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

Connection Solutions for Industrial Fluids

Parker

legris connectic

ENGINEERING YOUR SUCCESS.

Connection solutions for industrial fluids

2010
Low Pressure catalogue

www.legris.com
www.parkerconnectic.com

introduction

Legris, Fluid System Connectors Division Europe within the Parker Hannifin Corporation

A division of the Parker group since October 2008, Legris designs, develops and manufactures connection solutions that enhance our customers' productivity and profitability.

Legris' Activities

Legris' expertise is evident in three main areas : **Connectic** (instant fittings, function fittings, tubing, couplers, valves and accessories for low pressure applications), **Transair** (rapid fittings for compressed air, vacuum and water networks in industry) and **Autoline** (quick connectors for automobile fuel lines).

Certified ISO 9001 : 2000 and ISO/TS 16949.

150 Years of Industrial History

-1848 Legris starts as a valve manufacturer

-1969 Invention and launch of the world's first instant fitting, the LF 3000®

- 1988 Legris becomes a division of Groupe Legris Industries

- 1996 Launch of Transair® (compressed air connection systems)

- 1997 Launch of Autoline (automotive fuel couplings)

- 2008 Launch of LIQUIfit, a range of instant fittings and tubes for water and beverages

- 2008 Acquisition of Legris by the Parker Hannifin Corporation*

- 2009 Legris becomes the Fluid System Connectors Division Europe

*Parker Hannifin Corporation, the world's leading diversified manufacturer of motion & control technologies and systems

Legris' Locations

Legris has 8 industrial locations in France (Baillé, Guer, Guichen, Malestroit, Muzillac, Rennes), Belgium (Herstal) and Spain (Terrassa). Legris' reach in production, marketing and sales is an invaluable advantage, enabling Legris to deliver the right solutions to customers in all our markets.

Industrial Applications

Legris Connectic works closely with companies that are present in all industrial fields and offers a wide range of products and services in order to meet the requirements of various sectors : assembly and packaging machines, automation, liquid food circuits, automotive process, etc.

introduction

a comprehensive range of services

Legris offers an extensive range of services worldwide aimed at ensuring customer service and satisfaction.

Order placement systems suited to all customers

Legris provides different ways of placing an order depending on the customer's structure or organization. Each customer can choose the most economical, the quickest or the easiest method: **EDI** or Internet transmissions via **website, e-mail, traditional** order (post, fax, phone).

Assistance in selecting a product

Legris offers numerous brochures to assist the user in selecting products. Accessible to everyone and available in most common languages: printed versions, CD ROM and downloadable from legris.com.

Bar codes: easier inventory management

All Legris Connectic standard product packaging boxes include a **bar code label** enabling automatic product **identification** and the prevention of manual errors. Input and output operations are **accelerated**, stocking and restocking inventory are **easier** and **continuous**. Upon request we can also provide **personalised** bar codes : those of our customers, EAN or UPC.

An **expert network** of more than 1,000 official Legris distributors, a genuine sales and technical partnership, ensures that there is a **close relationship** with each local market. Do not hesitate to contact them for further information and advice.

introduction

a comprehensive range of services

Legris Connectic proposes a range of services to support its customers, especially helping them to reinforce their productivity.

Additional information accessible to everyone via the Legris website

Legris.com includes the complete range of European, Asian and American products and gives access to thousands of product part numbers. Three search facilities direct the user to a complete and **real-time, updated** product file with technical drawings and pictures. Each catalogue offers the possibility to place and receive **quotation requests**, which will be sent to distributors within the same corresponding geographical area. Sections containing technical advice and animated graphics offer the user an optimized understanding of product technologies and their applications.

Saving on design time with downloadable CAD drawings

Legris Connectic offers the possibility to download CAD drawings for a large number of products. This service is available to all, via legris.com, through a **free, easy** and **quick** download and the formats provided (2D and 3D) are compatible with the main CAD systems used worldwide. This enables time saving in equipment design : each downloaded component can be directly integrated into an assembly, with the associated nomenclature. In addition, this service **guarantees** choice. Indeed, with Legris CAD drawings you can ensure that the selected components are suitable for use with other components within the assembly.

Optimized supplies by the use of e-catalogues

Legris Connectic electronic catalogues (e-catalogues) are specifically designed for customers who purchase via the Internet (e-procurement). These databases are «**tailor-made**» for the user and show all product details: product codes description, dimensions, pictures, drawings…etc and are provided to our distributors for their e-commerce activity. Through the design of these e-catalogues, Legris Connectic assists its customers in the automation of their purchasing process. The result : **lower** purchasing and administrative **costs**, **rationalization** of internal processes and top quality supplier information.

introduction

As an introduction to this catalogue, we include a section containing basic technical generalities, practical information and recommendations.

technical guidelines

pages 11 and 12

- flow and pressure loss of compressed air, pressure, vacuum and vacuum level
- threaded connections

practical information

pages 13 to 15

- international units of measurement
- professional organisations throughout the world
- conversion tables
- identification of Legris part numbers

recommendations

pages 16 to 18

- automotive process
- food industry applications
- safety
- the Legris range and European Directives
- our European catalogue

You will find the contents of this catalogue on page 19.

Legris ensures that its extensive knowledge of both product design and manufacture meets end user requirements.

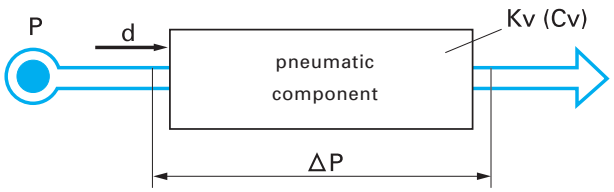
*In addition, our production process includes individual unit quality control and dating, for all push-in fittings, in order to guarantee their **quality** and **traceability**.*

technical guidelines

flow and pressure loss of compressed air

Flow represents the quantity of compressed air that passes through a section over a unit of time. It is represented in l/min, m^3/min or m^3/h, at the equivalent value in free air, in conditions of standard reference atmosphere (SRA), i.e. :
+ 20°C, 65% of relative humidity, 1013 mbar, in accordance with norms NFE48100 and ISO R554, R558.
When opened and submitted to inlet pressure (**P**), the pneumatic component insures a flow rate (**d**) generating pressure drop at the outlet.

The difference of pressure measured, between the inlet (pressure upstream) and the outlet (pressure downstream), is called **pressure loss** represented by Δ**p** (differential pressure).



To quickly define the values of pressure loss according to flow and pressure, the user must remember that air is a compressible fluid. In this case, many parameters are taken into account in a sometimes complex way.

In order to obtain simple and useful values which enable calculations and comparison of the performance of pneumatic components, in practise, we use a flow coefficient called **Kv**. This coefficient characterises the flow capacity of a component and corresponds to the precise value of water flow in l/min, under a Δp of 1 bar, with completely unimpeded flow.
Flow coefficient Kv corresponds to a conductance coefficient ; indeed the higher its value, the better the flow assured by the component.

Kv and pressure loss are linked by the following relation :

$$\mathbf{Qv = 26{,}7\ Kv \sqrt{\Delta p \times P\ upstream}}$$

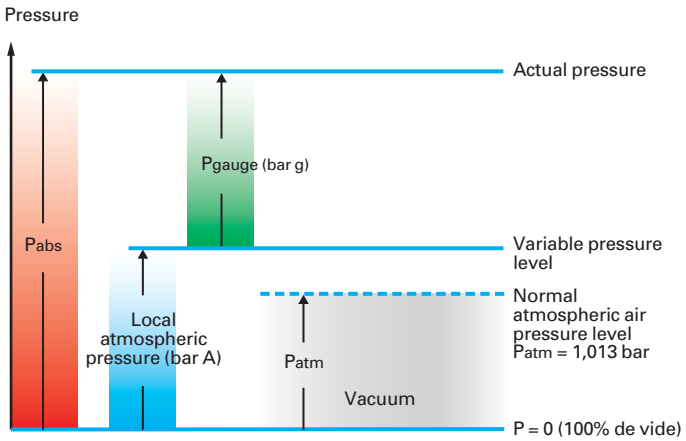
Qv = flow in l/min
Kv = flow coefficient
Δ**p** = in bar
P upstream : in absolute bar

Cv is a flow coefficient equivalent to Kv but based as US gallons per minute under a Δp of 1 PSI.
Kv and Cv are in the following ratios :
Kv = 14,3 Cv – Cv = 0,07 Kv.

Where flow is indicated in the Legris catalogue, such values are given as the average flow at 6 bar represented in NL/min of reduced air at standard reference atmosphere (SRA).

pressure

Normal atmospheric air pressure represents 1013 mbar at sea level. Generally used as a reference for pressure measurement, it is, however, variable according to altitude. For tests and measures, it is advisable to use absolute bar corresponding to absolute pressure.



Pabs = Patm + gauge
Pabs : absolute pressure
gauge : relative gauge pressure
Patm : normal atmospheric pressure

In industrial practise, pressure is represented in bar and is the result of a strength in daN applied on a surface in cm^2.

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

vacuum and vacuum level

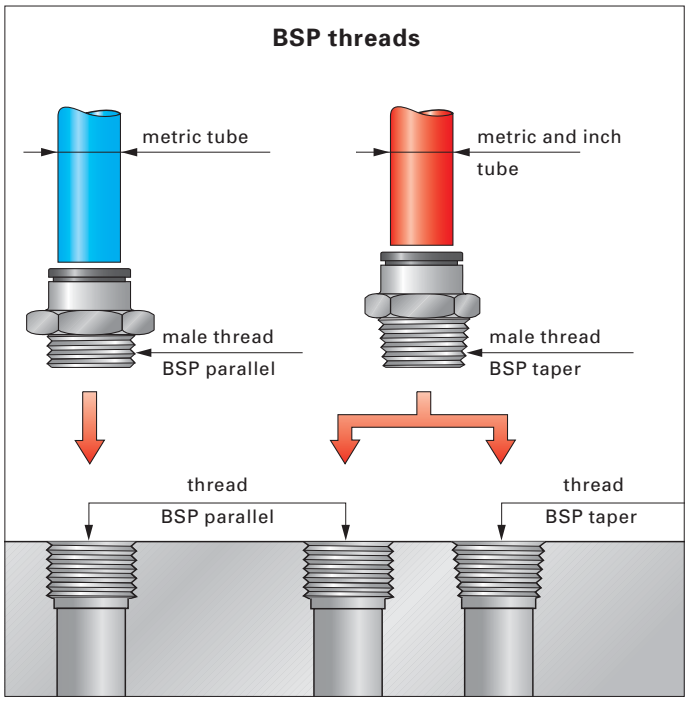
Vacuum appears when atmosphere is rarefied. By evacuating the air in a closed space, partial vacuum is generated.
Therefore vacuum corresponds to the decrease in pressure below the normal value of atmospheric pressure.

Vacuum level can be represented 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 millimetres of mercury (**mm Hg**).

Classification of vacuum
- medium vacuum 1013 to 10 absolute mbar
- primary vacuum 10 to 10^{-3} absolute mbar
- secondary vacuum 10^{-3} to 10^{-6} absolute mbar
- molecular vacuum 10^{-6} to 10^{-9} absolute mbar
- ultra-vacuum < 10^{-9} absolute mbar

The acceptable **maximum pressure** of a component is the effective pressure to which this item can be submitted in a given installation.
Upstream pressure is the compressed air pressure at the component inlet.
Downstream pressure is the component outlet pressure.
Differential pressure (Δp) is the difference between upstream pressure and downstream pressure.



BSP threads (British Standard Pipe)

Two common types of profile are :

- parallel : which can be assembled with the compatible parallel thread. Sealing is ensured by washer face.
- taper : which can be assembled in the same parallel or taper thread. Sealing is ensured by thread coating.

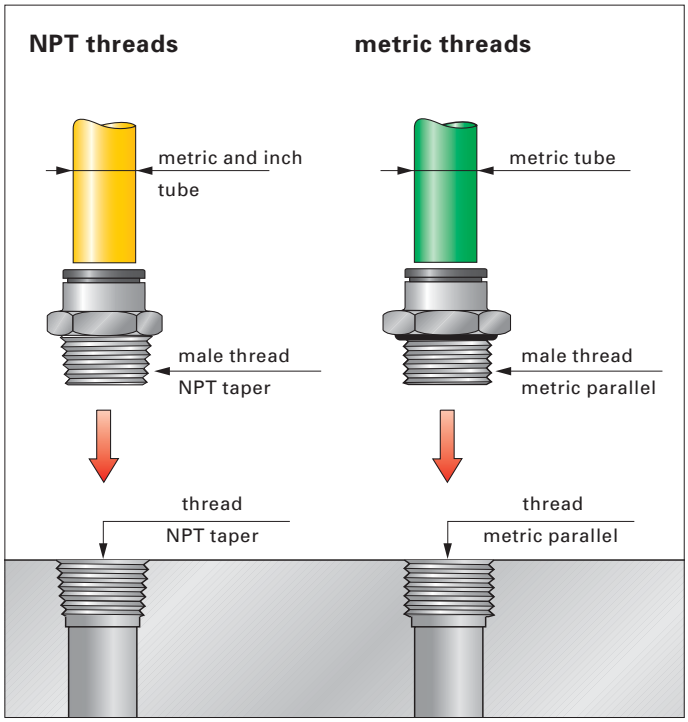
thread designation

- **exterior threads** (male)

  - BSP parallel : G followed by the description, according to standard ISO 228-1
  example : 1/8 thread BSP parallel ❮ **G1/8**
  - BSP taper : R followed by the description, according to standard ISO 7-1
  example : 1/8 thread BSP taper ❮ **R1/8**

- **inner threads** (female)

  - BSP parallel : Rp followed by the description
  - BSP taper : Rc followed by the description



metric threads

These ISO profile threads are parallel type threads which can be assembled with the compatible parallel thread. Sealing is ensured by washer face.

thread designation

- M followed by diameter x pitch in mm, according to standards ISO 68-1 and ISO 965-1
  example : **M7x1**

NPT threads (National Pipe Thread)

NPT is an American taper thread standard ANSI B2 1968. They can be assembled on the same taper thread. Sealing is ensured by thread coating.

Legris fittings can be used for any installation conforming to international standards DIN 3852 (1, 2, 3) – NF F 49051 – NF E48051 – JIS B202/JIS B203 – ISO7-1 – ISO 228-1 - DIN 259 - BS 21 - BS 2779

practical information

main units

(International System SI and derived units)

length	unit	symbol	other common units
Area	square metre	m^2	cm^2 , mm^2
Volume	cubic metre	m^3	cm^3 , dm^3
Mass	Kilogram	kg	g, mg
Time	Second	s	min, h
Frequency	hertz	Hz	-
Temperature	degree Celsius or Kelvin	°C or °K	-
Flow	cubic metre per second	m^3/s	cm^3/s, dm^3/s, l/s, l/min, cfm
Power	Newton	N	-
Torque	Newton metre	N-m	mN
Pressure	Pascal	Pa	bar, mbar, psi
Noise	decibel	dBA	-

units used in this catalogue

symbol	unit
A	ampere
bar	bar
°C	degree Celsius
dBA	decibel
Hz	hertz
kg	kilogram
m	metre
m^2	square metre
m^3/h	cubic metres per hour
min	minute
mm	millimetre
mm Hg	millimetre of mercury
N	newton
Nl	normal litre at standard reference atmosphere
V	volt

Legris conducts all tests at standard conditions of pressure and temperature (1013 mbar, 20°C).
All flow values mentioned in this catalogue are given in NL/min.

abbreviations of main national and international organisations

AFNOR (F)	Association Française de Normalisation
ASME (USA)	American Society of Mechanical Engineers
BSI (GB)	British Standards Institution
CEN (EU)	Comité Européen de Normalisation
CNOMO (F)	Comité de Normalisation des Outillages et Machines
DIN (D)	Deutsches Institut für Normung e.V
FDA (USA)	Food and Drug Administration
ISO (Int.)	International Organization for Standardization
JSA (JP)	Japanese Standards Association
NFPA (USA)	National Fluid Power Association
NSF (USA)	National Sanitation Foundation
SK (D)	Zertifizierungsstelle für Getränkeschankanlagen
VDMA (D)	Verband Deutscher Maschinen- und Anlagenbaue e.V

practical information

conversion tables

units of pressure

1 bar = 100 000 Pa = 100 kPa = 14,5 psi
1 Pa = 0,00001 bar = 0,000145 psi
1psi = 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 flow

l/min →	Cfm →	m^3/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 (in mm Hg)	vacuum (in %)	absolute pressure (in mbar)	depression (in 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 temperature

°F →	°C	°F →	°C
-40	-40.0	+105	+40.6
-35	-37.2	+110	+43.3
-30	-34.4	+115	+46.1
-25	-31.7	+120	+48.9
-20	-28.9	+125	+51.7
-15	-26.1	+130	+54.4
-10	-23.3	+135	+57.2
-5	-20.6	+140	+60.0
0	-17.8	+145	+62.8
+5	-15.01	+150	+65.6
+10	-12.2	+155	+68.3
+15	-9.4	+160	+71.1
+20	-6.7	+165	+73.9
+25	-3.9	+170	+76.7
+30	-1.1	+175	+79.4
+32	0.0	+180	+82.2
+35	+1.7	+185	+85.0
+40	+4.4	+190	+87.8
+45	+7.2	+195	+90.6
+50	+10.0	+200	+93.3
+55	+12.8	+205	+96.1
+60	+15.6	+210	+98.9
+65	+18.3	+215	+101.7
+70	+21.1	+220	+104.4
+75	+23.9	+225	+107.2
+80	+26.7	+230	+110.0
+85	+29.4	+235	+112.8
+90	+32.2	+240	+115.6
+95	+35.0	+245	+118.3
+100	+37.8	+250	+121.1

°C →	°F	°C →	°F
-40	-40	+105	+221
-35	-31	+110	+230
-30	-22	+115	+239
-25	-13	+120	+248
-20	-4	+125	+257
-17,8	0	+130	+266
-15	+5	+135	+275
-10	+14	+140	+284
-5	+23	+145	+293
0	+32	+150	+302
+5	+41	+155	+311
+10	+50	+160	+320
+15	+59	+165	+329
+20	+68	+170	+338
+25	+77	+175	+347
+30	+86	+180	+356
+35	+95	+185	+365
+40	+104	+190	+374
+45	+113	+195	+383
+50	+122	+200	+392
+55	+131	+205	+401
+60	+140	+210	+410
+65	+149	+215	+419
+70	+158	+220	+428
+75	+167	+225	+437
+80	+176	+230	+446
+85	+185	+235	+455
+90	+194	+240	+464
+95	+203	+245	+473
+100	+212	+250	+482

recommendations
identification of Legris part numbers

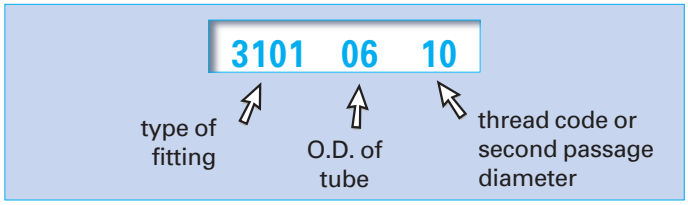
To help users, Legris classifies its product ranges with specific part numbers which provide easy identification of each item.

Legris fittings and valves

Part numbers have been chosen by a method of mnemonics. Each fitting is identified by :

- its series (4 numbers)
- the diameter of passage through the fitting (2 numbers)
- the thread code or diameter of the second passage (2 numbers)
- a suffix, if appropriate

fittings

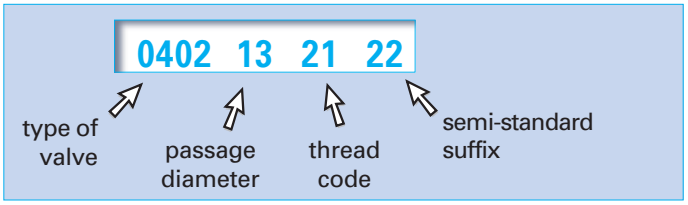


diameter of passage : corresponds to the O.D. of tube
thread code : see chart below

When the item is not threaded (plug-in or tube to tube fittings) the code used is : **00**

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

valves



passage diameter : corresponds to the passage diameter through the valve
thread code : see chart below

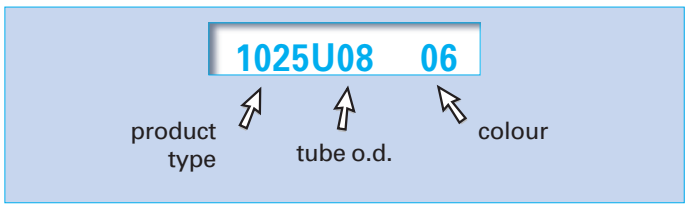
NPT thread	code
1/16	08
1/8	11
1/4	14
3/8	18
1/2	22
3/4	28
1"	35
1"1/4	43
1"1/2	50
2"	44

BSP thread	code
1/8	10
1/4	13
3/8	17
1/2	21
3/4	27
1"	34
1"1/4	42
1"1/2	49
2"	48

Legris tubing and hoses

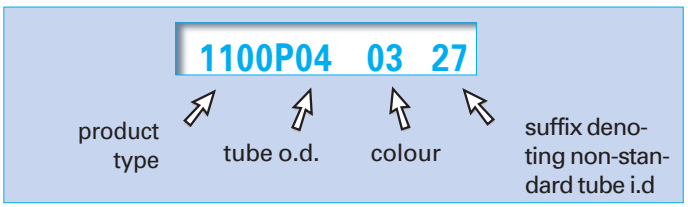
Part numbers have been chosen by a method of mnemonics. Each tube and hose is identified by :

- product type (4 numbers and one letter)
- o.d. of the tube (2 numbers)
- colour (2 numbers)
- i.d. of non-standard tube, if appropriate (2 numbers)



tube o.d. : corresponds to the outside diameter of the tube
colour code : see chart below

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



tube o.d. : corresponds to the outside diameter of the tube
colour code : see chart below
suffix code : corresponds to the inside diameter of non-standard tube

recommendations

automotive process industry

Legris has been providing new solutions to O.E.M's for over 40 years in a changing and demanding market. Whatever the activity, the Legris range continues to provide ever increasing performance, quality and safety.

chapter A

Stamping and steel plate activity

LF 3000 push-in fittings and polyurethane tubing

Automatic parts handling requires extensive pneumatic automation. **Performance** of LF 3000 push-in fittings connected to polyurethane tubing meets most requirements: **full flow, vacuum** capability and **silicone free**.

Spot welding activity

chapter C

anti-spark tubing and LF 3600, LF 6000 push-in fittings

In the **spot welding** field, the equipment in use is submitted to **severe conditions**. The LF 3600 and LF 6000 push-in fittings and the anti-spark tubing meet these requirements : **high pressures and temperatures**, excellent resistance to **spark projections**, small **overall dimensions**.

chapter K

self-fastening hose and quick barbed fittings

For optimum performance of robotic equipment, fluid supplies (compressed air and cooling water) require **reliable** connection technology that **conforms to expected standards**. The self-fastening hose used with quick barbed fittings is designed to meet these requirements.

Painting activity

chapter G

stainless steel fittings

Paint distribution –automatic or manual- requires a range of connectors and devices for pneumatic power where each component withstands **aggressive fluids**. Legris stainless steel ranges are particularly suitable for this type of application.

chapter L

Assembly and trimming activity

quick acting couplers and recoil tubing

On manual lines, Legris C 9000 metal quick acting couplers have been designed for pneumatic installation which require frequent connection or disconnection: **safety**, high **flow** performance and low **pressure drop**.

chapter R

Piloted axial valves

On automated liquid filling lines, the piloted axial valves are perfectly designed for these requirements: **automatic opening/closing** of circuits, **compactness** and compatibility with **numerous industrial fluids**.

chapters C and D

Brass Compression fittings and high performance fittings for industrial fluids and lubrication

This range of fittings has been designed for all applications that require perfect sealing and excellent **resistance to temperature** and medium and high pressure.

recommendations

food industry applications

Products designed for food industry use must conform to specific requirements, dependant upon the application.
The Legris catalogue features several product ranges that meet such requirements, including:
- ranges for food fluids, with materials that conform to relevant FDA standards.
- ranges for compressed air and other fluids, whose materials can be used in direct contact with food products.
Here are some examples:

LF 3600 push-in fittings
for food fluids
Materials: FDA approved chemical nickel-plated brass and FKM seals

chapter C

chapter F

LF 3800 push-in fittings
for industrial fluids in food environments
Materials: stainless steel AISI 316L and FKM seals, can be used in contact with food products.

stainless steel function fittings
flow regulators and non-return valves* for food environments.
Material: stainless steel AISI 316L
*upon request: for food fluids, with FKM seals.

chapter G

chapter J

stainless steel accessories
for food fluids
Material: stainless steel AISI 316L

stainless steel compression fittings
for industrial fluids in food environments
Material: stainless steel AISI 316L,
can be used in contact with food products.

chapter H

chapter R

stainless steel industrial ball valves
for food environments
Material: stainless steel AISI 316L

technical tubes and hoses
FEP tubing, polyethylene tubing and braided PVC hose for food fluids

chapter K

recommendations

safety

The safety of individuals and equipment in the workplace is one of the main responsibilities of company managers, shop floor supervisors, prevention organisations and standards bodies. Several Legris ranges have been specifically designed to meet the operating requirements and safety standards that apply to all industrial organisations.
Some examples are highlighted below.

blocking fittings
Designed to offer maximum flow capacity, Legris blocking fittings lock the piston by simultaneously cutting off the supply and exhaust air.

chapter B

chapter B

non-return valves
Allow free flow of air in one direction only. V ring technology ensures positive leak-tight sealing, even when the fitting is submitted to vibration.

pneumatic soft start fittings
These fittings allow start-up air pressure to increase gradually and thus prevent shocks within the system, saving wear and preventing injury to users and components.

chapter B

chapter L

C9000 advanced quick acting safety couplers
Even if disconnection is performed rapidly, the safety of the end-user is guaranteed thanks to a very short vent-time and two stage release of body and probe.

lockable ball valves
These ball valves have been developed in order to prevent potentially dangerous consequences caused by unintended operation, thus meeting international safety requirements.

chapter R

chapter M

dynamic safety blowguns
An integrated pressure regulator ensures pressure reduction and safety to the user and machinery at all times.

legris.com's plus points

Within the learning space of the Legris web site, you will find animated presentations of many safety solutions:

www.legris.com

introduction
the Legris range and European Directives

European directives ROHS, ELV and WEEE

Legris has always encouraged the use of non dangerous substances (heavy metals, bromine derivatives) in the design of its products in order to protect the **environment** and to safeguard **public health**. Thus, every effort has been made to ensure that **concerned ranges** would respect European directives ROHS, ELV and WEEE (2002/95/CE – 2002/96/CE – 2003/11/CE and 2000/53/CE), by 1st July 2006.

- **Directive ROHS** (Reduction of Hazardous Substances - 2002/95/CE)
  European directive for the reduction of hazardous substances (mercury, lead, cadmium, Chromium 6, PBB and PBDE) in **electrical and electronic equipment**.
- **Directive ELV** (End of Vehicle Life - 2000/53/CE)
  European directive for the reduction of hazardous substances in **vehicles**.
- **Directive WEEE** (Waste Electrical and Electronic Equipment – 2002/96/CE)
  European directive for the recovery and recycling of waste from **electrical and electronic equipment**.

European Directive ATEX 94/9/CE

Since 1st July 2003, each device intended for use in potentially **explosive atmospheres**, sold by manufacturers, must comply with European Directive 1994/9/CE, also known as Directive ATEX 100a (EXplosive ATmosphere).

We declare that **no standard Legris low pressure products**, with the exception of the products listed below, **are concerned by the ATEX 94/9/EC directive** since they do not have their own ignition source. When analysing the risk within a system with integral components which may fall within the scope of this directive, the possibility of electrostatic phenomena induced by the electrical non-conductivity of the plastic materials must, nonetheless, be considered.

Today, these 3 families in their standard version **do not comply with ATEX 94/9/EC**.

Recommendation : equipment combinations or installations, submitted to this directive, should be submitted to a conformity evaluation by a NO (Notified Organism).

- **7828** Pneumatic/electric BSP parallel and metric sensor fittings
- **4298** Mini-solenoid valve 1W / 1,2VA for assembly on axial valves
- **4299** Pneumatic/electro-pneumatic button for assembly on axial valves

European directive 97/23/CE

This directive regulates the design, production and control of under pressure devices, in order to guarantee safety of operations.

Legris industrial ball valves, used to convey numerous fluids, fall within this directive and, thus, carry a **CE marking for DN 25 and above**

European REACH regulation

The European REACH regulation (Registration, Evaluation and Authorization of Chemicals), published in the Official Journal of the European Union on 30 December 2006 and entered into force since the 1 June 2007, establishes a single regulatory system in Europe for the REACH.

Legris SAS is only submitted regarding the regulation, to the requirement of notifying, according to the article 7 § 2 of the regulation, the European agency in the exlusive case of articles imported and containing at least one substance which is subjected to the authorization requirements as defined by the articles 57 and 58 of the regulation and listed by ECHA ; with a concentration of > 0,1 % in mass / mass of the article and for more than a tonne.

Legris has taken the necessary steps and has integrated in its purchasing contracts all its obligations about REACH to ensure that its suppliers carry out the pre-registrations of all substances contained in its products, mixtures and materials, to guarantee the supplying of all its customers without any changes to its products.

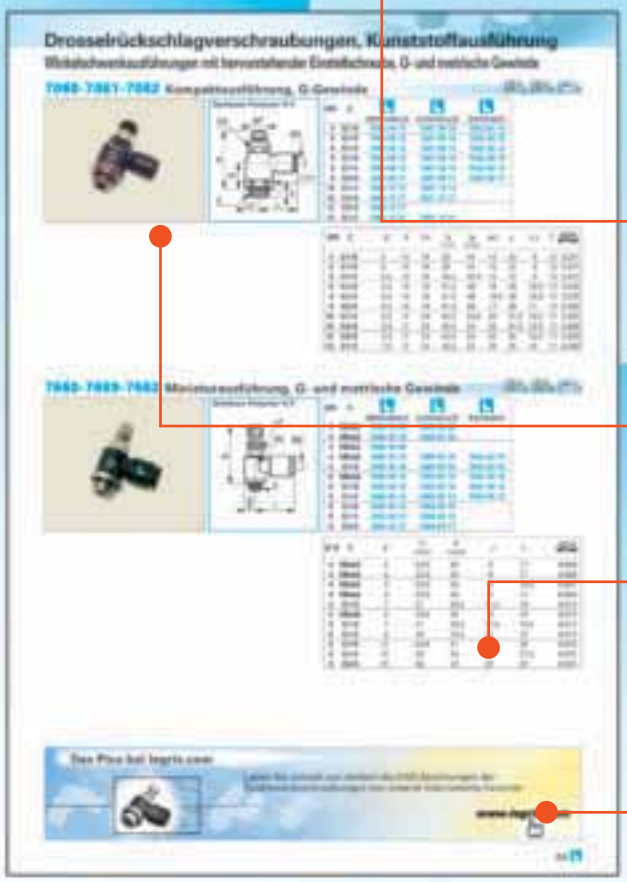
consult our European catalogue with ease

The Legris catalogue of low pressure industrial connections is published in 8 languages –English, German, Spanish, French, Italian, Dutch, Portuguese and Swedish. Its design, identical for each of these languages, enables fast and easy selection of products.

one colour per type of product.

« the complete range » pages: on which page you can find the models you require

principle of the range: its general characteristics, its application fields.



grey chart: technical specifications of the range

for each model : a picture and a technical drawing

for each part number : the dimensions and weight

information box at the bottom of the page: further information to be consulted either in the catalogue or on the Legris web-site

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for all fluid applications

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for aggressive fluids and environments : stainless steel fittings

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push-in fittings
system LF 3000®

legris
connectic

principle of system LF 3000®

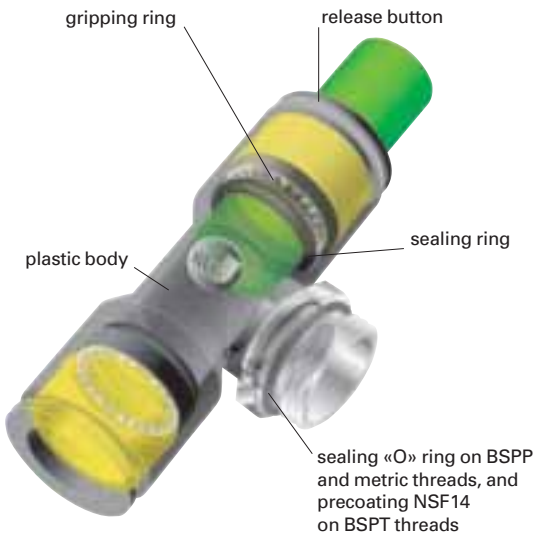
Invented and launched by **Legris** in 1969, the **LF 3000® system** has been adopted extensively throughout the world and has been designed using a simple and widely proven operating principle which allows instant fitting.
Connection of tube to fitting is made by simply pushing the tube into the fitting, no other operation is required.
Disconnection is similarly **«instantaneous»**.
Attentive to market needs, **Legris** has adapted to the requirements of its customers, i.e. optimisation of performance, miniaturisation and appearance.
In order to be utilised to its maximum capability, the **LF 3000® system** is available in 3 versions :
- for **metric tubing** with **BSP threads in taper, parallel or metric form.**
- for fractional **inch tubing** with **BSP threads in taper form.**
- for fractional **inch tubing** with **NPT threads.**

Millions of **LF 3000®** fittings are in everyday use worldwide.

The LF 3000® range also meets the latest international standard - ISO 14743 - for push-in connectors used in conjunction with thermoplastic tubes.

technical specifications

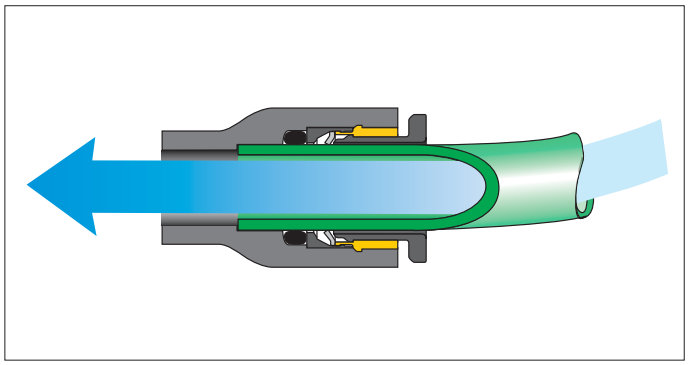
Reliable performance is dependent upon the type of tubing being used, ambient temperature and fluid conveyed together with the suitability of the component materials of the fitting, according to the application.
LF 3000® push-in fittings conform to ISO 14743 standard.



All items in the LF 3000® range are guaranteed SILICONE FREE

suitable fluids	compressed air For further information on use with fluids, please consult us.							
working pressure	20 bar maximum Maximum circuit pressure depends equally on the type and diameter of tubing used. See Chapter K for the full range of Legris tubing.							
vacuum capability	vacuum of 755 mm Hg (99% vacuum)							
working temperature	-20° to +80°C Suitability depends equally on the type and OD of the tube used. For temperatures above 80°C, please consult us.							
constituent materials	**body** : glass reinforced nylon 6.6 **gripping ring** : stainless steel **sealing ring** : nitrile (EPDM, FPM on request) **sub-base** : nickel-plated brass (stainless steel upon request)							
maximum tightening torque for LF 3000® fittings, BSPP and metric threads	Thread	M3 x 0,5	M5 x0,8	M7 x1	G1/8"	G1/4"	G3/8"	G1/2"
	da N.m	0,06	0,16	0,8	0,8	1,2	3	3,5

advantages of system LF 3000®

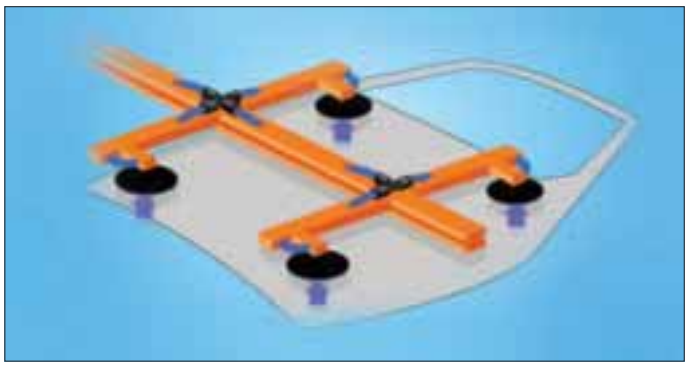


performance and reliability

- **full flow :** sealing within the fitting is achieved by using the outside of the tube, without deformation, therefore there is no flow restriction.
- **automatic sealing :** the 'O' ring within the fitting provides a positive seal on the O.D. of the tube, in both static and dynamic positions, due to the **optimised design** of the tube guide .

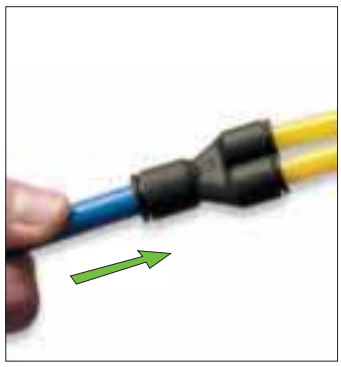
one of the most extensive ranges on the market

- **a solution for all applications :** wide variety of body designs and numerous configurations, from 3 mm to 14 mm diameters.
- **3 types of thread :** BSP parallel, BSP taper and metric.
- special versions available on request – please consult us.



vacuum capability

- perfectly suited to applications requiring **primary vacuum, due to the specific design profile** of the sealing ring.
- **full air flow**, and thus **optimum vacuum flow**, suitable for high performance vacuum applications.



instant connection and disconnection

- **instant** connection and disconnection without the use of spanners or tools.
- **release button covers :** available in 5 colours, to **identify** different circuits.

immediate seal

- for **taper threaded fittings,** by pre-coating.
- for **parallel** threaded fittings, with **reinforced sealing** by a patent built-in captive 'O' ring seal.

compact and aesthetic

- optimised dimensions and new body designs, to satisfy the **ergonomics** and **aesthetics of pneumatic installations.**

light weight

- a feature introduced for improved performance, mobility and functionality.

Our production process includes individual unit quality control and dating, for all LF 3000® push-in fittings, in order to guarantee their quality and traceability.

the complete range of LF 3000® push-in fittings

stud fittings

straight

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3101 parallel Page A7

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tube to tube fittings

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bulkhead connector fittings

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banjo fittings

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3149 parallel Page A14

3119 parallel Page A14

multiple fittings and manifolds

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The LF 3000® system can be used for

- **metric tubes,** from 3 mm to 14 mm o.d.
  – BSP taper, BSP parallel and metric threads
- **imperial tubes,** from 1/8 to 1/2 o.d.
  – NPT, UNF and BSP taper threads, please request on details.

the complete range of LF 3000® push-in fittings

plug-in fittings and accessories

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multi-connectors and din rail connectors

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modular banjo fittings

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self-sealing fittings

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accessories

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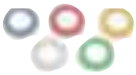
3110 Page A31 

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carstick cartridges

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quick fitting

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3 mm threaded fittings

stud fittings

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tube to tube fittings

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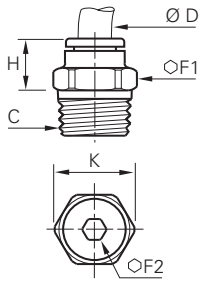
3175 male stud fittings, hexagonal, BSPT thread

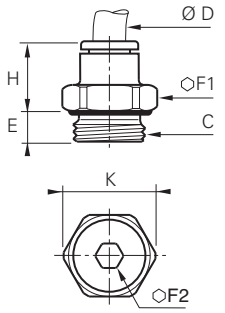
nickel-plated brass, pre-coated thread



Ø D	C		F1	F2	H	K	kg
4	R1/8	3175 04 10	10	3	9,5	11	0,006
4	R1/4	3175 04 13	14	3	6,5	15	0,013
4	R3/8	3175 04 17	17	3	8	18,5	0,024
6	R1/8	3175 06 10	11	4	11,5	12	0,005
6	R1/4	3175 06 13	14	4	8,5	15	0,011
6	R3/8	3175 06 17	17	4	8,5	18,5	0,021
6	R1/2	3175 06 21	21	4	9	23	0,043
8	R1/8	3175 08 10	13	5	20	14	0,011
8	R1/4	3175 08 13	14	6	17	15	0,014
8	R3/8	3175 08 17	17	6	13	18,5	0,021
8	R1/2	3175 08 21	21	6	12	23	0,040
10	R1/8	3175 10 10	16	5	22,5	17,5	0,017
10	R1/4	3175 10 13	16	7	20	17,5	0,017
10	R3/8	3175 10 17	17	8	16,5	18,5	0,019
10	R1/2	3175 10 21	21	8	14	23	0,036
12	R1/4	3175 12 13	19	7	26,5	21	0,029
12	R3/8	3175 12 17	19	9	24	21	0,028
12	R1/2	3175 12 21	21	9	19,5	23	0,036
14	R3/8	3175 14 17	22	9	28,5	24	0,042
14	R1/2	3175 14 21	24	10	23,5	26	0,046

3101 male stud fittings, hexagonal, BSPP and metric thread

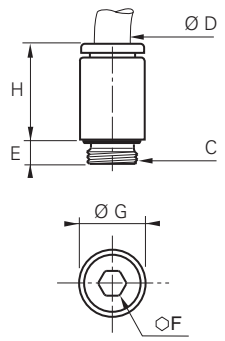
nickel-plated brass, with integral 'O' ring seal



Ø D	C		E	F1	F2	H	K	kg
3	M3x0,5	3101 03 09	2,5	8	-	12,5	8,5	0,003
3	M5x0,8	3101 03 19	3	8	2,5	12,5	8,5	0,003
4	M3x0,5	3101 04 09	2,5	8	-	14,5	8,5	0,003
4	M5x0,8	3101 04 19	3	8	2,5	14	8,5	0,003
4	M7x1	3101 04 55	5	10	2,5	14	11	0,005
4	G1/8	3101 04 10	4,5	13	3	11,5	14	0,007
4	G1/4	3101 04 13	5,5	16	3	10,5	17,5	0,011
6	M5x0,8	3101 06 19	3,5	10	2,5	16	11	0,005
6	M7x1	3101 06 55	5	10	3	16	11	0,005
6	M10x1	3101 06 60	5	13	4	13	14	0,030
6	M12x1,5	3101 06 67	5,5	15	4	13	16	0,009
6	G1/8	3101 06 10	4,5	13	4	13	14	0,007
6	G1/4	3101 06 13	5,5	16	4	12,5	17,5	0,011
6	G3/8	3101 06 17	5,5	20	4	13	22	0,015
6	G1/2	3101 06 21	7,5	24	4	20	26	0,018
8	M10x1	3101 08 60	5	13	5	21	14	0,012
8	M12x1,5	3101 08 67	5,5	15	5	21	16	0,030
8	G1/8	3101 08 10	4,5	13	5	20,5	14	0,011
8	G1/4	3101 08 13	5,5	16	6	19,5	17,5	0,016
8	G3/8	3101 08 17	5,5	20	6	18	22	0,022
8	G1/2	3101 08 21	7,5	24	6	16,5	26	0,018
10	G1/4	3101 10 13	5,5	16	7	23	17,5	0,018
10	G3/8	3101 10 17	5,5	20	8	19,5	22	0,021
10	G1/2	3101 10 21	7,5	24	8	18,5	26	0,033
12	G1/4	3101 12 13	5,5	19	7	27,5	21	0,027
12	G3/8	3101 12 17	5,5	20	9	27	22	0,029
12	G1/2	3101 12 21	7	24	10	22,5	26	0,035
14	G3/8	3101 14 17	5,5	22	9	29,5	24	0,041
14	G1/2	3101 14 21	7	24	11	28	26	0,047

3181 male stud fittings, round body, M7 thread

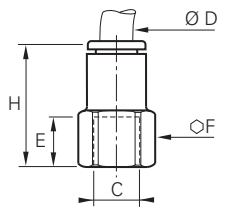
nickel-plated brass, with integral 'O' ring seal



Ø D	C		E	F	G	H	kg
4	M7x1	3181 04 55	5	3	10	14	0,005
6	M5	3181 06 19	3,5	2,5	10	16	0,006
6	M7x1	3181 06 55	5	3	10	16	0,006

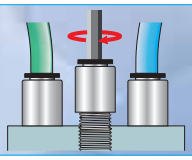
3114 female stud fitting BSPP and M5 thread

nickel-plated brass



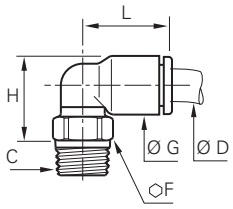
Ø D	C		E	F	H	kg
4	M5x0,8	3114 04 19	6,5	8	19,5	0,005
4	G1/8	3114 04 10	9,5	13	22,5	0,010
4	G1/4	3114 04 13	13,5	16	26,5	0,016
6	G1/8	3114 06 10	9,5	13	24,5	0,011
6	G1/4	3114 06 13	13,5	16	28,5	0,016
8	G1/8	3114 08 10	9,5	13	29	0,020
8	G1/4	3114 08 13	13,5	16	33	0,027
8	G3/8	3114 08 17	14	19	34	0,030
10	G1/4	3114 10 13	13,5	16	36	0,037
10	G3/8	3114 10 17	14	19	36	0,040
10	G1/2	3114 10 21	19,5	24	41,5	0,045
12	G3/8	3114 12 17	14	19	40	0,092
12	G1/2	3114 12 21	19,5	24	45,5	0,114
14	G3/8	3114 14 17	14	22	42,5	0,060

The internal hexagon and circular external shape ensure that models 3181 provide highly compact assembly. By using an Allen key, they can be installed in close proximity without the need to use a spanner.



3109 male stud elbow, BSPT thread

plastic glass renforced, nickel-plated brass stud, pre-coated thread

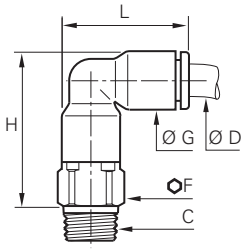


the body is orientable for positioning purposes

Ø D	C		F	G	H	L	kg
4	R1/8	3109 04 10	10	8,5	13,5	14	0,006
4	R1/4	3109 04 13	14	8,5	14	14	0,015
4	R3/8	3109 04 17	17	8,5	13,5	14	0,019
6	R1/8	3109 06 10	10	10,5	15,5	16	0,006
6	R1/4	3109 06 13	14	10,5	16	16	0,015
6	R3/8	3109 06 17	17	10,5	16	16	0,019
6	R1/2	3109 06 21	21	10,5	16,5	16	0,036
8	R1/8	3109 08 10	10	13,5	19	23	0,007
8	R1/4	3109 08 13	14	13,5	18	23	0,013
8	R3/8	3109 08 17	17	13,5	18	23	0,019
8	R1/2	3109 08 21	21	13,5	19,5	23	0,033
10	R1/8	3109 10 10	15	16	23	26,5	0,014
10	R1/4	3109 10 13	15	16	22	26,5	0,016
10	R3/8	3109 10 17	17	16	22	26,5	0,019
10	R1/2	3109 10 21	21	16	22	26,5	0,032
12	R1/4	3109 12 13	15	19	25	31	0,016
12	R3/8	3109 12 17	17	19	25	31	0,023
12	R1/2	3109 12 21	21	19	25	31	0,033
14	R3/8	3109 14 17	20	22	30,5	35,5	0,034
14	R1/2	3109 14 21	24	22	28,5	35,5	0,045

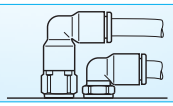
3129 extended male stud elbow, BSPT thread

plastic glass renforced, nickel-plated brass stud, pre-coated thread



the body is orientable for positioning purposes

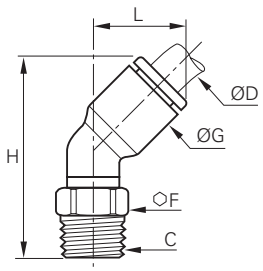
Ø D	C		F	G	H	L	kg
4	R1/8	3129 04 10	10	8,5	23	19	0,021
4	R1/4	3129 04 13	14	8,5	23,5	19	0,038
6	R1/8	3129 06 10	10	10,5	27	22,5	0,037
6	R1/4	3129 06 13	14	10,5	27,5	22,5	0,044
8	R1/8	3129 08 10	13	13,5	34,5	29,5	0,025
8	R1/4	3129 08 13	14	13,5	32,5	29,5	0,026
8	R3/8	3129 08 17	17	13,5	33	29,5	0,035
10	R1/4	3129 10 13	15	16	39,5	34,5	0,031
10	R3/8	3129 10 17	17	16	39,5	34,5	0,041
10	R1/2	3129 10 21	21	16	39,5	34,5	0,042
12	R1/4	3129 12 13	19	19	45,5	40,5	0,035
12	R3/8	3129 12 17	19	19	45,5	40,5	0,045
12	R1/2	3129 12 21	21	19	45,5	40,5	0,060
14	R3/8	3129 14 17	21	22	51,5	46,5	0,080
14	R1/2	3129 14 21	21	22	51,5	46,5	0,095



3129 is designed to allow overlap assembly with 3109 male stud elbow.

3113 45° male stud elbow, BSPT thread

plastic glass renforced, nickel-plated brass stud, pre-coated thread



the body is orientable for positioning purposes

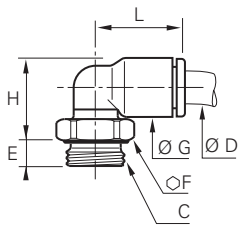
Ø D	C		F	G	H	L	kg
4	R1/8	3113 04 10	10	9	24,5	13	0,007
6	R1/8	3113 06 10	10	11	28	14,5	0,007
6	R1/4	3113 06 13	14	11	30	14,5	0,016
8	R1/8	3113 08 10	10	13,5	33,5	19,5	0,008
8	R1/4	3113 08 13	14	13,5	33,5	19,5	0,015
8	R3/8	3113 08 17	17	13,5	33,5	19,5	0,020
10	R1/4	3113 10 13	15	16	38,5	23	0,100
10	R3/8	3113 10 17	17	16	39	23	0,020
10	R1/2	3113 10 21	21	16	40,5	23	0,100
12	R1/4	3113 12 13	15	19	44	26	0,020
12	R3/8	3113 12 17	17	19	44	26	0,026
12	R1/2	3113 12 21	21	19	46	26	0,040

Prevents excessive angular loads on tubing which can cause kinking and distortion of the tube.

Legris offers a solution for all tubing configurations.

3199 male stud elbow, BSPP and metric thread

plastic body with integral «O» ring seal, nickel-plated brass stud

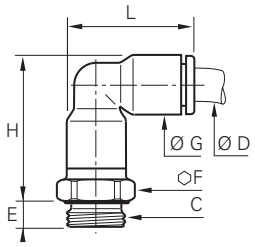


the body is orientable for positioning purposes

Ø D	C		E	F	G	H	L	kg
3	M3x0,5	3199 03 09	2,5	8	8,5	15	14,5	0,003
3	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	0,003
4	M5x0,8	3199 04 19	3,5	8	8,5	13,5	14	0,003
4	M7x1	3199 04 55	4,5	10	8,5	15	14	0,005
4	G1/8	3199 04 10	5	13	8,5	13	14	0,007
4	G1/4	3199 04 13	5,5	16	8,5	13	14	0,012
6	M5x0,8	3199 06 19	3,5	8	10,5	15,5	16	0,015
6	M7x1	3199 06 55	4,5	10	10,5	17,5	16	0,013
6	M10x1	3199 06 60	5	13	10,5	15	14	0,007
6	M12x1,5	3199 06 67	5,5	15	10,5	15	16	0,030
6	G1/8	3199 06 10	5	13	10,5	15	16	0,008
6	G1/4	3199 06 13	5,5	16	10,5	15	16	0,013
6	G3/8	3199 06 17	5,5	20	10,5	15,5	16	0,014
6	G1/2	3199 06 21	7	24	10,5	16	16	0,015
8	M10x1	3199 08 60	5	13	13,5	20,5	23	0,025
8	M12x1,5	3199 08 67	5,5	15	13,5	19,5	23	0,010
8	G1/8	3199 08 10	4,5	13	13,5	20,5	23	0,014
8	G1/4	3199 08 13	5,5	16	13,5	18,5	23	0,017
8	G3/8	3199 08 17	5,5	20	13,5	18,5	23	0,023
8	G1/2	3199 08 21	7	24	13,5	19	23	0,025
10	G1/4	3199 10 13	5,5	16	16	23,5	26,5	0,029
10	G3/8	3199 10 17	5,5	20	16	22	26,5	0,033
10	G1/2	3199 10 21	7,5	24	16	22	26,5	0,036
12	G1/4	3199 12 13	5,5	16	19	26,5	31	0,069
12	G3/8	3199 12 17	5,5	20	19	25	31	0,069
12	G1/2	3199 12 21	7	24	19	25	31	0,090
14	G3/8	3199 14 17	5,5	20	22	32,5	35,5	0,087
14	G1/2	3199 14 21	7	24	22	27	35,5	0,097

3169 extended male stud elbow, BSPP, M5 and M7 thread

plastic body with integral «O» ring seal, nickel-plated brass stud

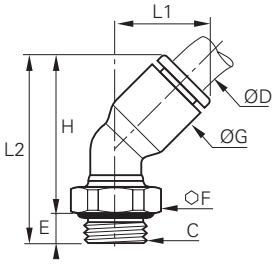


the body is orientable for positioning purposes

Ø D	C		E	F	G	H	L	kg
4	M5x0,8	3169 04 19	3,5	8	8,5	23	19	0,007
4	M7x1	3169 04 55	4,5	10	8,5	22,5	19	0,009
4	G1/8	3169 04 10	5	13	8,5	22,5	19	0,009
4	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	0,009
6	M7x1	3169 06 55	4,5	10	10,5	26	23	0,009
6	G1/8	3169 06 10	5	13	10,5	27	23	0,012
6	G1/4	3169 06 13	5,5	16	10,5	27	23	0,017
8	G1/8	3169 08 10	5	13	13,5	36	29,5	0,025
8	G1/4	3169 08 13	5,5	16	13,5	33	29,5	0,026
8	G3/8	3169 08 17	5,5	20	13,5	33	29,5	0,035
10	G1/4	3169 10 13	5,5	16	16	40,5	34,5	0,038
10	G3/8	3169 10 17	5,5	20	16	40,5	34,5	0,040
10	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	0,060
12	G3/8	3169 12 17	5,5	20	19	42	40,5	0,065
12	G1/2	3169 12 21	7,5	24	19	42	40,5	0,080
14	G3/8	3169 14 17	5,5	22	22	51	46,5	0,100
14	G1/2	3169 14 21	7,5	24	22	48,5	46,5	0,100

3133 45° male stud elbow, BSPP and M5 thread

plastic body with integral «O» ring seal, nickel-plated brass stud

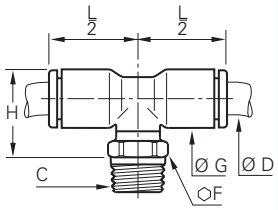


the body is orientable for positioning purposes

Ø D	C		E	F	G	H	L1	L2	kg
4	M5x0,8	3133 04 19	3,5	8	9	23	13	26,5	0,005
4	G1/8	3133 04 10	4,5	13	9	25	13	29,5	0,008
6	M5x0,8	3133 06 19	3,5	8	11	30	14,5	33,5	0,005
6	G1/8	3133 06 10	4,5	13	11	28,5	14,5	33	0,008
6	G1/4	3133 06 13	5,5	16	11	29,5	14,5	35	0,017
8	G1/8	3133 08 10	4,5	13	13,5	36	19,5	40,5	0,016
8	G1/4	3133 08 13	5,5	16	13,5	34,5	19,5	40	0,018
8	G3/8	3133 08 17	5,5	20	13,5	34,5	19,5	40	0,021
10	G1/4	3133 10 13	5,5	16	16	40,5	23	46	0,020
10	G3/8	3133 10 17	5,5	20	16	39	23	44,5	0,023
10	G1/2	3133 10 21	7	24	16	41	23	48	0,034
12	G1/4	3133 12 13	5,5	16	19	46	26	51,5	0,071
12	G3/8	3133 12 17	5,5	20	19	44,5	26	50	0,074
12	G1/2	3133 12 21	7	24	19	46	26	53	0,092

3108 male stud branch tee, BSPT thread

plastic body, nickel-plated brass stud with pre-coated thread

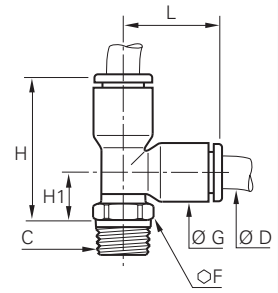


the body is orientable for positioning purposes

Ø D	C		F	G	H	L/2	kg
4	R1/8	3108 04 10	10	8,5	15,5	14	0,007
4	R1/4	3108 04 13	14	8,5	16	14	0,015
6	R1/8	3108 06 10	10	10,5	17,5	16	0,009
6	R1/4	3108 06 13	14	10,5	18	16	0,017
8	R1/8	3108 08 10	10	13,5	22	23	0,016
8	R1/4	3108 08 13	14	13,5	21	23	0,019
8	R3/8	3108 08 17	17	13,5	21	23	0,020
10	R1/4	3108 10 13	15	16	24	26,5	0,021
10	R3/8	3108 10 17	17	16	24	26,5	0,024
10	R1/2	3108 10 21	21	16	24	26,5	0,028
12	R1/4	3108 12 13	15	19	27	31	0,094
12	R3/8	3108 12 17	17	19	27	31	0,092
12	R1/2	3108 12 21	21	19	27	31	0,109
14	R3/8	3108 14 17	20	22	30,5	35,5	0,036
14	R1/2	3108 14 21	24	22	28,5	35,5	0,44

3103 male stud run tee, BSPT thread

plastic body, nickel-plated brass stud with pre-coated thread

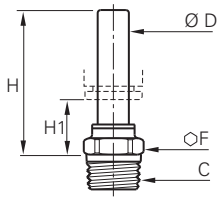


the body is orientable for positioning purposes

Ø D	C		F	G	H	H1	L	kg
4	R1/8	3103 04 10	10	8,5	23,5	9	14,5	0,007
4	R1/4	3103 04 13	14	8,5	24	9,5	14,5	0,010
6	R1/8	3103 06 10	10	10,5	27,5	10	17,5	0,009
6	R1/4	3103 06 13	14	10,5	28	10,5	17,5	0,017
8	R1/8	3103 08 10	10	13,5	35	12	23	0,016
8	R1/4	3103 08 13	14	13,5	34	11	23	0,019
8	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	0,021
10	R3/8	3103 10 17	17	16	40,5	14	26,5	0,024
10	R1/2	3103 10 21	21	16	40,5	14	26,5	0,028
12	R1/4	3103 12 13	15	19	46,5	15,5	31	0,094
12	R3/8	3103 12 17	17	19	46,5	15,5	31	0,092
12	R1/2	3103 12 21	21	19	46,5	15,5	31	0,109
14	R3/8	3103 14 17	20	22	55	19,5	35,5	0,113
14	R1/2	3103 14 21	24	22	52,5	17,5	35,5	0,114

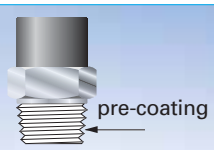
3121 male stud standpipe, BSPT thread

nylon probe, nickel-plated brass stud end with pre-coated thread



Ø D	C		F	H	H1	kg
4	R1/8	3121 04 10	10	26	14	0,005
4	R1/4	3121 04 13	14	26,5	14,5	0,013
6	R1/8	3121 06 10	10	28	14	0,005
6	R1/4	3121 06 13	14	28,5	14,5	0,013
8	R1/8	3121 08 10	10	29,5	11	0,006
8	R1/4	3121 08 13	14	28,5	10	0,008
8	R3/8	3121 08 17	17	28,5	10	0,012
10	R1/4	3121 10 13	15	36	15,5	0,010
10	R3/8	3121 10 17	17	36	15,5	0,012
10	R1/2	3121 10 21	21	36	15,5	0,022
12	R3/8	3121 12 17	17	36,5	12	0,022
12	R1/2	3121 12 21	21	36,5	12	0,043
14	R1/2	3121 14 21	21	41	13,5	0,043

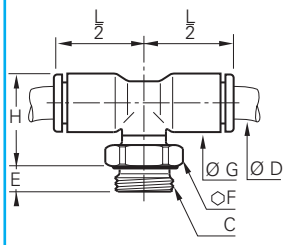
Pre-coating of part numbers 3108 - 3103 and 3121



All **taper threaded** LF 3000® male fittings are supplied with a **pre-coated thread** for immediate installation and re-use.

3198 male stud branch tee, BSPP and M5 thread

plastic body complete with integral 'O' ring seal, nickel-plated brass stud



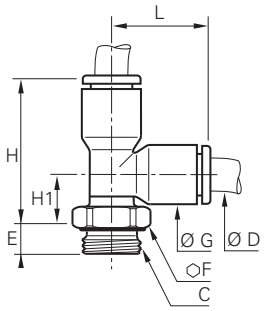
the body is orientable for positioning purposes

Ø D	C		E	F	G	H	L/2	kg
4	M5X0,8	3198 04 19	3,5	8	8,5	17,5	14	0,004
4	G1/8	3198 04 10	5	13	8,5	15	14	0,008
4	G1/4	3198 04 13	5,5	16	8,5	15	14	0,013
6	M5X0,8	3198 06 19	3,5	8	10,5	19,5	16	0,006
6	G1/8	3198 06 10	5	13	10,5	17	16	0,010
6	G1/4	3198 06 13	5,5	16	10,5	17	16	0,015
8	G1/8	3198 08 10	4,5	13	13,5	23,5	23	0,017
8	G1/4	3198 08 13	5,5	16	13,5	21,5	23	0,020
8	G3/8	3198 08 17	5,5	20	13,5	21,5	23	0,023
10	G1/4	3198 10 13	5,5	16	16	26	26,5	0,021
10	G3/8	3198 10 17	5,5	20	16	24	26,5	0,024
10	G1/2	3198 10 21	7,5	24	16	24	26,5	0,039
12	G1/4	3198 12 13	5,5	16	19	29	31	0,088
12	G3/8	3198 12 17	5,5	20	19	27	31	0,081
12	G1/2	3198 12 21	7	24	19	27	31	0,092
14	G3/8	3198 14 17	5,5	20	22	32,5	35,5	0,036
14	G1/2	3198 14 21	7	24	22	27	35,5	0,044

Due to the low profile body, we recommend the use of an extra-flat spanner.

