	32.5	0.221
18	G1/2	0118 18 21	27	30	46	19.5	43	24.5	36	0.366
20	G3/4	0118 20 27	32	32	49	20	44	24.5	39	0.403
22	G3/4	0118 22 27	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



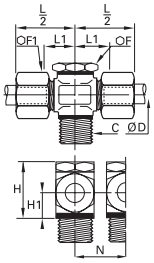
ØD	C		F	F1	H	H1	L max	L1	N	kg
4	G1/8	0118 04 10 39	14	10	23	9.5	24	14.5	17.5	0.038
5	G1/8	0118 05 10 39	14	12	23	9.5	25	14.5	17.5	0.041
	G1/4	0118 05 13 39	17	12	24	10	26	16	21	0.064
6	G1/8	0118 06 10 39	14	13	23	9.5	25	14.5	17.5	0.042
	G1/4	0118 06 13 39	17	13	24	10	26	16	21	0.057
8	G1/8	0118 08 10 39	14	14	23	9.5	28	15.5	17.5	0.055
	G1/4	0118 08 13 39	17	14	24	10	28	15.5	21	0.058
	G3/8	0118 08 17 39	22	14	31.5	13.5	30	18	26.5	0.113
10	G1/4	0118 10 13 39	17	19	30	13	34	19	23	0.118
	G3/8	0118 10 17 39	22	19	31.5	13.5	34	19	26.5	0.128
12	G1/4	0118 12 13 39	17	22	33	14.5	34	19	23	0.128
	G3/8	0118 12 17 39	22	22	34.5	15	34	19	26.5	0.140
14	G1/4	0118 14 13 39	17	24	36	16	37	20.5	28	0.189
	G3/8	0118 14 17 39	22	24	37.5	16.5	37	20.5	28	0.198
	G1/2	0118 14 21 39	27	24	39	16.5	38	20.5	32.5	0.205
15	G3/8	0118 15 17 39	22	24	37.5	16.5	37	20.5	28	0.389
	G1/2	0118 15 21 39	27	24	40	16.5	38	20.5	32.5	0.202
16	G1/2	0118 16 21 39	27	27	40	16.5	38	21	32.5	0.225
18	G1/2	0118 18 21 39	27	30	47	20	43	24.5	36	0.369
20	G3/4	0118 20 27 39	32	32	50	20.5	44	24.5	39	0.394
22	G3/4	0118 22 27 39	32	36	54	22.5	45	24.5	39	0.462

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

Brass Compression Fittings

0119 Double Banjo with Captive Sealing Washer, Male BSPP Thread

Brass, technical polymer

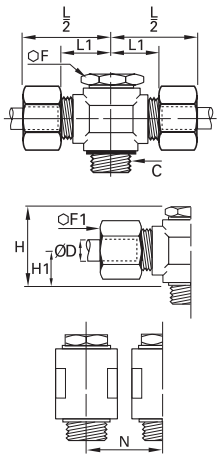


ØD	C		F	F1	H	H1	L1	L/2	N	kg
4	G1/8	0119 04 10	14	10	24	9.5	14.5	24	17.5	0.049
6	G1/8	0119 06 10	14	13	24	9.5	14.5	25	17.5	0.056
	G1/4	0119 06 13	17	13	25	10	16	26.5	21	0.038
8	G1/8	0119 08 10	14	14	24	9.5	15.5	28	17.5	0.069
	G1/4	0119 08 13	17	14	25	10	15.5	28	21	0.074
	G3/8	0119 08 17	22	14	32	13	18	30.5	26.5	0.140
10	G1/4	0119 10 13	17	19	31	13	19	34	23	0.156
	G3/8	0119 10 17	22	19	32	13	19	34	26.5	0.165
12	G1/4	0119 12 13	17	22	34	14.5	19	34	23	0.180
	G3/8	0119 12 17	22	22	35	14.5	19	34	26.5	0.182
14	G1/4	0119 14 13	17	24	37	16	20.5	37.5	28	0.246
	G3/8	0119 14 17	22	24	38	16	20.5	37.5	28	0.247
	G1/2	0119 14 21	27	24	40	16	20.5	38	32.5	0.219

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

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

Brass, zinc-plated steel with NBR seal

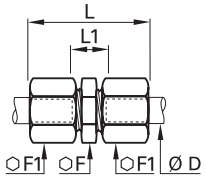


ØD	C		F	F1	H	H1	L1	L/2	N	kg
4	G1/8	0119 04 10 39	14	10	23	9.5	14.5	24	17.5	0.050
5	G1/8	0119 05 10 39	14	12	23	9.5	14.5	25	17.5	0.049
	G1/4	0119 05 13 39	17	12	24	10	126	26	21	0.072
6	G1/8	0119 06 10 39	14	13	23	9.5	14.5	25	17.5	0.056
	G1/4	0119 06 13 39	17	13	24	10	16	26	21	0.071
8	G1/8	0119 08 10 39	14	14	23	9.5	15.5	28	17.5	0.072
	G1/4	0119 08 13 39	17	14	24	10	15.5	28	21	0.080
	G3/8	0119 08 17 39	22	14	31.5	13.5	18	30	26.5	0.118
10	G1/4	0119 10 13 39	17	19	30	13	19	34	23	0.156
	G3/8	0119 10 17 39	22	19	31.5	13.5	19	34	26.5	0.167
12	G1/4	0119 12 13 39	17	22	33	14.5	19	34	23	0.180
	G3/8	0119 12 17 39	22	22	34.5	15	19	34	26.5	0.183
14	G1/4	0119 14 13 39	17	24	36	16	20.5	37	28	0.248
	G3/8	0119 14 17 39	22	24	37.5	16.5	20.5	37	28	0.247
	G1/2	0119 14 21 39	27	24	39	16.5	20.5	38	32.5	0.262
15	G3/8	0119 15 17 39	22	24	37.5	16.5	20.5	37	28	0.246
	G1/2	0119 15 21 39	27	24	40	16.5	20.5	38	32.5	0.251
18	G1/2	0119 18 21 39	27	30	47	20	24.5	43	36	0.469
20	G3/4	0119 20 27 39	32	32	50	20.5	24.5	44	39	0.638
22	G3/4	0119 22 27 39	32	36	54	22.5	24.5	45	39	0.610

Thread with pre-assembled washer
Bi-material sealing washers, part number 0139, can be found in Chapter 9.

0106 Equal Tube-to-Tube Connector

Brass

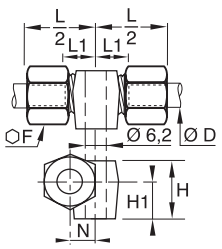


ØD		F	F1	L max	L1	kg
4	0106 04 00	10	10	28	10	0.016
5	0106 05 00	11	12	31	11	0.023
6	0106 06 00	11	13	32	11	0.026
8	0106 08 00	13	14	36	10	0.031
10	0106 10 00	17	19	42	13	0.070
12	0106 12 00	19	22	42	13	0.092
14	0106 14 00	22	24	45	11	0.104
15	0106 15 00	22	24	45	11	0.097
16	0106 16 00	24	27	48	13	0.141
18	0106 18 00	27	30	53	14	0.186
20	0106 20 00	30	32	56	14	0.211
22	0106 22 00	32	36	60	14	0.283
25	0106 25 00	36	41	64	14	0.396
28	0106 28 00	41	42	64	14	0.399

Brass Compression Fittings

0113 Equal Tube-to-Tube Connector with Mounting Boss

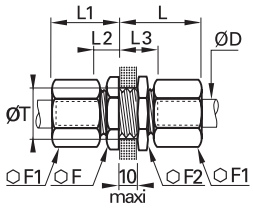
Brass



ØD		F	H	H1	L1	L/2	N	kg
4	0113 04 00	10	10.5	7	9.5	19	6	0.022
6	0113 06 00	13	13	9	10	20.5	7	0.033
8	0113 08 00	14	14.5	9.5	11	23.5	8	0.041
10	0113 10 00	19	19.5	12.5	11	26	9	0.082
12	0113 12 00	22	22	14	12	26.5	11	0.107
14	0113 14 00	24	25	16	11	28	12	0.122

0116 Equal Bulkhead Connector

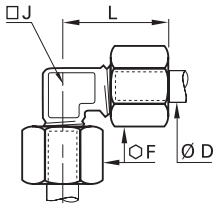
Brass



ØD		F	F1	F2	L max	L1 max	L2	L3	ØT min	kg
4	0116 04 00	10	10	13	27	17	7	17	8.3	0.024
5	0116 05 00	13	12	14	28	18	7.5	17.5	10.3	0.035
6	0116 06 00	13	13	14	28	19	7.5	17.5	10.3	0.037
8	0116 08 00	14	14	17	29	20	7	17	12.3	0.045
10	0116 10 00	19	19	22	33	25	9	19	16.5	0.101
12	0116 12 00	22	22	22	33	25	9	19	18.5	0.121
14	0116 14 00	24	24	24	35	25	8	18	20.5	0.145
15	0116 15 00	24	24	24	35	25	8	18	20.5	0.134
16	0116 16 00	27	27	27	36	28	9.5	19.5	22.5	0.189
18	0116 18 00	27	30	30	40	30	10.5	20.5	24.5	0.237
20	0116 20 00	32	30	32	41	31	11	21	27.5	0.274
22	0116 22 00	36	36	36	42	32	11	21	30.5	0.372
25	0116 25 00	36	41	38	46	36	11	21	33.5	0.469

0102 Equal Elbow

Brass

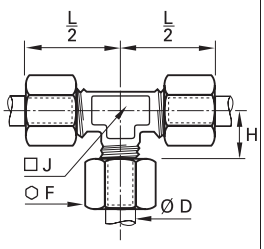


ØD		F	J	L max	kg
4	0102 04 00	10	5	19	0.016
5	0102 05 00	12	8	21	0.024
6	0102 06 00	13	8	22	0.027
8	0102 08 00	14	10	28	0.038
10	0102 10 00	19	12	30	0.073
12	0102 12 00	22	15	30	0.098
14	0102 14 00	24	19	35	0.133
15	0102 15 00	24	19	35	0.122
16	0102 16 00	27	19	39	0.164
18	0102 18 00	30	23	41	0.231
20	0102 20 00	32	23	42	0.233
22	0102 22 00	36	27	50	0.371
25	0102 25 00	41	27	54	0.446
28	0102 28 00	42	32	54.5	0.478

Brass Compression Fittings

0104 Equal Tee

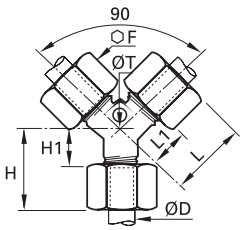
Brass



ØD		F	H	J	L/2	kg
4	0104 04 00	10	9.5	8	19	0.028
5	0104 05 00	12	11	8	21	0.036
6	0104 06 00	13	11	8	22	0.040
8	0104 08 00	14	15	10	28	0.055
10	0104 10 00	19	14.5	12	30	0.105
12	0104 12 00	22	15	15	30	0.142
14	0104 14 00	24	18	19	35	0.190
15	0104 15 00	24	18	19	35	0.175
16	0104 16 00	27	21	19	39	0.239
18	0104 18 00	30	21.5	23	41	0.330
20	0104 20 00	32	21.5	23	42	0.330
22	0104 22 00	36	29	27	50	0.518
25	0104 25 00	41	29	27	54	0.630
28	0104 28 00	42	30	32	55	0.660

0142 Equal Y Piece with Mounting Boss

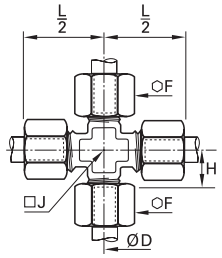
Brass



ØD		F	H max	H1	L max	L1	ØT	Kg
4	0142 04 00	10	16.5	7	26.5	17	4.2	0.032
6	0142 06 00	13	19.5	8.5	28	17	4.2	0.049
8	0142 08 00	14	21	8	30	17	6.2	0.061
10	0142 10 00	19	24.5	9	37.5	22	6.2	0.128
12	0142 12 00	22	26	11	38	23	6.2	0.110
14	0142 14 00	24	28	11	41.5	24.5	6.2	0.201
15	0142 15 00	24	28	11	41.5	24.5	6.2	0.204
16	0142 16 00	27	30	12	43	25	6.2	0.252
18	0142 18 00	30	31.5	12	50.5	31	10.2	0.220
25	0142 25 00	41	39	14	59	34	10.2	0.728

0107 Equal Cross

Brass



ØD		F	H	J	L/2	Kg
4	0107 04 00	10	9.5	8	19	0.035
5	0107 05 00	12	11	8	21	0.047
6	0107 06 00	13	11	8	22	0.052
8	0107 08 00	14	15	11	28	0.073
10	0107 10 00	19	14.5	14	30	0.142
12	0107 12 00	22	15	15	35	0.096
14	0107 14 00	24	18	20	35	0.246
15	0107 15 00	24	18	20	35	0.227
16	0107 16 00	27	21	20	39	0.312
18	0107 18 00	30	21.5	25	41	0.426
20	0107 20 00	32	21.5	25	42	0.429
22	0107 22 00	36	29	27	50	0.676
25	0107 25 00	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

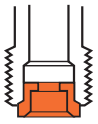
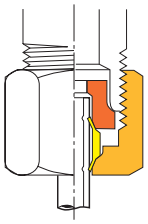
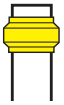
Applications

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
1 **Assemble the reducer** Place the reducer in the fitting body.	1 	
2 **Assemble the nut and olive** Place the nut and then the olive onto the tube.	2 	
3 **Assemble the nut** Push the tubing into the fitting until it butts against the tube reducer. Tighten the nut to the recommended torque (see opposite page).	3	

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: **0126**	Copper, cold-rolled brass, polymer tube and barb connectors **0122** and **0165**	Coiled annealed copper tube	Cold-rolled copper tube for vibration and side loading, etc.	Coiled annealed copper tube for vibration and side loading, etc.	Steel or copper tube: low/medium hydraulic pressure, lubricate before assembly	Polymer tube

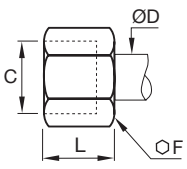
***Assembly specifications for nut-olive 0110 ..70**
This part functions as both olive and nut for flexible polymer tube assemblies:
1. Hand tighten the polymer nut-olive a few turns onto the body of the fitting; the knurling makes this easier.
2. Then introduce the polymer tube and push home into the body of the fitting.
3. Continue manually tightening the polymer nut-olive.
4. Finish tightening using a spanner until the nut body disengages and turns freely, which acts as a torque limiter.

N.B.: To avoid damaging the threads, do not insert the tube before hand tightening the nut-olive into the body of the fitting.
**Bureau de Normalisation de l'Automobile (French Automotive Bureau of Standards)

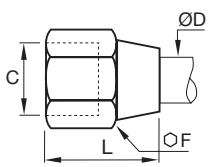
Recommended Tightening Torque

Tightening torque in daN.m = maximum tightening torque of a **0110** nut and **0124** olive with copper, brass or steel tube.

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



Nut **0110..60**

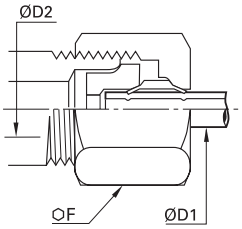


Ø D (mm)	⬡F 0110	⬡F 0110..60	max. daN.m copper or brass	⬡F 0110..40	max. daN.m steel
4	10	11	0.7	10	1.5
5	12	13	0.7	12	1.5
6	13	13	1.5	13	2.5
8	14	16	1.5	14	2.5
10	19	20	1.8	19	3
12	22	22	3	22	4.5
14	24	24	3.5	24	5.5
15	24	24	4	24	6
16	27	27	5	27	7
18	30	30	6	30	9
20	32	32	6	32	10
22	36	36	7	36	12
25	41	41	8	41	13
28	42		9		

Complementary Brass Compression Fittings

0166 3-Piece Reducer

Brass



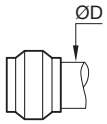
ØD1	ØD2		F	kg
4	5	0166 04 05	13	0.011
	6	0166 04 06	13	0.011
	8	0166 04 08	14	0.012
	10	0166 04 10	19	0.031
	12	0166 04 12	22	0.044
	14	0166 04 14	24	0.054
	15	0166 04 15	24	0.056
5	6	0166 05 06	13	0.010
	8	0166 05 08	14	0.012
	10	0166 05 10	19	0.030
	12	0166 05 12	22	0.044
	14	0166 05 14	24	0.053
	16	0166 05 16	27	0.078
6	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
	16	0166 06 16	27	0.077
8	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
	18	0166 08 18	30	0.100
10	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
	20	0166 10 20	32	0.107
	22	0166 10 22	36	0.144
	25	0166 10 25	41	0.209
12	14	0166 12 14	24	0.043
	15	0166 12 15	24	0.043
	16	0166 12 16	27	0.066
	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
14	16	0166 14 16	27	0.060
	18	0166 14 18	30	0.084
	20	0166 14 20	32	0.095
	22	0166 14 22	36	0.133
	25	0166 14 25	41	0.189
15	18	0166 15 18	30	0.081
	22	0166 15 22	36	0.130
16	18	0166 16 18	30	0.078
	20	0166 16 20	32	0.088
	22	0166 16 22	36	0.126
	25	0166 16 25	41	0.185
18	20	0166 18 20	32	0.082
	22	0166 18 22	36	0.118
	25	0166 18 25	41	0.180
	28	0166 18 28	42	0.176
20	25	0166 20 25	41	0.168
22	28	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

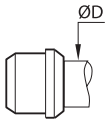
Brass



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

0124..40 Steel Olive

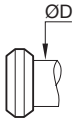
Zinc-plated steel



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

0111 BNA* Brass Olive

Brass



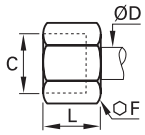
ØD		kg
4	0111 04 00	0.001
5	0111 05 00	0.001
6	0111 06 00	0.001
8	0111 08 00	0.001
10	0111 10 00	0.002
12	0111 12 00	0.002
14	0111 14 00	0.003
15	0111 15 00	0.003
16	0111 16 00	0.003

*BNA: Bureau de Normalisation de l'Automobile (standards organization in the field of Automotive Process)

Complementary Brass Compression Fittings

0110 Brass Nut

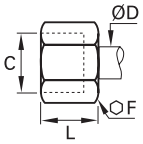
Brass



ØD	C		F	L	kg
4	M8x1	0110 04 00	10	11	0.005
5	M10x1	0110 05 00	12	11	0.006
6	M10x1	0110 06 00	13	11	0.008
8	M12x1	0110 08 00	14	13	0.008
10	M16x1.5	0110 10 00	19	15	0.019
12	M18x1.5	0110 12 00	22	15	0.026
14	M20x1.5	0110 14 00	24	15	0.029
15	M20x1.5	0110 15 00	24	15	0.028
16	M22x1.5	0110 16 00	27	17	0.042
18	M24x1.5	0110 18 00	30	18	0.057
20	M27x1.5	0110 20 00	32	18	0.057
22	M30x1.5	0110 22 00	36	19	0.078
25	M33x1.5	0110 25 00	41	21	0.121
28	M36x1.5	0110 28 00	42	21	0.110

0110..40 Steel Nut

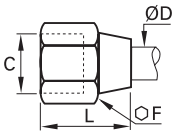
Zinc-plated steel



ØD	C		F	L	kg
4	M8x1	0110 04 00 40	10	11	0.004
5	M10x1	0110 05 00 40	12	11.5	0.005
6	M10x1	0110 06 00 40	13	12	0.008
8	M12x1	0110 08 00 40	14	13.5	0.008
10	M16x1.5	0110 10 00 40	19	16	0.018
12	M18x1.5	0110 12 00 40	22	16.5	0.027
14	M20x1.5	0110 14 00 40	24	17	0.030
15	M20x1.5	0110 15 00 40	24	17	0.029
16	M22x1.5	0110 16 00 40	27	18	0.042
18	M24x1.5	0110 18 00 40	30	19	0.056
20	M27x1.5	0110 20 00 40	32	20.5	0.061
22	M30x1.5	0110 22 00 40	36	21.5	0.085

0110..60 Brass Long Nut

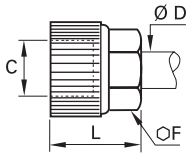
Brass



ØD	C		F	L	kg
4	M8x1	0110 04 00 60	11	14.5	0.007
5	M10x1	0110 05 00 60	13	17	0.008
6	M10x1	0110 06 00 60	13	17.5	0.011
8	M12x1	0110 08 00 60	16	20	0.019
10	M16x1.5	0110 10 00 60	20	23	0.032
12	M18x1.5	0110 12 00 60	22	25	0.039
14	M20x1.5	0110 14 00 60	24	30	0.051
15	M20x1.5	0110 15 00 60	24	30	0.049
16	M22x1.5	0110 16 00 60	27	32	0.070
18	M24x1.5	0110 18 00 60	30	35	0.098
20	M27x1.5	0110 20 00 60	32	35	0.102
22	M30x1.5	0110 22 00 60	36	36	0.129

0110..70 Technical Polymer Nut-Olive

Technical polymer



ØD	C		F	L	kg
4	M8x1	0110 04 00 70	8	13	0.008
6	M10x1	0110 06 00 70	11	15	0.002
8	M12x1	0110 08 00 70	13	16	0.002
10	M16x1.5	0110 10 00 70	17	19	0.004
12	M18x1.5	0110 12 00 70	19	19	0.005
14	M20x1.5	0110 14 00 70	22	20	0.005
16	M22x1.5	0110 16 00 70	24	21	0.008

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

Brass Compression Fittings

Compression Fittings

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

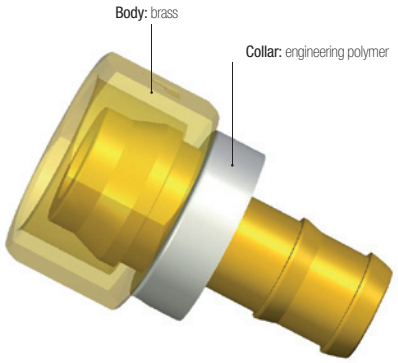
Technical Characteristics

Compatible Fluids	Coolants, compressed air
Working Pressure	0 to 16 bar
Working Temperature	0°C to +100°C (water) -20°C to +70°C (air)

Tightening Torque, Type 0132	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

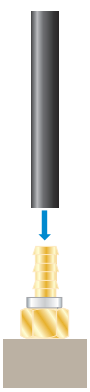
Self-Fastening Hose Assembly Machine

Machine designed to assemble a barb connector and a self-fastening NBR hose.

Machine part number: **0650 00 00 05**

Tube Cutting and Positioning

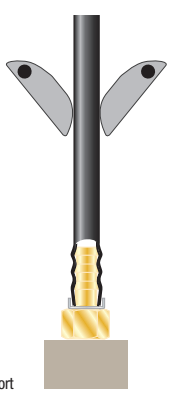
Cut the hose square and position the barb connector on the mounting tool.



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

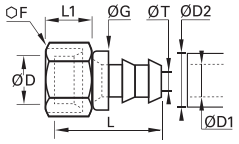
Regulations

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

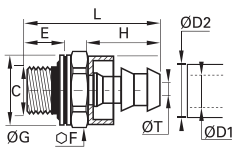


ØD	ØD1	ØD2		F	G	L	L1	ØT	kg
6	6.3	13	0132 06 56	12	16.5	32.5	12.5	4.8	0.010
8	6.3	13	0132 08 56	14	16.5	29.5	11.5	4.8	0.015
10	6.3	13	0132 10 56	19	16.5	30	14	4.8	0.028
	9.5	16	0132 10 60	19	19.5	34	14	7.5	0.030
14	9.5	16	0132 14 60	24	19.5	35.5	15	7.5	0.050
	12.7	19	0132 14 62	24	23.5	39.5	15	10	0.054
18	12.7	19	0132 18 62	30	23.5	41.5	17	10	0.090
	15.9	23	0132 18 66	30	27	50	17	13.5	0.090
22	19.1	27	0132 22 69	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

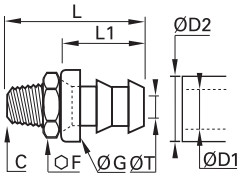


ØD1	ØD2	C		E	F	G	H	L	ØT	kg
6.3	13	G1/8	0133 56 10 39	5.5	13	14	20	31.5	4.8	0.012
	13	G1/4	0133 56 13 39	7	17	17	20	33.5	4.8	0.018
9.5	16	G1/4	0133 60 13 39	7	17	17	24	37.5	7.5	0.022
	16	G3/8	0133 60 17 39	9.5	22	22	24	42.5	7.5	0.038
12.7	19	G3/8	0133 62 17 39	9.5	22	22	28	46.5	10	0.045
	19	G1/2	0133 62 21 39	10.5	27	26	28	48.5	10	0.060
15.9	23	G1/2	0133 66 21 39	10.5	27	26	36.5	57	13.5	0.064
	23	G3/4	0133 66 27 39	11.5	32	32	36.5	59	13.5	0.095
19.1	27	G3/4	0133 69 27 39	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	0134 56 10	14	16.5	32.5	20	4.8	0.015
	13	R1/4	0134 56 13	14	16.5	37	20	4.8	0.020
9.5	16	R1/4	0134 60 13	14	19.5	41	24	7.5	0.022
	16	R3/8	0134 60 17	19	19.5	41.5	24	7.5	0.036
12.7	19	R3/8	0134 62 17	19	23.5	45.5	28	10	0.038
	19	R1/2	0134 62 21	22	23.5	50	28	10	0.062
15.9	23	R1/2	0134 66 21	22	27	58.5	36.5	13.5	0.056
	23	R3/4	0134 66 27	27	27	60.5	36.5	13.5	0.101
19.1	27	R3/4	0134 69 27	27	30.5	67	43	16	0.108

Polymer collar

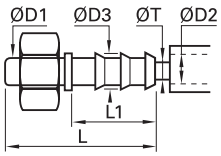
Self-fastening NBR hose is selected by nominal diameter; for example:

Barb Connector	O.D. (Tube)	Ø DN (Tube)	Self-Fastening NBR hose
0132 10 56	10	1/4	10..H 56...

Brass Adaptors

0122 Barb Connector for Hose

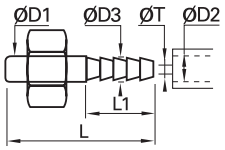
Brass



ØD1	ØD2		ØD3	L	L1	ØT min	kg
4	4	0122 04 04	6	37.5	22.5	3	0.004
5	4	0122 05 04	6	37.5	22.5	3	0.003
6	4	0122 06 04	6	37.5	22.5	3	0.005
	7	0122 06 07	9	37.5	22.5	6	0.007
8	6	0122 08 06	8	40	22.5	5	0.007
	7	0122 08 07	9	40	22.5	6	0.008
	10	0122 08 10	12.5	40	22.5	9	0.013
10	7	0122 10 07	9	43	22.5	6	0.010
	10	0122 10 10	12.5	43	22.5	9	0.014
12	10	0122 12 10	12.5	43	22.5	9	0.014
	13	0122 12 13	15	50	29.5	12	0.018
14	13	0122 14 13	15	52	29.5	12	0.019
	16	0122 14 16	18.5	60.5	38	15	0.308
15	13	0122 15 13	15	52	29.5	12	0.019
	16	0122 15 16	18.5	60.5	38	15	0.032
16	13	0122 16 13	15	53.5	29.5	12	0.021
	16	0122 16 16	18.5	62	38	15	0.032
18	16	0122 18 16	18.5	62	38	15	0.032
	19	0122 18 19	21.5	62	38	18	0.041
20	16	0122 20 16	18.5	64	38	15	0.034
	19	0122 20 19	21.5	64	38	18	0.038
22	19	0122 22 19	21.5	64	38	18	0.039
25	19	0122 25 19	21.5	70	38	18	0.049
	25	0122 25 25	27.5	70	38	24	0.054
28	25	0122 28 25	27.5	70	38	24	0.087

0165 Barb Connector for Flexible Tubing

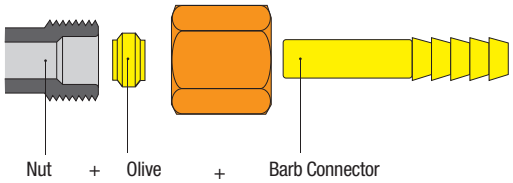
Brass



ØD1	ØD2		ØD3	L	L1	ØT min	kg
4	4	0165 04 06	4.3	30	15	2	0.002
5	4	0165 05 06	4.3	30	15	2	0.010
6	4	0165 06 06	4.3	30	15	2	0.003
	6	0165 06 08	6.4	30	15	4	0.004
	8	0165 06 10	8.4	30	15	4	0.004
8	6	0165 08 08	6.4	32.5	15	4	0.006
	8	0165 08 10	8.4	32.5	15	6	0.006
	10	0165 08 12	10.7	37.5	20	8	0.009
10	8	0165 10 10	8.4	35.5	15	6	0.008
	10	0165 10 12	10.7	40.5	20	8	0.010
	12	0165 10 14	12.7	40.5	20	8	0.012
12	10	0165 12 12	10.7	40.5	20	8	0.011
	12	0165 12 14	12.7	40.5	20	10	0.013
14	12	0165 14 14	12.7	42.5	20	10	0.014
15	13	0165 15 16	13.7	42.5	20	11	0.016
16	13	0165 16 16	13.7	44	20	11	0.018

Assembly: Barb Connectors

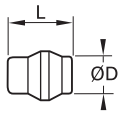
Our barb connectors 0122 and 0165 are designed to be used with different types of hose. They are secured using the nut and olive provided with the fitting.



Brass Adaptors

0126 Plug for Compression Fitting

Brass

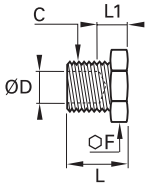


ØD		L	kg
4	0126 04 00	10	0.001
5	0126 05 00	10	0.003
6	0126 06 00	10	0.003
8	0126 08 00	11.5	0.006
10	0126 10 00	13	0.010
12	0126 12 00	13	0.014
14	0126 14 00	13.5	0.020
15	0126 15 00	13.5	0.022
16	0126 16 00	16	0.029
18	0126 18 00	16	0.039
20	0126 20 00	16	0.045
22	0126 22 00	18	0.003
28	0126 28 00	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

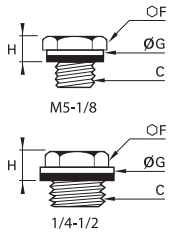


ØD	C		F	L	L1	kg
4	M8x1	0125 04 00	10	12	8	0.006
6	M10x1	0125 06 00	11	13.5	9.5	0.008
8	M12x1	0125 08 00	14	14	9	0.013
10	M16x1.5	0125 10 00	17	18	11	0.025
12	M18x1.5	0125 12 00	19	18	11	0.030
14	M20x1.5	0125 14 00	22	19	11	0.041

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

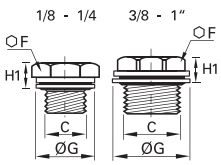


C		F	G	H	kg
M5x0.8	0220 19 00	8	8	5	0.002
G1/8	0220 10 00	14	14	7.5	0.011
G1/4	0220 13 00	17	17	7.5	0.019
G3/8	0220 17 00	17	22	8.5	0.024
G1/2	0220 21 00	22	27	10	0.040

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



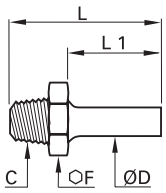
C		F	G	H1	kg
G1/8	0220 10 00 39	14	14	6.5	0.012
G1/4	0220 13 00 39	17	17	6.5	0.020
G3/8	0220 17 00 39	17	22	8	0.025
G1/2	0220 21 00 39	22	26	9	0.043
G3/4	0220 27 00 39	22	32	10	0.060
G1	0220 34 00 39	27	39.5	10.5	0.089

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

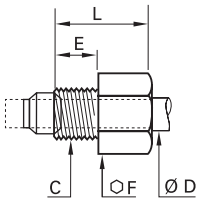
Brass



ØD	C		F	L	L1	kg
4	R1/8	0120 04 10	11	25.5	14	0.007
5	R1/8	0120 05 10	11	26	14.5	0.007
6	R1/8	0120 06 10	11	26.5	15	0.008
	R1/4	0120 06 13	14	31	15	0.015
8	R1/8	0120 08 10	11	28.5	17	0.009
	R1/4	0120 08 13	14	33	17	0.016
	R3/8	0120 08 17	17	33.5	17	0.020
10	R1/4	0120 10 13	14	36	20	0.018
	R3/8	0120 10 17	17	36.5	20	0.022
	R1/2	0120 10 21	22	41	20	0.038
12	R1/4	0120 12 13	14	36	20	0.018
	R3/8	0120 12 17	17	36.5	20	0.022
	R1/2	0120 12 21	22	41	20	0.041
14	R3/8	0120 14 17	17	38	21.5	0.024
	R1/2	0120 14 21	22	42.5	21.5	0.041
15	R3/8	0120 15 17	17	38	21.5	0.023
	R1/2	0120 15 21	22	42.5	21.5	0.041
16	R3/8	0120 16 17	17	39.5	23	0.024
	R1/2	0120 16 21	22	44	23	0.042
18	R1/2	0120 18 21	22	44.5	23.5	0.042
	R3/4	0120 18 27	27	47.5	23.5	0.071
20	R3/4	0120 20 27	27	49	25	0.071
22	R3/4	0120 22 27	27	48.5	25.5	0.067
	R1	0120 22 34	36	52.5	25.5	0.116
25	R1	0120 25 34	36	57	30	0.119
28	R1	0120 28 34	36	57	30	0.138

0112 Sleeve Nut for Compression Fitting, Male Metric Thread

Brass



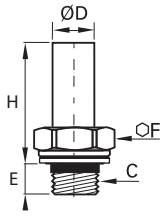
ØD	C		E	F	L	kg
4	M8x1	0112 04 00	7	10	13	0.005
5	M10x1	0112 05 00	7.5	11	13.5	0.007
6	M10x1	0112 06 00	7.5	11	13.5	0.006
8	M12x1	0112 08 00	8	13	15	0.008
10	M16x1.5	0112 10 00	11	17	18	0.018
12	M18x1.5	0112 12 00	11	19	18	0.021
14	M20x1.5	0112 14 00	11	22	18	0.026

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

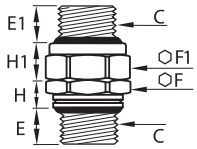


ØD	C		E	F	H	Kg
4	G1/8	0128 04 10 39	7.5	13	20	0.009
	G1/4	0128 04 13 39	9	17	22	0.015
6	G1/8	0128 06 10 39	7.5	13	21	0.010
	G1/4	0128 06 13 39	9	17	23	0.016
8	G1/8	0128 08 10 39	7.5	13	23	0.011
	G1/4	0128 08 13 39	9	17	25	0.017
	G3/8	0128 08 17 39	12	22	26	0.033
10	G1/4	0128 10 13 39	9	17	28	0.018
	G3/8	0128 10 17 39	12	22	29	0.034
	G1/2	0128 10 21 39	27	27	30	0.048
14	G3/8	0128 14 17 39	12	22	30.5	0.035
	G1/2	0128 14 21 39	27	27	31.5	0.049
18	G1/2	0128 18 21 39	27	27	33.5	0.052
	G3/4	0128 18 27 39	14	32	34.5	0.084
22	G3/4	0128 22 27 39	14	32	36.5	0.082
	G1	0128 22 34 39	16.5	41	38	0.123
28	G1	0128 28 34 39	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

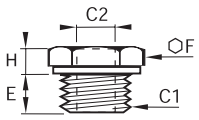


C		E	E1	F	F1	H	H1	kg
G1/8	0151 10 10 39	5.5	7	13	14	6	6.5	0.017
G1/4	0151 13 13 39	7	8.5	17	19	6.5	9	0.036
G3/8	0151 17 17 39	9.5	9.5	22	22	9	9	0.057
G1/2	0151 21 21 39	10.5	10.5	27	27	10	10	0.083
G3/4	0151 27 27 39	11.5	11.5	32	32	11	10	0.121
G1	0151 34 34 39	13	13.5	41	41	12.5	10.5	0.230

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



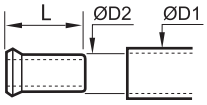
C1	C2		E	F	H	kg
G1/8	M5x0.8	0168 10 19 39	8	14	4.5	0.009
G1/4	M5x0.8	0168 13 19 39	8	17	5	0.018
	G1/8	0168 13 10 39	8	17	5	0.012
G3/8	G1/8	0168 17 10 39	10	19	5	0.020
	G1/4	0168 17 13 39	10	19	5	0.013
G1/2	G1/8	0168 21 10 39	12	24	7.5	0.052
	G1/4	0168 21 13 39	12	24	7.5	0.043
	G3/8	0168 21 17 39	12	24	7.5	0.030
G3/4	G1/4	0168 27 13 39	12	32	9.5	0.099
	G3/8	0168 27 17 39	12	32	9.5	0.086
	G1/2	0168 27 21 39	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	0127 04 00	11	0.001
	2.7	0127 04 27	11	0.001
5	3	0127 05 03	11	0.001
	3.3	0127 05 00	11.5	0.009
6	4	0127 06 00	11.5	0.001
8	5.5	0127 08 55	14	0.001
	6	0127 08 00	14	0.001
10	7	0127 10 07	18	0.001
	7.5	0127 10 75	18	0.001
	8	0127 10 00	18	0.002
12	8	0127 12 08	18	0.002
	9	0127 12 09	18	0.002
	10	0127 12 00	18	0.001
14	11	0127 14 11	18	0.002
	12	0127 14 00	18	0.002
15	12	0127 15 12	18	0.002
16	13	0127 16 13	18	0.003
18	14	0127 18 14	19.5	0.003
20	15	0127 20 15	20.5	0.003
22	16	0127 22 16	21	0.004
25	19	0127 25 19	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

1805 BSPT
Page 5-34

1805 NPT
Page 5-34

1814 BSPP
Page 5-34

1809 BSPT
Page 5-35

1809 NPT
Page 5-35

1820 BSPT
Page 5-35

1820 NPT
Page 5-35

Tube-to-Tube Fittings

1806
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1816
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1802
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1804
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Complementary Fittings

1866
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1824
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1810
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Accessories

1822
Page 5-39

1827
Page 5-39

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

Applications

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

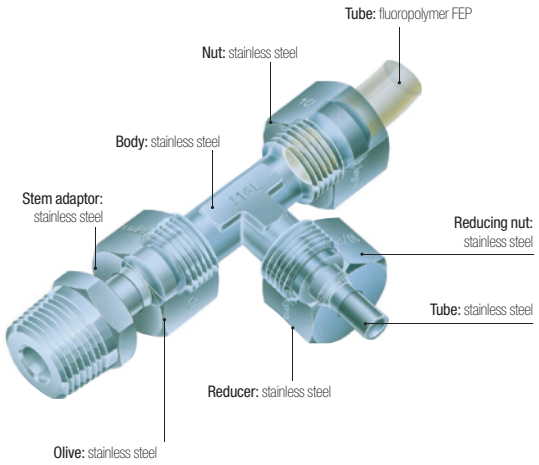
Technical Characteristics

Compatible Fluids	Many fluids
Working Pressure	Vacuum to 400 bar (80 bar in corrosive environments)
Working Temperature	-40°C to +250°C

Tightening Torques	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

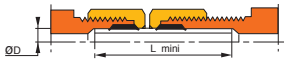
Maximum Bore Diameters

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

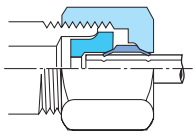
Stainless Steel Compression Fittings

Installation

Fitting

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

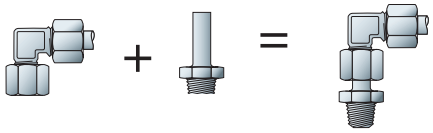
Diagram: Assembled Fitting



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

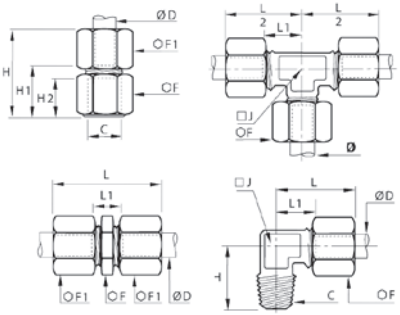
Orientable Elbow Assembly

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

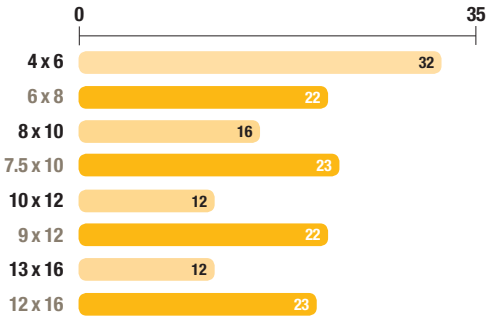
Stainless steel tube
"Thin Wall" cold-drawn seamless, annealed and passivated:
wall thickness tolerance +/-0.1 mm.
For use with "thin wall" stainless steel tube from 6 mm to 16 mm O.D., maximum wall thickness 1 mm.

Recommended Tube/Fitting Assembly Configurations

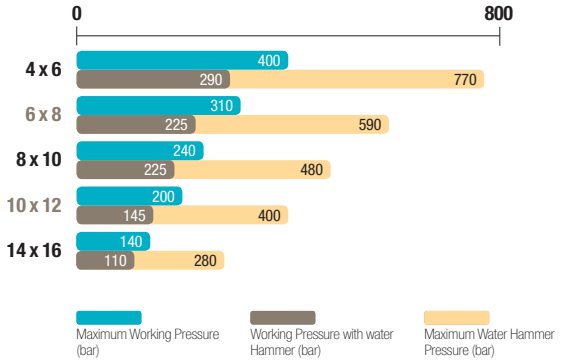
Assembled using Parker Legris olive and nut in stainless steel, with a tube support.