3193 male stud run tee, BSPP and M5 thread

plastic body complete with integral 'O' ring seal, nickel-plated brass stud

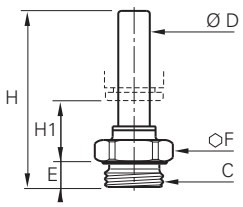


the body is orientable for positioning purposes

Ø D	C		E	F	G	H	H1	L	kg
4	M5x0,8	3193 04 19	3,5	8	8,5	26	11,5	14,5	0,004
4	G1/8	3193 04 10	5	13	8,5	23	8,5	14,5	0,008
4	G1/4	3193 04 13	5,5	16	8,5	23	8,5	14,5	0,013
6	M5x0,8	3193 06 19	3,5	8	10,5	29,5	12,5	17,5	0,007
6	G1/8	3193 06 10	5	13	10,5	27	10	17,5	0,010
6	G1/4	3193 06 13	5,5	16	10,5	27	10	17,5	0,015
8	G1/8	3193 08 10	4,5	13	13,5	36,5	14	23	0,017
8	G1/4	3193 08 13	5,5	16	13,5	34,5	12	23	0,020
8	G3/8	3193 08 17	5,5	20	13,5	34,5	12	23	0,023
10	G1/4	3193 10 13	5,5	16	16	42	15,5	26,5	0,021
10	G3/8	3193 10 17	5,5	20	16	40,5	14	26,5	0,023
10	G1/2	3193 10 21	7,5	24	16	40,5	14	26,5	0,039
12	G1/4	3193 12 13	5,5	16	19	48	17	31	0,087
12	G3/8	3193 12 17	5,5	20	19	46,5	15,5	31	0,088
12	G1/2	3193 12 21	7	24	19	46,5	15,5	31	0,091
14	G3/8	3193 14 17	5,5	20	22	56,5	21,5	35,5	0,110
14	G1/2	3193 14 21	7	24	22	51	16	35,5	0,120

3131 male stud standpipe, BSPP and M5 thread

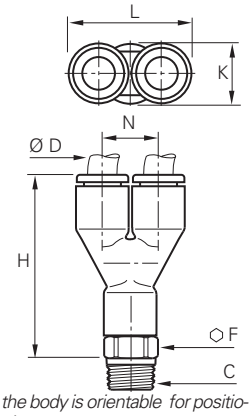
nylon stem, nickel-plated brass stud with integral 'O' ring seal



Ø D	C		E	F	H	H1	kg
4	M5x0,8	3131 04 19	3,5	8	31	16	0,002
4	G1/8	3131 04 10	5	13	30	13,5	0,006
4	G1/4	3131 04 13	5,5	16	31	13,5	0,011
6	G1/8	3131 06 10	5	13	32	13,5	0,006
6	G1/4	3131 06 13	5,5	16	33	13,5	0,011
8	G1/8	3131 08 10	5	13	35,5	12,5	0,006
8	G1/4	3131 08 13	5,5	16	34,5	10,5	0,012
8	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
10	G3/8	3131 10 17	5,5	20	41,5	15,5	0,015
10	G1/2	3131 10 21	7,5	24	41,5	15,5	0,026
12	G3/8	3131 12 17	5,5	20	42	12	0,052
12	G1/2	3131 12 21	7	24	43,5	12	0,056
14	G3/8	3131 14 17	5,5	20	46,5	14	0,039
14	G1/2	3131 14 21	7	24	48	13,5	0,049

3148 «Y» piece with male BSPT thread

plastic body
nickel-plated brass stud
with pre-coating

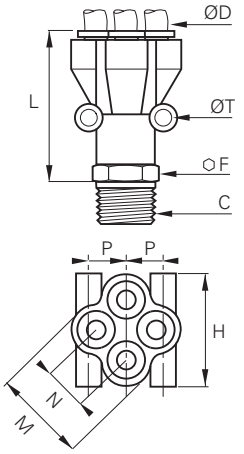


the body is orientable for positioning purposes

Ø D	C		F	H	K	L	N	kg
4	R1/8	3148 04 10	10	32,5	8,5	17,5	9	0,010
4	R1/4	3148 04 13	14	33	8,5	17,5	9	0,018
6	R1/8	3148 06 10	10	39,5	10,5	21,5	11	0,012
6	R1/4	3148 06 13	14	40	10,5	21,5	11	0,019
8	R1/8	3148 08 10	13	56,5	13,5	28	14,5	0,033
8	R1/4	3148 08 13	14	55,5	13,5	28	14,5	0,037
8	R3/8	3148 08 17	16	48,5	13,5	28	14,5	0,040
10	R1/4	3148 10 13	14	60	19	39	20	0,040
10	R3/8	3148 10 17	16	60,5	19	39	20	0,043
10	R1/2	3148 10 21	24	61	19	39	20	0,045
12	R3/8	3148 12 17	19	66	19	39	20	0,045
12	R1/2	3148 12 21	21	66	19	39	20	0,047

3112 double «Y» piece with male BSPT thread

plastic body
nickel-plated brass stud
with pre-coating

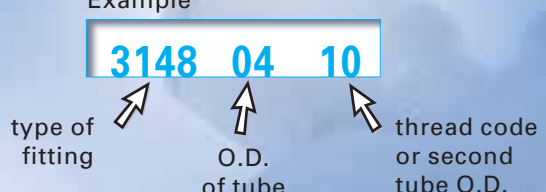


Ø D	C		F	H	L	M	N	P	T	kg
4	R1/8	3112 04 10	13	25,5	35,5	21	10	8,5	3,7	0,033
4	R1/4	3112 04 13	14	25,5	34	21	10	8,5	3,7	0,046
6	R1/8	3112 06 10	19	31,5	87,5	26,5	12	10	3,7	0,053
6	R1/4	3112 06 13	19	31,5	87,5	26,5	12	10	3,7	0,066

Identification
Part numbers have been chosen by a method of mnemonics. Each LF 3000® fitting is identified by :

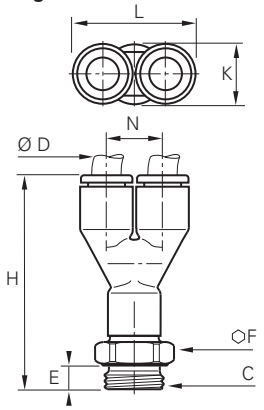
- product type
- the outside diameter of the tube
- the thread code or second tube diameter

Example



3158 «Y» piece, BSPP thread

plastic body, nickel-plated brass stud, with integral 'O' ring seal

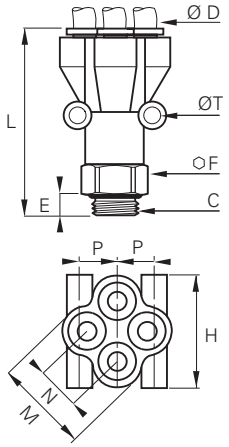


The body is orientable for positioning purposes

Ø D	C		E	F	H	K	L	N	kg
4	M5x0,8	3158 04 19	3,5	8	32,5	8,5	17,5	9	0,010
4	G1/8	3158 04 10	5	13	32	8,5	17,5	9	0,010
4	G1/4	3158 04 13	5,5	16	32	8,5	17,5	9	0,015
6	M5x0,8	3158 06 19	3,5	10	39,5	10,5	21,5	11	0,011
6	G1/8	3158 06 10	5	13	39	10,5	21,5	11	0,014
6	G1/4	3158 06 13	5,5	16	39	10,5	21,5	11	0,019
8	G1/8	3158 08 10	5	13	56	13,5	28	14,5	0,033
8	G1/4	3158 08 13	5,5	16	55	13,5	28	14,5	0,039
8	G3/8	3158 08 17	6	19	54	13,5	28	14,5	0,040
10	G1/4	3158 10 13	5,5	16	63,5	16	33	17	0,040
10	G3/8	3158 10 17	6	20	63,5	16	33	17	0,043
10	G1/2	3158 10 21	7	24	65	16	33	17	0,045
12	G3/8	3158 12 17	6	20	68	19	39	20	0,045
12	G1/2	3158 12 21	7	24	70	19	39	20	0,047

3132 male double ''Y'' piece, BSPP thread

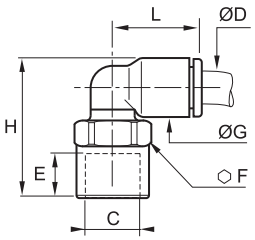
plastic body, nickel-plated brass stud, with integral 'O' ring seal



Ø D	C		E	F	H	L	M	N	P	T	kg
4	G1/8	3132 04 10	5	13	25,5	41	21	10	8,5	3,7	0,039
4	G1/4	3132 04 13	5,5	16	25,5	40	21	10	8,5	3,7	0,046
6	G1/8	3132 06 10	5	19	31,5	52,5	26,5	12	10	3,7	0,066
6	G1/4	3132 06 13	5,5	19	31,5	53,5	26,5	12	10	3,7	0,053

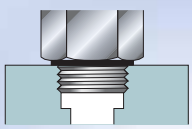
3192 female stud elbow, BSPP thread

plastic body, nickel-plated brass female stud



The body is orientable for positioning purposes

Ø D	C		E	F	G	H	L	kg
4	G1/8	3192 04 10	8,5	13	8,5	23	14	0,009
4	G1/4	3192 04 13	11,5	16	8,5	27	14	0,012
6	G1/8	3192 06 10	8,5	13	10,5	25	16	0,011
6	G1/4	3192 06 13	11,5	16	10,5	29	16	0,011
8	G1/8	3192 08 10	8,5	13	13,5	28	23	0,014
8	G1/4	3192 08 13	11,5	16	13,5	32	23	0,017
8	G3/8	3192 08 17	12	19	13,5	33	23	0,022
10	G1/4	3192 10 13	11	16	16	34,5	26,5	0,029
10	G3/8	3192 10 17	12	19	16	35	26,5	0,034
10	G1/2	3192 10 21	16	24	16	41	26,5	0,037
12	G1/4	3192 12 13	11	16	19	38	30,5	0,040
12	G3/8	3192 12 17	12	19	19	38,5	30,5	0,041
12	G1/2	3192 12 21	16	24	19	43,5	30,5	0,045

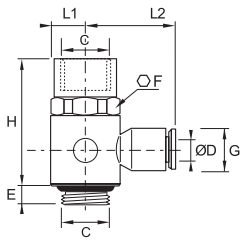


All LF 3000® fittings with male **BSPP and metric threads** are supplied complete with **an integral 'O' ring seal.** This permits instant assembly of the fitting, without preparation of the thread, and provides a uniform assembled height to the fitting.

full flow banjos

3124 single banjo with female BSPP bolt, M5 and BSPP thread

plastic body with integral 'O' ring seal, nickel-plated brass bolt



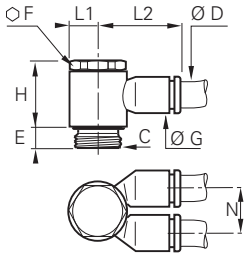
Ø D	C		E	F	G	H	L1	L2	kg
4	M5x0,8	3124 04 19	4	8	8,5	19	5	16	0,006
4	G1/8	3124 04 10	4	13	8,5	25,5	7	18,5	0,012
6	G1/4	3124 06 13	5,5	17	10,5	33	9	22	0,031
8	G3/8	3124 08 17	5,5	20	13,5	37,5	11	29	0,056

This is a useful component allowing :

- the mounting of function fittings (sensors, flow controllers and pressure reducers).
- the tapping off of a pneumatic supply from a pneumatic cylinder port .

3149 twin banjo, BSPP and M5 thread

plastic body with integral 'O' ring seal, nickel-plated brass bolt



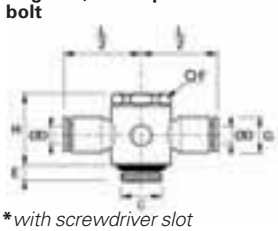
with screwdriver slot for ease of assembly

Ø D	C		E	F	G	H	L1	L2	N	kg
4	M5x0,8	3149 04 19*	4	-	8,5	13	4,5	16	9	0,008
4	G1/8	3149 04 10	4	13	10,5	16,5	7	18,5	11,5	0,013
6	G1/8	3149 06 10	4	13	10,5	16,5	7	18,5	11,5	0,013
6	G1/4	3149 06 13	5,5	17	13,5	21	9,5	27	14,5	0,034
8	G1/4	3149 08 13	5,5	17	13,5	21	9,5	27	14,5	0,034
8	G3/8	3149 08 17	5,5	20	16	24,5	11	31	17	0,066
10	G3/8	3149 10 17	5,5	20	16	24,5	11	31	17	0,066

This fitting provides 2 parallel outlets on the same side.

3119 double banjo, BSPP and M5 thread

plastic body with integral 'O' ring seal, nickel-plated brass bolt



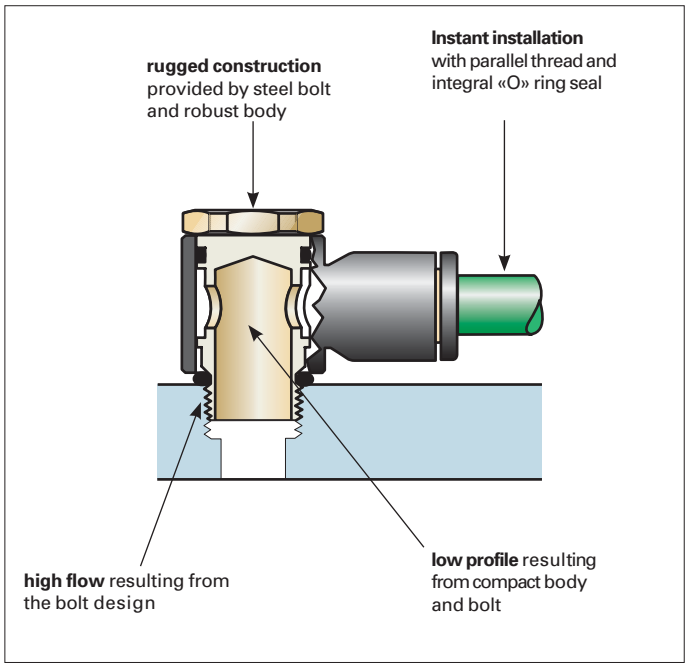
with screwdriver slot for ease of assembly

Ø D	C		E	F	G	H	L/2	kg
4	M5x0,8	3119 04 19*	4	-	8,5	13	16	0,005
4	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
6	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
8	G3/8	3119 08 17	5,5	20	16	24,5	30,5	0,052
10	G3/8	3119 10 17	5,5	20	16	24,5	31	0,045

Legris **packaging boxes** ensure perfect **protection** of the contents. They are designed to answer the user's requirements, with :

- **immediate** visual **identification** - each model has clear marking which indicates the part number and the corresponding technical drawing.
- **easy** storage
- a **bar code**
- an **impregnable** system of **opening/closing**
- **recyclable** material

full flow banjos



Specification includes :

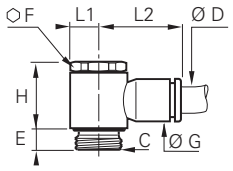
- **parallel and metric threads**, with an integral «O» ring seal, offer the same advantages as those found on male stud fittings ; instant assembly, security and consistent assembled height.
- **compact** and **low profile** for better space utilisation and accessibility.
- **full flow**, equivalent to that of male stud elbows.

Maximum tightening torque for 3118 range

Thread	M3x0,5	M5x0,8	G1/8"	G1/4"	G3/8"	G1/2
m.da N	0,05	0,1	0,4	0,5	0,6	0,7

3118 single banjo, BSPP and metric thread

plastic body, nickel-plated brass bolt complete with integral sealing 'O' ring

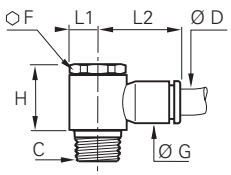


**with screwdriver slot for ease of assembly*

Ø D	C		E	F	G	H	L1	L2	kg
3	M3x0,5	3118 03 09*	3	-	8,5	13	5	16	0,007
3	M5x0,8	3118 03 19*	4	-	8,5	13	5	16	0,007
4	M5x0,8	3118 04 19*	4	-	8,5	13	5	16	0,007
4	G1/8	3118 04 10	4	13	8,5	17	7	18,5	0,010
6	M5x0,8	3118 06 19*	4	-	10,5	13	7	18,5	0,008
6	G1/8	3118 06 10	4	13	10,5	17	7	20	0,011
6	G1/4	3118 06 13	5,5	17	10,5	21	9	22	0,015
8	G1/8	3118 08 10	4	13	13,5	16,5	7	25	0,022
8	G1/4	3118 08 13	5,5	17	13,5	21	9	27	0,030
8	G3/8	3118 08 17	5,5	20	13,5	24,5	11	29	0,049
10	G1/4	3118 10 13	5,5	17	16	21	9	29	0,058
10	G3/8	3118 10 17	5,5	20	16	24,5	11	31	0,061
10	G1/2	3118 10 21	8	25	19	27,5	13,5	36,5	0,085
12	G3/8	3118 12 17	5,5	20	19	24,5	11,5	34,5	0,067
12	G1/2	3118 12 21	8	25	19	27,5	13,5	36,5	0,072

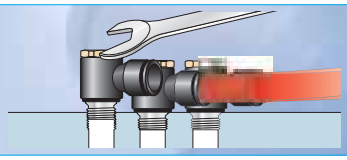
3018 single banjo, BSPT thread

plastic body, nickel-plated brass bolt with precoated thread

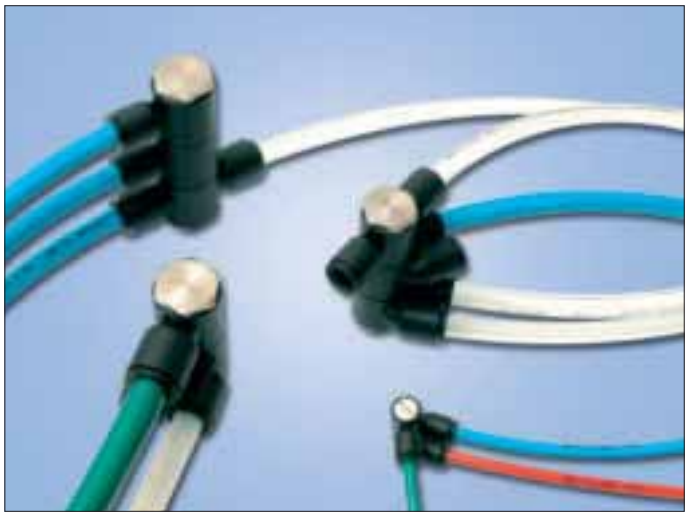


Ø D	C		F	G	H	L1	L2	kg
4	R1/8	3018 04 10	13	8,5	18,5	7	18,5	0,010
6	R1/8	3018 06 10	13	10,5	18,5	7	20	0,011
6	R1/4	3018 06 13	17	10,5	22,5	9,5	22	0,015
8	R1/8	3018 08 10	13	13,5	18,5	7	25	0,022
8	R1/4	3018 08 13	17	13,5	22,5	9,5	27	0,030
8	R3/8	3018 08 17	21	13,5	26,5	11	29	0,049
10	R1/4	3018 10 13	17	16	22,5	9,5	29	0,058
10	R3/8	3018 10 17	21	16	26,5	11	31	0,061
12	R1/4	3018 12 13	21	19	26,5	11	34,5	0,065
12	R3/8	3018 12 17	21	19	26,5	11	34,5	0,067
12	R1/2	3018 12 21	25	19	30	13,5	37	0,090

Legris banjos allow **easy access**, even when connections are close together.



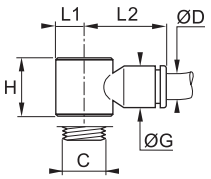
banjo bodies for modular construction



By stacking 2 and 3 compact bodies on top of each other using one bolt, a wide range of permutations of fittings, modules and manifolds can be constructed. Between 2 to 6 outlets in one modular construction are possible; the tube diameters may be different or the same, thus offering wide flexibility in the creation of personalised designs.

3538 single banjo bodies

plastic body

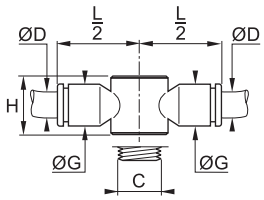


** brass body*

ØD	C			G	H	L1	L2	kg
3	M5x0,8	3538 03 19		8,5	13	5	16	0,004
4	M5x0,8	3538 04 19		8,5	13	5	16	0,004
4	G1/8	3538 04 10		10,5	14,5	7	18,5	0,006
6	M5x0,8	3538 06 19		11	13	5	18,5	0,004
6	G1/8	3538 06 10		10,5	14,5	7	20	0,007
6	G1/4	3538 06 13		10,5	18	9,5	22	0,009
8	G1/8	3538 08 10		13,5	14,5	7	25	0,015
8	G1/4	3538 08 13		13,5	18	9,5	27	0,020
8	G3/8	3538 08 17		13,5	21,5	11,5	29	0,020
10	G1/4	3538 10 13		16	18	9,5	29	0,035
10	G3/8	3538 10 17		16	21,5	11,5	31	0,035
10	G1/2	3538 10 21		19	22,5	13,5	36,5	0,035
12	G3/8	3538 12 17		19	21,5	11,5	34,5	0,040
12	G1/2	3538 12 21		19	22,5	13,5	36,5	0,040

3539 double banjo bodies

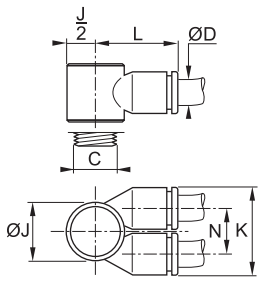
plastic body



ØD	C			G	H	L/2	kg
4	M5x0,8	3539 04 19		8,5	13	16	0,007
4	G1/8	3539 04 10		10,5	14,35	20	0,008
6	G1/8	3539 06 10		10,5	14,35	20	0,011
6	G1/4	3539 06 13		13,5	18	26	0,012
8	G1/4	3539 08 13		13,5	18	27	0,017
8	G3/8	3539 08 17		16	21,5	30,5	0,025
10	G3/8	3539 10 17		16	21,5	31	0,025

3549 twin banjo bodies

plastic body



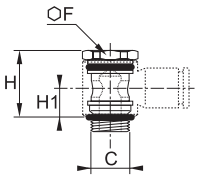
ØD	C			J	K	L	N	kg
4	M5x0,8	3549 04 19		10	17,5	15,5	9	0,007
4	G1/8	3549 04 10		14	22,5	20	12	0,008
4	G1/4	3549 04 13		18,5	28	25	14,5	0,011
6	G1/8	3549 06 10		14	22,5	20,5	12	0,011
6	G1/4	3549 06 13		18,5	28	25	14,5	0,012
6	G3/8	3549 06 17		22,5	33	28,5	17	0,022
8	G1/4	3549 08 13		18,5	28	26	14,5	0,017
8	G3/8	3549 08 17		22,5	33	29,5	17	0,025
10	G3/8	3549 10 17		22,5	33	29,5	17	0,025

This model allows two outlets to be on the same side and to run parallel to each other.

single, double and triple bodied banjo bolts with full passage for modular construction

3527 single banjo bolts, BSPP and M5 thread

'O' ring seal, nickel-plated brass stud



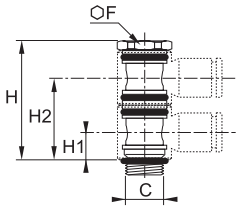
full bore

C		F	H	H1	kg
M5x0,8	3527 00 19*		17	7,5	0,003
G1/8	3527 00 10	13	17	7,5	0,014
G1/4	3527 00 13	17	21	9,5	0,024
G3/8	3527 00 17	20	24,5	11	0,038
G1/2	3527 00 21	25	27,5	11,5	0,050

**with screwdriver slot for ease of assembly*

3528 stacking banjo for 2 body high modules BSPP and M5 thread

'O' ring seal, nickel-plated brass stud



full bore

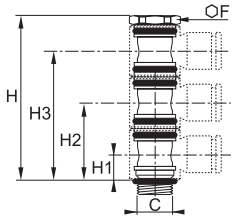
C		F	H	H1	H2	kg
M5x0,8	3528 00 19*		24,5	7,5	18,5	0,004
G1/8	3528 00 10	13	31	7,5	22	0,020
G1/4	3528 00 13	17	39	9,5	27,5	0,029
G3/8	3528 00 17	20	46	11	32,5	0,048

**with screwdriver slot for ease of assembly*

Designed for use with 2 banjo bodies

3529 stacking banjo for 3 body high modules BSPP thread

'O' ring seal, nickel-plated brass stud



full bore

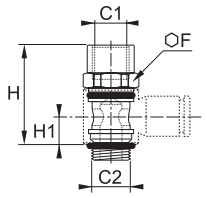
C		F	H	H1	H2	H3	kg
G1/8	3529 00 10	13	45,5	7,5	22	36	0,026
G1/4	3529 00 13	17	54	9,5	27,5	45,5	0,036
G3/8	3529 00 17	20	67,5	11	32,5	54	0,059

**with screwdriver slot for ease of assembly*

Designed for use with 3 banjo bodies

3524 female threaded banjo bolts, BSPP and M5 thread

'O' ring seal, nickel-plated brass stud

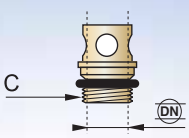


full flow

C1	C2		F	H	H1	kg
M5x0,8	M5x0,8	3524 00 19	8	17	7,5	0,004
G1/8	G1/8	3524 00 10	13	24,5	7,5	0,017
G1/4	G1/4	3524 00 13	17	33	9,5	0,026
G3/8	G3/8	3524 00 17	20	37,5	11	0,045
G1/2	G1/2	3524 00 21	25	42	11,5	0,057

Banjo bolts 3527 – 3528 - 3529 and 3524 are only useable in association with the corresponding bodies for modular construction 3538 - 3539 and 3549

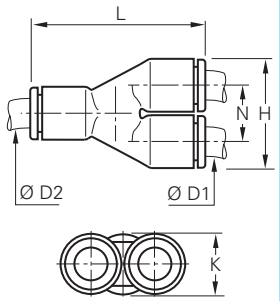
Thread and passage size for part numbers, 3527, 3528, 3529, and 3524



C	M5x0,8	G1/8	G1/4	G3/8	G1/2
DN	2,5	5,5	8,5	11	13

3140 single «Y» piece - equal and unequal

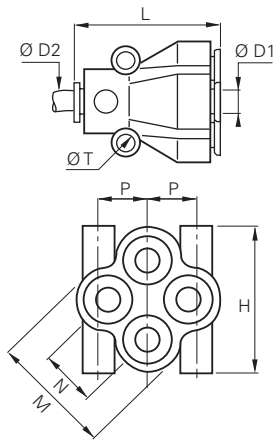
plastic body



ØD1	ØD2		H	K	L	N	kg
4	4	3140 04 00	17,5	8,5	28,5	9	0,003
6	6	3140 06 00	21,5	10,5	35	11	0,005
8	8	3140 08 00	28	13,5	45	14,5	0,009
10	10	3140 10 00	33	16	53	17	0,015
12	12	3140 12 00	39	19	57	17	0,028
4	6	3140 04 06	17,5	10,5	33	9	0,004
6	8	3140 06 08	22,5	13,5	41	11,5	0,007
8	10	3140 08 10	28	16	47	14,5	0,011
10	12	3140 10 12	33	19	57	17	0,028

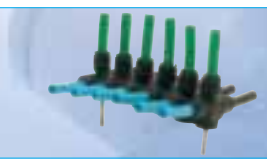
3144 multiple «Y» piece - equal and unequal

plastic body



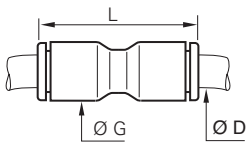
ØD1	ØD2		H	L	M	N	P	T	kg
4	4	3144 04 04	25,5	30,5	21	10	8,5	3,7	0,027
6	6	3144 06 06	31,5	37,5	26,5	12	10	3,7	0,043
4	6	3144 04 06	25,5	30,5	21	10	8,5	3,7	0,027
6	8	3144 06 08	31,5	38	26,5	12	10	3,7	0,045

LF 3000® tube to tube fittings can be fitted in multiple strips by the use of Legris tube clips – please refer to page A30.



3106 equal tube/tube connector

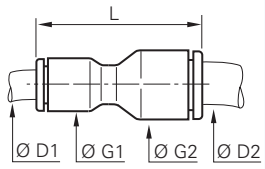
plastic body



ØD		G	L	kg
3	3106 03 00	8,5	25	0,002
4	3106 04 00	8,5	25	0,001
6	3106 06 00	10,5	28,5	0,003
8	3106 08 00	13,5	38	0,006
10	3106 10 00	16	42	0,006
12	3106 12 00	19	50,5	0,009
14	3106 14 00	22	56	0,022

3106 unequal tube/tube connector

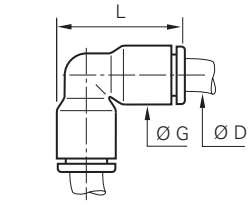
plastic body



ØD1	ØD2		G1	G2	L	kg
3	4	3106 03 04	8,5	8,5	25	0,002
4	6	3106 04 06	8,5	11	28	0,002
4	8	3106 04 08	13,5	13,5	38	0,006
6	8	3106 06 08	13,5	13,5	38	0,009
6	10	3106 06 10	16	16	42	0,009
6	10	3106 06 56	13,5	13,5	38	0,009
8	10	3106 08 10	16	16	42	0,010
8	12	3106 08 12	19	19	50,5	0,031
10	12	3106 10 12	19	19	50,5	0,022
12	12	3106 12 62	22	22	57	0,027
12	14	3106 12 14	22	22	56	0,024
12	14	3106 60 10	22	19	50,5	0,009

3102 equal elbow

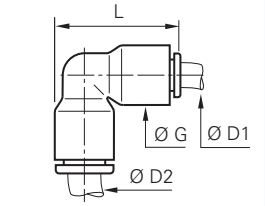
plastic body



ØD		G	L	kg
4	3102 04 00	8,5	19	0,002
6	3102 06 00	10,5	22,5	0,004
8	3102 08 00	13,5	29,5	0,004
10	3102 10 00	16	34,5	0,009
12	3102 12 00	19	40,5	0,016
14	3102 14 00	22	46,5	0,023

3102 unequal elbow

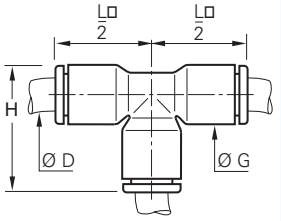
plastic body



ØD1	ØD2		G	L	kg
4	6	3102 04 06	10,5	22,5	0,002
6	8	3102 06 08	13,5	29,5	0,009
8	10	3102 08 10	16	34,5	0,031
10	12	3102 10 12	19	40,5	0,022

3104 equal tee

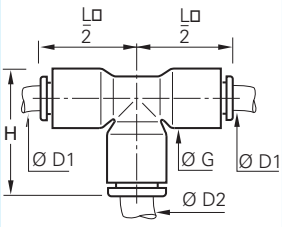
plastic body



ØD		G	H	L/2	kg
3	3104 03 00	8,5	19	14,5	0,004
4	3104 04 00	8,5	19	14,5	0,004
6	3104 06 00	10,5	22,5	17,5	0,006
8	3104 08 00	13,5	29,5	23	0,006
10	3104 10 00	16	34,5	26,5	0,015
12	3104 12 00	19	40,5	31	0,014
14	3104 14 00	22	46	35,5	0,034

3104 unequal tee

plastic body

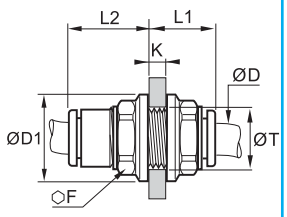


ØD1	ØD2		G	H	L/2	kg
4	6	3104 04 06	10,5	22,5	17,5	0,007
6	4	3104 06 04	10,5	22,5	17,5	0,006
6	8	3104 06 08	13,5	29,5	23	0,015
8	6	3104 08 06	13,5	29,5	23	0,012
8	10	3104 08 10	16	34,5	26,5	0,021
10	8	3104 10 08	16	34,5	26,5	0,018
10	12	3104 10 12	19	40,5	31	0,036
12	10	3104 12 10	19	40,5	31	0,030
14	8	3104 14 08	22	46	35,5	0,025

bulkhead connector fittings

3116 equal bulkhead connector

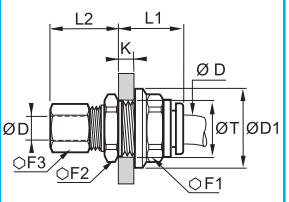
plastic body



ØD	ØD1		F	K maxi	L1	L2	T mini	kg
4	16	3116 04 00	13	5,5	15	10	10,5	0,018
6	18	3116 06 00	15	8,5	18	10,5	12,5	0,029
8	21,5	3116 08 00	18	14,5	25	13,5	15,5	0,037
10	26	3116 10 00	22	14,5	27,5	15,5	18,5	0,084
12	31	3116 12 00	26	18,5	33	18	22,5	0,102
14	34,5	3116 14 00	29	20,5	37,5	20,5	25,5	0,135

3146 mixed bulkhead connector

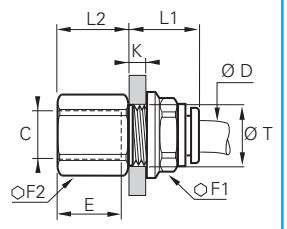
nickel-plated brass body



ØD	ØD1		F1	F2	F3	K maxi	L1	L2	T mini	kg
4	16	3146 04 00	13	13	10	7	17,5	17,5	10,5	0,021
6	18	3146 06 00	15	17	13	8	19	18	12,5	0,030
8	21,5	3146 08 00	18	19	14	8	20,5	20,5	15,5	0,038
10	26	3146 10 00	22	22	19	8,5	23	24,5	18,5	0,071
12	31	3146 12 00	26	25	22	8,5	27	25	22,5	0,086
14	34,5	3146 14 00	29	29	24	10,5	27	27	25,5	0,125

3136 female bulkhead connector, BSPP thread

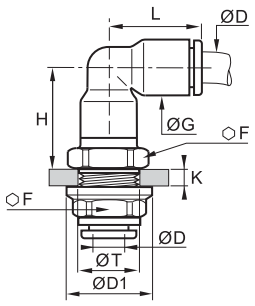
nickel-plated brass body



ØD	C		E	F1	F2	K maxi	L1	L2	T mini	kg
4	G1/8	3136 04 10	9,5	13	13	7	17	11,5	10,5	0,025
4	G1/4	3136 04 13	13,5	13	16	7	17	15,5	10,5	0,028
6	G1/8	3136 06 10	9,5	15	15	8	19	10,5	12,5	0,035
6	G1/4	3136 06 13	13,5	15	17	7	19	15,5	12,5	0,040
6	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	0,048
8	G1/4	3136 08 13	13,5	18	17	8	20,5	14,5	15,5	0,055
10	G3/8	3136 10 17	14	22	22	8,5	23	16	18,5	0,073
12	G3/8	3136 12 17	14	26	25	8,5	27	16	22,5	0,092
12	G1/2	3136 12 21	19,5	26	27	8,5	27	21,5	22,5	0,118

3139 equal bulkhead elbow

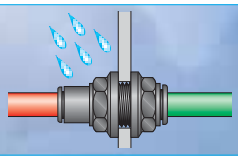
plastic body, nickel-plated thread



The body is orientable for positioning purposes

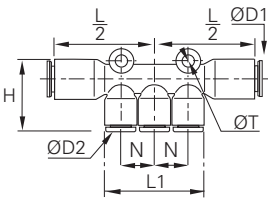
ØD	ØD1		F	G	H	K maxi	L	T mini	kg
4	16	3139 04 00	13	8,5	17	6,5	14,5	10,5	0,019
6	18	3139 06 00	15	10,5	19,5	7	17,5	12,5	0,024
8	21,5	3139 08 00	18	13,5	24	8	23	15,5	0,035
10	26	3139 10 00	22	16	28	8,5	26	18,5	0,081
12	31	3139 12 00	26	19	33	8,5	31	22,5	0,123
14	34,5	3139 14 00	29	25,5	37,5	10,5	36	25,5	0,143

All plastic nuts are fitted with an integral O-ring to optimise sealing to a bulkhead wall.



3304 unequal multiple tee, with fixing holes

plastic body

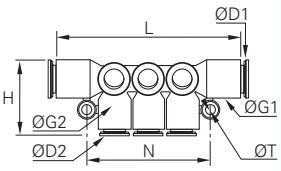


ØD1	ØD2		H	L1	L/2	N	T	kg
6	4	3304 06 04	24,5	23	37	11,5	4,2	0,023
8	4	3304 08 04	24,5	23	37	11,5	4,2	0,031
8	6	3304 08 06	24,5	23	37	11,5	4,2	0,033
10	6	3304 10 06	36	29	40,5	14,5	4,2	0,058
10	8	3304 10 08	36	29	40,5	15,5	4,2	0,060

ØT = i.d. of fixing hole

3306 unequal multiple elbow, with fixing holes

plastic body

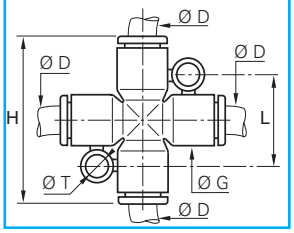


ØD1	ØD2		G1	G2	H	L	N	T	kg
6	4	3306 06 04	13,5	11	25	72	43	4,2	0,018
8	4	3306 08 04	13,5	11	25	73	43	4,2	0,032
8	6	3306 08 06	13,5	11	25	73	43	4,2	0,022
10	6	3306 10 06	16	13,5	31	84	52	4,2	0,056
10	8	3306 10 08	16	13,5	31,5	84	52	4,2	0,036

ØT = i.d. of fixing hole

3107 equal cross, with fixing holes

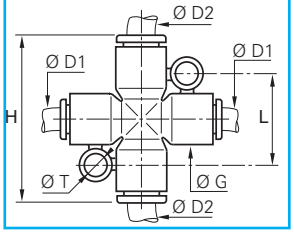
plastic body



ØD		G	H	L	T	kg
4	3107 04 00	11	36	20	4,2	0,010
6	3107 06 00	11	36	20	4,2	0,010
8	3107 08 00	13,5	46	22,5	4,2	0,020

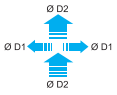
3107 unequal cross, with fixing holes

plastic body



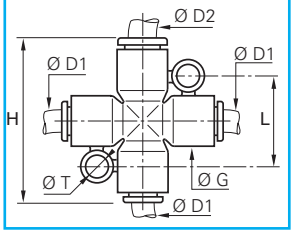
ØD1	ØD2		G	H	L	T	kg
4	6	3107 04 06	11	36	20	4,2	0,010
6	8	3107 06 08	13,5	46	22,5	4,2	0,020

This model provides 2 outlets ØD1 of equal diameters and 2 outlets ØD2 of a different diameter. ØT = i.d. of fixing hole



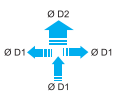
3107 unequal cross, with fixing holes

plastic body



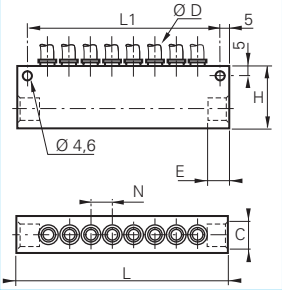
ØD1	ØD2		G	H	L	T	kg
4	6	3107 06 04	11	36	20	4,2	0,010
6	8	3107 08 06	13,5	46	22,5	4,2	0,020

This model provides 3 outlets ØD1 of equal diameters and 1 outlet ØD2 of a different diameter. ØT = i.d. of fixing hole



3310 manifold with LF 3000® push-in connection

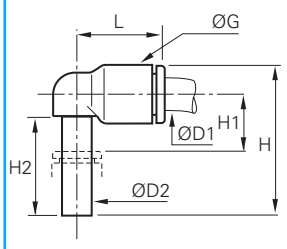
anodized aluminium



ØD	C		Number of outlets	E	H	L	L1	N	kg
4	G1/4	3310 04 13	8	10	33	114	104	11,5	0,163
6	G1/4	3310 06 13	8	10	33	114	104	12,5	0,163
8	G3/8	3310 08 17	6	12	33	114	104	15	0,163
10	G1/2	3310 10 21	6	16	48	145,5	135,5	17,1	0,207
12	G1/2	3310 12 21	6	16	45	158	148	20,5	0,225

3182 plug-in plug-in equal and unequal compact elbow with plastic tailpiece

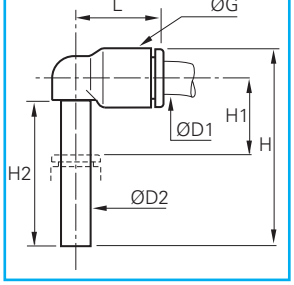
plastic body



ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3182 04 00	8,5	23	6	15,5	14	0,003
6	6	3182 06 00	10,5	26,5	7	17	16	0,003
8	8	3182 08 00	13,5	33,5	8	21,5	23	0,004
10	10	3182 10 00	16	39	9,5	24,5	23,5	0,009
12	12	3182 12 00	19	44,5	10	27,5	31	0,012
4	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	0,003
6	8	3182 06 08	13,5	33,5	8	21,5	22	0,004
8	10	3182 08 10	16	39	9,5	24,5	26,5	0,009
10	12	3182 10 12	19	44,5	10	27,5	31	0,012

3184 plug-in extended equal and unequal elbow with plastic tailpiece

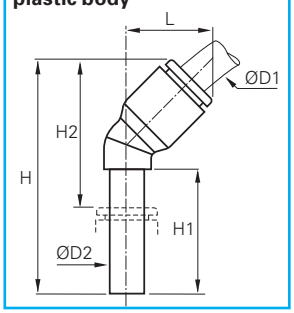
plastic body



ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3184 04 00	8,5	32,5	15,5	25	14	0,005
6	6	3184 06 00	10,5	38,5	19	29	16	0,005
8	8	3184 08 00	13,5	49	23,5	37	23	0,006
10	10	3184 10 00	16	56	26,5	41,5	26,5	0,011
12	12	3184 12 00	19	62,5	28	45,5	31	0,014
4	6	3184 04 06	10,5	38,5	19	29	16	0,005
6	8	3184 06 08	13,5	49	23,5	37	23	0,006
8	10	3184 08 10	16	56	26,5	41,5	26,5	0,011
10	12	3184 10 12	19	62,5	28	45,5	31	0,014

3180 plug-in 45° equal elbow with plastic tailpiece

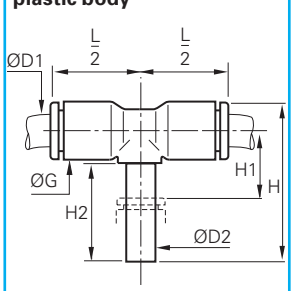
plastic body



ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3180 04 00	9	33,5	19	21	13	0,005
6	6	3180 06 00	11	39	21	25	14,5	0,005
8	8	3180 08 00	13,5	44	21,5	25,5	19,5	0,006
10	10	3180 10 00	16	53	27	32,5	23	0,009
12	12	3180 12 00	19	58,5	27,5	34	26,5	0,012

3188 plug-in equal and unequal compact tee with plastic tailpiece

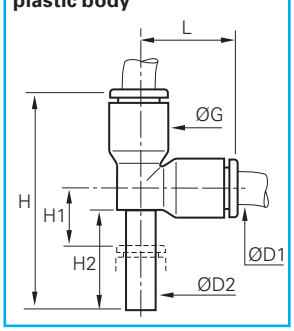
plastic body



ØD1	ØD2		G	H	H1	H2	L/2	kg
4	4	3188 04 00	8,5	23	6	15,5	14,5	0,005
6	6	3188 06 00	10,5	26,5	7	17	16	0,006
8	8	3188 08 00	13,5	33,5	8	21,5	23	0,008
10	10	3188 10 00	16	39	9,5	24,5	26,5	0,012
12	12	3188 12 00	19	44,5	10	27,5	31	0,017
4	6	3188 04 06	10,5	26,5	7	17	16	0,006
6	8	3188 06 08	13,5	33,5	8	21,5	23	0,007
8	10	3188 08 10	16	39	9,5	24,5	26,5	0,011
10	12	3188 10 12	19	44,5	10	27,5	31	0,016

3183 plug-in equal and unequal run tee with plastic tailpiece

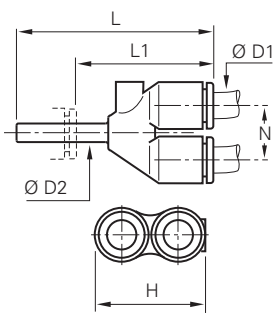
plastic body



ØD1	ØD2		G	H	H1	H2	L	kg
4	4	3183 04 00	8,5	33	6	15,5	14,5	0,005
6	6	3183 06 00	10,5	38,5	7	17	17,5	0,006
8	8	3183 08 00	13,5	49	8	21,5	23	0,008
10	10	3183 10 00	16	57	10,5	24,5	26,5	0,012
12	12	3183 12 00	19	65,5	10,5	27,5	31	0,017
4	6	3183 04 06	10,5	38,5	7	17	17,5	0,006
6	8	3183 06 08	13,5	48,5	8	21,5	23	0,007
8	10	3183 08 10	16	56,5	10,5	24,5	26,5	0,011
10	12	3183 10 12	19	65,5	10,5	27,5	31	0,016

3142 plug-in equal and unequal single «Y» piece

plastic body

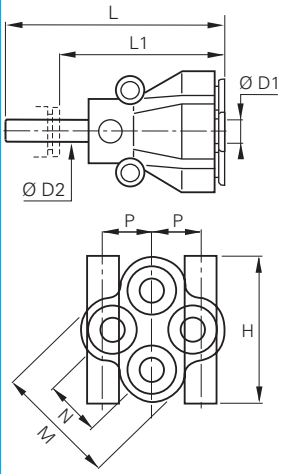


ØD1	ØD2		H	L	L1	N	kg
4	4	3142 04 00	17,5	34	21,5	9	0,005
6	6	3142 06 00	21,5	39,5	25,5	11	0,008
8	8	3142 08 00	28	50,5	32	14,5	0,014
10	10	3142 10 00	33	57,5	36	17	0,021
12	12	3142 12 00	39	66	41	20	0,026
4	6	3142 04 06	17,5	35,5	21,5	9	0,005
6	8	3142 06 08	21,5	44	25,5	11	0,008
8	10	3142 08 10	28	53,5	32	14,5	0,014
10	12	3142 10 12	33	60	35	17	0,021

This model comprises one inlet (ØD2) and two equal outlets (ØD1)

3143 plug-in multiple «Y» piece

plastic body,
nickel-plated brass stem

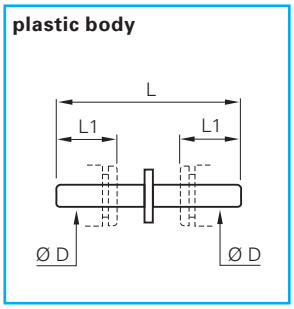


ØD1	ØD2		H	L	L1	M	N	P	kg
4	6	3143 04 06	26	46	35,5	21,5	11	8,5	0,027
4	8	3143 04 08	26	51	32	21,5	11	8,5	0,026
6	8	3143 06 08	31,5	57,5	39	26,5	12	10	0,040

This model comprises one inlet (ØD2) and four equal outlets (ØD1)

3120 double male stem connector - plastic

plastic body



Ø D		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	0,002
10	3120 10 00	51,5	20,5	0,003
12	3120 12 00	60	24,5	0,004
14	3120 14 00	69,5	25,5	0,005

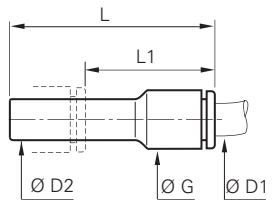
This model exists in nickel-plated brass: please use suffix 85
example : 3120 04 00 85

Legris plug-in fittings also offer solutions for small spaces and system design by the use of cartridges. For details of Legris **Carstick®**, - an innovative, modern cartridge assembly - please refer to page A32/A33.

plug-in fittings and accessories

3166 reducer

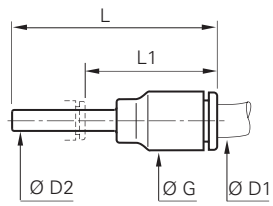
plastic



ØD1	ØD2		G	L	L1	kg
3	4	3166 03 04	8,5	37,5	23,5	0,004
4	6	3166 04 06	8,5	37,5	23,5	0,004
4	8	3166 04 08	8,5	37,5	19	0,004
4	10	3166 04 10	12	44	22,5	0,005
6	8	3166 06 08	10,5	37,5	20	0,004
6	10	3166 06 10	10,5	38	17,5	0,006
6	12	3166 06 12	14,5	46	23	0,007
6	14	3166 06 14	14,5	48	23	0,008
8	10	3166 08 10	13,5	49	28,5	0,009
8	12	3166 08 12	13,5	49	24,5	0,010
8	14	3166 08 14	17	48	23	0,010
10	12	3166 10 12	21,5	56,5	33,5	0,019
10	14	3166 10 14	21,5	58,5	33,5	0,020
12	14	3166 12 14	23,5	58,5	33,5	0,023

3168 increaser

plastic

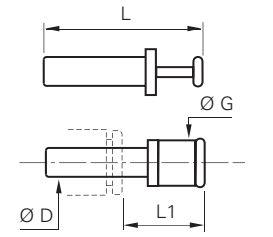


ØD1	ØD2		G	L	L1	kg
4	1/8	3168 04 53	10	40	29	0,002
6	4	3168 06 04	10,5	35	23	0,003
8	6	3168 08 06	13,5	45	31,5	0,005
8	1/4	3168 08 56	10	39,5	29	0,008
10	8	3168 10 08	16	42,5	21	0,009
12	10	3168 12 10	19	49	24,5	0,019

This model enables passage from a smaller to a larger tube diameter

3126 blanking plugs

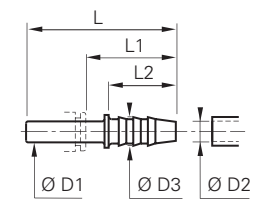
plastic



Ø D		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	0,002
10	3126 10 00	12	42	21	0,003
12	3126 12 00	14	45	22	0,004
14	3126 14 00	16	49	23,5	0,005

3122 barbed connector for unequal tube

plastic

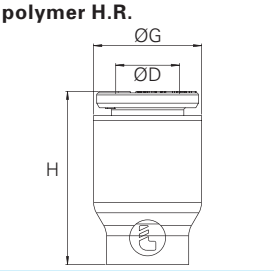


**nickel-plated brass*

ØD1	ØD2		ØD3	L	L1	L2	kg
4	5	3122 04 05	7	37	25	17	0,003
4	3,2	3122 04 53	5	37	25	17	0,002
6	5	3122 06 05	7	39	25	17	0,004
8	6,3	3122 08 56	8,5	39,5	21	17	0,005
8	8	3122 08 08	10	44,5	26	22	0,005
10	6,3	3122 10 56	8	45	24,5	17	0,005
10	8	3122 10 08	10	50	29,5	22	0,006
12	8	3122 12 08	10	50	26	22	0,008
12	10	3122 12 10	12	48,5	25,5	22,5	0,014
12	12,5	3122 12 62	14,5	57	34	22,5	0,019
14	12,5	3122 14 62	14,5	59,5	34,5	22,5	0,022
14	14	*3122 14 14	16	59,5	34,5	22,5	0,022

3151 female plug, with instant connection

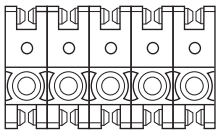
polymer H.R.



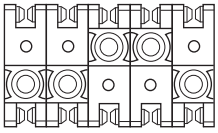
ØD1		ØG	H	kg
4	3151 04 00	8,5	14,7	0,001
6	3151 06 00	10,5	16,9	0,001
8	3151 08 00	13,5	21,9	0,002
10	3151 10 00	16	22,2	0,003
12	3151 12 00	19	27,7	0,006

modular plug-in connectors

The modular construction of these components allows a number of pneumatic tubes to be connected or separated with a simple plug-in action. A series of male/female connectors provide a leakproof joint. Units of any length can be constructed and all connections are for 4 mm o.d. tube.
The two common uses for this product are :
1 - Fixing one half to a panel, machine or bulkhead and allowing the floating half to be assembled or disconnected to change a machine or sequence. Often when machines are transported air lines are separated and this connection provides a foolproof method of reconnection on site.
2 - Using the connector in an in-line means of joining long lengths of tubing which need to be disconnected periodically.
It is advisable to limit the unit length to five connectors as illustrated in the photograph below left.



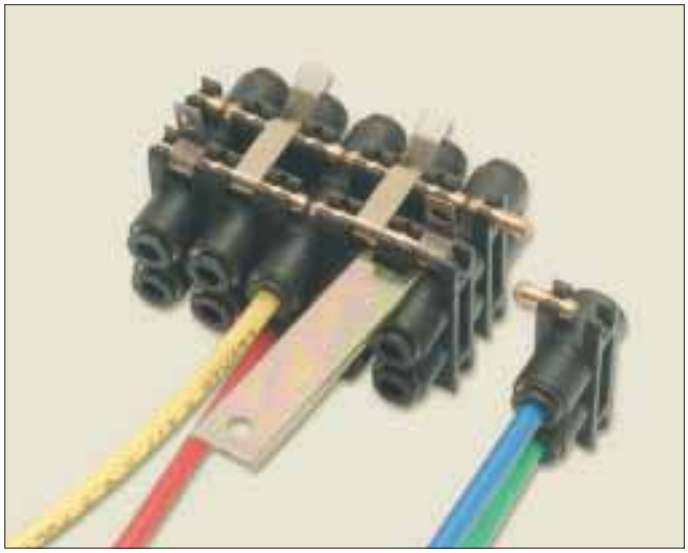
standard assembly



offset assembly

personalization of connector

By reversing the slices of the module during their assembly it is possible to «offset» units so that they cannot be mixed or inadvertently connected in the wrong order.



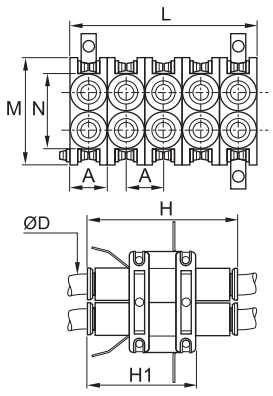
components used in the module assembly

The module is constructed from a number of symmetrical components each of which must mate with another similar component in the other half of the coupling.
When fully assembled one box of the modular plug-in connector provides 20 x 4 mm tube connections.
10 in one half and 10 mating ones in the other.

The complete box contains :
10 units each containing two 4 mm connections
20 joining pins and 4 end pins
4 mounting brackets
4 coupling clips
1 dismantling tool

3300 modular plug-in connectors for 4 mm o.d. tube

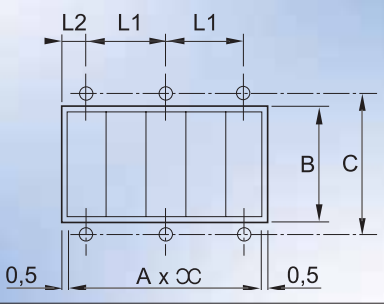
plastic body



clearance hole for Ø3 mm screw

ØD		A	B	C	H	H1	L	L1	L2	M	N	kg
4	3300 04 00	11	21	40	40,5	29,5	55	22	6	32	20	0,106
6	3300 06 00	14	28	47	48	38,5	70	28	7,5	39	27,5	0,106
8	3300 08 00	14	28	47	50	39	70	28	7,5	39	27,5	0,106

fixing dimensions
∞ = number of modules



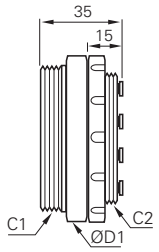
LF 3000® multi-connectors

Legris multi-connectors are designed for simultaneous connection and disconnection of 2, 4, 7 and 12 tubes.
Its LF 3000® technology and performance makes it easy to use :
- instant connection and disconnection, without tools,
- full flow, without restriction.

In order to facilitate the installation, each tube outlet is numbered. A location pin avoids assembly errors and a cap helps to guide the tubes and to protect connections.
To cover all users' needs, this range can also be used for bulkhead connections.
This range can also be used for bulkhead connections.
Please consult us for customised versions, including connectors with integral shut-off valves.

3320 male screw body

plastic

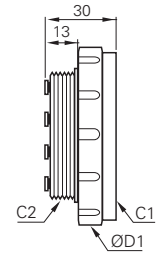


o.d. tube	number of outlets		C1	C2	ØD1
4	2	3320 04 00 02	M38x1,5	M32x1,5	42
4	4	3320 04 00 04	M46x1,5	M40x1,5	50
4	7	3320 04 00 07	M46x1,5	M40x1,5	50
4	12	3320 04 00 12	M65x1,5	M58x1,5	70
6	2	3320 06 00 02	M38x1,5	M32x1,5	42
6	4	3320 06 00 04	M46x1,5	M40x1,5	50
6	7	3320 06 00 07	M46x1,5	M40x1,5	50
8	2	3320 08 00 02	M38x1,5	M32x1,5	45

The number of male body outlets must correspond to the same number of outlets on the female body.
E.g. model 3320 08 00 02 must only be connected to model 3321 08 00 02.

3321 female screw body

plastic

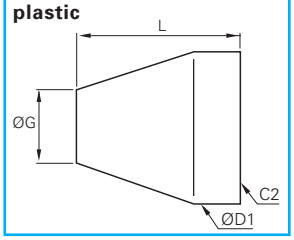


o.d. tube	number of outlets		C1	C2	ØD1
4	2	3321 04 00 02	M38x1,5	M32x1,5	45
4	4	3321 04 00 04	M46x1,5	M40x1,5	55
4	7	3321 04 00 07	M46x1,5	M40x1,5	55
4	12	3321 04 00 12	M65x1,5	M58x1,5	75
6	2	3321 06 00 02	M38x1,5	M32x1,5	45
6	4	3321 06 00 04	M46x1,5	M40x1,5	55
6	7	3321 06 00 07	M46x1,5	M40x1,5	55
8	2	3321 08 00 02	M38x1,5	M32x1,5	45

The number of female body outlets must correspond to the same number of outlets on the male body.
E.g. Model 3321 08 00 02 must only be connected to model 3320 08 00 02.

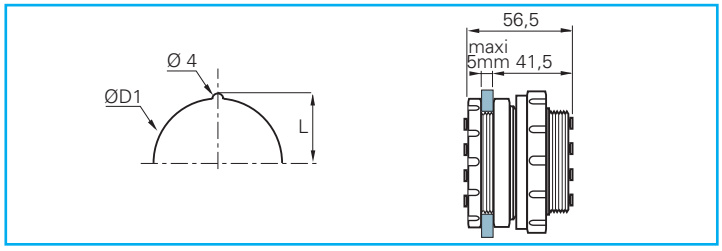
3329 screw cap

plastic



number of outlets		C2	ØD1	G	L
2	3329 00 01	M32x1,5	42	32	50
4-7	3329 00 02	M40x1,5	50	35	55
12	3329 00 03	M58x1,5	70	34	70

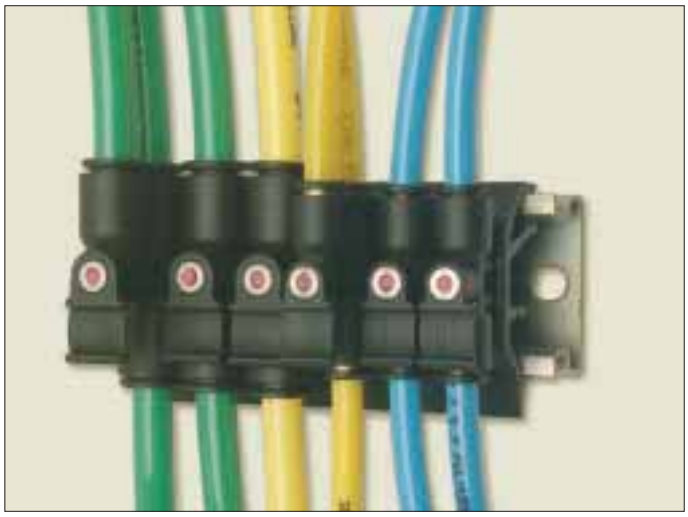
overall dimensions for bulkhead mounting



number of outlets	L	ØD1
2	17	32,5
4-7	21	40,5
12	30,3	58,5

To complement LF 3000® multi-connectors, you will also find a range of Multitube on page K15 of the Tubes and Hoses section.

connectors for DIN rail profile ⊏ or Ω



These components are similar in principle to the electrical connectors found in control panels and are used to rationalise cabling and to assist trouble shooting.
Used alongside electrical connectors, Legris DIN rail connectors provide similar facilities for pneumatic circuits, and are mounted on the same rail profile which allows electrics and pneumatics to run side by side. All tube connections are Legris push-in fittings for plastic tubing.

identification and trouble shooting

Tube identification

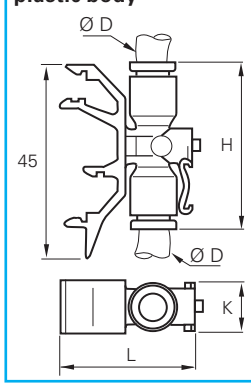
Channels or slots for labels are designed to assist tube identification.

Test point facility

Being able to detect the presence of air is an important consideration when maintaining pneumatic control systems. Legris DIN rail connectors incorporate test points which pop out after being manually depressed, indicating the presence of air in the system.

3379 connector for 2 tubes in line

plastic body

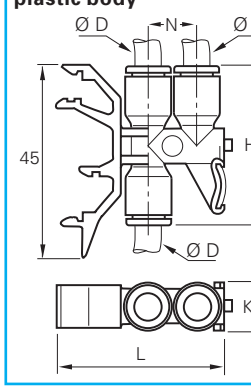


ØD		H	K	L	kg
4	3379 04 00	36,5	12	30	0,020
6	3379 06 00	36,5	12	30	0,026
8	3379 08 00	46	13	32,5	0,034

Fixed by clipping to DIN rail

3381 connector for 3 tubes

plastic body

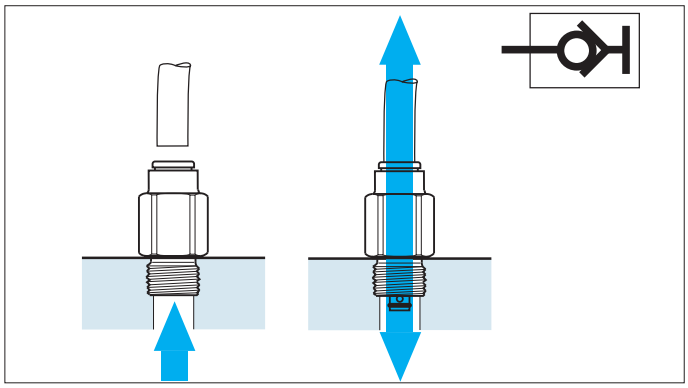


ØD		H	K	L	N	kg
4	3381 04 00	36,5	11	39,5	11,5	0,027
6	3381 06 00	36,5	11	39,5	11,5	0,033
8	3381 08 00	46	13	44,5	14,5	0,043

Fixed by clipping to DIN rail

Working pressure of models 3379 and 3381 : **1 to10 bar**

self-sealing fittings

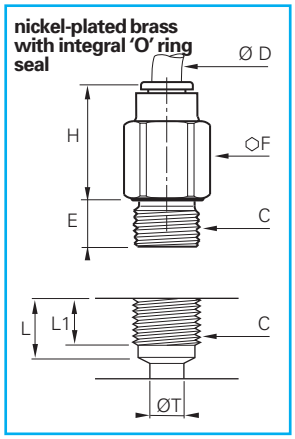


Legris self-sealing fittings enable circuits and machinery to stay under pressure when being checked and maintained. The working process is simple :

- Prevents fluid flow when there is no tube connected.
- Conversely, when connected, the compressed air flow is restored in both directions.

3391 self-sealing male stud fitting, BSPP thread

nickel-plated brass with integral 'O' ring seal



Ø D	C		E	F	H	kg
4	G1/8	3391 04 10	5	13	18	0,018
6	G1/8	3391 06 10	5	14	19,5	0,018
8	G1/8	3391 08 10	5	14	29,5	0,025
8	G1/4	3391 08 13	5,5	16	25,5	0,037
10	G3/8	3391 10 17	5,5	20	27,5	0,052

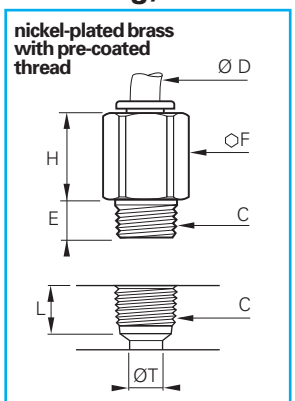
stud dimensions

Ø D	C	L	L1	ØT
4	G1/8	7,5	6	5
6	G1/8	9	6	7,5
8	G1/8	10	6	7,5
8	G1/4	11	8	9
10	G3/8	13	11	10

maximum working pressure = 10 bar

3091 self-sealing male stud fitting, BSPT thread

nickel-plated brass with pre-coated thread



Ø D	C		E	F	H	kg
4	R1/8	3091 04 10	7,5	12	18	0,018
6	R1/8	3091 06 10	7,5	13	19,5	0,018
8	R1/8	3091 08 10	6,5	14	25	0,025
8	R1/4	3091 08 13	11	14	25,5	0,037
10	R3/8	3091 10 17	11,5	17	27,5	0,052

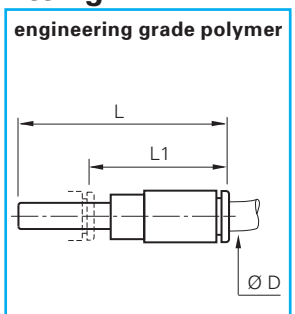
stud dimensions

Ø D	C	L	ØT
4	R1/8	9,5	5
6	R1/8	9,5	7,5
8	R1/8	10,5	7,5
8	R1/4	13,5	9
10	R3/8	14	10

maximum working pressure = 10 bar

3160 self-sealing plug-in fitting

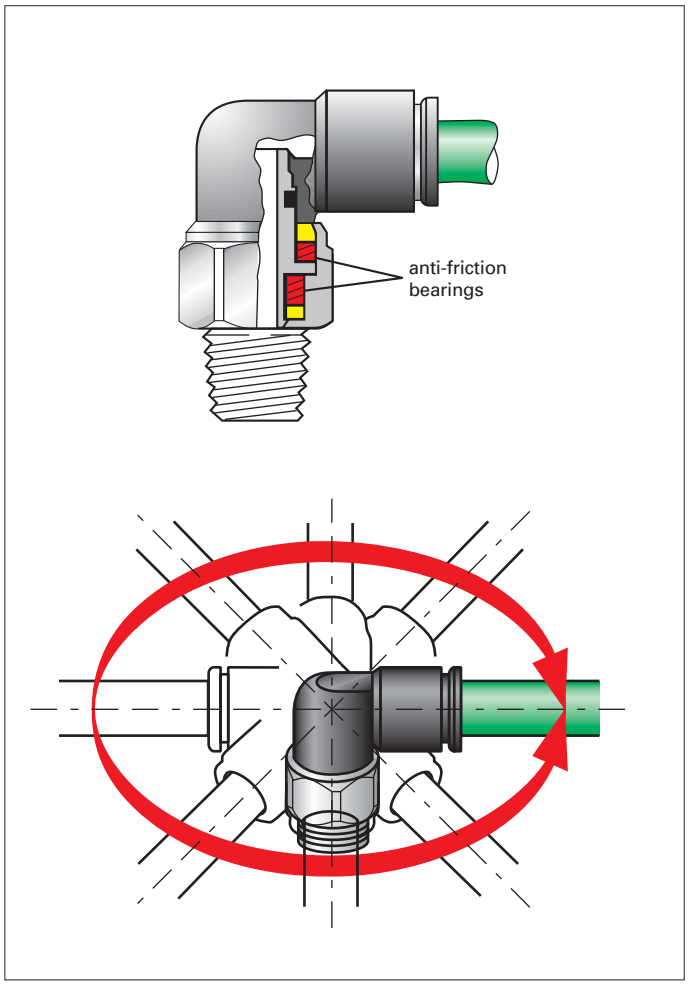
engineering grade polymer



Ø D		L	L1	kg
4	3160 04 00	46	33,5	0,005
6	3160 06 00	53,5	31	0,009
8	3160 08 00	58	31	0,009

This model prevents fluid flow in-line when there is no tube connected ; connecting the tube allows fluid flow.

swivel fittings



At the heart of the LF 3000® range, Legris swivel fittings are designed to satisfy the requirements of industrial automation and robotics. The swivel fitting features low-friction bearings, enabling the fitting to rotate in conjunction with the stroke of the cylinder piston. This prevents premature tube wear due to excessive flexing.
Highly reliable technology gives particularly long life expectancy on all installations thus equipped.

To achieve longevity of the tubing we advise that the tube is designed to move in the same plane as the tube-exit from the fitting. We advise against the use of recoil tubing.

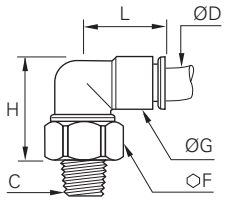
Technical specification

The values in this table are at 6 bar pressure and 20°C.

o.d. tube mm	4	6	8	10	12
torque in Nm x 10	$<2{,}5 \cdot 10^{-3}$	$<4 \cdot 10^{-3}$	$<7 \cdot 10^{-3}$	$<11 \cdot 10^{-3}$	$<16 \cdot 10^{-3}$
maximum rotation speed in radian/second	190	160	120	90	80

3159 oscillating compact elbow, BSP taper stud

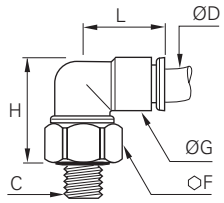
body : plastic stud : nickel -plated brass with sealant on threads



ØD	C		F	G	H	L	kg
4	R1/8	3159 04 10	12	11	22	17,5	0,014
6	R1/8	3159 06 10	14	14	26,5	20,5	0,020
6	R1/4	3159 06 13	14	14	23,5	20,5	0,022
8	R1/8	3159 08 10	17	16	32	23,5	0,034
8	R1/4	3159 08 13	17	16	29	23,5	0,034
8	R3/8	3159 08 17	17	16	25	23,5	0,032
10	R1/4	3159 10 13	19	19,5	37,5	29	0,054
10	R3/8	3159 10 17	19	19,5	33,5	29	0,050
12	R1/4	3159 12 13	21	22	44,5	33,5	0,076
12	R3/8	3159 12 17	21	22	41	33,5	0,070

3189 oscillating compact elbow, BSPP and M5 stud

plastic body, nickel-plated brass, base with integral 'O' ring seal



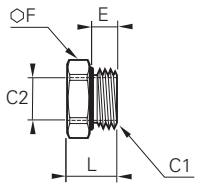
ØD	C		F	G	H	L	kg
4	M5x0,8	3189 04 19	12	11	24,5	17,5	0,012
4	G1/8	3189 04 10	13	11	23	17,5	0,014
6	M5x0,8	3189 06 19	12	14	27,5	20,5	0,016
6	G1/8	3189 06 10	14	14	27	20,5	0,020
6	G1/4	3189 06 13	16	14	25,5	20,5	0,022
8	G1/8	3189 08 10	17	16	33,5	23,5	0,034
8	G1/4	3189 08 13	17	16	31	23,5	0,034
8	G3/8	3189 08 17	20	16	29,5	23,5	0,032
10	G1/4	3189 10 13	19	19,5	30	29	0,054
10	G3/8	3189 10 17	20	19,5	37	29	0,050
12	G1/4	3189 12 13	21	22	46,5	33,5	0,076
12	G3/8	3189 12 17	21	22	45,5	33,5	0,070

length of parallel thread (E) for 3189

C	M5X0,8	G1/8	G1/4	G3/8
E	3	5	5,5	5,5

0178 reducer male to female, BSPP and metric thread

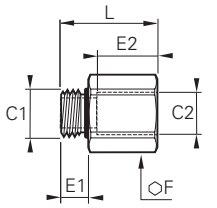
nickel-plated brass, with integral 'O' ring seal



C1	C2		E	F	L	kg
M7x1	M5x0,8	0178 55 19	5	10	12	0,004
G1/8	M5x0,8	0178 10 19	5	13	9	0,005
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
G3/8	G1/4	0178 17 13	5,5	20	10,5	0,014
G1/2	G1/4	0178 21 13	7,5	24	12,5	0,024
G1/2	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

0179 increaser male to female, BSPP and metric thread

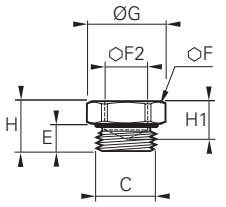
nickel-plated brass, with integral 'O' ring seal



C1	C2		E1	E2	F	L	kg
M12x1,5	G1/4	0179 67 13	6,5	8	16	18	0,005
G1/8	G1/4	0179 10 13	5	12	16	19	0,005
G1/4	G3/8	0179 13 17	5,5	15	20	23	0,006
G3/8	G1/2	0179 17 21	5,5	16	24	24	0,016

0222 threaded plug, BSPP and metric thread

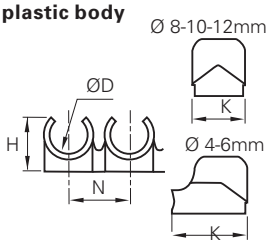
nickel-plated brass, with integral 'O' ring seal



C		E	F	G	F2	H	H1	kg
M5x0,8	0222 19 00	3,5	8	9	2,5	7,1	4,1	0,004
M7x1	0222 55 00	5	10	11	3	8,5	4,7	0,005
G1/8	0222 10 00	5	13	14	5	8,6	6,4	0,005
G1/4	0222 13 00	5,5	16	17,5	6	9,5	7,4	0,007
G3/8	0222 17 00	5,5	20	22	8	10,5	8,4	0,012
G1/2	0222 21 00	7,5	24	26	10	12,1	9,9	0,019

Clip clip strips for tubes

plastic body



ØD		H	K	N	Number of clips per strip	Ø LF3000® to be clipped	kg
4	Clip 04 00	9	13,5	10,5	8		0,008
6	Clip 06 00	10,5	13	10,5	8		0,009
8	Clip 08 00	12,5	10,5	12	7	4	0,009
10	Clip 10 00	14	12	15	6	6	0,010
12	Clip 12 00	16,5	14	16,5	5		0,011
14	Clip 14 00	18	16	20,5	4	8	0,011

Delivered in boxes of 10 strips of the same diameter (complete with self-tapping screws of 9.5 mm length).

Legris clips are also designed to fix LF 3000® fittings in series within a minimum of space. Supplied in strips, clips can be separated by hand or with a tube cutter and enable the use of multiple clips, depending on the users' needs.

The **LF 3000® system** is designed for use with **various types of tubing** found in this catalogue :

- **semi-rigid nylon** tube : 3 mm OD to 14mm OD
- **flexible polyurethane** tube : 3 mm OD to 14mm OD
- **fluoropolymer** tube : 4 mm OD to 12mm OD

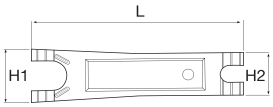
3110 coloured release button covers for LF 3000® 3rd Generation

Ø D						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	0,001

LF 3000® third generation fittings are supplied fitted with fixed black manual release buttons. Coloured release button covers help the **identification** of circuits.
Simply cover the black release button with a button of another colour.
5 colours are available, as above, and allow colour coding to be used throughout circuits, in association with the tubing of the same colour. Legris release buttons are supplied in quantities of 100.

3000 70 disconnection tool

steel



	H1	H2	L	kg
3000 70 00	25	20	96	0,020

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

3130 Tamper-Evident Safety Clip

Ø D							H (mm)	K (mm)	kg
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	0,002
10	3130 10 01	3130 10 02	3130 10 03	3130 10 04	3130 10 05	3130 10 10	10,8	4,2	0,003
12	3130 12 01	3130 12 02	3130 12 03	3130 12 04	3130 12 05	3130 12 10	12,5	5,1	0,004

Applications
- Pneumatic networks, water treatment devices, water cooling.

Benefits
- Compatible with LF 3000 instant fittings and pneumatic function fittings.
- A solution that makes tampering obvious and warns that : the application is sensitive and that disconnection could endanger persons and goods.
- The clip must be cut with pliers to disconnect the tube, limiting this operation to workers with a toolbox, and thus reinforcing the warning about disconnection.
- Evidence of tampering is apparent after disconnection but the clip maintains its safety function.
- Colour-coding enables fluid circuit identification (6 colours).

Technical specifications
Suitable fluid : air, grease, cleaning agents
Working temperature : from -20°C to +150°C
Materials : Polyamide 6-6 reinforced with fiberglass

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

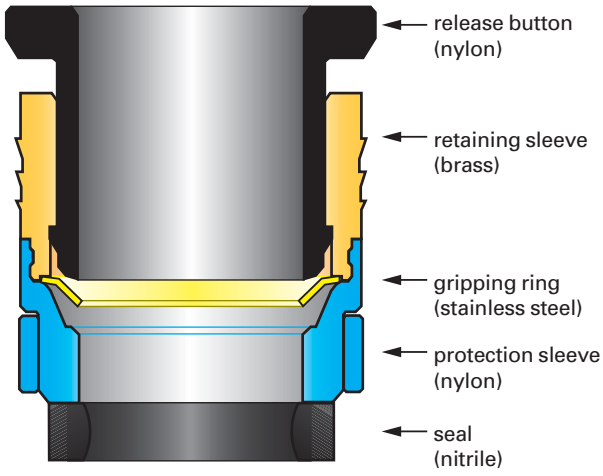
carstick® cartridges

The Carstick® concept combines LF 3000® one-piece cartridges with a specially designed protection and dispensing sleeve.
Ideal for continuous processes in large quantities, it provides a high performance solution for automatic, semi automatic and manual assembly equipment for pneumatic components.

Advantages :

- **assembly time saving, with complete safety**
  - one piece cartridge, no risk of losing the seal
  - pre-greased and protected seal
  - self-centring of the cartridge to half of its height within the cavity
  - protection against contaminants (dust, swarf ...) throughout manufacture and assembly.
- **Tried and tested technology**
  - LF 3000® technical performance
  - automatic seal, full flow, vacuum capability
- **optimised dimensions**
- **suitable for automatic processes**
  - automatic self alignment during insertion
  - capable of combining dispensing and assembly
- **closer mounting tolerances and shallow cavities**

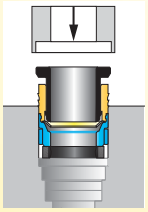
working specifications



Carstick® is designed for use with Legris semi-rigid nylon and flexible polyurethane tubing.

suitable fluid	compressed air
working pressure	20 bar maximum
working temperature	-20°C to +80°C
vacuum	755 mm Hg (99% vacuum)

Force required for insertion (F)

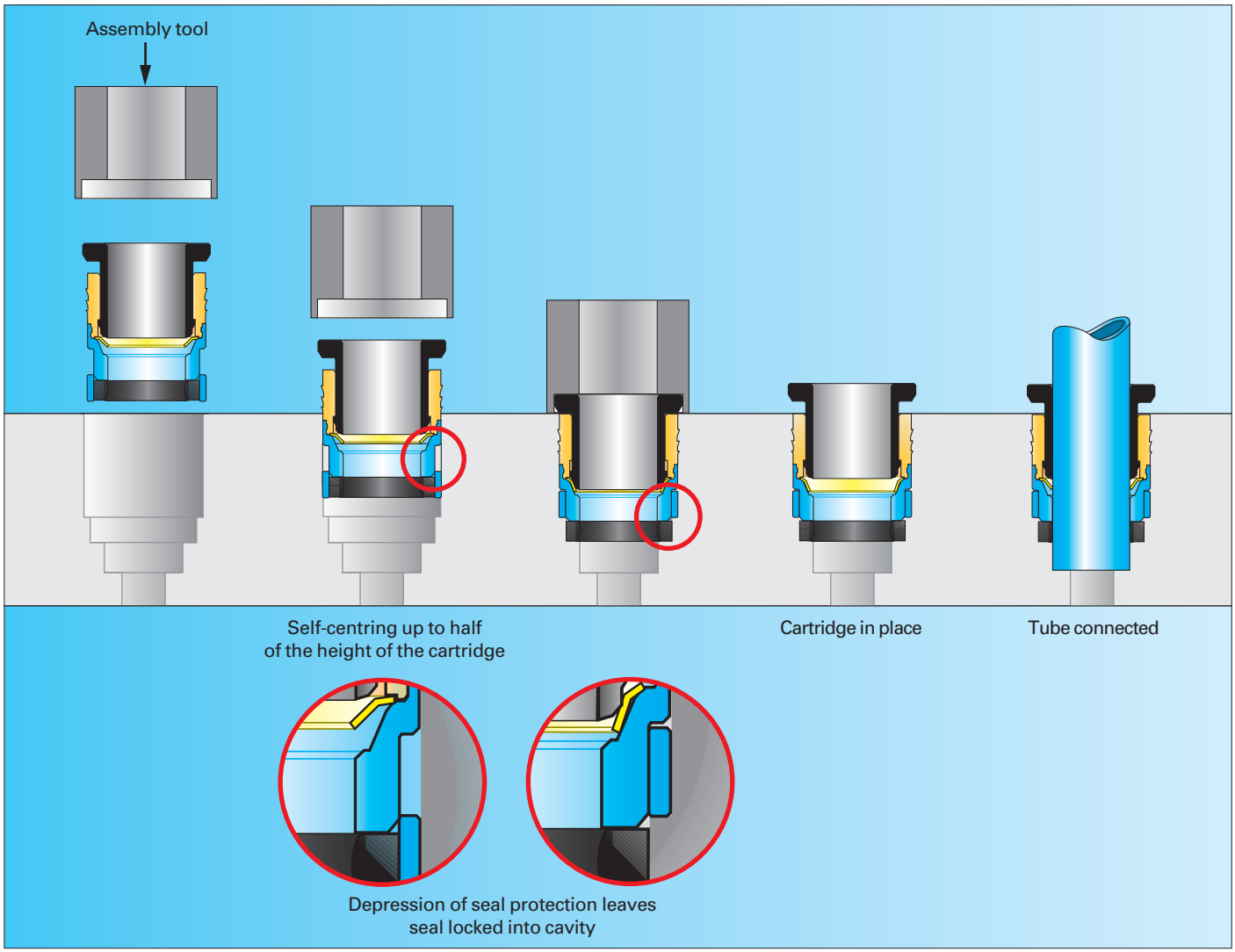


tube Ø	nylon cavity	aluminium cavity	brass cavity
4 mm	300 daN	300 daN	300 daN
6 mm	300 daN	300 daN	300 daN
8 mm	300 daN	350 daN	300 daN
10 mm	300 daN	300 daN	300 daN
12 mm	400 daN	400 daN	400 daN

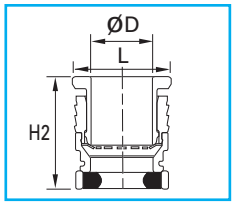
Legris can also provide alternative designs such as :
- other types of seal (EPDM, FKM...)
- other materials (stainless steel sleeve...)

Please ask for details.
Please contact us for assembly tool cavity dimensions.

carstick®: assembly

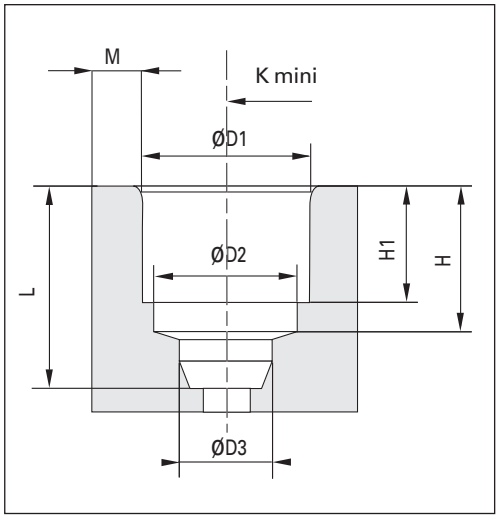


cartridge



ØD	L	H2
4	8,1	10
6	10,1	11,5
8	13	15
10	15,5	17
12	19,5	19,5

cavity dimensions

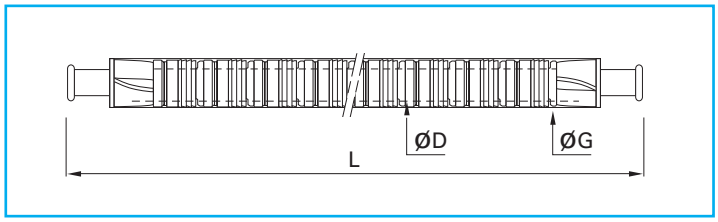


ØD	ØD3	H	H1	L
4	4,1	8,15	6	10
6	6,1	9,65	7,5	12
8	8,15	12,45	9,9	15,5
10	10,15	14,35	11,7	19
12	12,17	16,75	13,9	22

	nylon cavity				aluminium cavity				brass cavity			
ØD	ØD1	ØD2	K	M	ØD1	ØD2	K	M	ØD1	ØD2	K	M
4	8,25	7,05	9,8	1,5	8,25	7,05	11,5	3	8,25	7,05	10,25	2
6	10,2	9,15	12,2	2	10,3	9,15	13,5	3	10,25	9,1	12,25	2
8	12,15	10,85	14,2	2	12,2	10,85	15,2	3	12,2	10,85	14,25	2
10	14,8	13,2	16,8	2	15,05	13,2	17,1	2	15,05	13,2	17,1	2
12	17,5	15,5	20	2,5	17,5	15,5	20	2,5	17,65	15,5	20	2,5

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

3100 carstick®



ØD cartridge		G	L
4	3100 04 00	10,9	554
6	3100 06 00	14,5	629
8	3100 08 00	15,25	794
10	3100 10 00	19,5	930
12	3100 12 00	21,3	1038

50 cartridges per Carstick®

principle and specifications of the quick fitting range

The quick fitting is useful on control valves, manifolds or cylinders in the following applications :

- Industrial automation solutions
- Textile
- Transportation
- Packaging
- Food industry (non-food zone)
- Vacuum industry
- Medical equipment
- Electronics

- **Save Time During Assembly**
  - No thread to machine in your housing
  - No risk of faulty assembly
  - Possibility of having different tube diameters for only one cavity diameter
  - No risk of losing the seal : one-piece fitting
  - Instant connection and disconnection of the tubing
- **Save Space on your Devices**
  - Flexibility of choice for the fitting's shape (tee, elbow, diameter 4 or 6, for example)
  - Closer mounting tolerances and shallow cavities
- **Superior Product Quality**
  - Individual unit quality control and dating in order to guarantee quality and traceability
  - Protection against contaminants (dust, etc.) throughout production and assembly
  - Vacuum capability

Technical specifications

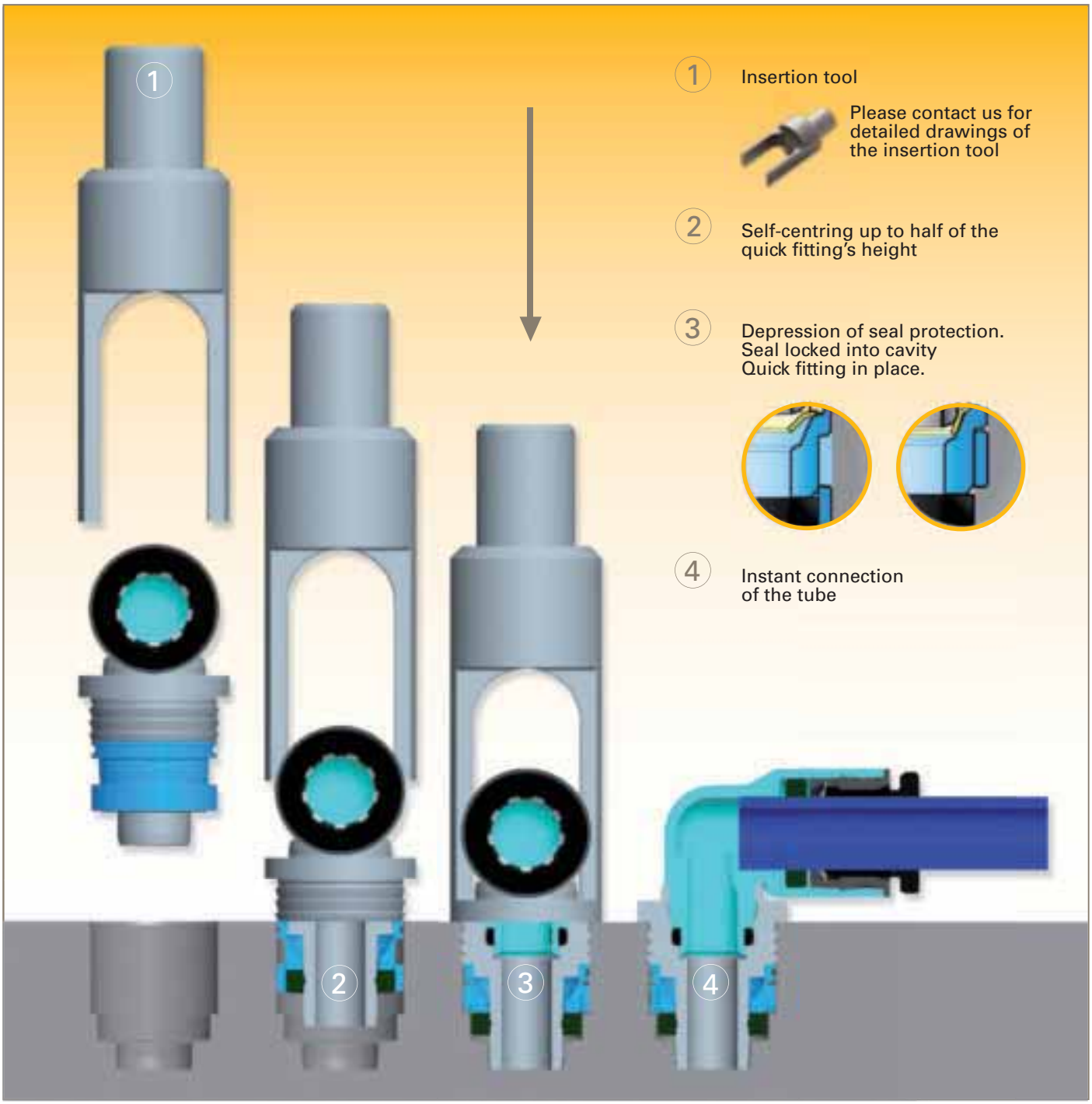
Materials

Working Fluid	Compressed air
Working Pressure	0 to 20 bar
Working Temperature	-20° to +80°C
Vacuum	99% (750 mm Hg)

Force required for insertion (F)

Ø tube	cavity nylon	cavity aluminium	cavity brass
4 mm	300 daN	300 daN	300 daN
6 mm	300 daN	300 daN	300 daN
8 mm	300 daN	350 daN	300 daN
10 mm	300 daN	300 daN	300 daN
12 mm	400 daN	400 daN	400 daN

quick fitting : assembly



1 Insertion tool

Please contact us for detailed drawings of the insertion tool

2 Self-centring up to half of the quick fitting's height

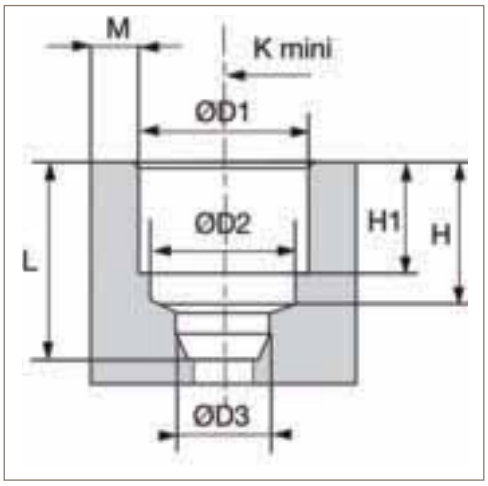
3 Depression of seal protection.
Seal locked into cavity
Quick fitting in place.

4 Instant connection of the tube

Assembly Steps :

quick fitting : cavity dimensions

Cavity dimensions for 90° elbow, 45° elbow, branch tee, reducer quick fittings



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

Nylon (mm)

Cavity	ØD1	ØD2	ØD3	H	H1	K mini	L	M
4	8,25	7,05	4,1	8,15	6	12,3	10	1,5
6	10,21	9,1	6,1	9,65	7,5	12,3	12	2
8	12,15	10,85	8,15	12,45	9,9	14,3	15,5	2
10	14,8	13,2	10,15	14,35	11,7	19	19	2
12	17,5	15,5	12,17	16,75	13,9	20,2	22	2,5

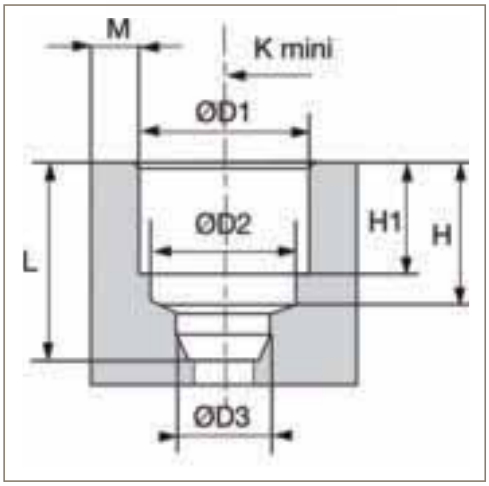
Aluminium (mm)

Cavity	ØD1	ØD2	ØD3	H	H1	K mini	L	M
4	8,3	7,05	4,1	8,15	6	12,3	10	1,5
6	10,3	9,1	6,1	9,65	7,5	12,3	12	2
8	12,25	10,85	8,15	12,45	9,9	15,2	15,5	2
10	15,08	13,2	10,15	14,35	11,7	19	19	2
12	17,7	15,5	12,17	16,75	13,9	20,2	22	2,5

Brass (mm)

Cavity	ØD1	ØD2	ØD3	H	H1	K mini	L	M
4	8,3	7,05	4,1	8,15	6	12,3	10	1,5
6	10,3	9,1	6,1	9,65	7,5	12,3	12	2
8	12,25	10,85	8,15	12,45	9,9	14,3	15,5	2
10	15,08	13,2	10,15	14,35	11,7	19	19	2
12	17,7	15,5	12,17	16,75	13,9	20,2	22	2,5

Cavity dimensions for extended elbow quick fittings



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

Nylon (mm)

Cavity	Tube	ØD1	ØD2	ØD3	H	H1	K mini	L	M
4	4	8,25	7,05	4,1	8,15	6	12,3	10	1,5
6	4	10,21	9,1	6,1	9,65	7,5	12,3	12	2
6	6	10,21	9,1	6,1	9,65	7,5	14,2	12	2
8	6	12,15	10,85	8,15	12,45	9,9	14,3	15,5	2
8	8	12,15	10,85	8,15	12,45	9,9	17,1	15,5	2
10	8	14,8	13,2	10,15	14,35	11,7	19	19	2
10	10	14,8	13,2	10,15	14,35	11,7	20,3	19	2
12	10	17,5	15,5	12,17	16,75	13,9	20,3	22	2,5
12	12	17,5	15,5	12,17	16,75	13,9	23,3	22	2,5

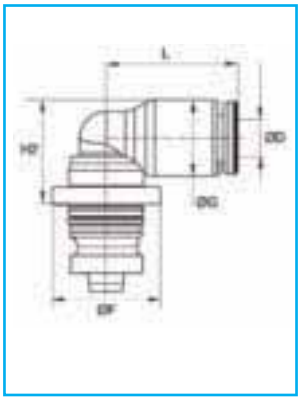
Aluminium (mm)

Cavity	Tube	ØD1	ØD2	ØD3	H	H1	K mini	L	M
4	4	8,3	7,05	4,1	8,15	6	12,3	10	1,5
6	4	10,3	9,1	6,1	9,65	7,5	12,3	12	2
6	6	10,3	9,1	6,1	9,65	7,5	14,2	12	2
8	6	12,25	10,85	8,15	12,45	9,9	14,3	15,5	2
8	8	12,25	10,85	8,15	12,45	9,9	17,1	15,5	2
10	8	15,08	13,2	10,15	14,35	11,7	19	19	2
10	10	15,08	13,2	10,15	14,35	11,7	20,3	19	2
12	10	17,7	15,5	12,17	16,75	13,9	20,3	22	2,5
12	12	17,7	15,5	12,17	16,75	13,9	23,3	22	2,5

Brass (mm)

Cavity	Tube	ØD1	ØD2	ØD3	H	H1	K mini	L	M
4	4	8,3	7,05	4,1	8,15	6	12,3	10	1,5
6	4	10,3	9,1	6,1	9,65	7,5	12,3	12	2
6	6	10,3	9,1	6,1	9,65	7,5	14,2	12	2
8	6	12,25	10,85	8,15	12,45	9,9	14,3	15,5	2
8	8	12,25	10,85	8,15	12,45	9,9	17,1	15,5	2
10	8	15,08	13,2	10,15	14,35	11,7	19	19	2
10	10	15,08	13,2	10,15	14,35	11,7	20,3	19	2
12	10	17,7	15,5	12,17	16,75	13,9	20,3	22	2,5
12	12	17,7	15,5	12,17	16,75	13,9	23,3	22	2,5

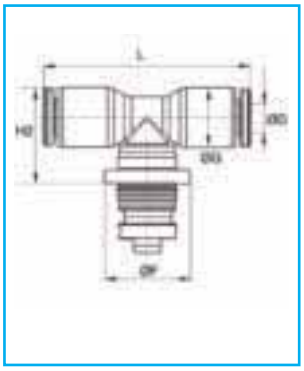
3089 90° elbow quick fitting



ØD		Cavity	F	G	H2	L	kg
4	3089 04 04	4	12,5	9	11,5	15	0,004
4	3089 04 06	6	12,5	9	10,5	15	0,005
6	3089 06 04	4	12,5	11	14	17	0,005
6	3089 06 06	6	12,5	11	12,5	17	0,006
6	3089 06 08	8	14,5	11	13	17	0,010
8	3089 08 08	8	14,5	13,5	16	23	0,011
8	3089 08 10	10	19	13,5	16	23	0,022
10	3089 10 10	10	19	16	19	26,5	0,017
10	3089 10 12	12	20	16	19	26,5	0,028
12	3089 12 12	12	20	19	22	31	0,031

50 fittings / box - available on stock

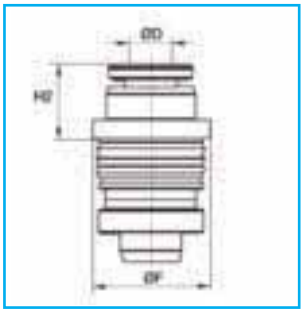
3088 branch tee quick fitting



ØD		Cavity	F	G	H2	L	kg
4	3088 04 04	4	12,5	9	14	30	0,005
4	3088 04 06	6	12,5	8,6	12,5	29,5	0,006
6	3088 06 06	6	12,5	11	14,5	34	0,007
6	3088 06 08	8	14,5	10,6	14,7	33,5	0,011
8	3088 08 08	8	14,5	14	19	46	0,013
8	3088 08 10	10	19	14	19	46	0,024
10	3088 10 10	10	19	16	21	53	0,020
10	3088 10 12	12	20	16	21	53	0,031
12	3088 12 12	12	20	19	24	61	0,036

50 fittings / box - available on stock

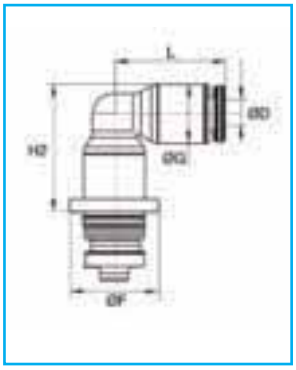
3086 reducer quick fitting



ØD		Cavity	F	H2	kg
4	3086 04 06	6	12,5	7	0,005
6	3086 06 08	8	14	7,5	0,008

Available upon request

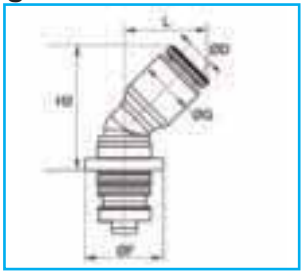
3082 extended quick fitting



ØD		Cavity	F	G	H2	L	kg
4	3082 04 04	4	12,5	9	16	15	0,006
4	3082 04 06	6	12,5	9	15	15	0,009
6	3082 06 06	6	12,5	11	23,1	19	0,010
6	3082 06 08	8	14,2	10,5	29,2	18,5	0,014
8	3082 08 08	8	17	13,5	29,5	22,5	0,021
8	3082 08 10	10	18,8	13,5	28,6	22,6	0,025
10	3082 10 10	10	20,2	16	33	26	0,029
10	3082 10 12	12	20,2	16	33	26	0,040
12	3082 12 12	12	23,2	19	39	31	0,056

Available upon request

3081 45° elbow quick fitting



ØD		Cavity	F	G	H2	L	kg
4	3081 04 04	4	12,5	9	19	13	0,004
6	3081 06 06	6	12,5	11	22	14,5	0,006
8	3081 08 08	8	14,5	13,5	26	19	0,011
10	3081 10 10	10	19	16	30	22	0,017
12	3081 12 12	12	20	19	35,5	26	0,031

Available upon request

principle and specifications of 3 mm push-in fittings

Very small pneumatic installations, as used throughout industry, have severe size and weight constraints, together with an absolute requirement for precision and reliability. Legris 3 mm instant fittings are the answer to such applications. Very small and lightweight, 3 mm push-in fittings are designed for highly compact space requirements.
With 100% chemically nickel-plated brass components (body and collet), this range is resistant to corrosive and aggressive environments.
The range is resistant to high operating temperatures and to corrosive/aggressive environments.
It's gripping principle is based on that of Legris push-in fittings : instant connection and disconnection, by hand and without any tool.

Examples of industrial applications include :

- assembly of electronic components using gripper feeds
- semi-conductor, integrated circuit production using miniature cylinders and valves
- manufacturing and assembly in the textile and sewing industries using micro-pneumatic circuitry
- precision mechanics, such as dental equipment

technical specifications

Reliable performance is dependent upon the tube being used, the wall thickness of the tube, ambient temperature and fluid conveyed together with the component materials of the fitting.

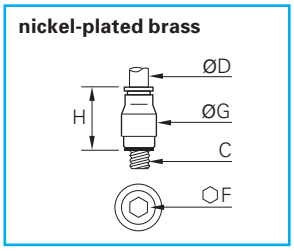
All items in the LF 3000® range are guaranteed SILICONE FREE

suitable fluids	compressed air
working pressure	18 bar maximum. The maximum pressure of the circuit depends on the type of tube used.
working temperature	from -15°C to +70°C. The allowable working temperature depends on the type of tube used.
materials	**body** : nickel-plated brass **internal seal** : nitrile 'O' ring **thread seal** : fluoropolymer **collet** : nickel plated brass
tightening torque for 3mm fittings	0.1 to 1.0 Nm

male stud fittings

3281 male stud fitting, M3 and M5 thread

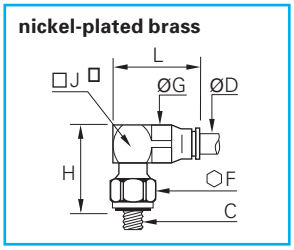
nickel-plated brass



ØD	C		F	G	H	kg
3	M3x0,5	3281 03 09	1,5	6	9,5	0,001
3	M5x0,8	3281 03 19	1,5	7,8	9,5	0,002

3299 compact male stud elbow, M3 and M5 thread

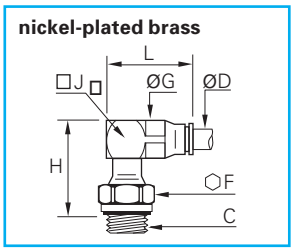
nickel-plated brass



ØD	C		F	G	H	J	L	kg
3	M3x0,5	3299 03 09	6	6,2	13,5	6	13,5	0,003
3	M5x0,8	3299 03 19	8	6,2	13	6	13,5	0,004

3229 extended male stud elbow, M3 and M5 thread

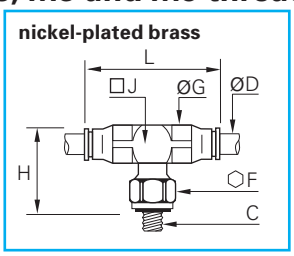
nickel-plated brass



ØD	C		F	G	H	J	L	kg
3	M3x0,5	3229 03 09	6	6,2	16	6	13,5	0,001
3	M5x0,8	3229 03 19	8	6,2	17	6	13,5	0,001

3298 male stud branch tee, M3 and M5 thread

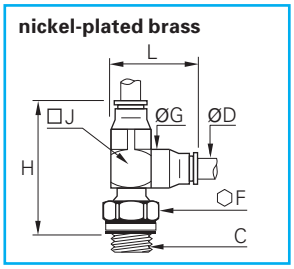
nickel-plated brass



ØD	C		F	G	H	J	L	kg
3	M3x0,5	3298 03 09	6	6,2	13,5	6	20,5	0,004
3	M5x0,8	3298 03 19	8	6,2	13	6	20,5	0,005

3293 male stud run tee, M3 and M5 thread

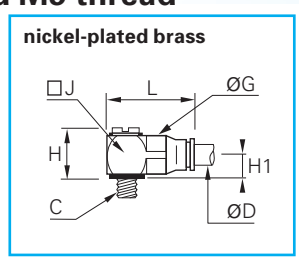
nickel-plated brass



ØD	C		F	G	H	J	L	kg
3	M3x0,5	3293 03 09	6	6,2	20,5	6	13,5	0,004
3	M5x0,8	3293 03 19	8	6,2	20	6	13,5	0,005

3218 single banjo, M3 and M5 thread

nickel-plated brass

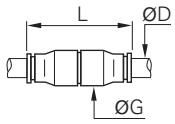


ØD	C		G	H	H1	J	L	kg
3	M3x0,5	3218 03 09	6,2	9,5	4	6	12,5	0,002
3	M5x0,8	3218 03 19	6,2	10,5	4,5	8	15	0,005

tube-to-tube fittings

3206 equal tube/tube connector

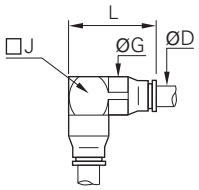
nickel-plated brass



ØD		G	L	kg
3	3206 03 00	6,2	17	0,002

3202 equal elbow

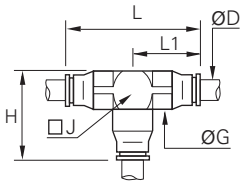
nickel-plated brass



ØD		G	J	L	kg
3	3202 03 00	6,2	6	13,5	0,003

3204 equal tee

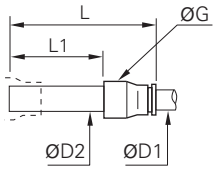
nickel-plated brass



ØD		G	J	H	L	L1	kg
3	3204 03 00	6,2	6	13,5	20,5	10,5	0,004

3266 4 mm to 3 mm reducer

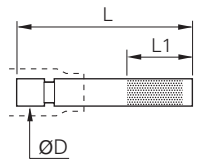
nickel-plated brass body, plastic stem



ØD1	ØD2		G	L	L1	kg
3	4	3266 03 04	6,2	28	19	0,001

3226 blanking plug

nickel-plated brass



ØD		J	L1	kg
3	3226 03 00	20	10	0,001

3 mm miniature flow regulators can be found on page B9
3 mm push-in fittings allow connection with various plastic tubing presented in this catalogue :

- semi-rigid nylon tubing
  3 mm O.D.
- flexible polyurethane tubing
  3 mm O.D.

pneumatic function fittings

legris connectic

pneumatic function fittings

Legris Pneumatic Function Fittings are compact, user-friendly and meet today's industrial needs perfectly.

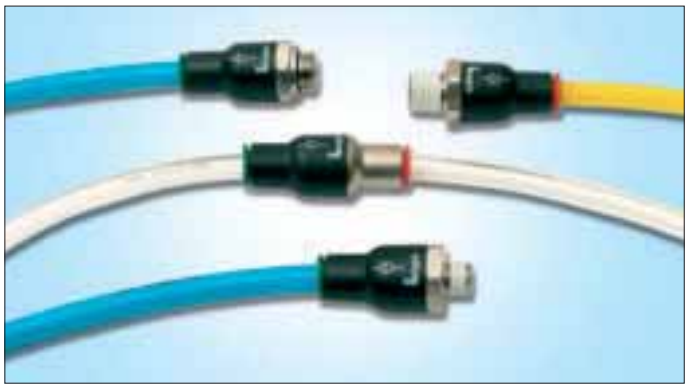
controlling air circulation

Blocking fittings lock a piston by simultaneously cutting off the supply and exhaust. Functional locks are more precise and rapid when blocking fittings are located on the cylinder: the volume of air between cylinder and valve no longer needs to be taken into consideration.

regulating air flow

Flow control regulators control the speed of a pneumatic cylinder. The exhaust air flow is controlled by an adjustable restrictor. The inlet flow is unrestricted full bore.

controlling the passage of fluid in one direction and non-return in the other



Non-return valves maintain the pressure of the air in an installation in the event of accidental cut of supply or enable the removal of tube from the fitting. They allow air to pass in one direction whilst blocking flow in the other direction.

progressive pressurising of circuits

Pneumatic soft start fittings allow air pressure to gradually increase when a compressed air line is restarted after it has been vented.

detecting pressure drop

Sensor fittings detect pressure drops. They produce an end-of-stroke signal when the exhaust back pressure in the cylinder disappears, thus enabling a cylinder to reciprocate.

exhausting system and controlling pneumatic circuit supply

Manual switch operated vent fittings guarantee immediate isolation of the air line by venting downstream system pressure to atmosphere by a simple manual operation of the lever.

pneumatic function fittings

In the field of industrial automation many functions can be controlled by purpose designed fittings. **Legris Pneumatic Function Fittings** have been developed to perform such functions described below.

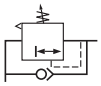
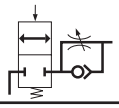
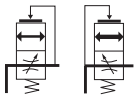
regulating pressure

Pressure regulator fittings are used to stabilize, at a given value, the pressure applied to pneumatic equipment whatever the fluctuations of pressure upstream.

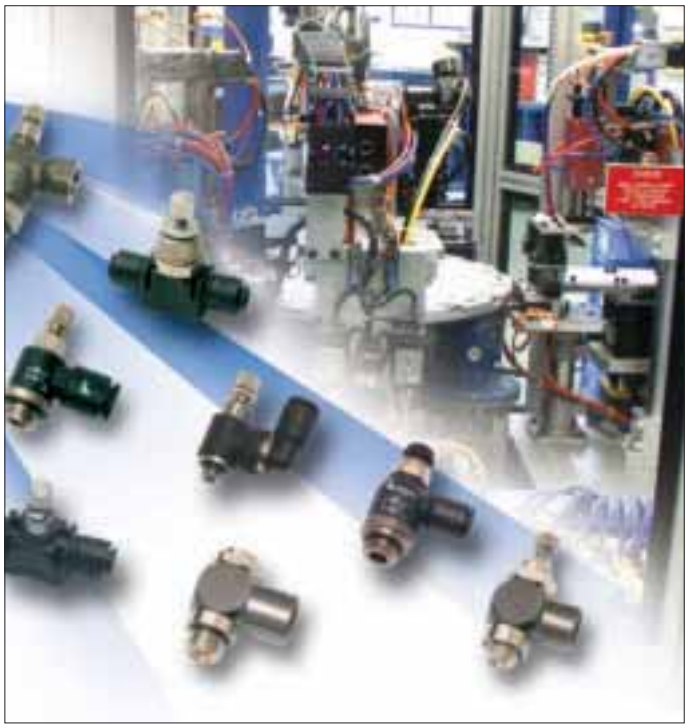
reducing pressure supply

Pressure reducer fittings provide the cylinder with a circuit pressure reduced to a value determined by manual /visual adjustment.

symbols of Legris pneumatic function fittings

regulating air flow		**detecting** pressure drop	
controlling air circulation		**regulating** pressure by stabilizing at a requi-red value	
controlling and **regulating** air flow		**reducing** pressure supply	
controlling the passage of fluid in one direction and non-return in the other		**progressive** pressurising of circuits	
exhausting system and **controlling** pneumatic circuit supply		**isolating a circuit** without venting the whole installation	

principle of flow control regulators



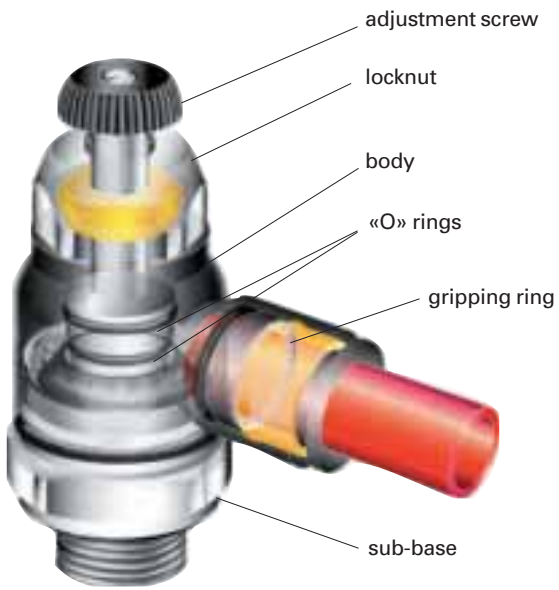
Legris **flow control regulators** control the speed of a pneumatic cylinder.
Depending upon the model, Legris flow regulators may be fitted to the cylinder or in the compressed air line. However, flow regulation (and therefore a cylinder displacement speed) is more **precise** and **constant** when positioned near to the cylinder: in this way, it is possible to avoid the elastic effect of the compressed air contained in the pipework between the control valve and cylinder.
Direct mounting of a banjo flow regulator fitting **onto the cylinder** is therefore the **optimum solution**.
The large range of Legris flow control regulators answers the specific needs of modern pneumatic applications.

benefits of Legris flow control regulators :

- perfectly controlled **sealing** both externally (tube outlet and sub-base) and internally (adjustment screw)
- **stability**, progressiveness and accuracy of flow
- LF 3000 **instant connection** ensures quick assembly
- designed for easy adjustment

technical specifications

Reliable performance is dependent upon the tube being used, ambient temperature and fluid conveyed together with the component materials of the fitting.



Legris flow control regulator flow curves can be found at the end of section B.

working fluid	compressed air For use of other fluids: please consult us						
working pressure	1 to 10 bar						
working temperature	0° to + 70°C						
constituent materials	**body :** depending upon the model - polymer H.R. - brass **gripping ring :** stainless steel **adjustment screw :** nickel-plated brass **locking nut :** nickel-plated brass **sub-base :** nickel-plated brass						
maximum tightening torque of flow control regulators, BSP parallel and metric	thread	M3 x0,5	M5 x0,8	G1/8"	G1/4"	G3/8"	G1/2"
	m. da N	0,06	0,16	0,8	1,2	3	3,5
parallel threads according to norms NFE3-005 – ISO 228-1 – BS 2779 – DIN 259							

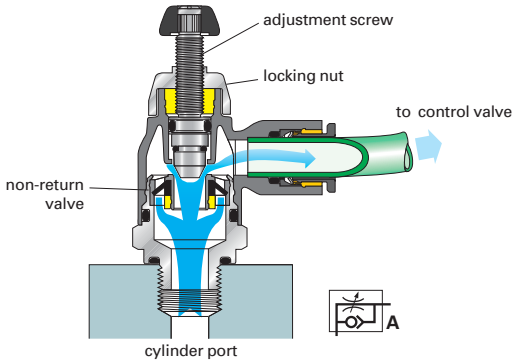
principle of operation

Depending on the version, Legris flow control regulators may be **one-way** or **bi-directional**.
In the one-way exhaust version, the exhaust air flow is controlled by an adjustable restrictor. The inlet flow is unrestricted full bore.

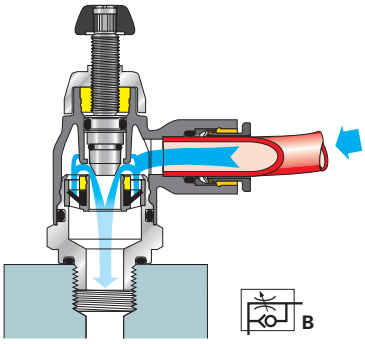
In a bi-directional version, both exhaust and supply flow are controlled.

with external screw

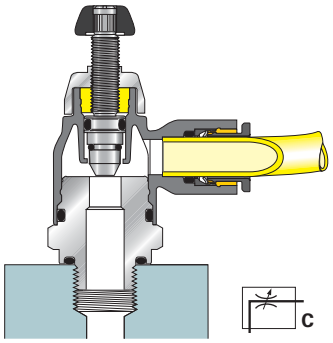
one-way «exhaust» version



one-way «supply» version

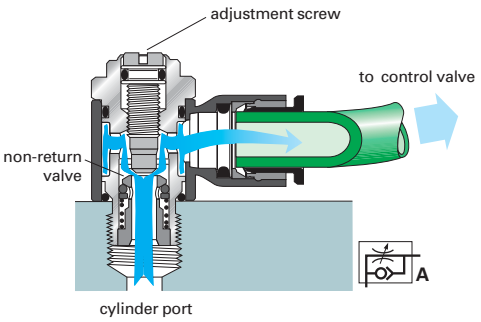


bi-directional version

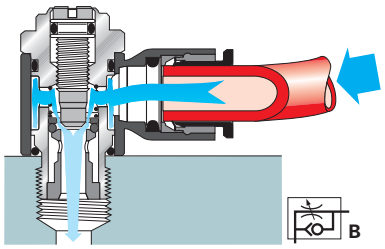


with recessed screw

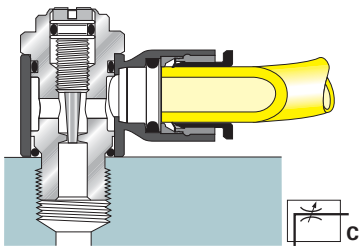
one-way «exhaust» version



one-way «supply» version

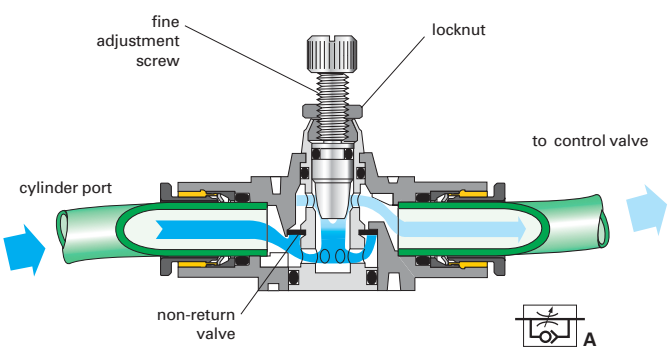


bi-directional version

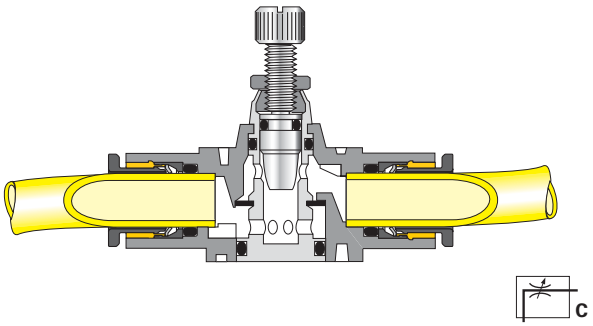


in-line type

one-way version



bi-directional version



To assist differentiation, each version is identified by the corresponding pneumatic symbol and a letter :

- **one-way** adjustment
  - **«exhaust»** version : letter **A**
  - **«supply»** version : letter **B**
- **bi-directional** adjustment : letter **C**

Choosing a flow control regulator

The large range of Legris flow control regulators answers the specific needs of modern pneumatic applications. Select the model required by your application according to

5 main criteria :

conditions of use

- **standard** conditions → models in **engineering grade polymer**
- **severe** conditions → models in **metal**

type of fitting

- for connection to the **cylinder** or **threaded control valve**
  - → models with BSP and metric **threads** for the European market
  - → models with BSP taper **thread** for Asian and American markets
- for connection to a **cylinder** or **manifold fitted with cartridge connections** → **plug-in** models

dimensions

- **standard** applications requiring **full flow performance** → **compact** models
- for **very small** cylinders requiring precise and accurate adjustment → **miniature** models

type of adjustment

- for **manual adjustment** with lock nut guaranteeing **stability of adjustment** → models with **external screw**
- for **adjustment with screwdriver** and prevention of unwanted adjustment → models with **recessed screw**

configuration of the installation

- for **standard** applications → **banjo** types
- for **vertical or angled tube exit** → **swivel** outlet types
- **where cylinder** access is difficult or where another function fitting is attached to the cylinder port → **in-line** types

standard range of pneumatic function fittings

flow control regulators – engineering grade polymer, BSP parallel and metric

banjo with recessed screw

7010-7011-7012
page B8

banjo with external screw

7060-7061-7062
compact
page B9

7660-7662-7669
miniature
page B9

swivel outlet types

7040-7041
compact
page B10

7640-7649
miniature
page B10

in-line types

7771
with threaded connections
page B10

7020
with male threads
page B10

7770-7772
with LF 3000 push-in connections
page B11

7776
with LF 3000 push-in connections, panel mountable
page B11

plug-in types

7030-7031
compact
page B11

7630-7631
miniature
page B11

flow control regulators – engineering grade polymer, BSP taper

with external screw

7065-7066-7067
compact
page B12

7665-7668
miniature
page B12

swivel outlet types

7045
compact
page B13

7645
miniature
page B13

flow control regulators – metal, BSP parallel and metric

with recessed screw

7130
with push-in connection
page B14

7140
with threaded fitting
page B14

7160
with universal brass compression fitting
page B14

7762
with universal brass compression fitting
page B14

in-line types

7170
with threaded connections / panel mountable
page B14

with external screw

7100-7101
compact, with push-in connection
page B15

7680
compact, with push-in connection
page B15

7180
miniature, with push-in connection
page B15

7110-7111
compact, with threaded fitting
page B15

7190
miniature, with threaded fitting
page B15

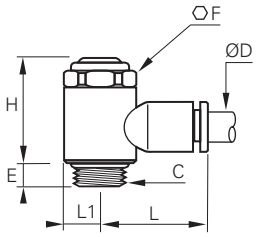
The complete range of other pneumatic function fittings can be found on page B17.
For stainless steel versions, please refer to page G4.

flow control regulators – polymer version

banjo with recessed screw, BSP parallel and metric

7010-7011-7012 with recessed adjustment screw, BSP parallel and M5

body – polymer H.R.