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

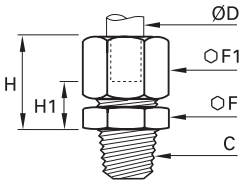
Temperature °C	-40°C / -15°C	-15°C / +30°C	+30°C / +50°C	+50°C/+70°C	+70°C/+100°C
Factor	1.8	1	0.68	0.55	0.31

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

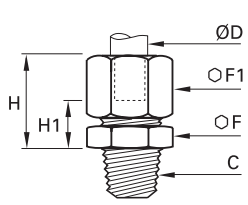
Stainless steel 316L



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

1805 Stud Fitting, Male NPT Thread

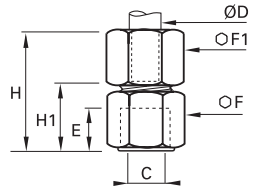
Stainless steel 316L



ØD	C		F	F1	H max	H1	kg
6	NPT1/8	1805 06 11	12	13	19.5	7.5	0.018
	NPT1/4	1805 06 14	14	13	19.5	7.5	0.027
	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

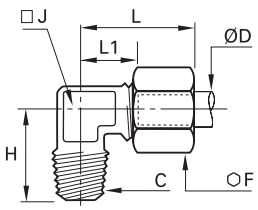


ØD	C		E	F	F1	H max	H1	kg
6	G1/8	1814 06 10	7.5	14	13	29	17	0.023
	G1/4	1814 06 13	11	17	13	29	21	0.032
8	G1/4	1814 08 13	11	17	14	34.5	20.5	0.033
10	G3/8	1814 10 17	11.5	22	19	38.5	22	0.064
	G1/2	1814 10 21	15	27	19	43	26.5	0.093
12	G3/8	1814 12 17	11.5	22	22	39	22	0.072
	G1/2	1814 12 21	15	27	22	43.5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

Stainless Steel Compression Fittings

1809 Stud Elbow, Male BSPT Thread

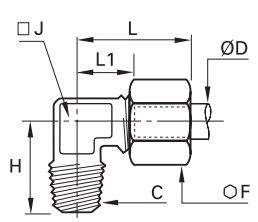
Stainless steel 316L



ØD	C		F	H	J	L max	L1	kg
6	R1/8	1809 06 10	13	18	8	25.5	13.5	0.021
	R1/4	1809 06 13	13	23	10	25.5	13.5	0.030
8	R1/8	1809 08 10	14	20.5	10	28.5	14.5	0.027
	R1/4	1809 08 13	14	23	10	28.5	14.5	0.031
10	R1/4	1809 10 13	19	25	12	32.5	16	0.050
	R3/8	1809 10 17	19	25.5	12	32.5	16	0.058
	R1/2	1809 10 21	19	32	18	36.5	20	0.091
12	R1/4	1809 12 13	22	26	14	34	17	0.067
	R3/8	1809 12 17	22	27	14	34	17	0.070
	R1/2	1809 12 21	22	32	18	37	20	0.098
16	R3/8	1809 16 17	27	28.5	18	39.5	21	0.107
	R1/2	1809 16 21	27	31.5	18	39.5	21	0.114

1809 Stud Elbow, Male NPT Thread

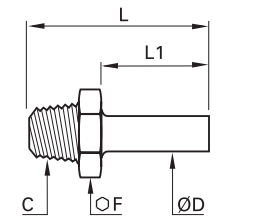
Stainless steel 316L



ØD	C		F	H	J	L max	L1	kg
6	NPT1/8	1809 06 11	13	19.5	8	25.5	13.5	0.022
	NPT1/4	1809 06 14	13	25.5	10	25.5	13.5	0.031
	NPT3/8	1809 06 18	13	28	12	27	15	0.046
	NPT1/2	1809 06 22	13	34	12	29	17	0.072
8	NPT1/8	1809 08 11	14	22	10	28.5	14.5	0.028
	NPT1/4	1809 08 14	14	25.5	10	28.5	14.5	0.033
10	NPT1/4	1809 10 14	19	27.5	12	32.5	16	0.052
	NPT3/8	1809 10 18	19	28	12	32.5	16	0.061
	NPT1/2	1809 10 22	19	35	18	36.5	20	0.096
12	NPT1/4	1809 12 14	22	28.5	14	34	17	0.069
	NPT3/8	1809 12 18	22	29.5	14	34	17	0.074
	NPT1/2	1809 12 22	22	35	18	37	20	0.102
16	NPT3/8	1809 16 18	27	31	18	39.5	21	0.110
	NPT1/2	1809 16 22	27	34.5	18	39.5	21	0.116

1820 Stud Standpipe, Male BSPT Thread

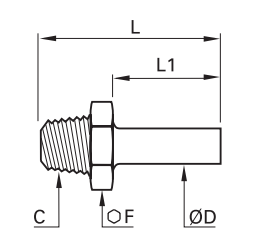
Stainless steel 316L



ØD	C		F	L	L1	kg
6	R1/8	1820 06 10	12	26.5	15	0.009
	R1/4	1820 06 13	14	31	15	0.017
8	R1/8	1820 08 10	12	28.5	17	0.008
	R1/4	1820 08 13	14	33	17	0.016
10	R1/4	1820 10 13	14	36	20	0.016
	R3/8	1820 10 17	17	36.5	20	0.025
	R1/2	1820 10 21	22	41	20	0.052
12	R1/4	1820 12 13	14	36	20	0.016
	R3/8	1820 12 17	17	36.5	20	0.022
	R1/2	1820 12 21	22	41	20	0.048
16	R3/8	1820 16 17	17	39.5	23	0.022
	R1/2	1820 16 21	22	44	23	0.038

1820 Stud Standpipe, Male NPT Thread

Stainless steel 316L

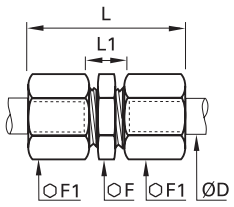


ØD	C		F	L	L1	kg
6	NPT1/8	1820 06 11	12	26.5	15	0.009
	NPT1/4	1820 06 14	14	31	15	0.019
8	NPT1/8	1820 08 11	12	28.5	17	0.009
	NPT1/4	1820 08 14	14	33	17	0.019
10	NPT1/4	1820 10 14	14	36	20	0.018
	NPT3/8	1820 10 18	19	36.5	20	0.032
	NPT1/2	1820 10 22	22	41	20	0.060
12	NPT1/4	1820 12 14	14	36	20	0.019
	NPT3/8	1820 12 18	19	36.5	20	0.028
	NPT1/2	1820 12 22	22	41	20	0.053
16	NPT3/8	1820 16 18	19	39.5	23	0.027
	NPT1/2	1820 16 22	22	44	23	0.042

Stainless Steel Compression Fittings

1806 Equal Tube-to-Tube Connector

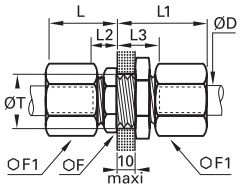
Stainless steel 316L



ØD		F	F1	L max	L1	kg
6	1806 06 00	12	13	34.5	11	0.025
8	1806 08 00	13	14	38.5	10	0.029
10	1806 10 00	17	19	46	13	0.066
12	1806 12 00	19	22	47	13	0.085
16	1806 16 00	24	27	51	13	0.135

1816 Equal Bulkhead Connector

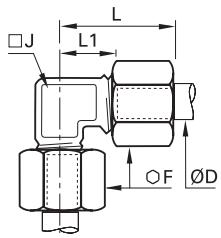
Stainless steel 316L



ØD		F	F1	L max	L1 max	L2	L3	ØT min	kg
6	1816 06 00	13	13	28	19	7.5	17	10.5	0.034
8	1816 08 00	14	14	29	20	7	17	12.5	0.042
10	1816 10 00	19	19	33	25	9	19	16.5	0.094
12	1816 12 00	22	22	33	25	9	19	18.5	0.113
16	1816 16 00	27	27	36	28	9.5	19.5	22.5	0.179

1802 Equal Elbow

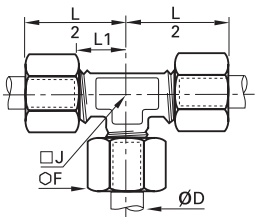
Stainless steel 316L



ØD		F	J	L max	L1	kg
6	1802 06 00	13	8	25.5	13.5	0.028
8	1802 08 00	14	10	28.5	14.5	0.035
10	1802 10 00	19	12	32.5	16	0.071
12	1802 12 00	22	14	34	17	0.093
16	1802 16 00	27	18	39.5	21	0.151

1804 Equal Tee

Stainless steel 316L



ØD		F	J	L1	L/2	kg
6	1804 06 00	13	8	13.5	25.5	0.040
8	1804 08 00	14	10	14.5	28.5	0.050
10	1804 10 00	19	12	16	32.5	0.103
12	1804 12 00	22	14	17	34	0.133
16	1804 16 00	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.

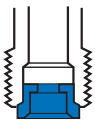
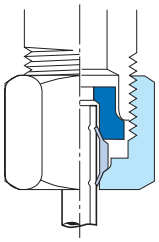
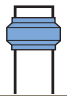
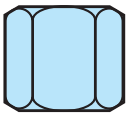
Example:
- Advanced PE tubing 6 mm O.D.
- stainless steel tubing 8 mm O.D.
- fluoropolymer tubing 12 mm O.D. or braided PVC hose 10 mm I.D.

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

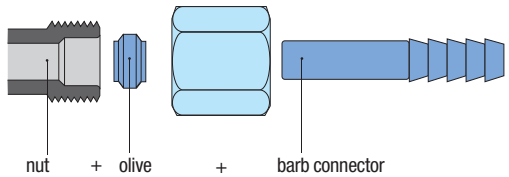
Applications

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

Reducer Assembly Procedure

Operation	Assembly Sequence	Assembled Fitting
1 **Assemble the reducer** Place the reducer in the fitting body.	1 	
2 **Assemble the nut and olive** Place the nut and then the olive onto the tube.	2 	
3 **Assemble the nut** Push the tube into the fitting until it bottoms on the reducer. Tighten the nut to the recommended torque (see opposite page).	3 	

Assembly: Barb Connectors



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.

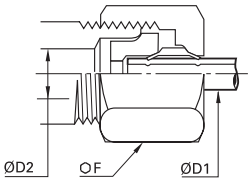
Regulations

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

1866 3-Piece Reducer

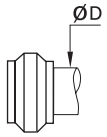
Stainless steel 316L



ØD1	ØD2		F	kg
6	8	1866 06 08	14	0.011
	10	1866 06 10	19	0.028
	12	1866 06 12	22	0.040
8	10	1866 08 10	19	0.026
	12	1866 08 12	22	0.037
	16	1866 08 16	27	0.071
10	12	1866 10 12	22	0.034
	16	1866 10 16	27	0.065
12	16	1866 12 16	27	0.061

1824 Stainless Steel Olive

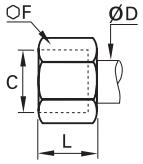
Stainless steel 316L



ØD		kg
6	1824 06 00	0.001
8	1824 08 00	0.001
10	1824 10 00	0.003
12	1824 12 00	0.004
16	1824 16 00	0.005

1810 Stainless Steel Nut

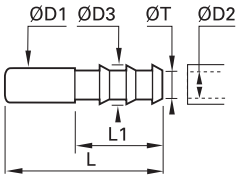
Stainless steel 316L



ØD	C		F	L	kg
6	M10x1	1810 06 00	13	11	0.007
8	M12x1	1810 08 00	14	13	0.008
10	M16x1.5	1810 10 00	19	15	0.017
12	M18x1.5	1810 12 00	22	15	0.024
16	M22x1.5	1810 16 00	27	17	0.041

1822 Barb Adaptor for Hose

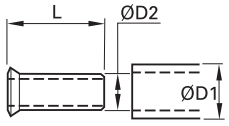
Stainless steel 316L



ØD1	ØD2		ØD3	L	L1	ØT min	kg
6	7	1822 06 07	9	37.5	22.5	6	0.006
8	6	1822 08 06	8	40	22.5	5	0.007
	7	1822 08 07	9	40	22.5	6	0.007
	10	1822 08 10	12.5	40	22.5	9	0.011
10	7	1822 10 07	9	43	22.5	6	0.009
	10	1822 10 10	12.5	43	22.5	9	0.013
12	10	1822 12 10	12.2	43	22.5	9	0.012
	13	1822 12 13	15	50	29.5	13	0.016

1827 Stainless Steel Tube Support

Stainless steel 316L



ØD1	ØD2		L	kg
6	4	1827 06 00	11.5	0.001
8	6	1827 08 00	14	0.001
10	8	1827 10 00	18	0.001
12	9	1827 12 09	18	0.001
	10	1827 12 00	18	0.001
16	14	1827 16 00	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

FBPL
NPT
Page 5-43

F3BPL
BSPT
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F4BPL
BSPP
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F8BPL
Metric
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CBPL
NPT
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C3BPL
BSPT
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C4BPL
BSPP
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C8BPL
Metric
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RBPL
NPT
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R3BPL
BSPT
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SBPL
NPT
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S3BPL
BSPT
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Banjo Fitting

COR4BPL
BSPP
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Tube-to-Tube Fittings

HBPL
Connector
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JBPL
Connector
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WBPL
Bulkhead Connector
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Complementary Fitting

BPLM
Nut
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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

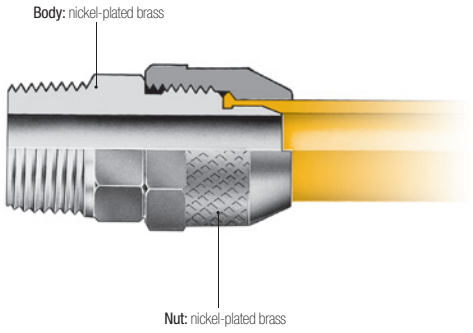
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: contact us
Working Pressure	Vacuum to 40 bar
Working Temperature	-40°C to +100°C

Tensile Performance (polyamide tubing)	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



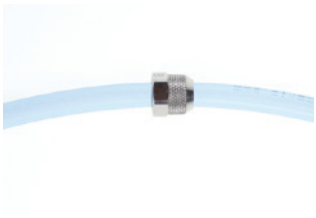
Silicone-free

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.

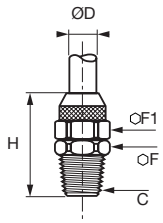
Final Assembly

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

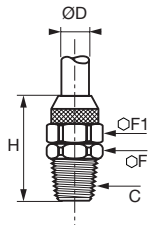
Nickel-plated brass



ØD	C		F	F1	H	kg
2.7x4	NPT1/8	FBPL2.7/4-1/8	11	8	22	0.011
4x6	NPT1/8	FBPL4/6-1/8	11	11	25	0.016
4x6	NPT1/4	FBPL4/6-1/4aV	11	11	29	0.026
6x8	NPT1/8	FBPL6/8-1/8	14	13	25	0.016
6x8	NPT1/4	FBPL6/8-1/4	12	13	29	0.023
8x10	NPT1/4	FBPL8/10-1/4	14	16	30	0.031
8x10	NPT3/8	FBPL8/10-3/8	14	16	31	0.040
10x12	NPT3/8	FBPL10/12-3/8	14	17	33	0.040

F3BPL Stud Fitting, Male BSPT Thread

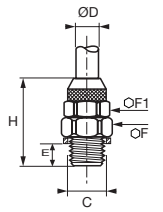
Nickel-plated brass



ØD			F	F1	H	kg
2.7x4	R1/8	F3BPL2.7/4-1/8	10	8	20.5	0.009
4x6	R1/8	F3BPL4/6-1/8	10	11	23.5	0.016
4x6	R1/4	F3BPL4/6-1/4	14	11	26.5	0.025
6x8	R1/8	F3BPL6/8-1/8	12	13	23.5	0.015
6x8	R1/4	F3BPL6/8-1/4	14	13	26.5	0.023
6x8	R3/8	F3BPL6/8-3/8	17	13	27.6	0.026
7.5x10	R1/4	F3BPL7.5/10-1/4	14	16	27.5	0.031
7.5x10	R3/8	F3BPL7.5/10-3/8	17	16	28.6	0.037
8x10	R1/4	F3BPL8/10-1/4	14	16	27.5	0.031
8x10	R3/8	F3BPL8/10-3/8	17	16	28.6	0.043
10x12	R3/8	F3BPL10/12-3/8	17	17	30.1	0.036
11x14	R3/8	F3BPL11/14-3/8	19	22	32.5	0.058

F4BPL Stud Fitting, Male BSPP Thread

Nickel-plated brass

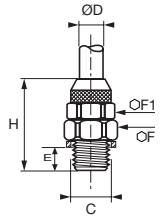


ØD	C		E	F	F1	H	kg
4x6	G1/8	F4BPL4/6-1/8	8	14	11	26	0.021
6x8	G1/4	F4BPL6/8-1/4	9	17	13	28	0.030

These fittings are supplied with a copper seal.

F8BPL Stud Fitting, Male Metric Straight Thread

Nickel-plated brass

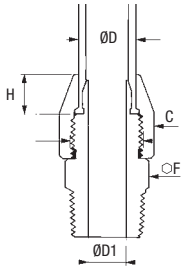


ØD	C		E	F	F1	H	kg
6x8	M10x1	F8BPL6/8M10	7	14	13	28	0.021
6x8	M12x1.25	F8BPL6/8M12	7	17	13	28	0.024

These fittings are supplied with a copper seal.

Fitting Dimensions

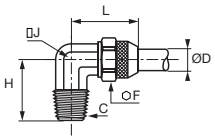
D: Tube O.D. (mm)	C: Metric Thread	D1: Bore Diameter (mm)	F: Hex (mm)	H: Tube Insertion Length (mm)
4x2.7	M6x0.75	1.5	8	4.5
6x4	M9x0.75	3	11	6.5
8x6	M11x0.75	5	13	6.5
10x7.5	M13x1	6.5	17	7
10x8	M13x1	6.5	17	7
12x10	M15x1.25	9	17	7.5
14x11	M18x1.50	9.5	22	8.5



Stud Fittings

CBPL Stud Elbow, Male NPT Thread

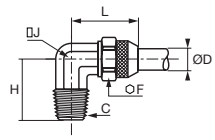
Nickel-plated brass



ØD	C		F	H	J	L	kg
2.7x4	NPT1/8	CBPL2.7/4-1/8	8	18	8	22	0.019
4x6	NPT1/8	CBPL4/6-1/8	11	18	8	24	0.023
4x6	NPT1/4	CBPL4/6-1/4	11	23	10	25	0.036
6x8	NPT1/8	CBPL6/8-1/8	13	19	10	25	0.027
6x8	NPT1/4	CBPL6/8-1/4	13	23	10	25	0.034
8x10	NPT1/4	CBPL8/10-1/4	16	24	12	28	0.058
8x10	NPT3/8	CBPL8/10-3/8	16	25	12	28	0.059
10x12	NPT3/8	CBPL10/12-3/8	17	27	14	32	0.051

C3BPL Stud Elbow, Male BSPT Thread

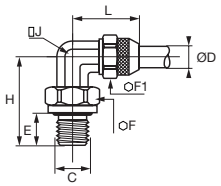
Nickel-plated brass



ØD	C		F	H	J	L	kg
2.7x4	R1/8	C3BPL2.7/4-1/8	8	17	8	22	0.018
4x6	R1/8	C3BPL4/6-1/8	11	17	8	24	0.022
4x6	R1/4	C3BPL4/6-1/4	11	21.5	10	25	0.031
6x8	R1/8	C3BPL6/8-1/8	13	18	10	25	0.025
6x8	R1/4	C3BPL6/8-1/4	13	21.5	10	25	0.031
6x8	R3/8	C3BPL6/8-3/8	13	23.1	12	27	0.050
7.5x10	R1/4	C3BPL7.5/10-1/4	16	22.5	12	28	0.057
7.5x10	R3/8	C3BPL7.5/10-3/8	16	23.1	12	28	0.058
8x10	R1/4	C3BPL8/10-1/4	16	21.5	12	28	0.057
8x10	R3/8	C3BPL8/10-3/8	16	23.1	12	28	0.058
10x12	R3/8	C3BPL10/12-3/8	17	25.1	14	32	0.052
11x14	R3/8	C3BPL11/14-3/8	22	25.1	16	34	0.094

C4BPL Stud Elbow, Male BSPP Thread

Nickel-plated brass, NBR

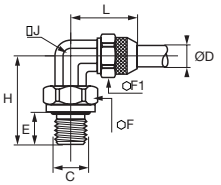


ØD	C		E	F	F1	H	J	L	kg
6x8	G1/4	C4BPL6/8-1/4	7	13	13	27	12	27	0.063

These fittings are supplied with nitrile seals.

C8BPL Stud Elbow, Male Metric Straight Thread

Nickel-plated brass, NBR



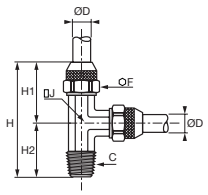
ØD	C		E	F	F1	H	J	L	kg
6x8	M10x1	C8BPL6/8M10	7	14	13	27.25	10	21,5	0.031
6x8	M12x1	C8BPL6/8M12	7	13	13	26	12	25	0.063

These fittings are supplied with nitrile seals.

Stud Fittings

RBPL Stud Run Tee, Male NPT Thread

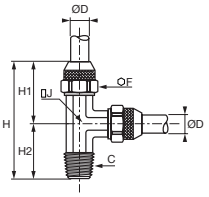
Nickel-plated brass



ØD	C		F	H	H1	H2	J	kg
4x6	NPT1/8	RBPL4/6-1/8	11	42	24	18	8	0.037
4x6	NPT1/4	RBPL4/6-1/4	11	48	25	23	10	0.050
6x8	NPT1/4	RBLP6/8-1/4	13	48	25	23	10	0.046

R3BPL Stud Run Tee, Male BSPT Thread

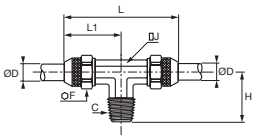
Nickel-plated brass



ØD	C		F	H	H1	H2	J	kg
4x6	R1/8	R3BPL4/6-1/8	11	42	24	17	8	0.035
4x6	R1/4	R3BPL4/6-1/4	11	48	25	21.5	10	0.048
6x8	R1/8	R3BPL6/8-1/8	13	44	25	18	10	0.037
6x8	R1/4	R3BLP6/8-1/4	13	48	25	21.5	10	0.045

SBPL Stud Branch Tee, Male NPT Thread

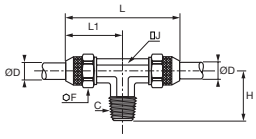
Nickel-plated brass



ØD	C		F	H	J	L	L1	kg
4x6	NPT1/8	SBPL4/6-1/8	11	18	8	48	24	0.035
4x6	NPT1/4	SBPL4/6-1/4	11	23	10	50	25	0.050
6x8	NPT1/4	SBPL6/8-1/4	13	23	10	50	25	0.049

S3BPL Branch Tee, Male BSPT Thread

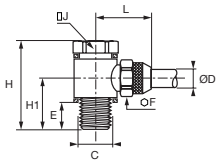
Nickel-plated brass



ØD	C		F	H	J	L	L1	kg
4x6	R1/8	S3BPL4/6-1/8	11	17	8	48	24	0.035
4x6	R1/4	S3BPL4/6-1/4	11	21.5	10	50	25	0.048
6x8	R1/8	S3BPL6/8-1/8	13	18	10	50	25	0.037
6x8	R1/4	S3BLP6/8-1/4	13	21.5	10	50	25	0.045

COR4BPL Single Banjo, Male BSPP Thread

Nickel-plated brass



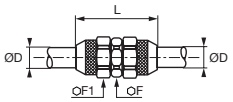
ØD	C		E	F	F1	H	H1	L	kg
4x6	G1/8	COR4BPL4/6-1/8	7	14	11	27	16	24	0.068
4x6	G1/4	COR4BPL4/6-1/4	8	19	11	29	17	26	0.096
6x8	G1/8	COR4BPL6/8-1/8	7	14	13	27	16	25	0.068
6x8	G1/4	COR4BLP6/8-1/4	8	19	13	30	17	27	0.096

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

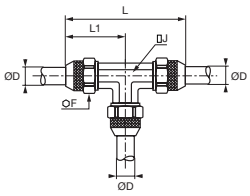
Nickel-plated brass



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

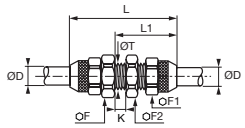
Nickel-plated brass



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

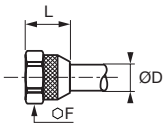
Nickel-plated brass



ØD		F	F1	F2	K max	L	L1	T min	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

legris

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_2, 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
2/2
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

Applications

Pneumatics
Vacuum
Transportation
Packaging
Textile
Sawmill
Rubber & Plastics

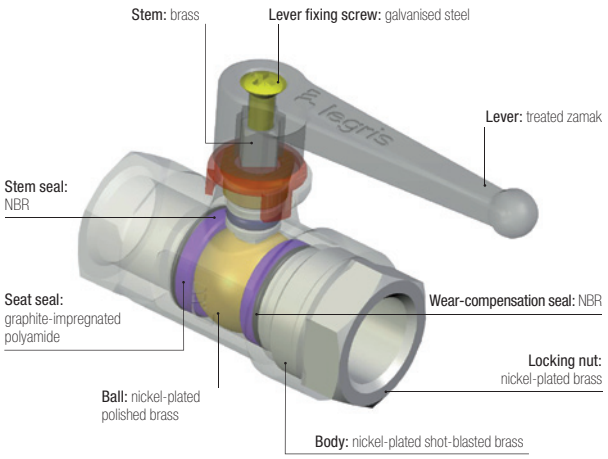
Technical Characteristics

Compatible Fluids	Industrial fluids
Working Pressure	Vacuum to 40 bar
Working Temperature	-20°C to + 80°C

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

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

Component Materials



Silicone-free

Regulations

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

Universal 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

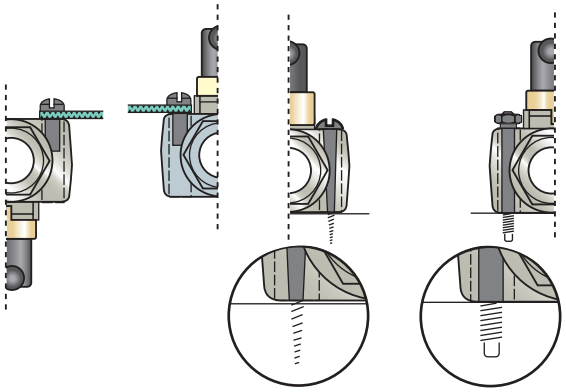
Fluid flow direction is indicated by an arrow on the valve body.

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** Thread: **04** Suffix: **10** **22**

Valve type
- 0400
- 0401
- 0402
- ...

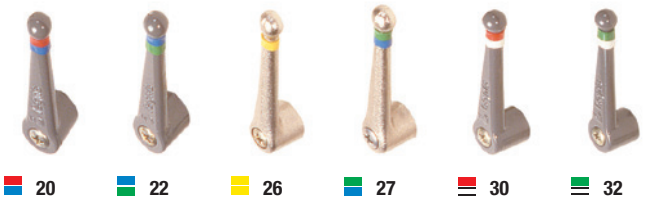
DN
- 04 = 4 mm
- 05 = 5 mm
- ...
- 40 = 40 mm

Thread
- 10 = 1/8"
- 13 = 1/4"
- ...
- 48 = 2"

Suffix
- 20 = blue/red
- 22 = green/blue
- 26 = yellow/yellow
- 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-impreg-nated	Filled PTFE	PTFE white	
20		●		●			●			●		●			Hydrocarbons
22		●		●				●		●			●		Industrial fluids and high temperature
26*		●			●			●			● olive			●	Corrosive liquids or high temperature
27			●			●		●		●			●		Industrial fluids and/or harsh environments
30**		●		●			●		●			●			Gaseous oxygen circuits
32		●		●				●	●				●		Water and steam circuits

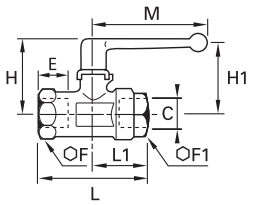
*degreased **oxygen-compatible grease

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

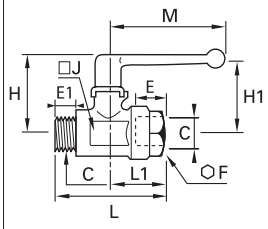


C	DN		E	F	F1	H	H1	L	L1	M	kg
G1/8	4	0402 04 10	8	-	14	35	29	44	25	48	0.094
	7	0402 07 10	8	19	19	38	31	51	27	48	0.166
G1/4	7	0402 07 13	12	19	19	38	31	53	28	48	0.156
G3/8	10	0402 10 17	12	24	24	45	43	59	31	69	0.244
G1/2	13	0402 13 21	15	27	27	47	44	67	34	69	0.292
G3/4	20	0402 20 27	16.5	32	38	63	54	80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

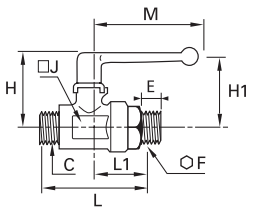


C	DN		E	E1	F	H	H1	J	L	L1	M	kg
G1/8	4	0401 04 10	8	7	14	35	29	14	45	25	48	0.094
	5	0401 05 10	8	7	19	38	31	19	51	27	48	0.160
G1/4	7	0401 07 13	12	9	19	38	31	19	52	28	48	0.150
G3/8	10	0401 10 17	12	11	24	45	43	24	58	31	69	0.234
G1/2	13	0401 13 21	15	12	27	47	44	27	66	34	69	0.286
G3/4	18	0401 18 27	16.5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

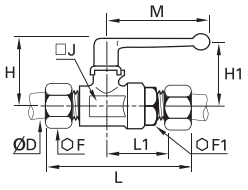


C	DN		E	F	H	H1	J	L	L1	M	kg
G1/8	4	0400 04 10	7	14	35	29	14	45	25	48	0.094
G1/4	7	0400 07 13	9	19	38	31	19	60	36	48	0.166
G3/8	10	0400 10 17	11	24	45	43	24	70	43	69	0.252
G1/2	13	0400 13 21	12	27	47	44	27	78	45	69	0.324
G3/4	18	0400 18 27	12	38	63	54	39	90	50	108	0.714

Maximum working pressure: 40 bar

0411 2/2 In-Line Ball Valve with Connections for Use with Steel Tube

Nickel-plated brass, NBR

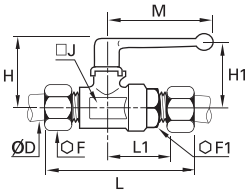


ØD	DN		F	F1	H	H1	J	L	L1	M	kg
6	4	0411 04 06	14	19	38	31	19	76	30	48	0.073
8	6	0411 06 08	17	19	38	31	19	77	30	48	0.095
10	7	0411 07 10	19	19	38	31	19	78	31	48	0.100
12	10	0411 10 12	22	24	45	43	24	85	36	69	0.110

Maximum working pressure: 40 bar

0414 2/2 In-Line Ball Valve with Compression Connections

Nickel-plated brass, NBR



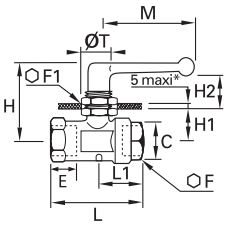
ØD	DN		F	F1	H	H1	J	L	L1	M	kg
6	4	0414 04 06	13	19	38	31	19	72	31	48	0.177
8	6	0414 06 08	14	19	38	31	19	74	30	48	0.180
10	7	0414 07 10	19	19	38	31	19	78	31	48	0.210
12	10	0414 10 12	22	24	45	43	24	86	36	69	0.308

Maximum working pressure: 40 bar

Universal and Universal Customised Series

0446 2/2 In-Line Panel-Mountable Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

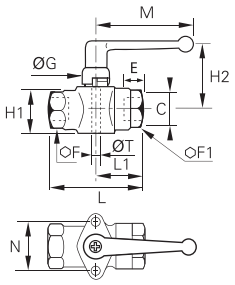


C	DN		E	F	F1	H	H1	H2	L	L1	M	ØT	kg
G1/8	4	0446 04 10	8	14	22	37	14	12	44	25	48	16.5	0.112
G1/4	7	0446 07 13	12	19	24	45	19	14	53	28	48	20.5	0.188
G3/8	10	0446 10 17	12	24	27	50	21	21	59	31	69	20.5	0.294
G1/2	13	0446 13 21	15	27	27	51	23	21	67	34	69	20.5	0.338

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

Nickel-plated brass, NBR

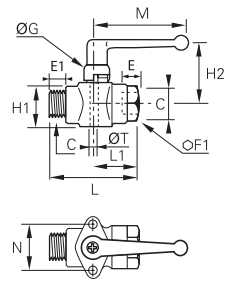


C	DN		E	F	F1	G	H1	H2	L	L1	M	N	ØT	kg
G1/8	4	6402 04 10	8	14	14	18	18	30	44	25	48	25	4x70	0.132
G1/4	7	6402 07 13	12	19	19	19	24	31	53	28	48	31	5x80	0.216
G3/8	10	6402 10 17	12	24	24	20	30	45	59	31	69	31	5x80	0.324
G1/2	13	6402 13 21	15	27	27	20	34	47	67	34	69	34	6x100	0.404
G3/4	20	6402 20 27	16.5	32	38	27	44	52	80	39	108	43	8x125	0.830
G1	23	6402 23 34	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

Nickel-plated brass, NBR

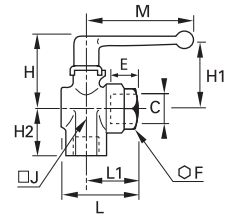


C	DN		E	E1	F	G	H1	H2	L	L1	M	N	ØT	kg
G1/8	4	6401 04 10	8	7	14	18	18	30	45	25	48	25	4x70	0.127
G1/4	7	6401 07 13	12	9	19	19	24	31	52	28	48	31	5x80	0.212
G3/8	10	6401 10 17	12	11	24	20	30	45	58	31	69	31	5x80	0.306
G1/2	13	6401 13 21	15	12	27	20	34	47	67	34	69	34	6x100	0.394

Maximum working pressure: 40 bar

0472 2/2 Right-Angled Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

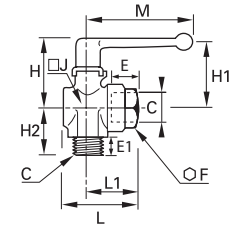


C	DN		E	F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0472 04 10	8	14	35	29	18	14	34	25	48	0.096
	6	0472 06 10	8	19	38	31	20	22	37	27	48	0.183
G1/4	6	0472 06 13	12	19	38	31	24	22	38	28	48	0.191
G3/8	9	0472 09 17	12	24	45	43	27	25	46	31	69	0.260
G1/2	12	0472 12 21	15	27	47	44	33	29	49	34	69	0.312
G3/4	18	0472 18 27	16.5	38	59	51	40	39	60	39	108	0.704
G1	23	0472 23 34	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

Nickel-plated brass, NBR



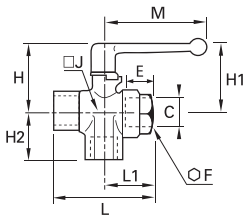
C	DN		E	E1	F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0471 04 10	8	7	14	35	29	19	14	34	25	48	0.096
	6	0471 06 10	8	7	19	38	31	22	22	37	27	48	0.182
G1/4	6	0471 06 13	12	9	19	38	31	25	22	38	28	48	0.187
G3/8	9	0471 09 17	12	11	24	45	43	28	25	46	31	69	0.256
G1/2	12	0471 12 21	15	12	27	47	44	32	29	49	34	69	0.300
G3/4	18	0471 18 27	16.5	12	38	59	51	37	39	60	39	108	0.682
G1	23	0471 23 34	19	15	46	63	55	44	48	72	47	108	1.020

Maximum working pressure: 20 bar

Universal and Universal Customised Series

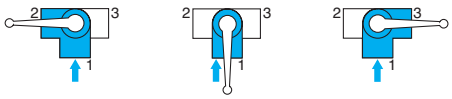
0482 3/3 Right-Angle Ported Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



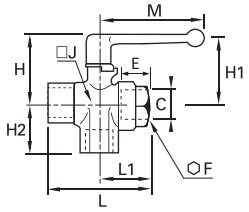
C	DN		E	F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0482 04 10	8	14	35	29	18	14	44	25	48	0.103
G1/4	6	0482 06 13	12	19	38	31	24	22	53	28	48	0.200
G3/8	9	0482 09 17	12	24	45	43	27	25	59	31	69	0.284
G1/2	12	0482 12 21	15	27	47	44	33	29	67	34	69	0.346
G3/4	18	0482 18 27	16.5	38	59	51	40	39	80	39	108	0.742
G1	23	0482 23 34	19	46	63	55	47	48	94	47	108	1.160

Maximum working pressure: 20 bar



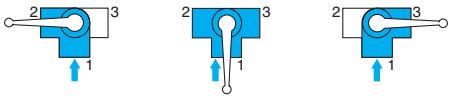
0483 3/3 Right-Angle Ported Ball Valve without Closed Position, Female BSPP Thread

Nickel-plated brass, NBR



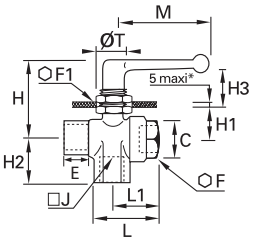
C	DN		E	F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0483 04 10	8	14	35	29	18	14	44	25	48	0.102
G1/4	6	0483 06 13	12	19	38	31	24	22	53	28	48	0.196
G3/8	9	0483 09 17	12	24	45	43	27	25	59	31	69	0.278
G1/2	12	0483 12 21	15	27	47	44	33	29	67	34	69	0.340
G3/4	18	0483 18 27	16.5	38	59	51	40	39	80	39	108	0.716
G1	23	0483 23 34	19	46	63	55	47	48	94	47	108	1.066

Maximum working pressure: 20 bar



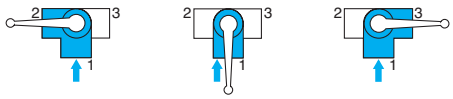
0448 3/2 Panel-Mountable Right-Angled Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



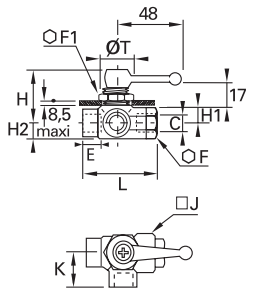
C	DN		E	F	F1	H	H1	H2	H3	J	L	L1	M	ØT	kg
G1/8	4	0448 04 10	8	14	22	37	14	18	12	14	44	25	48	16.5	0.126
G1/4	6	0448 06 13	12	19	24	45	19	24	14	22	53	28	48	20.5	0.230
G3/8	9	0448 09 17	12	24	27	50	21	27	21	25	59	31	69	20.5	0.328
G1/2	12	0448 12 21	15	27	27	51	23	33	21	29	67	34	69	20.5	0.392

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



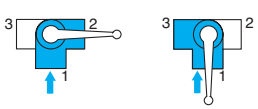
0452 3/2 Panel-Mountable Equal Plane Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



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

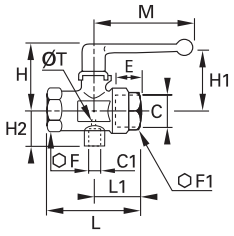
Maximum working pressure: 20 bar



Universal Series, Vented

0489 3/2 In-Line Vented Ball Valve, Female BSPP and Metric Thread

Nickel-plated brass, NBR

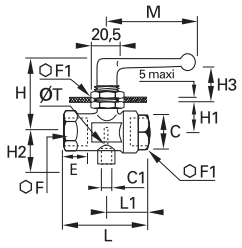


C	C1	DN		E	F	F1	H	H1	H2	L	L1	M	ØT	kg
G1/4	M5x0.8	7	0489 07 13	12	24	24	46	43	17	59	31	69	2	0.270
G3/8	M5x0.8	10	0489 10 17	12	24	24	46	43	17	59	31	69	2	0.243
G1/2	G1/8	13	0489 13 21	15	27	27	47	44	24	67	34	69	2	0.310
G3/4	G1/4	18	0489 18 27	16.5	32	38	63	54	33	80	39	108	2.5	0.670
G1	G1/4	23	0489 23 34	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

Nickel-plated brass, NBR

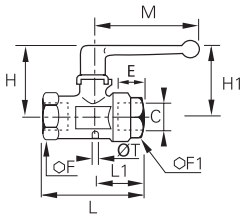


C	C1	DN		E	F	F1	H	H1	H2	H3	L	L1	M	ØT	kg
G1/4	M5x0.8	7	0449 07 13	12	24	27	50	20	17	21	59	31	69	2.5	0.313
G3/8	M5x0.8	10	0449 10 17	12	24	27	50	20	17	21	59	31	69	2.5	0.291
G1/2	G1/8	13	0449 13 21	15	27	27	52	23	24	21	67	34	69	4	0.352

Maximum working pressure: 20 bar

0469 3/2 In-Line Vented Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

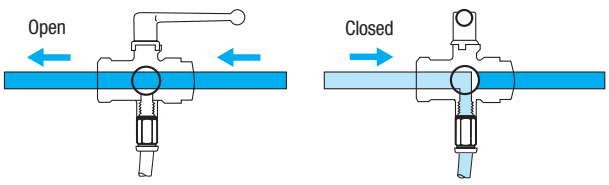


C	DN		E	F	F1	H	H1	L	L1	M	ØT	kg
G1/8	4	0469 04 10	8	14	14	35	29	44	25	48	1.5	0.092
G1/4	7	0469 07 13	12	24	24	46	43	59	31	70	2	0.268
G3/8	10	0469 10 17	12	24	24	46	43	59	31	70	2	0.246
G1/2	13	0469 13 21	15	27	27	47	44	67	34	70	2	0.294
G3/4	18	0469 18 27	16.5	32	38	63	54	80	39	108	2.5	0.668
G1	23	0469 23 34	19	41	46	67	57	94	47	108	3	1.026

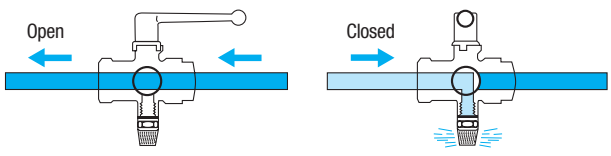
Maximum working pressure: 40 bar

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

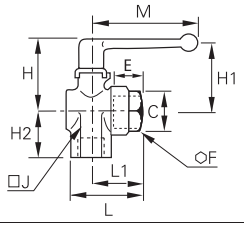


You will find our ranges of fittings, tubing and silencers in Chapters 1, 3 and 9.

Universal Series, Vented

0462 3/2 Right-Angled Ball Valve with Vent, Female BSPP Thread

Nickel-plated brass, NBR

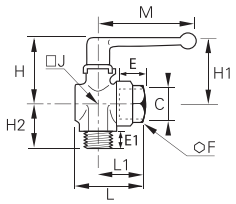


C	DN		E	F	H	H1	H2	J	L	L1	M	kg
G1/8	6	0462 06 10	8	19	38	31	20	22	37	27	48	0.192
G1/4	6	0462 06 13	12	19	38	31	24	22	38	28	48	0.185
G3/8	9	0462 09 17	12	24	45	43	27	25	46	31	69	0.261
G1/2	12	0462 12 21	15	27	47	44	33	29	49	34	69	0.312
G3/4	18	0462 18 27	16.5	38	59	51	40	39	60	39	108	0.698
G1	23	0462 23 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

Nickel-plated brass, NBR

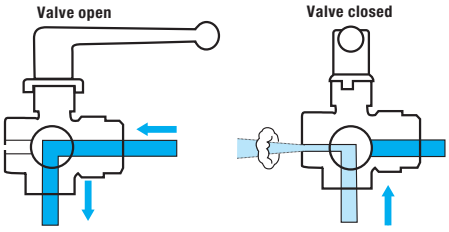


C	DN		E	E1	F	H	H1	H2	J	L	L1	M	kg
G1/8	6	0461 06 10	8	7	19	38	31	20	22	37	27	48	0.182
G1/4	6	0461 06 13	12	9	19	38	31	24	22	38	28	48	0.186
G3/8	9	0461 09 17	12	11	24	45	43	27	25	46	31	69	0.257
G1/2	12	0461 12 21	15	12	27	47	44	33	29	49	34	69	0.304
G3/4	18	0461 18 27	16.5	12	38	59	51	40	39	60	39	108	0.648

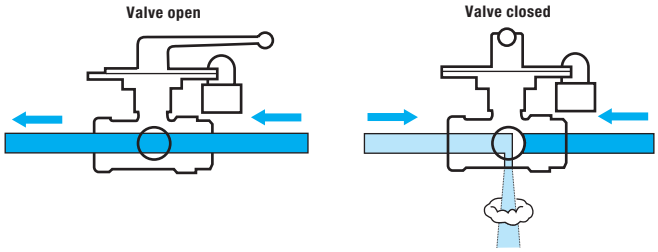
Maximum working pressure: 20 bar

Operation of Right-Angled Vented Ball Valves

With pin-hole vent = purge to atmosphere without silencer



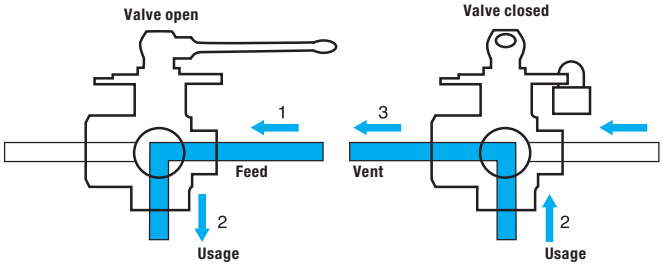
Operation of Lockable Vented Ball Valves



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.

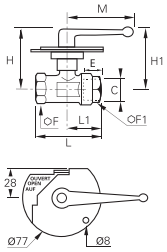


Removable lever: where the lever is obstructed in its movement, it can be refitted the opposite way.

Universal Series, Lockable

0432 2/2 In-Line Lockable Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

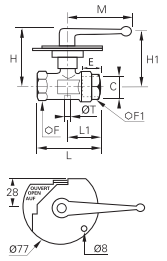


C	DN		E	F	F1	H	H1	L	L1	M	kg
G1/8	4	0432 04 10	8	19	19	59	54	51	27	69	0.415
G1/4	7	0432 07 13	12	19	19	59	54	59	28	69	0.396
G3/8	10	0432 10 17	12	24	24	60	55	59	31	69	0.460
G1/2	13	0432 13 21	15	27	27	62	57	67	34	69	0.522
G3/4	20	0432 20 27	16.5	32	38	66	56	80	39	108	0.800
G1	23	0432 23 34	19	41	46	70	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

Nickel-plated brass, NBR

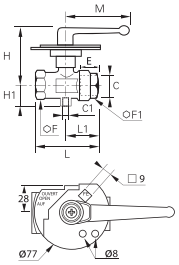


C	DN		E	F	F1	H	H1	L	L1	M	ØT	kg
G1/8	4	0439 04 10	8	19	19	59	54	51	27	69	2	0.410
G1/4	7	0439 07 13	12	19	24	60	55	59	31	69	2	0.480
G3/8	10	0439 10 17	12	24	24	60	55	59	31	69	2	0.460
G1/2	13	0439 13 21	15	27	27	62	57	67	34	69	2	0.514
G3/4	18	0439 18 27	16.5	32	38	66	56	80	39	108	2.5	0.810
G1	23	0439 23 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

Nickel-plated brass, NBR

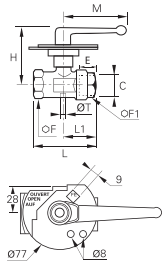


C	C1	DN		E	F	F1	H	H1	L	L1	M	kg
G3/8	M5x0.8	10	0436 10 17	12	24	24	60	17	60	32	69	0.475
G1/2	G1/8	13	0436 13 21	15	27	27	60	24.5	67.5	34.5	69	0.500
G3/4	G1/4	18	0436 18 27	16.5	32	38	69.5	33	80	39.5	108	0.850
G1	G1/4	23	0436 23 34	19	32	38	69.5	33	80	39.5	108	1.215

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

Nickel-plated brass, NBR

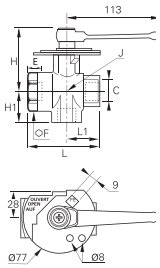


C	DN		E	F	F1	H	L	L1	M	ØT	kg
G1/4	7	0437 07 13	12	24	24	60	59	32	69.5	2	0.476
G3/8	10	0437 10 17	12	24	24	60	60	32	69.5	2	0.456
G1/2	13	0437 13 21	15	27	27	60	67.5	34.5	69.5	2	0.510
G3/4	18	0437 18 27	16.5	32	38	69.5	80	39.5	108.5	2.5	0.820
G1	23	0437 23 34	19	41	46	73	94.5	47.5	108.5	3	1.192

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

Nickel-plated brass, NBR



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

Easy-to-Use

- Ease of operation due to the low friction design
- The short levers may be repositioned and exchanged
- Extremely compact
- Wide range of configurations

Maximum Efficiency

- Excellent performance under vacuum
- Full flow
- Chemical nickel-plated brass with high phosphorous content for outstanding corrosion resistance
- Automatic seal wear compensation system

Reliability

- 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

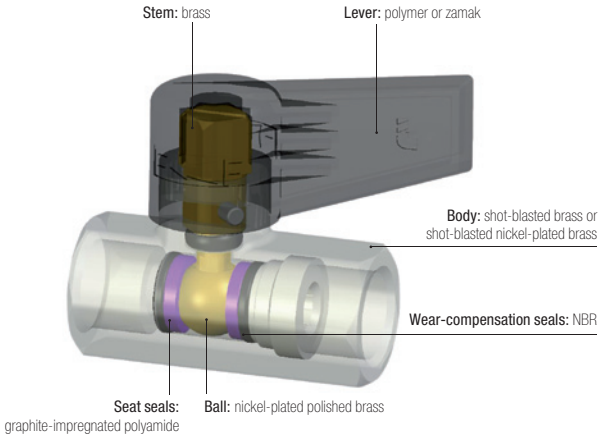
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: see compatibility chart at the end of this chapter
Working Pressure	Vacuum to 12 bar
Working Temperature	-20°C to +80°C

Tightening Torques	**Threads**	G1/8	G1/4	G3/8	G1/2	G3/4
	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

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

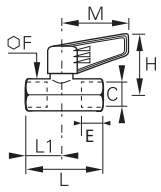
Regulations

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

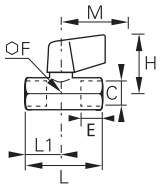


C	DN		E	F	H	L	L1	M	kg
G1/4	4	0492 04 13	9	17	34	39.5	17	35	0.073
G3/8	7	0492 07 17	11	22	38	45	20	43	0.128
G1/2	10	0492 10 21	12	24	44	54	25	50	0.162
G3/4	13	0492 13 27	14	30	46	62	28	50	0.240

Technical polymer handle

0492..64 2/2 In-Line Ball Valve, Short Handle, Female BSPP Thread

Nickel-plated brass, NBR

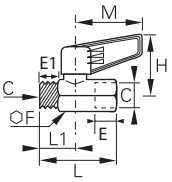


C	DN		E	F	H	L	L1	M	kg
G1/4	4	0492 04 13 64	9	17	36	39.5	17	25	0.090

Short handle in zamak

0491 2/2 In-Line Ball Valve, Male/Female BSPP Thread

Nickel-plated brass, NBR

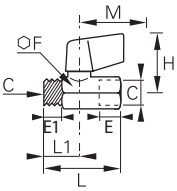


C	DN		E	E1	F	H	L	L1	M	kg
G1/4	4	0491 04 13	9	7	17	34	39.5	17	35	0.070
G3/8	7	0491 07 17	11	8	22	38	45	20	43	0.124
G1/2	10	0491 10 21	12	10	24	44	53	24	50	0.160
G3/4	13	0491 13 27	14	12	30	46	59	25	50	0.238

Technical polymer handle

0491..64 2/2 In-Line Ball Valve, Short Handle, Male/Female BSPP Thread

Nickel-plated brass, NBR

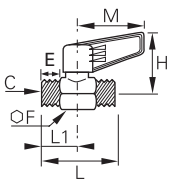


C	DN		E	E1	F	H	L	L1	M	kg
G1/4	4	0491 04 13 64	9	7	17	36	39.5	17	25	0.092

Short handle in zamak

0490 2/2 In-Line Ball Valve, Male BSPP Thread

Nickel-plated brass, NBR



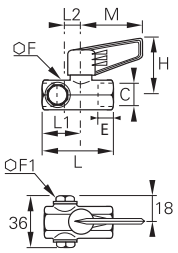
C	DN		E	F	H	L	L1	M	kg
G1/4	4	0490 04 13	7	17	34	39	17	35	0.070
G3/8	7	0490 07 17	8	22	38	44	20	43	0.109
G1/2	10	0490 10 21	10	24	44	53	24	50	0.160
G3/4	13	0490 13 27	12	30	46	59	25	50	0.233

Technical polymer handle

Universal Light Series

0494 2/2 In-Line Ball Valve, 2 Vent Plugs, Female BSPP Thread

Nickel-plated brass, NBR

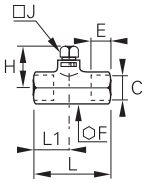


C	DN		E	F	F1	H	L	L1	L2	M	kg
G3/8	7	0494 07 17	11	22	16	38	60	20	15	43	0.178

Technical polymer handle

0497 2/2 Ball Valve, Square Stem, Female BSPP Thread

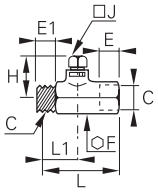
Brass, NBR



C	DN		E	F	H	J	L	L1	kg
G1/4	4	0497 04 13	9	17	25	7	39	17	0.066
G3/8	7	0497 07 17	11	22	26	7	45	20	0.122
G1/2	10	0497 10 21	12	24	29	10	54	25	0.148
G3/4	13	0497 13 27	14	30	30	10	62	28	0.230

0496 2/2 Ball Valve, Square Stem, Male/Female BSPP Thread

Brass, NBR



C	DN		E	E1	F	H	J	L	L1	kg
G1/4	4	0496 04 13	7	9	17	25	7	39	17	0.065
G3/8	7	0496 07 17	8	11	22	26	7	45	20	0.118
G1/2	10	0496 10 21	10	12	24	29	10	53	24	0.150
G3/4	13	0496 13 27	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

Applications

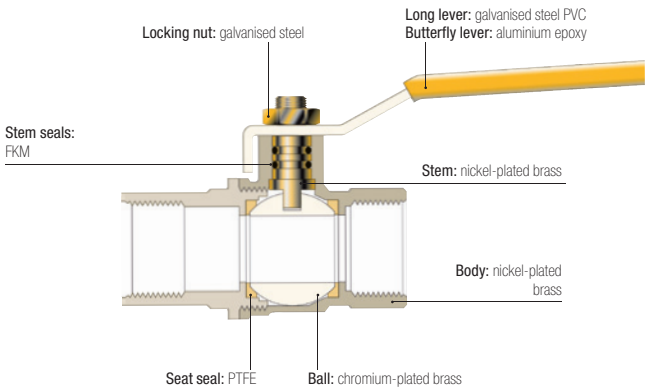
Robotics
Pneumatics
Water & Gas Handling
Machine Tools
Textile
Wood Industry

Technical Characteristics

Compatible Fluids	Compressed air, water, gas
Working Pressure	1/4" to 2": 0 to 40 bar
Working Temperature	-40°C to +170°C

Reliable performance is dependent upon the type of fluid conveyed.

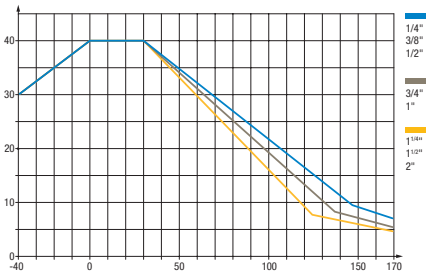
Component Materials



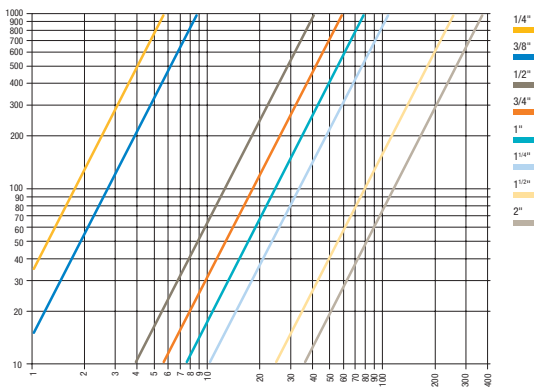
Silicone-free

Working Pressure and Temperature

Pressure - Temperature



Pressure Drop



Regulations

Industrial
DI: 97/23/EC
(PED B+D module EC 1115)

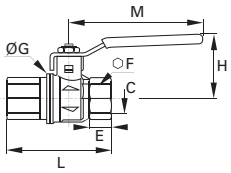
Water
DVGW: W 570-1
DIN EN 13228
BGA KTW
DVGW: W270

Gas
DIN EN 33

DVGW Series

BVG4-L 2/2 In-Line Ball Valve, Female BSPP Thread

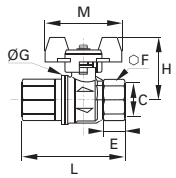
Nickel-plated brass , PTFE



C	DN		E	F	ØG	H	L	M	kg
G1/4	8	BVG4-1/4L	12	20	25	38	50	82	0.150
G3/8	10	BVG4-3/8L	12	20	25	38	60	82	0.150
G1/2	15	BVG4-1/2L	15.5	25	32.5	43	75	100	0.255
G3/4	20	BVG4-3/4L	17	32	39	50	80	120	0.390
G1	25	BVG4-1L	21	41	47.5	54	90	120	0.590
G1¼	32	BVG4-1,1/4L	23	50	59	73	110	158	0.980
G1½	40	BVG4-1,1/2/4L	23	55	71.5	79	120	158	1.205
G2	50	BVG4-2L	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	BVGT4-1/4L	12	20	25	39	50	50	0.150
G3/8	10	BVGT4-3/8L	12	20	25	39	60	50	0.150
G1/2	15	BVGT4-1/2L	15.5	25	32.5	43	75	50	0.230
G3/4	20	BVGT4-3/4L	17	32	39	47	80	60	0.350
G1	25	BVGT4-1L	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

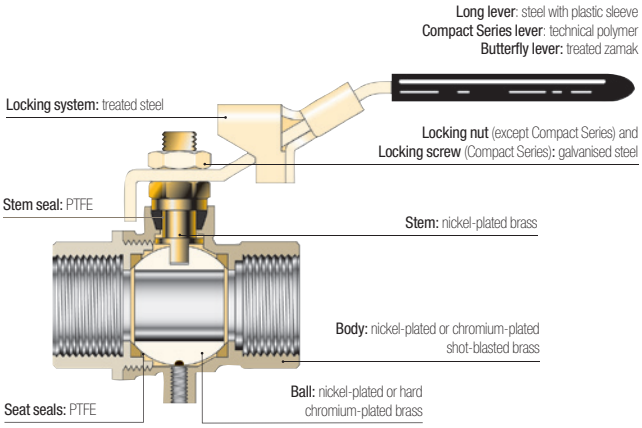
Machine Tool
Agricultural Machinery
Textile
Pneumatics
Plumbing
Air Conditioning
Heating

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

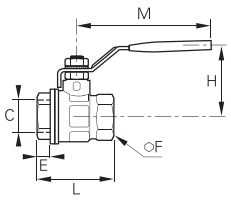
Regulations

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

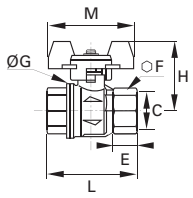


C	DN		PN	E	F	H	L	M	kg
G1/4	10	4902 10 13	30	11	20	43	51.5	98	0.154
G3/8	10	4902 10 17	30	11.4	20	43	51.5	98	0.138
G1/2	15	4902 15 21	30	13.5	25	47	55	98	0.202
G3/4	20	4902 20 27	30	12.5	31	58	57.5	122	0.322
G1	25	4902 25 34	30	15	38	60	69.5	122	0.468
G1¼	32	4902 32 42*	25	17	48	77	81.5	153	0.794
G1½	40	4902 40 49*	25	18	54	83	95	153	1.082
G2	50	4902 50 48*	25	22	66	95	113	162	1.787
G2½	65	4902 65 47*	30	22	85	132	136	255	4.500
G3	80	4902 80 46*	30	25	99	140	157	255	5.840
G4	100	4902 01 45*	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

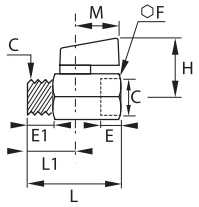


C	DN		E	F	G	H	L	M	kg
G1/4	8	BVGT4-1/4C	9	20	25	40	39	50	0.130
G3/8	10	BVGT4-3/8C	9	20	25	40	39	50	0.120
G1/2	15	BVGT4-1/2C	11	25	32.5	44	50	50	0.180
G3/4	20	BVGT4-3/4C	12	31	39	49	54	50	0.265
G1	25	BVGT4-1C	14	38	47.5	53	67	50	0.390

Compact lever

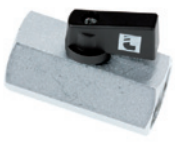
4991 2/2 Standard Compact In-Line Ball Valve, Male/Female BSPP Thread

Chromium-plated brass, PTFE

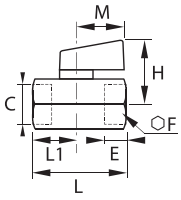


C	DN		E	E1	F	H	L	L1	M	kg
G1/8	6	4991 00 10	10	10	21	30	41.5	10	24	0.091
G1/4	8	4991 00 13	11	11	21	30	41.5	11	24	0.087
G3/8	8	4991 00 17	11	11	21	30	41.5	10.5	24	0.087
G1/2	10	4991 00 21	13	13	25	32	49	12.5	24	0.134

4992 2/2 Standard Compact In-Line Ball Valve, Female BSPP Thread



Chromium-plated brass, PTFE



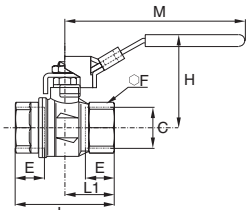
C	DN		E	F	H	L	L1	M	kg
G1/8	6	4992 00 10	10	21	30	41.5	10	24	0.110
G1/4	8	4992 00 13	11	21	30	41.5	11	24	0.106
G3/8	8	4992 00 17	11	21	30	41.5	10.5	24	0.094
G1/2	10	4992 00 21	13	25	32	49	12.5	24	0.142

Standard Series

BVG4-LOCK

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

Sand-blasted nickel-plated brass, PTFE

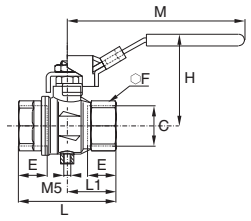


C	DN		E	F	H	L	L1	M	kg
G1/4	8	BVG4-1/4LOCK	12	20	47.5	45	22.5	96	0.154
G3/8	10	BVG4-3/8LOCK	12	20	47.5	45	22.5	96	0.171
G1/2	15	BVG4-1/2LOCK	15.5	25	52	59	29.5	96	0.238
G3/4	20	BVG4-3/4LOCK	17	31	59.5	64	32	117	0.370
G1	25	BVG4-1LOCK	21	40	63.5	81	40.5	117	0.580

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	BVG4P-1/4LOCK	12	20	47.5	45	22.5	96	0.155
G3/8	10	BVG4P-3/8LOCK	12	20	47.5	45	22.5	96	0.172
G1/2	15	BVG4P-1/2LOCK	15.5	25	52	59	29.5	96	0.239
G3/4	20	BVG4P-3/4LOCK	17	31	59.5	64	32	117	0.371
G1	25	BVG4P-1LOCK	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_2	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_2CH_3	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_4	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^2	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: 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
Oils "synthetic"	20	-20	+100									●
Ordinary petrol	20	-20	+40	●	●							
Oxygenated water	40	-20	+30				●					
Paints and relevant solvents	20	-20	+60		●	●			●			
Paraffin oil	40	-20	+90	●	●	●						
Paraffins	20	-20	+60	●	●	●						
Pentane (liquid hydrocarbon)	20	-20	+60	●	●	●						
Pentanols 1 and 2	20	-20	Boiling									●
Petrol "super"	20	-20	+40				●					
Petroleum mineral oils	20	-20	+160					●				
Phenol (aqueous or alcoholic)	20	-20	+60		●	●			●			
Propane	20	-20	+60	●	●	●						
Propanols 1 and 2	20	-20	Boiling									●
Propanone 2	20	-20	+60									●
Propene or Propylene	20	-20	+60					●				
Propyl alcohol	20	-20	Boiling									●
Propylene or Propene	20	-20	+60					●				
Rapeseed oil	40	-20	+90	●	●							
Saponifying liquids	20	-20	+30	●	●	●						
Seawater	40		+80	●	●	●						
Seawater (high temperature)	20		+150			●				●		
Soaps	20	-20	+100									●
Soaps (liquid or paste)	40	-20	+40	●	●	●						
Sodium carbonate (with water)	20	0	+40	●	●	●						
Starch (gels or pastes)	40	+10	+40	●	●	●						
Steam	20	-20	+150									●
Toluene (terpenic hydrocarbon)	20	-20	+60		●	●			●			
Trichlorethylene	20	-20	+65					●				
Turpentine	20	-20	+50	●	●	●						
Varnish and paints	20	-20	+60		●	●			●			
Vaseline	40	-20	+60	●	●	●						
Vaseline oil	40	-20	+90	●	●	●						
Water (carbonated)	40		+90	●	●	●						
Water (high temperature)	20		+150			●						●
Xenon (gas) Xe	20	-20	+60	●	●	●						
Xylene	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, 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

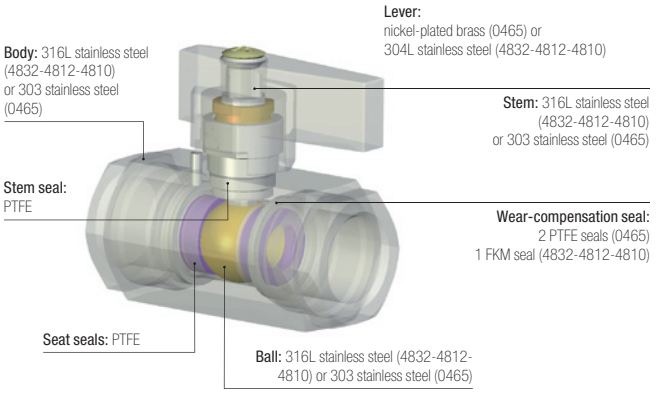
Food Process
Aviation
Chemical
Semi-Conductors
Medical
Petrochemical
Laboratories
Pharmaceutical

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

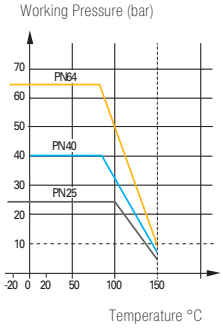
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.
Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

Component Materials



Pressure and Temperature Resistance

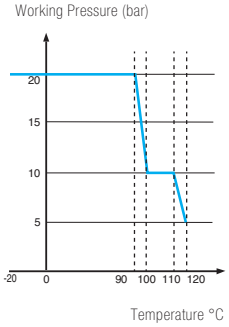
Version 4810, 4812 and 4832



Examples at +100°C:
PN 64: 48 bar
PN 40: 30 bar
PN 42: 17 bar

For temperatures between +150°C and +200°C, please contact us.

Version 0465



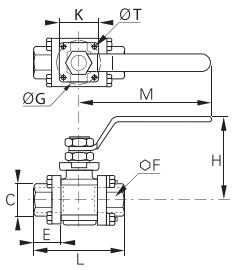
Regulations

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

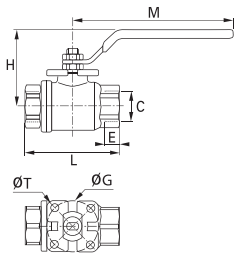


C	DN		E	F	G	H	K	L	M	ØT	kg
G1/4	10	4832 10 13	18	22	36	50	36	57	110.5	5.5	0.272
G3/8	10	4832 10 17	18	22	36	50	36	57	110.5	5.5	0.400
G1/2	15	4832 15 21	20.5	27	36	64	36	65	131.5	6	0.442
G3/4	20	4832 20 27	22.5	32	42	68	42	76	131.5	5.5	0.568
G1	25	4832 25 34	27	41	42	78.5	42	92	174.5	6	1.035
G1¼	32	4832 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

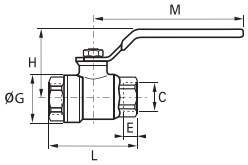


C	DN		E	G	H	L	M	ØT	kg
G1/4	10	4812 10 13	10	36	50	55	110	5.5	0.263
G3/8	10	4812 10 17	11	36	50	55	110	5.5	0.254
G1/2	15	4812 15 21	15	36	53	66	110	5.5	0.336
G3/4	20	4812 20 27	16	42	67	79	130	5.5	0.574
G1	25	4812 25 34	19	42	79	93	175	5.5	1.000
G1¼	32	4812 32 42*	21	42	83	100	175	5.5	1.337
G1½	40	4812 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

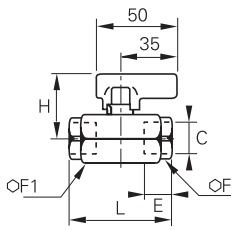


C	DN		E	G	H	L	M	kg
G1/4	8	4810 08 13	10	30	44.5	53.5	110.5	0.205
G3/8	10	4810 10 17	10	30	44.5	53.5	110.5	0.194
G1/2	15	4810 15 21	13	32.5	47	60	110.5	0.245
G3/4	20	4810 20 27	14	40	54.5	70	131.5	0.420
G1	25	4810 25 34	17	49	58.5	79	131.5	0.648

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

Applications

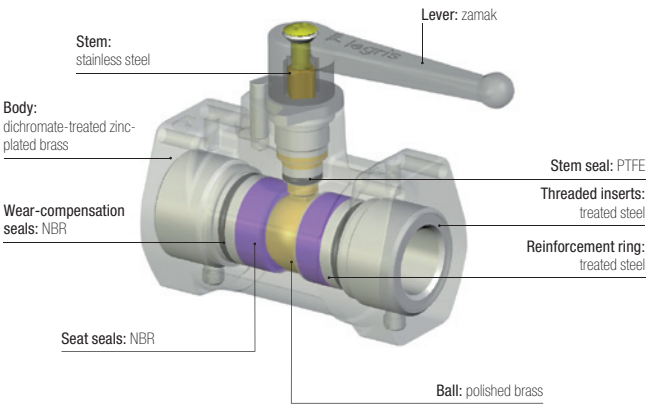
Automotive Process
Foundry
Forming
Machine Tools
Textile
Spectacle-Making Industry
Turbines
Deep-Sea Diving

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	Vacuum to 300 bar
Working Temperature	-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

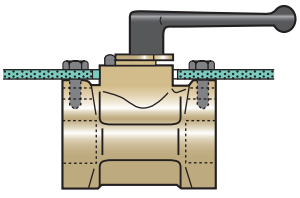
Regulations

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

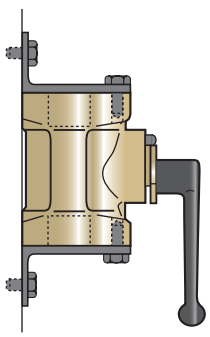
Bulkhead Mounting

Through bulkhead with screws



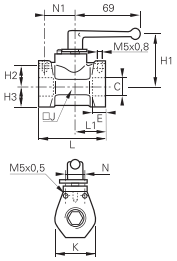
Surface Mounting

With brackets and screws



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	4402 07 13	12	50	13	15	30	30	58	25	15	20	0.402
G3/8	10	4402 10 17	12	54	23	19	36	39	72	36	20	30	0.722
G1/2	13	4402 13 21	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

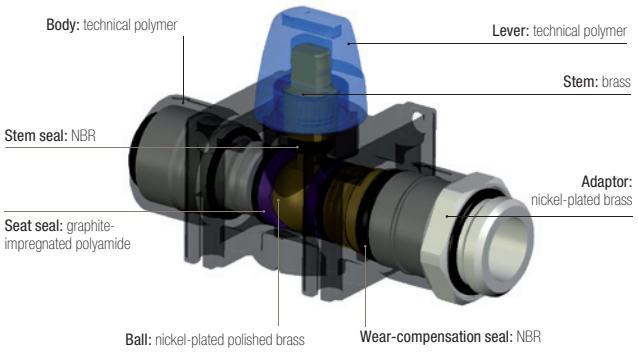
Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	Vacuum to 10 bar
Working Temperature	-20°C to +80°C

Tightening Torques	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

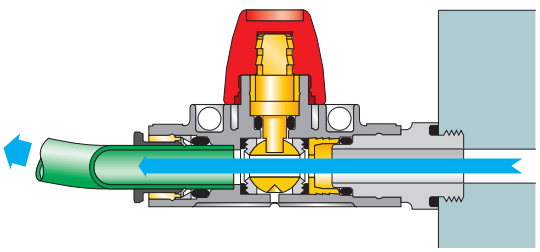


Silicone-free

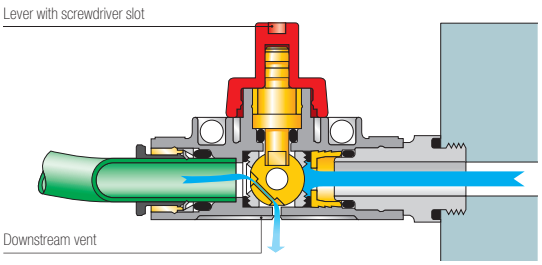
Operation

Vented Valve, Open Position

3/2 model with vent

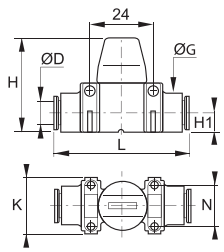


Vented Valve, Closed Position



7910 2/2 In-Line Mini-Ball Valve

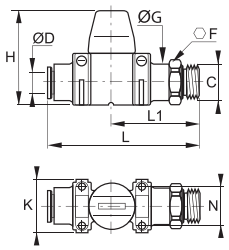
Technical polymer, NBR



ØD		G	H	H1	K	L	N	kg
4	7910 04 00	15	37	7.5	22	51	16	0.039
6	7910 06 00	15	37	7.5	22	52	16	0.034
8	7910 08 00	15	37	7.5	22	52	16	0.025
10	7910 10 00	20	43	11	30	66	22	0.060
12	7910 12 00	20	43	11	30	66	22	0.040

7911 2/2 In-Line Mini-Ball Valve, Male BSPP Thread

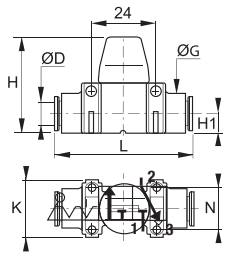
Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H	K	L	L1	N	kg
6	G1/8	7911 06 10	13	14	37	22	62	37	16	0.045
8	G1/4	7911 08 13	16	17.5	37	22	61	35	16	0.040
10	G3/8	7911 10 17	20	22	43	30	74	41	22	0.075
12	G1/2	7911 12 21	24	26	43	30	75	42	22	0.075

7913 3/2 In-Line Mini-Ball Valve with Vent

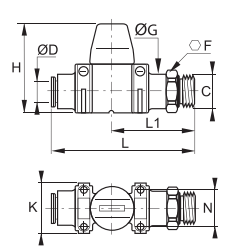
Technical polymer, NBR



ØD		G	H	H1	K	L	N	kg
4	7913 04 00	15	37	7.5	22	51	16	0.040
6	7913 06 00	15	37	7.5	22	52	16	0.035
8	7913 08 00	15	37	7.5	22	52	16	0.025
10	7913 10 00	20	43	11	30	66	22	0.060
12	7913 12 00	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	7914 06 10	13	14	37	22	62	37	16	0.045
8	G1/4	7914 08 13	16	17.5	37	22	61	35	16	0.040
10	G3/8	7914 10 17	20	22	43	30	74	41	22	0.058
12	G1/2	7914 12 21	24	26	43	30	75	42	22	0.075

7000 Joining Clips

Technical polymer

ØD		kg
4	7000 00 05	0.004
6	7000 00 05	0.004
8	7000 00 05	0.004
10	7000 00 06	0.009
12	7000 00 06	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

Applications

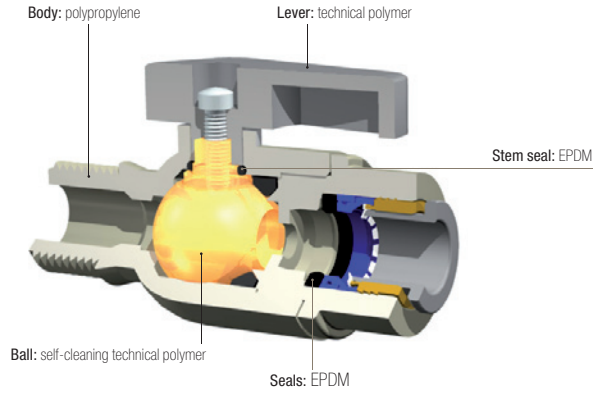
Beverage Dispensers
Inert Gases
Cooling
Food Process
Water Purification
Water Coolers

Technical Characteristics

Compatible Fluids	Water, drinks, beverages
Working Pressure	0 to 10 bar at 20°C
Working Temperature	-15°C to +100°C

Tightening Torques	Threads	1/4" NPTF	3/8" NPTF	1/2" NPTF
	daN.m	1.5	3	3

Component Materials



Silicone-free

Regulations

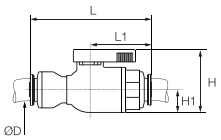
FDA: 21 CFR
NSF: 51 and lead < 0.25%
WQA: Water Quality Association

LIQUIfit® Ball Valves

4020 2/2 In-Line Ball Valve

Inch

Polypropylene, glass fibre-reinforced, EPDM

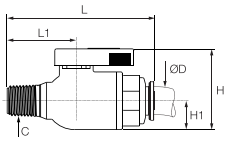


ØD		H	H1	L	L1	kg
1/4	4020 56 00WP2	25	13	65	31	0.015
3/8	4020 60 00WP2	36	13	68	30.5	0.028

4021 2/2 In-Line Ball Valve, Male NPTF Thread

Inch

Polypropylene, glass fibre-reinforced, EPDM

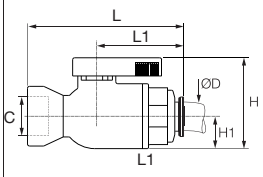


ØD	C		H	H1	L	L1	kg
1/4	NPT1/4	4021 56 14WP2	36	13	61	31	0.029
3/8	NPT3/8	4021 60 18WP2	36	13	64	33.5	0.028

4023 2/2 In-Line Ball Valve, Female NPTF Thread

Inch

Polypropylene, glass fibre-reinforced, EPDM

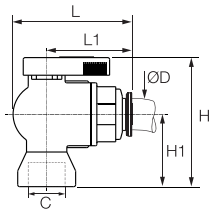


ØD	C		H	H1	L	L1	kg
1/4	NPT1/4	4023 56 14WP2	36	13	58	31	0.000
3/8	NPT3/8	4023 60 18WP2	36	13	64	33.5	0.000

4022 2/2 Right-Angled Ball Valve, Female NPTF Thread

Inch

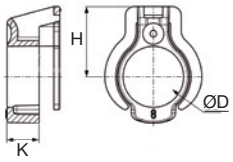
Polypropylene, glass fibre-reinforced, EPDM



ØD	C		H	H1	L	L1	kg
1/4	NPT1/4	4022 56 14WP2	52	29	44	31	0.016
3/8	NPT3/8	4022 60 18WP2	52	29	47	33.5	0.027

3130 Tamper-Proof Safety Clip

Technical polymer



ØD							H	K	kg
1/4	3130 56 01	3130 56 02	3130 56 03	3130 56 04	3130 56 05	3130 56 10	8	3.2	0.001
3/8	3130 60 01	3130 60 02	3130 60 03	3130 60 04	3130 60 05	3130 60 10	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

Applications

Pneumatics
Water Circuits
Machine Tools
Rubber Industry
Packaging
Textile

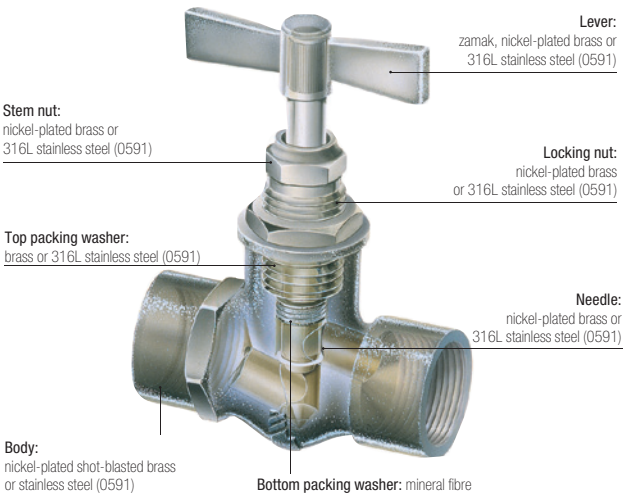
Technical Characteristics

	Brass	Stainless Steel
Compatible Fluids	Compressed air, water, industrial fluids, etc. Other fluids: contact us	Many fluids
Working Pressure	0 to 120 bar	0 to 400 bar
Working Temperature	-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

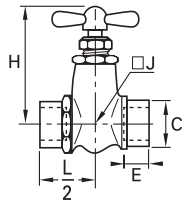
Regulations

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

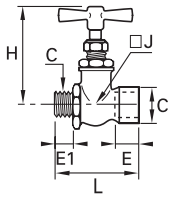
Nickel-plated brass



C	DN		E	H	H max	J	L/2	kg
G1/8	4	0502 04 10	9	56	50	17	23	0.133
G1/4	4	0502 04 13	11	56	50	17	23	0.118
G3/8	6	0502 06 17	12	67	60	-	26	0.171
	9	0502 09 17	12	82	70	-	33	0.426

0501 In-Line Needle Valve, Male/Female BSPP Thread

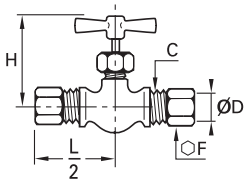
Nickel-plated brass



C	DN		E	E1	H	H max	J	L	kg
G1/8	4	0501 04 10	9	7	56	50	17	44	0.118
G1/4	4	0501 04 13	11	9.5	56	50	17	46	0.115
G3/8	6	0501 06 17	12	9.5	67	60	-	48	0.158

0510 In-Line Needle Valve with Compression Connections

Nickel-plated brass

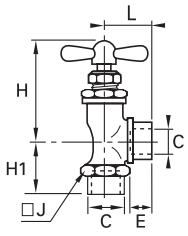


ØD	C	DN		F	H min	H max	L/2	kg
6	M10x1	4	0510 04 06	13	42	46	29	0.083
8	M12x1	8	0510 05 08	14	42	46	30	0.083
10	M16x1.5	5	0510 05 10	19	42	46	31	0.111

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

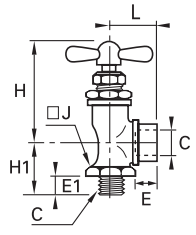
Nickel-plated brass



C	DN		E	H min	H max	H1	J	L	kg
G1/8	4	0532 04 10	9	46	52	19	17	19	0.093
G1/4	4	0532 04 13	11	46	52	21	17	21	0.087
	6	0532 06 13	11	55	63	26	22	26	0.169

0531 Right-Angle Needle Valve, Male/Female BSPP Thread

Nickel-plated brass

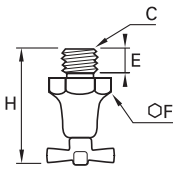


C	DN		E	E1	H min	H max	H1	J	L	kg
G1/8	4	0531 04 10	7	9	46	52	19	17	19	0.082
G1/4	4	0531 04 13	9.5	11	46	52	21	17	21	0.090
	6	0531 06 13	9.5	11	55	63	25	22	26	0.155
G3/8	6	0531 06 17	9.5	12	55	63	25	22	27	0.153
G1/2	10	0531 10 21	13	16	62	72	34	26	33	0.330

Brass Needle Valves

0562 Needle Drain Valve, Male BSPP and Metric Thread

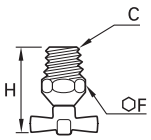
Brass



C	DN		E	F	H min	H max	kg
M10x1	5	0562 05 60	8	16	37.5	40	0.031
G1/8	5	0562 05 10	8	16	36	40	0.032
G1/4	5	0562 05 13	10	19	38.5	42.5	0.040

0563 Needle Drain Valve, Male NPT Thread

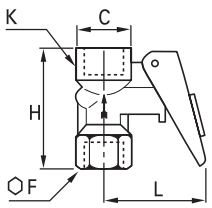
Brass



C	DN		F	H min	H max	kg
NPT1/4	5	0563 05 14	14	28.5	32.5	0.021

0627 Automatic Vent Pressure Gauge Valve, Female BSPP Thread

Nickel-plated brass, NBR

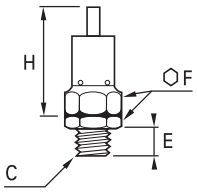


C		F	H	K	L	kg
G1/4	0627 00 13	19	43.5	20	40	0.097

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



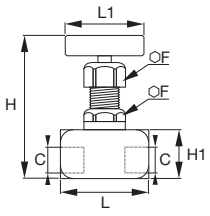
C		E	F	H	kg
G1/4	0630 06 13	9	17	42.5	0.050

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	0591 03 10	22	90	99	25	45	48	0.345
G1/4	4	0591 04 13	22	90	99	25	50	48	0.356
G3/8	5	0591 05 17	22	90	104	30	56	48	0.430
G1/2	6	0591 06 21	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

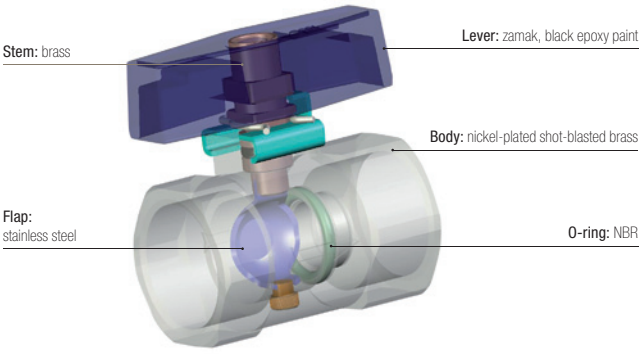
Painting & Printing
Machine Tools
Pneumatics
Powder Conveyance
Plumbing
Rubber Industry
Petrochemical

Technical Characteristics

Compatible Fluids	Compressed air, industrial gases, water, cutting oils, hydraulic oils, fuel oil, fuel, etc.
Working Pressure	0 to 16 bar
Working Temperature	-20°C to +80°C

Reliable performance is dependent upon the type of fluid conveyed.

Component Materials



Silicone-free

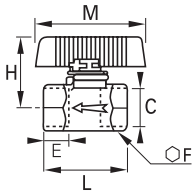
Regulations

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	4602 06 13	9	17	35	34	54	0.098
G3/8	7	4602 07 17	11	22	35	39	54	0.136
G1/2	10	4602 10 21	12	24	37	42	54	0.140
G3/4	13	4602 13 27	14	30	40	49	54	0.208
G1	18	4602 18 34	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

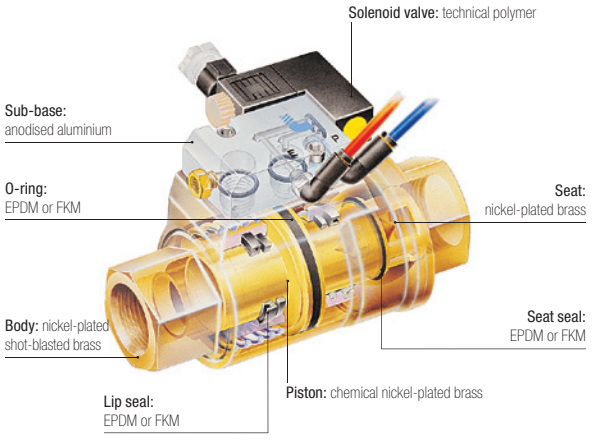
Technical Characteristics

Compatible Fluids	Depending on type of seal – FKM: water, air, oils, greases, etc. – EPDM: hot water, air, steam, etc.
Working Pressure	10 bar max.
Pilot Pressure	NC and NO: 4.2 to 8 bar Double-acting: 3 to 8 bar
Working Temperature	-20°C to +135°C (suffix 20 FKM) -20°C to +120°C (suffix 30 EPDM)

Tightening Torques	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).