ØD	C	exhaust (A)	supply (B)	bi-directional (C)
4	M5x0,8	7010 04 19	7011 04 19	7012 04 19
4	G1/8	7010 04 10	7011 04 10	7012 04 10
6	M5x0,8	7010 06 19	7011 06 19	7012 06 19
6	G1/8	7010 06 10	7011 06 10	7012 06 10
6	G1/4	7010 06 13	7011 06 13	7012 06 13
8	G1/8	7010 08 10	7011 08 10	7012 08 10
8	G1/4	7010 08 13	7011 08 13	7012 08 13
8	G3/8	7010 08 17	7011 08 17	7012 08 17
10	G1/4	7010 10 13	7011 10 13	
10	G3/8	7010 10 17	7011 10 17	
10	G1/2	7010 10 21		
12	G3/8	7010 12 17		
12	G1/2	7010 12 21		

maximum tightening torque of models with recessed screw	thread	M5 x0,8	G1/8“	G1/4“	G3/8“	G1/2“
	da Nm	0,1	0,4	0,5	0,6	0,7

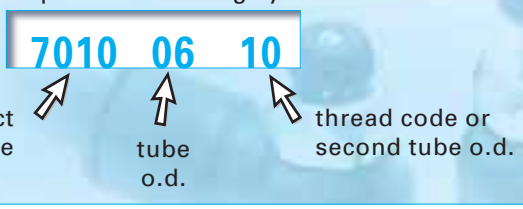
ØD	C	E	F	H	L	L1	kg
4	M5x0,8	4	8	17,5	17	5	0,007
4	G1/8	5	13	25	19	7	0,017
6	M5x0,8	4	8	17,5	19	5	0,017
6	G1/8	5	13	25	21	7	0,019
6	G1/4	8	17	26,5	22	9,5	0,034
8	G1/8	5	13	25	26	7	0,020
8	G1/4	8	17	26,5	27	9,5	0,035
8	G3/8	7,5	20	37,5	29	11,2	0,042
10	G1/4	8	17	26,5	29	9,5	0,038
10	G3/8	7,5	20	37,5	31	11,2	0,043
10	G1/2	8	23	43	37	13,5	0,117
12	G3/8	7,5	20	37,5	34,5	11,2	0,045
12	G1/2	8	23	43	37	13,5	0,111

Identification

Part numbers have been chosen by a method of mnemonics.
Each fitting is identified by:

- product type
- the outside diameter of the tube
- the thread code or second tube o.d.

Example of numbering system

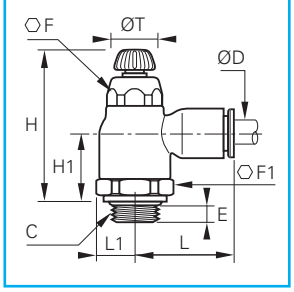


flow control regulators – polymer version

banjo with external screw, BSP parallel and metric

7060-7061-7062 «compact», BSP parallel

body – polymer H.R.

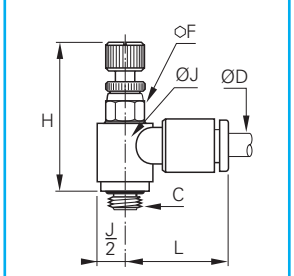


ØD	C	exhaust (A)	supply (B)	bi-directional (C)
4	G1/8	7060 04 10	7061 04 10	7062 04 10
6	G1/8	7060 06 10	7061 06 10	7062 06 10
6	G1/4	7060 06 13	7061 06 13	7062 06 13
8	G1/8	7060 08 10	7061 08 10	7062 08 10
8	G1/4	7060 08 13	7061 08 13	7062 08 13
8	G3/8	7060 08 17	7061 08 17	7062 08 17
10	G1/4	7060 10 13	7061 10 13	
10	G3/8	7060 10 17	7061 10 17	
12	G3/8	7060 12 17		
12	G1/2	7060 12 21	7061 12 21	

ØD	C	E	F	F1	H mini	H maxi	H1	L	L1	T	kg
4	G1/8	5	10	16	38	44	16	22	9	10	0,021
6	G1/8	5	10	16	38	44	16	22	9	10	0,021
6	G1/4	5,5	10	16	36,5	42,5	15	22	9	10	0,021
8	G1/8	4,5	14	19	41,5	48	18	28	10,5	12	0,035
8	G1/4	5,5	14	19	41,5	48	18,5	28	10,5	12	0,037
8	G3/8	5,5	14	19	41,5	48	17	28	11	12	0,037
10	G1/4	5,5	17	23	45,5	53,5	20	31,5	12,5	17	0,057
10	G3/8	5,5	17	23	45,5	54	20	31,5	12,5	17	0,059
12	G3/8	5,5	17	23	45,5	54	20	35	12,5	17	0,063
12	G1/2	7,5	17	24	45,5	54	20	35	13	17	0,065

7660-7669-7662 ultrafine / “miniature”, BSP parallel and metric

body – polymer H.R.



ØD	C	exhaust (A)	supply (B)	bi-directional (C)
3	M3x0,5	7660 03 09	7669 03 09	
3	M5x0,8	7660 03 19	7669 03 19	
4	M3x0,5	7660 04 09		
4	M5x0,8	7660 04 19	7669 04 19	7662 04 19
4	G1/8	7660 04 10	7669 04 10	7662 04 10
6	M5x0,8	7660 06 19	7669 06 19	7662 06 19
6	G1/8	7660 06 10	7669 06 10	7662 06 10
6	G1/4	7660 06 13	7669 06 13	7662 06 13
8	G1/8	7660 08 10	7669 08 10	
8	G1/4	7660 08 13	7669 08 13	
8	G3/8	7660 08 17	7669 08 17	

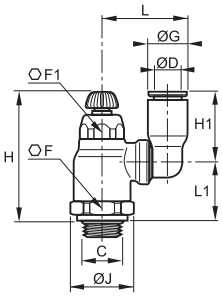
Ø D	C	F	H mini	H maxi	J	L	kg
3	M3x0,5	6	23,5	26	9	17	0,008
3	M5x0,8	6	23,5	26	9	17	0,008
4	M3x0,5	6	23,5	26	9	16,5	0,007
4	M5x0,8	6	23,5	26	9	17	0,008
4	G1/8	7	27	29,5	11,5	18	0,012
6	M5x0,8	6	23,5	26	9	18	0,010
6	G1/8	7	27	29,5	11,5	18,5	0,012
6	G1/4	8	30	32,5	12	19	0,019
8	G1/8	13	26,5	31	14	26	0,020
8	G1/4	16	29	34	19	27,5	0,022
8	G3/8	20	36	42	23	29	0,025

flow control regulators – polymer version

swivel outlet types, BSP parallel and metric

7040-7041 «compact», BSP parallel

body – polymer H.R.

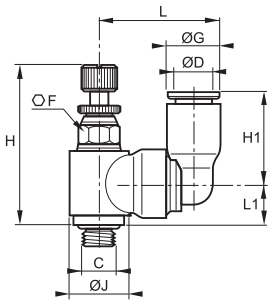


ØD	C	exhaust (A)	supply (B)
6	G1/8	7040 06 10	
6	G1/4	7040 06 13	7041 06 13
8	G1/8	7040 08 10	7041 08 10
8	G1/4	7040 08 13	7041 08 13
8	G3/8	7040 08 17	
10	G1/4	7040 10 13	
10	G3/8	7040 10 17	
12	G3/8	7040 12 17	
12	G1/2	7040 12 21	

ØD	C	F	F1	ØG	H mini	H maxi	H1	ØJ	L	L1	kg
6	G1/8	16	10	10,5	38	44	16	17,5	23,5	18	0,026
6	G1/4	16	10	10,5	36,5	42,5	16	17,5	23,5	16,5	0,029
8	G1/8	19	14	13,5	41,5	48	23	21	28	19	0,035
8	G1/4	19	14	13,5	41,5	48	23	21	28	19,5	0,039
8	G3/8	19	14	13,5	41,5	48	23	22	28	17,5	0,043
10	G1/4	23	17	16	45,5	53,5	26,5	25	35	21	0,051
10	G3/8	23	17	16	45,5	54	26,5	25	35	21,5	0,063
12	G3/8	23	17	19	45,5	54	30,5	25	38	21,5	0,066
12	G1/2	24	17	19	45,5	54	30,5	26	38	21	0,071

7640-7649 ultrafine/ «miniature», BSP parallel and metric

body – polymer H.R.



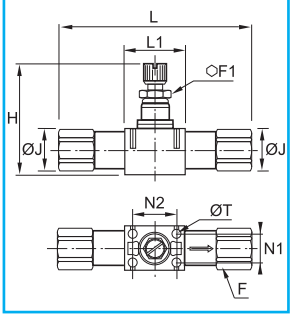
ØD	C	exhaust (A)	supply (B)
4	M5x0,8	7640 04 19	7649 04 19
4	G1/8	7640 04 10	7649 04 10
6	M5x0,8	7640 06 19	7649 06 19
6	G1/8	7640 06 10	7649 06 10

ØD	C	F	ØG	H mini	H maxi	H1	ØJ	L	L1	kg
4	M5x0,8	6	8,5	24,5	27,5	14,5	9,5	19,5	6,5	0,011
4	G1/8	7	8,5	27,5	31	14,5	11,5	20	8,5	0,015
6	M5x0,8	6	10,5	24,5	27,5	16	9,5	21,5	6,5	0,013
6	G1/8	7	10,5	27,5	31	16	11,5	22	8,5	0,015

in-line types, BSP parallel

7771 «in-line» with threaded connections, BSP parallel

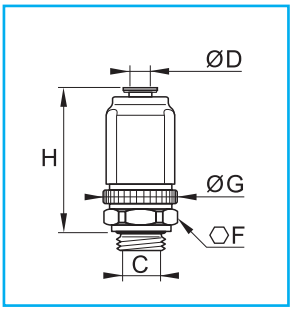
body – polymer H.R.



C	exhaust (A)
G1/8	7771 10 10
G1/4	7771 13 13
G3/8	7771 17 17
G1/2	7771 21 21

C	F	F1	H maxi	J	L	L1	N1	N2	ØT	kg
G1/8	13	8	44,5	14	68,5	23	11	17	3,2	0,043
G1/4	16	11	50	17,5	83	26	12,5	20	3,2	0,103
G3/8	19	14	61	21	97	33	16	26	4,2	0,160
G1/2	24	14	67,5	26	121	35	20	27,5	4,2	0,247

7020 male BSP parallel, with push-in connection



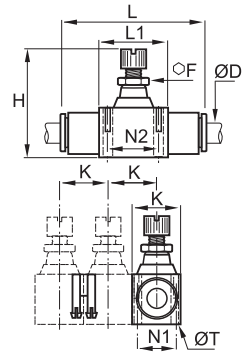
ØD	C	exhaust (A)	F	ØG	H max.	kg
4	G1/8	7020 04 10	18	21,5	44	0,060
6	G1/8	7020 06 10	18	21,5	44	0,060
6	G1/4	7020 06 13	18	21,5	44	0,060
8	G1/8	7020 08 10	24	27	52,5	0,110
8	G1/4	7020 08 13	24	27	52,5	0,110

flow control regulators – polymer version

in-line types

7770-7772 «in-line» with LF 3000 push-in connections

body – polymer H.R.

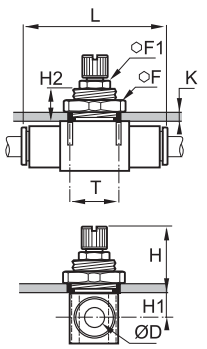


ØD	exhaust (A)	bi-directional (C)
4	7770 04 00	7772 04 00
6	7770 06 00	7772 06 00
8	7770 08 00	7772 08 00
10	7770 10 00	
12	7770 12 00	

ØD	DN	F	H mini	H maxi	K	L	L1	N1	N2	T	kg
4	3	5	29,5	33,5	12	39	15	8	11	2,2	0,012
6	4	8	39,5	44,5	17	54	23	11	17	3,2	0,030
8	6	11	44	50	18,5	60,5	26	12,5	20	3,2	0,047
10	8	14	52	61	24	76	33	16	26	4,2	0,103
12	10	14	57,5	67,5	28	86	35	20	27,5	4,2	0,138

7776 «in-line» with LF 3000 push-in connections, panel mountable

body – polymer H.R.



ØD	exhaust (A)
4	7776 04 00*
6	7776 06 00*
8	7776 08 00
10	7776 10 00
12	7776 12 00

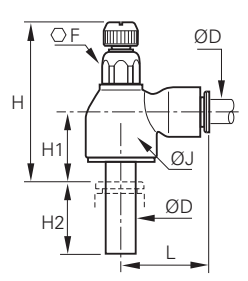
ØD	F	F1	H maxi	H maxi	H1	H2	K maxi	L1	T	kg
4	14	-	21,5	25,5	6,5	11	6	39	2,2	0,012
6	19	-	27,5	32,5	7,5	13,5	7	54	3,2	0,030
8	24	11	28,5	34,5	9	13,5	7	60,5	3,2	0,047
10	30	14	29,5	38,5	11,5	13,5	7	76	4,2	0,103
12	32	14	32	42	12,5	15,5	8	86	4,2	0,138

*ultrafine adjustment

plug-in types

7030-7031 «plug-in», «compact»

body – polymer H.R.

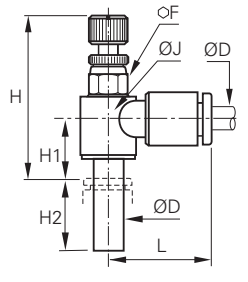


ØD	exhaust (A)	supply (B)
6	7030 06 00	7031 06 00
8	7030 08 00	7031 08 00
10	7030 10 00	7031 10 00
12	7030 12 00	7031 12 00

ØD	F	H mini	H maxi	H1	H2	J	L	kg
6	10	35	41	14	17	16	22	0,019
8	14	39,5	46,5	16	21,5	19	28	0,035
10	17	43,5	51,5	17,5	24,5	23	31,5	0,055
12	17	43	51	17	27	23	31,5	0,060

7630-7631 "plug-in", "miniature"

body – polymer H.R.



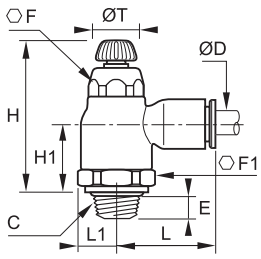
ØD	exhaust (A)	supply (B)
4	7630 04 00	7631 04 00
6	7630 06 00	7631 06 00

ØD	F	H mini	H maxi	H1	H2	J	L	kg
4	6	25,5	28	9,5	15,5	9	17	0,007
6	7	27,5	29	10,5	17	11,5	18,5	0,011

flow control regulators – polymer version
with external screw, BSP taper

7065-7066-7067 «compact», BSP taper

body – polymer H.R.

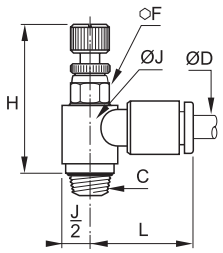


ØD	C	exhaust (A)	supply (B)	bi-directional (C)
4	R1/8			7067 04 10
6	R1/8	7065 06 10		7067 06 10
6	R1/4			7067 06 13
8	R1/8	7065 08 10		7067 08 10
8	R1/4	7065 08 13		7067 08 13
8	R3/8			7067 08 17
10	R1/4	7065 10 13	7066 10 13	
10	R3/8	7065 10 17	7066 10 17	
10	R1/2	7065 10 21	7066 10 21	
12	R1/4	7065 12 13	7066 12 13	
12	R3/8	7065 12 17	7066 12 17	
12	R1/2	7065 12 21	7066 12 21	

ØD	C	F	F1	H mini	H maxi	H1	L	L1	T	kg
4	R1/8	10	16	36,5	42,5	14,5	22	9	10	0,021
6	R1/8	10	16	36,5	42,5	15	22	8	10	0,021
6	R1/4	10	16	36,5	42,5	15	22	9	10	0,021
8	R1/8	14	19	40	45	16,5	27	10,5	14	0,034
8	R1/4	14	19	40	45	16,5	27	10,5	14	0,036
8	R3/8	14	19	40	45	16,5	27	11	14	0,042
10	R1/4	17	23	43,5	51,5	18	31,5	12,5	17	0,053
10	R3/8	17	23	43,5	51,5	18	31,5	12,5	17	0,055
10	R1/2	17	23	43,5	51,5	18	31,5	12,5	17	0,059
12	R1/4	17	23	43,5	51,5	18	35	12,5	17	0,056
12	R3/8	17	23	43,5	51,5	18	35	12,5	17	0,059
12	R1/2	17	23	43,5	51,5	18	35	12,5	17	0,164

7665-7668 ultrafine/ “miniature”, BSP taper

body – polymer H.R.



ØD	C	exhaust (A)	supply (B)
4	R1/8	7665 04 10	7668 04 10
6	R1/8	7665 06 10	7668 06 10
6	R1/4	7665 06 13	7668 06 13
6	R3/8	7665 06 17	
8	R1/8	7665 08 10	7668 08 10
8	R1/4	7665 08 13	7668 08 13
8	R3/8	7665 08 17	7668 08 17

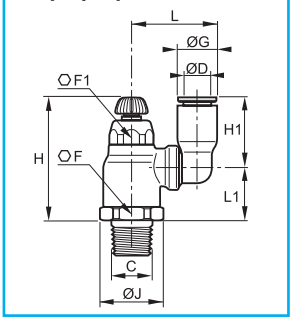
ØD	C	F	H mini	H maxi	J	L	kg
4	R1/8	7	25	27,5	11,5	18	0,011
6	R1/8	7	25	27,5	11,5	18,5	0,012
6	R1/4	8	27,5	30	13,5	19	0,019
6	R3/8	17	31,5	34	13,5	19	0,025
8	R1/8	13	24	28,5	14	16	0,021
8	R1/4	16	25	29	19	27,5	0,033
8	R3/8	20	30	36	23	29	0,061

flow control regulators – polymer version

swivel outlet types, BSP taper

7045 «compact», BSP taper

body – polymer H.R.

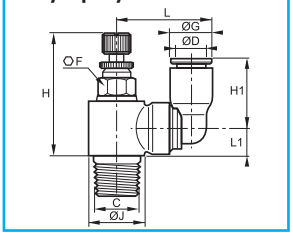


ØD	C	exhaust (A)
6	R1/4	7045 06 13
8	R1/8	7045 08 10
8	R1/4	7045 08 13
8	R3/8	7045 08 17
10	R1/4	7045 10 13
10	R3/8	7045 10 17
12	R3/8	7045 12 17
12	R1/2	7045 12 21

ØD	C	F	F1	ØG	H mini	H maxi	H1	ØJ	L	L1	kg
6	R1/4	16	10	10,5	36,5	42,5	16	17,5	23,5	16,5	0,026
8	R1/8	19	14	13,5	40	46	23	21	28	17,5	0,034
8	R1/4	19	14	13,5	40	46	23	21	28	17,5	0,043
8	R3/8	19	14	13,5	40	46	23	21	28	17,5	0,044
10	R1/4	23	17	16	43,5	51,5	26,5	25	34	19,5	0,062
10	R3/8	23	17	16	43,5	51,5	26,5	25	34	19,5	0,065
12	R3/8	23	17	19	43,5	51,5	31	25	37	19,5	0,067
12	R1/2	23	17	19	43,5	51,5	31	25	37	19,5	0,070

7645 «miniature», BSP taper

body – polymer H.R.



ØD	C	exhaust (A)
4	R1/8	7645 04 10
6	R1/8	7645 06 10

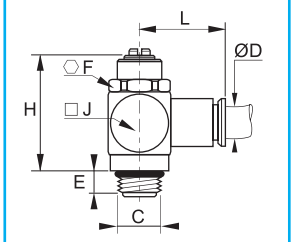
ØD	C	F	ØG	H mini	H maxi	H1	ØJ	L	L1	kg
4	R1/8	7	8,5	25	28,5	14,5	11,5	20	6	0,012
6	R1/8	7	10,5	25	28,5	16	11,5	22	6	0,014

flow control regulators – metal version

with recessed screw, BSP parallel and metric

7130 with push-in connection and recessed adjustment screw - BSP parellel M5 thread

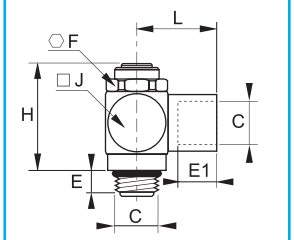
treated brass body



ØD	C	exhaust (A)	E	F	H	J	L	kg
4	M5x0,8	7130 04 19	4	8	17	9	19	0,015
4	G1/8	7130 04 10	5	13	34	15	20	0,018
6	M5x0,8	7130 06 19	4	8	17	9	24	0,017
6	G1/8	7130 06 10	5	13	34	15	22	0,022
6	G1/4	7130 06 13	8	17	39	18	24	0,027
8	G1/8	7130 08 10	5	13	34	15	25	0,035
8	G1/4	7130 08 13	8	17	39	18	28	0,040
8	G3/8	7130 08 17	7	20	47	21,5	29	0,049
10	G1/4	7130 10 13	8	17	39	18	30	0,054
10	G3/8	7130 10 17	7	20	47	21,5	32	0,060
10	G1/2	7130 10 21	8	23	61	28	34	0,067
12	G3/8	7130 12 17	7	20	47	22	36	0,075
12	G1/2	7130 12 21	8	23	61	28	38	0,087

7140 with threaded fitting and recessed adjustment screw - BSP parallel and M5 thread

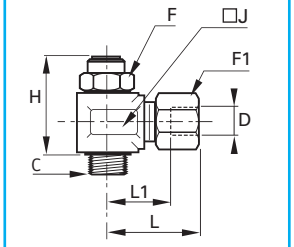
treated brass body



C	exhaust (A)	E	E1	F	H	J	L	kg
M5x0,8	7140 19 19	4	4	8	21	9	11	0,018
G1/8	7140 10 10	5	8	13	32	15	17	0,024
G1/4	7140 13 13	8	12	17	39	18	24	0,036
G3/8	7140 17 17	7	12	20	47	21,5	27	0,044
G1/2	7140 21 21	8	15	23	61	28	31	0,062

7160 with universal brass compression fitting and recessed adjustment screw - BSP parallel thread

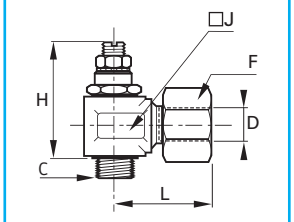
treated brass body



ØD	C	exhaust (A)	F	F1	H	J	L	L1	kg
4	G1/8	7160 04 10	13	10	26	17	25,5	14,5	0,050
6	G1/8	7160 06 10	13	13	26	17	25,5	14,5	0,054
6	G1/4	7160 06 13	17	13	31,5	22	28,5	17,5	0,108
8	G1/8	7160 08 10	13	14	26	17	29,5	15,5	0,054
8	G1/4	7160 08 13	17	14	31,5	22	31	17	0,109
10	G1/4	7160 10 13	17	19	31,5	22	35	19	0,119
10	G3/8	7160 10 17	20	19	44,5	22	37,5	19	0,186
10	G1/2	7160 10 21	23	19	50	27	37,5	19	0,201
12	G3/8	7160 12 17	20	22	44,5	22	38	21,5	0,195
12	G1/2	7160 12 21	23	22	50	34	38	21,5	0,212

7762 with universal brass compression fitting and external adjustment screw - BSP parallel thread

brass body
bi-material washer

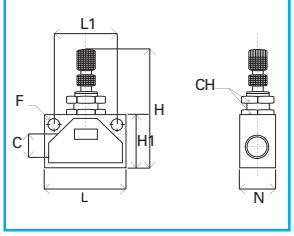


Ø D	C	exhaust (A)	F	H	J	L	kg
8	G1/8	7762 08 10*	14	40	17	28,5	0,054
10	G1/4	7762 10 13	19	44	22	36,5	0,125
14	G3/8	7762 14 17	24	65	27	37,5	0,215
18	G1/2	7762 18 21	30	68,5	34	44	0,403

*with adjustment knurl

7170 in-line type, panel mountable aluminium body

anodized
aluminium body



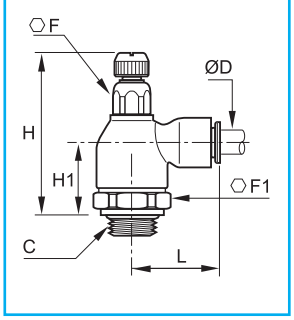
C	exhaust (A)	F	H mini	H maxi	H1	L	L1	N	ØT	kg
M5x0,8	7170 19 19	12	38	42	15	25	18	12	12	
G1/8	7170 10 10	15	49	56	22	35	24,7	18	15	
G1/4	7170 13 13	15	57	64	30	46	35	20	15	
G3/8	7170 17 17	22	62	73	30	50	35	25	22	
G1/2	7170 21 21	22	72	83	40	60	44	25	22	

flow control regulators – metal version

with external screw, BSP parallel and metric

7100-7101 "compact", with push-in connection, BSP parallel

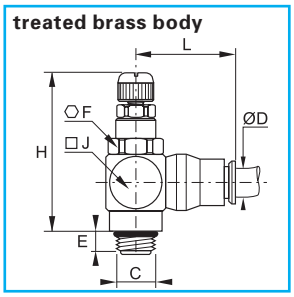
treated brass body



ØD	C	exhaust (A)	supply (B)	F	F1	H mini	H maxi	H1	L	kg
4	G1/8	7100 04 10	7101 04 10	10	19	47	53	23	21	0,076
6	G1/8	7100 06 10	7101 06 10	10	19	47	53	23	24,5	0,078
6	G1/4	7100 06 13	7101 06 13	10	19	47,5	53	23,5	24,5	0,082
8	G1/8	7100 08 10	7101 08 10	14	19	50	55	24,5	29	0,099
8	G1/4	7100 08 13	7101 08 13	14	19	50	56	25	29	0,100
8	G3/8	7100 08 17	7101 08 17	17	25	56	62	27	30,5	0,160
10	G1/4	7100 10 13		14	19	50	56	25	35	0,105
10	G3/8	7100 10 17		17	25	56	62	27	35	0,154
12	G3/8	7100 12 17		17	25	56	62	27	38	0,200
12	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

7680 "compact", with push-in connection, BSP parallel

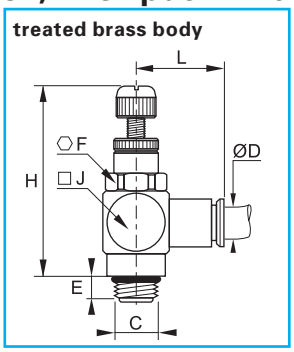
treated brass body



ØD	C	exhaust (A)	E	F	H maxi	J	L	kg
6	G1/8	7680 06 10	5	13	44	7,5	24,5	0, 005
8	G1/8	7680 08 10	5	13	44	7,5	25,5	0, 014
8	G1/4	7680 08 13	8	17	47	9	27	0, 005
10	G3/8	7680 10 17	7	20	62	11	34	0, 005
12	G1/2	7680 12 21	8	23	77	14	36,5	0, 005

7180 ultrafine/ «miniature», with push-in connection, BSP parallel and M5

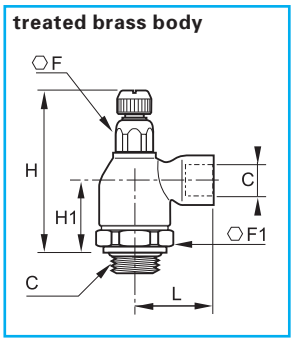
treated brass body



ØD	C	exhaust (A)	E	F	H maxi	J	L	kg
4	M5x0,8	7180 04 19	4	8	30	10	19	0,021
4	G1/8	7180 04 10	5	13	44	15	20	0,027
6	M5x0,8	7180 06 19	4	8	30	10	24	0,031
6	G1/8	7180 06 10	5	13	44	15	22	0,038
8	G1/8	7180 08 10	5	13	44	15	26	0,044

7110-7111 "compact", with threaded fitting, BSP parallel

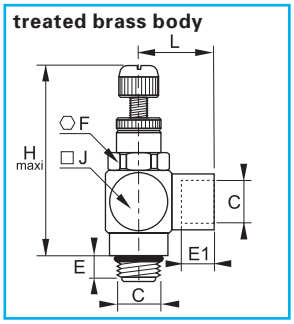
treated brass body



C	exhaust (A)	supply (B)	F	F1	H mini	H maxi	H1	L	kg
G1/8	7110 10 10	7111 10 10	10	19	47	52,5	23	22,5	0,076
G1/4	7110 13 13	7111 13 13	14	19	50,5	55,5	25	32	0,107
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	0,194

7190 ultrafine/ miniature», with threaded fitting, BSP parallel and M5

treated brass body



C	exhaust (A)	E	E1	F	H maxi	J	L	kg
M5x0,8	7190 19 19	4	4	8	30	10	11	0,022
G1/8	7190 10 10	5	8	13	44	15	17	0,028

pneumatic function fittings

Legris pneumatic fittings are designed to provide added value connection solutions.
They have an important part to play within many installations.

Here are a few examples:

To protect your installation

During an emergency stop of a pneumatic installation, blocking fittings are designed to maintain loads.
models **7880** – **7881** – **7885** – **7886** – **7883**

During the stop of a pneumatic installation, **pneumatic soft start fittings** allow air pressure to gradually increase.
models **7996** – **7984** – **7985** – **7995** – **7994**

In case of failure of the power supply, **non-return valves** allow air to pass in one direction whilst blocking flow in the other.
models **7860** – **7870** – **7861** – **7871**

To detect cylinder end-of-travel

Sensor fittings detect the cylinder end-of-travel and supply a signal to allow reciprocation.
model **7818** – **7828**

To adjust performance of your installation

In order to adjust pressure to the required value, **pressure regulator fittings** stabilize at a given value the pressure applied to pneumatic equipment, whatever the fluctuations of pressure upstream.
models **7300**

Pressure reducer fittings, enable manual adjustment of the circuit pressure applied to pneumatic equipment, limiting the system pressure..
models **7318** – **7471** – **7316** – **7416**

To control your installation

For immediate and direct opening/closure of a specific area of your installation supply, manual switch operated vent fittings require just a simple manual operation.
models **7800** – **7801** – **7802**

For increasing the cylinder rod displacement speed, allowing direct exhaust of compressed air.
models **7970 - 7971**

For immediate venting of a pneumatic circuit, pneumatic sleeve valves need only a straightforward lateral movement of the sleeve.
models **0669**

For closing and closure / purge of a pneumatic circuit, mini-ball valves are very easy to use where access is difficult and space is at a premium
models **7913** – **7914** – **7910** – **7911**

For any replacement of a component or tool, snap connectors can be used to isolate a circuit without venting the whole installation.
models **7926** – **7921** – **7960** – **7961**

standard range of pneumatic function fittings

blocking fittings

7880
parallel
page B19

7881
parallel
page B19

7885
parallel
page B19

7886
taper
page B19

7883
blocker/flow regulator
page B19

non-return valves

7996
in-line
page B21

7984 - 7994
parallel
page B21

7985 - 7995
taper
page B21

pneumatic soft start fittings

7860
isolating valve
page B23

7870
control valve
page B23

7861
isolating valve
page B23

7871
control valve
page B23

pneumatic soft start fittings

7818
isolating valve
page B25

7818
banjo
page B25

7828
control valve
page B25

pressure regulator fittings

7300
parallel
page B27

pressure reducer fittings

7318
banjo
page B29

7471
banjo
page B29

7316
in-line
page B29

7416
in-line
page B29

7000
page B29

7000
page B29

manually operated valves

7800 - 7801
manual switch 3/2
page B31

7802
manual switch 2/2
page B31

0669
sleeve valve
page B31

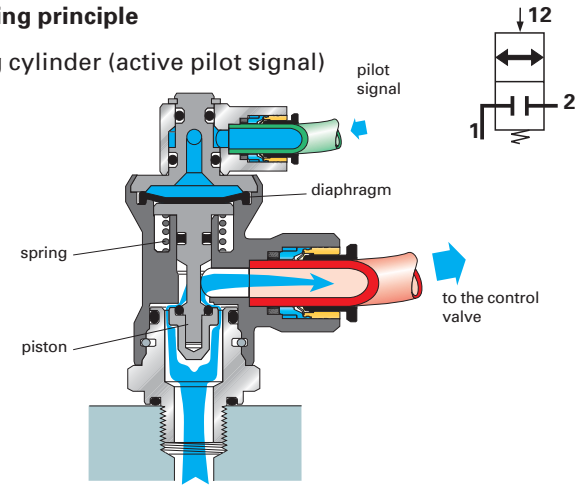
quick exhaust valves

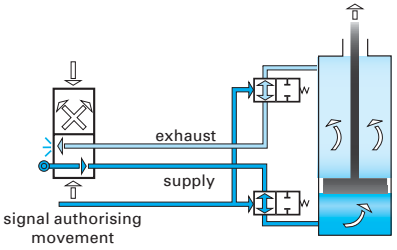
7970
elbow with threaded connections
page B33

7971
in-line with threaded connections
page B33

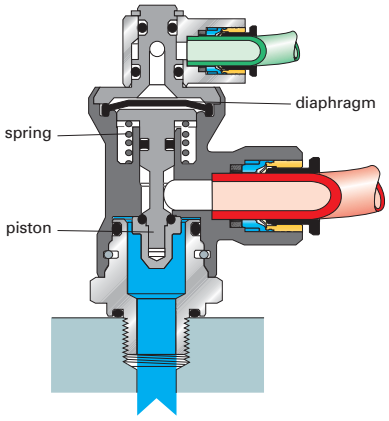
Operating principle

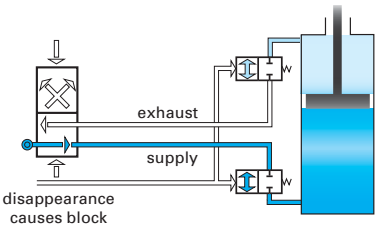
moving cylinder (active pilot signal)





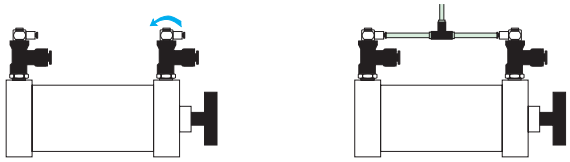
blocked cylinder (pilot signal removed)





Installation

Mounted in pairs, blocking fittings are installed directly on the cylinder.
As they can be fully swivelled, their use provides excellent flexibility in the design and installation of pneumatic circuits.



Legris blocking fittings – which are mounted **in pairs** on a cylinder- lock the piston by simultaneously cutting off the supply and exhaust. Functional locks are more precise and rapid when blocking fittings are located on the cylinder : the volume of air in the supply line no longer needs to be taken into consideration.

Legris blocking fittings are designed to offer **maximum flow capacity** and compactness (high flow performance and reduced external dimensions). They are fully orientable in order to facilitate system design and connection :
the pilot section and the sub-base can be swivelled after installation according to the circuit configuration required.
Manufactured in robust materials, they are compatible with aggressive environments due to their excellent resistance to saline atmosphere and sparks (model with threaded fitting). A tried and tested automatic sealing and tube gripping technology guarantees performance and reliability.

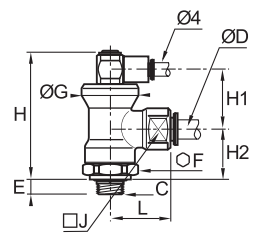
technical specifications of blocking fittings 7880-7881-7885-7886

working pressure	1 to 10 bar
working temperature	- 20° to + 70°C
number of cycles	> 10 million at 20°C and 1 Hz
constituent materials	**body** : treated brass **seals, diaphragm** : nitrile **gripping ring** : stainless steel

model	supply flow at 6 bar	pilot/depilot pressure (in bar) depending on the supply pressure					
			2 bar	4 bar	6 bar	8 bar	10 bar
o.d. 6 and 8 mm, threads G1/8 and G1/4 R1/8 and R1/4	650 Nl/min	pilot pressure	2,40	2,90	3,30	3,60	4,00
	650 Nl/min	depilot pressure	1,50	1,80	2,15	2,40	2,80
o.d. 10 and 12 mm, threads G3/8 and G1/2 R3/8 and R1/2	1600 Nl/min	pilot pressure	2,70	3,20	3,50	3,80	4,10
	1600 Nl/min	depilot pressure	1,40	1,80	2,10	2,40	2,70

7880 male thread BSP parallel, with push-in connection

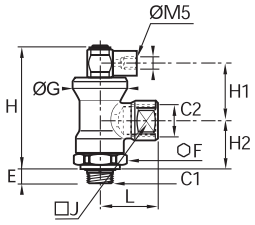
treated brass body



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	0,122
6	G1/4	7880 06 13	6,5	21	24	53	24,5	21	17	28	0,123
8	G1/4	7880 08 13	6,5	21	24	53	24,5	21	17	28	0,119
8	G3/8	7880 08 17	7,5	24	24	53	24,5	21	17	28	0,120
10	G3/8	7880 10 17	7,5	24	28	58	25	25	27	35	0,197
12	G1/2	7880 12 21	7,5	24	28	58	25	25	27	37,5	0,204

7881 male thread BSP parallel, with threaded fitting

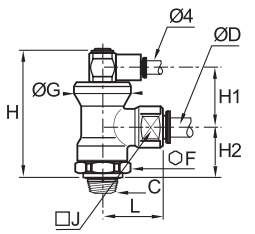
treated brass body



C1	C2		E	F	G	H	H1	H2	J	L	kg
G1/8	G1/4	7881 13 10	5	21	24	53	24,5	21	17	28	0,113
G1/4	G1/4	7881 13 13	5,5	21	24	53	24,5	21	17	28	0,115
G3/8	G3/8	7881 17 17	5,5	24	28	56	25	23	27	34	0,200
G1/2	G1/2	7881 21 21	7	24	28	56	25	23	27	41	0,209

7885 male BSP taper, with push-in connection

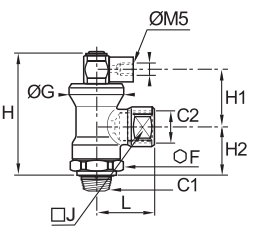
treated brass body



ØD	C		F	G	H	H1	H2	J	L	kg
6	R1/8	7885 06 10	21	24	51,5	25	20	17	28	0,123
6	R1/4	7885 06 13	21	24	51,5	25	20	17	28	0,126
8	R1/4	7885 08 13	21	24	51,5	25	20	17	28	0,121
8	R3/8	7885 08 17	21	24	51,5	25	20	17	28	0,126
10	R3/8	7885 10 17	24	28	57	25	24	27	35	0,205
12	R1/2	7885 12 21	21	28	57	25	24	27	37,5	0,205

7886 male BSP taper, with threaded fitting

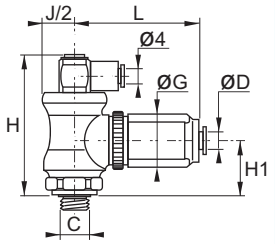
treated brass body



C1	C2		F	G	H	H1	H2	J	L	kg
R1/4	R1/8	7886 13 10	21	24	51,5	25	20	17	26,5	0,117
R1/4	R1/4	7886 13 13	21	24	51,5	25	20	17	26,5	0,120
R3/8	R3/8	7886 17 17	24	28	57	25	24	27	34	0,210
R1/2	R1/2	7886 21 21	24	28	57	25	24	27	40	0,224

7883 blocker/flow regulator with push-in connection

body polymer HR/brass with captive seal

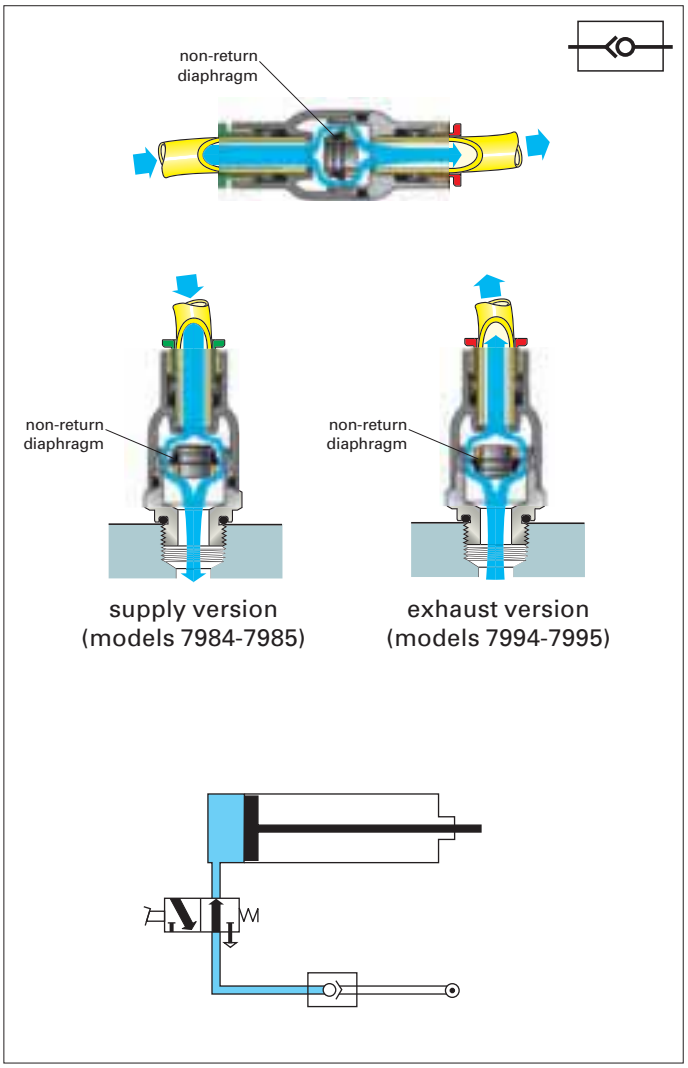


ØD	C		G	H	H1	J/2	L	kg
4	G1/8	7883 04 10	21,5	53	21	12	52	0,126
6	G1/8	7883 06 10	21,5	53	21	12	52	0,164
6	G1/4	7883 06 13	21,5	53	21	12	52	0,166
8	G1/4	7883 08 13	27	57,5	24,7	14	60	0,256
8	G3/8	7883 08 17	27	57,5	24,7	28	60	0,258

working temperature : - 15° to + 60°C

This fitting combines the functions of blocking and flow regulation, thus saving space and installation time.

non-return valves



Legris non-return valves allow air to pass in one direction whilst blocking flow in the other direction.

A pressure of more than 0.3 bar above the system pressure will overcome the diaphragm pressure, which keeps the valve closed, thus allowing the passage of air.

V ring technology ensures positive sealing, even when the fitting is submitted to vibration.

Their extreme compactness and light weight make them suitable as a safety item in compressed air circuits.

Legris non-return valves may be mounted upstream of the circuit.

The body of each fitting contains an arrow to indicate the direction of flow.

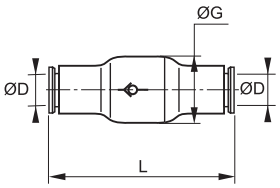
Technical specifications

Suitable fluid	compressed air	
Working pressure	1 to 10 bar	
Working temperature	0° to + 70°C	
flow characteristics	**model**	**air flow at 6 bar**
	ØD 4 mm	350 Nl/min
	ØD 6 mm	670 Nl/min
	ØD 8 mm	1080 Nl/min
	ØD 10 mm	2230 Nl/min
	ØD 12 mm	2300 Nl/min

You will also find stainless steel non return valves in page G5.

7996 in-line non-return valve with LF 3000® push-in connections

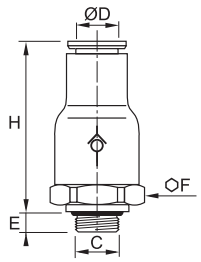
body – polymer H.R.
and nickel-plated brass



Ø D		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	0,018
10	7996 10 00	23	63,5	
12	7996 12 00	23	66,5	

7984-7994 with LF 3000® push-in connections, BSP parallel and metric

body – polymer H.R.
sub-base – nickel-plated brass



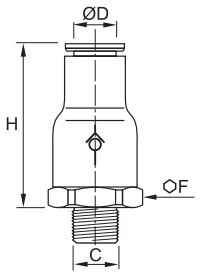
ØD	C	exhaust (A)	supply (B)
4	M5x0,8	7994 04 19	7984 04 19
4	G1/8	7994 04 10	7984 04 10
6	G1/8	7994 06 10	7984 06 10
6	G1/4	7994 06 13	7984 06 13
8	G1/8	7994 08 10	7984 08 10
8	G1/4	7994 08 13	7984 08 13
10	G3/8	7994 10 17	7984 10 17
12	G3/8	7994 12 17	7984 12 17
12	G1/2	7994 12 21	7984 12 21

B
A

ØD	C	E	F	H	kg
4	M5x8	3	9	32	0,023
4	G1/8	5	16	28,5	0,015
6	G1/8	5	16	30,5	0,015
6	G1/4	5,5	16	30,5	0,015
8	G1/8	5	19	36	0,021
8	G1/4	5,5	19	36	0,023
10	G3/8	5,5	23	42	0,024
12	G3/8	5,5	23	42	0,029
12	G1/2	7,5	23	44	0,034

7985-7995 with LF 3000® push-in connections, BSP taper

body – polymer H.R.
sub-base – nickel-plated brass



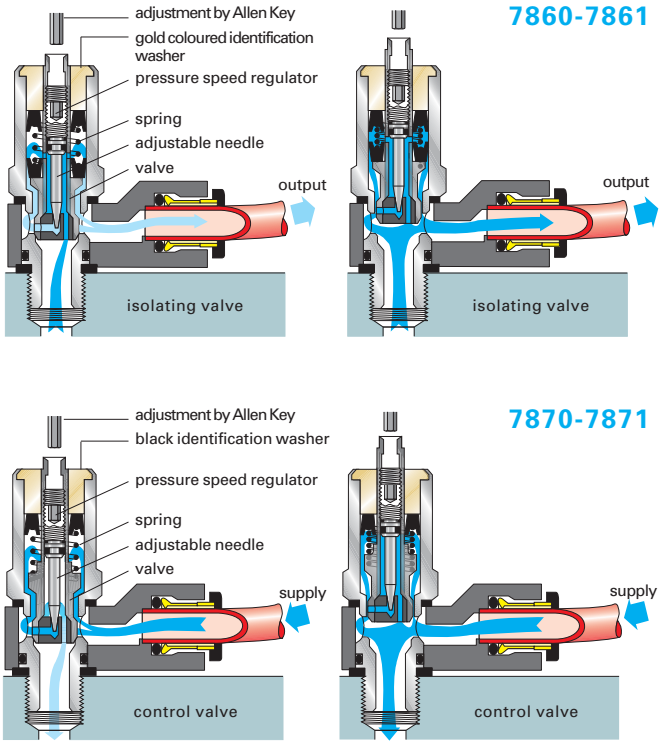
ØD	C	exhaust (A)	supply (B)
4	R1/8	7995 04 10	7985 04 10
6	R1/8	7995 06 10	7985 06 10
6	R1/4	7995 06 13	7985 06 13
8	R1/8	7995 08 10	7985 08 10
8	R1/4	7995 08 13	7985 08 13
10	R3/8	7995 10 17	7985 10 17
12	R3/8	7995 12 17	7985 12 17
12	R1/2	7995 12 21	7985 12 21

B
A

ØD	C	F	H	kg
4	R1/8	16	28,5	0,016
6	R1/8	16	30,5	0,016
6	R1/4	16	30,5	0,021
8	R1/8	19	36	0,022
8	R1/4	19	36	0,026
10	R3/8	23	42	0,027
12	R3/8	23	42	0,029
12	R1/2	23	44	0,034

pneumatic soft start fittings

principle of operation

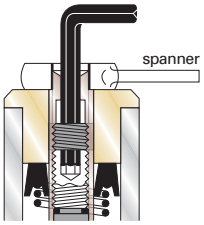


adjusting the speed of pressurisation

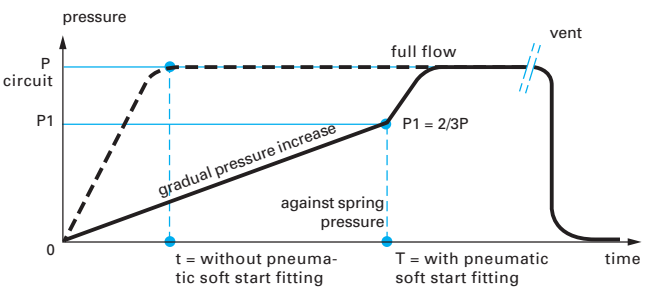
Adjusting the needle to regulate the flow of air optimises the time taken to pressurise depending on the air volume to be refilled and the system requirements.

To adjust :
- stop the piston turning with a spanner
- use an Allen Key to adjust the needle (1.5 key for 8 mm, 2.5 key for 10 and 12 mm)

maximum torque for use of allen key : 1,0 Nm



When the downstream pressure equals 2/3 of the supply pressure, full flow is automatically established.



These Function Fittings allow air pressure to **gradually increase** when a compressed air line is restarted after it has been vented for any reason (eg. at the end of work, after an emergency stop or when adjusting the system). This gradual pressure increase, or «soft start» **prevents shocks to the system** which can occur when full working pressure is immediately introduced,
thus saving wear and preventing injury to users or components.
Each cylinder thus protected gradually returns to the position it stopped in when the system was vented.

Types 7860/1 are mounted on the F.R.L. outlet. These versions protect the **whole downstream installation.**
All cylinders downstream of the soft start fitting pressurise simultaneously when the system is restarted after an emergency stop.
They return to their end-of-stroke position one after the other depending on their resistive forces.
Types 7870/1 are mounted to the supply port of the control valve or the common supply line of several associated valves.
Therefore the action of the fitting is immediate and **controls directly the designated cylinders.**
Thus the pressurisation speed of the control valve, or group of valves, can be adjusted to an optimum. When the system is pressurised after an emergency stop, cylinders return to their end-of-stroke position one after the other depending on their resistive forces.

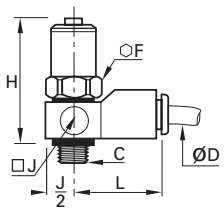
technical specifications of pneumatic soft start fittings

working temperature		- 15° to + 60°C
working pressure		3 to 10 bar
maximum tightening torque	**threads**	**da Nm**
	G1/4	1,3
	G3/8	1,5
	G1/2	1.8
model	**air 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

pneumatic soft start fittings

7860 for system isolating valve with LF 3000® push-in connection

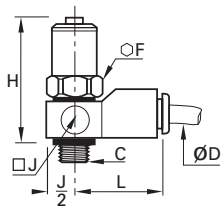
Body : engineering grade plastics
Vertical threaded
sub-assembly : nickel-plated brass with sealing washer



ØD	C		F	H maxi	H mini	J	L	kg
8	G1/4	7860 08 13	17	61	54	20	35	0,066
10	G1/4	7860 10 13	22	62	55	25	41	0,110
10	G3/8	7860 10 17	22	62	55	25	41	0,113
12	G3/8	7860 12 17	22	62	55	25	45	0,125
12	G1/2	7860 12 21	22	70,5	63,5	25	45	0,151

7870 for control valve with LF 3000® push-in connection

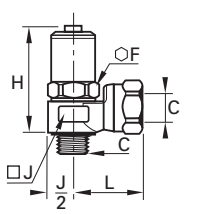
Body : engineering grade plastics
Vertical threaded
sub-assembly : nickel-plated brass with sealing washer



ØD	C		F	H maxi	H mini	J	L	kg
8	G1/4	7870 08 13	17	61	54	20	35	0,068
10	G1/4	7870 10 13	22	62	55	25	41	0,112
10	G3/8	7870 10 17	22	62	55	25	41	0,115

7861 for system isolating valve with threaded fitting

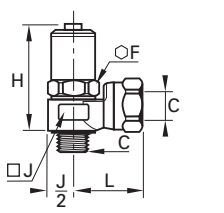
Body : nickel-plated brass
Vertical threaded
sub-assembly : nickel-plated brass with sealing washer



C		F	H maxi	H mini	J	L	kg
G1/4	7861 13 13	22	62	54	24	31	0,148
G3/8	7861 17 17	22	62	55	24	31	0,140
G1/2	7861 21 21	24	70,5	63,5	24	34,5	0,178

7871 for control valve with threaded connection fitting

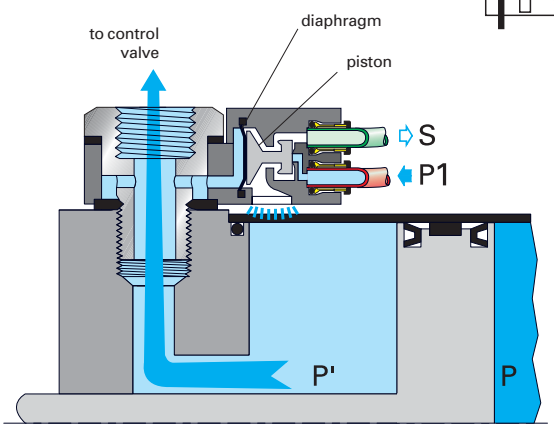
Body : nickel-plated brass
Vertical threaded
sub-assembly : nickel-plated brass with sealing washer

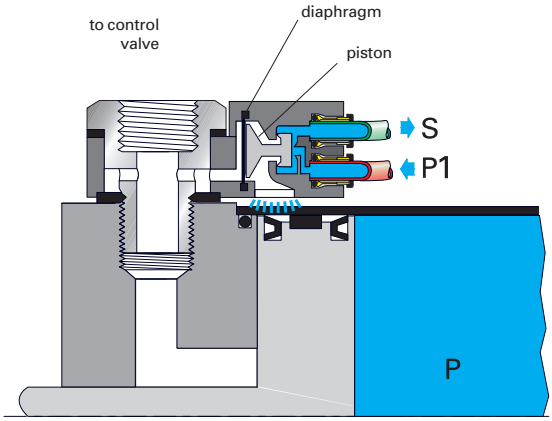


C		F	H maxi	H mini	J	L	kg
G1/4	7871 13 13	22	62	55	24	31	0,149
G3/8	7871 17 17	22	62	55	24	31	0,141

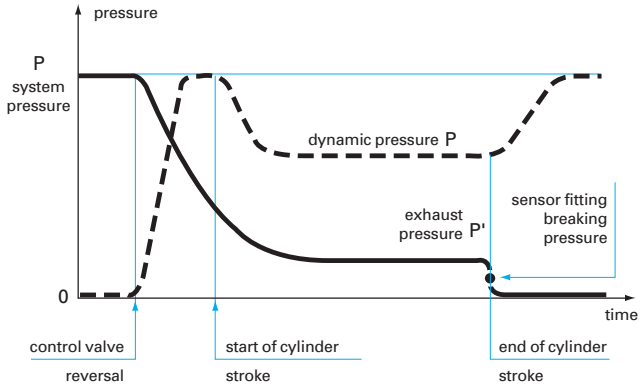
pneumatic sensor fittings

principle of operation

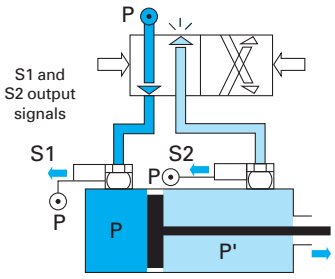




P' : exhaust pressure
P : system pressure
P1 : supply pressure for sensor
S : output signal



assembly



Legris sensor fittings detect pressure drop. They produce an end-of-stroke signal –pneumatic or electric when the exhaust back pressure in the cylinder disappears. They are generally used to detect **the end-of-travel** of a cylinder, thus allowing cylinder reciprocation.

Legris sensor fittings are a very safe and compact method of cylinder reciprocation.

They can be mounted on the **cylinder**, on the **control valve** or on a **manifold** block provided it is between the cylinder and the flow control. For accuracy, the flow control regulator should be positioned as close as possible to the cylinder and therefore can also be fitted to a sensor fitting already mounted on the cylinder.

This range offers 3 models :

● **models with pneumatic output sensor**
2 possibilities :

- supplied with permanent pressure. This is suitable for most applications.

- supplied by a tee made on the cylinder or on the control valve line from the opposite side. As the driving pressure is supplying the sensor fitting no untimely signal can affect operation on start up.

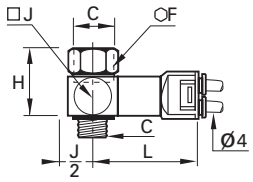
● **models with electric output sensor**
supplied with 3 core 0.5 mm² cable, length 2 metres

technical specifications of pneumatic sensor fittings

working temperature	- 15° to + 60°C	
model 7818	**working pressure**	3 to 8 bar
	breaking pressure	0,6 bar
	response time	3 ms
model 7828	**working pressure**	3 to 8 bar
	breaking pressure	0,5 bar
	contact «OC»	2A / 0-48 V 2A / 250 V 50 Hz

7818 LF 3000® push-in connection for nylon and polyurethane tubing BSP parallel and metric

body : engineering plastics
bolt : brass with sealing washer

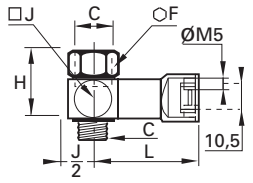


*M5 : bolt zinc passivated steel

C		DN mini	F	H	J	L	kg
M5x0,8	*7818 04 19	2	8	16	11	43,5	0,025
G1/8	7818 04 10	5	14	23	16	44,5	0,082
G1/4	7818 04 13	7	17	28	19,5	46,5	0,113
G3/8	7818 04 17	10	22	29	23,5	49	0,128
G1/2	7818 04 21	14	27	30	31,5	52,5	0,159

7818 threaded fittings BSP parallel

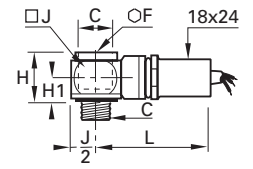
body : engineering plastics
bolt : brass with sealing washer



C		DN mini	F	H	J	L	kg
G1/8	7818 19 10	5	14	23	16	40,5	0,087
G1/4	7818 19 13	7	17	28	19,5	42,5	0,117

7828 pneumatic/electric BSP parallel and metric

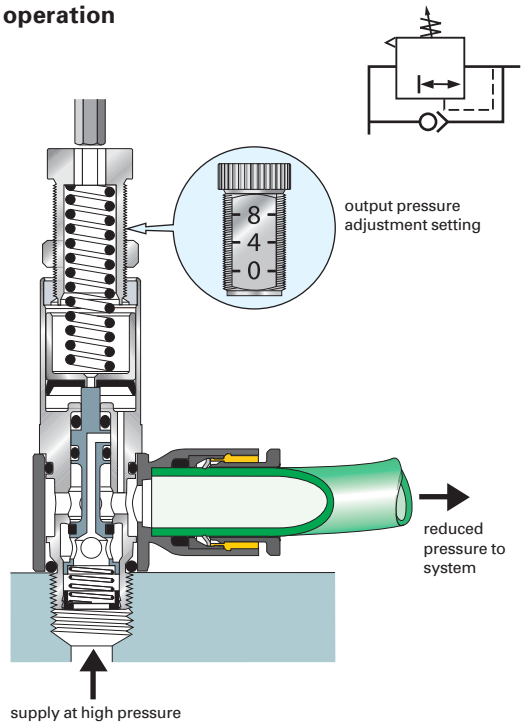
body : engineering plastics
bolt : brass with sealing washer



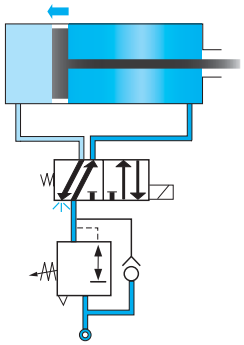
C		F	H	H1	J	L	kg
M5x0,8	7828 00 19	8	20	10	11	49	0,115
G1/8	7828 00 10	6	20	10	16	52	0,120
G1/4	7828 00 13	8	20	10	21	54	0,125
G3/8	7828 00 17	10	22	12	28	57	0,150
G1/2	7828 00 21	12	26	14	33	58	0,185

pressure regulator fittings (relieving type)

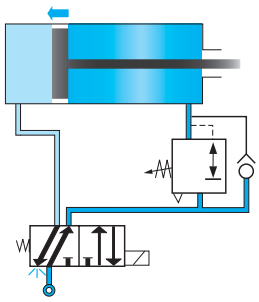
principle of operation



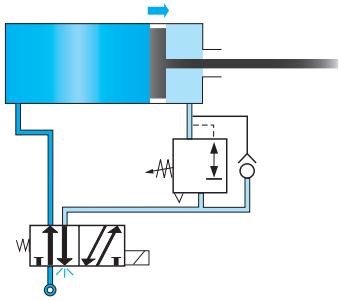
mounting upstream of control :
valve adjustment of piston feed pressure in both directions



mounting downstream of control valve :
adjustment of piston feed pressure in single direction



in return direction, pressure supplied through control of valve



Legris pressure regulator fittings are used to stabilize, at a given value, the pressure applied to pneumatic equipment, whatever the fluctuations of pressure upstream.

The pressure outlet is fully controlled by an adjustment screw. To assist pressure selection, the screw is calibrated showing pressure setting levels.

Adjusting pressure to a sufficient value provides a **saving of compressed air and therefore energy**. Consequently, when mounted in series on a manifold, these fittings control the supply required for each piece of equipment, from a single supply source.