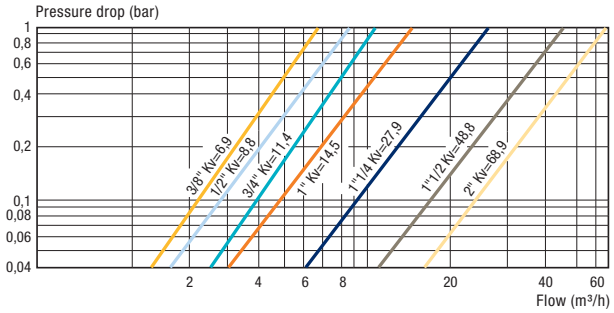
Component Materials



Silicone-free

Flow Curve and Pressure Drop (Kv)

Kv in m³/h (ambient water temperature, under a differential pressure of 1 bar)



Regulations

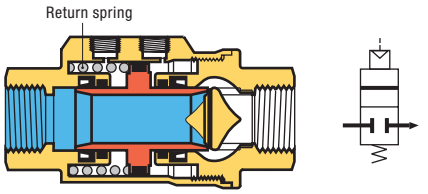
DI: 97/23/EC (module PED A - diameters greater than 25 mm)
DI: 2006/42/EC (Machinery Directive)
DI: 2002/95/EC (RoHS)
RG: 1907/2006 (REACH)
DI: 94/9/EC (ATEX) - for pneumatic operation versions

Axial Valves

Operation

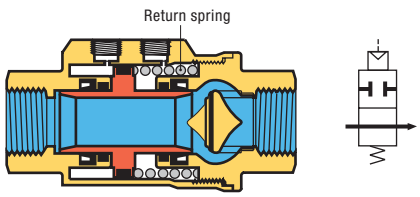
Depending on operational requirement, air is passed into the actuation chamber to open or close the valve.

Normally Closed Axial Valve (NC)



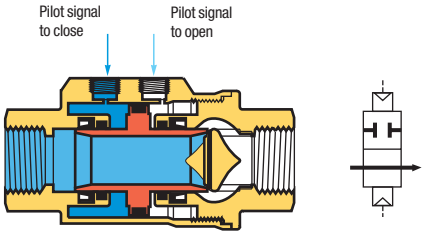
Rest State (valve closed)

Normally Open Axial Valve (NO)

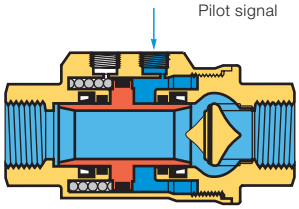


Rest State (valve open)

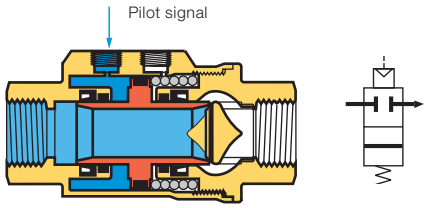
Double-Acting Axial Valve (DE)



Piloted State (valve closed)



Piloted State (valve open)



Piloted State (valve closed)

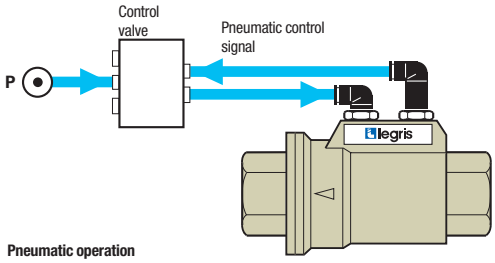
Installation Options

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

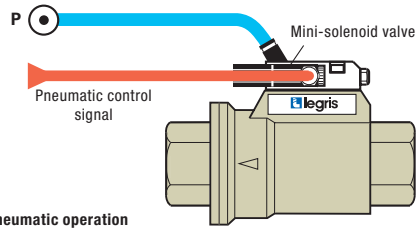


Pneumatic operation

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

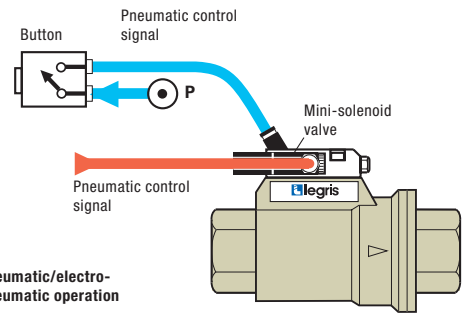


Electro-pneumatic operation

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

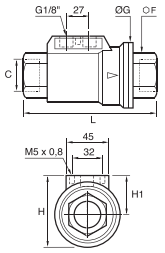


Pneumatic/electro-pneumatic operation

Axial Valves

4202..20 Normally Closed Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM

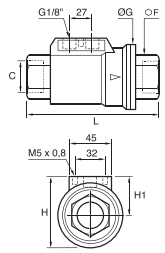


C		F	G	H	H1	L	kg
G3/8	4202 10 17 20	22	46	54	31	98	0.815
G1/2	4202 15 21 20	27	52	60	35	112	1.092
G3/4	4202 20 27 20	33	64	70	38	135	1.624
G1	4202 25 34 20	41	69	76	41.5	143	2.033
G1¼	4202 32 42 20*	50	86	91	48	165	3.266
G1½	4202 40 49 20*	60	96	102	54	180	4.195
G2	4202 50 48 20*	75	109	115	60.5	207	6.465

Pilot port: G1/8 - Delivered with a silencer
*Models with CE marking

4202..30 Normally Closed Axial Valve with EPDM Seal, Female BSPP Thread

Nickel-plated brass, EPDM

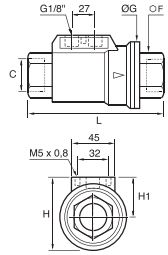


C		F	G	H	H1	L	kg
G3/8	4202 10 17 30	22	46	54	31	98	0.828
G1/2	4202 15 21 30	27	52	60	35	112	1.098
G3/4	4202 20 27 30	33	64	70	38	135	1.624
G1	4202 25 34 30	41	69	76	41.5	143	1.998
G1¼	4202 32 42 30*	50	86	91	48	165	3.315
G1½	4202 40 49 30*	60	96	102	54	180	4.195
G2	4202 50 48 30*	75	109	115	60.5	207	6.360

Pilot port: G1/8 - Delivered with a silencer
*Models with CE marking

4212..20 Normally Open Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM

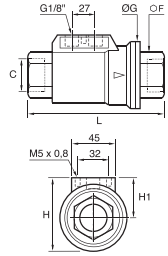


C		F	G	H	H1	L	kg
G3/8	4212 10 17 20	22	46	54	31	98	0.829
G1/2	4212 15 21 20	27	52	60	35	112	1.100
G3/4	4212 20 27 20	33	64	70	38	135	1.637
G1	4212 25 34 20	41	69	76	41.5	143	2.037
G1¼	4212 32 42 20*	50	86	91	48	165	0.030
G1½	4212 40 49 20*	60	96	102	54	180	4.188
G2	4212 50 48 20*	75	109	115	60.5	207	6.555

Pilot port: G1/8 - Delivered with a silencer
*Models with CE marking

4212..30 Normally Open Axial Valve with EPDM seal, Female BSPP Thread

Nickel-plated brass, EPDM

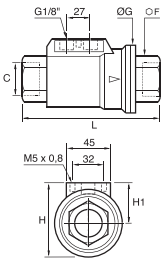


C		F	G	H	H1	L	kg
G3/8	4212 10 17 30	22	46	54	31	98	0.827
G1/2	4212 15 21 30	27	52	60	35	112	1.152
G3/4	4212 20 27 30	33	64	70	38	135	1.575
G1	4212 25 34 30	41	69	76	41.5	143	2.055
G1¼	4212 32 42 30*	50	86	91	48	165	3.301
G1½	4212 40 49 30*	60	96	102	54	180	4.775
G2	4212 50 48 30*	75	109	115	60.5	207	6.360

Pilot port: G1/8 - Delivered with a silencer
*Models with CE marking

4222..20 Double-Acting Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM



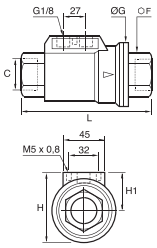
C		F	G	H	H1	L	kg
G3/8	4222 10 17 20	22	46	54	31	98	0.802
G1/2	4222 15 21 20	27	52	60	35	112	1.063
G3/4	4222 20 27 20	33	64	70	38	135	1.572
G1	4222 25 34 20	41	69	76	41.5	143	1.942
G1¼	4222 32 42 20*	50	86	91	48	165	3.058
G1½	4222 40 49 20*	60	96	102	54	180	3.995
G2	4222 50 48 20*	75	109	115	60.5	207	6.275

Pilot port: G1/8
*Models with CE marking

Axial Valves

4222..30 Double Acting Axial Valve with EPDM seal, Female BSPP Thread

Nickel-plated brass, EPDM

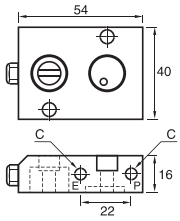


C		F	G	H	H1	L	kg
G3/8	4222 10 17 30	22	46	54	31	98	0.832
G1/2	4222 15 21 30	27	52	60	35	112	1.046
G3/4	4222 20 27 30	33	64	70	38	135	1.662
G1	4222 25 34 30	41	69	76	41.5	143	1.938
G1¼	4222 32 42 30*	50	86	91	48	165	3.301
G1½	4222 40 49 30*	60	96	102	54	180	4.260
G2	4222 50 48 30*	75	109	115	60.5	207	6.520

Pilot port: G1/8
Delivered with a silencer
*Models with CE marking

4298 Sub-Base for Solenoid Pilot Valve

Treated aluminium, NBR

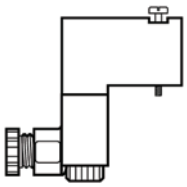


C		kg
M5x0.8	4298 00 01	0.095

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

Anodised aluminium

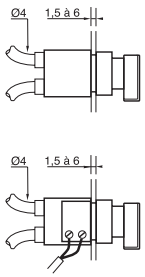


Voltage		kg
24V ⎓ CC*	4298 01 01	0.052
24V ∿ CA**	4298 01 02	0.058
110V ∿ CA**	4298 02 01	0.051
220V ∿ CA**	4298 02 02	0.054

*Direct current
**Alternating current

4299 Pneumatic Button/Electro-Pneumatic

Nickel-plated brass



Contact		kg
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

legris

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)
Page 7-11

0690 07
LF 3000® Nozzle
Page 7-11

0690 08
Coanda
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0690 09
Air Screen
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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
Page 7-17/18

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

Applications

Manufacturing Workshops
Cleaning
Blowing
Mixing
Ejection
Cooling
Packaging

Technical Characteristics

Compatible Fluids	Compressed air Other fluids: contact us
Working Pressure	0 to 10 bar
Working Temperature	Air: -15°C to +50°C Dry air: -20°C to +80°C
Tubes	Recoil tubes and hose

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)

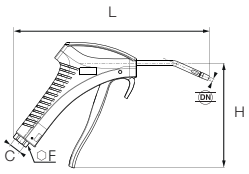
Protection of design
All designs and models of Parker Legris blowguns have been registered with the following numbers: 13224 / 13225 / 13226.

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.

Polymer Blowguns

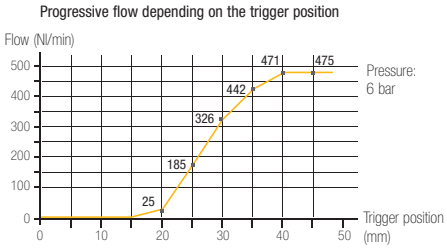
0659 Standard Blowgun, Lower Connection with Short Angled Nozzle, Female BSPP Thread

Technical polymer, nickel-plated brass, treated aluminium, NBR



C	DN		F	H	L	kg
G1/4	3.5	0659 00 13	20	120	223	0.072

Nozzle: aluminium, NPT version available.



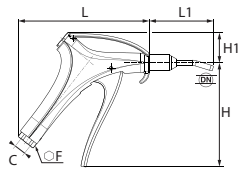
475 Nl/min

82 dBA

OSHA 1910.242 (b)
OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection if exposure > 8 hours

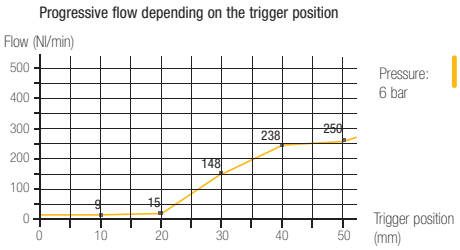
0654 Safety Blowgun, Lower Connection, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR



C	DN		F	H	H1	L	L1	kg
G1/4	3	0654 00 13	20	117	35	148	73	0.189

Nozzle: nickel-plated brass, NPT version available.



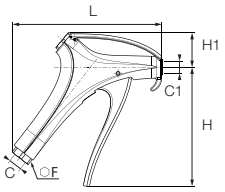
250 Nl/min

80 dBA

OSHA 1910.242 (b)
OSHA 1910.95 (b)
2003/10/EC directive:
No ear defenders necessary

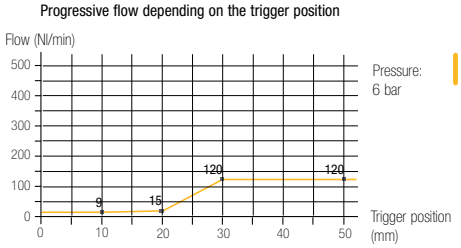
0653 Energy-Saving Blowgun, Lower Connection with Interchangeable Nozzle, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR



C	C1		F	H	H1	L	kg
G1/4	M12x1.25	0653 66 13	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.



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

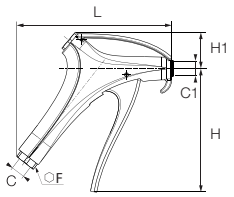
Operation: Blowgun with Safety Nozzle

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	0652 66 13	20	117	34	147	0.163

Flow characteristics depend on the type of nozzle used.
Delivered without nozzle.

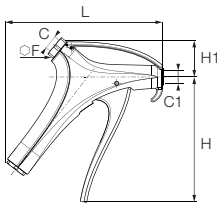
Depending on the type of nozzle

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	0655 66 13	20	117	37	145	0.014

Flow characteristics depend on the type of nozzle used.
Delivered without nozzle.

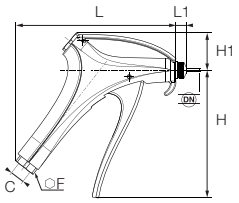
Depending on the type of nozzle

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

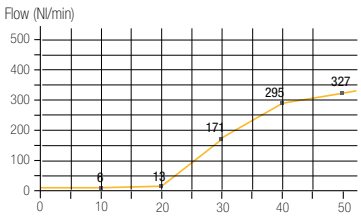
Technical polymer, nickel-plated brass, NBR



C	DN		F	H	H1	L	L1	kg
G1/4	2.5	0651 66 13	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**

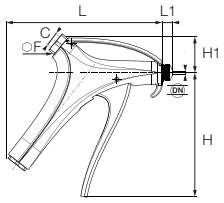
86 dBA

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

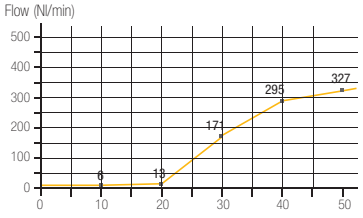
Technical polymer, nickel-plated brass, NBR



C	DN		F	H	H1	L	L1	kg
G1/4	2.5	0658 66 13	20	117	37	145	10	0.195

Nozzle: nickel-plated brass

Progressive flow depending on the trigger position



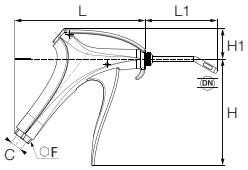
327 Nl/min Flow produced with nozzle **0690 01 00**

86 dBA

OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection if exposure > 8 hours

0656 Safety Progressive Control Blowgun, Lower Connection with Short Angled Nozzle, Female BSPP

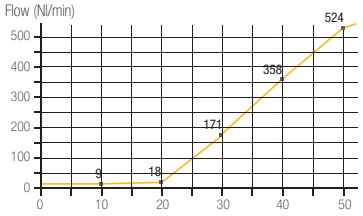
Technical polymer, nickel-plated brass, NBR



C	DN		F	H	H1	L	L1	kg
G1/4	2.5	0656 66 13	20	117	34	147	81	0.173

Nozzle: nickel-plated brass

Progressive flow depending on the trigger position



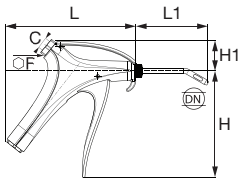
524 Nl/min Flow produced with nozzle **0690 06 01**

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

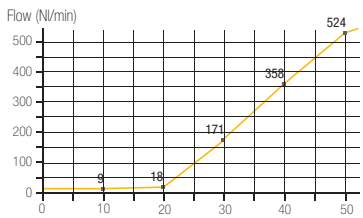
Technical polymer, nickel-plated brass, NBR



C	DN		F	H	H1	L	L1	kg
G1/4	2.5	0657 66 13	20	117	37	145	82	0.168

Nozzle: nickel-plated brass

Progressive flow depending on the trigger position



524 Nl/min Flow produced with nozzle **0690 06 01**

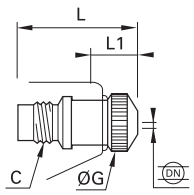
86 dBA

OSHA 1910.242 (b)
OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection if exposure > 8 hours

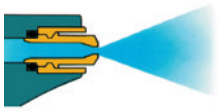
Nozzles for Polymer Blowguns

0690 01 Standard Nozzle

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 01 00	15	31	9	0.024



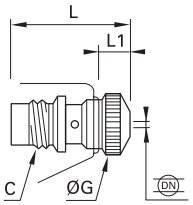
- Versatile use
- Progressive and powerful air jet

327 Nl/min | 86 dBA | 23°

OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection
if exposure > 8 hours

0690 02 Safety Nozzle

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 02 00	15	31	9	0.024

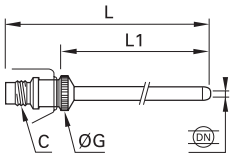
- Fluidised Powders
- Air screen effect
- Safety: avoids the nozzle becoming completely blocked

315 Nl/min | 83 dBA | 26°

OSHA 1910.95 (b)/1910.242 (b)
2003/10/EC directive:
Requirement to use ear protection
if exposure > 8 hours

0690 03 Straight Nozzle (Long)

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 03 00	15	332	307	0.068

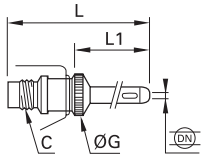
- Restricted Access
- Progressive and powerful air jet

386 Nl/min | 82 dBA | 21°

OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection
if exposure > 8 hours

0690 04 Safety Straight Nozzle (Short)

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 04 00	15	102	77	0.033

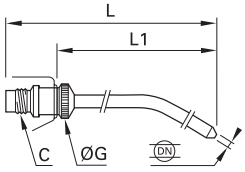
- Restricted Access
- Air screen effect and directional jet
- Safety: avoids the nozzle becoming completely blocked

410 Nl/min | 82 dBA | 21°

OSHA 1910.242 (b)/ OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection
if exposure > 8 hours

0690 05 Angled Nozzle (Long)

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 05 00	15	316	292	0.065

- Restricted or distant access
- Progressive and powerful air jet
- 360° rotation

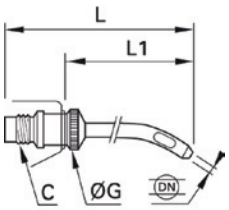
354 Nl/min | 82 dBA | 21°

OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection
if exposure > 8 hours

Nozzles for Polymer Blowguns

0690 06 Safety Angled Nozzle (Short)

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 06 00	15	94	70	0.033

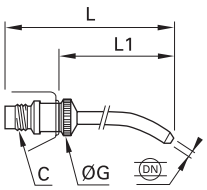
- Restricted Access
- Air screen effect and 360° directional jet
- Safety: avoids the nozzle becoming completely blocked

350 Nl/min | 86 dBA | 21°

OSHA 1910.242 (b)/ OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection if exposure > 8 hours

0690 06 01 Angled Nozzle (Short)

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 06 01	15	94	70	0.033

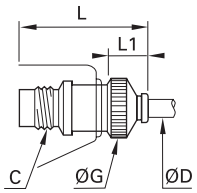
- Difficult access
- Progressive and powerful air jet, 360° rotation

524 Nl/min | 86 dBA | 21°

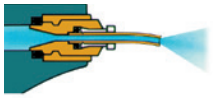
OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection if exposure > 8 hours

0690 07 Nozzle with LF 3000® Push-In Connection

Nickel-plated brass



ØD	C		G	L	L1	kg
4	M12x1.25	0690 07 00	15	35	13	0.024



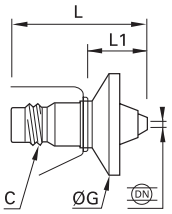
- Restricted Access
- Progressive air jet

340 Nl/min (with 2.7x4 tube)
200 Nl/min (with 2x4 tube)
86 dBA | 21°

OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection if exposure > 8 hours

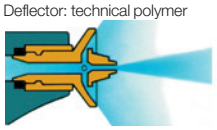
0690 09 Air Screen Safety Nozzle

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2	0690 09 00	30	40.5	18.5	0.021

Deflector: technical polymer



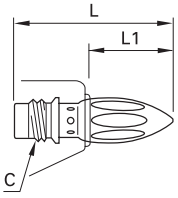
- High flow for blowing large surfaces
- Air screen and deflector to avoid particles being blown back
- Safety: avoids the nozzle becoming completely blocked

660 Nl/min | 86 dBA | 24° nozzle 140° screen

OSHA 1910.242 (b)/ OSHA 1910.95 (b)
2003/10/EC directive:
Requirement to use ear protection if exposure > 8 hours

0690 08 COANDA Nozzle

Nickel-plated brass



C		L	L1	kg
M12x1.25	0690 08 00	47.5	26	0.033

- Directional air jet
- Very quiet, energy-saving
- Safety: avoids the nozzle becoming completely blocked

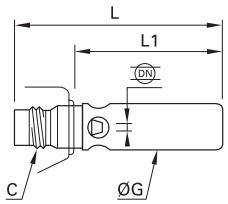
240 Nl/min | 73 dBA | 20°

OSHA 1910.242 (b)/ OSHA 1910.95 (b)
2003/10/EC directive:
No ear defenders necessary

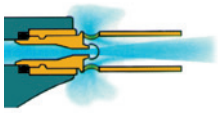
Nozzles for Polymer Blowguns

0690 10 Safety Booster Nozzle

Nickel-plated brass



C	DN		G	L	L1	kg
M12x1.25	2.5	0690 10 00	15	64	42	0.038



- High flow for blowing large surfaces
- Air screen effect
- Safety: avoids the nozzle becoming completely blocked

780 Nl/min

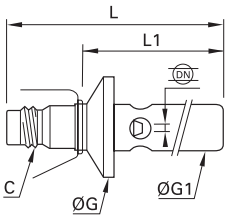
99 dBA

28°

OSHA 1910.242 (b)
2003/10/EC directive:
Requires ear defenders to be used at all times

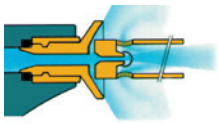
0690 11 Safety Booster Nozzle with Air Screen

Nickel-plated brass



C	DN		G	G1	L	L1	kg
M12x1.25	2.5	0690 11 00	30	15	76	54	0.045

Deflector: technical polymer



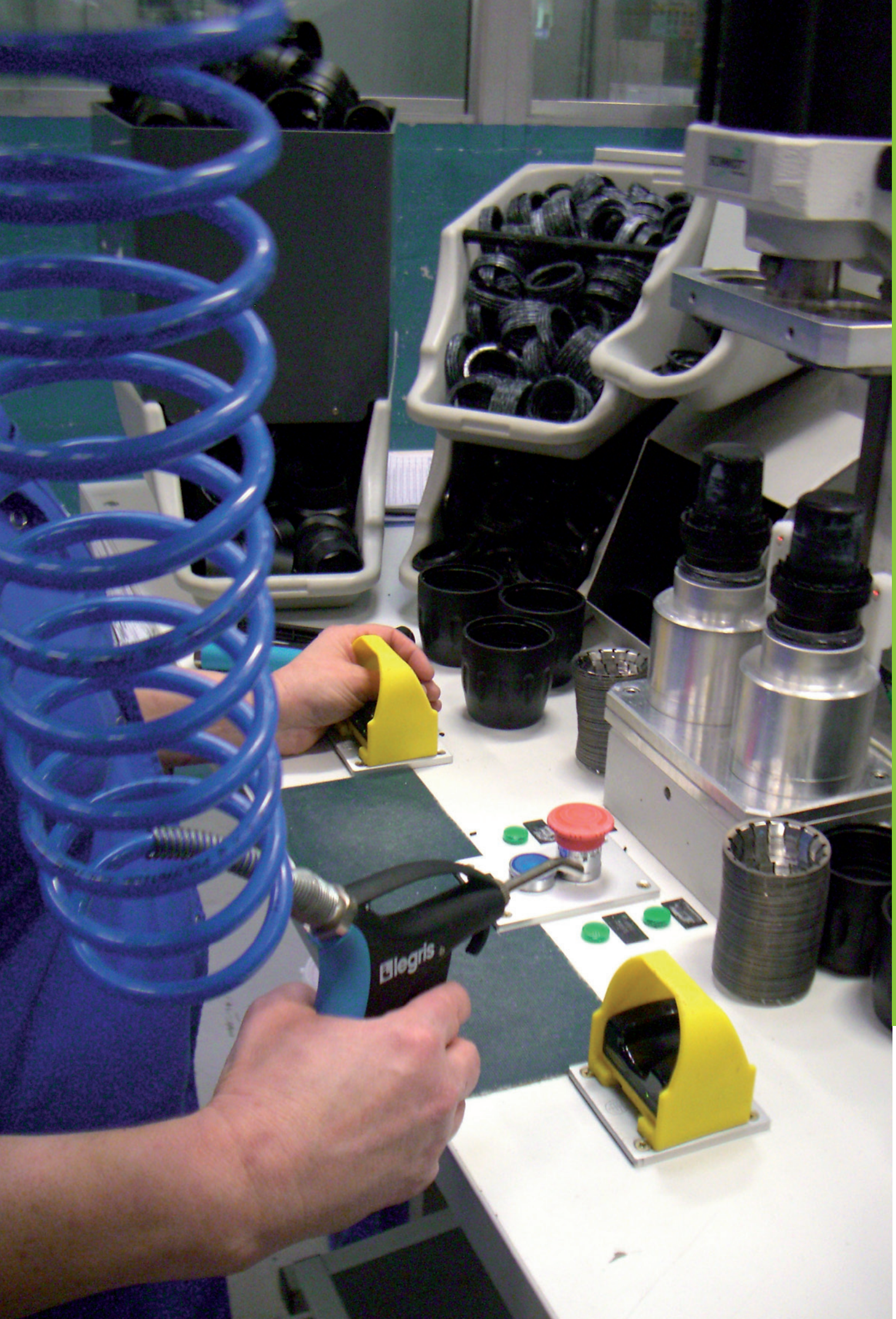
- Same advantage as the Booster nozzle
- Safety: avoids the nozzle becoming completely blocked
- Air screen and deflector avoid particles being blown back

860 Nl/min

99 dBA

26° nozzle
140° screen

OSHA 1910.242 (b)
2003/10/EC directive:
Requires ear defenders to be used at all times


legris

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

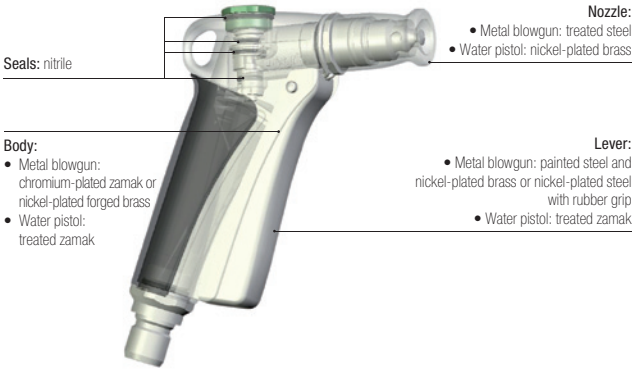
Applications

Manufacturing Workshops
Assembly machines
Robotics
Ejection
Cooling
Packaging
Automotive Process

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

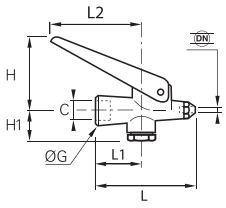
Regulations

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

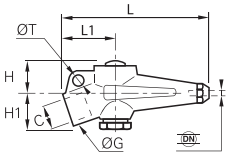


C	DN		G	H min	H max	H1	L	L1	L2	kg
G1/4	2	0623 10 35	18	19	37	21	64	28	60	0.119

This blowgun has a hardened steel nozzle.

0622 Button-Operated Blowgun, Female BSPP Thread

Nickel-plated brass, NBR

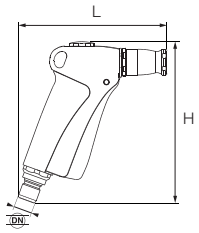


C	DN		G	H	H1	L	L1	ØT	kg
G1/4	2	0622 26 73	18	17.5	20.5	82	29	7	0.196

This blowgun has a hardened steel nozzle.

2299 Water Pistol

Zamak, nickel-plated brass, NBR



		H	L	kg
12	2299 12 01	140	126	0.471

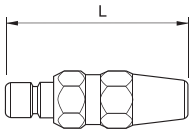
This pistol allows independent control of:
- the flow rate (trigger)
- type of jet (adjustable to a fine mist) by the adjustable nozzle

1440 Nl/min (air)
16.2 Nl/min (water)

Adjustable

2299 Adjustable Nozzle

Nickel-plated brass, NBR



		L	kg
12	2299 12 20	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

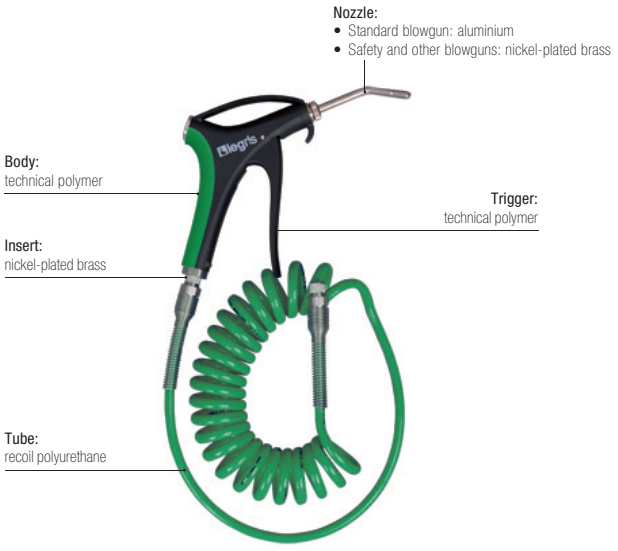
Applications

Manufacturing Workshops
Cleaning
Blowing
Mixing
Ejection
Cooling
Packaging

Technical Characteristics

Compatible Fluids	Compressed air Other fluids: contact us
Working Pressure	0 to 10 bar
Working Temperature	Air: -15°C to +50°C Dry air: -20°C to +80°C
Tubes	Recoil tubing

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)

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.

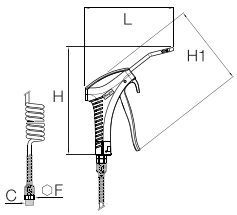
Customisation on request

- Marking
- Kit contents adaptable to your applications
- Additional functions
- Colour

Blowgun Kits

0631..09 Blowgun Kit, Lower Connection, Male BSPT Thread

Technical polymer, nickel-plated brass, treated aluminium, NBR, polyurethane tubing

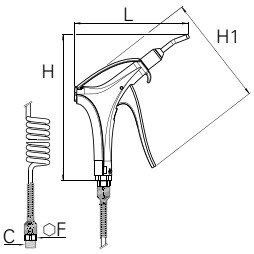


C		F	H	H1	L	kg
R1/4	0631 00 09	16	192.5	139.5	152	0.441

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0659 00 13).

0631..01 Safety Blowgun Kit, Lower Connection, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing

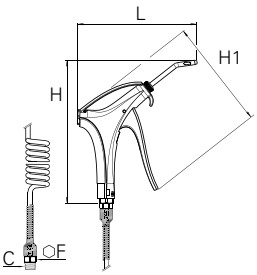


C		F	H	H1	L	kg
R1/4	0631 00 01	16	198.5	148.5	154	0.575

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0654 00 13).

0631..23 Energy Saving Blowgun Kit with Angled Nozzle, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing

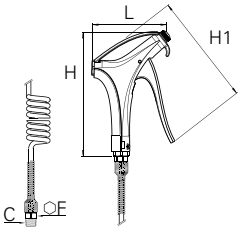


C		F	H	H1	L	kg
R1/4	0631 00 23	16	195	148.5	154	0.456

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0653 66 13).
External diameter of tube 6 mm

0631..03 Blowgun Kit, Lower Connection with Standard Nozzle, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing



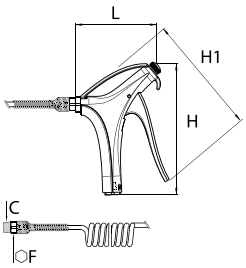
C		F	H	H1	L	kg
R1/4	0631 00 03	16	165	148.5	99	0.528

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0651 66 13).

Blowgun Kits

0631..02 Blowgun Kit, Upper Connection with Standard Nozzle, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing

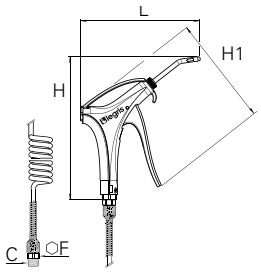


C		F	H	H1	L	kg
R1/4	0631 00 02	16	163	148.5	101	0.524

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0658 66 13).

0631..05 Blowgun Kit Lower Connection with Short Angled Nozzle, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing

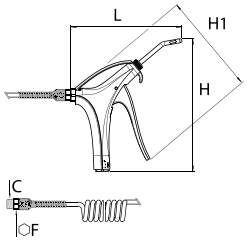


C		F	H	H1	L	Kg
R1/4	0631 00 05	16	195,5	148,5	163	0,536

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0656 66 13).

0631..04 Blowgun Kit, Lower Connection with Short Angled Nozzle, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing

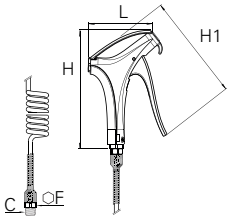


C		F	H	H1	L	kg
R1/4	0631 00 04	16	195	148.5	163.5	0.536

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0657 66 13).

0631..07 Blowgun Kit, Lower Connection with Interchangeable Nozzle, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing



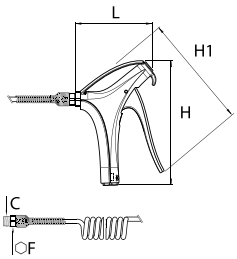
C		F	H	H1	L	kg
R1/4	0631 00 07	16	163	148.5	91	0.617

Flow characteristics, noise level and norm compliance are identical to those of our blowguns (0656 66 13).
Delivered without nozzle.

Blowgun Kits

0631..06 Blowgun Kit, Upper Connection with Interchangeable Nozzle, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR, polyurethane tubing

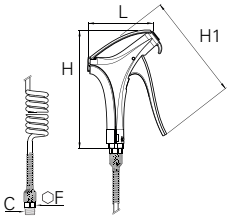


C		F	H	H1	L	kg
R1/4	0631 00 06	16	161.5	148.5	93	0.501

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

Technical polymer, nickel-plated brass, NBR, polyurethane tubing



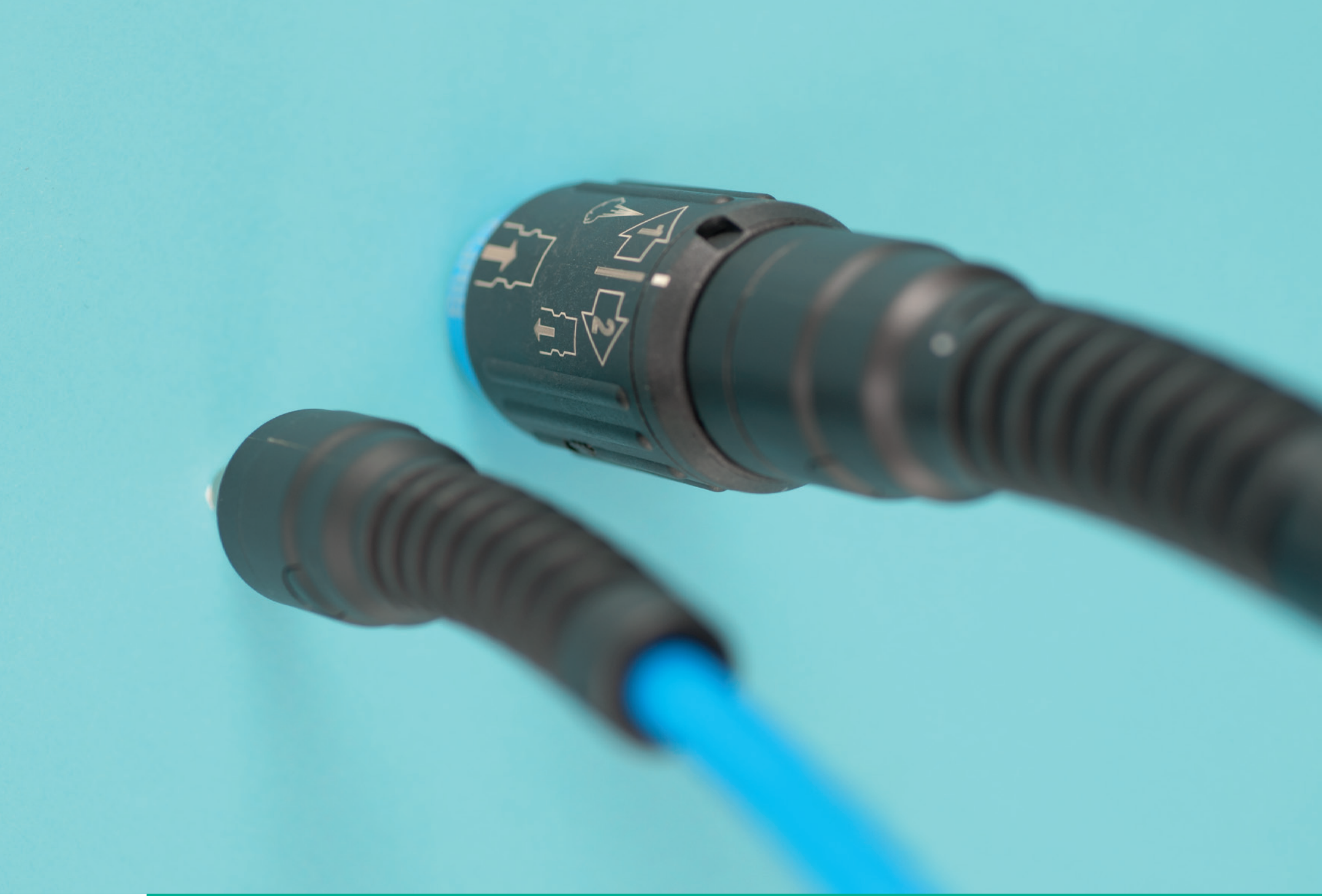
C		F	H	H1	L	kg
R1/4	0631 00 08	16	163	148.5	91	0.496

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

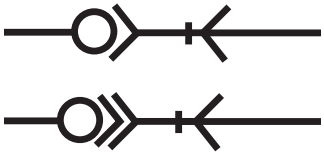
3 Shut-Off Functions

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.

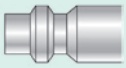
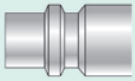
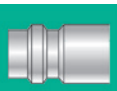
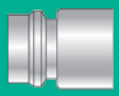
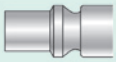
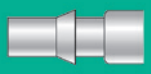
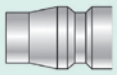
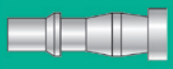


Double Shut-Off

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.

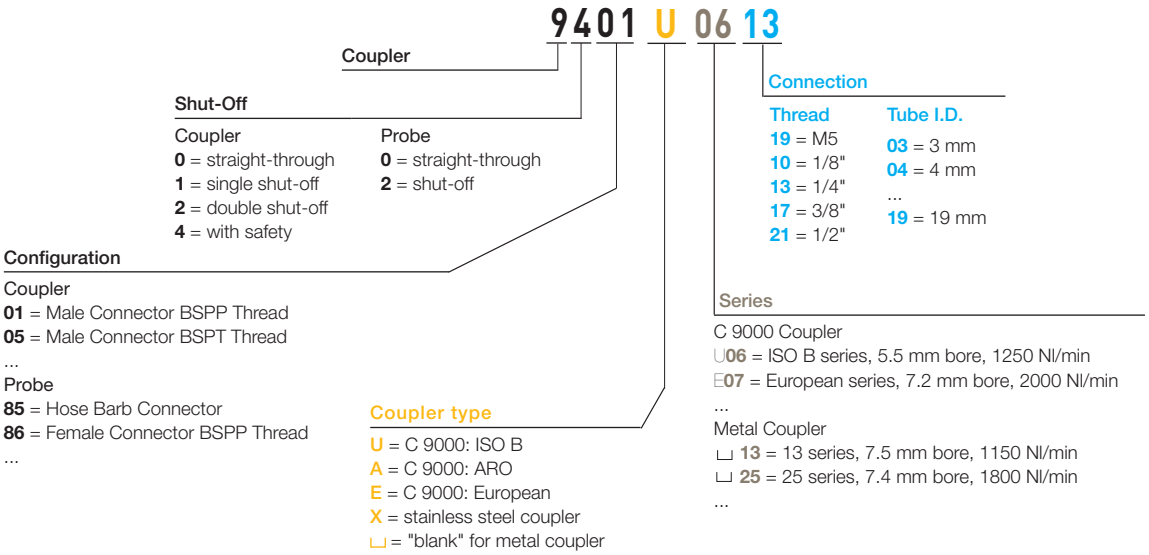
Technology and Flow Rates

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 (Nl/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

Safety & Reliability

- Prevents risk of whiplash
- Quick-acting vent allowing disconnection to be carried out in total safety
- Rotating sleeve to avoid risk of accidental disconnection
- Low connection/disconnection force even under pressure
- Polymer sleeve protects equipment from scratching
- Protective spiral over the tube prevents kinking

Performance

- Very high flow and low pressure drop
- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Robust impact-resistant material
- Optimum energy efficiency
- Long-term reliability

Easy-to-Use

- Immediate identification by clear marking on each model showing:
  - profile of the compatible male probe
  - type part number
- Compatible with male probes conforming to:
  - ISO B profile
  - European profile
  - ARO profile

Applications

Workshops
Cleaning
Blowing
Pneumatics
Air-Operated Tools
Ring Main Circuits
Packaging

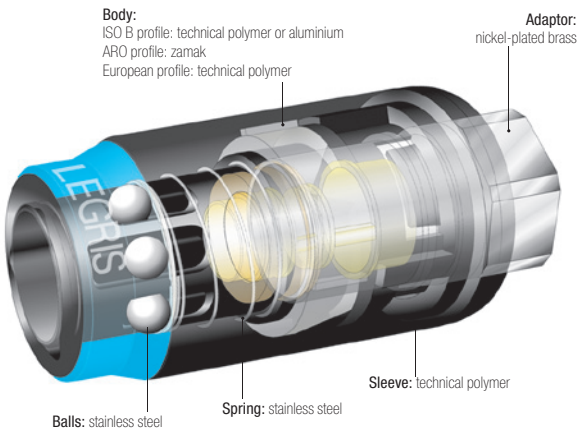
Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	0 to 16 bar
Working Temperature	-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

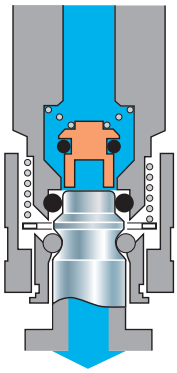


Silicone-free

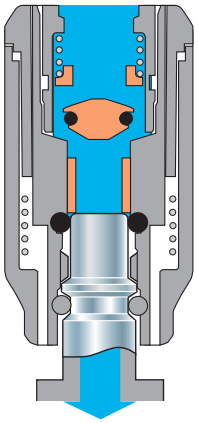
C 9000 Polymer Quick-Acting Safety Couplers

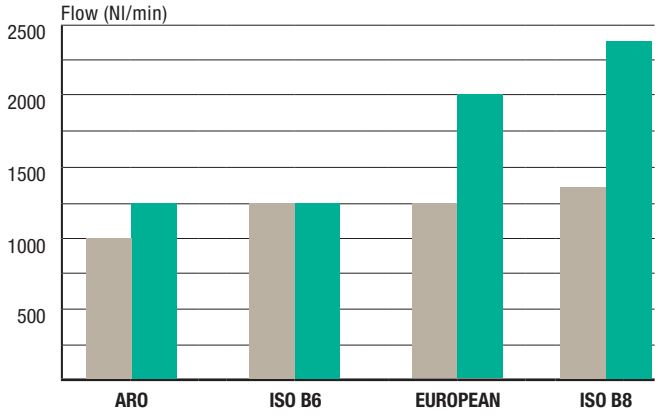
C 9000 Technology and Flow Rates

"Typical" quick-acting coupler
Standard "poppet" technology
Flow: 1400 Nl/min



C 9000 quick-acting coupler
"Optimal flow" technology
Flow: 2400 Nl/min





C 9000 Coupler

Standard Couplers

Measurements carried out in accordance with ISO 6358 at a pressure of 6 bar, pressure drop < 0.7 bar

Operation

Operation

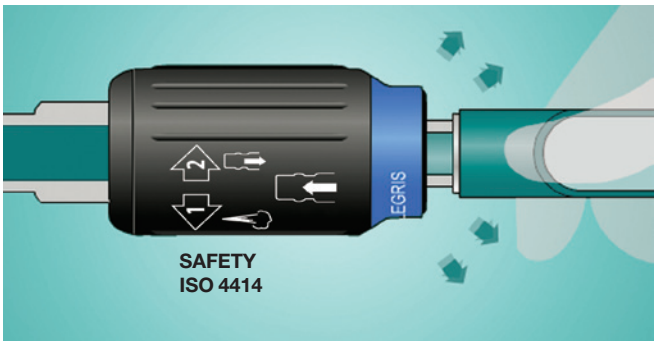
1.

2.

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

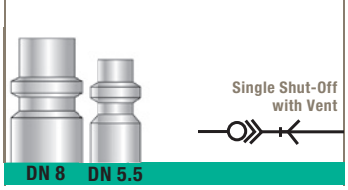


ISO B6 profile, recoil tubing (I.D. 6 mm, length 6 m)
Venting time = 350 ms (transition from 6 bar to 0.2 bar)

ISO B8 profile, PVC tubing (I.D. 10 mm, length 25 m)
Venting time = 860 ms (transition from 6 bar to 0.2 bar)

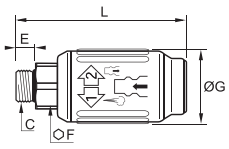
Even with longer lengths of tubing, the vent time of the C 9000 coupler can be less than 1 second.

ISO B Profile



9401U Coupler, Male BSPP Thread

Technical polymer, nickel-plated brass, NBR

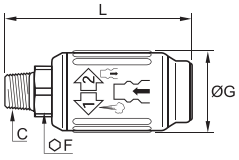


DN	C		E	F	G	L	kg
5.5	G1/4	9401U06 13	7.5	17	31.5	74	0.075
	G3/8	9401U06 17	8.5	21	31.5	76.5	0.095
	G1/2	9401U06 21	10.5	25	31.5	80	0.115
8	G1/4	9401U08 13	6.5	22	36.5	81.5	0.120
	G3/8	9401U08 17	7.5	22	36.5	82.5	0.133
	G1/2	9401U08 21	9	25	36.5	85.5	0.140

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9405U Coupler, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

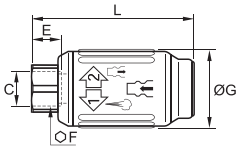


DN	C		F	G	L	kg
5.5	R1/4	9405U06 13	17	31.5	75	0.075
	R3/8	9405U06 17	19	31.5	76.5	0.095
	R1/2	9405U06 21	22	31.5	81.5	0.110
8	R1/4	9405U08 13	22	36.5	84	0.120
	R3/8	9405U08 17	22	36.5	84	0.120
	R1/2	9405U08 21	22	36.5	88	0.140

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9414U Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

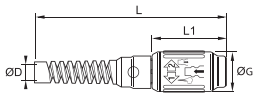


DN	C		E	F	G	L	kg
5.5	G1/4	9414U06 13	12	17	31.5	66.5	0.070
	G3/8	9414U06 17	12	22	31.5	72	0.085
	G1/2	9414U06 21	15	27	31.5	78	0.115
8	G1/4	9414U08 13	12	22	36.5	75	0.127
	G3/8	9414U08 17	12	22	36.5	75	0.144
	G1/2	9414U08 21	15	27	36.5	80	0.138

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9410U Coupler, LF 3000® Push-In Connection, Body Spiral Protection Spring

Technical polymer, nickel-plated brass, NBR

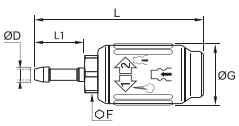


DN	ØD		G	L	L1	kg
5.5	8	9410U06 08	31.5	145	56	0.096
	10	9410U06 10	31.5	145	56	0.080
8	10	9410U08 10	36.5	155	63	0.175
	12	9410U08 12	36.5	165	63	0.162

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9421U Coupler with Hosetail

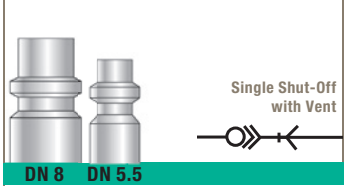
Technical polymer, nickel-plated brass, NBR



DN	ØD		F	G	L	L1	kg
5.5	6	9421U06 06	17	31.5	88.5	26	0.070
	8	9421U06 08	17	31.5	88.5	26	0.070
	10	9421U06 10	17	31.5	88.5	26	0.070
8	6	9421U08 06	22	36.5	95	26	0.110
	8	9421U08 08	22	36.5	95	26	0.100
	10	9421U08 10	22	36.5	95	26	0.124
	13	9421U08 13	22	36.5	99	30	0.125

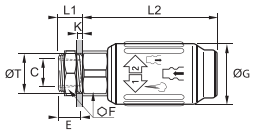
C 9000 Series ISO B (DN 5.5): single shut-off flow = 1250 Nl/min
C 9000 Series ISO B (DN 8): single shut-off flow = 2400 Nl/min

ISO B Profile



9416U Coupler, Bulkhead Mountable, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

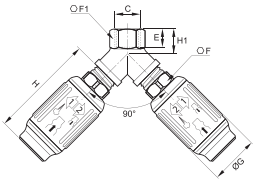


DN	C		E	F	G	K max	L1	L2	ØT min	kg
5.5	G1/4	9416U06 13	12	22	31.5	6	12.5	68.5	18.5	0.105
8	G3/8	9416U08 17	12	24	36.5	7	14.5	76	22.5	0.150

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9440U Y Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

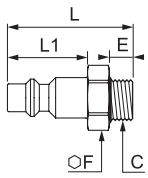


DN	C		E	F	F1	G	H	H1	kg
5.5	G3/8	9440U06 17	11.5	19	20	31.5	70	16	0.207
8	G1/2	9440U08 21	14	22	25	36.5	80	19	0.352

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9087U Probe, Straight-Through, Male BSPP Thread

Nickel-plated steel, technical polymer

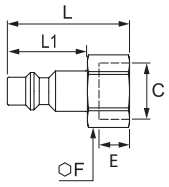


DN	C		E	F	L	L1	kg
5.5	G1/4	9087U06 13	9	17	38	24	0.025
	G3/8	9087U06 17	9	19	38	24	0.032
	G1/2	9087U06 21	12	22	42	24	0.048
8	G1/4	9087U08 13	9	17	38	24	0.030
	G3/8	9087U08 17	9	19	39	24	0.036
	G1/2	9087U08 21	12	22	42	24	0.058

Probe without shut-off

9086U Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

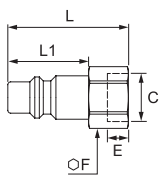


DN	C		E	F	L	L1	kg
5.5	G1/4	9086 23 13	9	17	36	24	0.025
	G3/8	9086 23 17	9	19	36	24	0.025
	G1/2	9086 23 21	12	24	39	24	0.039

Probe without shut-off

9086U Probe, Straight-Through, Female BSPP Thread

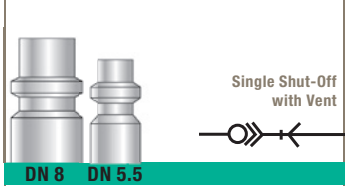
Nickel-plated steel



DN	C		E	F	L	L1	kg
8.5	G1/4	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

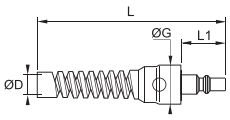
Probe without shut-off
30 Series probe (DN 8.5) compatible with ISO B series C 9000 couplers (DN 8)

ISO B Profile



9080U Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

Nickel-plated steel, NBR

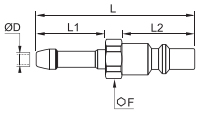


DN	ØD		G	L	L1	kg
5.5	8	9080U06 08	24	112	24	0.052
	10	9080U06 10	24	112	24	0.044
8	10	9080U08 10	24	114	26	0.095
	12	9080U08 12	29.5	125	26	0.096

Probe without shut-off

9094U Probe, Straight-Through, with Hosetail

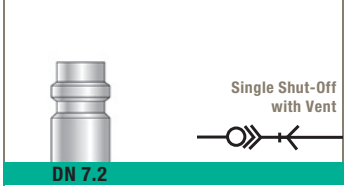
Nickel-plated steel



DN	ØD		F	L	L1	L2	kg
5.5	6	9094U06 06	14	51	24	25	0.016
	8	9094U06 08	14	51	27	25	0.017
	10	9094U06 10	14	51	24	25	0.018
8	8	9094U08 08	17	51	24	25	0.027
	10	9094U08 10	17	51	27	25	0.028
	13	9094U08 13	17	51	24	25	0.031

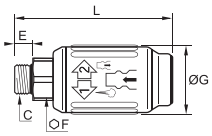
Probe without shut-off

European Profile



9401E Coupler, Male BSPP Thread

Technical polymer, nickel-plated brass, NBR

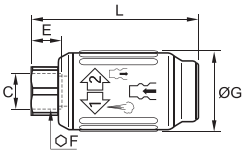


DN	C		E	F	G	L	kg
7.2	G1/4	9401E07 13	6.5	22	36.5	80	0.124
	G3/8	9401E07 17	7.5	22	36.5	81	0.122
	G1/2	9401E07 21	9	25	36.5	83.5	0.136

C 9000 Series: single shut-off = 2000 Nl/min

9414E Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

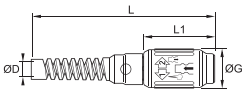


DN	C		E	F	G	L	kg
7.2	G1/4	9414E07 13	12	22	36.5	73	0.118
	G3/8	9414E07 17	12	22	36.5	73	0.109
	G1/2	9414E07 21	15	27	36.5	78	0.130

C 9000 Series: single shut-off = 2000 Nl/min

9410E Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

Technical polymer, nickel-plated brass, NBR

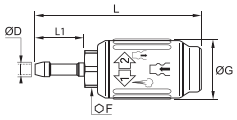


DN	ØD		G	L	L1	kg
7.2	10	9410E07 10	36.5	151	63	0.175
	12	9410E07 12	36.5	151	63	0.180

C 9000 Series: single shut-off = 2000 Nl/min

9421E Coupler with Hosetail

Technical polymer, nickel-plated brass, NBR

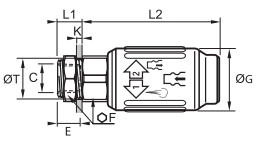


DN	ØD		F	G	L	L1	kg
7.2	8	9421E07 08	22	36.5	93	26	0.113
	10	9421E07 10	22	36.5	93	26	0.114
	13	9421E07 13	22	36.5	97	30	0.119

C 9000 Series: single shut-off = 2000 Nl/min

9416E Coupler, Bulkhead Mountable, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR



DN	C		E	F	G	K max	L1	L2	ØT min	kg
7.2	G3/8	9416E07 17	12	24	36.5	7	14.5	74	22.5	0.153

C 9000 Series: single shut-off = 2000 Nl/min

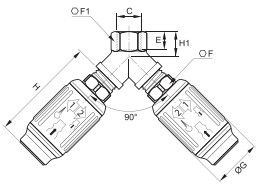
European Profile

Single Shut-Off with Vent

DN 7.2

9440E Y Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

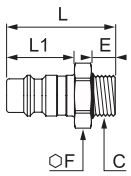


DN	C		E	F	F1	G	H	H1	kg
7.2	G1/2	9440E07 21	14	25	25	36.5	78	19	0.335

C 9000 Series: single shut-off = 2000 Nl/min

9087E Probe, Straight-Through, Male BSPP Thread

Nickel-plated steel,technical polymer

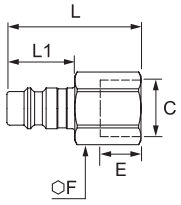


DN	C		E	F	L	L1	kg
7.2	G1/4	9087E07 13	9	14	34	20	0.018
	G3/8	9087E07 17	9	17	34	20	0.025
	G1/2	9087E07 21	12	22	38	20	0.048

Probe without shut-off

9086E Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

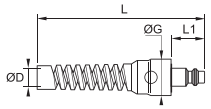


DN	C		E	F	L	L1	kg
7.4	G1/8	9086 25 10	7	14	32	20	0.015
	G1/4	9086 25 13	9	17	38.5	20	0.027
	G3/8	9086 25 17	9	19	33	20	0.027
	G1/2	9086 25 21	12	24	36	20	0.050

Probe without shut-off

9080E Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

Nickel-plated steel, NBR

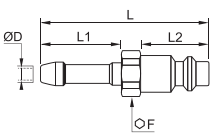


DN	ØD		G	L	L1	kg
7.2	10	9080E07 10	24	114	20	0.102
	12	9080E07 12	29.5	125	20	0.088

Probe without shut-off

9094E Probe, Straight-Through, with Hosetail

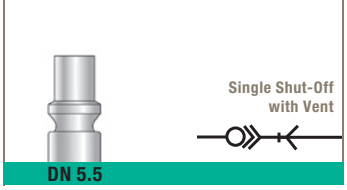
Nickel-plated steel



DN	ØD		F	L	L1	L2	kg
7.2	8	9094E07 08	17	48	20	25	0.014
	10	9094E07 10	17	48	20	25	0.016
	13	9094E07 13	17	48	20	25	0.019

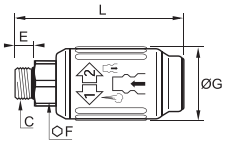
Probe without shut-off

ARO Profile



9401A Coupler, Male BSPP Thread

Technical polymer, nickel-plated brass, NBR

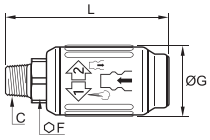


DN	C		E	F	G	L	kg
5.5	G1/4	9401A06 13	6.5	17	31.5	70.5	0.105
	G3/8	9401A06 17	9	21	31.5	73.5	0.123
	G1/2	9401A06 21	9	25	31.5	70.5	0.150

C 9000 series: single shut-off = 1250 Nl/min

9405A Coupler, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

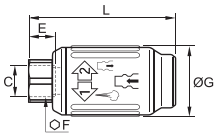


DN	C		F	G	L	kg
5.5	R1/4	9405A06 13	17	31.5	73	0.105
	R3/8	9405A06 17	19	31.5	74.5	0.110
	R1/2	9405A06 21	22	31.5	79.5	0.140

C 9000 series: single shut-off = 1250 Nl/min

9414A Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

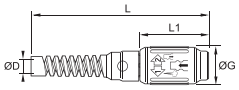


DN	C		E	F	G	L	kg
5.5	G1/4	9414A06 13	12	17	31.5	64.5	0.095
	G3/8	9414A06 17	12	22	31.5	70	0.115
	G1/2	9414A06 21	15	27	31.5	76	0.145

C 9000 series: single shut-off = 1250 Nl/min

9410A Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

Technical polymer, nickel-plated brass, NBR

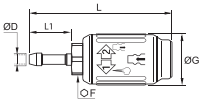


DN	ØD		G	L	L1	kg
5.5	8	9410A06 08	31.5	143	54	0.140
	10	9410A06 10	31.5	143	54	0.175

C 9000 series: single shut-off = 1250 Nl/min

9421A Coupler with Hosetail

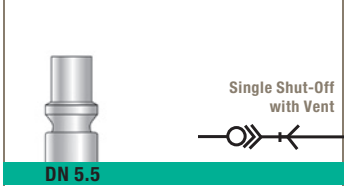
Technical polymer, nickel-plated brass, NBR



DN	ØD		F	G	L	L1	kg
5.5	6	9421A06 06	17	31.5	86.5	26	0.110
	8	9421A06 08	17	31.5	86.5	26	0.100
	10	9421A06 10	17	31.5	86.5	26	0.100

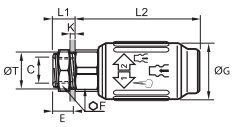
C 9000 series: single shut-off = 1250 Nl/min

ARO Profile



9416A Coupler, Bulkhead Mountable, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

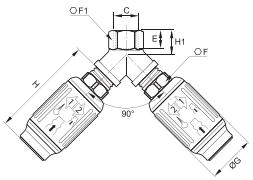


DN	C		E	F	G	K	L1	L2	ØT	kg
5.5	G1/4	9416A06 13	12	22	31.5	6	12.5	66.5	18.5	0.135

C 9000 series: single shut-off = 1250 Nl/min

9440A Y Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

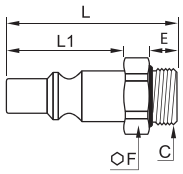


DN	C		E	F	F1	G	H	H1	kg
5.5	G3/8	9440A06 17	11.5	19	20	31.5	68	16	0.263

C 9000 series: single shut-off = 1250 Nl/min

9087A Probe, Straight-Through, Male BSPP Thread

Nickel-plated steel, technical polymer

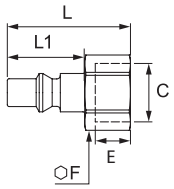


DN	C		E	F	L	L1	kg
5.5	G1/4	9087A06 13	9	17	36	22	0.020
	G3/8	9087A06 17	9	19	36	22	0.024
	G1/2	9087A06 21	12	24	40	22	0.039

Probe without shut-off

9086A Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

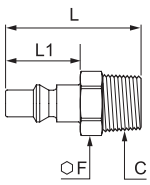


DN	C		E	F	L	L1	kg
5.5	G1/4	9086 22 13	9	17	35.5	22	0.024
	G3/8	9086 22 17	10	19	35.5	22	0.023
	G1/2	9086 22 21	12	24	38	22	0.039

Probe without shut-off

9084A Probe, Straight-Through, Male BSPT Thread

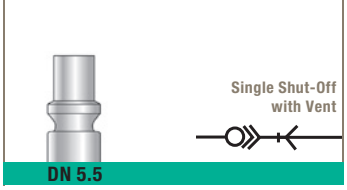
Nickel-plated steel



DN	C		F	L	L1	kg
5.5	R1/4	9084 22 13	14	40.5	22	0.020
	R3/8	9084 22 17	17	40.5	22	0.031
	R1/2	9084 22 21	22	46	22	0.048

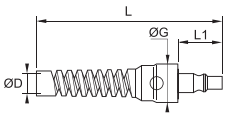
Probe without shut-off

ARO Profile



9080A Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

Nickel-plated steel, NBR

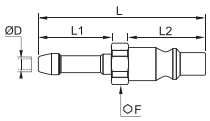


DN	ØD		G	L	L1	kg
5.5	8	9080A06 08	24	118	22	0.028
	10	9080A06 10	24	118	22	0.027

Probe without shut-off

9094A Probe, Straight-Through, with Hosetail

Nickel-plated steel



DN	ØD		F	L	L1	L2	kg
5.5	6	9094A06 06	14	48.5	22	25	0.012
	8	9094A06 08	14	48.5	22	25	0.014
	10	9094A06 10	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

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9101 24 & 30 Series Page 8-25

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9114 24 & 30 Series Page 8-25

9123 23 Series Page 8-25

9123 24 & 30 Series Page 8-26

9087 23, 24 & 30 Series Page 8-26

9086 23, 24 & 30 Series Page 8-26

9085 23, 24 & 30 Series Page 8-26

9293 23 & 24Series Page 8-26

European Profile, 25, 26 and 27 Series

9101 26 Series Page 8-27

9201 25 & 27 Series Page 8-27

9114 26 Series Page 8-27

9214 25 & 27 Series Page 8-27

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9087 25, 26 & 27 Series Page 8-28

9086 25, 26 & 27 Series Page 8-28

9085 25, 26 & 27 Series Page 8-28

9287 25 & 27 Series Page 8-28

9286 25 & 27 Series Page 8-29

9285 25 & 27 Series Page 8-29

9293 25 & 27 Series Page 8-29

ARO Profile, 14 and 22 Series

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9123 14 Series Page 8-30

9123 22 Series Page 8-31

9084 14 & 22 Series Page 8-31

9086 14 & 22 Series Page 8-31

9085 14 & 22 Series Page 8-31

ISO C Profile, 18 Series

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Asian Profile, 13 Series

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9084 Page 8-33

9086 Page 8-33

9085 Page 8-33

UK Profile, 17 and 19 Series

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9114 17 Series Page 8-34

9123 17 Series Page 8-34

9084 17 Series Page 8-34

9086 17 Series Page 8-34

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Metal Quick-Acting Coupler Range

Nickel-Plated Brass Quick-Acting Couplers

German Profile, 20 and 21 Series

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9226 20 Series Page 8-36
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9085 20 Series Page 8-37
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9095 20 Series Page 8-37

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9226 21 Series Page 8-38
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Standard Series

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Midi Series

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Metal Quick-Acting Coupler Range

Stainless Steel Quick-Acting Couplers

European Profile, X25 and X27 Series

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German Profile, X20 Series

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German Profile, X21 Series

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Quick-Acting Mould Couplers

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Metal Quick-Acting Coupler Accessories

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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

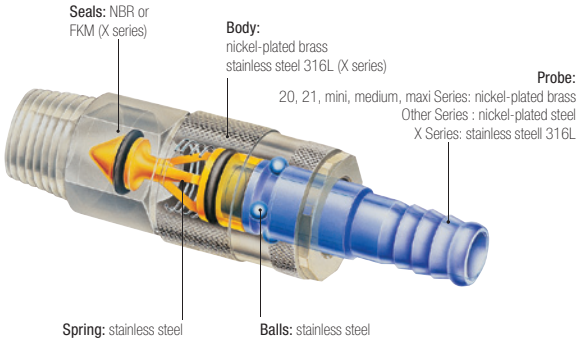
Workshops
Flushing
Spraying
Packaging
Factory Automation
Filling Systems
Cleaning

Technical Characteristics

Compatible Fluids	Compressed air, water (see compatibility chart below)
Working Pressure	0 to 20 bar 0 to 35 bar (stainless steel series)
Working Temperature	-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

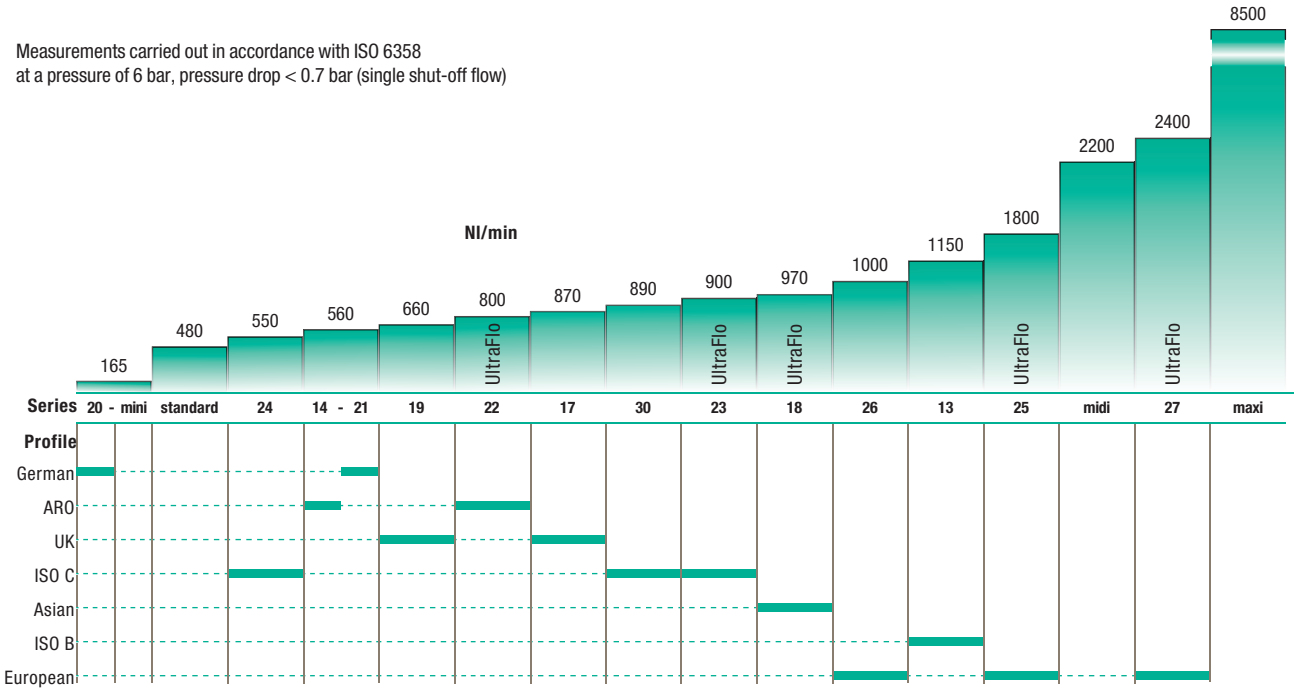


Silicone-free

Metal Quick-Acting Couplers

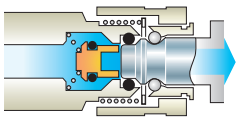
Metal Quick-Acting Coupler Technology and Flow Rates

Measurements carried out in accordance with ISO 6358
at a pressure of 6 bar, pressure drop < 0.7 bar (single shut-off flow)



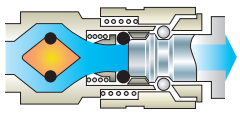
"Typical" quick-acting coupler

Standard "poppet" technology
Flow: 1000 Nl/min



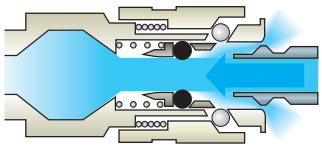
UltraFlo quick-acting coupler

"Optimal flow" technology
Flow: 1700 Nl/min

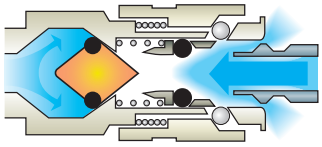


3 Shut-Off Functions

Straight-Through

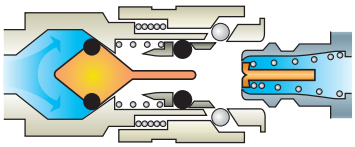


Single Shut-Off



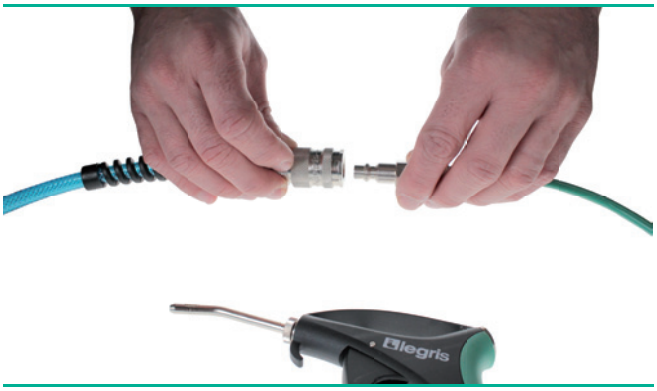
Single shut-off coupler
+ probe without shut-off
When disconnected, the fluid path is closed upstream (body side).

Double Shut-Off

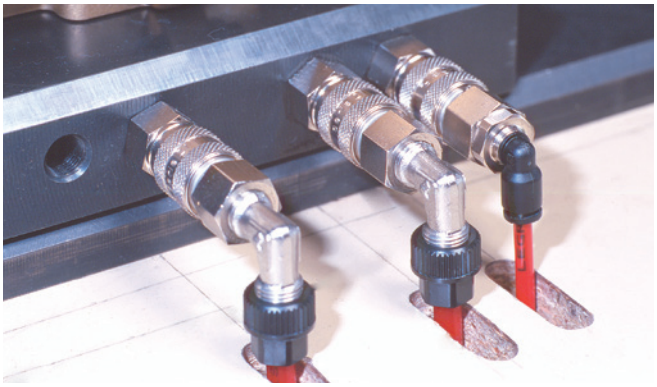


Double shut-off coupler
+ probe with shut-off
When disconnected, the fluid path is closed upstream (body side) and downstream (probe side).

Operation



Installation Options



Chemical Compatibility Chart for Metal Couplers

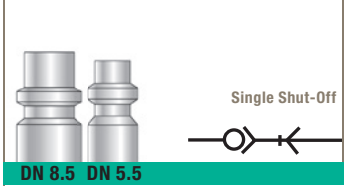
Below are the fluids compatible with Parker Legris metal quick-acting couplers.
This list is not exhaustive: if your fluid is not shown here, please contact us.

Acetamide
Ammonium chloride
Ammonium in solution
Argon
ASTM no. 1 oil
ASTM no. 2 oil
ASTM no. 3 oil
Butyl alcohol
Calcium carbonate
Castor oil
Coconut oil
Cod liver oil
Cold ammonium
Corn oil
Cotton seed oil
Cyclohexane
Detergents
Diesel oil
Diethylene glycol
Engine oil
Ethane
Ethanol
Ethyl alcohol
Ethyl silicate
Ethylene glycol
Fuel oil
Gear oil
Glycerin
Glycerol triacetate
Glycol
Groundnut oil
Heating 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
Isododecane
Isooctane
Lard
Linseed oil
Methanol
Mineral oil
Neatsfoot oil
N-Heptane
N-Hexane
Nitrogen
N-Pentane
Octadecane
Olive oil
Pentane N
Petroleum
Propyl alcohol
Propylene glycol
Seawater
Silicone grease
Soap solution
Sodium hydroxide
Sodium sulphate
Soya bean oil
Stearyl alcohol
Terebenthine
Trisodium phosphate
Vaseline
Vaseline oil
Vegetable oil
Water
Wood oil
Zinc 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.

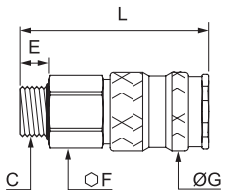
ISO B Profile

23, 24 and 30 Series



9101 Coupler, Male BSPP Thread

Nickel-plated brass, NBR

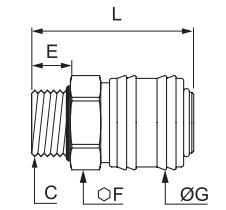


DN	C		E	F	G	L	kg
5.5	G1/4	9101 23 13	9	19	23	57	0.091
	G3/8	9101 23 17	9	19	23	57	0.093
	G1/2	9101 23 21	12	22	23	60	0.132

23 Series (DN 5.5): single shut-off = 900 Nl/min

9101 Coupler, Male BSPP Thread

Nickel-plated brass, NBR

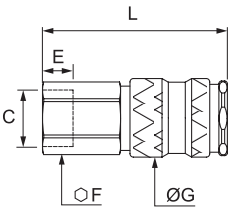


DN	C		E	F	G	L	kg
5.5	G1/4	9101 24 13	9	22	27	43	0.079
	G3/8	9101 24 17	9	22	27	43	0.082
	G1/2	9101 24 21	12	24	27	46	0.093
8.5	G1/4	9101 30 13	9	22	29	49	0.097
	G3/8	9101 30 17	9	22	29	49	0.099
	G1/2	9101 30 21	12	22	29	52	0.110

24 Series (DN 5.5): single shut-off = 550 Nl/min
30 Series (DN 8.5) : single shut-off = 890 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

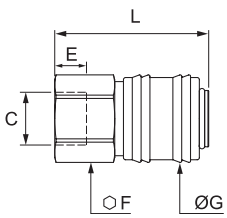


DN	C		E	F	G	L	kg
5.5	G1/4	9114 23 13	9	19	23	55	0.095
	G3/8	9114 23 17	9	19	23	55	0.087
	G1/2	9114 23 21	12	24	23	57	0.120

23 Series (DN 5.5): single shut-off = 900 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

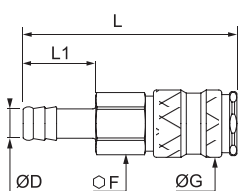


DN	C		E	F	G	L	kg
5.5	G1/4	9114 24 13	9	22	27	43	0.096
	G3/8	9114 24 17	9	22	27	43	0.091
	G1/2	9114 24 21	12	24	27	46	0.098
8.5	G1/4	9114 30 13	9	22	29	49	0.113
	G3/8	9114 30 17	9	22	29	49	0.107
	G1/2	9114 30 21	12	24	29	52	0.115

24 Series (DN 5.5): single shut-off = 550 Nl/min
30 Series (DN 8.5): single shut-off = 890 Nl/min

9123 Coupler with Barb Connection

Nickel-plated brass, NBR

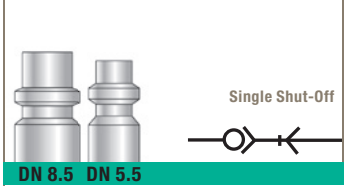


DN	ØD		F	G	L	L1	kg
5.5	6	9123 23 06	19	23	73	25	0.091
	8	9123 23 08	19	23	73	25	0.092
	10	9123 23 10	19	23	73	25	0.094

23 Series (DN 5.5): single shut-off = 900 Nl/min

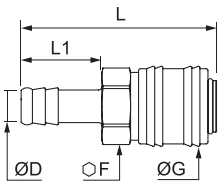
ISO B Profile

23, 24 and 30 Series



9123 Coupler with Barb Connection

Nickel-plated brass, NBR

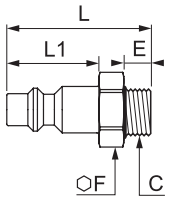


DN	ØD		F	G	L	L1	kg
5.5	6	9123 24 06	21	27	60	25	0.081
	8	9123 24 08	21	27	60	25	0.082
	10	9123 24 10	21	27	60	25	0.082
8.5	8	9123 30 08	22	30	66	25	0.098
	10	9123 30 10	22	30	66	25	0.098
	13	9123 30 13	22	30	66	25	0.103

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

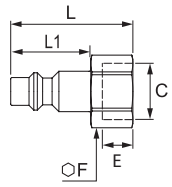


DN	C		E	F	L	L1	kg
5.5	G1/8	9087 23 10	9	13	39	24	0.017
	G1/4	9087 23 13	9	17	38	24	0.025
	G3/8	9087 23 17	9	19	38	24	0.032
	G1/2	9087 23 21	12	22	42	24	0.048
8.5	G1/4	9087 30 13	9	17	42	28	0.030
	G3/8	9087 30 17	9	19	42	28	0.036
	G1/2	9087 30 21	12	24	46	28	0.058

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

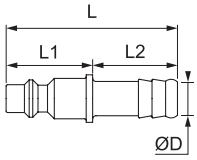


DN	C		E	F	L	L1	kg
5.5	G1/8	9086 23 10	9	17	36	24	0.021
	G1/4	9086 23 13	9	17	36	24	0.025
	G3/8	9086 23 17	9	19	36	24	0.025
	G1/2	9086 23 21	12	24	39	24	0.039
8.5	G1/4	9086 30 13	10	17	40	28	0.032
	G3/8	9086 30 17	10	19	42	28	0.035
	G1/2	9086 30 21	12	24	43	28	0.046

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

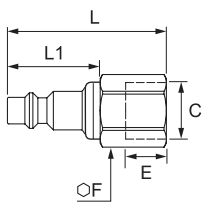


DN	ØD		L	L1	L2	kg
5.5	6	9085 23 06	51	24	25	0.016
	8	9085 23 08	51	27	25	0.017
	10	9085 23 10	51	24	25	0.018
8.5	8	9085 30 08	55	28	25	0.027
	10	9085 30 10	55	28	25	0.028
	13	9085 30 13	55	28	25	0.031

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

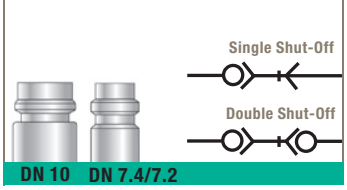


DN	C		E	F	L	L1	kg
5.5	G1/4	9293 23 13	10	22	47	24	0.058

Probe with shut-off

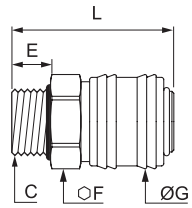
European Profile

25, 26 and 27 Series



9101 Coupler, Male BSPP Thread

Nickel-plated brass, NBR

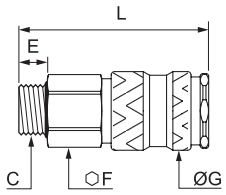


DN	C		E	F	G	L	kg
7.2	G1/8	9101 26 10	9	22	27	43	0.073
	G1/4	9101 26 13	9	22	27	43	0.073
	G3/8	9101 26 17	9	22	27	13	0.075
	G1/2	9101 26 21	12	22	27	46	0.087

26 Series (DN 7.2): single shut-off = 1000 Nl/min

9201 Coupler, Male BSPP Thread

Nickel-plated brass, NBR

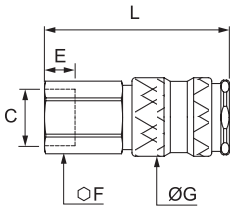


DN	C		E	F	G	L	kg
7.4	G1/4	9201 25 13	9	19	23	57	0.095
	G3/8	9201 25 17	9	19	23	57	0.097
	G1/2	9201 25 21	12	22	23	60	0.135
10	G3/8	9201 27 17	9	24	27	65	0.160
	G1/2	9201 27 21	12	24	27	70	0.166
	G3/4	9201 27 27	16	27	27	74	0.239

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

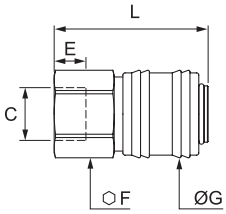


DN	C		E	F	G	L	kg
7.4	G1/4	9214 25 13	9	19	23	55	0.098
	G3/8	9214 25 17	9	19	23	55	0.092
	G1/2	9214 25 21	12	24	23	57	0.124
10	G3/8	9214 27 17	12	24	27	68	0.177
	G1/2	9214 27 21	12	24	27	68	0.166
	G3/4	9214 27 27	16	32	27	74	0.255

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

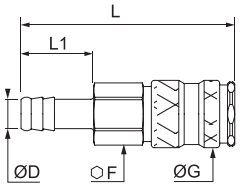


DN	C		E	F	G	L	kg
7.2	G1/4	9114 26 13	9	22	27	43	0.089
	G3/8	9114 26 17	9	22	27	43	0.084
	G1/2	9114 26 21	12	24	27	46	0.090

26 Series (DN 7.2): single shut-off = 1000 Nl/min

9223 Coupler with Barb Connection

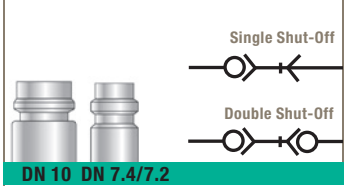
Nickel-plated brass, NBR



DN	ØD		F	G	L	L1	kg
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

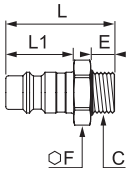
25 Series (DN 7.4): single shut-off = 1800 Nl/min / 25 Series (DN 7.4): double shut-off = 710 NL/min
27 Series (DN 10): single shut-off = 2400 Nl/min / 27 Series (DN 7.4): double shut-off = 900 NL/min

European Profile
25, 26 and 27 Series



9087 Probe, Straight-Through, Male BSPP Thread

Nickel-plated steel, technical polymer

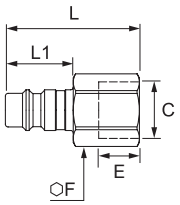


DN	C		E	F	L	L1	kg
7.4	G1/8	9087 25 10	7	13	31	20	0.018
	G1/4	9087 25 13	9	14	34	20	0.018
	G3/8	9087 25 17	9	17	34	20	0.025
	G1/2	9087 25 21	12	22	38	20	0.047
10	G3/8	9087 27 17	9	19	37	22	0.031
	G1/2	9087 27 21	12	22	40	22	0.046
	G3/4	9087 27 27	16	32	45	22	0.085

Probe without shut-off
25 Series probe (DN 7.4) compatible with 26 Series coupler (DN 7.2)

9086 Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

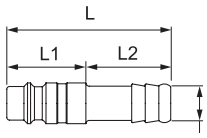


DN	C		E	F	L	L1	kg
7.4	G1/8	9086 25 10	7	14	32	20	0.015
	G1/4	9086 25 13	9	17	38.5	20	0.027
	G3/8	9086 25 17	9	19	33	20	0.027
	G1/2	9086 25 21	12	24	36	20	0.050
10	G3/8	9086 27 17	9	19	34	22	0.026
	G1/2	9086 27 21	12	24	38	22	0.041
	G3/4	9086 27 27	16	32	42	22	0.090

Probe without shut-off
25 Series probe (DN 7.4) compatible with 26 Series coupler (DN 7.2)

9085 Probe, Straight-Through, with Barb Connection

Nickel-plated steel

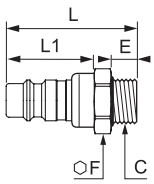


DN	ØD		L	L1	L2	kg
7.4	6	9085 25 06	48	20	25	0.013
	8	9085 25 08	48	20	25	0.015
	9	9085 25 09	48	20	25	0.015
	10	9085 25 10	48	20	25	0.016
	13	9085 25 13	48	20	25	0.020
10	8	9085 27 08	48	22	25	0.021
	10	9085 27 10	48	22	25	0.023
	13	9085 27 13	48	22	25	0.026
	19	9085 27 19	48	22	25	0.038

Probe without shut-off
25 Series probe (DN 7.4) compatible with 26 Series coupler (DN 7.2)

9287 Probe, Valved, Male BSPP Thread

Nickel-plated brass, NBR

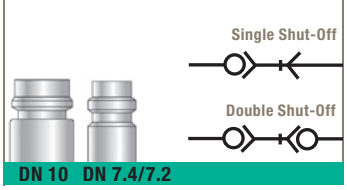


DN	C		E	F	L	L1	kg
7.4	G1/8	9287 25 10	7	22	41	20	0.046
	G1/4	9287 25 13	9	22	43	20	0.046
	G3/8	9287 25 17	9	22	43	20	0.049
	G1/2	9287 25 21	12	22	46	20	0.060
10	G3/8	9287 27 17	9	24	58	22	0.086
	G1/2	9287 27 21	12	24	58	22	0.090
	G3/4	9287 27 27	16	27	62	22	0.132

Probe with shut-off
25 Series probe (DN 7.4) not compatible with 26 Series coupler (DN 7.2)