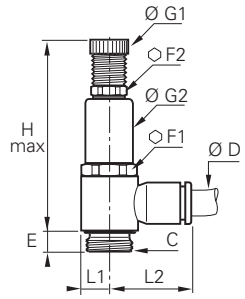
Compact, flow pressure regulators may be mounted :
- downstream of the control valve, for reduced pressure in one direction,
- upstream of the control valve, for reduced pressure in both directions.

technical specification of pressure regulator fittings

working temperature	- 10° to + 70°C			
working pressure	**P1 – input pressure**	1 to 16 bar		
	P2 – regulated pressure	1 to 8 bar		
constituent materials	**body** : polymer H.R., nickel-plated brass **seals** : nitrile			
maximum tightening torque	thread	G1/8“	G1/4“	G3/8“
	m. da N	0,4	0,5	0,6

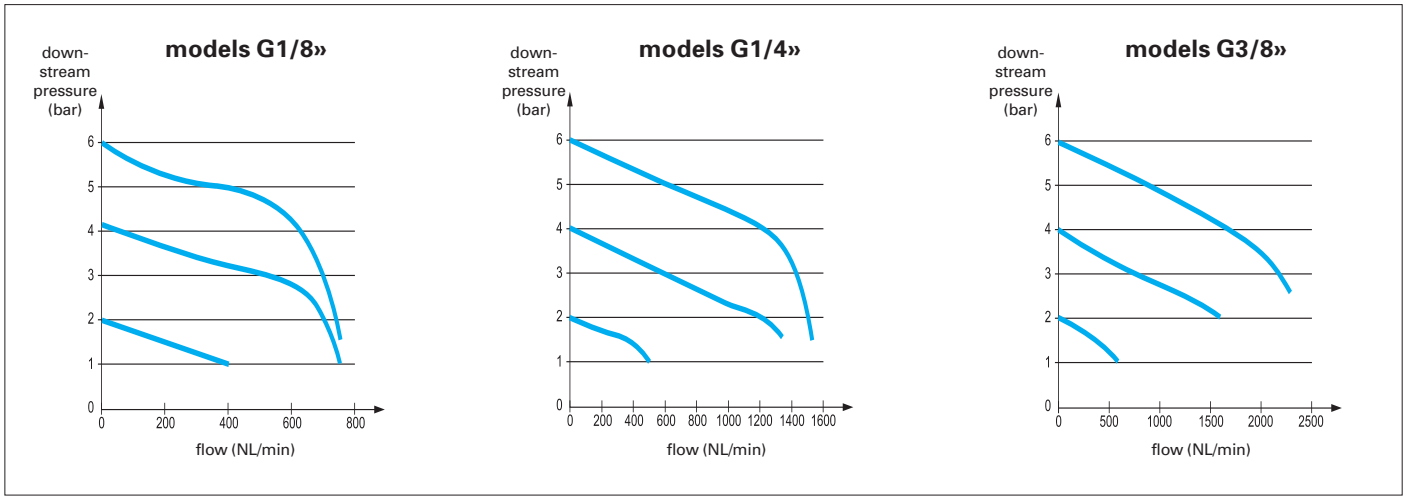
7300 male BSP parallel, with push-in fitting connection

plastic body
nickel-plated brass screw
with sealing washer



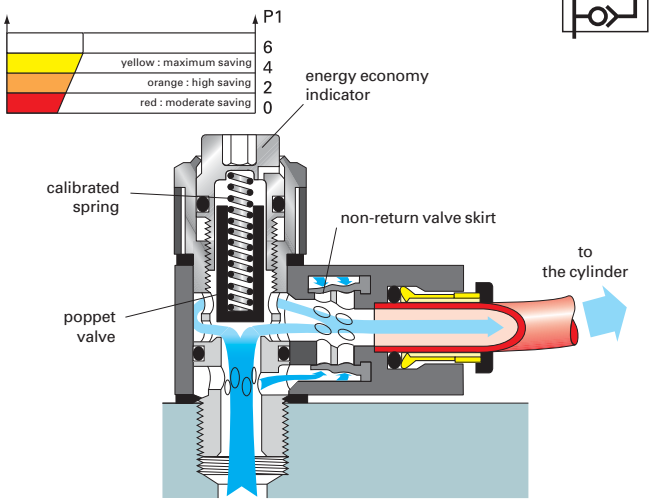
ØD	C		E	F1	F2	G1	G2	H maxi	L1	L2	kg
4	G1/8	7300 04 10	4,5	17	13	14	18,5	60,5	7	18,5	0,038
6	G1/8	7300 06 10	4,5	17	13	14	18,5	60,5	7	20	0,045
6	G1/4	7300 06 13	7,5	17	13	14	18,5	68,5	9,5	22	0,049
8	G1/8	7300 08 10	4,5	17	13	14	18,5	60,5	7	25	0,057
8	G1/4	7300 08 13	7,5	17	13	14	18,5	68,5	9,5	27	0,060
8	G3/8	7300 08 17	8,5	22	17	18,5	23,5	77,5	11,5	28,5	0,064
10	G1/4	7300 10 13	7,5	17	13	14	18,5	68,5	9,5	29	0,070
10	G3/8	7300 10 17	8,5	22	17	18,5	23,5	77,5	11,5	30,5	0,073

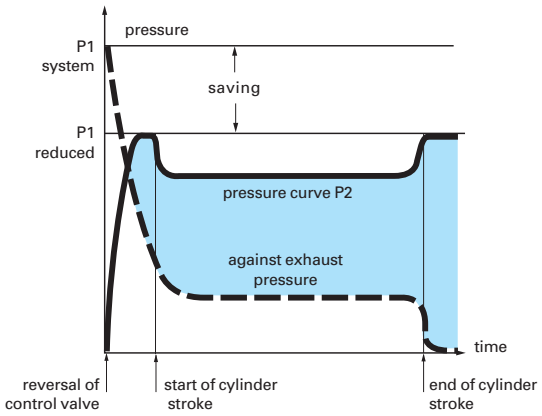
Flow characteristics – Upstream pressure = 7 bar



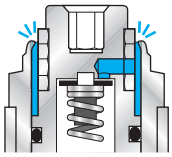
pressure reducer fittings

pressure reducer fittings

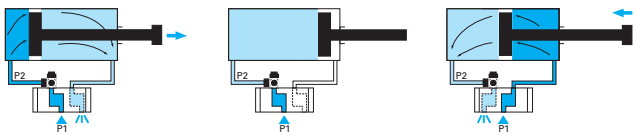




In cases where an emergency stop of a machine is required - due, for example to the faulty positioning of a product - it is necessary to vent the circuit quickly. Therefore Legris have designed a vent into the pressure reducer. This allows purging of the circuit and thus easy movement of the cylinder rod to over-come the problem.

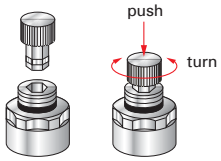


1 - outward stroke **2** - retention at end of stroke **3** - return stroke

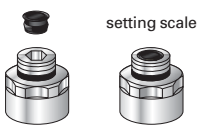


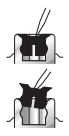
principle of operation

- during periods of adjustment, all pneumatic energy-saving fittings on a machine can be equipped with manual rachet controls to permit rapid setting.



- if necessary, a sealing plug can be used to prevent access to the setting mechanism.





Legris pressure reducer fittings provide the cylinder with a circuit pressure reduced to a value determined by manual adjustment.

Because air is compressible, the higher the pressure in a cylinder, the more the cylinder consumes. Limiting the cylinder pressure therefore leads to a **saving** of compressed air and therefore **energy**.

This type of **energy-saving fitting**, which makes it possible to set the pressure to the final force required, is available in a choice of two forms : **banjo** version for fitting directly to a control valve or terminal block, or **in-line** version for mounting in the supply line between the control valve and cylinder.

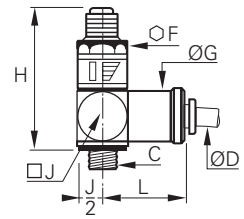
technical specifications of pressure regulator fittings

working pressure	1 to 8 bar				
working temperature	-15° à +60°C				
maximum tightening torques of pressure regulators fittings 7318 and 7471	thread	G1/8“	G1/4“	G3/8“	G1/2“
	m. da N	0,8	1,2	3	3,5

pressure reducer fittings

7318 with LF 3000® instant connection, BSP parallel

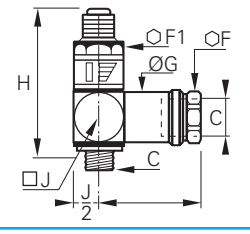
metal body fitted with Legris sealing ring 0125



ØD	C		DN mini	F	G	H mini	H maxi	J	L	kg
6	G1/8	7318 06 10	4	19	20	49	57	21	43	0,135
6	G1/4	7318 06 13	4	19	20	49	57	21	43	0,136
8	G1/4	7318 08 13	6	19	20	49	57	21	40	0,133
10	G1/4	7318 10 13	6	27	20	55	64	28	50	0,241
10	G3/8	7318 10 17	8	27	26	55	94	28	50	0,250

7471 with threaded connection, BSP parallel

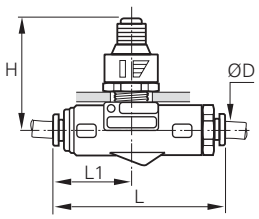
metal body fitted with Legris sealing ring 0124



C		DN mini	F	F1	G	H mini	H maxi	J	L	kg
G1/8	7471 10 10	4	19	19	20	49	57	21	45	0,157
G1/4	7471 13 13	6	19	19	20	49	57	21	45	0,150
G3/8	7471 17 17	8	24	27	26	55	64	28	56	0,283
G1/2	7471 21 21	10	30	30	31	75	86	33	63	0,525

7316 in-line with LF 3000® instant connection

body : nickel-plated brass

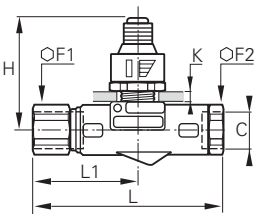


ØD		DN mini	F	H mini	H maxi	L	L1	kg
6	7316 06 00	4	22	49	57	74	32	0,208
8	7316 08 00	6	22	49	57	71	32	0,196
10	7316 10 00	8	27	61	70	89	41	0,405

this model is supplied with a bulkhead nut.

7416 in-line with threaded connection, BSP parallel

body : nickel-plated brass

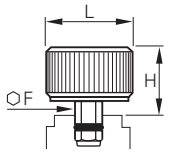


C		DN mini	F1	F2	H mini	H maxi	K maxi	L	L1	T mini	kg
G1/8	7416 10 10	4	17	19	49	57	4	74	35	18,5	0,157
G1/4	7416 13 13	6	17	19	49	57	4	83	44	18,5	0,150
G3/8	7416 17 17	8	22	27	61	70	5	90	44	22,5	0,283
G1/2	7416 21 21	10	27	30	75	86	7	119	61	22,5	0,525

this model is supplied with a bulkhead nut.

7000 00 00 manual ratchet control

body : nickel-plated brass



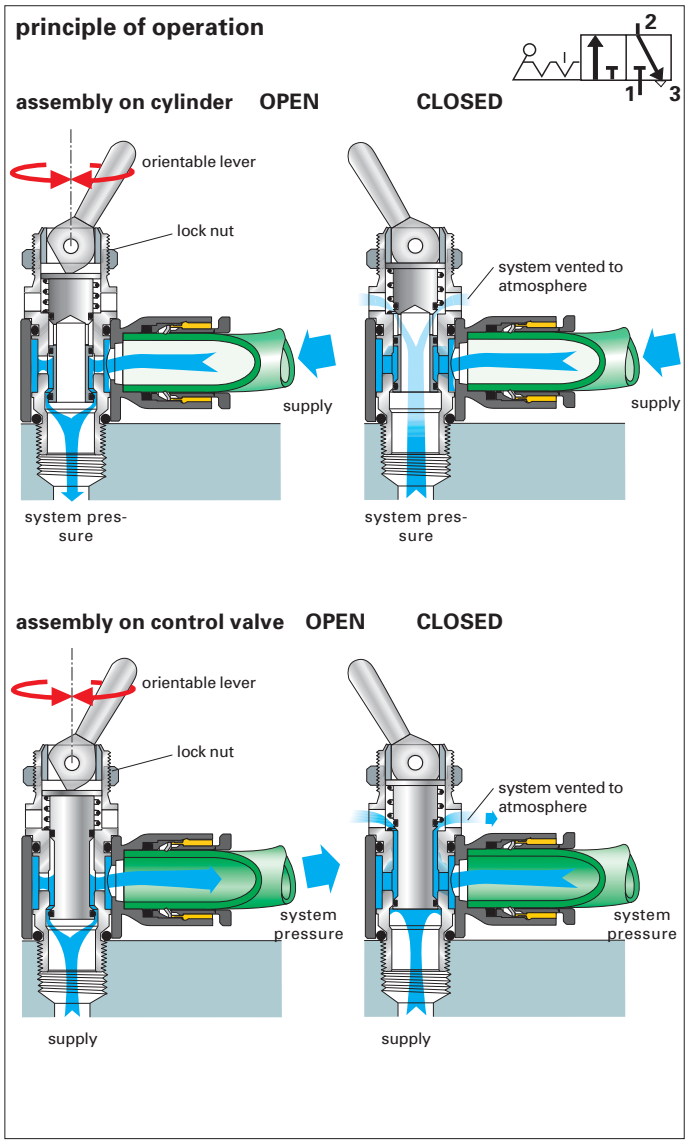
F		H	L	kg
6	7000 00 00	15	22	0,039

7000 00 01 sealing plug for manual control version

polymer

ØD		kg
6 - 16	7000 00 01	0,001

manually operated valves
manual switch operated vent fittings

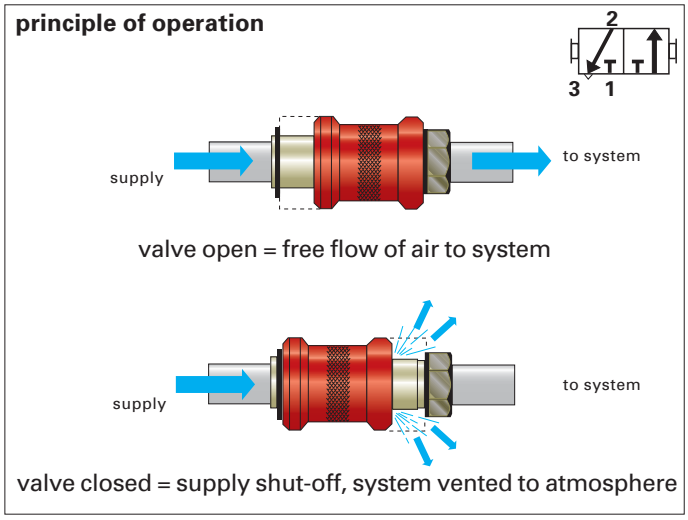


3/2 and 2/2 manual switch operated vent fittings

Manual switch operated vent fittings can be used whenever the system has to be frequently vented. They guarantee immediate isolation of the air line by venting to atmosphere by a simple manual operation of the lever.
Supply is provided :
- on the instant connection side ; mounted on single-acting cylinder
- on the threaded side ; when mounted on a manifold (e.g. Legris aluminium manifolds)

suitable fluid	compressed air
maximum working pressure	10 bar
working temperature	-10° to +80°C

pneumatic vent valves

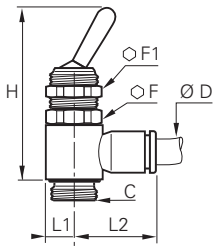


Legris pneumatic sleeve valves may be used to effect immediate isolation of the air line by venting the system to atmosphere. By moving the sleeve in one direction, the air is free to pass through the sleeve valve to the system. By moving it in the opposite direction, the supply is shut off and downstream air vents to the atmosphere. This unit is compact, neat and aesthetically pleasing design.

suitable fluid	compressed air
direction of medium	one way
maximum working pressure	16 bar
working temperature	-10° to + 80°C

7800-7801 3/2 vented version, with LF 3000® push-in connection, panel mountable, BSP parallel

body – polymer H.R.
nickel-plated brass bolt
with nitrile sealing ring

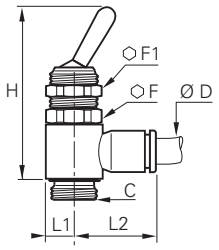


ØD	C	supply	F	F1	H	L1	L2	kg
4	M5x0,8	7800 04 19	8	-	32	4	16	0,020
4	G1/8	7800 04 10	14	14	43	7	18,5	0,027
6	M5x0,8	7800 06 19	8	-	32	4	19	0,022
6	G1/8	7800 06 10	14	14	43	7	20,5	0,029
6	G1/4	7800 06 13	17	14	50,5	8,5	22,5	0,044
8	G1/8	7800 08 10	14	14	43	7	25	0,030
8	G1/4	7800 08 13	17	14	50,5	8,5	27	0,045
10	G1/4	7800 10 13	17	14	50,5	8,5	29	0,048

ØD	C	control	F	F1	H	L1	L2	kg
4	G1/8	7801 04 10	14	14	43	7	18,5	0,027
6	G1/8	7801 06 10	14	14	43	7	20,5	0,029
6	G1/4	7801 06 13	17	14	50,5	8,5	22,5	0,044
8	G1/8	7801 08 10	14	14	43	7	25	0,030
8	G1/4	7801 08 13	17	14	50,5	8,5	27	0,045
10	G1/4	7801 10 13	17	14	50,5	8,5	29	0,048

7802 2/2 version, with LF 3000® push-in connection, panel mountable, BSP parallel

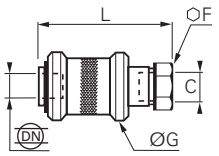
body – polymer H.R.
nickel-plated brass bolt
with nitrile sealing ring



ØD	C		F	F1	H	L1	L2	kg
4	G1/8	7802 04 10	14	14	43	7	18,5	0,027
6	G1/8	7802 06 10	14	14	43	7	20,5	0,029
6	G1/4	7802 06 13	17	14	50,5	8,5	22,5	0,044
8	G1/8	7802 08 10	14	14	43	7	25	0,030
8	G1/4	7802 08 13	17	14	50,5	8,5	27	0,045
10	G1/4	7802 10 13	17	14	50,5	8,5	29	0,048

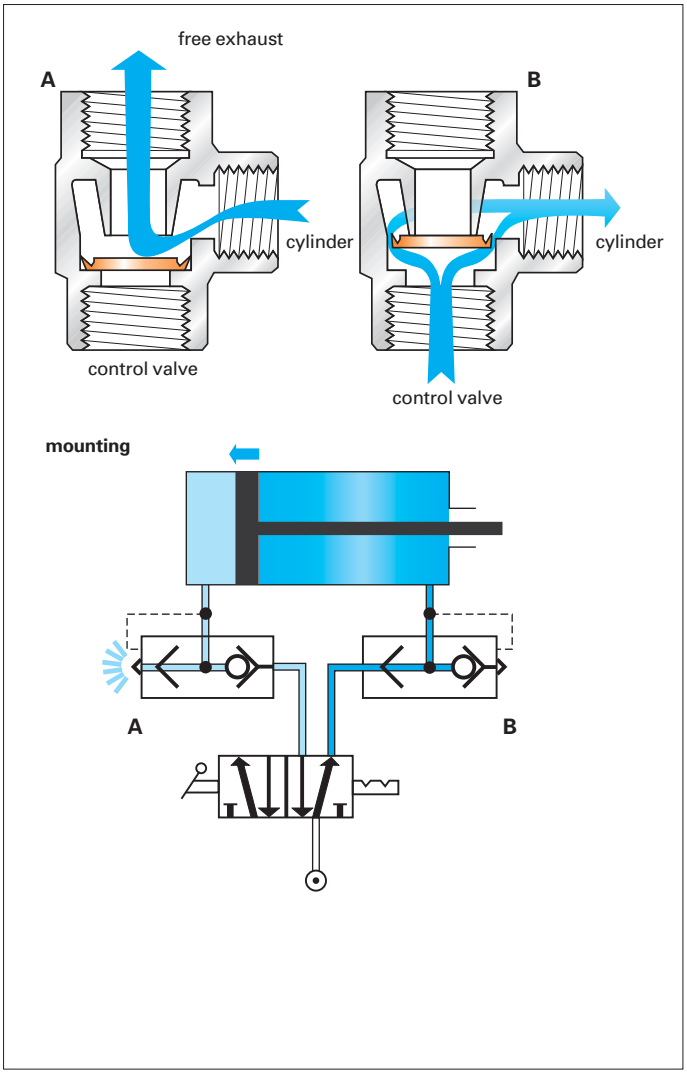
0669 pneumatic sleeve valve, double female, BSP parallel and M5

body: nickel-plated brass
sleeve: anodised aluminium



C	DN		F	G	L	kg
M5x0,8	2	0669 02 19	10	14	30,5	0,045
G1/8	4	0669 04 10	14	25	48	0,051
G1/4	7	0669 07 13	19	30	58	0,084
G3/8	10	0669 10 17	22	35	68	0,153
G1/2	14	0669 14 21	27	40	75	0,227
G3/4	19	0669 19 27	32	50	83	0,242

metal quick exhaust valves



Reduced cycle times
- Increase in cylinder rod displacement speed, allowing direct exhaust of compressed air

Compact products, easy to install
- 2 models of exhaust valves (elbow and in-line) to suit individual applications
- Can be used in small spaces
- Optimized assembly time

Technical performance suited to each need
- High exhaust capability
- Integrated silencer
- Robust and lightweight materials

A comprehensive range to meet each requirement :
3 versions available :
- Threaded elbow quick exhaust valve
- In-line threaded quick exhaust valve with integrated silencer
- In-line quick exhaust valve with push-in connection and integrated silencer

Technical specifications for 7970

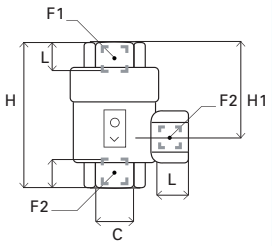
Suitable fluid	compressed air
Working pressure	0.7 to 10 bar
Working temperature	from -20°C to +70°C
Constituent materials	Body : nickel-plated brass Seals : polyurethane elastomer from 1/8 to 1'', NBR for M5

Technical specifications for 7971

Suitable fluid	compressed air
Working pressure	2 to 10 bar
Working temperature	from -10°C to +70°C
Constituent materials	Body : anodized aluminium Seals : polyurethane elastomer

7970 elbow quick exhaust valve, female BSP parallel thread

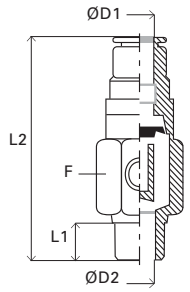
Nickel-plated brass body



C		F1	F2	H	H1	L	kg
M5	7970 19 19	10	10	24.8	15,6	4	
G1/8	7970 10 10	14	14	42	28	8	
G1/4	7970 13 13	19	19	53	34,5	11	
G3/8	7970 17 17	21	21	58	36	12	
G1/2	7970 21 21	26	26	71	44	14	
G3/4	7970 27 27	32	32	86	52	18	
G1“	7970 34 34	38	38	94	56	19	

7971 in-line quick exhaust valve with threaded connection, male BSP taper/ female BSP parallel

Anodized aluminium body



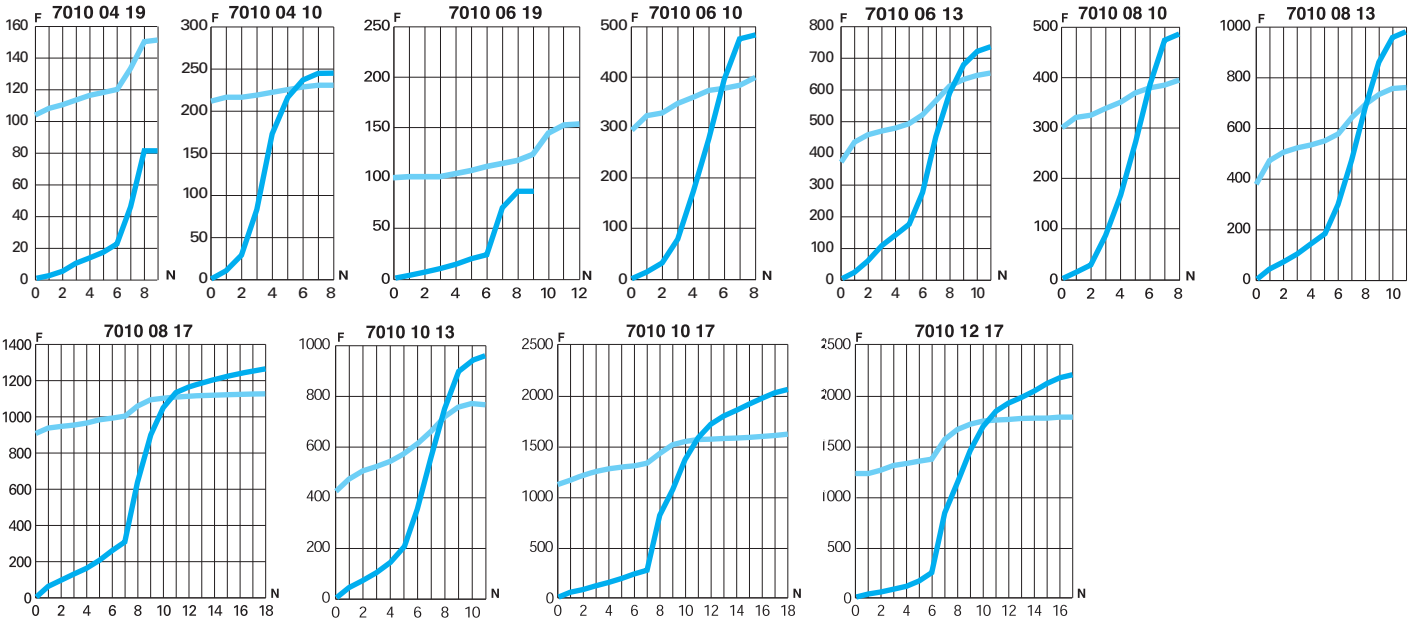
ØD1	ØD2		F	L1	L2	kg
G1/8	R1/8	7971 10 10	18	7,5	43	
G1/4	R1/4	7971 13 13	18	11	49	
G3/8	R3/8	7971 17 17	27	11,5	56	
G1/2	R1/2	7971 21 21	34	14	70	

flow control regulators

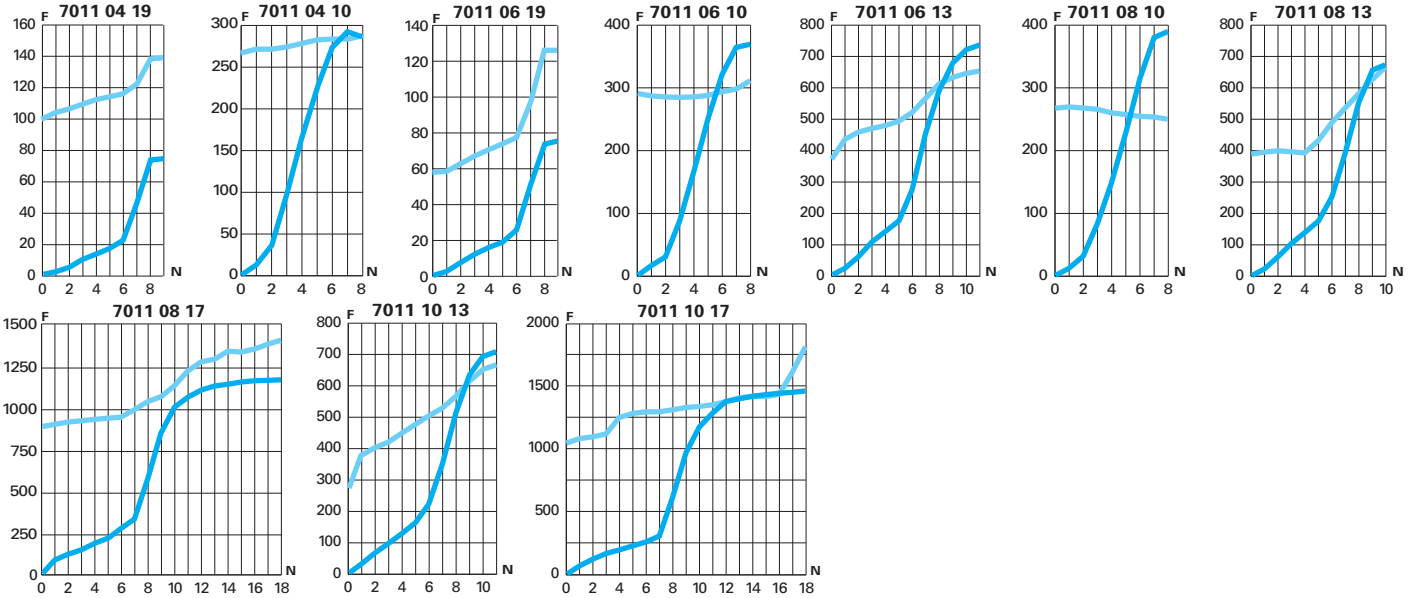
flow characteristics (at 6 bar)

7010 - 7011 - 7012

7010



7011



7012

Flow characteristics of model 7012

- exhaust version: see model 7010, direction of adjustment
- supply version: see model 7011, direction of adjustment

6 bar
return
adjustment

F : flow in Nl/min

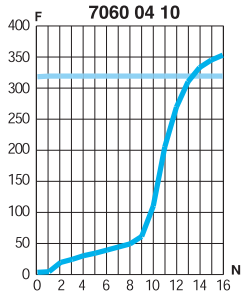
N : number of turns

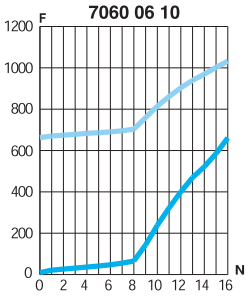
flow control regulators

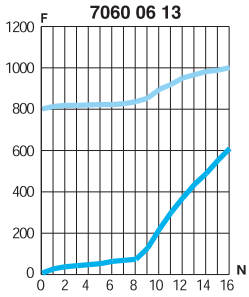
flow characteristics (at 6 bar)

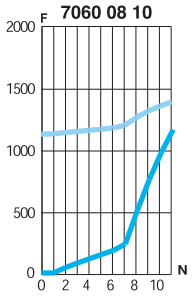
7060 - 7061 - 7062

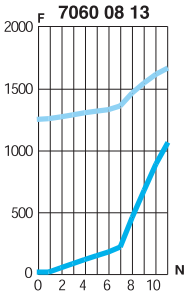
7060

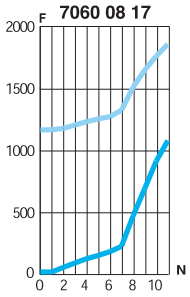


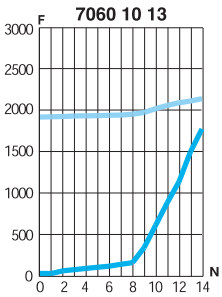


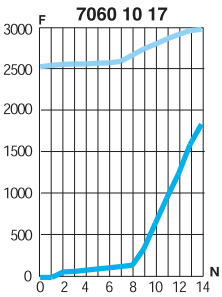


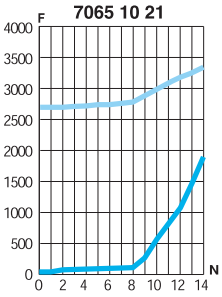


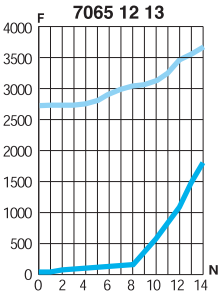


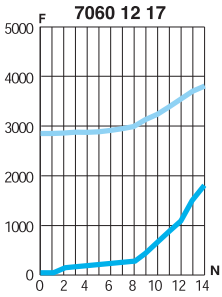


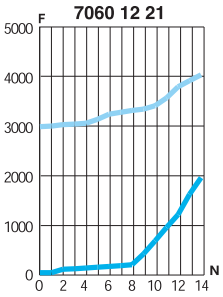




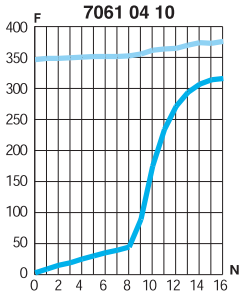


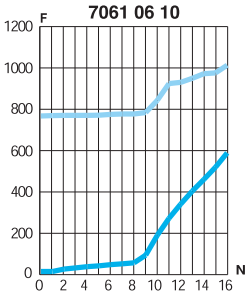


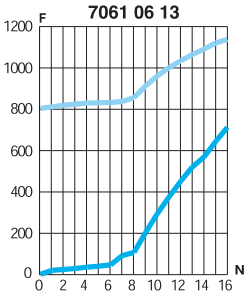


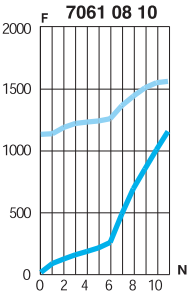


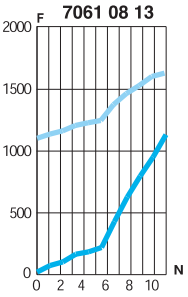
7061

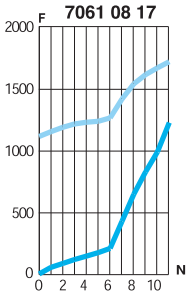


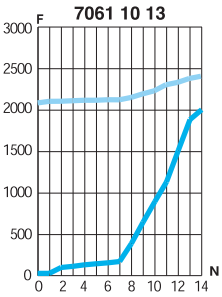


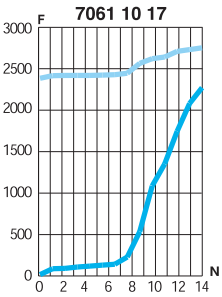


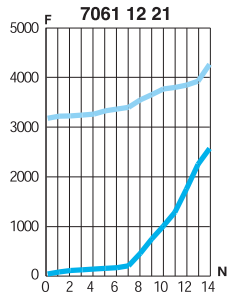












7062

Flow characteristics of model 7062

- exhaust version: see model 7060, direction of adjustment
- supply version: see model 7061, direction of adjustment

6 bar

return

adjustment

F : flow in Nl/min

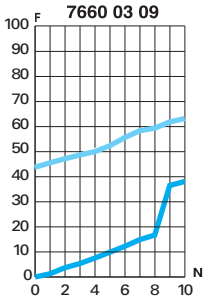
N : number of turns

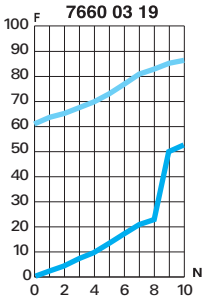
flow control regulators

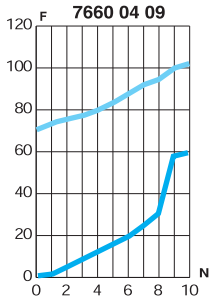
flow characteristics (at 6 bar)

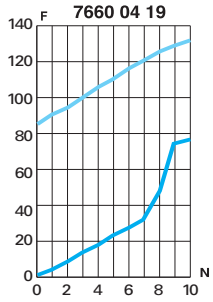
7660 - 7669 - 7662

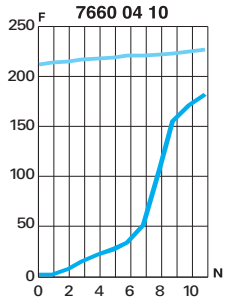
7660

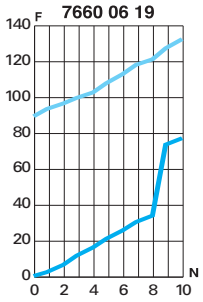


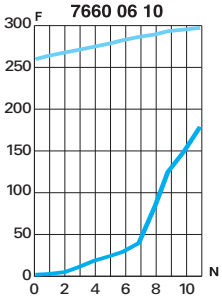


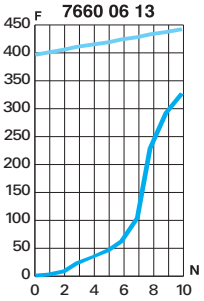


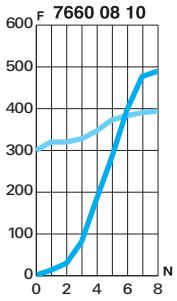


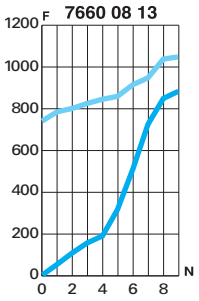


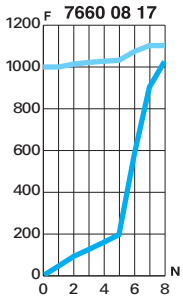




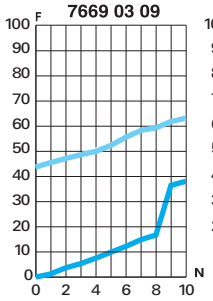


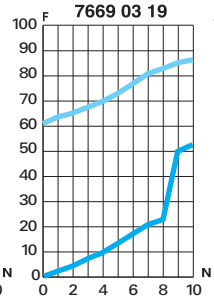


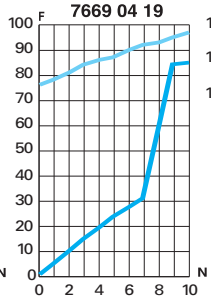


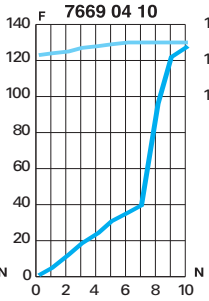


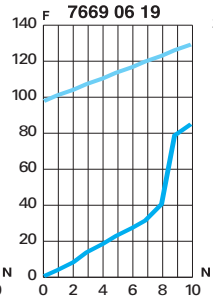
7669

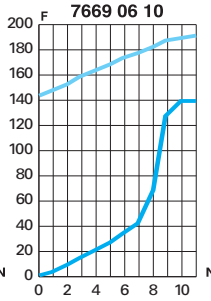


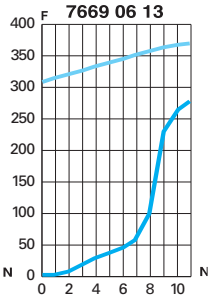


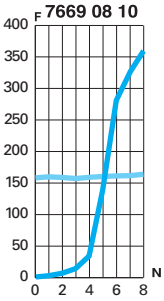


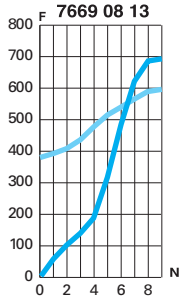


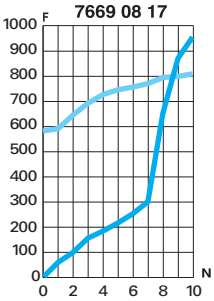












7662

Flow characteristics of model 7662

- exhaust version: see model 7660, direction of adjustment
- supply version: see model 7669, direction of adjustment

6 bar

return

adjustment

F : flow in Nl/min

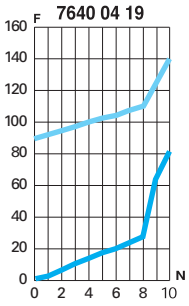
N : number of turns

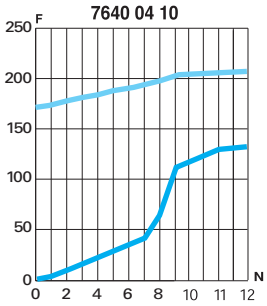
flow control regulators

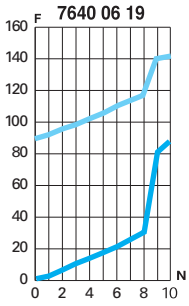
flow characteristics (at 6 bar)

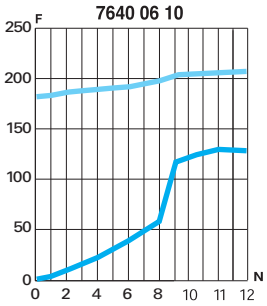
7640 - 7649

7640

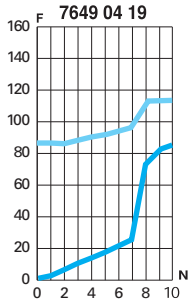


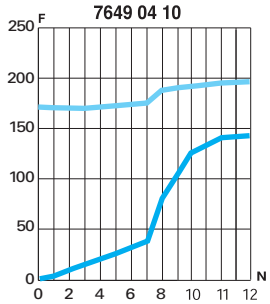


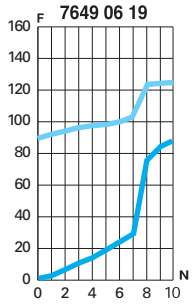


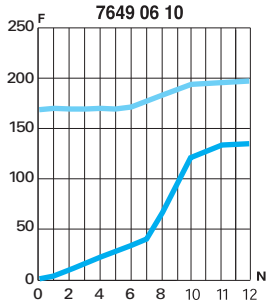


7649

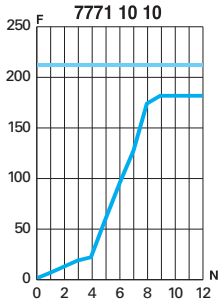


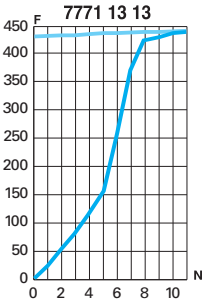


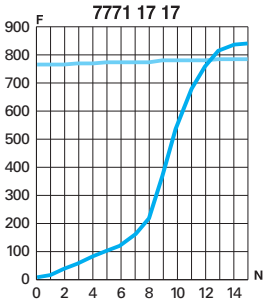


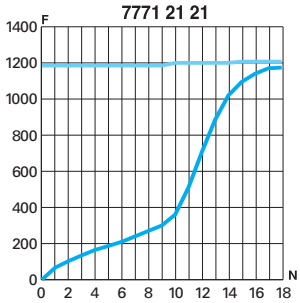


7771

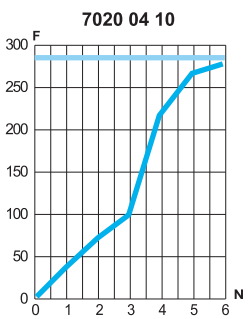


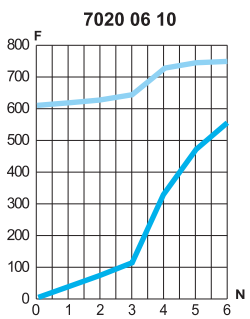


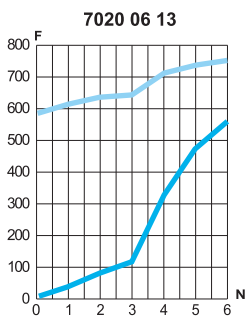


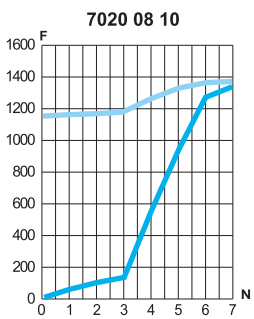


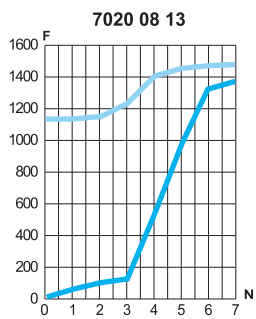
7020







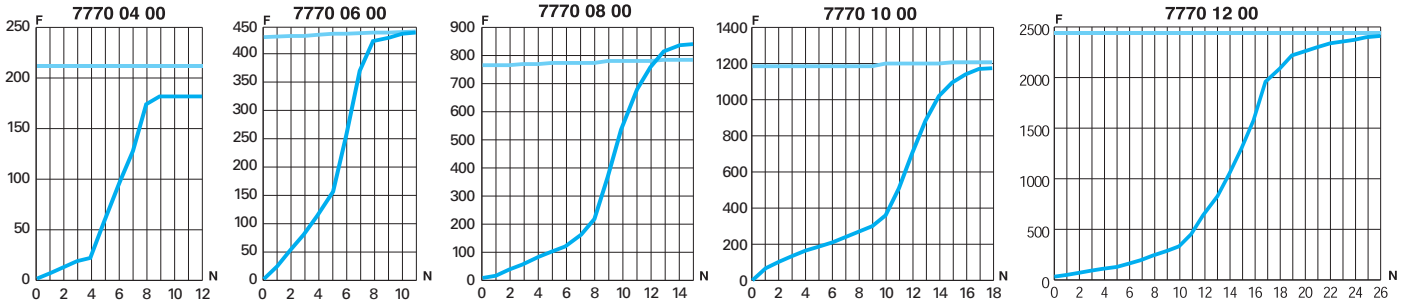




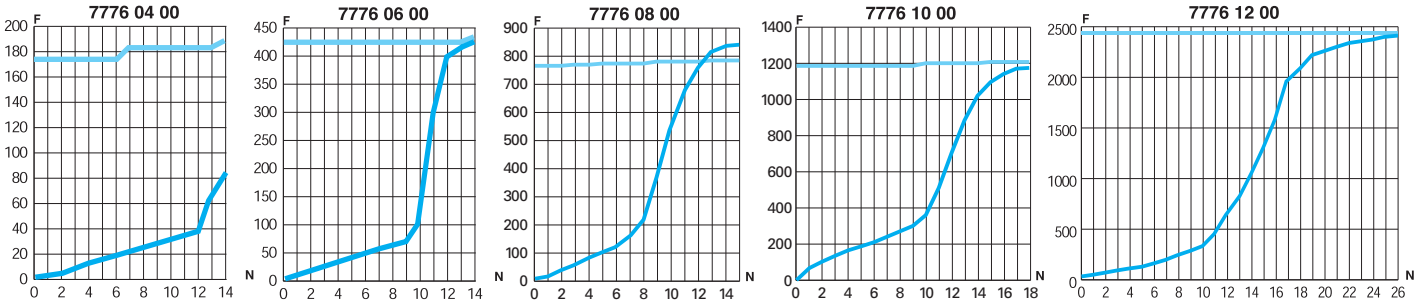
flow control regulators

flow characteristics (at 6 bar)

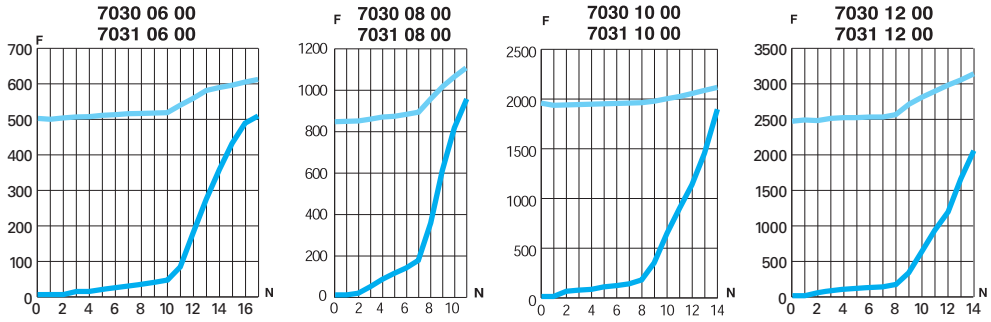
7770



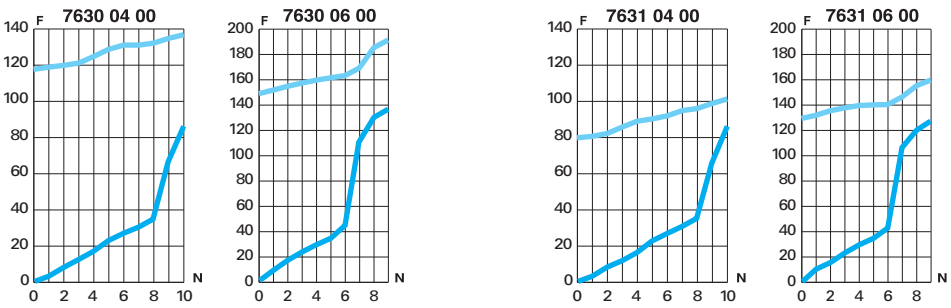
7776



7030 - 7031



7630 - 7631

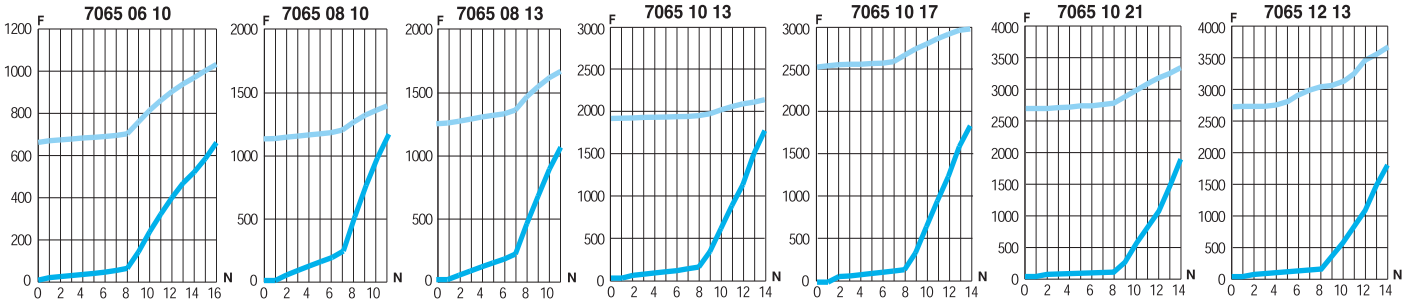


flow control regulators

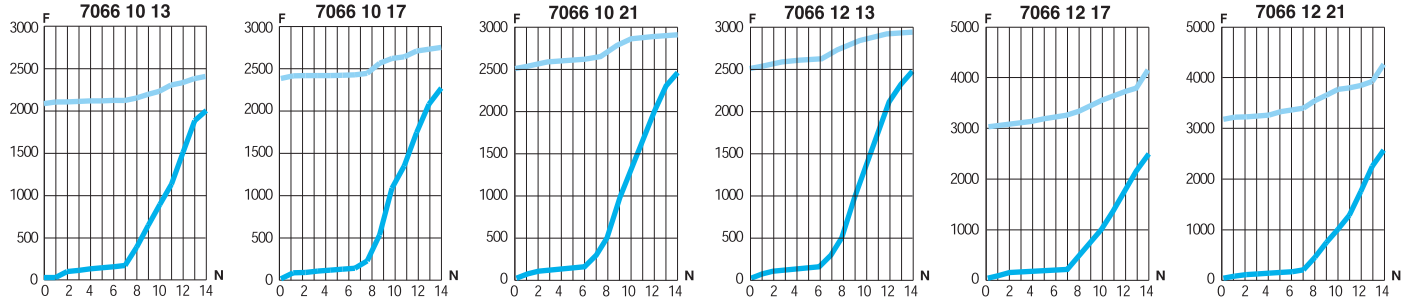
flow characteristics (at 6 bar)

7065 - 7066 - 7067

7065



7066



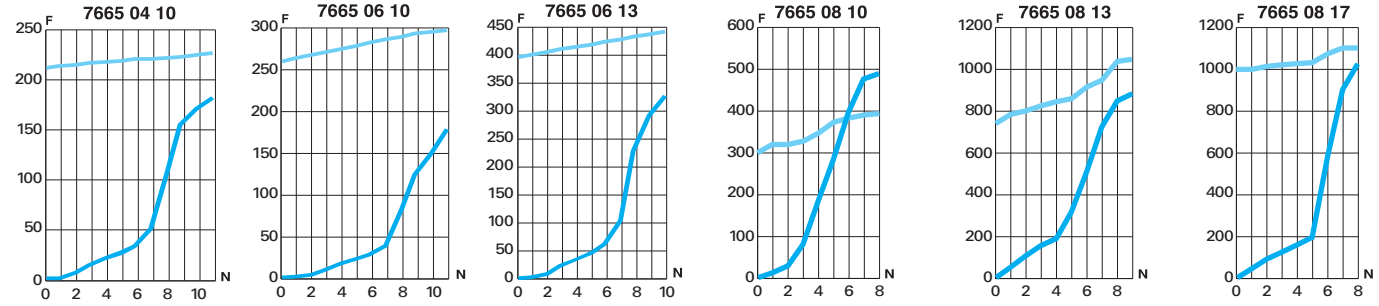
7067

Flow characteristics of model 7067

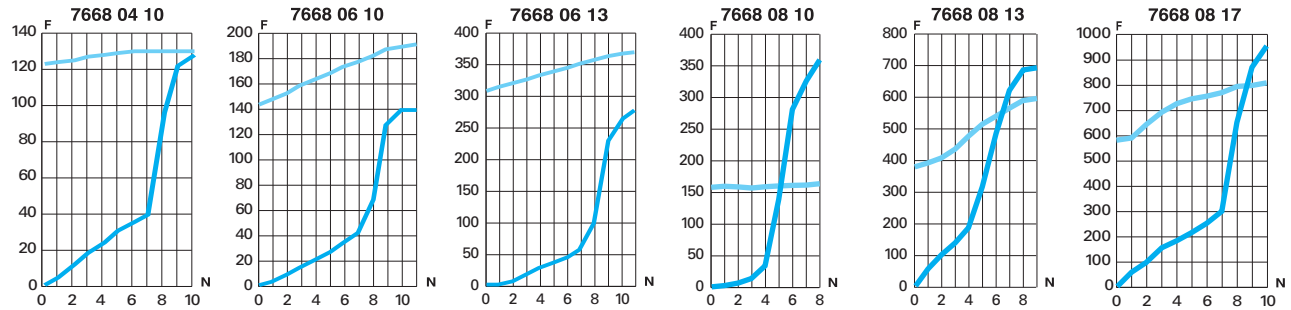
- exhaust version: see model 7065, direction of adjustment
- supply version: see model 7066, direction of adjustment

7665 - 7668

7665



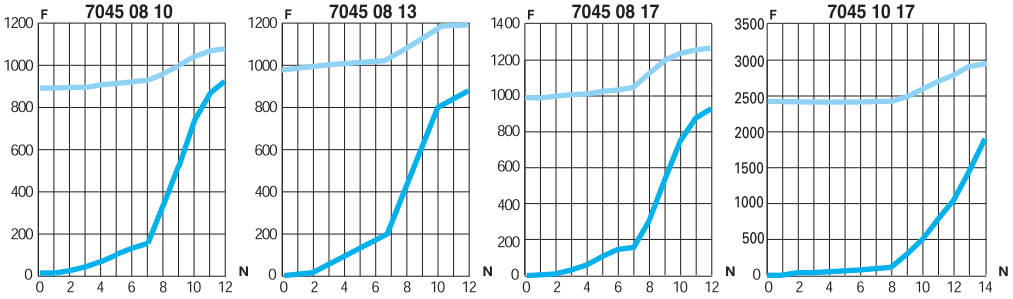
7668



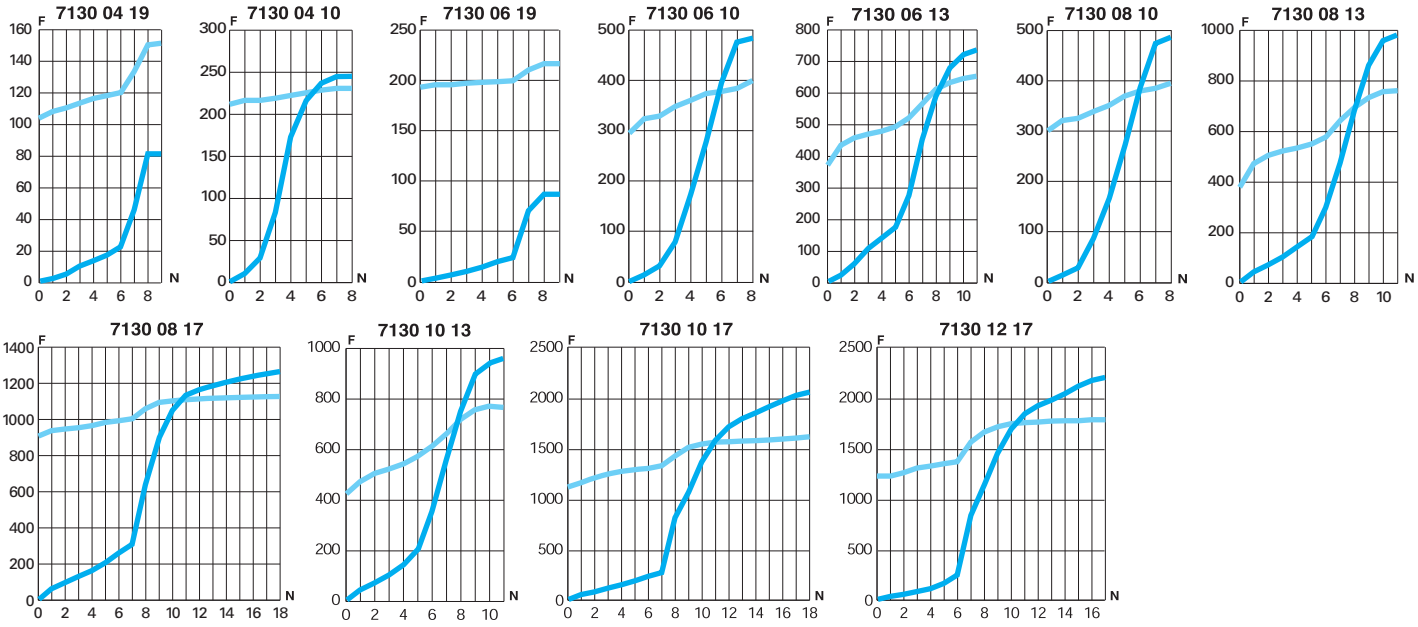
flow control regulators

flow characteristics (at 6 bar)

7045



7130



6 bar
return
adjustment

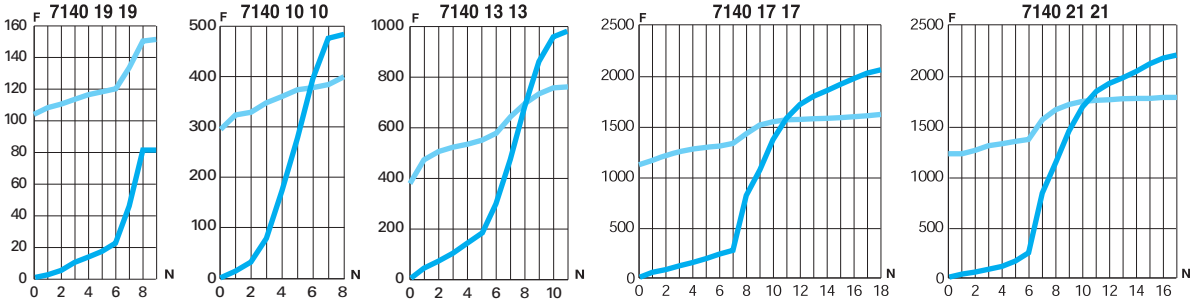
F : flow in Nl/min

N : number of turns

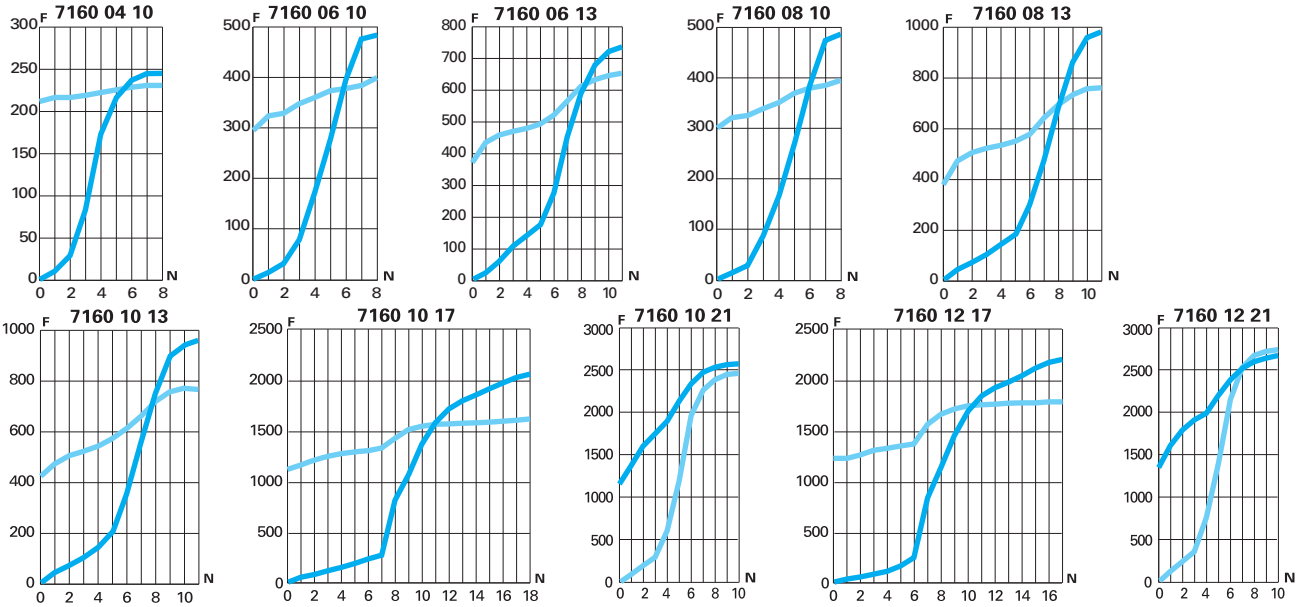
flow control regulators

flow characteristics (at 6 bar)