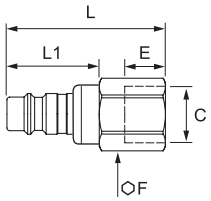
European Profile

25, 26 and 27 Series



9286 Probe, Valved, Female BSPP Thread

Nickel-plated steel, NBR

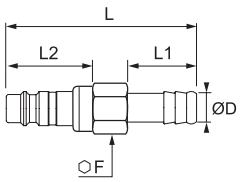


DN	C		E	F	L	L1	kg
7.4	G1/8	9286 25 10	10	22	43	20	0.068
	G1/4	9286 25 13	10	22	43	20	0.062
	G3/8	9286 25 17	10	22	43	20	0.058
	G1/2	9286 25 21	12	24	46	20	0.064
10	G3/8	9286 27 17	9	24	55	22	0.096
	G1/2	9286 27 21	12	24	55	22	0.086
	G3/4	9286 27 27	16	32	58	22	0.149

Probe with shut-off
25 Series Probe (DN 7.4) not compatible with 26 Series coupler (DN 7.2)

9285 Probe, Valved, with Barb Connection

Nickel-plated steel, NBR

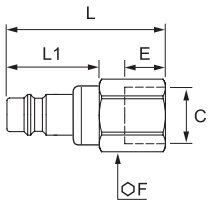


DN	ØD		F	L	L1	L2	kg
7.4	6	9285 25 06	21	60	20	25	0.047
	8	9285 25 08	21	60	20	25	0.048
	10	9285 25 10	21	60	20	25	0.049
	13	9285 25 13	21	60	20	25	0.053
10	8	9285 27 08	24	75	22	25	0.097
	10	9285 27 10	24	75	22	25	0.099
	13	9285 27 13	24	75	22	25	0.103
	19	9285 27 19	24	75	22	25	0.105

Probe with shut-off
25 Series Probe (DN 7.4) not compatible with 26 Series coupler (DN 7.2)

9293 Probe, Valved, Anti-Whiplash, Female BSPP Thread

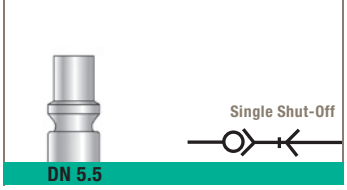
Nickel-plated steel, NBR



DN	C		E	F	L	L1	kg
7.4	G3/8	9293 25 17	10	22	43	20	0.052

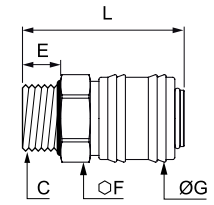
Probe with shut-off
25 Series Probe (DN 7.4) not compatible with 26 Series coupler (DN 7.2)

ARO Profile
14 and 22 Series



9101 Coupler, Male BSPP Thread

Nickel-plated brass, NBR

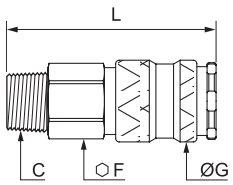


DN	C		E	F	G	L	kg
5.5	G1/4	9101 14 13	9	22	27	43	0.080
	G3/8	9101 14 17	9	22	27	43	0.081
	G1/2	9101 14 21	12	24	27	46	0.093

14 Series (DN 5.5): single shut-off = 560 Nl/min

9105 Coupler, Male BSPT Thread

Nickel-plated brass, NBR

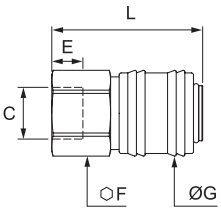


DN	C		F	G	L	kg
5.5	R1/4	9105 22 13	19	23	61	0.098
	R3/8	9105 22 17	12	19	60	0.096
	R1/2	9105 22 21	22	23	61	0.114

22 Series (DN 5.5): single shut-off = 800 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

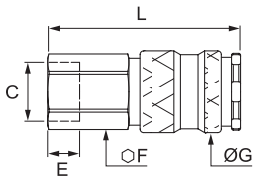


DN	C		E	F	G	L	kg
5.5	G1/4	9114 14 13	9	22	27	43	0.095
	G3/8	9114 14 17	9	22	27	43	0.091
	G1/2	9114 14 21	12	24	27	46	0.098

14 Series (DN 5.5): single shut-off = 560 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

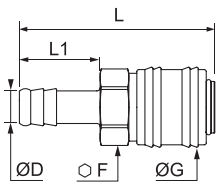


DN	C		E	F	G	L	kg
5.5	G1/4	9114 22 13	9	19	23	56	0.098
	G3/8	9114 22 17	9	19	23	55	0.091
	G1/2	9114 22 21	12	24	23	58	0.123

22 Series (DN 5.5): single shut-off = 800 Nl/min

9123 Coupler with Barb Connection

Nickel-plated brass, NBR

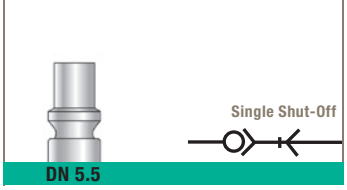


DN	ØD		F	G	L	L1	kg
5.5	6	9123 14 06	21	27	60	25	0.080
	8	9123 14 08	21	27	60	25	0.081
	9	9123 14 09	21	27	60	25	0.082
	10	9123 14 10	21	27	60	25	0.082
	13	9123 14 13	21	27	60	25	0.094

14 Series (DN 5.5): single shut-off = 560 Nl/min

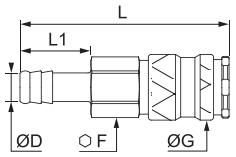
ARO Profile

14 and 22 Series



9123 Coupler with Barb Connection

Nickel-plated brass, NBR

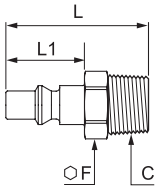


DN	ØD		F	G	L	L1	kg
5.5	6	9123 22 06	19	23	74	25	0.093
	8	9123 22 08	19	23	74	25	0.097
	10	9123 22 10	19	23	74	25	0.098

22 Series (DN 5.5): single shut-off = 800 Nl/min

9084 Probe, Straight-Through, Male BSPT Thread

Nickel-plated steel

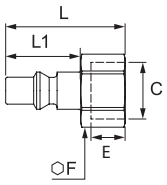


DN	C		F	L	L1	kg
5.5	R1/4	9084 22 13	14	40.5	22	0.020
	R3/8	9084 22 17	17	40.5	22	0.031
	R1/2	9084 22 21	22	46	22	0.048

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

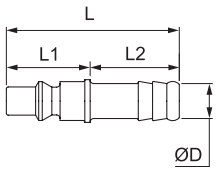


DN	C		E	F	L	L1	kg
5.5	G1/4	9086 22 13	9	17	35.5	22	0.024
	G3/8	9086 22 17	10	19	35.5	22	0.023
	G1/2	9086 22 21	12	24	38	22	0.039

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

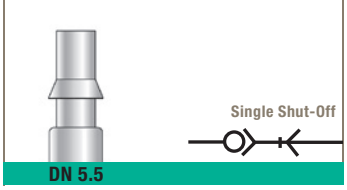
Nickel-plated steel



DN	ØD		L	L1	L2	kg
5.5	6	9085 22 06	48.5	22	25	0.012
	8	9085 22 08	48.5	22	25	0.014
	9	9085 22 09	48.5	22	25	0.014
	10	9085 22 10	48.5	22	25	0.016
	13	9085 22 13	48.5	22	25	0.022

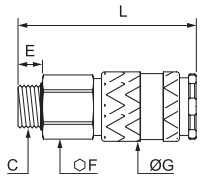
Probe without shut-off
22 Series probe (DN 5.5) compatible with 14 Series coupler (DN 5.5)

ISO C Profile
18 Series



9101 Coupler, Male BSPP Thread

Nickel-plated brass, NBR

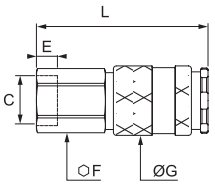


DN	C		E	F	G	L	kg
5.5	G1/4	9101 18 13	9	19	23	60	0.106
	G3/8	9101 18 17	9	19	23	60	0.108

18 Series (DN 5.5) : single shut-off = 970 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

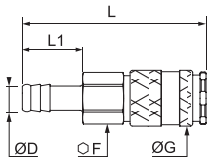


DN	C		E	F	G	L	kg
5.5	G1/4	9114 18 13	9	19	23	58	0.109
	G3/8	9114 18 17	9	19	23	58	0.101

18 Series (DN 5.5) : single shut-off = 970 Nl/min

9123 Coupler with Barb Connection

Nickel-plated brass, NBR

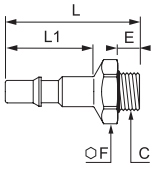


DN	ØD		F	G	L	L1	kg
5.5	6	9123 18 06	19	23	76	25	0.104
	8	9123 18 08	19	23	76	25	0.106
	10	9123 18 10	19	23	76	25	0.108

18 Series (DN 5.5) : single shut-off = 970 Nl/min

9087 Probe, Straight-Through, Male BSPP Thread

Nickel-plated steel

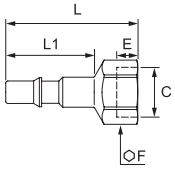


DN	C		E	F	L	L1	kg
5.5	G1/4	9087 18 13	9	17	41	28	0.025
	G3/8	9087 18 17	9	19	41	28	0.028

Probe without shut-off

9086 Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

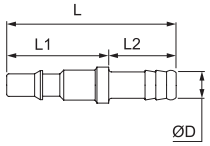


DN	C		E	F	L	L1	kg
5.5	G1/4	9086 18 13	9	17	40	28	0.022
	G3/8	9086 18 17	9	19	41	28	0.024

Probe without shut-off

9085 Probe, Straight-Through, with Barb Connection

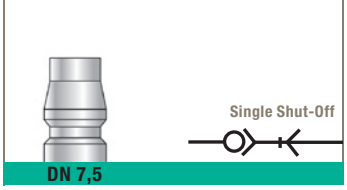
Nickel-plated steel



DN	ØD		L	L1	L2	kg
5.5	6	9085 18 06	56	28	25	0.016
	8	9085 18 08	56	28	25	0.016
	10	9085 18 10	56	28	25	0.018

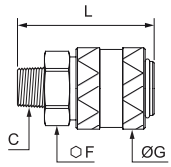
Probe without shut-off

Asian Profile
13 Series



9105 Coupler, Male BSPT Thread

Nickel-plated brass, NBR

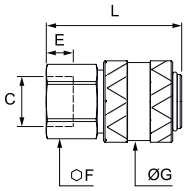


DN	C		F	G	L	kg
7.5	R1/4	9105 13 13	22	27	49	0.086
	R3/8	9105 13 17	22	27	49	0.090
	R1/2	9105 13 21	22	27	53	0.110

13 Series (DN 7.5): single shut-off = 1150 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

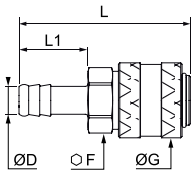


DN	C		E	F	G	L	kg
7.5	G1/4	9114 13 13	9	22	27	45	0.099
	G3/8	9114 13 17	9	22	27	45	0.093
	G1/2	9114 13 21	12	24	27	48	0.102

13 Series (DN 7.5): single shut-off = 1150 Nl/min

9123 Coupler with Barb Connection

Nickel-plated brass, NBR

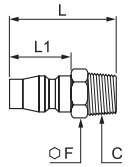


DN	ØD		F	G	L	L1	kg
7.5	8	9123 13 08	21	27	62	25	0.084
	10	9123 13 10	21	27	62	25	0.086
	13	9123 13 13	21	27	62	25	0.089

13 Series (DN 7.5): single shut-off = 1150 Nl/min

9084 Probe, Straight-Through, Male BSPT Thread

Nickel-plated steel

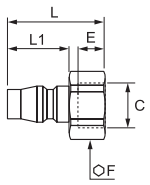


DN	C		F	L	L1	kg
7.5	R1/4	9084 13 13	14	37	12	0.022
	R3/8	9084 13 17	17	37	12	0.028
	R1/2	9084 13 21	22	44	17	0.050

Probe without shut-off

9086 Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

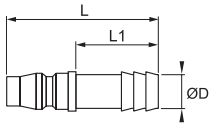


DN	C		E	F	L	L1	kg
7.5	G1/4	9086 13 13	9	17	22	12	0.026
	G3/8	9086 13 17	9	19	33	12	0.024
	G1/2	9086 13 21	12	24	36	17	0.036

Probe without shut-off

9085 Probe, Straight-Through, with Barb Connection

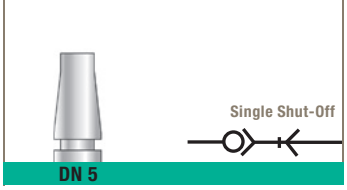
Nickel-plated steel



DN	ØD		L	L1	kg
7.5	8	9085 13 08	48	25	0.020
	10	9085 13 10	48	25	0.021
	13	9085 13 13	48	25	0.026

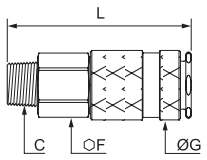
Probe without shut-off

UK Profile
17 Series



9105 Coupler, Male BSPT Thread

Nickel-plated brass, NBR

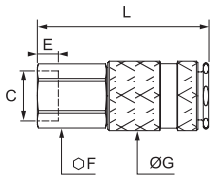


DN	C		F	G	L	kg
5	R1/4	9105 17 13	19	23	63	0.109
	R3/8	9105 17 17	19	23	62	0.108
	R1/2	9105 17 21	22	23	63	0.124

17 Series (DN 5) : Single shut-off = 870 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

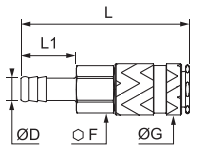


DN	C		E	F	G	L	kg
5	G1/4	9114 17 13	9	19	23	58	0.110
	G3/8	9114 17 17	9	19	23	57	0.103
	G1/2	9114 17 21	12	24	23	60	0.135

17 Series (DN 5) : Single shut-off = 870 Nl/min

9123 Coupler with Barb Connection

Nickel-plated brass, NBR

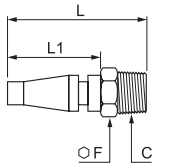


DN	ØD		F	G	L	L1	kg
5	6	9123 17 06	19	23	76	25	0.106
	8	9123 17 08	19	23	76	25	0.108
	10	9123 17 10	19	23	76	25	0.111

17 Series (DN 5): single shut-off = 870 Nl/min

9084 Probe, Straight-Through, Male BSPT Thread

Nickel-plated steel

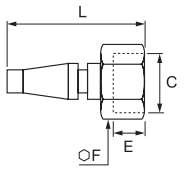


DN	C		F	L	L1	kg
5	R1/8	9084 17 10	11	37	9	0.016
	R1/4	9084 17 13	14	42	12	0.021
	R3/8	9084 17 17	17	42	12	0.014
	R1/2	9084 17 21	22	48	17	0.048

Probe without shut-off

9086 Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

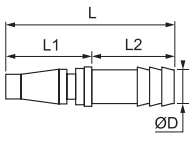


DN	C		E	F	L	kg
5	G1/8	9086 17 10	7	14	33	0.016
	G1/4	9086 17 13	9	17	33	0.022
	G3/8	9086 17 17	9	19	33	0.023
	G1/2	9086 17 21	12	24	36	0.030

Probe without shut-off

9085 Probe, Straight-Through, with Barb Connection

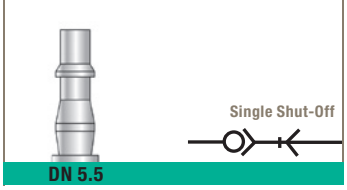
Nickel-plated steel



DN	ØD		L	L1	L2	kg
5	6	9085 17 06	58	25	33	0.015
	8	9085 17 08	52	25	27	0.016
	10	9085 17 10	52	25	27	0.018

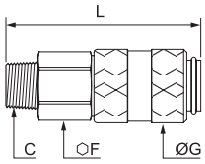
Probe without shut-off

UK Profile
19 Series



9105 Coupler, Male BSPT Thread

Nickel-plated brass, NBR

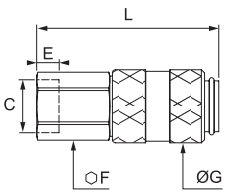


DN	C		F	G	L	kg
5.5	R1/4	9105 19 13	19	23	63	0.100
	R3/8	9105 19 17	19	23	62	0.099
	R1/2	9105 19 21	22	23	68	0.117

19 Series (DN 5.5): single shut-off = 660 Nl/min

9114 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

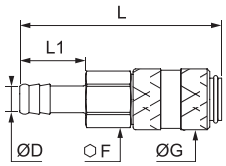


DN	C		E	F	G	L	kg
5.5	G1/4	9114 19 13	9	19	23	58	0.102
	G3/8	9114 19 17	9	19	23	58	0.095
	G1/2	9114 19 21	12	24	23	60	0.127

19 Series (DN 5.5): single shut-off = 660 Nl/min

9123 Coupler with Barb Connection

Nickel-plated brass, NBR

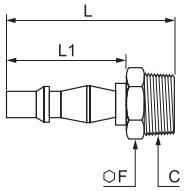


DN	ØD		F	G	L	L1	kg
5.5	6	9123 19 06	19	23	76	25	0.097
	8	9123 19 08	19	23	76	25	0.099
	10	9123 19 10	24	23	76	25	0.100

19 Series (DN 5.5): single shut-off = 660 Nl/min

9084 Probe, Straight-Through, Male BSPT Thread

Nickel-plated steel

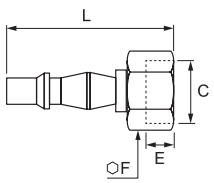


DN	C		F	L	L1	kg
5.5	R1/4	9084 19 13	14	50	12	0.022
	R3/8	9084 19 17	17	50	12	0.026
	R1/2	9084 19 21	22	56	17	0.051

Probe without shut-off

9086 Probe, Straight-Through, Female BSPP Thread

Nickel-plated steel

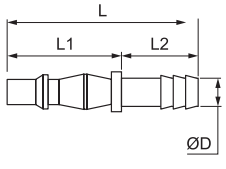


DN	C		E	F	L	kg
5.5	G1/4	9086 19 13	9	17	46	0.025
	G3/8	9086 19 17	9	19	47	0.026
	G1/2	9086 19 21	12	24	50	0.039

Probe without shut-off

9085 Probe, Straight-Through, with Barb Connection

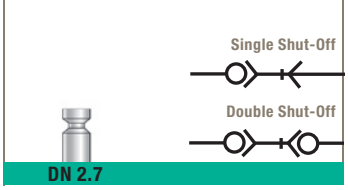
Nickel-plated steel



DN	ØD		L	L1	L2	kg
5.5	6	9085 19 06	60	25	35	0.016
	8	9085 19 08	60	25	35	0.017
	10	9085 19 10	60	25	35	0.019

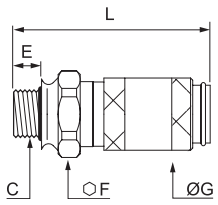
Probe without shut-off

German Profile
20 Series



9201 Coupler, Male BSPP and Metric Thread

Nickel-plated brass, NBR

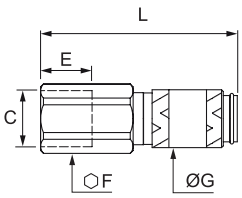


DN	C		E	F	G	L	kg
2.7	M5x0.8	9201 20 19	5	9	10	26	0.009
	G1/8	9201 20 10	7	11	10	28	0.012

20 Series (DN 2.7): single shut-off = 165 Nl/min
20 Series (DN 2.7): double shut-off = 130 Nl/min

9214 Coupler, Female BSPP and Metric Thread

Nickel-plated brass, NBR

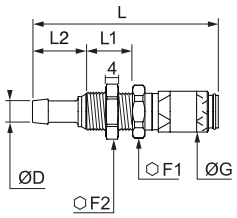


DN	C		E	F	G	L	kg
2.7	M5x0.8	9214 20 19	5	9	10	25	0.010
	G1/8	9214 20 10	7	12	10	28	0.013

20 Series (DN 2.7): single shut-off = 165 Nl/min
20 Series (DN 2.7): double shut-off = 130 Nl/min

9226 Coupler, Bulkhead Mountable, with Barb Connection

Nickel-plated brass, NBR

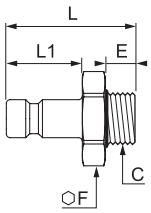


DN	ØD		F1	F2	G	L	L1	L2	kg
2.7	3	9226 20 03	12	11	10	51	17	13	0.015
	4	9226 20 04	12	11	10	51	17	13	0.016

20 Series (DN 2.7): single shut-off = 165 Nl/min
20 Series (DN 2.7): double shut-off = 130 Nl/min

9087 Probe, Straight-Through, Male BSPP and Metric Thread

Nickel-plated brass

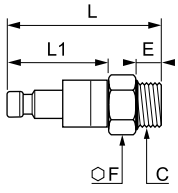


DN	C		E	F	L	L1	kg
2.7	M5x0.8	9087 20 19	5	7	18	10	0.002
	G1/8	9087 20 10	7	11	18	10	0.005

Probe without shut-off

9287 Probe, Valved, Male BSPP and Metric Thread

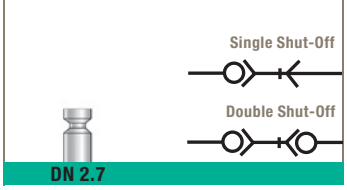
Nickel-plated brass, NBR



DN	C		E	F	L	L1	kg
2.7	M5x0.8	9287 20 19	5	7	28	10	0.006
	G1/8	9287 20 10	7	11	30	10	0.009

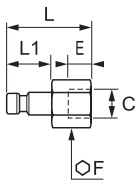
Probe with shut-off

German Profile
20 Series



9086 Probe, Straight-Through, Female BSPP and Metric Thread

Nickel-plated brass

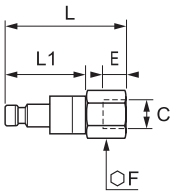


DN	C		E	F	L	L1	kg
2.7	M5x0.8	9086 20 19	5	7	17	10	0.003
	G1/8	9086 20 10	7	12	19	10	0.006

Probe without shut-off

9286 Probe, Valved, Female BSPP and Metric Thread

Nickel-plated brass, NBR

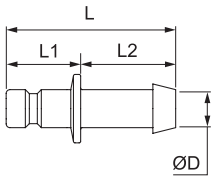


DN	C		E	F	L	L1	kg
2.7	M5x0.8	9286 20 19	5	7	27	10	0.007
	G1/8	9286 20 10	7	12	30	10	0.010

Probe with shut-off

9085 Probe, Straight-Through, with Barb Connection

Nickel-plated brass

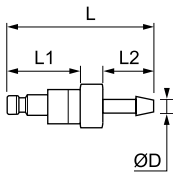


DN	ØD		L	L1	L2	kg
2.7	3	9085 20 03	24	10	13	0.002
	4	9085 20 04	24	10	13	0.002
	5	9085 20 05	24	9	13	0.003

Probe without shut-off

9285 Probe, Valved, with Barb Connection

Nickel-plated brass, NBR

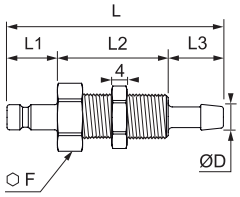


DN	ØD		L	L1	L2	kg
2.7	3	9285 20 03	37	10	13	0.007
	4	9285 20 04	37	10	13	0.007
	5	9285 20 05	37	10	13	0.007

Probe with shut-off

9095 Probe, Straight-Through, Bulkhead Mountable, with Barb Connection

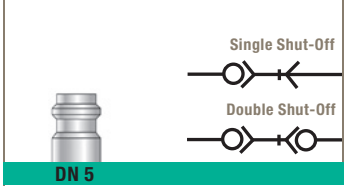
Nickel-plated brass



DN	ØD		F	L	L1	L2	L3	kg
2.7	3	9095 20 03	11	44	10	17	13	0.012
	4	9095 20 04	11	44	10	17	13	0.012

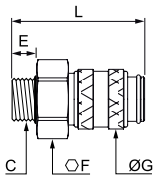
Probe without shut-off

German Profile
21 Series



9201 Coupler, Male BSPP Thread

Nickel-plated brass, NBR

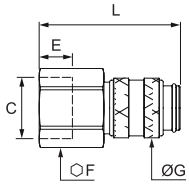


DN	C		E	F	G	L	kg
5	G1/8	9201 21 10	7	14	16	36	0.027
	G1/4	9201 21 13	9	17	16	38	0.036

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

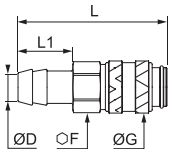


DN	C		E	F	G	L	kg
5	G1/8	9214 21 10	9	14	16	36	0.030
	G1/4	9214 21 13	7	17	16	38	0.040

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

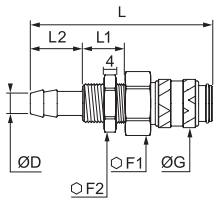


DN	ØD		F	G	L	L1	kg
5	4	9223 21 04	14	16	46	17	0.027
	6	9223 21 06	14	16	46	17	0.027
	8	9223 21 08	14	16	46	17	0.028

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

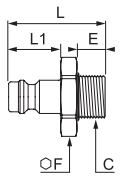


DN	ØD		F1	F2	G	L	L1	L2	kg
5	4	9226 21 04	14	14	16	60	14	17	0.034
	6	9226 21 06	17	17	16	60	14	17	0.048
	8	9226 21 08	17	17	16	60	14	17	0.047

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

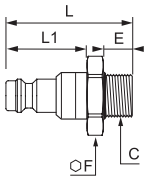


DN	C		E	F	L	L1	kg
5	G1/8	9087 21 10	7	14	25	14	0.012
	G1/4	9087 21 13	9	17	28	14	0.019

Probe without shut-off

9287 Probe, Valved, Male BSPP Thread

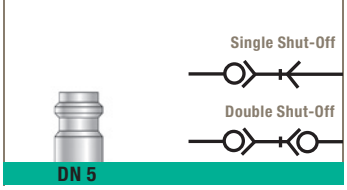
Nickel-plated brass, NBR



DN	C		E	F	L	L1	kg
5	G1/8	9287 21 10	7	14	40	14	0.023
	G1/4	9287 21 13	9	17	42	14	0.031

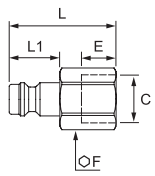
Probe with shut-off

German Profile
21 Series



9086 Probe, Straight-Through, Female BSPP Thread

Nickel-plated brass

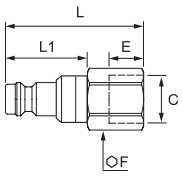


DN	C		E	F	L	L1	kg
5	G1/8	9086 21 10	8	14	25	14	0.014
	G1/4	9086 21 13	9	17	26	14	0.018

Probe without shut-off

9286 Probe, Valved, Female BSPP Thread

Nickel-plated brass, NBR

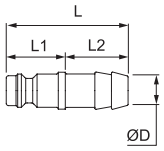


DN	C		E	F	L	L1	kg
5	G1/8	9286 21 10	8	14	40	14	0.025
	G1/4	9286 21 13	9	17	42	14	0.035

Probe with shut-off

9085 Probe, Straight-Through, with Barb Connection

Nickel-plated brass

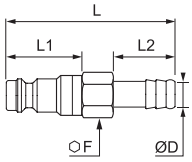


DN	ØD		L	L1	L2	kg
5	4	9085 21 04	32	14	17	0.006
	6	9085 21 06	32	14	17	0.008
	8	9085 21 08	32	14	17	0.009

Probe without shut-off

9285 Probe, Valved, with Barb Connection

Nickel-plated brass, NBR

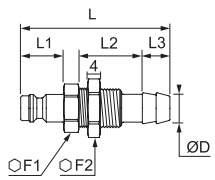


DN	ØD		F	L	L1	L2	kg
5	4	9285 21 04	14	50	14	17	0.022
	6	9285 21 06	14	50	14	17	0.023
	8	9285 21 08	14	50	14	17	0.024

Probe with shut-off

9095 Probe, Straight-Through, Bulkhead Mountable with Barb Connection

Nickel-plated brass



DN	ØD		F1	F2	L	L1	L2	L3	kg
5	4	9095 21 04	14	14	50	14	14	17	0.019
	6	9095 21 06	14	17	50	14	14	17	0.027
	8	9095 21 08	14	17	50	14	14	17	0.028

Probe without shut-off

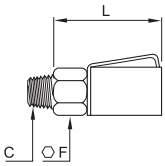
Mini Series

Single Shut-Off

Double Shut-Off

0171 Coupler, Male BSPT and Parallel Metric Thread

Technical polymer, nickel-plated brass, NBR

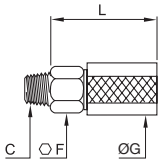


DN	C		Colour	F	L	kg
2	M7x1	0171 02 55 01		10	21	0.007
	R1/8	0171 02 10 01		10	21	0.010
	R1/8	0171 02 10 02		10	21	0.010
	R1/8	0171 02 10 03		10	21	0.010
	R1/8	0171 02 10 04		10	21	0.010
	R1/8	0171 02 10 05		10	21	0.010

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

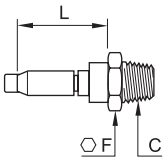


DN	C		Colour	F	G	L	kg
3	R1/8	0171 03 10 01		13	17	24.5	0.020
	R1/8	0171 03 10 02		13	17	24.5	0.020
	R1/8	0171 03 10 03		13	17	24.5	0.020
	R1/8	0171 03 10 04		13	17	24.5	0.020
	R1/8	0171 03 10 05		13	17	24.5	0.020

Straight-through

0183 Probe, Valved, Male BSPT Thread

Nickel-plated brass, NBR

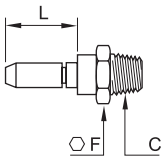


DN	C		F	L	kg
2	R1/8	0183 02 10	10	13	0.007

Probe with shut-off

0184 Probe, Straight-Through, Male BSPT Thread

Nickel-plated brass

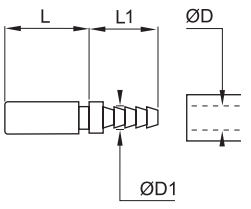


DN	C		F	L	kg
2	R1/8	0184 02 10	10	13	0.006

Probe without shut-off

0181 Probe without Shut-off, Male BSPT Thread

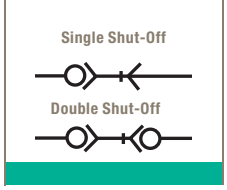
Nickel-plated brass



DN	ØD	ØD1		L	L1	kg
2	3	3.3	0181 03 04	11.5	13.5	0.010

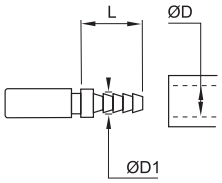
Probe without shut-off

Mini Series



0181 Probe, Straight-Through with Barb Connection for Polyamide (PA) Tubing

Nickel-plated brass

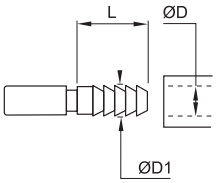


DN	ØD	ØD1		L	kg
3	4	4.7	0181 04 06	19	0.005

Probe without shut-off

0180 Probe, Straight-Through with Barb Connection for Flexible Tubing

Nickel-plated brass

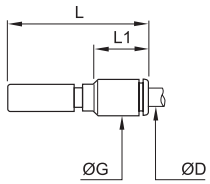


DN	ØD	ØD1		L	kg
3	4	6	0180 04 00	19	0.007
	5	6.5	0180 05 00	19	0.007

Probe without shut-off

3150 Probe, Straight-Through with LF 3000® Push-In Connection

Nickel-plated brass, NBR



DN	ØD		G	L	L1	kg
3	4	3150 00 61	8.5	39	18	0.008

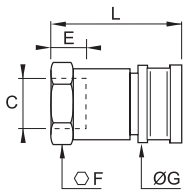
Probe without shut-off

Standard Series

Single Shut-Off

0172 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

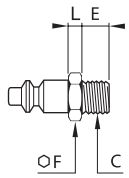


DN	C		E	F	G	L	kg
5	G1/4	0172 05 13	11	19	21	47	0.085

Standard series: single shut-off = 480 Nl/min

0187 Probe, Straight-Through, Male BSPP Thread

Zinc-plated steel

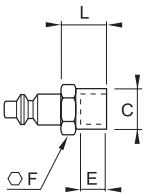


DN	C		E	F	L	kg
5	G1/8	0187 05 10	7	14	4	0.018
	G1/4	0187 05 13	9.5	17	5	0.027

Probe without shut-off

0186 Probe, Straight-Through, Female BSPP Thread

Zinc-plated steel

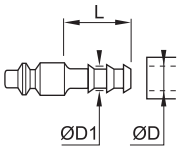


DN	C		E	F	L	kg
5	G1/4	0186 05 13	12	17	17	0.028

Probe without shut-off

0185 Probe, Straight-Through, with Barb Connection for Flexible Tubing

Zinc-plated steel

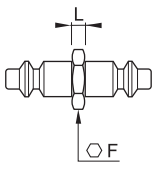


DN	ØD	ØD1		L	kg
5	4	6	0185 04 00	22.5	0.014
	7	9	0185 07 00	22.5	0.017
	10	12.2	0185 10 00	22.5	0.014

Probe without shut-off

0189 Double Probe

Zinc-plated steel



DN		F	L	kg
5	0189 05 00	12	4	0.026

Probe without shut-off

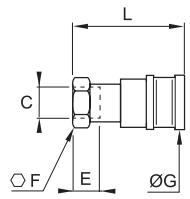
Midi Series

Without Shut-Off

Single Shut-Off

0172 Coupler, Female BSPP Thread

Nickel-plated brass, NBR

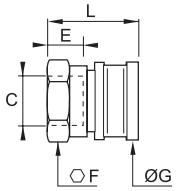


DN	C		E	F	G	L	kg
12	G3/8	0172 12 17	16	27	29	56	0.155
	G1/2	0172 12 21	16	27	29	56	0.142

Midi series: single shut-off = 2200 Nl/min

2272 Coupler, Straight-Through, Female BSPP Thread

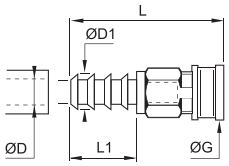
Nickel-plated brass, NBR



DN	C		E	F	G	L	kg
12	G1/2	2272 12 21	10	24	29	33	0.072
	G3/4	2272 12 27	10	30	29	34.5	0.074
	G1	2272 12 34	10	36	29	34.5	0.087

2511 Coupler with Barb Connection for Hose

Nickel-plated brass, NBR

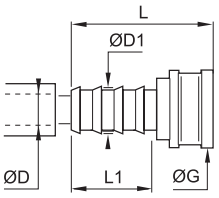


DN	ØD	ØD1		G	L	L1	kg
12	12	13.5	2511 12 12	29	75	32	0.146
	15	16.5	2511 12 15	29	75	32	0.147
	19	20.5	2511 12 19	29	81	38	0.159

Midi series: single shut-off = 2200 Nl/min

2297 Coupler, Straight-Through, with Barb Connection for Hose

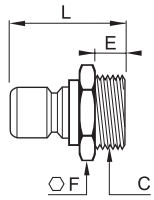
Nickel-plated brass, NBR



DN	ØD	ØD1		G	L	L1	kg
12	12	13.5	2297 12 12	29	51	27	0.073
	15	16.5	2297 12 15	29	51	27	0.076
	19	20.5	2297 12 19	29	57	33	0.090

2294 Probe, Straight-Through, Male BSPP Thread

Nickel-plated brass



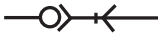
DN	C		E	F	L	kg
12	G3/8	2294 12 17	6	22	31.5	0.031
	G1/2	2294 12 21	9.5	22	37	0.044
	G3/4	2294 12 27	13.5	27	41	0.068
	G1	2294 12 34	10.5	34	36	0.072

Probe without shut-off

Midi Series

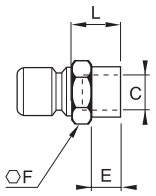
Without Shut-Off

Single Shut-Off



0196 Probe, Straight-Through, Female BSPP Thread

Nickel-plated brass

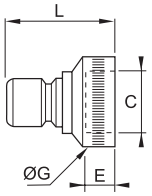


DN	C		E	F	L	kg
12	G1/4	0196 12 13	12	17	16	0.027
	G3/8	0196 12 17	12	21	15	0.034
	G1/2	0196 12 21	14	26	17	0.050

Probe without shut-off

2296 Probe, Straight-Through, Female BSPP Thread

Nickel-plated brass

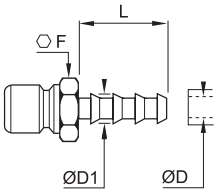


DN	C		E	G	L	kg
12	G1/2	2296 12 21	11	24	31.5	0.031
	G3/4	2296 12 27	11	30	38	0.058
	G1	2296 12 34	11	36	36.5	0.058

Probe without shut-off

0195 Probe, Straight-Through, with Barb Connection for Flexible Tubing

Nickel-plated brass

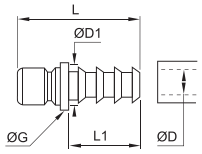


DN	ØD	ØD1		F	L	kg
12	7	9	0195 07 00	17	29.5	0.026
	10	12.2	0195 10 00	17	29.5	0.028
	13	15.2	0195 13 00	17	29.5	0.030
	16	18.5	0195 16 00	21	36.5	0.048

Probe without shut-off

2295 Probe, Straight-Through, with Barb Connection for Flexible Hose

Nickel-plated brass

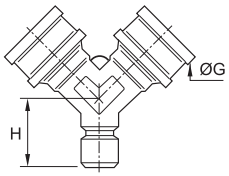


DN	ØD	ØD1		G	L	L1	kg
12	12	13.5	2295 12 12	17	48	27	0.026
	15	16.5	2295 12 15	18	48	27	0.034
	19	20.5	2295 12 19	24	57	33	0.053

Probe without shut-off

2293 Y Coupler, Straight-Through

Nickel-plated brass, NBR



DN		G	H	kg
12	2293 12 00	29	27	0.139

Probe without shut-off
Midi Series: straight-through = 2200 Nl/min

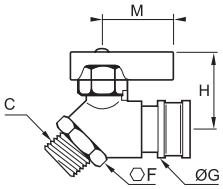
Midi Series

Without Shut-Off

Single Shut-Off

2270 Coupler with Tap, Male BSPP Thread

Nickel-plated brass, NBR

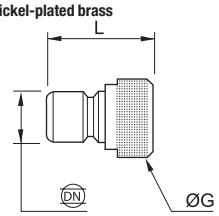


DN	C		F	G	H	M	kg
12	G1/2	2270 21 00	28	29	40.5	35	0.272

Flow = 2200 Nl/min

2203 Plug

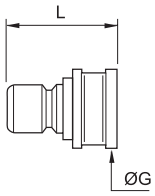
Nickel-plated brass



DN		G	L	kg
12	2203 12 00	20	34	0.042

2292 Universal Coupler Adaptor

Nickel-plated brass, NBR

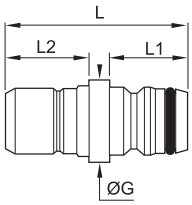


DN		G	L	kg
12	2292 12 00	29	40.5	0.083

Without shut-off
This adaptor provides interchangeability with numerous components (especially watering accessories).

2398 Universal Probe Adaptor

Nickel-plated brass, NBR

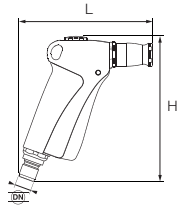


DN		G	L	L1	L2	kg
12	2398 12 01	20	43	19	18.5	0.035

This adaptor provides interchangeability with numerous components (especially watering accessories).

2299 Water Pistol

Zamak, Nickel-plated brass, NBR

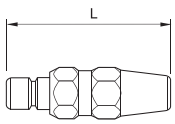


DN		H	L	kg
12	2299 12 01	140	126	0.471

This pistol allows independent control of:
- the flow rate (trigger)
- type of jet (adjustable to a fine mist) by the adjustable Probe

2299 Adjustable Nozzle

Nickel-plated brass, NBR



DN		L	kg
12	2299 12 20	77.4	0.137

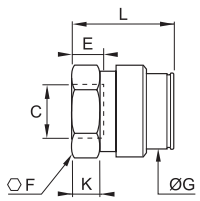
This nozzle allows adjustment of the spray.