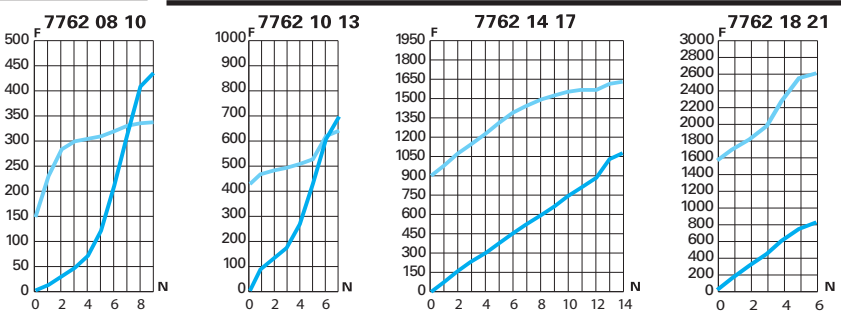
7140



7160



7762



6 bar
return
adjustment

F : flow in Nl/min

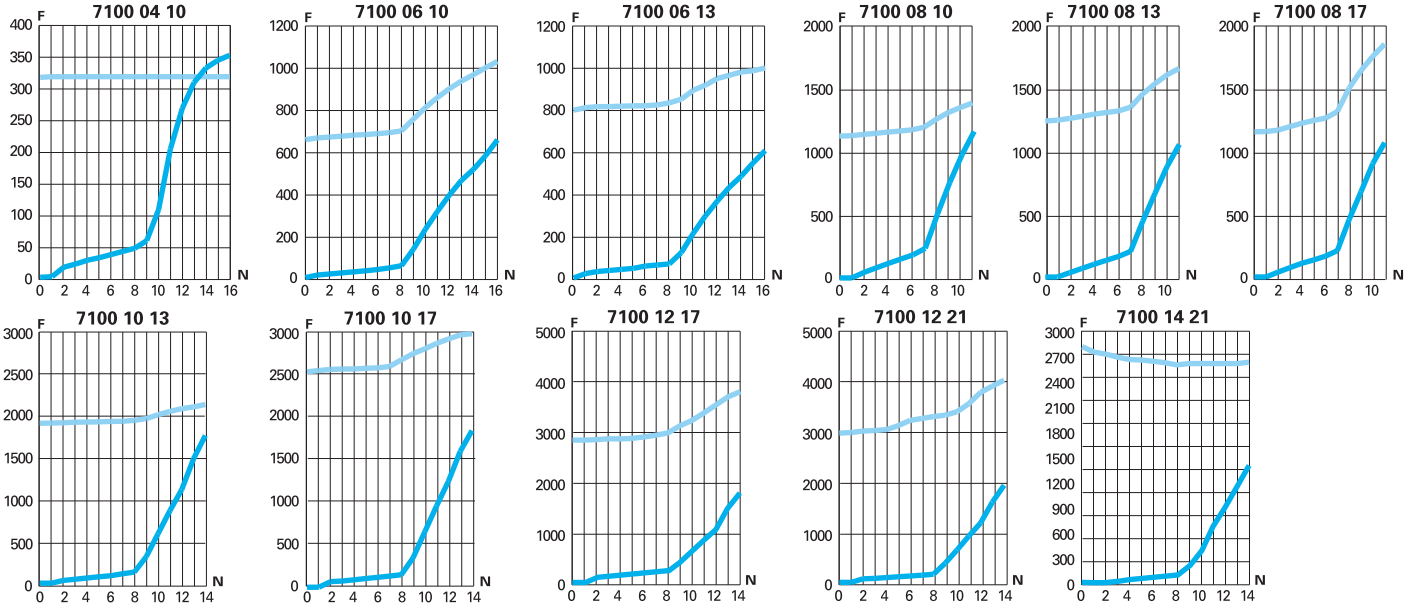
N : number of turns

flow control regulators

flow characteristics (at 6 bar)

7100 - 7101

7100



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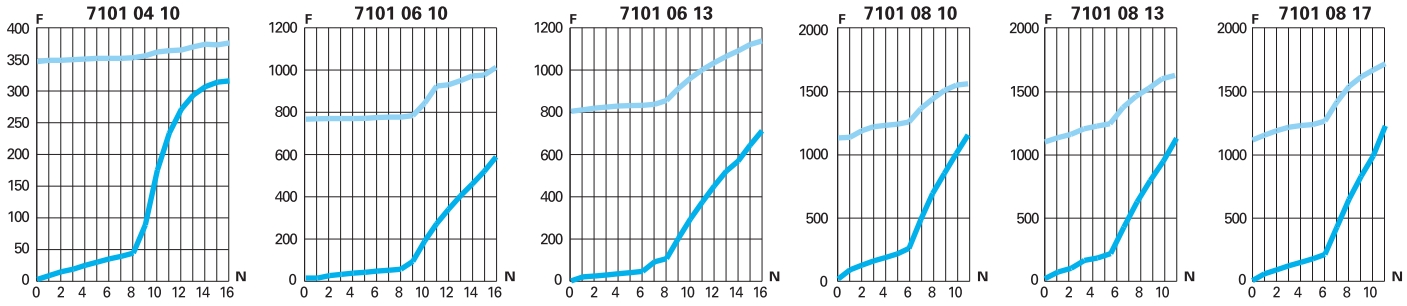
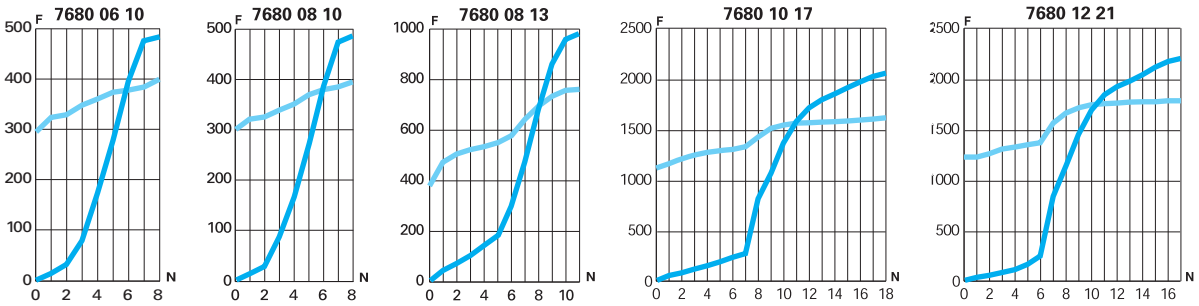


7680



6 bar
return
adjustment

F : flow in Nl/min

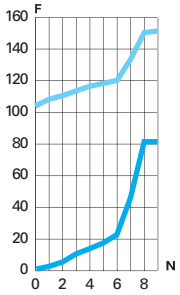
N : number of turns

flow control regulators

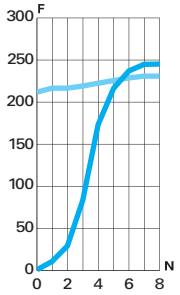
flow characteristics (at 6 bar)

7180

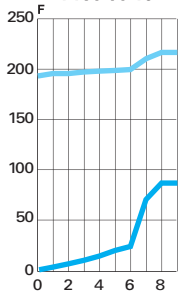
7180 04 19



7180 04 10



7180 06 19



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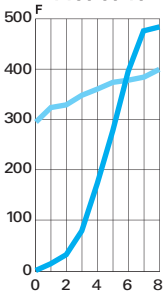

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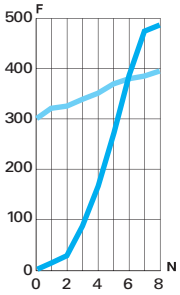
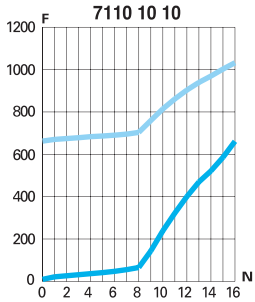


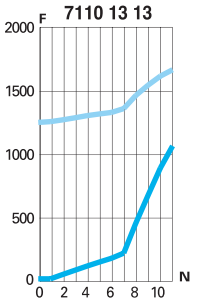
7110 - 7111

7110

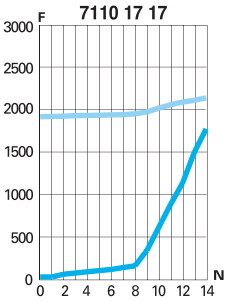
7110 10 10



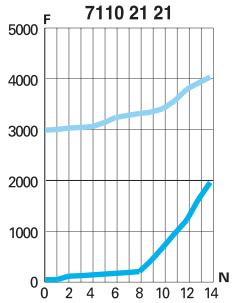
7110 13 13



7110 17 17



7110 21 21



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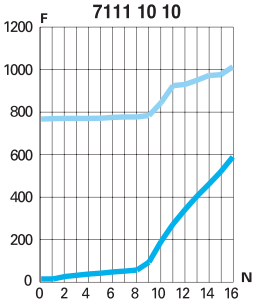
7111 10 10



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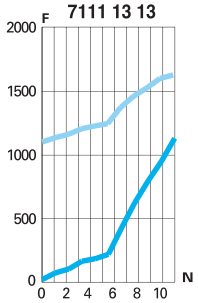
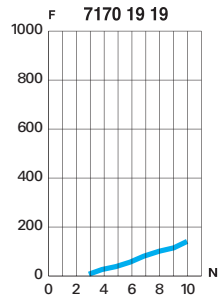
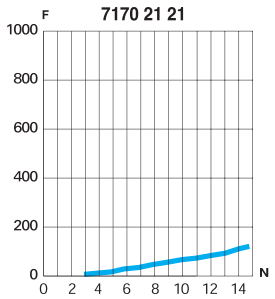


7170

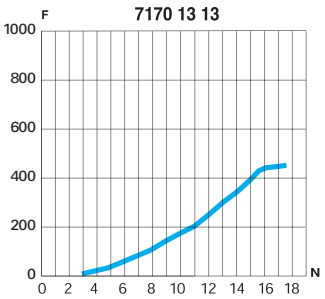
7170 19 19



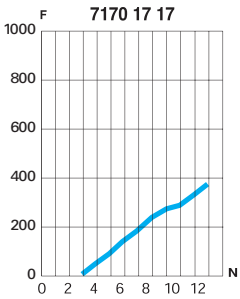
7170 21 21



7170 13 13



7170 17 17



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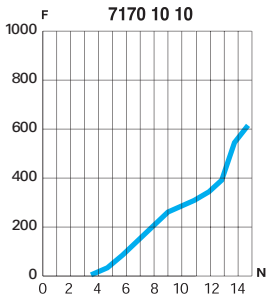

6 bar
return
adjustment

F : flow in Nl/min

N : number of turns

push-in fittings for industrial and food applications

legris connectic

push-in fittings for industrial and food applications

An extensive knowledge of market requirements and proven expertise in connection techniques enable Legris to offer improved ranges of push-in fittings that are suited to many industries. The Legris range is suitable for numerous applications and requirements, compatible with many fluids and resistant to severe conditions of use.

LF 6000 push-in fittings

- designed for excellent resistance to **severe conditions** of use, especially **spark projections and weld spatter**
- **integral cover prevents side load ingress of spatter**
- for compressed air, water, cooling fluids
- **time saving** during assembly due to **instant manual connection and disconnection**
- from **4 mm** o.d. to **12 mm o.d.**
- BSP taper, BSP parallel and metric **threads**
- for use with antispark tubing

LF 3600 push-in fittings

- designed for industrial, chemical, pharmaceutical and food applications
- numerous suitable fluids (food fluids, cleaning detergents / hot and cold water, steam, oil…)
- excellent resistance to abrasion and corrosion
- **time saving** during assembly due to instant **manual connection and disconnection**
- from **4mm** o.d. to **14 mm**
- BSP taper, BSP parallel and metric **threads**

High performance instant fittings

- designed for **industrial lubrication applications**
- for lubricating oils, liquids or viscous greases, oil sprays
- **safety** of installation: **immediate connection** but disconnection impossible without the use of tools
- from **4mm** o.d. to **10 mm** o.d., depending on the model
- BSP taper, metric taper and metric parallel threads

Technical tubes and hoses

- **a complete range** of fittings and in addition, a full range of tubes compatible with:
- **LF 3600 push-in fittings**: semi-rigid nylon tube, polyurethane tube, fluoropolymer FEP tube and polyethylene tube
- **LF 6000 push-in fittings**: anti-spark sheath enclosed tubing (nylon and polyurethane)
- instant fittings for **centralized lubrication**: rigid nylon tube

the complete range of push-in fittings for industrial and food applications

LF 3600 push-in fittings

threaded fittings

3675 taper Page C6

3621 taper Page C6

3601 parallel and metric Page C7

3681 metric Page C7

3614 parallel and metric Page C7

3631 parallel and metric Page C7

3609 taper Page C8

3629 taper Page C8

3600 Page C8

3699 parallel and metric Page C9

3669 parallel and metric Page C9

3608 taper Page C10

3603 taper Page C10

3698 parallel and metric Page C10

3693 parallel and metric Page C10

banjo body

3618 parallel and metric Page C11

tube-to-tube fittings

3606 Page C12

3602 Page C12

3604 Page C12

tube-to-tube bulkhead fittings

3616 Page C13

3636 parallel Page C13

3639 Page C13

plug-in accessories

3666 Page C14

3668 Page C14

3667 Page C14

3622 Page C15

3620 Page C15

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LF 6000 push-in fittings

threaded fittings

6001 parallel and metric Page C17

6099 parallel Page C17

6069 parallel Page C17

6018 parallel Page C17

6098 parallel Page C17

6005 taper Page C18

6009 taper Page C18

6008 taper Page C18

tube to tube fittings

6006 Page C19

6002 Page C19

6004 Page C19

6016 Page C19

6039 Page C19

High performance instant fittings

threaded fittings

6105 taper Page C21

6105 metric taper Page C21

6101 metric taper Page C22

6114 metric parallel Page C22

6179 taper page C21

6179 metric taper Page C21

tube-to-tube fittings

6106 Page C23

6104 Page C23

LF 3600 push-in fittings
for industrial and food applications

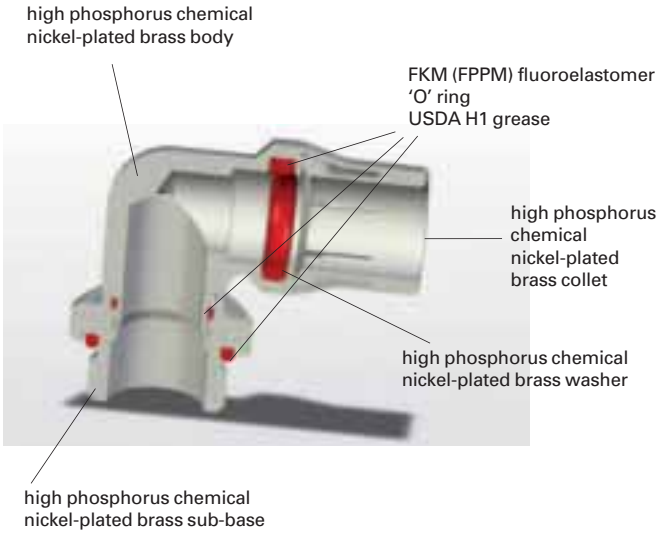
Its expertise in connection techniques and knowledge of market requirements enable Legris to propose an **improved range of LF 3600 push-in fittings** optimized for a greater number of **industrial, chemical, pharmaceutical and food applications**.

All metal LF 3600 (except sealing components) is compatible with many liquids and gases of normal aggressiveness and is ideal for environments that require mechanical strength- incorporating high phosphorus chemical nickel plating that authorized by **FDA** standard (Food & Drug Administration). The principle of connection is based on reliable technology, rigorously tried and tested by Legris : instant manual **connection** and **disconnection**.

0,02 l/h mini flow

Technical conditions of use

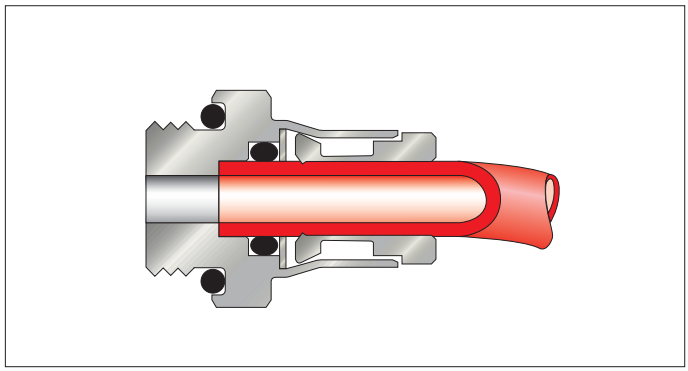
These depend on the nature and strength of the tube, the ambient temperature and that of the fluid conveyed.



All items in the LF 3600 range are silicone free

suitable fluids	Compressed air All liquids and gases compatible with the materials of the fitting. Permanent contact with food fluids is not recommended.					
working pressure	maximum 30 bar (limited to 20 bar for compact swivel elbow 3699 and 3689)					
working temperature	from – 20° to + 150°C					
vaccum capability	99% (755 mmHg)					
materials	**body :** high phosphorus FDA chemical nickel-plated brass **ring :** high phosphorus FDA chemical nickel-plated brass **gripping collett :** high phosphorus FDA chemical nickel-plated brass **sub-base :** high phosphorus FDA chemical nickel-plated brass **seals :** FKM (FPM) fluoroelastomer authorized by FDA standard					
maximum tightening torque for LF 3600, BSPP and metric threads	thread	M5x0,8	G1/8	G1/4	G3/8	G1/2
	da N.m	0,16	0,8	1,2	3	3,5

advantages of LF 3600 push-in fittings
for industrial and food applications

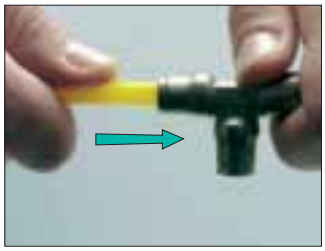


wide range

- multiple configurations
- from Ø 4mm to 14 mm
- BSP taper, BSP parallel and metric threads
- ideal for many types of technical tubes including metallic tubes (grooved)
- imperial to metric tube adaptors

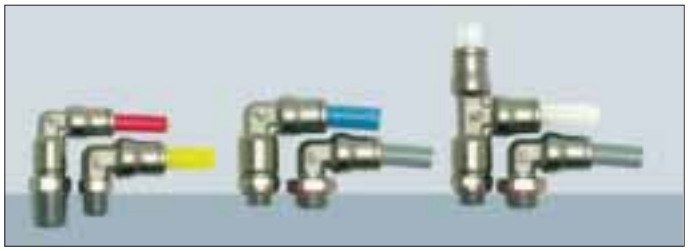
increased performance

- **excellent resistance to abrasion** and **corrosion** due to high phosphorus chemical nickel-plating of individual brass components
- **excellent resistance** to high temperature, pressure and vacuum
- **full flow fluid passage**, minimal pressure drop
- **automatic sealing** of BSPP and metric versions via an integral sub-base FKM seal
- an **HACCP-improved** product with particularly long threads to resist shocks, stress and vibrations
- **spring collet gripping** for long-term resistance



time saving connection and disconnection

- **instant manual connection** and **disconnection**
- **easy** installation



compactness and aesthetics

Each model has been designed to meet specific requirements :

- compactness due to **small overall dimensions** with inter-connectability for bespoke configurations
- aesthetic with modernised external shapes

numerous applications

- Suitable for many specialized applications, including those in the food industry :

- the automotive process industry (painting lines)
- the food process industry (coffee machines, meat processing...)
- printing machine applications
- medical equipment applications

Materials conform to FDA standards and to 1935/2004/CE European directive

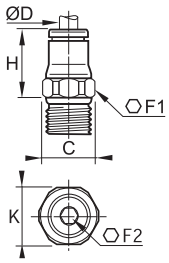
ability to suit your requirements

Legris has developed semi-standard LF 3600 models for specific appplications such as coffee machines. Do not hesitate to contact us with your specifications for further information.

Our production process includes individual unit quality control and dating, for all LF 3600 push-in fittings, in order to guarantee their quality and traceability.

3675 male stud BSP taper

nickel-plated brass

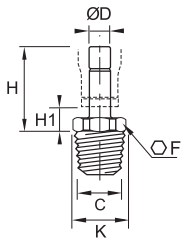


internal hexagon

ØD	C		F1	F2	H	K	kg
4	R1/8	3675 04 10	10	3	15	11	0,009
4	R1/4	3675 04 13	14	3	15	15	0,018
6	R1/8	3675 06 10	13	4	17	14	0,014
6	R1/4	3675 06 13	14	4	17	15	0,019
8	R1/8	3675 08 10	15	5	19	16	0,016
8	R1/4	3675 08 13	15	6	18	16	0,020
8	R3/8	3675 08 17	17	6	18,5	18,5	0,031
10	R1/4	3675 10 13	18	7	23	19,5	0,027
10	R3/8	3675 10 17	18	8	22,5	19,5	0,035
10	R1/2	3675 10 21	22	8	22,5	24	0,057
12	R1/4	3675 12 13	20	7	25,5	22	0,037
12	R3/8	3675 12 17	20	9	24	22	0,035
12	R1/2	3675 12 21	22	10	23	24	0,051
14	R3/8	3675 14 17	22	9	27	24	0,055
14	R1/2	3675 14 21	24	11	26	26	0,063

3621 male stud standpipe, BSP taper

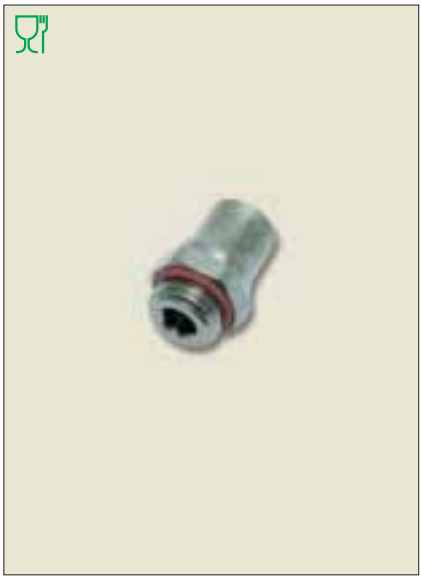
nickel-plated brass



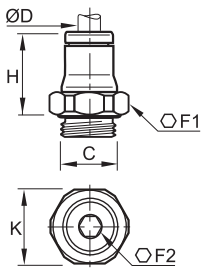
ØD	C		F	H	H1	K	kg
4	R1/8	3621 04 10	10	21	7	11	0,007
4	R1/4	3621 04 13	14	21	7	15	0,014
6	R1/8	3621 06 10	10	23,5	6,5	11	0,008
6	R1/4	3621 06 13	10	23,5	6,5	15	0,015
8	R1/8	3621 08 10	10	24	6,5	11	0,008
8	R1/4	3621 08 13	14	24	6,5	15	0,016
10	R1/4	3621 10 13	14	22	6,5	15	0,018
10	R3/8	3621 10 17	17	30	7,5	18,5	0,029
12	R3/8	3621 12 17	17	31	7,5	18,5	0,024
12	R1/2	3621 12 21	22	38	7,5	24	0,041
14	R1/2	3621 14 21	22	33	8	24	0,042

= suitable compressed air in for food applications

3601 male stud, BSP parallel and metric



nickel-plated brass with FKM 'O' ring thread seal

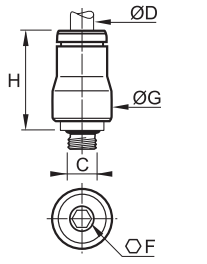


internal hexagon

ØD	C		F1	F2	H	K	kg
4	M5x0.8	3601 04 19	10	2,5	15,5	11	0,006
4	G1/8	3601 04 10	13	3	14,5	14	0,009
4	M6x1	3601 04 52	10	3	16	11	0,007
4	G1/4	3601 04 13	16	3	14,5	17,5	0,015
4	M8x1	3601 04 56	11	3	14,5	12	0,007
6	M5x0.8	3601 06 19	13	2,5	19	14	0,010
6	G1/8	3601 06 10	13	4	17,5	14	0,011
6	M10x1	3601 06 60	13	4	17,5	14	0,010
6	G1/4	3601 06 13	16	4	17	17,5	0,016
8	G1/8	3601 08 10	15	5	20	16	0,015
8	G1/4	3601 08 13	16	6	18	17,5	0,014
8	G3/8	3601 08 17	20	6	19	22	0,028
10	G1/4	3601 10 13	18	7	25	19,5	0,026
10	G3/8	3601 10 17	20	8	22,5	22	0,029
10	G1/2	3601 10 21	24	8	22,5	26	0,045
12	G1/4	3601 12 13	20	7	26,5	22	0,032
12	G3/8	3601 12 17	20	9	26	22	0,037
12	G1/2	3601 12 21	24	10	23,5	26	0,047
14	G3/8	3601 14 17	22	9	28	24	0,039
14	G1/2	3601 14 21	24	11	26,5	26	0,050

3681 male stud, metric thread

nickel-plated brass with FKM 'O' ring thread seal



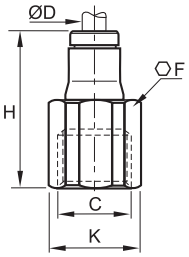
internal hexagon

ØD	C		F	G	H	kg
4	M5x0.8	3681 04 19	2,5	10	16	0,005

= suitable compressed air in for food applications

3614 female stud, BSP parallel and metric

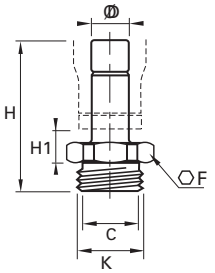
nickel-plated brass with FKM 'O' ring thread seal



ØD	C		F	H	K	kg
4	M5x0.8	3614 04 19	10	22	11	0,011
4	G1/8	3614 04 10	14	25	15	0,016
4	G1/4	3614 04 13	17	29	18,5	0,026
6	G1/8	3614 06 10	14	27,5	15	0,019
6	G1/4	3614 06 13	17	31,5	18,5	0,029
8	G1/8	3614 08 10	15	28,5	16	0,022
8	G1/4	3614 08 13	17	32,5	18,5	0,032
10	G3/8	3614 10 17	22	38	24	0,053
12	G3/8	3614 12 17	22	39	24	0,056
12	G1/2	3614 12 21	24	43,5	26	0,063

3631 male stud standpipe, BSP parallel and metric

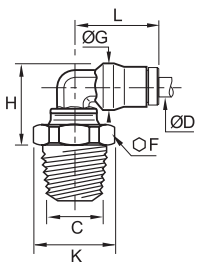
nickel-plated brass with FKM 'O' ring thread seal



ØD	C		F	H	H1	K	kg
4	M5x0.8	3631 04 19	13	25,5	7	14	0,003
4	G1/8	3631 04 10	16	26,5	7	17,5	0,007
4	G1/4	3631 04 13	8	25	7,5	8,7	0,011
6	G1/8	3631 06 10	13	28	6,5	14	0,008
6	G1/4	3631 06 13	16	29	6,5	17,5	0,012
8	G1/8	3631 08 10	13	28,5	6,5	14	0,009
8	G1/4	3631 08 13	16	29,5	6,5	17,5	0,013
8	G3/8	3631 08 17	20	30,5	7,5	22	0,021
10	G1/4	3631 10 13	16	34,5	6,5	17,5	0,017
10	G3/8	3631 10 17	20	35,5	7,5	22	0,023
10	G1/2	3631 10 21	24	37	7,5	26	0,029
12	G3/8	3631 12 17	20	36,5	7,5	22	0,021
12	G1/2	3631 12 21	24	38	7,5	26	0,031
14	G1/2	3631 14 21	24	40	8	26	0,031

3609 male stud elbow, BSP taper

nickel-plated brass

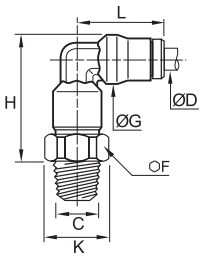


fitting will orientate about the body for positioning purposes

ØD	C		F	G	H	K	L	kg
4	R1/8	3609 04 10	13	10	15	12	18	0,014
4	R1/4	3609 04 13	14	10	17	15	18	0,020
6	R1/8	3609 06 10	13	12	17,5	12	21,5	0,018
6	R1/4	3609 06 13	14	12	19	15	21,5	0,025
8	R1/8	3609 08 10	13	15	19,5	12	23,5	0,023
8	R1/4	3609 08 13	14	15	21	15	23,5	0,028
8	R3/8	3609 08 17	17	15	21	18,5	23,5	0,034
10	R1/4	3609 10 13	15	17,5	23,5	16	29	0,038
10	R3/8	3609 10 17	17	17,5	25,5	18,5	29	0,042
12	R1/4	3609 12 13	15	19,5	26	16	31	0,052
12	R3/8	3609 12 17	17	19,5	28,5	18,5	31	0,052
12	R1/2	3609 12 21	21	19,5	28,5	23	31	0,070
14	R3/8	3609 14 17	19	21,5	29	21	34	0,066
14	R1/2	3609 14 21	22	21,5	30	26	34	0,076

3629 extended stud elbow, BSP taper

nickel-plated brass



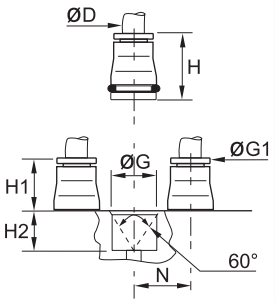
fitting will orientate about the body for positioning purposes

ØD	C		F	G	H	K	L	kg
4	R1/8	3629 04 10	10	10	24,5	11	18	0,016
6	R1/8	3629 06 10	13	12	29,5	14	21,5	0,025
6	R1/4	3629 06 13	14	12	30,5	15	21,5	0,031
8	R1/8	3629 08 10	14	15	32,5	15	23,5	0,031
8	R1/4	3629 08 13	14	15	34	15	23,5	0,036
10	R1/4	3629 10 13	18	17,5	39	19,5	29	0,053

= suitable compressed air in for food applications

3600 cartridge

nickel-plated brass with FKM 'O' ring thread seal



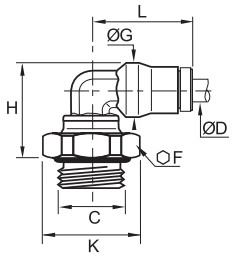
ØD	C		G	H1	H2	N	kg
4		3600 04 00	10	9	8,5	11	0,006
6		3600 06 00	12	11	8,5	13,5	0,009
8		3600 08 00	15	12,5	8,5	16	0,013
10		3600 10 00	17,5	14,5	10,5	20	0,020
12		3600 12 00	19,5	15	10,5	22,5	0,022
14		3600 14 00	22	16,5	12	25	0,032

The use of this cartridge
- avoids the needs to cut threads
- permits the part to be press fitted
- enables instant tube connection and disconnection

Please contact us to discuss the choice of material into which the cartridge will be inserted.

3699 male stud elbow, BSP parallel and metric

nickel-plated brass with FKM 'O' ring thread seal

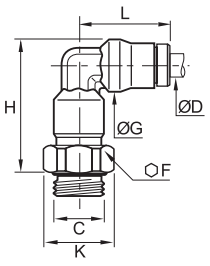


fitting will orientate about the body for positioning purposes

ØD	C		F	G	H	K	L	kg
4	M5x0.8	3699 04 19	10	10	18	11	18	0,012
4	G1/8	3699 04 10	13	10	17	14	18	0,015
4	M6x1	3699 04 52	10	10	18	11	18	0,012
4	G1/4	3699 04 13	16	10	17,5	17,5	18	0,018
4	M8x1	3699 04 56	11	10	18	12	18	0,013
6	G1/8	3699 06 10	13	12	19	14	21,5	0,018
6	M10x1	3699 06 60	13	12	19	14	21,5	0,018
6	G1/4	3699 06 13	16	12	19,5	17,5	21,5	0,022
8	G1/8	3699 08 10	13	15	20,5	14	23,5	0,023
8	G1/4	3699 08 13	16	15	21,5	17,5	23,5	0,025
8	G3/8	3699 08 17	20	15	21,5	22	23,5	0,033
10	G1/4	3699 10 13	16	17,5	27	17,5	29	0,039
10	G3/8	3699 10 17	20	17,5	25,5	22	29	0,040
12	G1/4	3699 12 13	16	19,5	29,5	17,5	31	0,051
12	G3/8	3699 12 17	20	19,5	28,5	22	31	0,053
12	G1/2	3699 12 21	24	19,5	28,5	26	31	0,060
14	G3/8	3699 14 17	20	21,5	29	22	34	0,060
14	G1/2	3699 14 21	24	21,5	29,5	26	34	0,064

3669 extended male stud elbow, BSP parallel and metric

nickel-plated brass with FKM 'O' ring thread seal



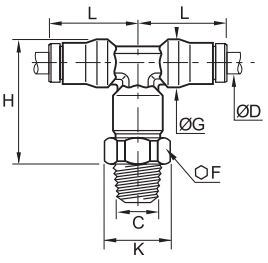
fitting will orientate about the body for positioning purposes

ØD	C		F	G	H	K	L	kg
4	M5x0.8	3669 04 19	10	10	27,5	11	18	0,015
4	G1/8	3669 04 10	13	10	25,5	14	18	0,017
6	G1/8	3669 06 10	13	12	31	14	18	0,023
6	G1/4	3669 06 13	16	12	30,5	17,5	21,5	0,028
8	G1/8	3669 08 10	14	15	33,5	15	23,5	0,031
8	G1/4	3669 08 13	16	15	34	17,5	23,5	0,036
10	G1/4	3669 10 13	18	17,5	42	19,5	29	0,053
10	G3/8	3669 10 17	20	17,5	41	22	29	0,056
12	G1/4	3669 12 13	20	19,5	47	22	31	0,075
12	G3/8	3669 12 17	20	19,5	46	22	31	0,072
14	G1/2	3669 14 21	24	22	49	26	34	0,094

= suitable compressed air in for food applications

3608 male stud branch tee, BSP taper

nickel-plated brass

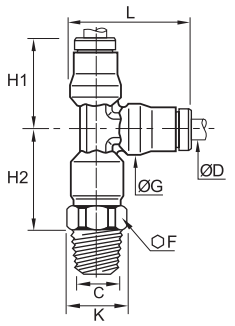


fitting will orientate about the body for positioning purposes

ØD	C		F	G	H	K	L	kg
4	R1/8	3608 04 10	11	10	24,5	11	18	0,020
6	R1/8	3608 06 10	11	12	29,5	14	21,5	0,031
6	R1/4	3608 06 13	14	12	30,5	15	21,5	0,041
8	R1/8	3608 08 10	11	15	32,5	15	23,5	0,041
8	R1/4	3608 08 13	14	15	34	15	23,5	0,048
10	R1/4	3608 10 13	15	17,5	39	19,5	29	0,070
10	R3/8	3608 10 17	17	17,5	41	19,5	29	0,074
12	R3/8	3608 12 17	17	19,5	46,5	22	31	0,103
14	R1/2	3608 14 21	24	21,5	50,5	24	34	0,142

3603 male stud run tee, BSP taper

nickel-plated brass

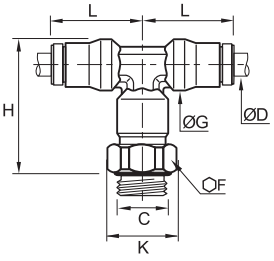


fitting will orientate about the body for positioning purposes

ØD	C		F	G	H1	H2	K	L	kg
4	R1/8	3603 04 10	10	10	18	19,5	11	23	0,020
6	R1/8	3603 06 10	13	12	21,5	23,5	14	28	0,031
6	R1/4	3603 06 13	14	12	21,5	24,5	15	28	0,041
8	R1/8	3603 08 10	14	15	23,5	25	15	31	0,041
8	R1/4	3603 08 13	14	15	23,5	26,5	15	31	0,048
10	R1/4	3603 10 13	18	17,5	29	30,5	19,5	37,5	0,070
10	R3/8	3603 10 17	18	17,5	29	32,5	19,5	37,5	0,074
12	R3/8	3603 12 17	20	19,5	31	36,5	22	40,5	0,103
14	R1/2	3603 14 21	22	21,5	34	40	24	45	0,142

3698 male stud branch tee, BSP parallel and metric

nickel-plated brass with FKM 'O' ring thread seal

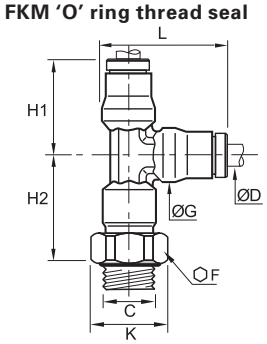


fitting will orientate about the body for positioning purposes

ØD	C		F	G	H	K	L	kg
4	M5x0.8	3698 04 19	10	10	27,5	11	18	0,020
4	G1/8	3698 04 10	13	10	25,5	14	18	0,021
6	G1/8	3698 06 10	13	12	31	14	21,5	0,033
6	G1/4	3698 06 13	16	12	30,5	17,5	21,5	0,034
8	G1/8	3698 08 10	14	15	33,5	15	23,5	0,041
8	G1/4	3698 08 13	16	15	34	17,5	23,5	0,045
10	G1/4	3698 10 13	18	17,5	42	19,5	29	0,066
12	G3/8	3698 12 17	20	19,5	46	22	31	0,100
14	G1/2	3698 14 21	24	21,5	49	26	34	0,109

3693 male stud run tee, BSP parallel and metric

nickel-plated brass with FKM 'O' ring thread seal



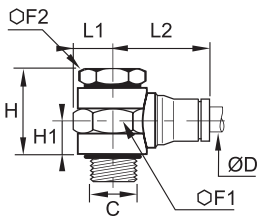
fitting will orientate about the body for positioning purposes

ØD	C		F	G	H1	H2	K	L	kg
4	M5x0.8	3693 04 19	10	10	18	22,5	11	23	0,020
4	G1/8	3693 04 10	13	10	18	20,5	14	23	0,021
6	G1/8	3693 06 10	13	12	21,5	25	14	28	0,033
6	G1/4	3693 06 13	16	12	21,5	24,5	17,5	28	0,033
8	G1/8	3693 08 10	14	15	23,5	26,5	15	31	0,041
8	G1/4	3693 08 13	16	15	23,5	26,5	17,5	31	0,045
10	G1/4	3693 10 13	18	17,5	29	33	19,5	37,5	0,066
12	G3/8	3693 12 17	20	19,5	31	36,5	22	40,5	0,100
14	G1/2	3693 14 21	24	21,5	34	38,5	26	45	0,129

= suitable for food applications

3618 single banjo, BSP parallel and metric

nickel-plated brass
with sealing washer



maximum temperature: +80°C

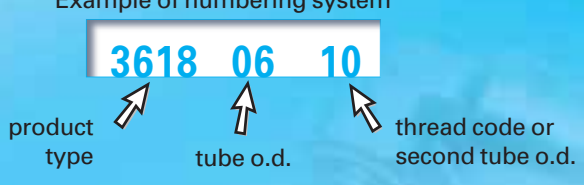
ØD	C		F1	F2	H	H1	L1	L2	kg
4	M5x0.8	3618 04 19	10	8	14,5	6,5	6	18,5	0,011
4	G1/8	3618 04 10	17	14	23	9,5	10	20,5	0,041
6	M5x0.8	3618 06 19	10	8	15	7	6	22,5	0,014
6	G1/8	3618 06 10	17	14	23	9,5	10	23,5	0,045
6	G1/4	3618 06 13	22	17	22	9	13	25,5	0,068
8	G1/8	3618 08 10	17	14	23	9,5	10	26	0,046
8	G1/4	3618 08 13	22	17	22	9	13	27,5	0,066
10	G3/8	3618 10 17	22	22	33	14	13	32	0,105

suitable for industrial applications only

Identification
Part numbers have been chosen by a method of mnemonics.
Each fitting is identified by:

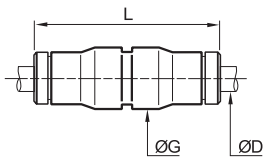
- product type
- the outside diameter of the tube
- the thread code or second tube o.d.

Example of numbering system



3606 equal tube to tube connector

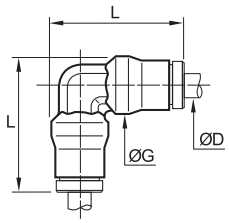
nickel-plated brass



ØD		G	L	kg
4	3606 04 00	10	30,5	0,010
6	3606 06 00	12	36,5	0,017
8	3606 08 00	15	37,5	0,021
10	3606 10 00	17,5	47,5	0,036
12	3606 12 00	19,5	50	0,046
14	3606 14 00	21,5	52,5	0,052

3602 equal elbow

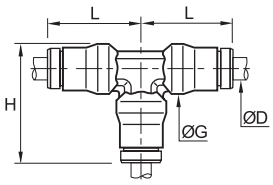
nickel-plated brass



ØD		G	L	kg
4	3602 04 00	10	23	0,011
6	3602 06 00	12	28	0,017
8	3602 08 00	15	31	0,023
10	3602 10 00	17,5	37,5	0,036
12	3602 12 00	19,5	40,5	0,046
14	3602 14 00	21,5	45	0,058

3604 equal tee

nickel-plated brass

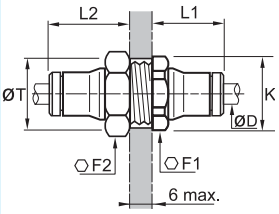


ØD		G	H	L	kg
4	3604 04 00	10	23	18	0,015
6	3604 06 00	12	28	21,5	0,023
8	3604 08 00	15	31	23,5	0,032
10	3604 10 00	17,5	37,5	29	0,049
12	3604 12 00	19,5	40,5	31	0,065
14	3604 14 00	21,5	45	34	0,078

= suitable for food applications

3616 equal bulkhead connector

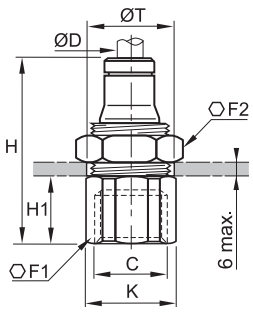
nickel-plated brass



ØD		F1	F2	K	L1	L2	T	kg
4	3616 04 00	13	14	14	14	20	12,5	0,019
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	0,036
10	3616 10 00	22	27	24	21,5	26,5	21	0,067
12	3616 12 00	24	24	26	23	27	23	0,068
14	3616 14 00	27	27	29,5	25,5	29,5	25	0,089

3636 female bulkhead connector, BSP parallel thread

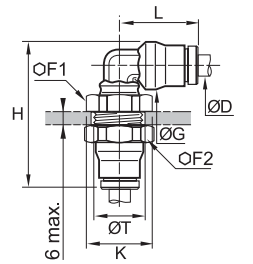
nickel-plated brass



ØD			F1	F2	H	H1	K	T	kg
4	G1/8	3636 04 10	14	14	30,5	11	15	13	0,025
6	G1/8	3636 06 10	17	17	33	11	18,5	15	0,038
6	G1/4	3636 06 13	17	17	37	15	18,5	15	0,033
8	G1/8	3636 08 10	19	19	34	10,5	21	17	0,044
8	G1/4	3636 08 13	19	19	38	14,5	21	17	0,053
10	G3/8	3636 10 17	22	27	42,5	16	24	21	0,089
12	G3/8	3636 12 17	24	24	43	16	26	23	0,103
12	G1/2	3636 12 21	27	24	48,5	21,5	29,5	23	0,123

3639 equal bulkhead elbow

nickel-plated brass



fitting will orientate about the body for positioning purposes

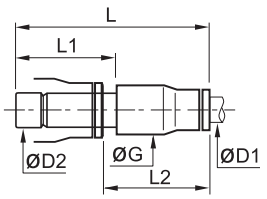
ØD		F1	F2	H	K	L	T	kg
4	3639 04 00	13	14	35	14	18	12,5	0,026
6	3639 06 00	16	17	40,5	17,5	21,5	15	0,039
8	3639 08 00	18	19	44	19,5	23,5	17	0,053
10	3639 10 00	22	27	51	24	29	21	0,080
12	3639 12 00	24	24	55	26	31	23	0,091
14	3639 14 00	27	27	59	29,5	34	25	0,114

= suitable for food applications

plug-in accessories

3666 plug-in reducer

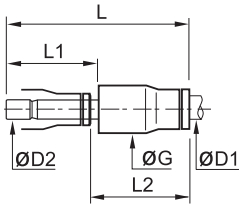
nickel-plated brass



ØD1	ØD2		G	L	L1	L2	kg
4	6	3666 04 06	10	35	19,5	18	0,008
4	8	3666 04 08	10	35,5	20	18	0,010
6	8	3666 06 08	12	38	20	20,5	0,013
6	10	3666 06 10	12	43,5	25	21	0,015
8	10	3666 08 10	15	44	25	21,5	0,017
8	12	3666 08 12	15	44	26	20,5	0,019
10	12	3666 10 12	17,5	50	26	27	0,028
12	14	3666 12 14	19,5	53	28	28,5	0,039

3668 plug-in increaser

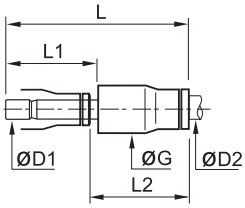
nickel-plated brass



ØD1	ØD2		G	L	L1	L2	kg
6	4	3668 06 04	12	36	17	21,5	0,010

3667 plug-in metric/imperial adaptor

nickel-plated brass



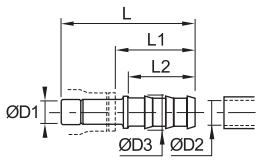
ØD1	ØD2		G	L	L1	L2	kg
6	1/4	3667 06 56	12,5	38,5	19,5	21	0,013
10	3/8	3667 10 60	17	49,5	25	27	0,027
12	1/2	3667 12 62	20	51	26	27,5	0,033

= suitable for food applications

This catalogue includes details of a wide range of brass accessories compatible with LF 3600.
Please refer to the Accessories section.

3622 plug-in barbed connector

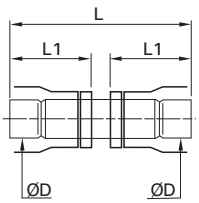
nickel-plated brass



ØD1	ØD2	ØD3		L	L1	L2	kg
4	3,2	5	3622 04 53	40,5	27	22,5	0,003
4	5	7	3622 04 05	40,5	27	22,5	0,004
6	5	7	3622 06 05	43	27	22,5	0,006
8	6,3	8,3	3622 08 56	42	25	22,5	0,008
8	8	10	3622 08 08	44	27	22,5	0,009
10	6,3	8,3	3622 10 56	47,5	25,5	22,5	0,011
10	8	10	3622 10 08	47,5	25,5	22,5	0,011
12	8	10	3622 12 08	48,5	25,5	22,5	0,013
12	10	12	3622 12 10	48,5	25,5	22,5	0,014
12	12,5	14,5	3622 12 62	57	34	29,5	0,019
14	12,5	14,5	3622 14 62	57,5	33	29,5	0,022
14	14	16	3622 14 14	59,5	35	29,5	0,023

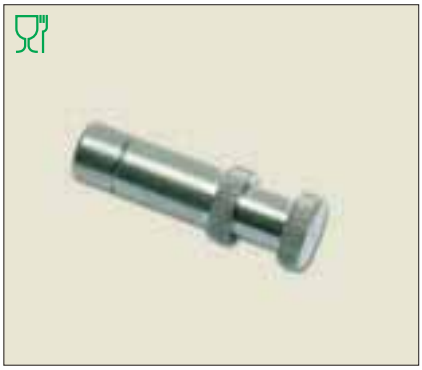
3620 double male stem connector

nickel-plated brass

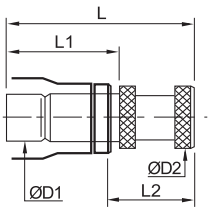


ØD		L	L1	kg
4	3620 04 00	31	14	0,002
6	3620 06 00	36,5	17	0,005
8	3620 08 00	37,5	17,5	0,007
10	3620 10 00	47,5	22,5	0,010
12	3620 12 00	49,5	23,5	0,014
14	3620 14 00	53	25	0,017

3626 blanking plug



nickel-plated brass



ØD1	ØD2		L	L1	L2	kg
4	6	3626 04 00	25,5	17	11,5	0,004
6	8	3626 06 00	30,5	19,5	13,5	0,009
8	10	3626 08 00	33	20	16	0,010
10	12	3626 10 00	40	25	18	0,015
12	14	3626 12 00	43	26	20	0,025
14	16	3626 14 00	47	28	22,5	0,029

= suitable for food applications

Legris' policy to offer its customers a **complete range of fittings**, and in addition, a full range of tubes, compatible with the LF 3600 range.

- **semi-rigid nylon tube** from 4 to 14 mm o.d.
- **flexible polyurethane tube, polyester base** from 4 to 14 mm o.d.
- **polyurethane tube, polyether base** from 4 to 14 mm o.d.
- **fluoropolymer FEP tube** from 4 to 12 mm o.d.
- **polyethylene tube** from 1/8 to 1/2 o.d. and from 4mm to 14mm o.d.

LF 6000 anti-spark push-in fittings

LF 6000 anti-spark push-in fittings combine LF 3000® technology with a protective cover specifically designed for excellent resistance to **severe conditions** of use, especially **spark and weld spatter projections**.

Advantages:

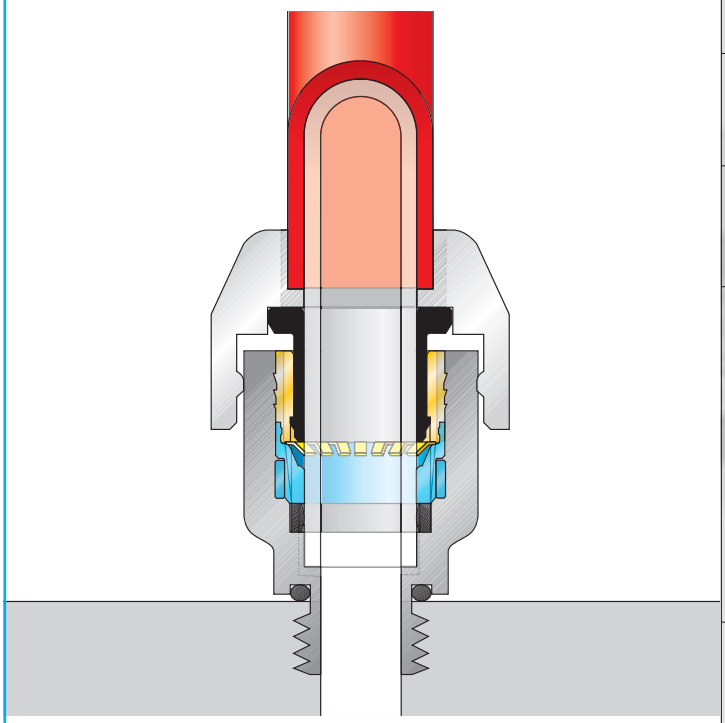
- **time saving** during assembly, due to manual instant connection/disconnection, no tools required
- **excellent protection** against sparks thanks to the integral cover
- full flow fluid passage
- **lightweight**, reduces the stresses encountered on robotic equipment

A wide range is complemented by an offer of **tubes** that conform to **UL94 VO**, thus providing a perfect solution for all applications submitted to aggressive environments and, in particular to spark and weld spatter projections.

Thanks to these technical specifications, LF 6000 push-in fittings are perfectly suited for the requirements of the **automotive process industry**.

technical specifications

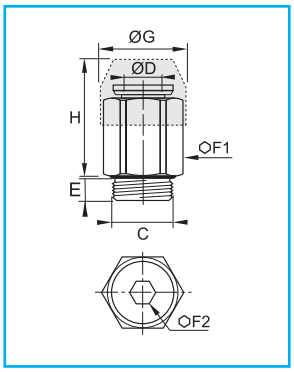
Depend on the nature and thickness of the tube, ambient temperature and fluid conveyed, together with the component materials of the fitting.



All items in the LF 6000 range are guaranteed SILICONE FREE

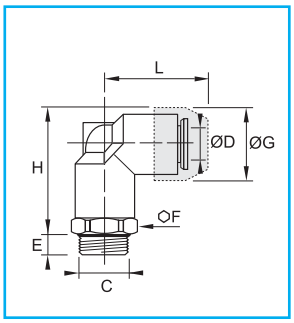
suitable fluids	compressed air, water, cooling liquids					
working pressure	compressed air : 10 bar maxi water, cooling liquids : 6 bar maxi					
vacuum capability	vacuum of 755 mmHg (99% vacuum)					
working temperature	compressed air : 0° to +60°C water, cooling liquids : +3° to +40°C					
materials	**body :** polymer, conforming to UL94 VO standard **'O' ring :** FPM **sub-base seal:** HNBR (nitrile) **protective cover:** santopren,conforming to UL94 VO standard					
maximum tightening torque for LF 6000, BSP parallel and metric	Thread					
	da N.m					

6001 male stud, BSP parallel and metric thread



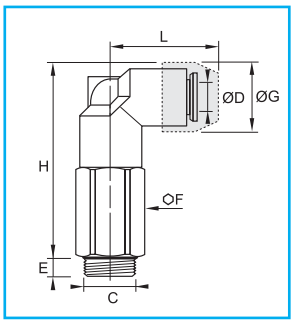
ØD	C		E	F1	F2	G	H	kg
6	M5x0,8	6001 06 19	4,5	13	2,5	17	19,5	0,010
6	G1/8	6001 06 10	5	13	4	17	17,5	0,011
6	G1/4	6001 06 13	5,5	16	4	17	17,5	0,021
8	G1/8	6001 08 10	5,5	16	5	19	25,5	0,023
8	G1/4	6001 08 13	5,5	16	6	19	24,5	0,024
8	G3/8	6001 08 17	5,5	20	6	19	23,5	0,035
10	G1/4	6001 10 13	7,5	20	7	24	26,5	0,045
10	G3/8	6001 10 17	5,5	20	8	24	25,5	0,038
10	G1/2	6001 10 21	7	24	8	24	24	0,049
12	G1/4	6001 12 13	7,5	22	7	26,5	31,5	0,055
12	G3/8	6001 12 17	8	22	8	26,5	30,5	0,058
12	G1/2	6001 12 21	7	24	10	26,5	28,5	0,058

6099 male stud elbow, BSP parallel thread



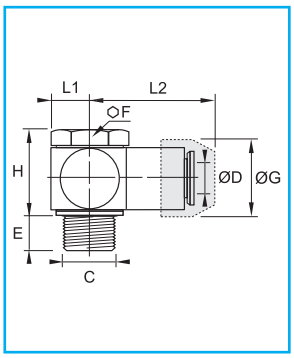
ØD	C		E	F	G	H	L	kg
6	G1/8	6099 06 10	4,5	14	17	30,5	25	0,018
6	G1/4	6099 06 13	5,5	16	17	30,5	25	0,023
8	G1/8	6099 08 10	4,5	16	19	37	27,5	0,029
8	G1/4	6099 08 13	5,5	16	19	33,5	27,5	0,026
8	G3/8	6099 08 17	5,5	20	19	33,5	27,5	0,034
10	G1/4	6099 10 13	5,5	21	24	45,5	34	0,050
10	G3/8	6099 10 17	5,5	21	24	42,5	34	0,050
12	G1/4	6099 12 13	5,5	24	26,5	49,5	38,5	0,055
12	G3/8	6099 12 17	5,5	24	26,5	49,5	38,5	0,064
12	G1/2	6099 12 21	7	24	26,5	47,5	38,5	0,070

6069 extended male stud elbow, BSP parallel thread



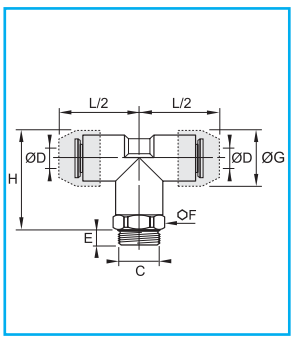
ØD	C		E	F	G	H	L	kg
6	G1/8	6069 06 10	4,5	14	17	49,5	25	0,052
6	G1/4	6069 06 13	5,5	16	17	51	25	0,054
8	G1/8	6069 08 10	4,5	16	19	62	27,5	0,114
8	G1/4	6069 08 13	5,5	16	19	55,5	27,5	0,063
8	G3/8	6069 08 17	5,5	20	19	56	27,5	0,092
10	G1/4	6069 10 13	5,5	21	24	73	34	0,000
10	G3/8	6069 10 17	5,5	21	24	69,5	34	0,120
12	G1/4	6069 12 13	5,5	24	26,5	76,5	38,5	0,164
12	G3/8	6069 12 17	5,5	24	26,5	77	38,5	0,151
12	G1/2	6069 12 21	7	24	26,5	80,5	38,5	0,160

6018 single banjo, BSP parallel thread



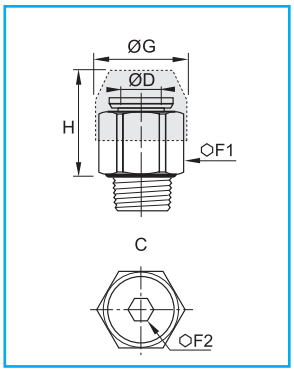
ØD	C		E	F	G	H	L1	L2	kg
6	G1/8	6018 06 10	8	14	17	21,6	8	28	0,022
6	G1/4	6018 06 13	10,5	17	17	21,5	10,5	29,5	0,024
8	G1/8	6018 08 10	8	14	19	21,6	8	30,5	0,029
8	G1/4	6018 08 13	10,5	17	19	21,1	10	32	0,031
8	G3/8	6018 08 17	11,5	22	19	24	13	33,5	0,048
10	G3/8	6018 10 17	11,5	22	24	25	13	45,5	0,060
12	G3/8	6018 12 17	11,5	22	26,5	24,2	13	52,5	0,065

6098 male stud branch tee, BSP parallel thread



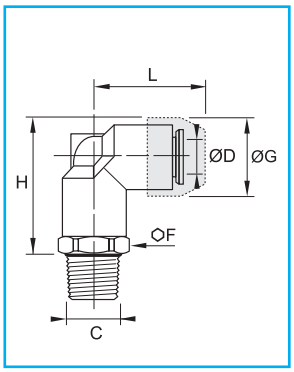
ØD	C		E	F	ØG	H	L/2	kg
6	G1/8	6098 06 10	4,5	14	17	31,5	25	0,023
6	G1/4	6098 06 13	5,5	16	17	31,5	25	0,030
8	G1/8	6098 08 10	4,5	16	19	37	27,5	0,031
8	G1/4	6098 08 13	5,5	16	19	34	27,5	0,035
8	G3/8	6098 08 17	5,5	20	19	34	27,5	0,040
10	G1/4	6098 10 13	5,5	21	24	45	34	0,058
10	G3/8	6098 10 17	5,5	21	24	42	34	0,060
12	G1/4	6098 12 13	5,5	24	26,5	49	38,5	0,077
12	G3/8	6098 12 17	5,5	24	26,5	50	38,5	0,080

6005 male stud, BSP taper thread



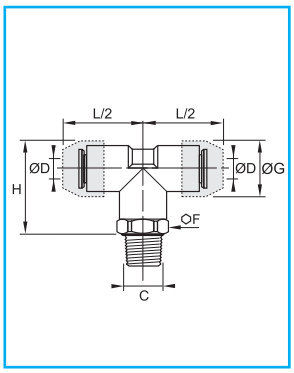
ØD	C		F1	F2	G	H	kg
6	R1/8	6005 06 10	13	4	17	16,8	0,011
6	R1/4	6005 06 13	14	4	17	18	0,018
8	R1/8	6005 08 10	15	5	20	21,5	0,200
8	R1/4	6005 08 13	15	6	20	22,5	0,020
8	R3/8	6005 08 17	17	6	20	21	0,028
10	R1/4	6005 10 13	20	7	24	26,2	0,036
10	R3/8	6005 10 17	20	8	24	25,2	0,033
12	R1/4	6005 12 13	22	7	26,5	23,5	0,059
12	R3/8	6005 12 17	22	9	26,5	30	0,055
12	R1/2	6005 12 21	22	10	26,5	25,5	0,055

6009 male stud elbow, BSP taper thread



ØD	C		F1	F2	G	H	L	kg
6	R1/8	6009 06 10	14	17	31,5	25	25	0,018
6	R1/4	6009 06 13	14	17	32	25	25	0,023
8	R1/8	6009 08 10	16	20	33	27,5	27,5	0,029
8	R1/4	6009 08 13	16	20	33	27,5	27,5	0,026
8	R3/8	6009 08 17	17	20	33	27,5	27,5	0,034
10	R1/4	6009 10 13	21	20	43	34	34	0,050
10	R3/8	6009 10 17	21	24	43	34	34	0,050
12	R1/4	6009 12 13	24	26,5	50,5	38,5	38,5	0,055
12	R3/8	6009 12 17	24	26,5	50,5	38,5	38,5	0,064
12	R1/2	6009 12 21	24	26,5	48,5	38,5	38,5	0,070

6008 male stud branch tee, BSP taper thread

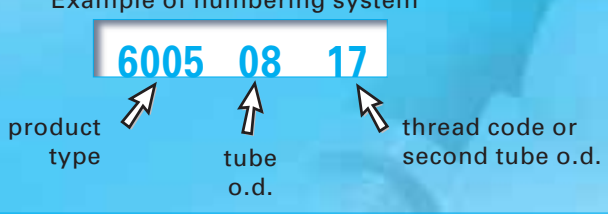


ØD	C		F	G	H	L/2	kg
6	R1/8	6008 06 10	14	17	31,5	25	0,023
6	R1/4	6008 06 13	14	17	32	25	0,030
8	R1/8	6008 08 10	16	20	34	27,5	0,031
8	R1/4	6008 08 13	16	20	33	27,5	0,035
10	R1/4	6008 10 13	21	24	43	34	0,058
10	R3/8	6008 10 17	21	24	43	34	0,060
12	R1/4	6008 12 13	24	26,5	50,5	38,5	0,077
12	R3/8	6008 12 17	24	26,5	50,5	38,5	0,080
12	R1/2	6008 12 21	24	26,5	48,5	38,5	0,085

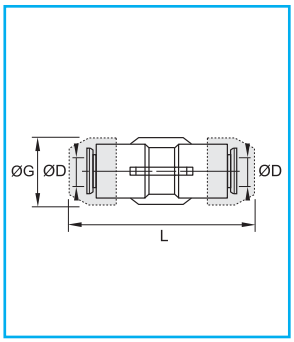
Identification
Part numbers have been chosen by a method of mnemonics.
Each fitting is identified by:

- product type
- the outside diameter of the tube
- the thread code or second tube o.d.

Example of numbering system

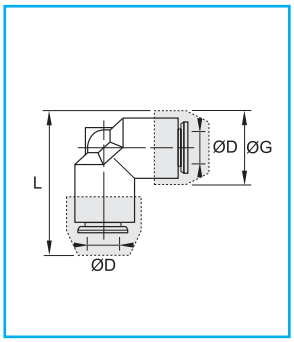


6006 equal tube to tube connector



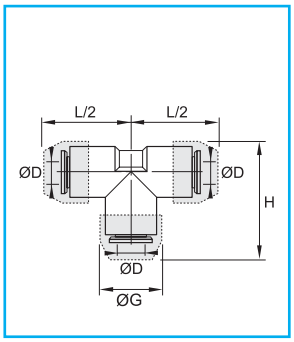
ØD		G	L	kg
6	6006 06 00	13,5	50	0,008
8	6006 08 00	16	55	0,011
10	6006 10 00	21	58	0,028
12	6006 12 00	23,5	65	0,040

6002 equal elbow



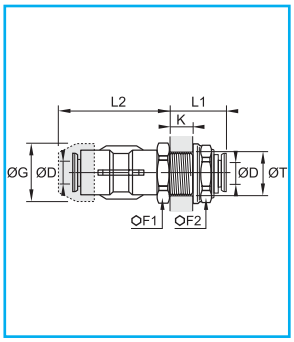
ØD		G	L	kg
6	6002 06 00	17	33,5	0,008
8	6002 08 00	19	37	0,011
10	6002 10 00	24	46	0,028
12	6002 12 00	26,5	51,5	0,040

6004 equal tee



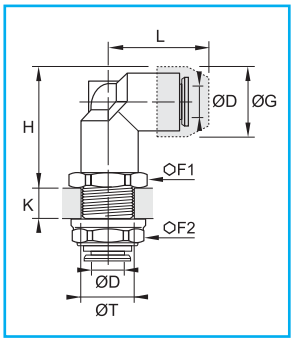
ØD		G	H	L/2	kg
6	6004 06 00	17	33,5	25	0,017
8	6004 08 00	19	37	27,5	0,020
10	6004 10 00	24	46	34	0,044
12	6004 12 00	26,5	51,5	38,5	0,063

6016 bulkhead connector



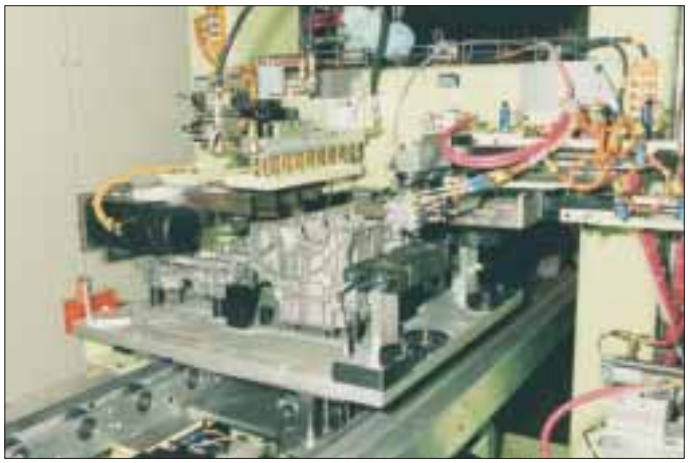
ØD		F1	F2	G	K maxi	L1	L2	T mini	kg
6	6016 06 00	17	15	17	8	19	47	12,5	0,025
8	6016 08 00	19	18	19	8,5	20,5	51	15,5	0,044
10	6016 10 00	22	22	24	8	22,5	54	18,5	0,072
12	6016 12 00	24	26	26,5	8,5	27	60,5	22,5	0,100

6039 equal bulkhead elbow



ØD		F1	F2	G	H	K maxi	L	T mini	kg
6	6039 06 00	17	15	17	30,5	8	25	12,5	0,025
8	6039 08 00	19	18	20	33	8,5	27,5	15,5	0,046
10	6039 10 00	22	22	24	42	8	34	18,5	0,074
12	6039 12 00	24	26	26	47,5	8,5	38,5	22,5	0,100

high performance instant fittings

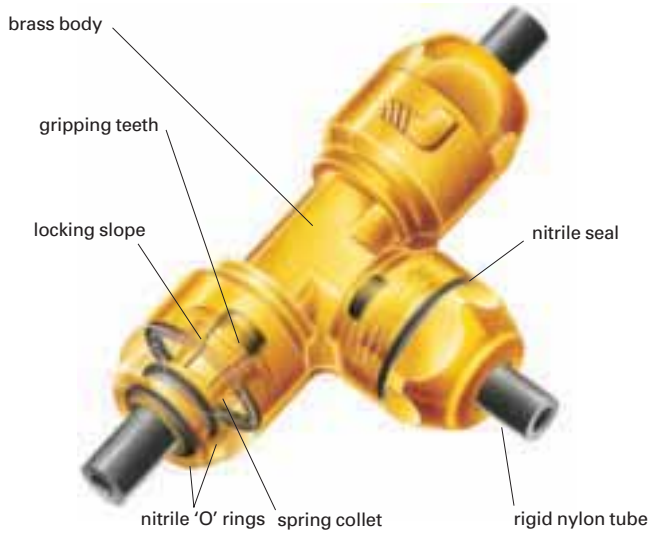


This range of fittings has been specifically designed for all applications that require perfect sealing and excellent resistance to pressure and temperature.
It's strong construction enables this range to be used in mechanically demanding environments.
- sealing is ensured by 2 "O" rings in addition to the gripping teeth, thus preventing scratching of the tube
- safety is enhanced since the tube cannot be disconnected without the use of a spanner

These characteristics provide a perfect component for such applications as :
- lubrication circuits on industrial machinery : wood industry, textile, paper, cement industry…
- lubrication on industrial equipment and vehicles (trucks)
- lubrication on public works vehicles (mobile cranes) and agricultural equipment.
- laboratories and measurement systems
- industrial vacuum (metal tubing)

technical specifications

Reliable performance is dependent upon the tube being used, ambient temperature and fluid conveyed together with the component materials of the fitting.



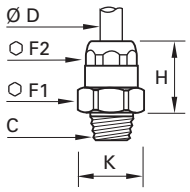
suitable fluids	compressed air, vacuum, other compatible fluids and gases
working pressure	Maximum 60 bar dependant upon the working temperature and type of tube used (See table on page C22). **For use at higher pressure, please consult us.**
working temperature	-40°C to +120°C dependent upon the material and the O.D. of the tube used. (See table on page C22).
materials of construction	brass nitrile rubber 'O' rings and seals.

maximum/minimum tightening torques

thread	M6 x1	M8 x1	M8 x1,25	M10 x1	M12 x1	M14 x1,5	R1/8"	R1/4"
da N.m	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			

6105 male stud fitting with BSPT thread

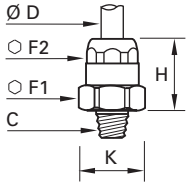
brass



ØD	C		F1	F2	H	K	kg
4	R1/8	6105 04 10	13	11	14,5	14	0,014
4	R1/4	6105 04 13	14	11	12,5	15	0,018
6	R1/8	6105 06 10	17	14	17,5	18,5	0,025
6	R1/4	6105 06 13	17	14	16,5	18,5	0,028

6105 male stud fitting with metric taper thread

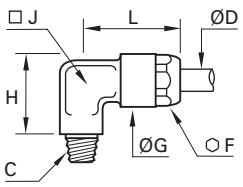
brass



ØD	C		F1	F2	H	K	kg
4	M6x1	6105 04 52	13	11	16,5	14	0,013
4	M8x1	6105 04 56	13	11	14,5	14	0,012
4	M8x1,25	6105 04 57	13	11	14,5	14	0,012
4	M10x1	6105 04 60	13	11	14,5	14	0,014
6	M10x1	6105 06 60	17	14	16,5	18,5	0,022
6	M14x1,5	6105 06 71	17	14	16,5	18,5	0,027
8	M12x1	6105 08 65	19	21	22,5	21	0,042
10	M14x1,5	6105 10 71	22	24	26	24	0,060

6179 male stud elbow with BSPT thread

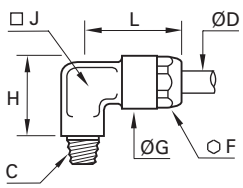
brass



ØD	C		F	G	H	J	L	kg
4	R1/8	6179 04 10	11	12,5	15,5	6	20	0,016
4	R1/4	6179 04 13	11	12,5	17	6	20	0,023
6	R1/8	6179 06 10	14	16	18	8	24,5	0,029
6	R1/4	6179 06 13	14	16	19	8	24,5	0,033

6179 male stud elbow with metric taper thread

brass

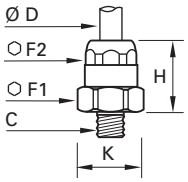


ØD	C		F	G	H	J	L	kg
4	M6x1	6179 04 52	11	12,5	14,5	6	20	0,015
4	M8x1	6179 04 56	11	12,5	15	6	20	0,015
4	M8x1,25	6179 04 57	11	12,5	15	6	20	0,015
4	M10x1	6179 04 60	11	12,5	15,5	6	20	0,016
6	M10x1	6179 06 60	14	16	18	8	24,5	0,016
6	M12x1	6179 06 65	14	16	18	8	24,5	0,029
8	M12x1	6179 08 65	17	19	21	10	28,5	0,047

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

6101 male stud fitting with metric parallel thread

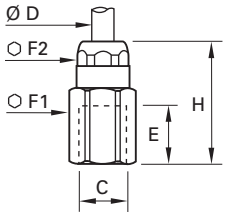
brass



ØD	C		F1	F2	H	K	kg
4	M10x1	6101 04 60	13	11	14	14	0,014
6	M10x1	6101 06 60	17	14	17,5	18,5	0,025
6	M12x1	6101 06 65	17	14	16,5	18,5	0,024

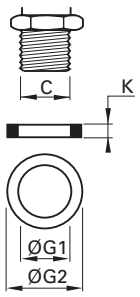
6114 female stud fitting with metric parallel thread

brass



ØD	C		E	F1	F2	H	kg
4	M8x1	6114 04 56	8	13	11	25,5	0,020
6	M8x1	6114 06 56	8	17	14	28,5	0,041

0138 copper washer



ØD		G1	G2	K	kg
8	0138 08 00	8,3	11	1	0,001
10	0138 10 00	10,3	13,5	1	0,001
12	0138 12 00	12,3	15,5	1,5	0,001

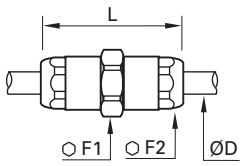
Instant fittings for centralized lubrication

Working pressure/temperature dependant upon the tube used

	-40°C +20°C		+20°C +30°C		+30°C +50°C		+50°C +80°C		+80°C +110°C	R minimum bend radius for cold tube in mm		
Ø tube mm	Nylon		Nylon		Nylon		Nylon			Nylon		
	semi-rigid	rigid	semi-rigid	rigid	semi-rigid	rigid	semi-rigid	rigid	FEP	semi-rigid	rigid	FEP
2 x 4	40	-	33	-	25,5	-	19	-	-	25	-	-
2,5 x 4	-	52	-	43	-	32	-	24,5	7	-	35	20
2,7 x 4	23	-	19	-	15	-	11	-	-	30	-	-
4 x 6	24	45	20	37	15,5	29	11	21	6	35	45	30
5 x 8	-	52	-	43	-	33	-	24	-	-	70	-
6 x 8	17	32	14	27	11	21	8	15	4	55	65	50
6 x 10	-	57	-	47	-	37	-	27	-	-	85	-
7,5 x 10	17	-	14	-	11	-	8	-	-	75	-	-
8 x 10	14	-	12	-	9	-	7	-	3	90	-	60

6106 tube/tube connector

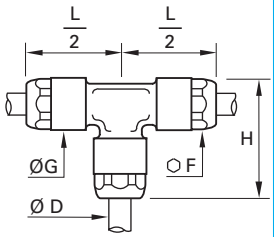
brass



ØD		F1	F2	L	kg
4	6106 04 00	13	11	34	0,025
6	6106 06 00	17	14	37	0,042
8	6106 08 00	19	17	43	0,069

6104 equal tee

brass

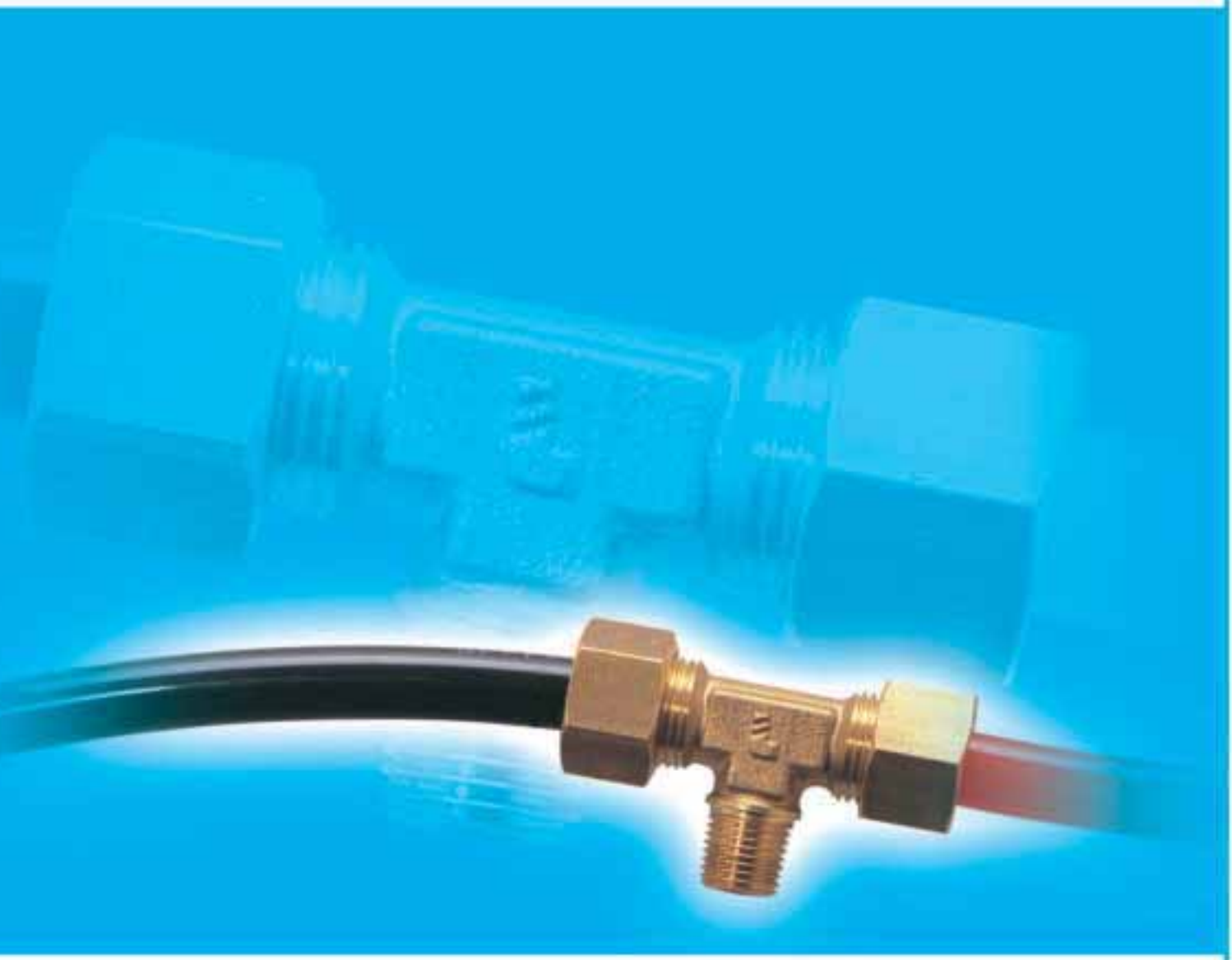


ØD		F	G	H	L/2	kg
4	6104 04 00	11	12,5	26,5	20	0,031
6	6104 06 00	14	16	32,5	24,5	0,066
8	6104 08 00	17	19	38	28,5	0,103

The **Legris** push in system for **centralized lubrication** is designed for use with **various plastic tubing** found in sectionM :

- **rigid nylon tube :** 4mm OD to 8 mm OD
- **semi-rigid nylon tube :** 4mm OD to 8 mm OD
- **fluoropolymer tube :** 4mm OD to 8 mm OD

brass compression fittings



legris connectic

principle of universal brass compression fittings

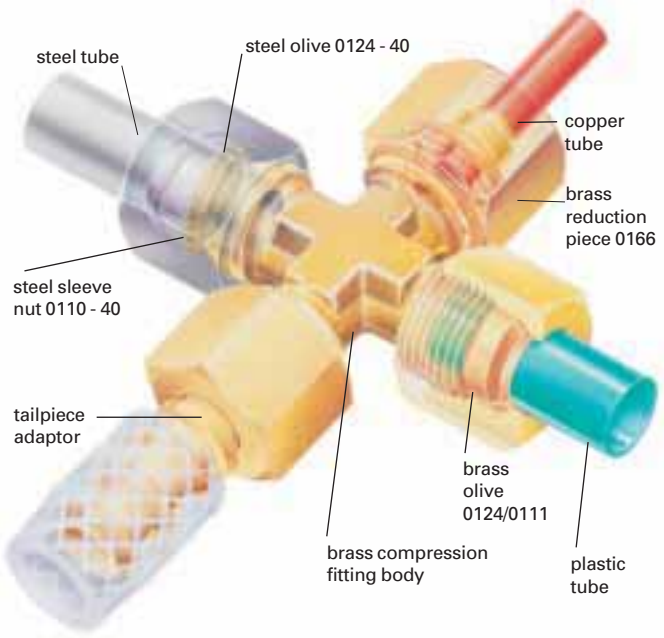
The range is called universal as it offers the maximum number of direct fitting alternatives with the minimum number of components. Tube threading and soldering are unnecessary. Universal brass compression fittings are designed to solve all fluid distribution problems and provide a complete system of fittings suited to all types of tubing, cylinders and valve assemblies thanks to the flexibility offered by the vast range of accessories : olives, sleeve nuts, reducers, tube adaptors.
All components conform to at least one of the following standards : **ISO, CETOP, AFNOR, CNOMO**.

fitting instructions

Each Legris brass compression fitting comprises a body, olive and sleeve nut.
Cut the tube square, deburr inner and outer edges ;
If required, any bending of the tube must be completed prior to connection.
Push the sleeve nut onto the tube. For large diameters, lubricate the inside of the nut to facilitate tightening.
Fit the olive onto the end of the tube, after the sleeve nut.
Firmly push the tube fully home against the shoulder of the body of the fitting.
Tightening of the nut enables the olive to bite into the tube and secures the fully assembled fitting.
It is recommended that a ferrule is inserted into ''soft'' tubing, such as nylon and polyurethane tubing, in order to stabilise the tube wall during assembly.

Technical specification

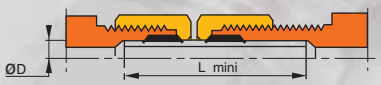
Details of fittings specifications for use with copper, brass, steel or nylon tubing can be found on page D4 and D5 of this section. Please consult us regarding applications which include thermal shocks or excessive vibration.



The table below shows the standard recommended compatibility of tube size, BSP male thread and maximum passage diameter.

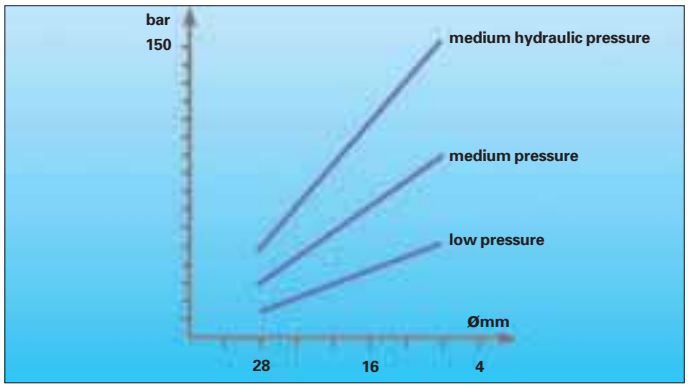
Ø tube o.d.	corresponding BSP thread	maximum passage (mm)
4-5-6	G1/8	4
6-8-10	G1/4	7
10-12-14	G3/8	11
14-15-16-18	G1/2	14
18-20-22	G3/4	18
22-25-28	G1"	24

Minimum tube length (L) required between two fittings



ØD (L)	ØD (L)	ØD (L)
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	

principle of universal brass compression fittings



suitable for different pressure ranges

- low, medium compressed air pressure
- medium hydraulic pressure
- for compressed air, fuel oil, hydrocarbon, water…etc.

extensive connection in all industrial fields

- many connection possibilities
- direct assembly, without soldering or tubing preparation

a large range for many applications

- 18 different body configurations from 4 mm to 28 mm
- many accessories
- for use with :
  - BSP parallel threads with nitrile or bi-material seal
  - metric parallel threads
  - BSP taper threads
  - NPT threads

Some models are available body only -without nut or ring. Please do not hesitate to contact us.

use to connect different types of tubing

- copper to brass
- plastic (nylon, polyurethane, fluoropolymer, PVC…)
- steel
- rubber

use to connect different diameter tubing

- with the Legris Reduction Assembly, different types and diameters of tubing can be easily connected.

barbed fittings

perfectly adapted to the requirements of industry :

- no tools are required and no nuts or collars to tighten
- connection to self-fastening tubing

special products

Where a standard product is unsuitable, Legris is willing to develop special products for specific applications.

technical specifications

To enable the user to obtain the best results from Legris brass compression fittings due regard to the application and tube used is necessary. As a guide the table below details the service pressures of the fitting assembly together with the service and burst pressures of various tubes. The pressures are expressed in Bar or kg/cm and are provided in good faith – however they should be taken only as a guide and are not guaranteed.

type of tube	**copper tube** 'cold drawn' from straight bars	**steel tube** 'thin wall' unwelded cold drawn from annealed straight bars
type of assembly	with brass nut and olive	with treated steel olive and nut **(suffix 40)**

metric tube designation	tube dimensions		maximum pressure of fitting assembly	maximum service pressure of tube	burst pressure of tubes	continuous maximum service pressure	service pressure with intermittent surge	maximum intermittent surge pressure	maximum service pressure of tube	burst pressure of tube
	o.d.	wall thickness								
2 x 4	**4**	**1**	230	440	2 200	550	460	970	580	1 850
3 x 5	**5**	**1**	190	280	1 400	470	370	860	490	1 400
4 x 6	**6**	**1**	150	220	1 100	400	290	770	420	1 230
6 x 8	**8**	**1**	100	145	730	310	225	590	320	920
8 x 10	**10**	**1**	75	110	550	240	185	480	250	740
10 x 12	**12**	**1**	55	85	440	200	145	400	210	616
12 x 14	**14**	**1**	45	73	360	160	125	340	180	530
13 x 15	**15**	**1**	42	66	330	150	115	310	165	490
14 x 16	**16**	**1**	40	62	310	140	110	280	155	460
16 x 18	**18**	**1**	37	55	270	120	85	230	130	400
15,6 x 18	**18**	**1,2**	55	67	450					
18 x 20	**20**	**1**	35	45	240	100	70	190	110	340
17,6 x 20	**20**	**1,2**	50	60	300					
20 x 22	**22**	**1**	30	32	210	90	60	160	90	290
18,8 x 22	**22**	**1,6**	60	74	370					
23 x 25	**25**	**1**	20	30	180	70	40	115	70	240
21,8 x 25	**25**	**1,6**	55	64	320					
26 x 28	**28**	**1**	25	33	165					
24,8 x 28	**28**	**1,6**	40	56	280					
24 x 28	**28**	**2**	50	73	365					

brass tube : supplied in straight lengths : figures as above
copper tube : supplied in coils : **reduce the above service pressures by 35 %.**
Do not use in areas of vibration.

IMPORTANT : for use only on thin wall tubing from o.d. 6 mm to o.d. 16 mm - maximum wall thickness 1mm.
Above 16 mm maximum wall thickness 1,5 mm.

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 specifications

The table below is valid at 20° C. For other temperatures apply the relevant coefficient.

temperature °C	- 40°C/ -15°C	- 15°C/ +30°C	+31°C/ +50°C	+51°C/ +70°C	+71°C/ +100°C
coefficient	1,8 not advised	**1**	0,68	0,55	0,31 not advised

type of tube — **nylon tube (semi-rigid)**

for rigid nylon type, multiply figures on the table below by 1,8

assembly	with brass nut and olive	with plastic nut and brass olive (type suffix 70)

metric tube designation	tube dimensions		maximum service pressure of fitting assembly	maximum service pressure of nylon tube	burst pressure of tube	maximum service pressure of fitting assembly	maximum service pressure of nylon tube	burst pressure of tube
	o.d.	wall thic-kness						
3 x 4	**4**	**0,5**	20	20	65	10	20	65
*** 2,7 x 4**	**4**	**0,65**	25	25	75	10	25	75
*** 2 x 4**	**4**	**1**	40	50	135	10	50	135
*** 3,3 x 5**	**5**	**0,85**	30	30	70			
*** 4 x 6**	**6**	**1**	32	32	85	10	32	85
*** 6 x 8**	**8**	**1**	22	22	58	10	22	58
*** 8 x 10**	**10**	**1**	16	16	42	10	16	42
*** 7,5 x 10**	**10**	**1,25**	23	23	57	10	23	57
*** 10 x 12**	**12**	**1**	12	12	32	10	12	32
*** 9 x 12**	**12**	**1,5**	22	22	63	10	22	63
*** 12 x 14**	**14**	**1**	10	10	27	10	10	27
*** 11 x 14**	**14**	**1,5**	16	16	52	10	16	52
10,4 x 14	**14**	**1,8**	22	22	66	10	22	66
12 x 15	**15**	**1,5**	14	14	48			
11 x 15	**15**	**2**	23	23	70			
*** 13 x 16**	**16**	**1,5**	12	12	44	10	12	44
12 x 16	**16**	**2**	21	21	66	10	21	66
14 x 18	**18**	**2**	17	17	58			
15 x 20	**20**	**2,5**	20	20	69			
16 x 22	**22**	**3**	21	21	75			
19 x 25	**25**	**3**	18	18	68			
23 x 28	**28**	**2,5**	16	16	50			
22 x 28	**28**	**3**	20	20	60			

*sizes marked are available from stock

Our brass compression fittings are not compatible with ammonia and its derivatives (ammonia fumes for example).

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

Legris brass compression fittings

the complete range of brass compression fittings

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0120 taper
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0112 metric
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0168...39 parallel
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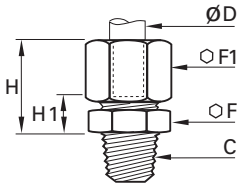
0105 male stud coupling , BSP taper thread

brass

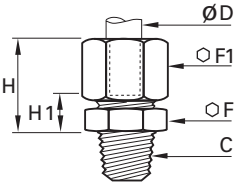


ØD	C		F	F1	H maxi	H1	kg
4	R1/8	0105 04 10	10	10	17	7	0,013
5	R1/8	0105 05 10	11	12	17,5	7,5	0,017
5	R1/4	0105 05 13	14	12	17,5	7,5	0,022
6	R1/8	0105 06 10	11	13	18	7,5	0,017
6	R1/4	0105 06 13	14	13	18	7,5	0,024
6	R3/8	0105 06 17	17	13	19	8,5	0,031
8	R1/8	0105 08 10	13	14	19,5	7	0,021
8	R1/4	0105 08 13	14	14	19,5	7	0,026
8	R3/8	0105 08 17	17	14	20,5	8	0,032
10	R1/8	0105 10 10	17	19	24	9	0,043
10	R1/4	0105 10 13	17	19	24	9	0,047
10	R3/8	0105 10 17	17	19	24	9	0,048
10	R1/2	0105 10 21	22	19	25	10	0,067
12	R1/4	0105 12 13	19	22	24	9	0,059
12	R3/8	0105 12 17	19	22	24	9	0,061
12	R1/2	0105 12 21	22	22	25	10	0,076
14	R1/4	0105 14 13	22	24	25	8	0,067
14	R3/8	0105 14 17	22	24	25	8	0,069
14	R1/2	0105 14 21	22	24	26	9	0,079
14	R3/4	0105 14 27	27	24	27	10	0,105
15	R3/8	0105 15 17	22	24	25	8	0,064
15	R1/2	0105 15 21	22	24	26	9	0,075
16	R1/4	0105 16 13	24	27	27	9,5	0,091
16	R3/8	0105 16 17	24	27	27	9,5	0,092
16	R1/2	0105 16 21	24	27	27	9,5	0,100
16	R3/4	0105 16 27	27	27	28	10,5	0,120
18	R1/2	0105 18 21	27	30	30	10,5	0,130
18	R3/4	0105 18 27	27	30	30	10,5	0,140
20	R1/2	0105 20 21	30	32	32	11	0,148
20	R3/4	0105 20 27	30	32	32	11	0,156
22	R1/2	0105 22 21	32	36	33	11	0,180
22	R3/4	0105 22 27	32	36	33	11	0,193
22	R1"	0105 22 34	36	36	33	11	0,226
25	R3/4	0105 25 27	36	41	36	11	0,263
25	R1"	0105 25 34	36	41	36	11	0,277
28	R3/4	0105 28 27	41	42	36	11	0,272
28	R1"	0105 28 34	41	42	36	11	0,287

Metric taper threads or Briggs NPT threads are available to special order, subject to minimum quantities.

0105 male stud coupling, NPT thread

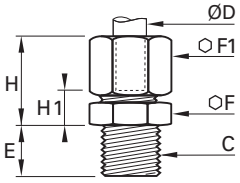
brass



ØD	C		F	F1	H maxi	H1	kg
6	1/8	0105 06 11	11	13	18	7,5	0,018
6	1/4	0105 06 14	14	13	18	7,5	0,028
8	1/8	0105 08 11	13	14	21	7	0,021
8	1/4	0105 08 14	14	14	18,5	7	0,026
10	1/4	0105 10 14	17	19	24	9	0,047
10	3/8	0105 10 18	17	19	24	9	0,048
10	1/2	0105 10 22	22	19	25	10	0,067

0101 male stud coupling, parallel metric thread

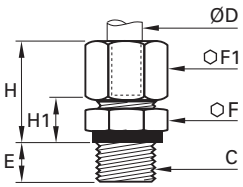
brass



ØD	C		E	F	F1	H maxi	H1	kg
4	M7x1	0101 04 55	6,5	10	10	16,5	7,5	0,013
4	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
5	M10x1	0101 05 60	6,5	14	12	17,5	8,5	0,021
6	M10x1	0101 06 60	6,5	14	13	18	8,5	0,022
6	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	0,031
8	M12x1,25	0101 08 66	8	17	14	19,5	9	0,031
8	M13x1,25	0101 08 68	8	17	14	19,5	9	0,032
10	M14x1,25	0101 10 70	8	17	19	24	11	0,047
10	M14x1,5	0101 10 71	8	17	19	24	11	0,047
10	M16x1,25	0101 10 74	9	19	19	24	11	0,052
10	M16x1,5	0101 10 75	9	19	19	24	11	0,054
10	M18x1,5	0101 10 78	9	22	19	24	11,5	0,060
12	M16x1,25	0101 12 74	9	19	22	24	11	0,062
12	M16x1,5	0101 12 75	9	19	22	24	11	0,060
12	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	0,075
14	M20x1,5	0101 14 80	10	24	24	25	11	0,085
15	M18x1,5	0101 15 78	9	22	24	25	10,5	0,072
16	M20x1,5	0101 16 80	10	24	27	27	12,5	0,104
16	M22x1,5	0101 16 82	10	27	27	27	12,5	0,113
18	M22x1,5	0101 18 82	10	27	30	29,5	12,5	0,131
18	M24x1,5	0101 18 83	11	30	30	29,5	13	0,142

0101 male stud coupling, BSP parallel or M5 thread

brass
with pre-assembled
nylon washer

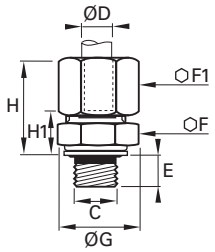


ØD	C		E	F	F1	H maxi	H1	kg
4	M5X0,8	0101 04 19	5	10	10	16,5	8	0,012
4	G1/8	0101 04 10	6,5	13	10	16,5	8	0,017
5	G1/8	0101 05 10	6,5	13	12	17,5	8,5	0,019
6	G1/8	0101 06 10	6,5	13	13	18	8,5	0,022
6	G1/4	0101 06 13	8	17	13	18	9,5	0,034
8	G1/8	0101 08 10	6,5	13	14	19	8,5	0,023
8	G1/4	0101 08 13	8	17	14	19,5	9	0,034
8	G3/8	0101 08 17	11	22	14	20	10,5	0,046
10	G1/4	0101 10 13	8	17	19	24	11	0,049
10	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
12	G3/8	0101 12 17	11	22	22	24	11,5	0,072
12	G1/2	0101 12 21	12	27	22	24	12	0,090
14	G3/8	0101 14 17	11	22	24	25	10,5	0,074
14	G1/2	0101 14 21	12	27	24	25	11	0,097
15	G3/8	0101 15 17	11	22	24	25	10,5	0,071
15	G1/2	0101 15 21	12	27	24	25	11	0,112
16	G3/8	0101 16 17	11	22	27	27	12	0,090
16	G1/2	0101 16 21	12	27	27	27	12,5	0,110
18	G1/2	0101 18 21	12	27	30	29,5	12,5	0,136
18	G3/4	0101 18 27	13	32	30	29,5	13	0,153
20	G3/4	0101 20 27	13	32	32	31	13	0,163
22	G3/4	0101 22 27	13	32	36	32	13	0,195
22	G1“	0101 22 34	15	41	36	31	13,5	0,260
25	G3/4	0101 25 27	13	36	41	35,5	13	0,262
25	G1“	0101 25 34	15	41	41	35,5	13	0,306
28	G1“	0101 28 34	15	41	42	35,5	13,5	0,398

Sealing washers 0602 are shown in chapter E.

0101...39 male stud coupling, BSP parallel thread

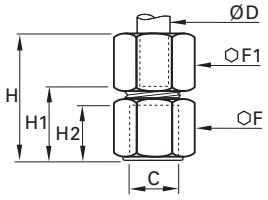
brass
with bi-material seal



ØD	C		E	F	F1	G	H	H1	kg
4	G1/8	0101 04 10 39	5,5	13	10	14	17,5	9	0,017
5	G1/8	0101 05 10 39	5,5	13	12	14	18,5	9,5	0,019
6	G1/8	0101 06 10 39	5,5	13	13	14	19	9,5	0,022
6	G1/4	0101 06 13 39	7	17	13	17	19	10,5	0,034
8	G1/8	0101 08 10 39	5,5	13	14	14	20	9,5	0,023
8	G1/4	0101 08 13 39	7	17	14	17	20,5	10	0,034
8	G3/8	0101 08 17 39	9,5	22	14	22	21,5	12	0,046
10	G1/4	0101 10 13 39	7	17	19	17	25	12	0,049
10	G3/8	0101 10 17 39	9,5	22	19	22	25,5	13	0,061
12	G1/4	0101 12 13 39	7	19	22	17	25	12	0,062
12	G3/8	0101 12 17 39	9,5	22	22	22	25	13	0,072
12	G1/2	0101 12 21 39	10,5	27	22	26	25	13,5	0,090
14	G3/8	0101 14 17 39	9,5	22	24	22	26,5	12	0,074
14	G1/2	0101 14 21 39	10,5	27	24	26	26,5	12,5	0,097
15	G3/8	0101 15 17 39	9,5	22	24	22	26,5	12	0,071
15	G1/2	0101 15 21 39	10,5	27	24	26	26,5	12,5	0,112
16	G3/8	0101 16 17 39	9,5	22	27	22	28,5	13,5	0,090
16	G1/2	0101 16 21 39	10,5	27	27	26	28,5	14	0,110
18	G1/2	0101 18 21 39	10,5	27	30	26	31	14	0,136
18	G3/4	0101 18 27 39	11,5	32	30	32	31	14,5	0,153
20	G3/4	0101 20 27 39	11,5	32	32	32	32,5	14,5	0,163
22	G3/4	0101 22 27 39	11,5	32	36	32	33,5	14,5	0,195
22	G1"	0101 22 34 39	13	41	36	39,5	33	15,5	0,260
25	G3/4	0101 25 27 39	11,5	36	41	32	37	14,5	0,262
25	G1"	0101 25 34 39	13	41	41	39,5	37,5	15,5	0,306
28	G1"	0101 28 34 39	13	41	42	39,5	37,5	15,5	0,398

0114 female stud coupling, BSP parallel thread

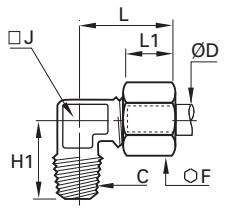
brass



ØD	C		F	F1	H maxi	H1	H2	kg
4	G1/8	0114 04 10	14	10	26	16,5	9,5	0,021
4	G1/4	0114 04 13	17	10	30	20,5	13,5	0,029
5	G1/8	0114 05 10	14	12	28	17	9,5	0,024
5	G1/4	0114 05 13	17	12	31	21	13,5	0,033
6	G1/8	0114 06 10	14	13	28	17	9,5	0,025
6	G1/4	0114 06 13	17	13	32	21	13,5	0,034
6	G3/8	0114 06 17	22	13	32	21,5	14	0,051
8	G1/8	0114 08 10	14	14	29	16,5	9,5	0,027
8	G1/4	0114 08 13	17	14	33	20,5	13,5	0,035
8	G3/8	0114 08 17	22	14	34	21	14	0,052
10	G1/4	0114 10 13	17	19	37	21,5	13,5	0,051
10	G3/8	0114 10 17	22	19	37	22	14	0,069
10	G1/2	0114 10 21	27	19	42	26,5	18,5	0,100
12	G1/4	0114 12 13	19	22	36	20,5	13,5	0,069
12	G3/8	0114 12 17	22	22	37	22	14	0,077
12	G1/2	0114 12 21	27	22	42	26,5	18,5	0,109
14	G1/4	0114 14 13	22	24	36	18,5	13,5	0,084
14	G3/8	0114 14 17	22	24	38	21	14	0,081
14	G1/2	0114 14 21	27	24	43	25,5	18,5	0,112
15	G3/8	0114 15 17	22	24	38	21	14	0,077
15	G1/2	0114 15 21	27	24	43	25,5	18,5	0,109
16	G1/4	0114 16 13	24	27	36	18	13,5	0,110
16	G3/8	0114 16 17	24	27	38	20,5	14	0,106
16	G1/2	0114 16 21	27	27	44	26	18,5	0,129
18	G3/8	0114 18 17	27	30	39	19,5	14	0,141
18	G1/2	0114 18 21	27	30	45	26	18,5	0,146
18	G3/4	0114 18 27	32	30	46	27	19,5	0,168
20	G3/8	0114 20 17	30	32	38	18	14	0,162
20	G1/2	0114 20 21	30	32	44,5	24	18,5	0,174
20	G3/4	0114 20 27	32	32	47	26,5	19,5	0,171
22	G3/4	0114 22 27	32	36	48	26,5	19,5	0,201
25	G3/4	0114 25 27	36	41	50,5	26	19,5	0,298

0109 male stud elbow, BSP taper thread

brass

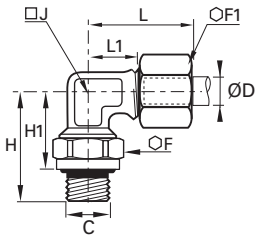


ØD	C		F	H1	J	L maxi	L1	kg
4	R1/8	0109 04 10	10	17	8	19	9,5	0,017
4	R1/4	0109 04 13	10	20	10	19	11	0,024
5	R1/8	0109 05 10	12	17,5	8	21	11	0,019
5	R1/4	0109 05 13	12	21,5	10	22	12	0,029
6	R1/8	0109 06 10	13	18	8	22	11	0,021
6	R1/4	0109 06 13	13	21,5	10	22	12	0,030
8	R1/8	0109 08 10	14	18,5	10	28	15	0,028
8	R1/4	0109 08 13	14	22	10	28	15	0,033
8	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
10	R3/8	0109 10 17	19	25,5	12	30	14,5	0,061
10	R1/2	0109 10 21	19	32	19	36	21	0,105
12	R1/4	0109 12 13	22	26	15	30	15	0,074
12	R3/8	0109 12 17	22	27	15	30	15	0,077
12	R1/2	0109 12 21	22	32	19	36	21	0,117
14	R3/8	0109 14 17	24	30	19	35	18	0,103
14	R1/2	0109 14 21	24	32	19	35	18	0,107
15	R3/8	0109 15 17	24	30	19	35	18	0,104
15	R1/2	0109 15 21	24	32	19	35	18	0,104
16	R3/8	0109 16 17	27	30	19	39	21	0,118
16	R1/2	0109 16 21	27	33,5	19	39	21	0,134
16	R3/4	0109 16 27	27	36,5	23	41	23	0,186
18	R1/2	0109 18 21	30	35,5	23	41	21,5	0,175
18	R3/4	0109 18 27	30	36,5	23	41	21,5	0,201
20	R1/2	0109 20 21	32	36,5	23	42	21,5	0,174
20	R3/4	0109 20 27	32	38	23	42	21,5	0,274
22	R3/4	0109 22 27	36	40	27	50	30	0,294
22	R1"	0109 22 34	36	44	27	50	30	0,322
25	R3/4	0109 25 27	41	43	27	54	30	0,330
25	R1"	0109 25 34	41	44	27	54	30	0,360
28	R3/4	0109 28 27	42	46	32	54	30	0,364
28	R1"	0109 28 34	42	48	32	54	30	0,380

Metric taper threads or Briggs NPT threads are available to special order, subject to minimum quantities.

0199 male stud orientable elbow, BSP parallel thread

brass
with integral 'O' ring seal

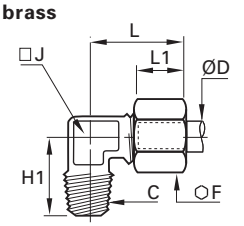


the body will orientate for positioning purposes

ØD	C		F	G	F1	H	H1 mini	H1 maxi	J	L	L1	kg
4	G1/8	0199 04 10	14	15	10	23	16	17	8	19	9,5	0,017
4	G1/4	0199 04 13	19	21	10	30,5	22	23,5	10	19	11	0,024
6	G1/8	0199 06 10	14	15	13	23	16	17	8	22	11	0,021
6	G1/4	0199 06 13	19	21	13	30,5	22	23,5	10	22	12	0,030
8	G1/8	0199 08 10	14	15	14	24	17	18	10	28	15	0,028
8	G1/4	0199 08 13	19	21	14	30,5	22	23,5	10	28	15	0,033
8	G3/8	0199 08 17	22	24	14	33,5	24	25,5	12	28	15	0,044
10	G1/4	0199 10 13	19	21	19	31	22,5	24	12	30	14,5	0,052
10	G3/8	0199 10 17	22	24	19	33,5	24	25,5	12	30	14,5	0,061
10	G1/2	0199 10 21	27	29,5	19	40	29,5	31	19	37	22	0,105
14	G3/8	0199 14 17	22	24	24	35,5	26	27,5	19	35	18	0,103
14	G1/2	0199 14 21	27	29,5	24	40	29,5	31	19	35	18	0,107
18	G1/2	0199 18 21	27	29,5	30	40	29	30,5	23	41	21,5	0,175
18	G3/4	0199 18 27	32	35	30	43,5	32	33,5	23	41	21,5	0,201
22	G3/4	0199 22 27	32	35	36	45,5	34	36	32	51	31	0,294
22	G1"	0199 22 34	41	45	36	54	40,5	43	32	51	31	0,322
28	G1"	0199 28 34	41	45	42	54	40,5	43	32	54	30	0,380

0109 male stud elbow, NPT thread

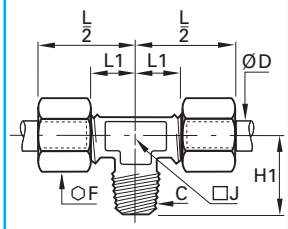
brass



ØD	C		F	H1	J	L maxi	L1	kg
6	1/8	0109 06 11	13	18	8	22	11	0,021
6	1/4	0109 06 14	13	21,5	10	22	12	0,030
8	1/8	0109 08 11	14	18,5	10	28	15	0,028
8	1/4	0109 08 14	14	22	10	28	15	0,033
10	1/4	0109 10 14	19	25	12	30	14,5	0,052

0108 male stud branch tee, BSP taper thread

brass

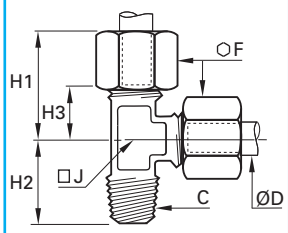


ØD	C		F	H1	J	L/2	L1	kg
4	R1/8	0108 04 10	10	17	8	19	9,5	0,026
5	R1/8	0108 05 10	12	17,5	8	21	11	0,031
6	R1/8	0108 06 10	13	18	8	22	11	0,033
6	R1/4	0108 06 13	13	21,5	10	27	16	0,050
8	R1/8	0108 08 10	14	18,5	10	28	15	0,046
8	R1/4	0108 08 13	14	22	10	28	15	0,049
8	R3/8	0108 08 17	14	24	12	28	15	0,063
10	R1/4	0108 10 13	19	25	12	30	14,5	0,085
10	R3/8	0108 10 17	19	25,5	12	30	14,5	0,093
12	R1/4	0108 12 13	22	26	15	30	15	0,115
12	R3/8	0108 12 17	22	27	15	30	15	0,118
14	R3/8	0108 14 17	24	30	19	35	18	0,156
14	R1/2	0108 14 21	24	32	19	35	18	0,193
15	R3/8	0108 15 17	24	30	19	35	18	0,145
15	R1/2	0108 15 21	24	32	19	35	18	0,156
16	R3/8	0108 16 17	27	30	19	39	21	0,190
16	R1/2	0108 16 21	27	33,5	19	39	21	0,200
18	R1/2	0108 18 21	30	35,5	23	41	21,5	0,264
18	R3/4	0108 18 27	30	36,5	23	41	21,5	0,270
20	R3/4	0108 20 27	32	38	23	42	21,5	0,280
22	R3/4	0108 22 27	36	40	27	50	29	0,440
22	R1"	0108 22 34	36	44	27	50	29	0,477

Metric taper threads or Briggs NTP threads are available to special order, subject to minimum quantities.

0103 male stud run tee, BSP taper thread

brass

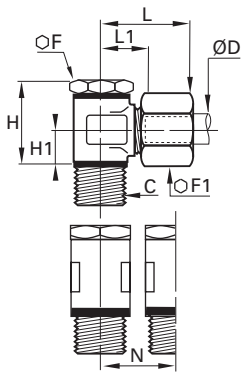


ØD	C		F	H1 maxi	H2	H3	J	kg
4	R1/8	0103 04 10	10	19	17	9,5	8	0,026
5	R1/8	0103 05 10	12	21	17,5	11	8	0,031
6	R1/8	0103 06 10	13	22	18	11	8	0,031
6	R1/4	0103 06 13	13	27	21,5	16	10	0,049
8	R1/8	0103 08 10	14	28	18,5	15	10	0,044
8	R1/4	0103 08 13	14	28	22	15	10	0,050
8	R3/8	0103 08 17	14	28	24	15	12	0,062
10	R1/4	0103 10 13	19	30	25	14,5	12	0,085
10	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	0,113
12	R3/8	0103 12 17	22	30	27	15	15	0,120
14	R3/8	0103 14 17	24	35	30	18	19	0,156
14	R1/2	0103 14 21	24	35	32	18	19	0,166
15	R3/8	0103 15 17	24	35	30	18	19	0,141
15	R1/2	0103 15 21	24	35	32	18	19	0,151
16	R3/8	0103 16 17	27	39	30	21	19	0,189
16	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	0,263
18	R3/4	0103 18 27	30	41	36,5	21,5	23	0,281
20	R3/4	0103 20 27	32	42	38	21,5	23	0,295
22	R3/4	0103 22 27	36	50	40	29	27	0,428

Metric taper threads or Briggs NPT threads are available to special order, subject to minimum quantities.

0118 single banjo, BSP parallel thread

brass
with pre-assembled nylon washer

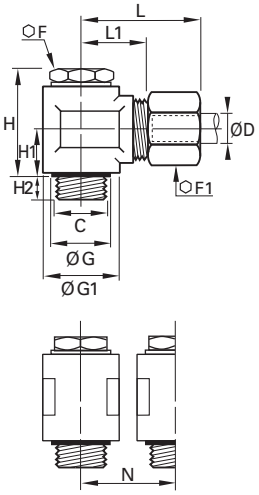


ØD	C		F	F1	H	H1	L maxi	L1	N mini	kg
4	G1/8	0118 04 10	14	10	24	9,5	24	14,5	17,5	0,039
5	G1/8	0118 05 10	14	12	24	9,5	25	14,5	17,5	0,042
5	G1/4	0118 05 13	17	12	25	10	26	16	21	0,056
6	G1/8	0118 06 10	14	13	24	9,5	25	14,5	17,5	0,043
6	G1/4	0118 06 13	17	13	25	10	26	16	21	0,056
8	G1/8	0118 08 10	14	14	24	9,5	28	15,5	17,5	0,054
8	G1/4	0118 08 13	17	14	25	10	28	15,5	21	0,057
8	G3/8	0118 08 17	22	14	32	13	30	18	26,5	0,112
10	G1/4	0118 10 13	17	19	31	13	34	19	23	0,117
10	G3/8	0118 10 17	22	19	32	13	34	19	26,5	0,126
12	G1/4	0118 12 13	17	22	34	14,5	34	19	23	0,128
12	G3/8	0118 12 17	22	22	35	14,5	34	19	26,5	0,134
14	G1/4	0118 14 13	17	24	37	16	37	20,5	28	0,188
14	G3/8	0118 14 17	22	24	38	16	37	20,5	28	0,194
14	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	0,188
15	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	0,226
18	G1/2	0118 18 21	27	30	46	19,5	43	24,5	36	0,375
20	G3/4	0118 20 27	32	32	49	20	44	24,5	39	0,383
22	G3/4	0118 22 27	32	36	53	22	45	24,5	39	0,455

Subject to minimum quantities these products can be made with a metric thread.

0118...39 single banjo, BSP parallel thread

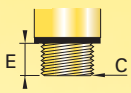
brass
with bi-material seal



ØD	C		F	F1	G	G1	H	H1	H2	L	L1	N	kg
4	G1/8	0118 04 10 39	14	10	14	14	23	9,5	6,5	24	14,5	17,5	0,042
5	G1/8	0118 05 10 39	14	12	14	14	23	9,5	6,5	25	14,5	17,5	0,044
5	G1/4	0118 05 13 39	17	12	17	17	24	10	8	26	16	21	0,060
6	G1/8	0118 06 10 39	14	13	14	14	23	9,5	6,5	25	14,5	17,5	0,045
6	G1/4	0118 06 13 39	17	13	17	17	24	10	8	26	16	21	0,060
8	G1/8	0118 08 10 39	14	14	14	17	23	9,5	6,5	28	15,5	17,5	0,057
8	G1/4	0118 08 13 39	17	14	17	17	24	10	8	28	15,5	21	0,062
8	G3/8	0118 08 17 39	22	14	22	22	31,5	13,5	7,5	30	18	26,5	0,115
10	G1/4	0118 10 13 39	17	19	17	22	30	13	7,5	34	19	23	0,120
10	G3/8	0118 10 17 39	22	19	22	22	31,5	13,5	7,5	34	19	26,5	0,129
12	G1/4	0118 12 13 39	17	22	17	22	33	14,5	8	34	19	23	0,130
12	G3/8	0118 12 17 39	22	22	22	22	34,5	15	10,5	34	19	26,5	0,136
14	G1/4	0118 14 13 39	17	24	17	27	36	16	8	37	20,5	28	0,191
14	G3/8	0118 14 17 39	22	24	22	27	37,5	16,5	8,5	37	20,5	28	0,198
14	G1/2	0118 14 21 39	27	24	26	27	39	16,5	10	38	20,5	32,5	0,212
15	G3/8	0118 15 17 39	22	24	22	27	37,5	16,5	8,5	37	20,5	28	0,191
15	G1/2	0118 15 21 39	27	24	26	27	40	16,5	10	38	20,5	32,5	0,201
16	G1/2	0118 16 21 39	27	27	26	27	40	16,5	10	38	21	32,5	0,230
18	G1/2	0118 18 21 39	27	30	26	34	47	20	9	43	24,5	36	0,379
20	G3/4	0118 20 27 39	32	32	32	34	50	20,5	13	44	24,5	39	0,386
22	G3/4	0118 22 27 39	32	36	32	34	54	22,5	12	45	24,5	39	0,455

Refer to page E20 for details of sealing washer 0602 and bi-material seal 0139 as used on banjos 0118.

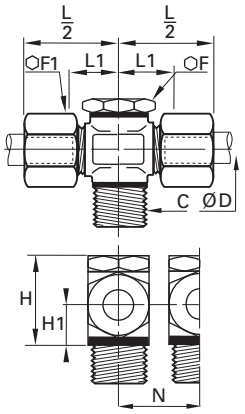
Length of parallel threads for part nos. 0118



C	G1/8	G1/4	G3/8	G1/2	G3/4
E	4,5	6	8	9	10

0119 double banjo, BSP parallel thread

brass
with pre-assembled nylon washer

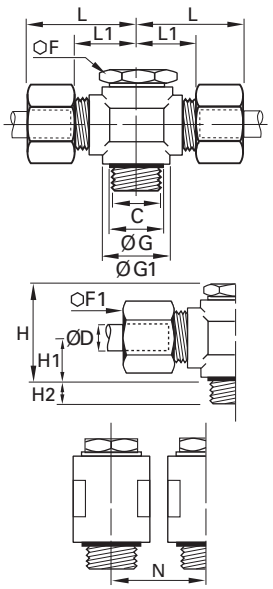


ØD	C		F	F1	H	H1	L/2	L1	N mini	kg
4	G1/8	0119 04 10	14	10	24	9,5	24	14,5	17,5	0,048
6	G1/8	0119 06 10	14	13	24	9,5	25	14,5	17,5	0,055
6	G1/4	0119 06 13	17	13	25	10	26,5	16	21	0,071
8	G1/8	0119 08 10	14	14	24	9,5	28	15,5	17,5	0,071
8	G1/4	0119 08 13	17	14	25	10	28	15,5	21	0,074
8	G3/8	0119 08 17	22	14	32	13	30,5	18	26,5	0,139
10	G1/4	0119 10 13	17	19	31	13	34	19	23	0,156
10	G3/8	0119 10 17	22	19	32	13	34	19	26,5	0,171
12	G1/4	0119 12 13	17	22	34	14,5	34	19	23	0,156
12	G3/8	0119 12 17	22	22	35	14,5	34	19	26,5	0,181
14	G1/4	0119 14 13	17	24	37	16	37,5	20,5	28	0,248
14	G3/8	0119 14 17	22	24	38	16	37,5	20,5	28	0,243
14	G1/2	0119 14 21	27	24	40	16	38	20,5	32,5	0,257
16	G1/2	0119 16 21	27	27	42	16	38,5	21	32,5	0,295

Subject to minimum quantities these products can be made with a metric thread.

0119...39 double banjo, BSP parallel thread

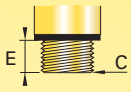
brass
with bi-material seal



ØD	C		F	F1	G	G1	H	H1	H2	L	L1	N	kg
4	G1/8	0119 04 10 39	14	10	14	14	23	9,5	6,5	24	14,5	17,5	0,049
5	G1/8	0119 05 10 39	14	12	14	14	23	9,5	6,5	25	14,5	17,5	0,049
5	G1/4	0119 05 13 39	17	12	17	17	24	10	8	26	16	21	0,051
6	G1/8	0119 06 10 39	14	13	14	14	23	9,5	6,5	25	14,5	17,5	0,055
6	G1/4	0119 06 13 39	17	13	17	17	24	10	8	26	16	21	0,071
8	G1/8	0119 08 10 39	14	14	14	17	23	9,5	6,5	28	15,5	17,5	0,071
8	G1/4	0119 08 13 39	17	14	17	17	24	10	8	28	15,5	21	0,074
8	G3/8	0119 08 17 39	22	14	22	22	31,5	13,5	7,5	30	18	26,5	0,139
10	G1/4	0119 10 13 39	17	19	17	22	30	13	7,5	34	19	23	0,156
10	G3/8	0119 10 17 39	22	19	22	22	31,5	13,5	7,5	34	19	26,5	0,171
12	G1/4	0119 12 13 39	17	22	17	22	33	14,5	8	34	19	23	0,156
12	G3/8	0119 12 17 39	22	22	22	22	34,5	15	10,5	34	19	26,5	0,181
14	G1/4	0119 14 13 39	17	24	17	27	36	16	8	37	20,5	28	0,248
14	G3/8	0119 14 17 39	22	24	22	27	37,5	16,5	8,5	37	20,5	28	0,243
14	G1/2	0119 14 21 39	27	24	26	27	39	16,5	10	38	20,5	32,5	0,257
15	G3/8	0119 15 17 39	22	24	22	27	37,5	16,5	8,5	37	20,5	28	0,270
15	G1/2	0119 15 21 39	27	24	26	27	40	16,5	10	38	20,5	32,5	0,278
16	G1/2	0119 16 21 39	27	27	26	27	40	16,5	10	38	21	32,5	0,295
18	G1/2	0119 18 21 39	27	30	26	34	47	20	9	43	24,5	36	0,312
20	G3/4	0119 20 27 39	32	32	32	34	50	20,5	13	44	24,5	39	0,320
22	G3/4	0119 22 27 39	32	36	32	34	54	22,5	12	45	24,5	39	0,330

Refer to page E20 for details of sealing washer 0602 and bi-material seal 0139 as used on banjos 0119.

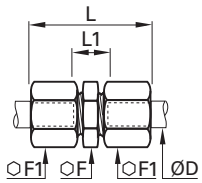
Length of parallel threads for part numbers 0119.



C	G1/8	G1/4	G3/8	G1/2	G3/4
E	4,5	6	8	9	10

0106 equal straight coupling

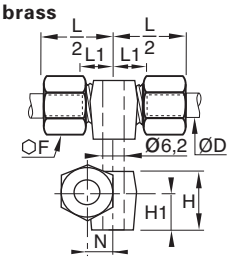
brass



ØD		F	F1	L maxi	L1	kg
4	0106 04 00	10	10	28	10	0,017
5	0106 05 00	11	12	31	11	0,024
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	0,096
15	0106 15 00	22	24	45	11	0,104
16	0106 16 00	24	27	48	13	0,142
18	0106 18 00	27	30	53	14	0,191
20	0106 20 00	30	32	56	14	0,216
22	0106 22 00	32	36	60	14	0,280
25	0106 25 00	36	41	64	14	0,398
28	0106 28 00	42	41	64	14	0,400

0113 equal straight coupling with mounting boss

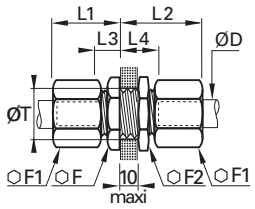
brass



ØD		F	H	H1	L/2	L1	N	kg
4	0113 04 00	10	10,5	7	19	9,5	6	0,022
6	0113 06 00	13	13	9	20,5	10	7	0,033
8	0113 08 00	14	14,5	9,5	23,5	11	8	0,040
10	0113 10 00	19	19,5	12,5	26	11	9	0,081
12	0113 12 00	22	22	14	26,5	12	11	0,109
14	0113 14 00	24	25	16	28	11	12	0,122

0116 equal bulkhead coupling

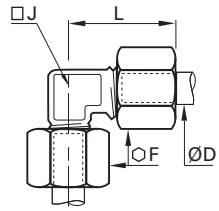
brass



ØD		F	F1	F2	L1 maxi	L2 maxi	L3	L4	T mini	kg
4	0116 04 00	10	10	13	17	27	7	17	8,3	0,024
5	0116 05 00	13	12	14	18	28	7,5	17,5	10,3	0,035
6	0116 06 00	13	13	14	19	28	7,5	17,5	10,3	0,037
8	0116 08 00	14	14	17	20	29	7	17	12,3	0,047
10	0116 10 00	19	19	22	25	33	9	19	16,5	0,101
12	0116 12 00	22	22	22	25	33	9	19	18,5	0,125
14	0116 14 00	24	24	24	25	35	8	18	20,5	0,143
15	0116 15 00	24	24	24	25	35	8	18	20,5	0,133
16	0116 16 00	27	27	27	28	36	9,5	19,5	22,5	0,191
18	0116 18 00	27	30	30	30	40	10,5	20,5	24,5	0,244
20	0116 20 00	32	30	32	31	41	11	21	27,5	0,268
22	0116 22 00	36	36	36	32	42	11	21	30,5	0,372
25	0116 25 00	36	41	38	36	46	11	21	33,5	0,475

0102 equal elbow

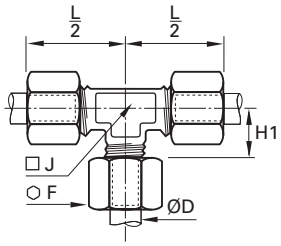
brass



ØD		F	J	L maxi	kg
4	0102 04 00	10	5	19	0,017
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	0,072
12	0102 12 00	22	15	30	0,097
14	0102 14 00	24	19	35	0,131
15	0102 15 00	24	19	35	0,119
16	0102 16 00	27	19	39	0,164
18	0102 18 00	30	23	41	0,230
20	0102 20 00	32	23	42	0,236
22	0102 22 00	36	27	50	0,376
25	0102 25 00	41	27	54	0,464
28	0102 28 00	42	32	54,5	0,460

0104 equal tee

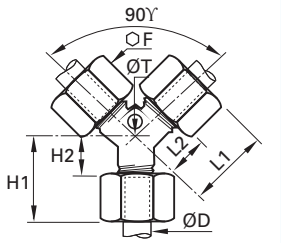
brass



ØD		F	H1	J	L/2	kg
4	0104 04 00	10	9,5	8	19	0,029
5	0104 05 00	12	11	8	21	0,035
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	0,103
12	0104 12 00	22	15	15	30	0,139
14	0104 14 00	24	18	19	35	0,188
15	0104 15 00	24	18	19	35	0,168
16	0104 16 00	27	21	19	39	0,236
18	0104 18 00	30	21,5	23	41	0,322
20	0104 20 00	32	21,5	23	42	0,324
22	0104 22 00	36	29	27	50	0,518
25	0104 25 00	41	29	27	54	0,646
28	0104 28 00	42	30	32	55	0,650

0142 equal Y piece

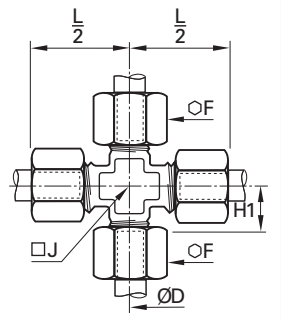
brass



ØD		F	H1 maxi	H2	L1 maxi	L2	T	kg
4	0142 04 00	10	16,5	7	26,5	17	4,2	0,032
5	0142 05 00	12	18,5	8,5	27	17	4,2	0,046
6	0142 06 00	13	19,5	8,5	28	17	4,2	0,050
8	0142 08 00	14	21	8	30	17	6,2	0,062
10	0142 10 00	19	24,5	9	37,5	22	6,2	0,130
12	0142 12 00	22	26	11	38	23	6,2	0,171
14	0142 14 00	24	28	11	41,5	24,5	6,2	0,199
15	0142 15 00	24	28	11	41,5	24,5	6,2	0,177
16	0142 16 00	27	30	12	43	25	6,2	0,257
18	0142 18 00	30	31,5	12	50,5	31	10,2	0,350
20	0142 20 00	32	33,5	13	51,5	31	10,2	0,410
22	0142 22 00	36	34	13	53	32	10,2	0,543
25	0142 25 00	41	39	14	59	34	10,2	0,728

0107 equal cross

brass



ØD		F	H1	J	L/2	kg
4	0107 04 00	10	9,5	8	19	0,037
5	0107 05 00	12	11	8	21	0,048
6	0107 06 00	13	11	8	22	0,053
8	0107 08 00	14	15	11	28	0,074
10	0107 10 00	19	14,5	14	30	0,143
12	0107 12 00	22	15	15	35	0,185
14	0107 14 00	24	18	20	35	0,241
15	0107 15 00	24	18	20	35	0,223
16	0107 16 00	27	21	20	39	0,311
18	0107 18 00	30	21,5	25	41	0,431
20	0107 20 00	32	21,5	25	42	0,442
22	0107 22 00	36	29	27	50	0,682
25	0107 25 00	41	29	27	50	0,811

complementary fittings
the Legris reduction assembly

This patented accessory enables a smaller tube size to be used with the standard Legris coupling designed for larger sized tube.
Tube may be copper, brass, nylon,
thin wall steel (wall thickness ≤ 1mm).
For example the following can be connected to a 14 mm equal cross connector :

- a 4 mm nylon tube
- a 8 mm copper tube
- a 12 mm brass tube
- a 14 mm braided PVC hose

The Legris reduction assembly

- allows a lower stockholding of fittings (57 alternative reductions are available).
- enables less complicated system designs.
- allows connection of several tube diameters within one fitting.