Maxi Series

Without Shut-Off

2272 Coupler, Straight-Through, Female BSPP Thread

Nickel-plated brass, NBR

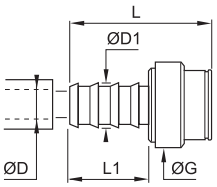


DN	C		E	F	G	K	L	kg
19	G1	2272 18 34	9	36	42	11	45	0.182

Maxi series: straight-through = 8500 Nl/min

2297 Coupler, Straight-Through with Barb Connection for Hose

Nickel-plated brass, NBR

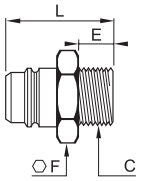


DN	ØD	ØD1		G	L	L1	kg
19	19	20.7	2297 18 20	39.5	69	37	0.163

Maxi series: straight-through = 8500 Nl/min

2294 Coupler, Straight-Through, Male BSPP Thread

Nickel-plated brass

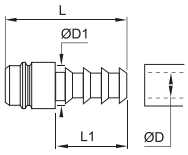


DN	C		E	F	L	kg
19	G3/4	2294 18 27	10.5	27	42.5	0.071
	G1	2294 18 34	13	34	46	0.102

Probe without shut-off

2295 Coupler, Straight-Through with Barb Connection for Flexible Hose

Nickel-plated brass

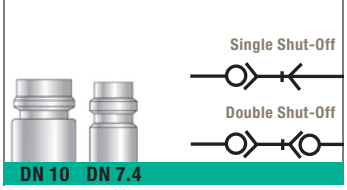


DN	ØD	ØD1		L	L1	kg
19	19	21	2295 18 20	69	41	0.068

Probe without shut-off

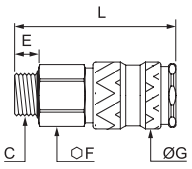
Stainless Steel European Profile

X25 and X27 Series



9201 Coupler, Male BSPP Thread

Stainless steel 316L, FKM

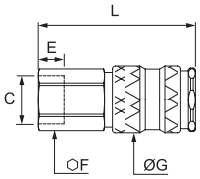


DN	C		E	F	G	L	kg
7.4	G1/4	9201X25 13	10.5	19	23	59	0.095
	G3/8	9201X25 17	9	19	23	57.5	0.094
	G1/2	9201X25 21	12	24	23	60.5	0.131
10	G3/8	9201X27 17	9	24	27	57.5	0.131
	G1/2	9201X27 21	12	24	27	59.5	0.134
	G3/4	9201X27 27	16	32	27	60.5	0.171

X25 Series (DN 7.4): single shut-off = 1800 Nl/min / X25 Series (DN 7.4): double shut-off = 710 Nl/min
X27 Series (DN 10): single shut-off = 2400 Nl/min / X27 Series (DN 10): double shut-off = 900 Nl/min

9214 Coupler, Female BSPP Thread

Stainless steel 316L, FKM

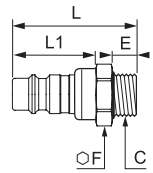


DN	C		E	F	G	L	kg
7.4	G1/4	9214X25 13	10	19	23	56	0.096
	G3/8	9214X25 17	9	19	23	55	0.089
	G1/2	9214X25 21	12	24	23	58	0.119
10	G3/8	9214X27 17	11	24	27	56	0.140
	G1/2	9214X27 21	12	24	27	56	0.127
	G3/4	9214X27 27	16	32	27	60	0.191

X25 Series (DN 7.4): single shut-off = 1800 Nl/min / X25 Series (DN 7.4): double shut-off = 710 Nl/min
X27 Series (DN 10): single shut-off = 2400 Nl/min / X27 Series (DN 10): double shut-off = 900 Nl/min

9287 Probe, Valved, Male BSPP Thread

Stainless steel 316L, FKM

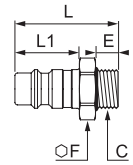


DN	C		E	F	L	L1	kg
7.4	G1/4	9287X25 13	10	19	43	20	0.052
	G3/8	9287X25 17	9	19	43	20	0.053
	G1/2	9287X25 21	12	24	46	20	0.089
10	G3/8	9287X27 17	9	24	58	22	0.080
	G1/2	9287X27 21	12	24	58	22	0.084
	G3/4	9287X27 27	16	32	62	22	0.122

Probe with shut-off

9087 Probe, Straight-Through, Male BSPP Thread

Stainless steel 316L

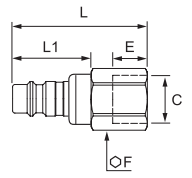


DN	C		E	F	L	L1	kg
7.4	G1/4	9087X25 13	9	17	34	20	0.018
	G3/8	9087X25 17	9	19	34	20	0.014
	G1/2	9087X25 21	12	24	36	20	0.047
10	G3/8	9087X27 17	9	19	37	22	0.013
	G1/2	9087X27 21	12	24	40	22	0.052
	G3/4	9087X27 27	16	32	45	22	0.086

Probe without shut-off

9286 Probe, Valved, Female BSPP Thread

Stainless steel 316L, FKM

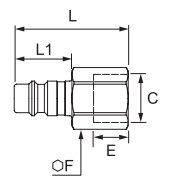


DN	C		E	F	L	L1	kg
7.4	G1/4	9286X25 13	10	19	54	20	0.056
	G3/8	9286X25 17	9	19	53	20	0.049
	G1/2	9286X25 21	12	24	56	20	0.079
10	G3/8	9286X27 17	9	24	55	22	0.090
	G1/2	9286X27 21	12	24	55	22	0.080
	G3/4	9286X27 27	16	24	58	22	0.140

Probe with shut-off

9086 Probe, Straight-Through, Female BSPP Thread

Stainless steel 316L

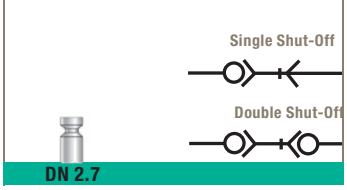


DN	C		E	F	L	L1	kg
7.4	G1/4	9086X25 13	12	10	33	20	0.023
	G3/8	9086X25 17	12	10	33	20	0.022
	G1/2	9086X25 21	14	12	35	20	0.035
10	G3/8	9086X27 17	9	19	33	22	0.026
	G1/2	9086X27 21	12	24	37	22	0.037
	G3/4	9086X27 27	16	32	42	22	0.091

Probe without shut-off

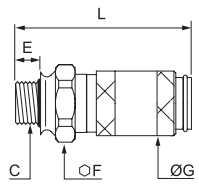
Stainless Steel German Profile

X20 Series



9201 Coupler, Male BSPP and Metric Thread

Stainless steel 316L, FKM

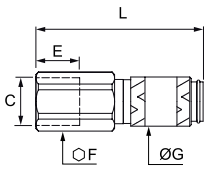


DN	C		E	F	G	L	kg
2.7	M5x0.8	9201X20 19	5	9	10	26	0.008
	G1/8	9201X20 10	7	11	10	28	0.011

X20 Series (DN 2.7) : single shut-off = 165 Nl/min
X20 Series (DN 2.7) : double shut-off = 130 Nl/min

9214 Coupler, Female BSPP and Metric Thread

Stainless steel 316L, FKM

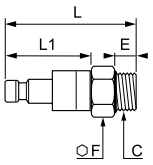


DN	C		E	F	G	L	kg
2.7	M5x0.8	9214X20 19	5	9	10	26	0.009
	G1/8	9214X20 10	7	12	10	28	0.012

X20 Series (DN 2.7) : single shut-off = 165 Nl/min
X20 Series (DN 2.7) : double shut-off = 130 Nl/min

9287 Probe, Valved, Male BSPP and Metric Thread

Stainless steel 316L, FKM

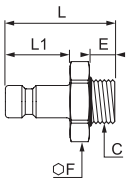


DN	C		E	F	L	L1	kg
2.7	M5x0.8	9287X20 19	5	9	28	10	0.005
	G1/8	9287X20 10	7	11	30	10	0.009

Probe with shut-off

9087 Probe, Straight-Through, Male BSPP and Metric Thread

Stainless steel 316L

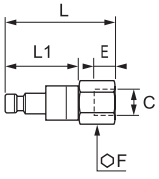


DN	C		E	F	L	L1	kg
2.7	M5x0.8	9087X20 19	5	7	18	10	0.010
	G1/8	9087X20 10	7	11	20	10	0.015

Probe without shut-off

9286 Probe, Valved, Female BSPP and Metric Thread

Stainless steel 316L, FKM

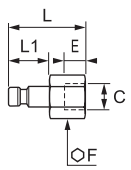


DN	C		E	F	L	L1	kg
2.7	M5x0.8	9286X20 19	5	9	26	10	0.010
	G1/8	9286X20 10	7	12	30	10	0.014

Probe with shut-off

9086 Probe, Straight-Through, Female BSPP and Metric Thread

Stainless steel 316L

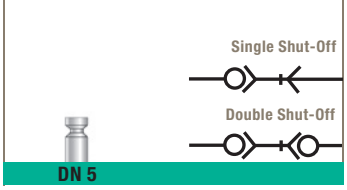


DN	C		E	F	L	L1	kg
2.7	M5x0.8	9086X20 19	5	7	17	10	0.002
	G1/8	9086X20 10	7	12	19	10	0.005

Probe without shut-off

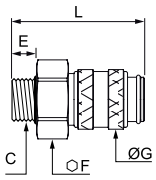
Stainless Steel German Profile

X21 Series



9201 Coupler, Male BSPP Thread

Stainless steel 316L, FKM

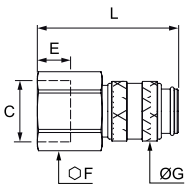


DN	C		E	F	G	L	kg
5	G1/8	9201X21 10	7	14	16	36	0.026
	G1/4	9201X21 13	9	17	16	38	0.034

X21 Series (DN 5): single shut-off = 560 Nl/min
X21 Series (DN 5): double shut-off = 310 Nl/min

9214 Coupler, Female BSPP Thread

Stainless steel 316L, FKM

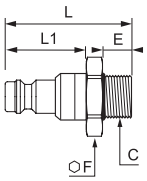


DN	C		E	F	G	L	kg
5	G1/8	9214X21 10	9	14	16	36	0.027
	G1/4	9214X21 13	9	17	16	38	0.037

X21 Series (DN 5): single shut-off = 560 Nl/min
X21 Series (DN 5): double shut-off = 310 Nl/min

9287 Probe, Valved, Male BSPP Thread

Stainless steel 316L, FKM

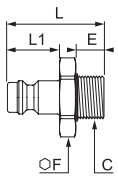


DN	C		E	F	L	L1	kg
5	G1/8	9287X21 10	7	14	40	14	0.021
	G1/4	9287X21 13	9	17	42	14	0.030

Probe with shut-off

9087 Probe, Straight-Through, Male BSPP Thread

Stainless steel 316L

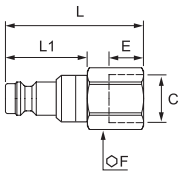


DN	C		E	F	L	L1	kg
5	G1/8	9087X21 10	7	14	25	14	0.011
	G1/4	9087X21 13	9	17	28	14	0.018

Probe without shut-off

9286 Probe, Valved, Female BSPP Thread

Stainless steel 316L, FKM

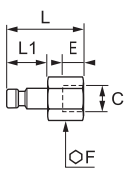


DN	C		E	F	L	L1	kg
5	G1/8	9286X21 10	7	14	40	14	0.024
	G1/4	9286X21 13	9	17	42	14	0.033

Probe with shut-off

9086 Probe, Straight-Through, Female BSPP Thread

Stainless steel 316L



DN	C		E	F	L	L1	kg
5	G1/8	9086X21 10	8	14	25	14	0.013
	G1/4	9086X21 13	9	17	25	14	0.017

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

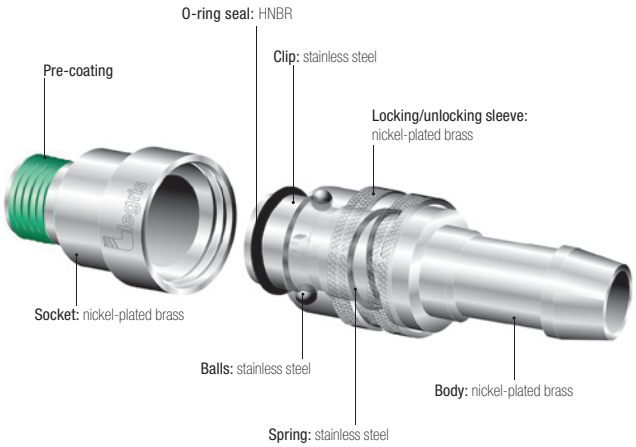
Applications

Plastic Injection Moulding
Cooling
Die-Casting
Rubber Overmoulding
Printing
Coating & Laminating

Technical Characteristics

Compatible Fluids	Cold water, coolants, hot water, oil
Working Pressure	0 to 10 bar
Working Temperature	-15°C to +90°C (water applications) *For temperatures above 90°C, please contact us.*

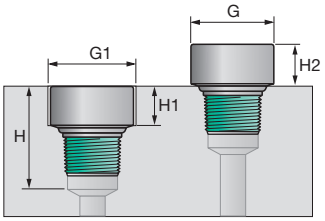
Component Materials



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

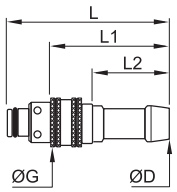


Quick-Acting Mould Couplers

Without Shut-Off

9020 Coupler with Hosetail

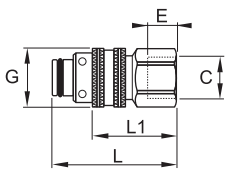
Nickel-plated brass, HNBR



DN	ØD		G	L	L1	L2	kg
8	8	9020T08 08	21	60	44	28	0.050
	10	9020T08 10	21	60	44	28	0.054
	12	9020T08 12	21	65	48	32	0.063
12	13	9020T12 13	32	75	53	32	0.069
	16	9020T12 16	32	75.5	54	32.5	0.172

9040 Coupler, Female BSPP Thread

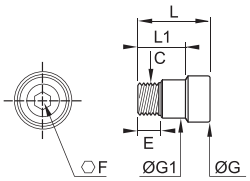
Nickel-plated brass, HNBR



DN	C		E	G	L	L1	kg
8	G1/4	9040T08 13	10.5	21	43	27	0.056
12	G1/2	9040T12 21	15	32	66	44	0.208

9075 Female Socket, Male BSPT Thread

Nickel-plated brass



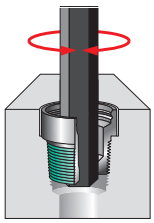
DN	C		E	F	G	G1	L	L1	kg
8	R1/8	9075T08 10	10	6	21	17.5	32	21	0.028
	R1/4	9075T08 13	13	8	21	17.5	33	22	0.031
	R3/8	9075T08 17	13	8	21	-	24	-	0.023
12	R3/8	9075T12 17	13	10	32	25	41	27	0.073
	R1/2	9075T12 21	16	14	32	25	44	30	0.075

Other coupler shapes are available on request:

- 90° angled body, with hosetail
- 45° angled body, female BSPP
- 90° angled body, female BSPP

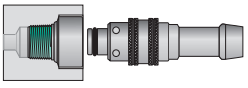
Socket Installation

Two types of installation can be used for moulds. Sockets are fitted into the cavities using an Allen key.



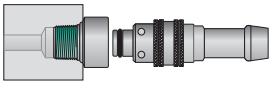
Recessed Socket

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°

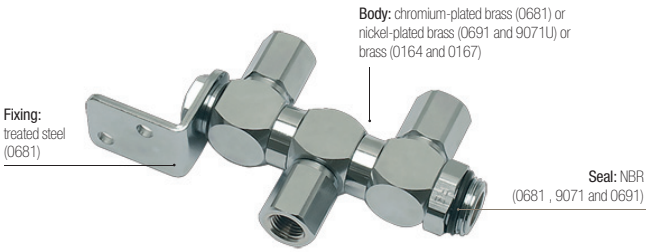
Applications

Pneumatics
Water
Workshops
Industrial Machinery

Technical Characteristics

Compatible Fluids	Industrial fluids
Working Pressure	Oscillating fittings: 0 to 15 bar Flexible fittings: 0 to 10 bar Swivelling multiple tees: 0 to 20 bar
Working Temperature	-5°C to +60°C

Component Materials

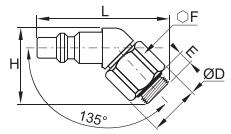


Other accessories are available on request:
- ISO B rotary fitting, male BSPT
- ISO B jointed fitting, male BSPP
- multiple tee with 2 outlets, female male BSPP

Metal Quick-Acting Coupler Accessories

9071U Oscillating ISO B Probe, Male BSPP Thread

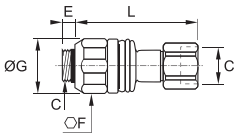
Treated steel, NBR



DN	C		E	F	H	L	kg
6	G1/4	9071U06 13	5.5	19	30	52	0.066
8	G1/4	9071U08 13	5.5	19	30	52	0.077

0691 Flexible Fitting, Female/Male BSPP Thread

Treated steel, NBR

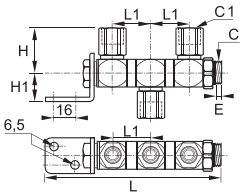


DN	C		E	F	G	L	kg
5.5	G1/4	0691 13 13	5.5	24	25.5	56	0.090

NBR sleeve

0681 Multiple Tee with 3 Female Outlets, Male/Female BSPP Thread

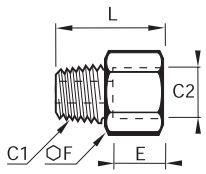
Chrome-plated brass, NBR



C	C1		E	H	H1	L	L1	kg
G1/2	G1/4	0681 13 21	7.5	36	24	138.5	30	0.430

0164 Adaptor, Male NPT/Female BSPP Thread

Brass

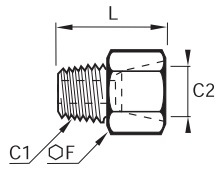


C1	C2		E	F	L	kg
NPT1/8	G1/8	0164 11 10	7.5	14	20	0.015
NPT1/4	G1/4	0164 14 13	11	17	27.5	0.028
NPT3/8	G3/8	0164 18 17	11.5	22	28.5	0.044
NPT1/2	G1/2	0164 22 21	15	27	36.5	0.082
NPT3/4	G3/4	0164 28 27	16.5	32	38.5	0.110

Adaptor for female socket of quick-acting mould couplers

0167 Adaptor, Male BSPT/Female NPT Thread

Brass



C1	C2		F	L	kg
R1/8	NPT1/8	0167 10 11	14	21	0.016
R1/4	NPT1/4	0167 13 14	17	28.5	0.029
R3/8	NPT3/8	0167 17 18	22	29.5	0.047
R1/2	NPT1/2	0167 21 22	27	37.5	0.088
R3/4	NPT3/4	0167 27 28	32	39.5	0.120

Adaptor for female socket of quick-acting mould couplers

Adaptors and Manifolds

A Complete Range of Adaptors

Brass Adaptors

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0144 BSPT/BSPP Page 9-7
0152 BSPT Page 9-7
0145 BSPP Page 9-7
0158 BSPT/BSPP Page 9-7
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0167 BSPT/NPT Page 9-8
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0163 BSPT/BSPP Page 9-9
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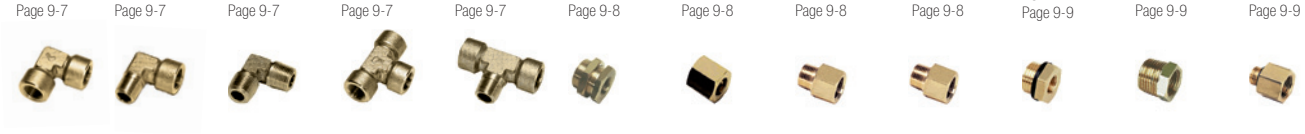

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0121 BSPT Page 9-9
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0123 BSPT Page 9-10
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Nickel-Plated Brass Adaptors

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Stainless Steel Adaptors

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1863 BSPT/BSPP Page 9-20
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1823 BSPT Page 9-21
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A Complete Range of Manifolds, Plugs and Accessories

Brass and Aluminium Manifolds

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Brass Plugs

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Nickel-Plated Brass Hollow Hex Plug

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Steel Plugs

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Sealing Accessories

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Tube Supports

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1827 Stainless Steel Page 9-33

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

Applications

Packaging
Robotics
Textile
Pneumatics
Automotive Process
Food Process

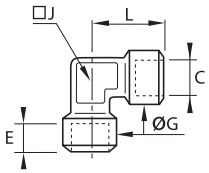
Technical Characteristics

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 1¼" to 2": 100 bar, without sealing washer	60 bar	1/8" to 1/2": 200 bar 3/4" and 1": 150 bar 1¼" to 2": 100 bar, without sealing washer	1/8" to 1/2": 200 bar 3/4" and 1": 150 bar 1¼" 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

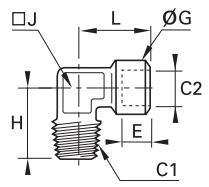
Brass



C		E	G	J	L	kg
G1/8	0143 10 10	7.5	16.5	12	22.5	0.044
G1/4	0143 13 13	11	18.5	15	26.5	0.055
G3/8	0143 17 17	11.5	23.5	19	31.5	0.100
G1/2	0143 21 21	15	28	23	34.5	0.150
G3/4	0143 27 27	16.5	34	27	43.5	0.242

0144 Equal Stud Elbow, Male BSPT/Female BSPP Thread

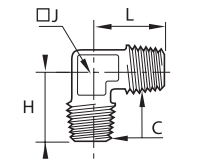
Brass



C1	C2		E	G	H	J	L	kg
R1/8	G1/8	0144 10 10	7.5	16.5	23	12	22.5	0.036
R1/4	G1/4	0144 13 13	11	18.5	26	15	26.5	0.054
R3/8	G3/8	0144 17 17	11.5	23.5	30	19	31.5	0.088
R1/2	G1/2	0144 21 21	15	28	35	23	34.5	0.140
R3/4	G3/4	0144 27 27	16.5	34	40	27	43.5	0.228

0152 Equal Elbow, Male BSPT Thread

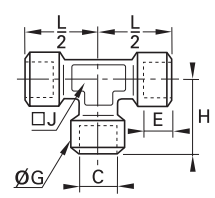
Brass



C		H	J	L	kg
R1/8	0152 10 10	19.5	10	19.5	0.017
R1/4	0152 13 13	25	15	25	0.045
R3/8	0152 17 17	26.5	15	26.5	0.055
R1/2	0152 21 21	31.5	19	31.5	0.088
R3/4	0152 27 27	35.5	23	35.5	0.153

0145 Equal Tee, Female BSPP Thread

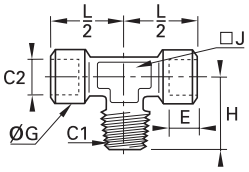
Brass



C		E	G	H	J	L/2	kg
G1/8	0145 10 10	7.5	16.5	22.5	12	22.5	0.056
G1/4	0145 13 13	11	18.5	26.5	15	26.5	0.083
G3/8	0145 17 17	11.5	23.5	31	19	31	0.131
G1/2	0145 21 21	15	28	38	23	38	0.242
G3/4	0145 27 27	16.5	34	47.5	27	47.5	0.378

0158 Stud Branch Tee, Male BSPT/Female BSPP Thread

Brass

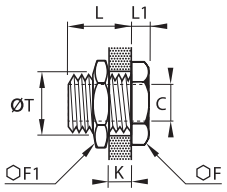


C1	C2		E	G	H	J	L/2	kg
R1/8	G1/8	0158 10 10	7.5	16.5	21.5	12	21.5	0.046
R1/4	G1/4	0158 13 13	11	18.5	26	15	26	0.074
R3/8	G3/8	0158 17 17	11.5	23.5	30	19	30	0.120
R1/2	G1/2	0158 21 21	15	28	36	23	36	0.205
R3/4	G3/4	0158 27 27	16.5	34	44	27	44	0.310

Brass Adaptors

0117 Equal Bulkhead Coupling, Female BSPP and Metric Thread

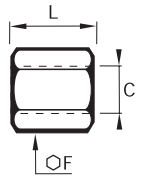
Brass



C		F	F1	K max	L	L1	ØT	kg
M5x0.8	0117 00 19	14	14	7	10.5	3.5	10.5	0.012
G1/8	0117 00 10	19	22	9	14	4	16.5	0.033
G1/4	0117 00 13	24	27	15	21	4	20.5	0.057
G3/8	0117 00 17	30	32	14	21	5	26.5	0.096
G1/2	0117 00 21	32	36	20	27	6	28.5	0.116
G3/4	0117 00 27	41	41	22.5	30	6	34.5	0.161
G1	0117 00 34	46	50	24.5	34	8	42.5	0.266
G1 1/4	0117 00 42	55	55	29.5	39	8	49.5	0.299
G1 1/2	0117 00 49	60	60	29.5	39	8	54.5	0.303

0155 Equal Connector, Female BSPP Thread

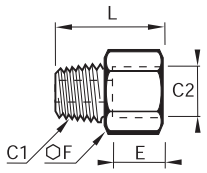
Brass



C		F	L	kg
G1/8	0155 10 10	14	17	0.014
G1/4	0155 13 13	17	24	0.026
G3/8	0155 17 17	22	25	0.046
G1/2	0155 21 21	27	32	0.084
G3/4	0155 27 27	32	35	0.109

0164 Adaptor, Male NPT/Female BSPP Thread

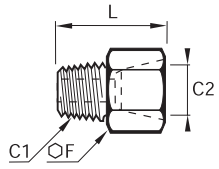
Brass



C1	C2		E	F	L	kg
NPT1/8	G1/8	0164 11 10	7.5	14	20	0.015
NPT1/4	G1/4	0164 14 13	11	17	27.5	0.028
NPT3/8	G3/8	0164 18 17	11.5	22	28.5	0.044
NPT1/2	G1/2	0164 22 21	15	27	36.5	0.082
NPT3/4	G3/4	0164 28 27	16.5	32	38.5	0.110

0167 Adaptor, Male BSPT/Female NPT Thread

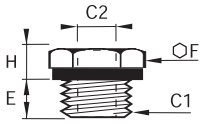
Brass



C1	C2		F	L	kg
R1/8	NPT1/8	0167 10 11	14	21	0.016
R1/4	NPT1/4	0167 13 14	17	28.5	0.029
R3/8	NPT3/8	0167 17 18	22	29.5	0.047
R1/2	NPT1/2	0167 21 22	27	37.5	0.088
R3/4	NPT3/4	0167 27 28	32	39.5	0.120

0168 Reducer, Male BSPP/Female BSPP and Metric Thread

Brass, technical polymer



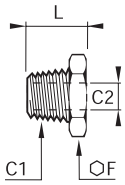
C1	C2		E	F	H	kg
G1/8	M5x0.8	0168 10 19	7	14	6	0.009
G1/4	M5x0.8	0168 13 19	7	17	7	0.017
	G1/8	0168 13 10	7	17	7	0.011
G3/8	G1/8	0168 17 10	9	19	6	0.019
	G1/4	0168 17 13	9	19	6	0.013
G1/2	G1/8	0168 21 10	11	24	10	0.050
	G1/4	0168 21 13	11	24	10	0.041
	G3/8	0168 21 17	11	24	10	0.029
G3/4	G1/4	0168 27 13	11	32	12	0.098
	G3/8	0168 27 17	11	32	12	0.083
	G1/2	0168 27 21	11	32	12	0.063

With fitted captive seal

Brass Adaptors

0163 Unequal Reducer, Male BSPT/Female BSPP Thread

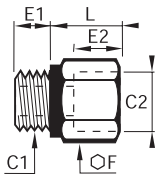
Brass



C1	C2		F	L	kg
R1/4	G1/8	0163 13 10	14	16	0.009
R3/8	G1/8	0163 17 10	17	16.5	0.020
	G1/4	0163 17 13	17	16.5	0.012
R1/2	G1/8	0163 21 10	22	21	0.048
	G1/4	0163 21 13	22	21	0.038
	G3/8	0163 21 17	22	21	0.024
R3/4	G1/4	0163 27 13	27	24	0.084
	G3/8	0163 27 17	27	24	0.069
	G1/2	0163 27 21	27	24	0.046

0169 Increaser, Male/Female BSPP Thread

Brass, technical polymer

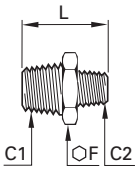


C1	C2		E1	E2	F	L	kg
G1/8	G1/4	0169 10 13	5	11	17	16	0.019
	G3/8	0169 10 17	5	14	22	19.5	0.039
G1/4	G3/8	0169 13 17	7	14	22	19.5	0.041
	G1/2	0169 13 21	7	14.5	27	20.5	0.062
G3/8	G1/2	0169 17 21	8	14.5	27	20.5	0.062
	G3/4	0169 17 27	8	15.5	32	22	0.082
G1/2	G3/4	0169 21 27	9.5	15.5	32	22.5	0.087

With fitted captive seal

0121 Straight Male Adaptor, Male BSPT Thread

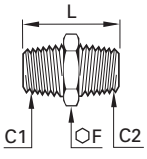
Brass



C1	C2		F	L	kg
R1/8	R1/8	0121 10 10	11	19	0.009
R1/4	R1/8	0121 13 10	14	23.5	0.017
	R1/4	0121 13 13	14	27	0.020
R3/8	R1/8	0121 17 10	17	24	0.021
	R1/4	0121 17 13	17	27.5	0.025
	R3/8	0121 17 17	17	28	0.026
R1/2	R1/8	0121 21 10	22	28.5	0.042
	R1/4	0121 21 13	22	32	0.045
	R3/8	0121 21 17	22	32.5	0.045
	R1/2	0121 21 21	22	36	0.052
R3/4	R1/4	0121 27 13	27	35	0.078
	R3/8	0121 27 17	27	35.5	0.078
	R1/2	0121 27 21	27	39	0.085
	R3/4	0121 27 27	27	40	0.091
R1	R3/8	0121 34 17	36	38.5	0.127
	R1/2	0121 34 21	36	42	0.134
	R3/4	0121 34 27	36	43	0.143
	R1	0121 34 34	36	46	0.154
R1 1/4	R1/2	0121 42 21	46	46.5	0.220
	R3/4	0121 42 27	46	47.5	0.224
	R1	0121 42 34	46	50.5	0.239
	R1 1/4	0121 42 42	46	53	0.230

0121 Equal Adaptor, Male NPT/BSPT Thread

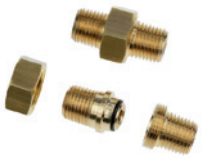
Brass



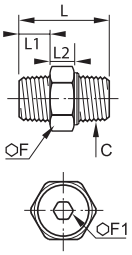
C1	C2		F	L	kg
NPT1/8	R1/8	0121 11 10	11	19	0.009
NPT1/4	R1/4	0121 14 13	14	27	0.021
NPT3/8	R3/8	0121 18 17	17	28	0.026
NPT1/2	R1/2	0121 22 21	22	36	0.052
NPT3/4	R3/4	0121 28 27	27	40	0.090

Brass Adaptors

0929 Equal 3-Piece Adaptor, Male BSPT Thread



Brass, NBR

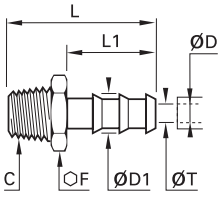


C		F	F1	L	L1	L2	kg
R1/8	0929 01 10	15	5	27	9	8.5	0.017
R1/4	0929 01 13	19	6	33.5	11.5	9.5	0.035
R3/8	0929 01 17	22	8	36.5	13	10	0.054
R1/2	0929 01 21	27	12	45	15.5	12	0.088

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

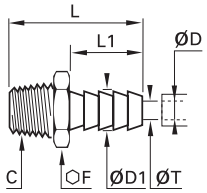
Brass



ØD	ØD1	C		F	L	L1	ØT	kg
4	6	R1/8	0123 04 10	10	34	22.5	3.3	0.008
6	8	R1/8	0123 06 10	10	34	22.5	5	0.009
7	9	R1/8	0123 07 10	10	34	22.5	5	0.009
	9	R1/4	0123 07 13	14	38.5	22.5	6	0.018
	9	R3/8	0123 07 17	17	39	22.5	6	0.023
10	12.2	R1/8	0123 10 10	13	34	22.5	5	0.014
	12.2	R1/4	0123 10 13	14	38.5	22.5	7	0.020
	12.2	R3/8	0123 10 17	17	39	22.5	9.5	0.023
12	14	R3/8	0123 12 17	17	46	29.5	11	0.026
13	15	R1/4	0123 13 13	17	45.5	29.5	7	0.026
	15	R3/8	0123 13 17	17	46	29.5	11	0.027
	15	R1/2	0123 13 21	22	50.5	29.5	12	0.045
16	18.5	R3/8	0123 16 17	19	54.5	38	11	0.040
	18.5	R1/2	0123 16 21	22	59	38	14	0.054
	18.5	R3/4	0123 16 27	27	62	38	15	0.084
19	21.5	R3/8	0123 19 17	22	54.5	38	11	0.046
	21.5	R1/2	0123 19 21	22	59	38	14	0.056
	21.5	R3/4	0123 19 27	27	62	38	18	0.082
25	26.7	R3/4	0123 25 27	27	62	38	18	0.079
	27	R1	0123 25 34	36	65	38	24	0.124
32	34.5	R1	0123 32 34	36	70	43	24	0.141

0136 Tailpiece Adaptor for Flexible Tubing, Male BSPT Thread

Brass

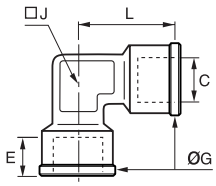


ØD	ØD1	C		F	L	L1	ØT	kg
4	4.3	R1/8	0136 06 10	10	26.5	15	2	0.007
	4.3	R1/4	0136 06 13	14	31	15	2	0.015
	4.3	R3/8	0136 06 17	17	31.5	15	2	0.020
6	6.4	R1/8	0136 08 10	10	26.5	15	4	0.007
	6.4	R1/4	0136 08 13	14	31	15	4	0.015
	6.4	R3/8	0136 08 17	17	31.5	15	4	0.020
8	8.4	R1/4	0136 10 13	14	31	15	6	0.016
	8.4	R3/8	0136 10 17	17	31.5	15	6	0.020
	8.4	R1/2	0136 10 21	22	36	15	6	0.039
10	10.7	R1/4	0136 12 13	14	36	20	7	0.018
	10.7	R3/8	0136 12 17	17	36.5	20	8	0.023
	10.7	R1/2	0136 12 21	22	41	20	8	0.041
12	12.7	R1/4	0136 14 13	14	36	20	7	0.019
	12.7	R3/8	0136 14 17	17	36.5	20	10	0.023
	12.7	R1/2	0136 14 21	22	41	20	10	0.040
	12.7	R3/4	0136 14 27	27	44	20	10	0.071
13	13.7	R3/8	0136 16 17	17	36.5	20	11	0.023
	13.7	R1/2	0136 16 21	22	41	20	11	0.041
	13.7	R3/4	0136 16 27	27	44	20	11	0.070

Nickel-Plated Brass Adaptors

0912 Equal Stud Elbow, Female BSPP and Metric Thread

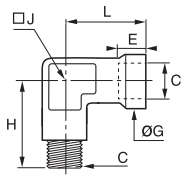
Nickel-plated brass



C		E	G	J	L	kg
M5x0.8	0912 00 19	4	8	9	11	0.006
G1/8	0912 00 10	8	13	10	18.5	0.015
G1/4	0912 00 13	11	17	12	22.5	0.028
G3/8	0912 00 17	11.5	21	15	25.5	0.043
G1/2	0912 00 21	14	26	19	30	0.073
G3/4	0912 00 27	16.5	32	22	35.5	0.143
G1	0912 00 34	18	38.5	28	40.5	0.166

0921 Equal Stud Elbow, Male/Female and Metric Thread

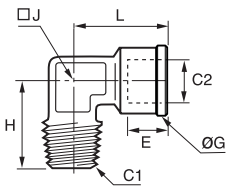
Nickel-plated brass



C1	C2		E	G	H	J	L	kg
M5x0.8	M5x0.8	0921 00 19	4	8	11	9	11	0.006

0913 Equal Stud Elbow, Male BSPT/ Female BSPP Thread

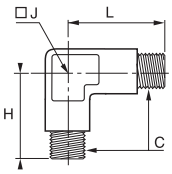
Nickel-plated brass



C1	C2		E	G	H	J	L	kg
R1/8	G1/8	0913 00 10	8	13	17	10	18.5	0.012
R1/4	G1/4	0913 00 13	11	17	22.5	12	22.5	0.026
R3/8	G3/8	0913 00 17	11.5	21	25.5	15	25.5	0.038
R1/2	G1/2	0913 00 21	14	26	30	19	30	0.064
R3/4	G3/4	0913 00 27	16.5	32	34.5	22	35.5	0.098
R1	G1	0913 00 34	18	38.5	40.5	28	40.5	0.000

0922 Equal Stud Elbow, Male Metric Thread

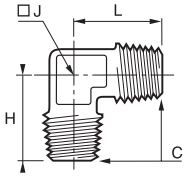
Nickel-plated brass



C		H	J	L	kg
M5x0.8	0922 00 19	11	9	11	0.010

0914 Equal Stud Elbow, Male BSPT Thread

Nickel-plated brass

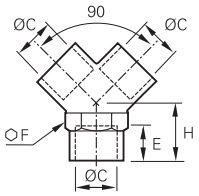


C		H	J	L	kg
R1/8	0914 00 10	17	10	17	0.012
R1/4	0914 00 13	22.5	12	22.5	0.027
R3/8	0914 00 17	25.5	15	25.5	0.035
R1/2	0914 00 21	30	19	30	0.056
R3/4	0914 00 27	34.5	22	34.5	0.104
R1	0914 00 34	40.5	28	40.5	0.156

Nickel-Plated Brass Adaptors

0910 Equal Y, Female BSPP Thread

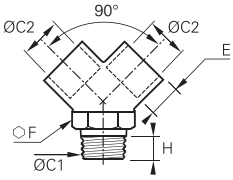
Nickel-plated brass



C		E	F	H	kg
G1/8	0910 00 10	8	13	12	0.018
G1/4	0910 00 13	11	17	14	0.033
G3/8	0910 00 17	11.5	20	16	0.045
G1/2	0910 00 21	14	25	19	0.083

0911 Equal Y, Male BSPT/Female BSPP Thread

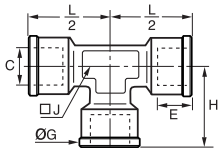
Nickel-plated brass



C1	C2		E	F	H	kg
R1/8	G1/8	0911 00 10	8	13	12	0.022
R1/4	G1/4	0911 00 13	11	17	14	0.038
R3/8	G3/8	0911 00 17	11.5	20	16	0.050
R1/2	G1/2	0911 00 21	14	25	19	0.103

0915 Equal Tee, Female BSPP and Metric Thread

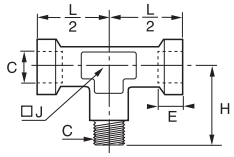
Nickel-plated brass



C		E	G	H	J	L/2	kg
M5x0.8	0915 00 19	4	8	11	9	11	0.010
G1/8	0915 00 10	8	13	18.5	10	18.5	0.021
G1/4	0915 00 13	11	17	22.5	12	22.5	0.042
G3/8	0915 00 17	11.5	21	25.5	15	25.5	0.062
G1/2	0915 00 21	14	26	30	19	30	0.099
G3/4	0915 00 27	16.5	32	35.5	22	35.5	0.143
G1	0915 00 34	18	38.5	40	28	40	0.244

0923 Equal Stud Branch Tee, Female/Male Metric Thread

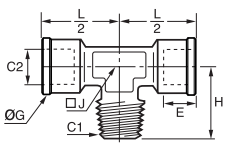
Nickel-plated brass



C1	C2		E	G	H	J	L/2	kg
M5x0.8	M5x0.8	0923 00 19	4	8	11	9	11	0.009

0916 Equal Stud Branch Tee, Male BSPT/Female BSPP Thread

Nickel-plated brass

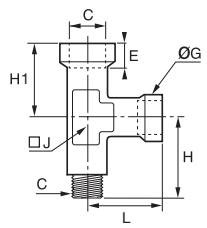


C1	C2		E	G	H	J	L/2	kg
R1/8	G1/8	0916 00 10	8	13	17	10	18.5	0.019
R1/4	G1/4	0916 00 13	11	17	23.5	13	22.5	0.038
R3/8	G3/8	0916 00 17	11.5	21	25.5	15	25.5	0.076
R1/2	G1/2	0916 00 21	14	26	30	19	30	0.091
R3/4	G3/4	0916 00 27	16.5	32	34.5	22	35.5	0.140
R1	G1	0916 00 34	18	38.5	40.5	28	40.5	0.237

Nickel-Plated Brass Adaptors

0924 Equal Stud Run Tee, Female/Male Metric Thread

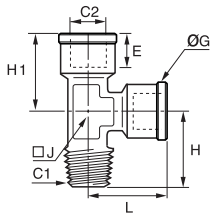
Nickel-plated brass



C1	C2		E	G	H	H1	J	L	kg
M5x0.8	M5x0.8	0924 00 19	4	8	11	11	9	11	0.009

0917 Equal Stud Run Tee, Male BSPT/Female BSPP Thread

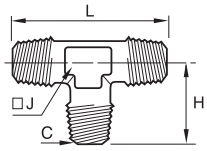
Nickel-plated brass



C1	C2		E	G	H	H1	J	L	kg
R1/8	G1/8	0917 00 10	8	13	17	18.5	10	18.5	0.025
R1/4	G1/4	0917 00 13	11	17	22.5	22.5	12	22.5	0.038
R3/8	G3/8	0917 00 17	11.5	21	25.5	25.5	15	25.5	0.058
R1/2	G1/2	0917 00 21	14	26	30	30	19	30	0.090
R3/4	G3/4	0917 00 27	16.5	32	34.5	35.5	22	35.5	0.177
R1	G1	0917 00 34	18	38.5	40.5	40.5	28	40.5	0.219

0927 Equal Tee, Male BSPT Thread

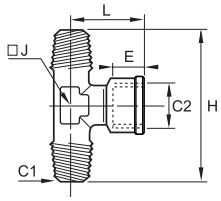
Nickel-plated brass



C		H	J	L	kg
R1/8	0927 00 10	17	10	34	0.018
R1/4	0927 00 13	22.5	12	45	0.032
R3/8	0927 00 17	25.5	15	51	0.056
R1/2	0927 00 21	30	19	60	0.094
R3/4	0927 00 27	34.5	22	69	0.133
R1	0927 00 34	40.5	28	81	0.217

0928 Equal Stud Branch Tee, Male BSPT/Female BSPP Thread

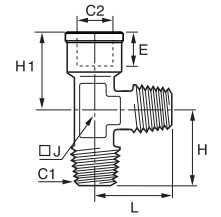
Nickel-plated brass



C1	C2		E	H	J	L	kg
R1/8	G1/8	0928 00 10	8	34	10	18.5	0.016
R1/4	G1/4	0928 00 13	11	45	12	22.5	0.044
R3/8	G3/8	0928 00 17	11.5	51	15	25.5	0.053
R1/2	G1/2	0928 00 21	14	60	19	30	0.111
R3/4	G3/4	0928 00 27	16.5	69	22	35.5	0.236
R1	G1	0928 00 34	18	81	28	40.5	0.225

0932 Equal Stud Run Tee, Male BSPT/Female BSPP Thread

Nickel-plated brass

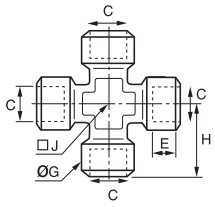


C1	C2		E	H	H1	J	L	kg
R1/8	G1/8	0932 00 10	8	17	18.5	10	17	0.016
R1/4	G1/4	0932 00 13	11	22.5	22.5	12	22.5	0.035
R3/8	G3/8	0932 00 17	11.5	25.5	25.5	15	25.5	0.055
R1/2	G1/2	0932 00 21	14	30	30	19	30	0.091
R3/4	G3/4	0932 00 27	16.5	34.5	35.5	22	34.5	0.080
R1	G1	0932 00 34	18	40.5	40.5	28	40.5	0.226

Nickel-Plated Brass Adaptors

0908 Equal Cross, Female BSPP Thread

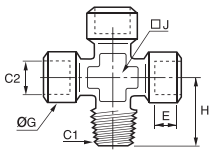
Nickel-plated brass



C		E	G	H	J	kg
G1/8	0908 00 10	8	13	21	10	0.038
G1/4	0908 00 13	11	17	25.5	13	0.073
G3/8	0908 00 17	11.5	21	28	17	0.107
G1/2	0908 00 21	14	26	33.5	21	0.189

0909 Equal Cross, Male BSPT/Female BSPP Thread

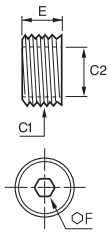
Nickel-plated brass



C1	C2		E	G	H	J	kg
R1/8	G1/8	0909 00 10	8	13	18.5	10	0.034
R1/4	G1/4	0909 00 13	11	17	23.5	13	0.068
R3/8	G3/8	0909 00 17	11.5	21	26	17	0.099
R1/2	G1/2	0909 00 21	14	26	31	21	0.168

0903 Reducer, Male/Female BSPP Thread

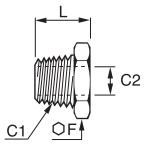
Nickel-plated brass



C1	C2		E	F	kg
G1/4	G1/8	0903 10 13	8	6	0.004
G3/8	G1/4	0903 13 17	9	8	0.006
G1/2	G3/8	0903 17 21	10	10	0.010
G3/4	G1/2	0903 21 27	14	12	0.022
G1	G3/4	0903 27 34	20	17	0.036

0904 Reducer, Male BSPT/Female BSPP Thread

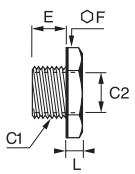
Nickel-plated brass



C1	C2		F	L	kg
R1/4	G1/8	0904 10 13	14	16	0.010
R3/8	G1/8	0904 10 17	17	16.5	0.020
	G1/4	0904 13 17	17	16.5	0.015
R1/2	G1/4	0904 13 21	22	19.5	0.032
	G3/8	0904 17 21	22	19.5	0.025
R3/4	G3/8	0904 17 27	27	23.5	0.057
	G1/2	0904 21 27	27	23.5	0.044

0905 Reducer, Male BSPP/Female BSPP and Metric Thread

Nickel-plated brass



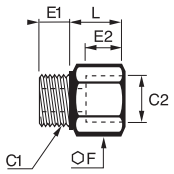
C1	C2		E	F	L	kg
G1/8	M5x0.8	0905 19 10*	6	14	4.5	0.008
G1/4	G1/8	0905 10 13*	8	17	5	0.011
G3/8	G1/8	0905 10 17*	9	19	5	0.019
	G1/4	0905 13 17	9	19	5	0.013
G1/2	G1/4	0905 13 21	10	24	5.5	0.032
	G3/8	0905 17 21	10	24	5.5	0.022
G3/4	G3/8	0905 17 27	12	30	5.5	0.053
	G1/2	0905 21 27*	12	30	5.5	0.041

*Please contact us for detailed drawings of threads.

Nickel-Plated Brass Adaptors

0906 Increaser, Male BSPP and Metric/Female BSPP Thread

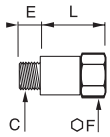
Nickel-plated brass



C1	C2		E1	E2	F	L	kg
M5x0.8	G1/8	0906 10 19	4	8	14	10	0.009
G1/8	G1/8	0906 00 10	6	8	14	10	0.011
	G1/4	0906 10 13	6	11	17	14	0.016
	G3/8	0906 10 17	6	11.5	22	14.5	0.029
G1/4	G1/4	0906 00 13	8	11	17	14	0.020
	G3/8	0906 13 17	8	11.5	22	14.5	0.032
	G1/2	0906 13 21	8	15	27	18	0.037
G3/8	G3/8	0906 00 17	9	11.5	22	14.5	0.034
	G1/2	0906 17 21	9	14	27	18	0.038
G1/2	G1/2	0906 00 21	10	14	27	18	0.054

0907 Equal Extended Adaptor, Male/Female BSPP Thread

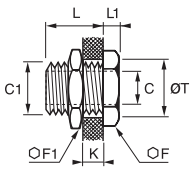
Nickel-plated brass



C		E	F	L	kg
G1/8	0907 00 10	6	14	16	0.015
	0907 00 10 01	6	14	36	0.029
G1/4	0907 00 13	8	17	26	0.032
	0907 00 13 01	8	17	43	0.046

0920 Bulkhead Connector, Female BSPP and Metric Thread

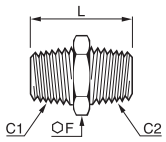
Nickel-plated brass



C	C1		F	F1	K max	L	L1	ØT	kg
M5x0.8	M10x1	0920 00 19	14	14	7	10.5	3.5	10.5	0.012
G1/8	M16x1.5	0920 00 10	19	22	9	14	4	16.5	0.029
G1/4	M20x1.5	0920 00 13	24	27	15	21	4	20.5	0.056
G3/8	M26x1.5	0920 00 17	30	32	14	21	5	26.5	0.095
G1/2	M28x1.5	0920 00 21	32	36	20	27	6	28.5	0.115

0900 Equal and Unequal Adaptor, Male BSPT Thread

Nickel-plated brass

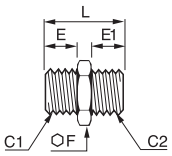


C1	C2		F	L	kg
R1/8	R1/8	0900 00 10	12	19.5	0.008
	R1/4	0900 10 13	14	23.5	0.015
	R3/8	0900 10 17	17	24	0.020
R1/4	R1/4	0900 00 13	14	27	0.017
	R3/8	0900 13 17	17	27.5	0.026
	R1/2	0900 13 21	22	30.5	0.044
R3/8	R3/8	0900 00 17	17	28	0.026
	R1/2	0900 17 21	22	31	0.046
R1/2	R1/2	0900 00 21	22	33.5	0.044
	R3/4	0900 21 27	27	37.5	0.084
R3/4	R3/4	0900 00 27	27	40	0.079
	R1	0900 27 34	34	43	0.144
R1	R1	0900 00 34	34	45.5	0.153

Nickel-Plated Brass Adaptors

0901 Equal and Unequal Adaptor, Male BSPP and Metric Thread

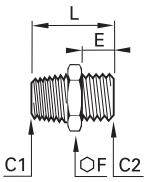
Nickel-plated brass



C1	C2		E	E1	F	L	kg
M5x0.8	M5x0.8	0901 00 19	4	4	8	11.5	0.002
	G1/8	0901 19 10	4	6	14	14.5	0.008
G1/8	G1/8	0901 00 10	6	6	14	16.5	0.009
	G1/4	0901 10 13	6	8	17	19	0.016
G1/4	G1/4	0901 00 13	8	8	17	21	0.019
	G3/8	0901 13 17	8	9	19	22	0.023
G3/8	G3/8	0901 00 17	9	9	19	23	0.025
	G1/2	0901 17 21	9	10	24	24.5	0.038
G1/2	G1/2	0901 00 21	10	10	24	25.5	0.041

0192 Unequal Straight Adaptor, Male BSPT/BSPP Thread

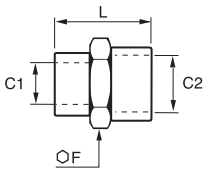
Nickel-plated brass



C1	C2		E	F	L	kg
R1/8	G1/4	0192 10 13	9.5	17	23.5	0.019
R1/4	G1/4	0192 13 13	9.5	17	27.5	0.024
	G1/2	0192 13 21	11	27	31.5	0.068
R3/8	G1/4	0192 17 13	9.5	17	28	0.025
	G1/2	0192 17 21	11	27	31.5	0.061
R1/2	G1/2	0192 21 21	11	27	34	0.061

0902 Equal and Unequal Adaptor, Female BSPP and Metric Thread

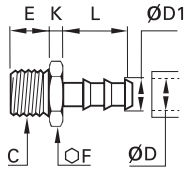
Nickel-plated brass



C1	C2		F	L	kg
M5x0.8	M5x0.8	0902 00 19	8	11	0.003
	G1/8	0902 19 10	14	13	0.009
G1/8	G1/8	0902 00 10	14	15	0.010
	G1/4	0902 10 13	17	19.5	0.017
	G3/8	0902 10 17	22	20	0.028
G1/4	G1/4	0902 00 13	17	22	0.019
	G3/8	0902 13 17	22	23	0.031
	G1/2	0902 13 21	27	27	0.033
G3/8	G3/8	0902 00 17	22	24	0.034
	G1/2	0902 17 21	27	27.5	0.037
G1/2	G1/2	0902 00 21	27	30	0.050
	G3/4	0902 21 27	30	30	0.077
G3/4	G3/4	0902 00 27	30	32	0.080

0191 Tailpiece Adaptor for Rubber Hose, Male BSPP Thread

Nickel-plated brass

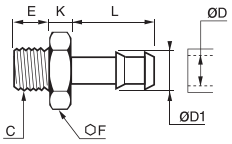


ØD	ØD1	C		E	F	K	L	kg
4	6	G1/4	0191 04 13	9.5	17	5	22.5	0.019
7	9	G1/4	0191 07 13	9.5	17	5	22.5	0.022
	9	G1/2	0191 07 21	11	27	7	29.5	0.065
10	12.2	G1/4	0191 10 13	9.5	17	5	22.5	0.020
	12.2	G1/2	0191 10 21	11	27	7	29.5	0.061
13	15.2	G1/4	0191 13 13	9.5	17	5	22.5	0.022
	15.2	G1/2	0191 13 21	11	27	7	29.5	0.058
16	18.5	G1/2	0191 16 21	11	27	7	36.5	0.067

Nickel-Plated Brass Adaptors

0931 Tailpiece Adaptor for Rubber Hose, Male BSPP Thread

Nickel-plated brass

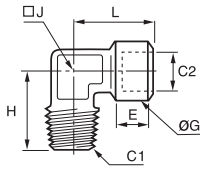


ØD	ØD1	C		E	F	K	L	kg
6	7	G1/8	0931 06 10	6	12	4	20	0.009
	7	G1/4	0931 06 13	8	14	5	20	0.013
7	8	G1/8	0931 07 10	6	12	4	20	0.009
	8	G1/4	0931 07 13	8	14	5	20	0.013
	8	G3/8	0931 07 17	9	19	5	20	0.022
8	9	G1/8	0931 08 10	6	12	4	20	0.009
	9	G1/4	0931 08 13	8	14	5	20	0.014
	9	G3/8	0931 08 17	9	19	5	20	0.022
10	12	G1/4	0931 10 13	8	14	5	20	0.016
	12	G3/8	0931 10 17	9	19	5	20	0.024
	12	G1/2	0931 10 21	10	22	6	22	0.031
15	17	G3/8	0931 15 17	9	19	6	24	0.030
	17	G1/2	0931 15 21	10	22	6	24	0.037
18	20	G1/2	0931 18 21	10	22	6	24	0.039

Stainless Steel Adaptors

1844 Equal Stud Elbow, Male BSPT/Female BSPP Thread

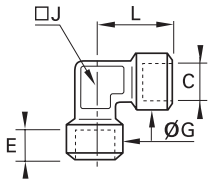
Stainless steel 316L



C1	C2		E	G	H	J	L	kg
R1/8	G1/8	1844 10 10	7.5	15	20.5	10	22.5	0.022
R1/4	G1/4	1844 13 13	12	18.5	27.5	12	26.5	0.044
R3/8	G3/8	1844 17 17	12	23.5	28	14	30	0.067
R1/2	G1/2	1844 21 21	15	28	38	18	38	0.114
R3/4	G3/4	1844 27 27	16.5	33	41	22	44.5	0.154
R1	G1	1844 34 34	19	40	48	32	50	0.312

1843 Equal Elbow, Female BSPP Thread

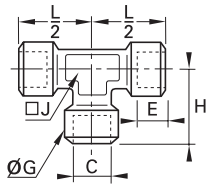
Stainless steel 316L



C		E	G	J	L	kg
G1/8	1843 10 10	7.5	17.5	12	22.5	0.041
G1/4	1843 13 13	11	18.5	15	26.5	0.055
G3/8	1843 17 17	11.5	23.5	18	29	0.076
G1/2	1843 21 21	15	28	23	38	0.159
G3/4	1843 27 27	16.5	33	22	43.5	0.232
G1	1843 34 34	19	40	32	52	0.444

1845 Equal Tee, Female BSPP Thread

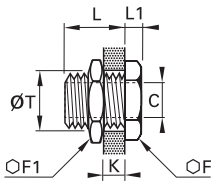
Stainless steel 316L



C		E	G	H	J	L/2	kg
G1/8	1845 10 10	7.5	17.5	22.5	12	22.5	0.060
G1/4	1845 13 13	11	18.5	26.5	15	26.5	0.078
G3/8	1845 17 17	11.5	23.5	29	18	29	0.100
G1/2	1845 21 21	15	28	38	23	38	0.221
G3/4	1845 27 27	16.5	33	43.5	22	43.5	0.301
G1	1845 34 34	19	40	50	32	50	0.457

1817 Equal Bulkhead Adaptor, Female BSPP Thread

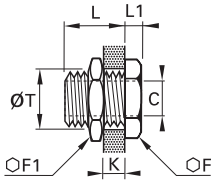
Stainless steel 316L



C		F	F1	K max	L	L1	ØT min	kg
G1/8	1817 00 10	19	22	9	14	4	16.5	0.030
G1/4	1817 00 13	24	27	15	21	4	20.5	0.053
G3/8	1817 00 17	30	32	14	21	5	26.5	0.091
G1/2	1817 00 21	32	36	20	27	6	28.5	0.109
G3/4	1817 00 27	41	41	22.5	30	6	34.5	0.152
G1	1817 00 34	46	50	24.5	34	8	42.5	0.252

1871 Equal Bulkhead Adaptor, Female NPT Thread

Stainless steel 316L

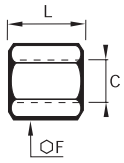


C		F	F1	K max	L	L1	ØT min	kg
NPT1/8	1871 00 11	19	22	9	14	5	16.5	0.032
NPT1/4	1871 00 14	24	22	9	14	5	16.5	0.060
NPT3/8	1871 00 18	30	32	18	23	5	26.5	0.096
NPT1/2	1871 00 22	32	36	22	29	6	28.5	0.120

Stainless Steel Adaptors

1855 Equal Connector, Female BSPP Thread

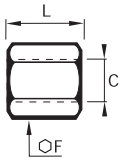
Stainless steel 316L



C		F	L	kg
G1/8	1855 10 10	14	17	0.013
G1/4	1855 13 13	17	24	0.024
G3/8	1855 17 17	22	25	0.042
G1/2	1855 21 21	27	32	0.078
G3/4	1855 27 27	14	35	0.102
G1	1855 34 34	41	40	0.202

1870 Equal Connector, Female NPT Thread

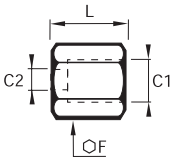
Stainless steel 316L



C		F	L	kg
NPT1/8	1870 11 11	14	19	0.015
NPT1/4	1870 14 14	17	28	0.029
NPT3/8	1870 18 18	22	28	0.050
NPT1/2	1870 22 22	27	35	0.093

1862 Reducer Connector, Female BSPP Thread

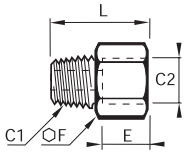
Stainless steel 316L



C1	C2		F	L	kg
G1/4	G1/8	1862 13 10	17	20.5	0.024
G3/8	G1/8	1862 17 10	22	21	0.043
	G1/4	1862 17 13	22	24.5	0.049
G1/2	G1/4	1862 21 13	27	28.5	0.086
	G3/8	1862 21 17	27	29	0.080
G3/4	G1/2	1862 27 21	32	39.5	0.144
G1	G3/4	1862 34 27	41	45	0.280

1864 Adaptor, Male NPT/Female BSPP Thread

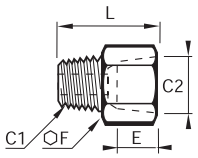
Stainless steel 316L



C1	C2		E	F	L	kg
NPT1/8	G1/8	1864 11 10	7.5	14	21.5	0.015
NPT1/4	G1/4	1864 14 13	11	17	30	0.028
NPT3/8	G3/8	1864 18 17	11.5	22	31	0.043
NPT1/2	G1/2	1864 22 21	15	27	39.5	0.080

1867 Adaptor, Male BSPT/Female NPT Thread

Stainless steel 316L

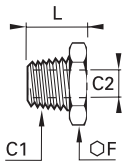


C1	C2		E	F	L	kg
R1/8	NPT1/8	1867 10 11	8	14	21	0.015
R1/4	NPT1/4	1867 13 14	11.5	17	28.5	0.028
R3/8	NPT3/8	1867 17 18	12	22	29.5	0.044
R1/2	NPT1/2	1867 21 22	15.5	27	37.5	0.083

Stainless Steel Adaptors

1863 Reducer, Male BSPT/Female BSPP Thread

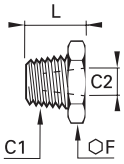
Stainless steel 316L



C1	C2		F	L	kg
R1/4	G1/8	1863 13 10	14	16	0.008
R3/8	G1/8	1863 17 10	17	16.5	0.019
	G1/4	1863 17 13	17	16.5	0.011
R1/2	G1/4	1863 21 13	22	21	0.036
	G3/8	1863 21 17	22	21	0.023
R3/4	G1/2	1863 27 21	27	25.5	0.045
R1	G3/4	1863 34 27	36	28.5	0.083

1872 Reducer, Male/Female NPT Thread

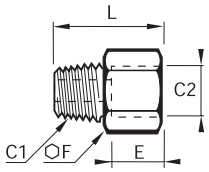
Stainless steel 316L



C1	C2		F	L	kg
NPT1/4	NPT1/8	1872 14 11	14	16	0.010
NPT3/8	NPT1/8	1872 18 11	19	16.5	0.023
	NPT1/4	1872 18 14	19	16.5	0.016
NPT1/2	NPT1/4	1872 22 14	22	21	0.039
	NPT3/8	1872 22 18	22	21	0.028

1861 Increaser, Male BSPT/Female BSPP Thread

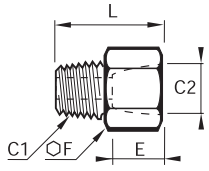
Stainless steel 316L



C1	C2		E	F	L	kg
R1/8	G1/4	1861 10 13	11	17	24	0.022
	G3/8	1861 10 17	11.5	22	25	0.038
R1/4	G3/8	1861 13 17	11.5	22	28.5	0.042
	G1/2	1861 13 21	15	27	32.5	0.068
R3/8	G1/2	1861 17 21	15	27	33	0.070
R1/2	G3/4	1861 21 27	16.5	32	38	0.093
R3/4	G1	1861 27 34	19	41	43.5	0.182

1873 Increaser, Male/Female NPT Thread

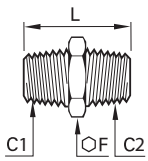
Stainless steel 316L



C1	C2		E	F	L	kg
NPT1/8	NPT1/4	1873 11 14	14	17	25	0.024
	NPT3/8	1873 11 18	14	22	25	0.039
NPT1/4	NPT3/8	1873 14 18	14	22	28.5	0.042
	NPT1/2	1873 14 22	17.5	27	31	0.065
NPT3/8	NPT1/2	1873 18 22	17.5	27	31.5	0.066

1821 Equal and Unequal Adaptor, Male BSPT Thread

Stainless steel 316L

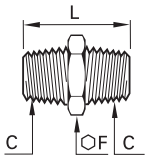


C1	C2		F	L	kg
R1/8	R1/8	1821 10 10	12	19	0.009
R1/4	R1/8	1821 13 10	14	23.5	0.016
	R1/4	1821 13 13	14	27	0.019
R3/8	R1/4	1821 17 13	17	27.5	0.024
	R3/8	1821 17 17	17	28	0.024
R1/2	R3/8	1821 21 17	22	32.5	0.042
	R1/2	1821 21 21	22	36	0.048
R3/4	R1/2	1821 27 21	27	41	0.079
	R3/4	1821 27 27	27	42	0.088
R1	R3/4	1821 34 27	36	46	0.141
	R1	1821 34 34	36	48	0.146

Stainless Steel Adaptors

1821 Equal Adaptor, Male NPT Thread

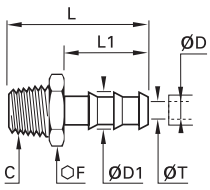
Stainless steel 316L



C		F	L	kg
NPT1/8	1821 11 11	12	23	0.011
NPT1/4	1821 14 14	14	32	0.023
NPT3/8	1821 18 18	19	33	0.031
NPT1/2	1821 22 22	22	42	0.057
NPT3/4	1821 28 28	27	40	0.082
NPT1	1821 35 35	36	46	0.138

1823 Tailpipe Adaptor for Rubber Hose, Male BSPT Thread

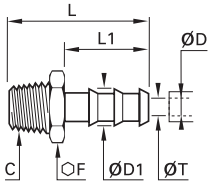
Stainless steel 316L



ØD	ØD1	C		F	L	L1	ØT	kg
7	9	R1/8	1823 07 10	10	34	22.5	5	0.009
	9	R1/4	1823 07 13	14	38.5	22.5	6	0.016
10	12.2	R1/4	1823 10 13	14	38.5	22.5	7	0.018
	12.2	R3/8	1823 10 17	17	39	22.5	9.5	0.021
13	15	R3/8	1823 13 17	17	46	29.5	11	0.025
16	18.5	R1/2	1823 16 21	22	59	38	14	0.050

1823 Tailpipe Adaptor for Rubber Hose, Male NPT Thread

Stainless steel 316L

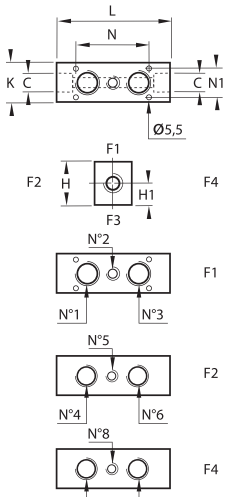


ØD	ØD1	C		F	L	L1	ØT	kg
1/4	8.3	NPT1/8	1823 56 11	12	34	22.5	5.3	0.010
	8.3	NPT1/4	1823 56 14	14	38.5	22.5	5.3	0.016
1/8	11.7	NPT1/4	1823 60 14	14	38.5	22.5	8.5	0.018
	11.7	NPT3/8	1823 60 18	19	39	22.5	8.5	0.026

Brass Manifolds

0135 Manifold Block, Female BSPP Thread

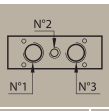
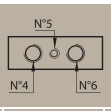
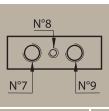
Brass



C		H	H1	K	L	N	N1	kg
G1/4	0135 06 13	30	13	25	70	37	17	0.329
	0135 09 13	30	13	25	87	54	17	0.409
G1/2	0135 06 21	40	16	35	86	45	27	0.714
	0135 09 21	40	16	35	109	68	27	0.899
G3/4	0135 10 27	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.

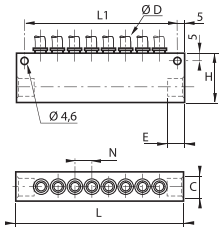
Installation Options

	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
0135 06 13	1		G1/4		2	G1/8		G1/8	2	G1/8		G1/8
0135 09 13	2	G1/4		G1/4	3	G1/8	G1/8	G1/8	3	G1/8	G1/8	G1/8
0135 06 21	1		G1/2		2	G1/4		G1/4	2	G1/8		G1/8
0135 09 21	2	G1/2		G1/2	3	G1/4	G1/4	G1/4	3	G1/8	G1/8	G1/8
0135 10 27	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

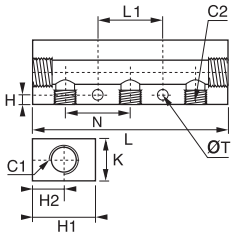
Treated aluminium, NBR



ØD	C		Number of Outlets	E	H	L	L1	N	kg
4	G1/4	3310 04 13	8	10	33	114	104	11.5	0.175
6	G1/4	3310 06 13	8	10	33	114	104	12.5	0.169
8	G3/8	3310 08 17	6	12	33	114	104	15	0.156
10	G1/2	3310 10 21	6	14	48	130	119.5	17	0.348
12	G1/2	3310 12 21	6	14	45	117	107	20.5	0.370

3311 Manifold, Female BSPP and Metric Thread

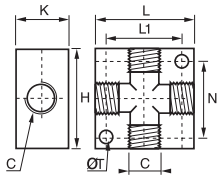
Treated aluminium



C1	C2		Number of Outlets	H	H1	H2	K	L	L1	N	ØT	kg
G1/8	M5x0.8	3311 19 10 07	7	3.5	20	8.5	15	95	80	11	4.4	0.067
G1/4	G1/8	3311 10 13 02	2	4.5	30	15	20	61	50	30	5	0.079
	G1/8	3311 10 13 03	3	4.5	30	15	20	91	30	30	5	0.121
	G1/8	3311 10 13 04	4	4.5	30	15	20	121	60	30	5	0.165
	G1/8	3311 10 13 05	5	4.5	30	15	20	151	90	30	5	0.209
	G1/8	3311 10 13 06	6	4.5	30	15	20	181	120	30	5	0.244
G3/8	G1/4	3311 13 17 02	2	5.5	30	11	20	74	61	36	6.5	0.076
	G1/4	3311 13 17 03	3	6	30	11	20	110	36	36	6.5	0.121
	G1/4	3311 13 17 04	4	6	30	11	20	146	72	36	6.5	0.144
	G1/4	3311 13 17 05	5	6	30	11	20	182	108	36	6.5	0.212
	G1/4	3311 13 17 06	6	6	30	11	20	218	144	36	6.5	0.265

3312 Cross Manifold, Female BSPP and Metric Thread

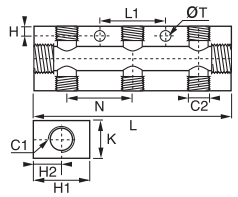
Treated aluminium



C		Number of Outlets	H	K	L	L1	N	ØT	kg
M5x0.8	3312 00 19		20	10	20	12	12	4.5	0.010
G1/8	3312 00 10		30	16	30	23	22	4.5	0.029
G1/4	3312 00 13		40	20	40	30	27	5.5	0.066
G3/8	3312 00 17		50	25	50	38	39	6.5	0.126
G1/2	3312 00 21		50	25	50	38	39	6.5	0.101

3313 Double Manifold, Female BSPP Thread

Treated aluminium

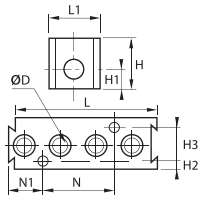


C1	C2		Number of Outlets	H	H1	H2	K	L	L1	N	ØT	kg
G1/4	G1/8	3313 10 13 02	2x2	4.5	30	15	20	61	50	30	5	0.075
	G1/8	3313 10 13 03	2x3	4.5	30	15	20	91	30	30	5	0.115
	G1/8	3313 10 13 04	2x4	4.5	30	15	20	121	60	30	5	0.151
	G1/8	3313 10 13 05	2x5	4.5	30	15	20	151	90	30	5	0.194
G3/8	G1/4	3313 13 17 02	2x2	6	40	20	20	74	61	36	6.5	0.109
	G1/4	3313 13 17 03	2x3	6	40	20	20	110	36	36	6.5	0.179
	G1/4	3313 13 17 04	2x4	6	40	20	20	146	72	36	6.5	0.238
	G1/4	3313 13 17 05	2x5	6	40	20	20	182	108	36	6.5	0.286
G1/2	G1/4	3313 13 21 03	2x3	6	40	20	28	116	36	36	6.5	0.222
	G1/4	3313 13 21 04	2x4	6	40	20	28	152	72	36	6.5	0.295
	G1/4	3313 13 21 05	2x5	6	40	20	28	188	108	36	6.5	0.369

Anodised Aluminium Manifolds

3301 Modular Manifold

Treated aluminium, NBR

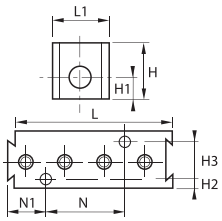


ØD		Number of Outlets	H	H1	H2	H3	L	L1	N	N1	kg
4	3301 04 00	8	25	10	4.5	16	73.5	25	35	17	0.105
6	3301 06 00	4	25	10	4.5	16	73.5	25	35	17	0.108

Fixing with screw M3x20

3301 Manifold, Female BSPP Thread

Treated aluminium, NBR

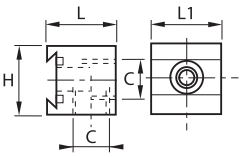


C		Number of Outlets	H	H1	H2	H3	L	L1	N	N1	kg
G1/8	3301 07 10	4	25	10	4.5	16	73.5	25	35	17	0.097

Fixing with screw M3x20
NPT available on request

3302 Single Manifold, Female BSPP Thread

Treated aluminium, NBR

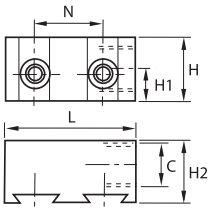


C		H	L	L1	kg
G1/4	3302 01 13	25	24.5	25	0.030
	3302 01 13 01	25	24.5	25	0.031

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

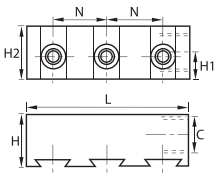


C		H	H1	H2	L	N	kg
G3/8	3302 02 17	25	12.5	24.5	51	26	0.061

Side entry thread
NPT available on request

3302 Triple Manifold, Female BSPP Thread

Treated aluminium, NBR



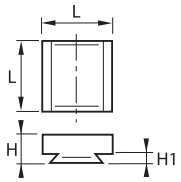
C		H	H1	H2	L	N	kg
G3/8	3302 03 17	25	12.5	25	77	26	0.087

Side entry thread
NPT available on request

Anodised Aluminium Manifolds

3303 End Plate for Manifold

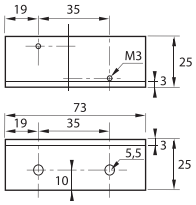
Treated aluminium



	H	H1	L	kg
3303 00 01	9.5	3.5	25	0.014

3303 Angled Fixing Plate

Treated aluminium

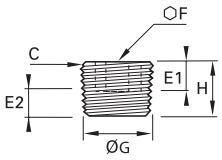


	kg
3303 00 02	0.027

Brass Plugs

0205 Internal Hexagon Head Plug, Male BSPT Thread

Brass

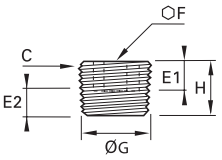


C		E1	E2 min	E2 max	F	G	H	kg
R1/8	0205 10 00	6	3.1	4.9	5	9.7	8	0.003
R1/4	0205 13 00	8	4.7	7.3	6	13.2	10	0.007
R3/8	0205 17 00	8	5.1	7.7	8	16.7	11	0.013
R1/2	0205 21 00	8	6.4	10	10	21	13	0.026
R3/4	0205 27 00	11	7.7	11.3	14	26.4	17	0.054
R1	0205 34 00	13	8.1	12.7	17	33.2	19	0.094
R1¼	0205 42 00	14	10.4	15	22	41.9	22	0.176
R1½	0205 49 00	14	10.4	15	24	47.8	22	0.246
R2	0205 48 00	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

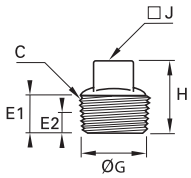
Brass



C		E1	E2 min	E2 max	F	G	H	kg
NPT1/8	0205 11 00	6	3.2	5	5	10.2	8	0.003
NPT1/4	0205 14 00	8	4.4	7.2	6	13.6	10	0.008
NPT3/8	0205 18 00	8	4.7	7.5	8	17	11	0.014
NPT1/2	0205 22 00	8	6.3	9.9	10	21.2	13	0.026
NPT3/4	0205 28 00	11	6.8	10.4	14	26.6	17	0.052
NPT1	0205 35 00	13	8	12.4	17	33.2	19	0.091

0209 Square Head Plug, Male BSPT Thread

Brass

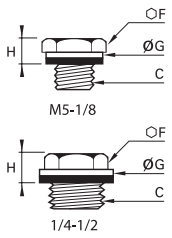


C		E1	E2 min	E2 max	G	H	J	kg
R1/8	0209 10 00	6	3.1	4.9	9.7	16	6	0.007
R1/4	0209 13 00	8	4.7	7.3	13.2	18	8	0.014
R3/8	0209 17 00	10	5.1	7.7	16.7	20	10	0.025
R1/2	0209 21 00	11	6.4	10	21	22	13	0.047
R3/4	0209 27 00	15	7.7	11.3	26.4	28	17	0.097
R1	0209 34 00	18	8.1	12.7	33.2	32	19	0.170

Conforms to DIN 906
Thread: EN 10226-1

0220 Hex Head Plug, Male BSPP and Metric Thread

Brass, technical polymer

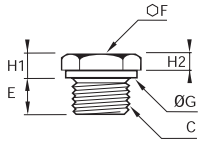


C		F	G	H1	kg
M5x0.8	0220 19 00	8	8	5	0.002
G1/8	0220 10 00	14	14	7.5	0.011
G1/4	0220 13 00	17	17	7.5	0.019
G3/8	0220 17 00	17	22	8.5	0.024
G1/2	0220 21 00	22	27	10	0.040

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

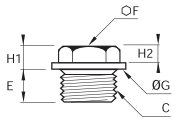


C		E	F	G	H1	H2	kg
M6x1	0200 52 00	6	10	10	4	3.5	0.004
M8x1.25	0200 57 00	7	13	13	4	3.5	0.007
M10x1	0200 60 00	8	14	14	5	4.5	0.011
M12x1	0200 65 00	9	17	17	5	4.5	0.018
M12x1.25	0200 66 00	9	17	17	5	4.5	0.017
G1/8	0200 10 00	7	14	13.7	5.5	4	0.011
G1/4	0200 13 00	8.5	17	16.7	5.5	4	0.019

Brass Plugs

0201 Hex Head Plug with Collar, Male BSPP and Metric Thread

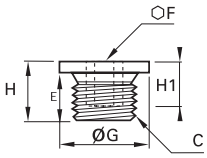
Brass



C		E	F	G	H1	H2	kg
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



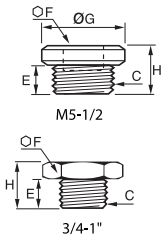
C		E	F	G	H	H1	kg
M12x1	0202 65 00	9	6	17	11	8	0.009
M12x1.25	0202 66 00	9	6	17	11	8	0.009
M14x1.5	0202 71 00	10	6	19	13	10	0.015
M16x1.5	0202 75 00	10	8	22	13	10	0.020
M18x1.5	0202 78 00	10	10	24	13	10	0.022
M20x1.5	0202 80 00	10	12	26	13	10	0.025
M22x1.5	0202 82 00	10	12	30	13	10	0.034
M27x2	0202 86 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

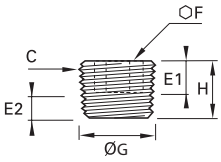


C		E	F	G	H	kg
M5x0.8	0919 00 19	4	2.5	8	7.5	0.001
G1/8	0919 00 10	6	3	15	10	0.007
G1/4	0919 00 13	8	6	18	12	0.013
G3/8	0919 00 17	9	8	21	13	0.021
G1/2	0919 00 21	10	10	25	14.5	0.036
G3/4	0919 00 27	11	30	-	17	0.050
G1	0919 00 34	13	38	-	19	0.076

Steel Plugs

0206 Internal Hexagon Head Plug, Male BSPT Thread

Steel

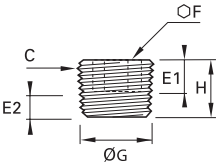


C		E1	E2 min	E2 max	F	G	H	kg
R1/8	0206 10 00	6	3.1	4.9	5	9.7	8	0.003
R1/4	0206 13 00	8	4.7	7.3	6	13.2	10	0.007
R3/8	0206 17 00	8	5.1	7.7	8	16.7	11	0.012
R1/2	0206 21 00	8	6.4	10	10	21	13	0.023
R3/4	0206 27 00	11	7.7	11.3	14	26.4	17	0.048
R1	0206 34 00	13	8.1	12.7	17	33.2	19	0.086
R1¼	0206 42 00	14	10.4	15	22	41.9	22	0.166
R1½	0206 49 00	14	10.4	15	24	47.8	22	0.222

For BSPT plugs, from 1/2" - 1½" inclusive
Conforms to DIN 906
Thread, conforms to EN 10226-1

0206 Internal Hexagon Head Plug, Male NPT Thread

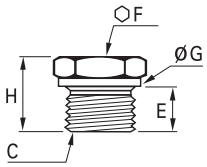
Steel



C		E1	E2 min	E2 max	F	G	H	kg
NPT1/16	0206 08 00	6	3.8	6.4	4	7.8	7	0.002
NPT1/8	0206 11 00	6	3.2	5	5	10.2	8	0.003
NPT1/4	0206 14 00	8	4.4	7.2	6	13.6	10	0.007
NPT3/8	0206 18 00	8	4.7	7.5	8	17	11	0.012
NPT1/2	0206 22 00	8	6.3	9.9	10	21.2	13	0.024
NPT3/4	0206 28 00	11	6.8	10.4	14	26.6	17	0.047
NPT1	0206 35 00	13	8	12.4	17	33.2	19	0.083

0210 Hex Head Plug, Male BSPP and Metric Thread

Steel

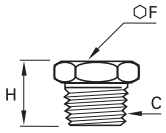


C		E	F	G	H	kg
M8x1.25	0210 57 00	8	14	12	15	0.010
M10x1	0210 60 00	8	14	14	15	0.013
M12x1.25	0210 66 00	11	17	17	18	0.021
G1/8	0210 10 00	8	14	14	15	0.012
M14x1.25	0210 70 00	11	19	19	20	0.032
G1/4	0210 13 00	12	19	18	21	0.031
G3/8	0210 17 00	12	22	22	21	0.046
G1/2	0210 21 00	14	27	26	24	0.078
G3/4	0210 27 00	16	32	32	27	0.134
G1	0210 34 00	18	41	39	33	0.269
G1¼	0210 42 00	20	50	49	35	0.441

Profile of head undercut conforms to DIN 3852-1; form D/E
BSPP threads, ISO 228-1
Parallel metric threads, NFE 03-054

0216 Hex Head Plug, Male BSPT Thread

Steel

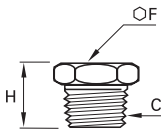


C		F	H	kg
R1/8	0216 10 00	13	16	0.012
R1/4	0216 13 00	17	19	0.023
R3/8	0216 17 00	19	21	0.038
R1/2	0216 21 00	22	23	0.060

BSPT thread conforms to EN 10226-1

0216 Hex Head Plug, Male NPT Thread

Steel

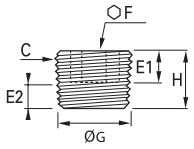


C		F	H	kg
NPT1/8	0216 11 00	13	16	0.012
NPT1/4	0216 14 00	17	19	0.024
NPT3/8	0216 18 00	19	21	0.038
NPT1/2	0216 22 00	22	23	0.060

Stainless Steel Plugs

0285 Internal Hexagon Head Plug, Male BSPT Thread

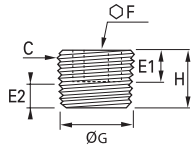
Stainless steel 316L



C		E1	E2 min	E2 max	F	G	H	kg
R1/8	0285 10 00	6	3.1	4.9	5	9.7	8	0.003
R1/4	0285 13 00	8	4.7	7.3	6	13.2	10	0.007
R3/8	0285 17 00	8	5.1	7.7	8	16.7	11	0.013
R1/2	0285 21 00	8	6.4	10	10	21	13	0.024
R3/4	0285 27 00	11	7.7	11.3	14	26.4	17	0.051
R1	0285 34 00	13	8.1	12.7	17	33.2	19	0.089

0285 Internal Hexagon Head Plug, Male NPT Thread

Stainless steel 316L

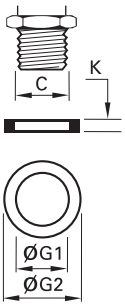


C		E1	E2 min	E2 max	F	G	H	kg
NPT1/8	0285 11 00	6	3.2	5	5	10.2	8	0.003
NPT1/4	0285 14 00	8	4.4	7.2	6	13.6	10	0.007
NPT3/8	0285 18 00	8	4.7	7.5	8	17	11	0.013
NPT1/2	0285 22 00	8	6.3	9.9	10	21.2	13	0.025

Sealing Accessories

0138 Copper Washer

Copper

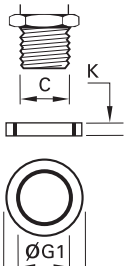


C		G1	G2	K	kg
M6	0138 06 00	6.3	9	1	0.033
M8	0138 08 00	8.3	11	1	0.001
M12	0138 12 00	12.3	15.5	1.3	0.072
M14	0138 14 00	14.3	18	1.5	0.001
M16	0138 16 00	16.3	20	1.5	0.001
M18	0138 18 00	18.3	22	1.5	0.001
M20	0138 20 00	20.3	24	1.5	0.001
M22	0138 22 00	22.3	27	1.5	0.002
M24	0138 24 00	24.3	29	2	0.003
M26	0138 26 00	26.3	31	2	0.003
M30	0138 30 00	30.3	36	2	0.004
M36	0138 36 00	36.3	42	2	0.005
M39	0138 39 00	39.3	44	2	0.007
M45	0138 45 00	45.3	52	2	0.007
M52	0138 52 00	52.3	60	2	0.009
G1/8	0138 10 00	10.3	13.5	1	0.001
G1/4	0138 13 00	13.5	18	1.3	0.001
G3/8	0138 17 00	17.3	21	1.5	0.001
G1/2	0138 21 00	21.3	26	1.5	0.002
G3/4	0138 27 00	27.3	32	2	0.003
G1	0138 33 00	33.5	39	2	0.005
G1 1/4	0138 42 00	42.5	49	2	0.007
G1 1/2	0138 48 00	48.3	55	2	0.008
G2	0138 60 00	60	68	2.5	0.014

DIN 7603
ISO 65061

0137 Bonded Seal

Zinc-plated steel with NBR seal



C		G1	G2	K	kg
M12	0137 12 00	12.7	19	1.5	0.001
M14	0137 14 00	14.7	21	1.5	0.001
M16	0137 16 00	16.7	23	1.5	0.002
M18	0137 18 00	18.7	27	2	0.004
M20	0137 20 00	20.7	29	2	0.004
M22	0137 22 00	22.7	31	2	0.005
M24	0137 24 00	24.7	33	2	0.005
M30	0137 30 00	30.7	39	2	0.071
M39	0137 39 00	40	51	2.5	0.012
M45	0137 45 00	46	57	2.5	0.014
G1/8	0137 10 00	10.7	17	1.5	0.001
G1/4	0137 13 00	13.7	20.6	2.1	0.002
G3/8	0137 17 00	17.4	23.7	1.5	0.002
G1/2	0137 21 00	21.5	28.6	2.5	0.004
G3/4	0137 27 00	27	35.3	2	0.007
G1	0137 33 00	33.7	42	2	0.007
G1 1/4	0137 42 00	43	54	2.5	0.013
G1 1/2	0137 48 00	49	60	2.5	0.015
G2	0137 60 00	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

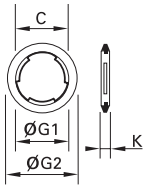
FKM

	kg
0605 12 12	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.

0602 Captive Sealing Washer

Technical polymer

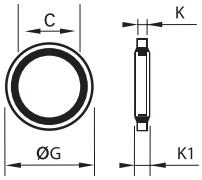


C		G1	G2	K	kg
M5x0.8	0602 29 93 15	5.2	7.8	1.5	0.001
G1/8	0602 23 10 20	10.3	14	2	0.001
G1/4	0602 23 11 20	13.7	17.5	2	0.001
G3/8	0602 23 12 20	17.2	21	2	0.001
G1/2	0602 23 13 20	21.5	25.5	2.5	0.002
G3/4	0602 27 32 20	27	32	2.5	0.001
G1	0602 30 60 20	33.8	39	3	0.001

Maximum allowable working pressure: 20 bar

0139 Bi-Material Captive Sealing Washer

Zinc-plated steel with NBR seal



C		G	K	K1	kg
G1/8	0139 10 00	14	1	1.7	0.001
G1/4	0139 13 00	17	1	1.7	0.001
G3/8	0139 17 00	22	1.2	2.1	0.001
G1/2	0139 21 00	26	1.6	2.5	0.002
G3/4	0139 27 00	32	1.5	2.5	0.003
G1	0139 34 00	39.6	1.7	2.6	0.003

Maximum allowable working pressure: 250 bar

Technical characteristics of captive seals **0602**

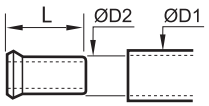
Tightening torque

	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

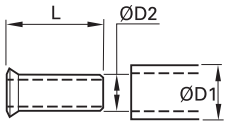


ØD1	ØD2		L	kg
4	2	0127 04 00	11	0.001
	2.7	0127 04 27	11	0.001
5	3	0127 05 03	11	0.001
	3.3	0127 05 00	11.5	0.009
6	4	0127 06 00	11.5	0.001
8	5.5	0127 08 55	14	0.001
	6	0127 08 00	14	0.001
10	7	0127 10 07	18	0.001
	7.5	0127 10 75	18	0.001
	8	0127 10 00	18	0.002
12	8	0127 12 08	18	0.002
	9	0127 12 09	18	0.002
	10	0127 12 00	18	0.001
14	11	0127 14 11	18	0.002
	12	0127 14 00	18	0.002
15	12	0127 15 12	18	0.002
16	13	0127 16 13	18	0.003
18	14	0127 18 14	19.5	0.003
20	15	0127 20 15	20.5	0.003
22	16	0127 22 16	21	0.004
25	19	0127 25 19	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



ØD1	ØD2		L	kg
6	4	1827 06 00	11.5	0.001
8	6	1827 08 00	14	0.001
10	8	1827 10 00	18	0.001
12	9	1827 12 09	18	0.001
	10	1827 12 00	18	0.001
16	14	1827 16 00	18	0.002

This tube support is necessary when using fluoropolymer FEP tubing at all temperatures compatible with the fitting/ tubing assembly.

Notes

Notes

Together, we can connect you to the best in technology

Inventor of the push-in fitting with more than 40 years of experience, Parker Legris has the know-how necessary for providing fluid connectors adapted to a wide variety of environments, such as production automation, packaging, transport, food process and the medical industry. Our wide selection of fittings, tubing, ball valves and accessories, along with our capacity to develop specific products, allow our customers to find the very best connector solution. Parker Legris, the right partner to accompany you in product development.

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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

Parker Legris has a continuous product development policy and therefore reserves the right to modify products shown in this catalogue. Please treat all dimensions therefore as indicative.

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Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further 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^2 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

Parker

ENGINEERING YOUR SUCCESS.