Legris reducers may be used with the 0122 tailpiece adaptor for rubber hose, the 0165 tailpiece adaptor for nylon hose and blanking plug 0126.

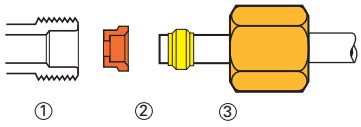
The reduction assembly comprises three components.

① the reduction piece,

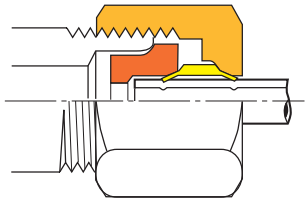
which fits inside the fitting body.

② the universal compression olive which fits on the end of the tube and is inserted between the reduction piece and the sleeve nut.

③ the brass sleeve nut



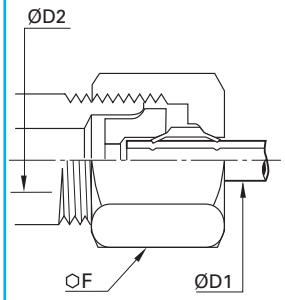
which is slightly longer than the standard sleeve nut in order to accommodate the extended length of the reduction piece.



fully assembled unit

0166 reduction assembly

brass



ØD1 = tube to be fitted
ØD2 = for a x mm fitting

ØD1	ØD2		F	kg
4	5	0166 04 05	13	0,011
5	6	0166 05 06	13	0,011
4	6	0166 04 06	13	0,011
6	8	0166 06 08	14	0,012
5	8	0166 05 08	14	0,013
4	8	0166 04 08	14	0,014
8	10	0166 08 10	19	0,027
6	10	0166 06 10	19	0,030
5	10	0166 05 10	19	0,030
4	10	0166 04 10	19	0,031
10	12	0166 10 12	22	0,037
8	12	0166 08 12	22	0,040
6	12	0166 06 12	22	0,043
5	12	0166 05 12	22	0,044
4	12	0166 04 12	22	0,045
12	14	0166 12 14	24	0,043
10	14	0166 10 14	24	0,046
8	14	0166 08 14	24	0,051
6	14	0166 06 14	24	0,051
5	14	0166 05 14	24	0,053
4	14	0166 04 14	24	0,054
12	15	0166 12 15	24	0,045
10	15	0166 10 15	24	0,048
8	15	0166 08 15	24	0,053
6	15	0166 06 15	24	0,055
4	15	0166 04 15	24	0,058
14	16	0166 14 16	27	0,060
12	16	0166 12 16	27	0,072
10	16	0166 10 16	27	0,069
8	16	0166 08 16	27	0,076
6	16	0166 06 16	27	0,078
5	16	0166 05 16	27	0,077

ØD1	ØD2		F	kg
16	18	0166 16 18	30	0,078
15	18	0166 15 18	30	0,080
14	18	0166 14 18	30	0,084
12	18	0166 12 18	30	0,090
10	18	0166 10 18	30	0,097
8	18	0166 08 18	30	0,099
18	20	0166 18 20	32	0,080
16	20	0166 16 20	32	0,089
14	20	0166 14 20	32	0,097
12	20	0166 12 20	32	0,102
10	20	0166 10 20	32	0,104
18	22	0166 18 22	36	0,120
16	22	0166 16 22	36	0,122
15	22	0166 15 22	36	0,130
14	22	0166 14 22	36	0,132
12	22	0166 12 22	36	0,135
10	22	0166 10 22	36	0,145
20	25	0166 20 25	41	0,166
18	25	0166 18 25	41	0,178
16	25	0166 16 25	41	0,174
14	25	0166 14 25	41	0,190
12	25	0166 12 25	41	0,195
10	25	0166 10 25	41	0,205
22	28	0166 22 28	42	0,169
18	28	0166 18 28	42	0,180

Each of the above part numbers comprises :
- a reduction piece
- an olive : ref 0124
- a sleeve nut : ref 0110

brass olives and sleeve nuts

The table below illustrates the wide number of possible combinations available when using the Legris brass compression range. In addition the advantages of the **Legris** reduction assembly are shown on page D17.

brass fitting body					
0110 brass		0110... 60 brass		0110... 40 steel	0110... 70 plastic
0124 brass	0111 brass BNA	0124 brass	0111 brass BNA	0124... 40 steel	
brass tube, plastic tube, copper tube and barbed fitting 0122 and 0165	copper tube	soft copper tube subjected to vibration and lateral forces	half hard copper tube subjected to vibration and lateral forces	steel tube : low and medium pressure hydraulics	plastic tubes

0124

This type of brass olive is supplied as standard and is for use with sleeve nut **0110.**
This 'nut and olive' assembly is suitable for connecting copper, brass, thin walled steel, and plastic tube as well as **0122** and **0165** tube adaptors.

0124... 40

This steel olive is for use with hydraulic fluids. It is used with the sleeve nut reference **0110...suffix 40.**
This 'nut and olive' assembly is suitable for medium pressure hydraulics (see page D4)

0111

It is assembled with a sleeve nut **0110** and is suitable for copper tube.

0110/0110... 40

Brass nut **0110** is used with brass olive **0124**, or **0111** or blanking plug **0126**.
Steel nut **0110...suffix 40** is used with steel olive **0124....suffix 40.**
It is recommended to lubricate threads and components.

0110... 60

The use of this nut improves the grip on soft copper tube and on all fittings which may be subjected to relatively large vibrations or abnormal lateral forces.
Nut **0110...suffix 60** should be used with olives **0124 or 0111.**

0110... 70

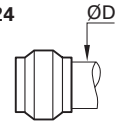
This product acts as both nut and olive when used with soft plastic tubing
1 - manually tighten the **0110...70** several times on to the fitting
2 - push home the plastic tube through the nut/olive
3 - manually fully tighten the plastic nut/olive

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

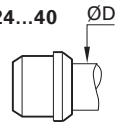
0124, 0124 suffix 40, 0111 olives



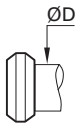
brass olive 0124



passivated steel olive 0124...40



brass olive 0111

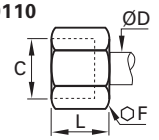


ØD		kg		kg		kg
4	0124 04 00	0,001	0124 04 00 40	0,001	0111 04 00	0,001
5	0124 05 00	0,001	0124 05 00 40	0,001	0111 05 00	0,001
6	0124 06 00	0,001	0124 06 00 40	0,001	0111 06 00	0,001
8	0124 08 00	0,002	0124 08 00 40	0,002	0111 08 00	0,002
10	0124 10 00	0,003	0124 10 00 40	0,003	0111 10 00	0,002
12	0124 12 00	0,004	0124 12 00 40	0,004	0111 12 00	0,003
14	0124 14 00	0,004	0124 14 00 40	0,005	0111 14 00	0,003
15	0124 15 00	0,004	0124 15 00 40	0,005	0111 15 00	0,003
16	0124 16 00	0,006	0124 16 00 40	0,006	0111 16 00	0,004
18	0124 18 00	0,007	0124 18 00 40	0,008		
20	0124 20 00	0,009	0124 20 00 40	0,008		
22	0124 22 00	0,012	0124 22 00 40	0,010		
25	0124 25 00	0,017	0124 25 00 40	0,015		
28	0124 28 00	0,017				

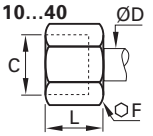
0110, 0110 suffix 40, 0110 suffix 60 nuts



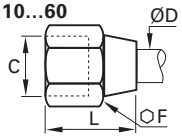
brass nut 0110



passivated steel nut 0110...40



brass nut 0110...60

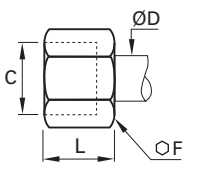


ØD	C		kg		kg		kg
4	M8x1	0110 04 00	0,005	0110 04 00 40	0,004	0110 04 00 60	0,006
5	M10x1	0110 05 00	0,006	0110 05 00 40	0,006	0110 05 00 60	0,009
6	M10x1	0110 06 00	0,008	0110 06 00 40	0,008	0110 06 00 60	0,011
8	M12x1	0110 08 00	0,008	0110 08 00 40	0,009	0110 08 00 60	0,012
10	M16x1,5	0110 10 00	0,019	0110 10 00 40	0,019	0110 10 00 60	0,027
12	M18x1,5	0110 12 00	0,026	0110 12 00 40	0,027	0110 12 00 60	0,041
14	M20x1,5	0110 14 00	0,029	0110 14 00 40	0,030	0110 14 00 60	0,051
15	M20x1,5	0110 15 00	0,028	0110 15 00 40	0,030	0110 15 00 60	0,050
16	M22x1,5	0110 16 00	0,043	0110 16 00 40	0,043	0110 16 00 60	0,072
18	M24x1,5	0110 18 00	0,059	0110 18 00 40	0,057	0110 18 00 60	0,097
20	M27x1,5	0110 20 00	0,057	0110 20 00 40	0,062	0110 20 00 60	0,102
22	M30x1,5	0110 22 00	0,079	0110 22 00 40	0,084	0110 22 00 60	0,129
25	M33x1,5	0110 25 00	0,121	0110 25 00 40	0,130	0110 25 00 60	0,194
28	M36x1,5	0110 28 00	0,109				

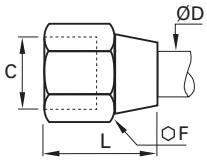
Technical specification of sleeve nuts

tightening torque :

m.daN = tightening torque for nut 0110 and olive 0124 on copper, brass or steel tube



nut 0110 and 0110...40

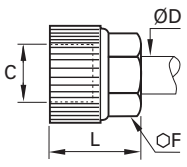


nut 0110...60

ØD	F 0110	L 0110	F 0110...60	L 0110...60	m.daN torque copper or brass	F 0110...40	L 0110...40	m.daN torque steel
4	10	11	11	14,5	0,7	10	11	1,5
5	12	11	13	17	0,7	12	11,5	1,5
6	13	11	13	17,5	1,5	13	12	2,5
8	14	13	16	20	1,5	14	13,5	2,5
10	19	15	20	23	1,8	19	16	3
12	22	15	22	25	3	22	16,5	4,5
14	24	15	24	30	3,5	24	17	5,5
15	24	15	24	30	4	24	17	6
16	27	17	27	32	5	27	18	7
18	30	18	30	35	6	30	19	9
20	32	18	32	35	6	32	20,5	10
22	36	19	36	36	7	36	21,5	12
25	41	21	41	40	8	41	24	13
28	42	21			9			

0110 suffix 70 nut-olive

engineering plastic

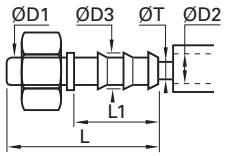


ØD	C		F	L	kg
4	M8x1	0110 04 00 70	8	13	0,001
6	M10x1	0110 06 00 70	11	15	0,002
8	M12x1	0110 08 00 70	13	16	0,002
10	M16x1,5	0110 10 00 70	17	19	0,004
12	M18x1,5	0110 12 00 70	19	19	0,005
14	M20x1,5	0110 14 00 70	22	20	0,007
16	M22x1,5	0110 16 00 70	24	21	0,009

NB. plastic nut-olives should not be used on metal tubes.

0122 tailpiece adaptor for rubber hose

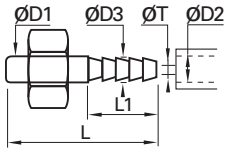
brass



Ø D1	Ø D2		Ø D3	L	L1	ØT mini	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	0,004
6	4	0122 06 04	6	37,5	22,5	3	0,005
6	7	0122 06 07	9	37,5	22,5	6	0,007
8	6	0122 08 06	8	40	22,5	5	0,007
8	7	0122 08 07	9	40	22,5	6	0,008
8	10	0122 08 10	12,5	40	22,5	9	0,012
10	7	0122 10 07	9	43	22,5	6	0,010
10	10	0122 10 10	12,5	43	22,5	9	0,013
12	10	0122 12 10	12,5	43	22,5	9	0,013
12	13	0122 12 13	15	50	29,5	12	0,018
14	13	0122 14 13	15	52	29,5	12	0,018
14	16	0122 14 16	18,5	60,5	38	15	0,031
15	13	0122 15 13	15	52	29,5	12	0,020
15	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	16	0122 16 16	18,5	62	38	15	0,029
18	16	0122 18 16	18,5	62	38	15	0,032
18	19	0122 18 19	21,5	62	38	18	0,039
20	16	0122 20 16	18,5	64	38	15	0,036
20	19	0122 20 19	21,5	64	38	18	0,039
22	19	0122 22 19	21,5	64	38	18	0,040
25	19	0122 25 19	21,5	70	38	18	0,050
25	25	0122 25 25	27,5	70	38	24	0,063
28	25	0122 28 25	27,5	70	38	24	0,088

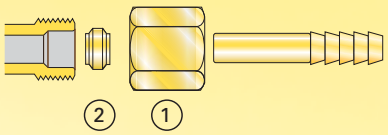
0165 tailpiece adaptor for plastic hose

brass



Ø D1	Ø D2		Ø D3	L	L1	ØT mini	kg
4	4	0165 04 06	4,3	30	15	2	0,003
5	4	0165 05 06	4,3	30	15	2	0,003
6	4	0165 06 06	4,3	30	15	2	0,003
6	6	0165 06 08	6,4	30	15	4	0,004
6	8	0165 06 10	8,4	30	15	4	0,005
8	6	0165 08 08	6,4	32,5	15	4	0,006
8	8	0165 08 10	8,4	32,5	15	6	0,006
8	10	0165 08 12	10,7	37,5	20	6	0,009
10	8	0165 10 10	8,4	35,5	15	6	0,008
10	10	0165 10 12	10,7	40,5	20	8	0,010
10	12	0165 10 14	12,7	40,5	20	8	0,012
12	10	0165 12 12	10,7	40,5	20	8	0,012
12	12	0165 12 14	12,7	40,5	20	10	0,012
14	12	0165 14 14	12,7	42,5	20	10	0,014
15	13	0165 15 16	13,7	42,5	20	11	0,015
16	13	0165 16 16	13,7	44	20	11	0,018

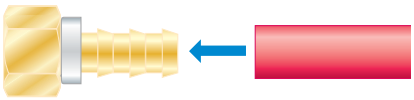
① + ② + adaptor
nut + olive + adaptor



0122 and **0165** tailpiece adaptors are used in place of tube. They are therefore inserted into the fittings and fixed with the nut and olive supplied with the fitting.

quick-acting barbed fittings for self-fastening tube

Exclusively designed to be connected to self-fastening tubing (see Tubes and Hoses section), Legris quick-acting barbed fittings are perfectly adapted to modern requirements of industry, such as automation. Connection is quick and easy :
- fully compatible with Legris brass compression fittings
- no grease or oil is needed to lubricate the tube and no preparation time is required. Safety for both installer and user is safeguarded since the tube when pushed onto the fitting butts against and beneath the grey collar visually confirming correct connection.
- to disconnect, cut the tube with a knife on the barbed side of the fitting.



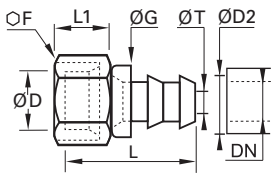
correct connection =
the tube is pushed on to the fitting to butt against and beneath the collar

Selection of self-fastening tube is done by DN:

quick-acting barbed fitting	DN	self-fastening tube
0132 10 **56**	**1/4**	10.. H **56** ..

0132 quick-acting barbed fitting with brass compression fitting

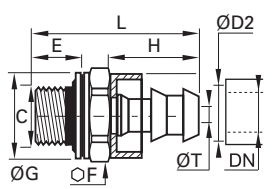
brass body
polymer collar



ØD	DN	ØD1		ØD2	F	G	L	L1	T	kg
6	**1/4**	6,3	**0132 06 56**	13	12	16,5	32,5	12,5	4,8	0,012
8	**1/4**	6,3	**0132 08 56**	13	14	16,5	29,5	11,5	4,8	0,014
10	**1/4**	6,3	**0132 10 56**	13	19	16,5	30	14	4,8	0,027
10	**3/8**	9,5	**0132 10 60**	16	19	19,5	34	14	7,5	0,035
14	**3/8**	9,5	**0132 14 60**	16	24	19,5	35,5	15	7,5	0,049
14	**1/2**	12,7	**0132 14 62**	19	24	23,5	39,5	15	10	0,054
18	**1/2**	12,7	**0132 18 62**	19	30	23,5	41,5	17	10	0,092
18	**5/8**	15,9	**0132 18 66**	23	30	27	50	17	13,5	0,090
22	**3/4**	19,1	**0132 22 69**	27	36	30,5	56,5	17	16	0,128

0133...39 quick-acting barbed fitting with male BSP parallel thread

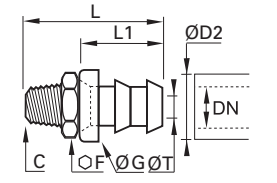
brass body
with bi-material seal
polymer collar



C	DN	ØD1		ØD2	E	F	G	H	L	T	kg
G1/8	**1/4**	6,3	**0133 56 10 39**	13	5,5	13	14	20	31,5	4,8	0,012
G1/4	**1/4**	6,3	**0133 56 13 39**	13	7	17	17	20	33,5	4,8	0,020
G1/4	**3/8**	9,5	**0133 60 13 39**	16	7	17	17	24	37,5	7,5	0,021
G3/8	**3/8**	9,5	**0133 60 17 39**	16	9,5	22	22	24	42,5	7,5	0,035
G3/8	**1/2**	12,7	**0133 62 17 39**	19	9,5	22	22	28	46,5	10	0,038
G1/2	**1/2**	12,7	**0133 62 21 39**	19	10,5	27	26	28	48,5	10	0,064
G1/2	**5/8**	15,9	**0133 66 21 39**	23	10,5	27	26	36,5	57	13,5	0,057
G3/4	**5/8**	15,9	**0133 66 27 39**	23	11,5	32	32	36,5	59	13,5	0,101
G3/4	**3/4**	19,1	**0133 69 27 39**	27	11,5	32	32	43	65,5	16	0,107

0134 quick-acting barbed fitting with male BSP taper thread

brass body
polymer collar



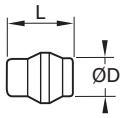
C	DN	ØD1		ØD2	F	G	L	L1	T	kg
R1/8	**1/4**	6,3	**0134 56 10**	13	14	16,5	32,5	20	4,8	0,012
R1/4	**1/4**	6,3	**0134 56 13**	13	14	16,5	37	20	4,8	0,020
R1/4	**3/8**	9,5	**0134 60 13**	16	14	19,5	41	24	7,5	0,021
R3/8	**3/8**	9,5	**0134 60 17**	16	19	19,5	41,5	24	7,5	0,035
R3/8	**1/2**	12,7	**0134 62 17**	19	19	23,5	45,5	28	10	0,038
R1/2	**1/2**	12,7	**0134 62 21**	19	22	23,5	50	28	10	0,064
R1/2	**5/8**	15,9	**0134 66 21**	23	22	27	58,5	36,5	13,5	0,057
R3/4	**5/8**	15,9	**0134 66 27**	23	27	27	60,5	36,5	13,5	0,101
R3/4	**3/4**	19,1	**0134 69 27**	27	27	30,5	67	43	16	0,107

Maximum torque for model 0132

ØD	6	8	10	14	18	22
maxi.torque in m.daN	0,7	1,5	1,8	3,5	6	7

0126 plug

brass



ØD		L	kg
4	0126 04 00	10	0,002
5	0126 05 00	10	0,002
6	0126 06 00	10	0,003
8	0126 08 00	11,5	0,006
10	0126 10 00	13	0,011
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	0,030
18	0126 18 00	16	0,038
20	0126 20 00	16	0,046
22	0126 22 00	18	0,062
28	0126 28 00	19,5	0,108

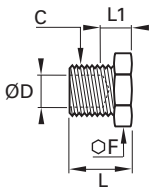
The plug is used to blank off an outlet in a compression fitting.

It replaces the olive.

When an open outlet is required simply dismantle, replace the plug by the tube olive, reusing the nut. The plug is also reusable

0125 metric parallel tube end plug

brass

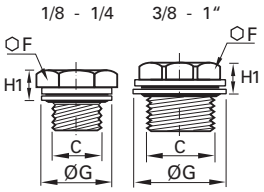


ØD	C		F	L	L1	kg
4	M8x1	0125 04 00	10	12	8	0,006
6	M10x1	0125 06 00	11	13,5	9,5	0,009
8	M12x1	0125 08 00	14	14	9	0,012
10	M16x1,5	0125 10 00	17	18	11	0,025
12	M18x1,5	0125 12 00	19	18	11	0,031
14	M20x1,5	0125 14 00	22	19	11	0,039

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 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...39 male plug, BSP parallel thread

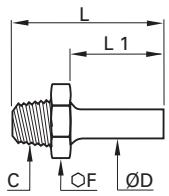
brass
with bi-material seal



C		F	G	H1	kg
G1/8	0220 10 00 39	14	14	6,5	0,005
G1/4	0220 13 00 39	17	17	6,5	0,016
G3/8	0220 17 00 39	17	22	8	0,021
G1/2	0220 21 00 39	22	26	9	0,045
G3/4	0220 27 00 39	22	32	10	0,053
G1"	0220 34 00 39	27	39,5	10,5	0,067

0120 straight stem adaptor, BSP taper thread

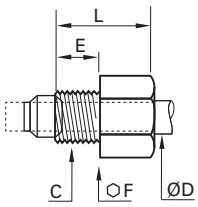
brass



ØD			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	0,008
6	R1/8	0120 06 10	11	26,5	15	0,008
6	R1/4	0120 06 13	14	31	15	0,015
8	R1/8	0120 08 10	11	28,5	17	0,008
8	R1/4	0120 08 13	14	33	17	0,016
8	R3/8	0120 08 17	17	33,5	17	0,021
10	R1/4	0120 10 13	14	36	20	0,017
10	R3/8	0120 10 17	17	36,5	20	0,022
10	R1/2	0120 10 21	22	41	20	0,040
12	R1/4	0120 12 13	14	36	20	0,017
12	R3/8	0120 12 17	17	36,5	20	0,022
12	R1/2	0120 12 21	22	41	20	0,045
14	R3/8	0120 14 17	17	38	21,5	0,023
14	R1/2	0120 14 21	22	42,5	21,5	0,040
15	R3/8	0120 15 17	17	38	21,5	0,023
15	R1/2	0120 15 21	22	42,5	21,5	0,039
16	R3/8	0120 16 17	17	39,5	23	0,024
16	R1/2	0120 16 21	22	44	23	0,042
18	R1/2	0120 18 21	22	44,5	23,5	0,041
18	R3/4	0120 18 27	27	47,5	23,5	0,071
20	R3/4	0120 20 27	27	49	25	0,069
22	R3/4	0120 22 27	27	48,5	25,5	0,067
22	R1"	0120 22 34	36	52,5	25,5	0,116
25	R1"	0120 25 34	36	57	30	0,117
28	R1"	0120 28 34	36	57	30	0,138

0112 male sleeve nut for standard olive

brass

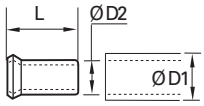


ØD	C		E	F	L	kg
4	M8x1	0112 04 00	7	10	13	0,006
5	M10x1	0112 05 00	7,5	11	13,5	0,007
6	M10x1	0112 06 00	7,5	11	13,5	0,008
8	M12x1	0112 08 00	8	13	15	0,009
10	M16x1,5	0112 10 00	11	17	18	0,018
12	M18x1,5	0112 12 00	11	19	18	0,021
14	M20x1,5	0112 14 00	11	22	18	0,026

This product is designed to allow the tube to be fitted directly into the tapped port in a body using a standard Legris olive.

0127 ferrule for plastic tube

brass

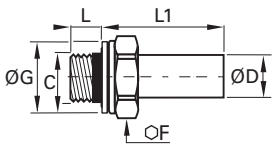


ØD1	ØD2		L	kg
4	2	0127 04 00	11	0,001
4	2,7	0127 04 27	11	0,001
5	3	0127 05 03	11	0,001
5	3,3	0127 05 00	11,5	0,001
6	4	0127 06 00	11,5	0,001
8	5,5	0127 08 55	14	0,001
8	6	0127 08 00	14	0,001
10	7	0127 10 07	18	0,002
10	7,5	0127 10 75	18	0,002
10	8	0127 10 00	18	0,002
12	8	0127 12 08	18	0,002
12	9	0127 12 09	18	0,002
12	10	0127 12 00	18	0,002
14	11	0127 14 11	18	0,003
14	12	0127 14 00	18	0,003
15	12	0127 15 12	18	0,003
16	13	0127 16 13	18	0,003
18	14	0127 18 14	19,5	0,004
20	15	0127 20 15	20,5	0,004
22	16	0127 22 16	21	0,005
25	19	0127 25 19	25	0,005

At high temperature and pressure or during oscillating movements, the use of ferrules prevents distortion of the tube and guarantees effective gripping and sealing.

0128...39 straight stem adaptor, BSP parallel thread

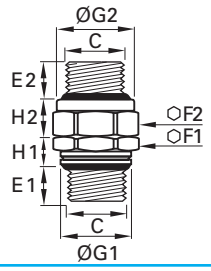
brass
with bi-material seal



ØD	C		F	G	L	L1	kg
4	G1/8	0128 04 10 39	13	14	7,5	20	0,008
4	G1/4	0128 04 13 39	17	17	9	22	0,010
6	G1/8	0128 06 10 39	13	14	7,5	21	0,009
6	G1/4	0128 06 13 39	17	17	9	23	0,015
8	G1/8	0128 08 10 39	13	14	7,5	23	0,009
8	G1/4	0128 08 13 39	17	17	9	25	0,017
8	G3/8	0128 08 17 39	22	22	12	26	0,022
10	G1/4	0128 10 13 39	17	17	9	28	0,017
10	G3/8	0128 10 17 39	22	22	12	29	0,025
10	G1/2	0128 10 21 39	27	26	27	30	0,042
14	G3/8	0128 14 17 39	22	22	12	30,5	0,025
14	G1/2	0128 14 21 39	27	26	27	31,5	0,043
18	G1/2	0128 18 21 39	27	26	27	33,5	0,044
18	G3/4	0128 18 27 39	32	32	14	34,5	0,073
22	G3/4	0128 22 27 39	32	32	14	36,5	0,069
22	G1“	0128 22 34 39	41	39,5	16,5	38	0,118
28	G1“	0128 28 34 39	41	39,5	16,5	42,5	0,140

0151 straight male orientable adaptor, BSP parallel thread

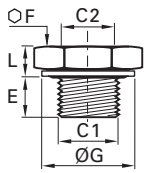
brass
with bi-material seal



C		E1	E2	F1	F2	G1	G2	H1	H2	kg
G1/8	0151 10 10 39	5,5	7	13	14	14	14	6	6,5	0,017
G1/4	0151 13 13 39	7	8,5	17	19	17	19	6,5	9	0,026
G3/8	0151 17 17 39	9,5	9,5	22	22	22	22	9	9	0,042
G1/2	0151 21 21 39	10,5	10,5	27	27	26	26	10	10	0,070
G3/4	0151 27 27 39	11,5	11,5	32	32	32	32	11	10,5	0,096
G1“	0151 34 34 39	13	13,5	41	41	39,5	39,5	12,5	13	0,115

0168...39 reducer male to female, BSP parallel thread

brass
with bi-material seal



C1	C2		E	F	G	L	kg
G1/8	M5x0,8	0168 10 19 39	8	14	14	4,5	0,010
G1/4	M5x0,8	0168 13 19 39	8	17	17	5	0,012
G1/4	G1/8	0168 13 10 39	8	17	17	5	0,020
G3/8	G1/8	0168 17 10 39	10	19	22	5	0,028
G3/8	G1/4	0168 17 13 39	10	19	22	5	0,035
G1/2	G1/8	0168 21 10 39	12	24	26	7,5	0,039
G1/2	G1/4	0168 21 13 39	12	24	26	7,5	0,056
G1/2	G3/8	0168 21 17 39	12	24	26	7,5	0,062
G3/4	G1/4	0168 27 13 39	12	32	32	9,5	0,067
G3/4	G3/8	0168 27 17 39	12	32	32	9,5	0,097
G3/4	G1/2	0168 27 21 39	12	32	32	9,5	0,116

This catalogue offers a range of brass accessories compatible with brass compression fittings.
Please refer to section E.

special products
brass compression fittings

Bespoke products include special connections, fluids compatibility, threads, shape, temperature, materials etc., which preclude the use of standard fittings. Legris is pleased to share its knowledge and experience to solve special problems.

Brass compression fittings can be used with various plastic tubing shown in this catalogue :

- semi-rigid Nylon tube 4 mm to 16 mm OD
- rigid Nylon tube 4 mm to 10 mm OD
- fluorpolymer tube FEP 4 mm to 12 mm OD
- PVC tubing 8 mm to 26 mm OD

accessories and plugs

legris connectic

the complete range of accessories and threaded plugs

brass accessories

0143
parallel
page E5

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taper/parallel
page E5

0152
taper
page E5

0145
parallel
page E5

0158
taper/parallel
page E5

0117
parallel
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0155
parallel
page E6

0164
NPT/parallel
page E6

0167
taper/NPT
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0168
parallel
page E6

0163
taper/parallel
page E6

0169
parallel
page E6

0123
taper
page E7

0136
taper
page E7

0121
taper
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NPT/taper
page E8

0929
taper
page E8

0135
parallel
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nickel-plated accessories

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parallel/metric
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0913-0921
taper/parallel
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0914-0922
taper/metric
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0910
parallel
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parallel/taper
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0915
parallel/metric
page E10

0916-0923
parallel/taper
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0917-0924
taper/metric
page E10

0927
taper
page E10

0928
taper/parallel
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parallel
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0909
parallel/taper
page E11

0903
parallel
page E11

0904
taper/parallel
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0905
parallel/metric
page E11

0906
parallel
page E12

0907
parallel
page E12

0920
parallel/metric
page E12

0191
parallel
page E12

0931
parallel/metric
page E12

0900
taper
page E13

0901
parallel/metric
page E13

0192
taper/parallel
page E13

0902
parallel/metric
page E13

0919
parallel/metric
page E13

aluminium manifolds

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plug-in connection
page E14

3311
parallel
page E14

3312
parallel
page E14

3313
parallel
page E14

3301
modular
page E15

3302
single, double and triple
pages E15 and E16

3303
end plate and angled fixing plate
page E16

the complete range of accessories and threaded plugs

silencers

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parallel
page E17

0673
parallel
page E17

0675
parallel
page E17

0671
push-in
page E17

0677
parallel
page E17

0672
parallel
page E18

0674
parallel
page E18

0676
parallel
page E18

sealing accessories

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page E19

0137
page E19

0605
page E19

0602
page E20

0139
page E20

0127
page E20

1827
page E20

brass plugs

0205
taper/NPT
page E21

0209
taper
page E21

0220
parallel/metric
page E21

0200
parallel/metric
page E22

0201
parallel/metric
page E22

0202
metric
page E22

steel plugs

0206
taper/NPT
page E23

0210
parallel/metric
page E23

0216
taper/NPT
page E23

This catalogue includes details of a range of **stainless steel accessories** and **plugs**. Please refer to the **section J**.

accessories and plugs

In order to offer total connection solutions, **Legris** provides users with a comprehensive range of accessories and plugs, suitable for use with the different thread types and ball valves featured in this catalogue.

accessories for principal applications

- **brass** accessories, **for medium to high pressure.**
  - **working pressure** : 250 bar maximum
  - **working temperature** :
    with captive seal : -20° to + 80°C
    without captive seal : -40° to + 150°C
- **nickel-plated** brass accessories, **low to medium pressure**
  - **working pressure** : 60 bar maximum
  - **working temperature** : -10° to + 80°C
- anodised aluminium **manifolds**
  - **working pressure** : 20 bar maximum
  - **working temperature** : -10° to + 80°C

a large range of plugs

- models in brass and steel
- large variety of thread types:
  - BSP parallel, metric, BSP taper and NPT
  - from M5 to 2"

sealing systems matched to installation requirements

- copper washers
- bonded seals
- captive sealing washers
- fluoropolymer tape

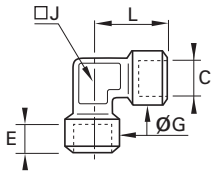
a complete range of silencers

- standard and flow control models
- BSP parallel, M5 and push-in threaded connectors
- sintered bronze and polyethylene

This catalogue includes details of a range of **stainless steel accessories** and **plugs**. Please refer to the **section J**.

0143 female threaded elbow, BSP parallel

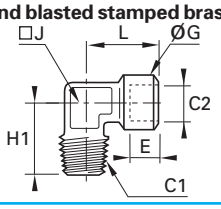
sand blasted stamped brass



C		E	G	J	L	kg
G1/8	0143 10 10	7,5	16,5	12	22,5	0,042
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	0,098
G1/2	0143 21 21	15	28	23	35,5	0,158
G3/4	0143 27 27	16,5	34	27	43,5	0,256

0144 male BSP taper stud elbow, female BSP parallel

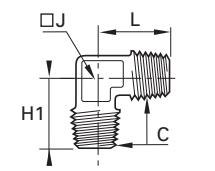
sand blasted stamped brass



C1	C2		E	G	H1	J	L	kg
R1/8	G1/8	0144 10 10	7,5	16,5	23	12	22,5	0,033
R1/4	G1/4	0144 13 13	11	18,5	26	15	26,5	0,050
R3/8	G3/8	0144 17 17	11,5	23,5	30	19	31,5	0,085
R1/2	G1/2	0144 21 21	15	28	35	23	34,5	0,138
R3/4	G3/4	0144 27 27	16,5	34	40	27	43,5	0,229

0152 equal elbow, male BSP taper

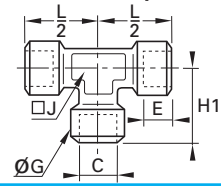
sand blasted stamped brass



C		H1	J	L	kg
R1/8	0152 10 10	19,5	10	19,5	0,018
R1/4	0152 13 13	25	15	25	0,045
R3/8	0152 17 17	26,5	15	26,5	0,056
R1/2	0152 21 21	31,5	19	31,5	0,087
R3/4	0152 27 27	35,5	23	35,5	0,153

0145 equal female tee, BSP parallel

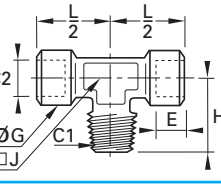
sand blasted stamped brass



C		E	G	H1	J	L/2	kg
G1/8	0145 10 10	7,5	16,5	22,5	12	22,5	0,051
G1/4	0145 13 13	11	18,5	26,5	15	26,5	0,074
G3/8	0145 17 17	11,5	23,5	31	19	31	0,147
G1/2	0145 21 21	15	28	38	23	38	0,231
G3/4	0145 27 27	16,5	34	47,5	27	47,5	0,381

0158 female BSP parallel tee, stud BSP taper

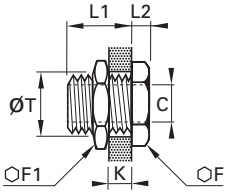
sand blasted stamped brass



C1	C2		E	G	H1	J	L/2	kg
R1/8	G1/8	0158 10 10	7,5	16,5	21,5	12	21,5	0,045
R1/4	G1/4	0158 13 13	11	18,5	26	15	26	0,071
R3/8	G3/8	0158 17 17	11,5	23,5	30	19	30	0,118
R1/2	G1/2	0158 21 21	15	28	36	23	36	0,203
R3/4	G3/4	0158 27 27	16,5	34	44	27	44	0,320

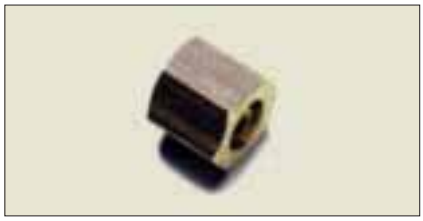
0117 bulkhead fitting BSP parallel

brass

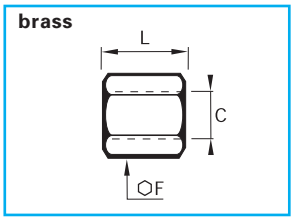


C		F	F1	K maxi	L1	L2	T maxi	kg
M5x0,8	0117 00 19	14	14	7	10,5	3,5	10,5	0,013
G1/8	0117 00 10	19	22	9	14	4	16,5	0,033
G1/4	0117 00 13	24	27	15	21	4	20,5	0,057
G3/8	0117 00 17	30	32	14	21	5	26,5	0,096
G1/2	0117 00 21	32	36	20	27	6	28,5	0,117
G3/4	0117 00 27	41	41	22,5	30	6	34,5	0,162
G1"	0117 00 34	46	50	24,5	34	8	42,5	0,270
G1"1/4	0117 00 42	55	55	29,5	39	8	49,5	0,300
G1"1/2	0117 00 49	60	60	29,5	39	8	54,5	0,306

0155 double female sleeve, BSP parallel thread



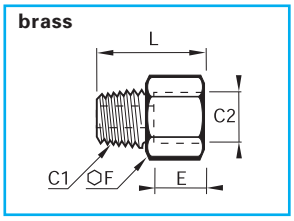
brass



C		F	L	kg
G1/8	0155 10 10	14	17	0,015
G1/4	0155 13 13	17	24	0,025
G3/8	0155 17 17	22	25	0,045
G1/2	0155 21 21	27	32	0,084
G3/4	0155 27 27	32	35	0,109

0164 male NPT to female BSP parallel adaptor

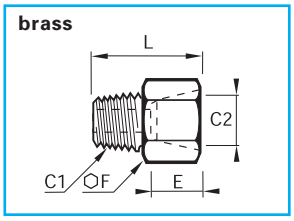
brass



C1	C2		E	F	L	kg
1/8	G1/8	0164 11 10	7,5	14	20	0,015
1/4	G1/4	0164 14 13	11	17	27,5	0,028
3/8	G3/8	0164 18 17	11,5	22	28,5	0,044
1/2	G1/2	0164 22 21	15	27	36,5	0,081
3/4	G3/4	0164 28 27	16,5	32	38,5	0,112

0167 male BSP taper to female NPT adaptor

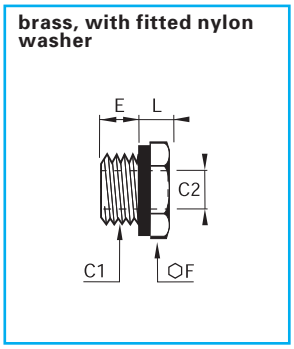
brass



C1	C2		E	F	L	kg
R1/8	1/8	0167 10 11	8	14	21	0,016
R1/4	1/4	0167 13 14	11,5	17	28,5	0,029
R3/8	3/8	0167 17 18	12	22	29,5	0,047
R1/2	1/2	0167 21 22	15,5	27	37,5	0,087
R3/4	3/4	0167 27 28	17	32	39,5	0,121

0168 reducer male to female BSP parallel and M5

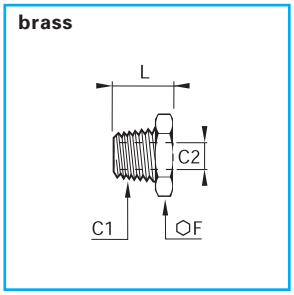
brass, with fitted nylon washer



C1	C2		E	F	L	kg
G1/8	M5x0,8	0168 10 19	7	14	6	0,008
G1/4	M5x0,8	0168 13 19	7	17	7	0,010
G1/4	G1/8	0168 13 10	7	17	7	0,010
G3/8	G1/8	0168 17 10	9	19	6	0,020
G3/8	G1/4	0168 17 13	9	19	6	0,013
G1/2	G1/8	0168 21 10	11	24	10	0,046
G1/2	G1/4	0168 21 13	11	24	10	0,038
G1/2	G3/8	0168 21 17	11	24	10	0,026
G3/4	G1/4	0168 27 13	11	32	12	0,090
G3/4	G3/8	0168 27 17	11	32	12	0,078
G3/4	G1/2	0168 27 21	11	32	12	0,058

0163 reducer male BSP taper to female BSP parallel

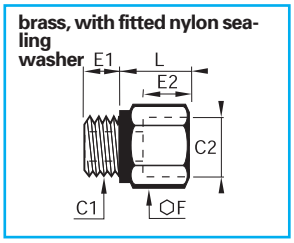
brass



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
R3/8	G1/4	0163 17 13	17	16,5	0,012
R1/2	G1/8	0163 21 10	22	21	0,047
R1/2	G1/4	0163 21 13	22	21	0,038
R1/2	G3/8	0163 21 17	22	21	0,025
R3/4	G1/4	0163 27 13	27	24	0,086
R3/4	G3/8	0163 27 17	27	24	0,069
R3/4	G1/2	0163 27 21	27	24	0,048

0169 increaser male to female, BSP parallel

brass, with fitted nylon sealing washer

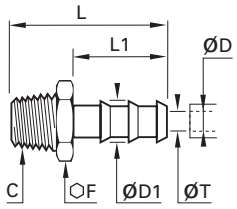


C1	C2		E1	E2	F	L	kg
G1/8	G1/4	0169 10 13	5	11	17	16	0,020
G1/8	G3/8	0169 10 17	5	14	22	19,5	0,038
G1/4	G3/8	0169 13 17	7	14	22	19,5	0,042
G1/4	G1/2	0169 13 21	7	14,5	27	20,5	0,061
G3/8	G1/2	0169 17 21	8	14,5	27	20,5	0,062
G3/8	G3/4	0169 17 27	8	15,5	32	22	0,082
G1/2	G3/4	0169 21 27	9,5	15,5	32	22,5	0,088

brass tailpiece adaptors

0123 tailpiece adaptor for rubber hose, male BSP taper

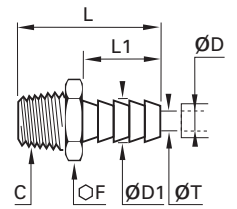
brass



ØD	C		ØD1	F	L	L1	T mini	kg
4	R1/8	0123 04 10	6	10	34	22,5	3,3	0,008
6	R1/8	0123 06 10	8	10	34	22,5	5	0,009
7	R1/8	0123 07 10	9	10	34	22,5	5	0,009
7	R1/4	0123 07 13	9	14	38,5	22,5	6	0,018
7	R3/8	0123 07 17	9	17	39	22,5	6	0,023
10	R1/8	0123 10 10	12,2	13	34	22,5	5	0,014
10	R1/4	0123 10 13	12,2	14	38,5	22,5	7	0,021
10	R3/8	0123 10 17	12,2	17	39	22,5	9,5	0,023
12	R3/8	0123 12 17	14	17	46	29,5	11	0,026
13	R1/4	0123 13 13	15	17	45,5	29,5	7	0,027
13	R3/8	0123 13 17	15	17	46	29,5	11	0,027
13	R1/2	0123 13 21	15	22	50,5	29,5	12	0,047
16	R3/8	0123 16 17	18,5	19	54,5	38	11	0,040
16	R1/2	0123 16 21	18,5	22	59	38	14	0,056
16	R3/4	0123 16 27	18,5	27	62	38	15	0,082
19	R3/8	0123 19 17	21,5	22	54,5	38	11	0,046
19	R1/2	0123 19 21	21,5	22	59	38	14	0,058
19	R3/4	0123 19 27	21,5	27	62	38	18	0,083
25	R3/4	0123 25 27	26,7	27	62	38	18	0,083
25	R1"	0123 25 34	27	36	65	38	24	0,124
32	R1"	0123 32 34	34,5	36	70	43	24	0,144

0136 tailpiece adaptor for Legris nylon tube, male BSP taper

brass



ØD	C		ØD1	F	L	L1	T mini	kg
4	R1/8	0136 06 10	4,3	10	26,5	15	2	0,007
4	R1/4	0136 06 13	4,3	14	31	15	2	0,015
4	R3/8	0136 06 17	4,3	17	31,5	15	2	0,020
6	R1/8	0136 08 10	6,4	10	26,5	15	4	0,007
6	R1/4	0136 08 13	6,4	14	31	15	4	0,015
6	R3/8	0136 08 17	6,4	17	31,5	15	4	0,020
8	R1/4	0136 10 13	8,4	14	31	15	6	0,016
8	R3/8	0136 10 17	8,4	17	31,5	15	6	0,020
8	R1/2	0136 10 21	8,4	22	36	15	6	0,039
10	R1/4	0136 12 13	10,7	14	36	20	7	0,019
10	R3/8	0136 12 17	10,7	17	36,5	20	8	0,023
10	R1/2	0136 12 21	10,7	22	41	20	8	0,040
12	R1/4	0136 14 13	12,7	14	36	20	7	0,019
12	R3/8	0136 14 17	12,7	17	36,5	20	10	0,023
12	R1/2	0136 14 21	12,7	22	41	20	10	0,042
12	R3/4	0136 14 27	12,7	27	44	20	10	0,072
13	R3/8	0136 16 17	13,7	17	36,5	20	11	0,023
13	R1/2	0136 16 21	13,7	22	41	20	11	0,041
13	R3/4	0136 16 27	13,7	27	44	20	11	0,071

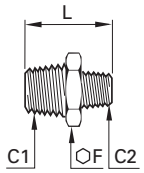
The 2 central digits in the product code part number represent the tube outside ØD. Ex: 0136 16 27.
This range of adaptors is limited to the maximum size (16 x 13) of **Legris** nylon tube.

Technical specification of brass accessories :

- **Working pressure :** 250 bar maximum
  The maximum pressure and temperature varies according to the nature of the fluid, and the diameter and type of tube used.
- **Working temperature :** with captive seal: -20° to +80°C
  without captive seal: -40° to +150 °C

0121 straight male unequal adaptor, BSP taper

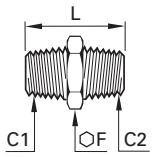
brass



C1	C2		F	L	kg
R1/8	R1/8	0121 10 10	11	19	0,009
R1/4	R1/4	0121 13 13	14	27	0,021
R1/4	R1/8	0121 13 10	14	23,5	0,021
R3/8	R3/8	0121 17 17	17	28	0,025
R3/8	R1/4	0121 17 13	17	27,5	0,024
R3/8	R1/8	0121 17 10	17	24	0,022
R1/2	R1/2	0121 21 21	22	36	0,053
R1/2	R3/8	0121 21 17	22	32,5	0,045
R1/2	R1/4	0121 21 13	22	32	0,045
R1/2	R1/8	0121 21 10	22	28,5	0,041
R3/4	R3/4	0121 27 27	27	40	0,092
R3/4	R1/2	0121 27 21	27	39	0,084
R3/4	R3/8	0121 27 17	27	35,5	0,076
R3/4	R1/4	0121 27 13	27	35	0,079
R1"	R1"	0121 34 34	36	46	0,156
R1"	R3/4	0121 34 27	36	43	0,143
R1"	R1/2	0121 34 21	36	42	0,133
R1"	R3/8	0121 34 17	36	38,5	0,126
R1"1/4	R1"1/4	0121 42 42	46	53	0,233
R1"1/4	R1"	0121 42 34	46	50,5	0,237
R1"1/4	R3/4	0121 42 27	46	47,5	0,229
R1"1/4	R1/2	0121 42 21	46	46,5	0,219

0121 straight male NPT to BSP taper adaptor

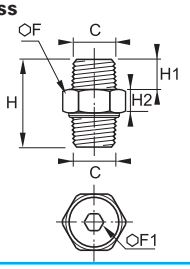
brass



C1 NPT	C2		F	L	kg
1/8	R1/8	0121 11 10	11	19	0,009
1/4	R1/4	0121 14 13	14	27	0,021
3/8	R3/8	0121 18 17	17	28	0,025
1/2	R1/2	0121 22 21	22	36	0,053
3/4	R3/4	0121 28 27	27	40	0,090

0929 3 piece adaptor, double male BSP taper

brass

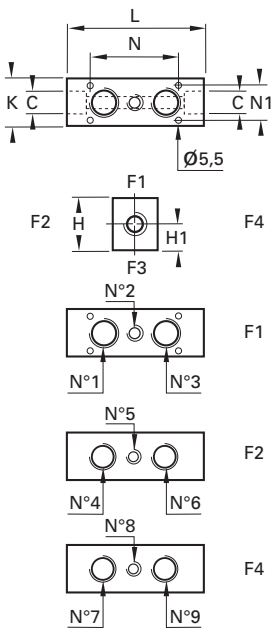


C		F	F1	H	H1	H2	kg
R1/8	0929 00 10	15	5	27	9	8,5	0,181
R1/4	0929 00 13	19	6	33,5	11,5	9,5	0,100
R3/8	0929 00 17	22	8	36,5	13	10	0,010
R1/2	0929 00 21	27	12	45	15,5	12	0,088

This brass connection accessory (model **0929**) makes assembly much easier thanks to its 3 piece design. To join two threaded components, just push together and tighten the sleeve nut –thus reducing installation time.
Maximum working pressure: 50 bar
Working temperature: -10° to +80°c

0135 manifold block, BSP parallel

brass



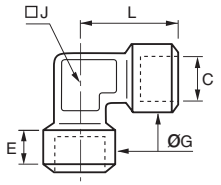
C		H	H1	K	L	N	N1	kg
G1/4	0135 06 13	30	13	25	70	37	17	0,334
G1/4	0135 09 13	30	13	25	87	54	17	0,414
G1/2	0135 06 21	40	16	35	86	45	27	0,722
G1/2	0135 09 21	40	16	35	109	68	27	0,878
G3/4	0135 10 27	45	21	40	122	78	32	1,212

This product is designed to distribute in several directions. The number of ports can be effectively increased by using tee pieces, cross pieces or double banjo couplings.

	F1				F2				F4			
	no. os ports	n°1	n°2	n°3	no. os ports	n°4	n°5	n°6	no. os ports	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	G3/8	G1/8	G3/8	3	G1/4	G1/8	G1/4

0912 equal female stud elbow, BSP parallel and M5

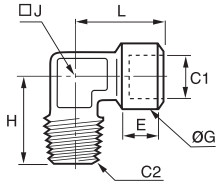
nickel-plated brass



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	21	0,020
G1/4	0912 00 13	11	17	13	25,5	0,040
G3/8	0912 00 17	11,5	21	17	28	0,059
G1/2	0912 00 21	14	26	21	33,5	0,100
G3/4	0912 00 27	15	31	27	36,5	0,154

0913-0921 equal female stud elbow BSP parallel, male BSP taper and M5

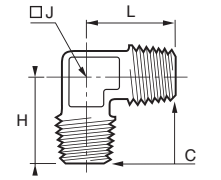
nickel-plated brass



C1	C2		E	G	H	J	L	kg
M5x08	M5x08	0921 00 19	4	8	11	9	11	0,006
G1/8	R1/8	0913 00 10	8	13	18,5	10	21	0,017
G1/4	R1/4	0913 00 13	11	17	23,5	13	25,5	0,033
G3/8	R3/8	0913 00 17	11,5	21	26	17	28	0,050
G1/2	R1/2	0913 00 21	14	26	31	21	33,5	0,085
G3/4	R3/4	0913 00 27	15	31	35	27	36,5	0,122

0914-0922 equal male stud elbow, BSP taper and M5

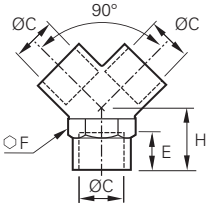
nickel-plated brass



C		H	J	L	kg
M5x0,8	0922 00 19	11	9	11	0,005
R1/8	0914 00 10	18,5	10	18,5	0,012
R1/4	0914 00 13	23,5	13	23,5	0,028
R3/8	0914 00 17	26	17	26	0,041
R1/2	0914 00 21	31	21	31	0,071
R3/4	0914 00 27	35	27	35	0,096

0910 equal 'Y', female BSP parallel

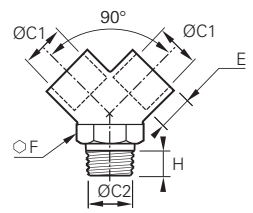
nickel-plated brass



C		E	F	H	kg
G1/8	0910 00 10	8	13	12	0,020
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	0,096

0911 equal 'Y', female BSP parallel, male BSP taper

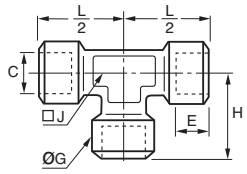
nickel-plated brass



C1	C2		E	F	H	kg
G1/8	R1/8	0911 00 10	8	13	12	0,022
G1/4	R1/4	0911 00 13	11	17	14	0,039
G3/8	R3/8	0911 00 17	11,5	20	16	0,053
G1/2	R1/2	0911 00 21	14	25	19	0,107

0915 equal female tee, BSP parallel and M5

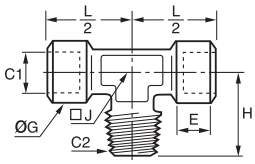
nickel-plated brass



C		E	G	H	J	L/2	kg
M5x0,8	0915 00 19	4	8	11	9	11	0,009
G1/8	0915 00 10	8	13	21	10	21	0,028
G1/4	0915 00 13	11	17	25,5	13	25,5	0,056
G3/8	0915 00 17	11,5	21	28	17	28	0,083
G1/2	0915 00 21	14	26	33,5	21	33,5	0,139
G3/4	0915 00 27	15	31	36,5	27	36,5	0,215

0916-0923 male stud branch tee, female BSP parallel, male BSP taper and M5

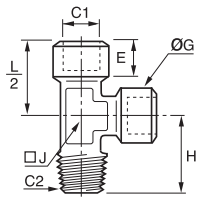
nickel-plated brass



C1	C2		E	G	H	J	L/2	kg
M5x0,8	M5x0,8	0923 00 19	4	8	11	9	11	0,009
G1/8	R1/8	0916 00 10	8	13	18,5	10	21	0,025
G1/4	R1/4	0916 00 13	11	17	23,5	13	25,5	0,049
G3/8	R3/8	0916 00 17	11,5	21	26	17	28	0,076
G1/2	R1/2	0916 00 21	14	26	31	21	33,5	0,125
G3/4	R3/4	0916 00 27	15	31	36,5	27	36,5	0,187

0917-0924 male stud run tee, female BSP parallel, male BSP taper and M5

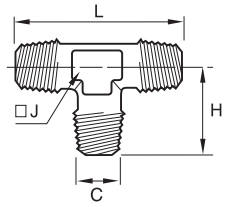
nickel-plated brass



C1	C2		E	G	H	J	L/2	kg
M5x0,8	M5x0,8	0924 00 19	4	8	11	9	11	0,009
G1/8	R1/8	0917 00 10	8	13	18,5	10	21	0,024
G1/4	R1/4	0917 00 13	11	17	23,5	13	25,5	0,050
G3/8	R3/8	0917 00 17	11,5	21	26	17	28	0,074
G1/2	R1/2	0917 00 21	14	26	31	21	33,5	0,128
G3/4	R3/4	0917 00 27	15	31	36,5	27	36,5	0,187

0927 equal male tee, BSP taper

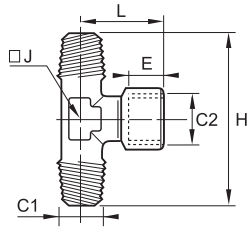
nickel-plated brass



C		H	J	L	kg
R1/8	0927 00 10	18,5	10	37	0,017
R1/4	0927 00 13	23,5	13	47	0,038
R3/8	0927 00 17	26	17	52	0,057
R1/2	0927 00 21	31	21	62	0,093

0928 male stud branch tee BSP taper, female BSP parallel

nickel-plated brass

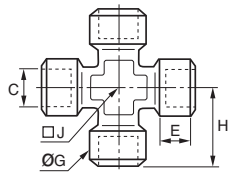


C1	C2		H	J	L	kg
R1/8	G1/8	0928 00 10	8	37	10	21	0,021
R1/4	G1/4	0928 00 13	11	47	13	25,5	0,044
R3/8	G3/8	0928 00 17	11,5	52	17	28	0,066
R1/2	G1/2	0928 00 21	14	62	21	33,5	0,109

nickel-plated brass accessories - low to medium pressure

0908 equal female cross, BSP parallel

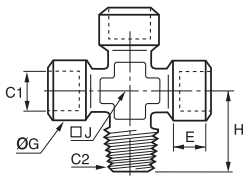
nickel-plated brass



C		E	G	H	J	kg
G1/8	0908 00 10	8	13	21	10	0,035
G1/4	0908 00 13	11	17	25,5	13	0,072
G3/8	0908 00 17	11,5	21	28	17	0,103
G1/2	0908 00 21	14	26	33,5	21	0,182

0909 equal cross, female BSP parallel, male BSP taper

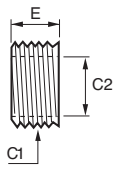
nickel-plated brass



C1	C2		E	G	H	J	kg
G1/8	R1/8	0909 00 10	8	13	18,5	10	0,033
G1/4	R1/4	0909 00 13	11	17	23,5	13	0,066
G3/8	R3/8	0909 00 17	11,5	21	26	17	0,094
G1/2	R1/2	0909 00 21	14	26	31	21	0,165

0903 reducer male to female BSP parallel

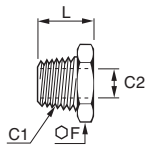
nickel-plated brass



C1	C2		E	kg
G1/4	G1/8	0903 10 13	8	0,003
G3/8	G1/4	0903 13 17	9	0,006
G1/2	G3/8	0903 17 21	10	0,009
G3/4	G1/2	0903 21 27	14	0,021
G1"	G3/4	0903 27 34	20	0,038

0904 reducer male BSP taper to female BSP parallel

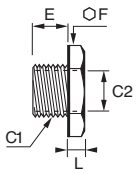
nickel-plated brass



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
R3/8	G1/4	0904 13 17	17	16,5	0,014
R1/2	G1/4	0904 13 21	22	19,5	0,038
R1/2	G3/8	0904 17 21	22	19,5	0,028
R3/4	G3/8	0904 17 27	27	23,5	0,062
R3/4	G1/2	0904 21 27	27	23,5	0,044

0905 reducer male to female BSP parallel and M5

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
G3/8	G1/4	0905 13 17	9	19	5	0,013
G1/2	G1/4	0905 13 21	10	24	5,5	0,031
G1/2	G3/8	0905 17 21	10	24	5,5	0,021
G3/4	G3/8	0905 17 27*	12	30	5,5	0,055
G3/4	G1/2	0905 21 27	12	30	5,5	0,039

* Please contact us for detailed drawings of external thread.

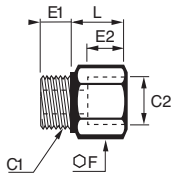
Technical specification of nickel-plated brass accessories :

- **Working pressure** : 60 bar maximum
- **Working temperature** : -10° to + 80°C

The maximum pressure and temperature varies according to the nature of the fluid and the diameter/type of tube used.

0906 increaser male to female BSP parallel and M5

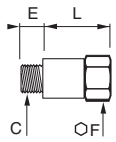
nickel-plated brass



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	0,009
G1/8	G1/4	0906 10 13	6	11	17	14	0,017
G1/8	G3/8	0906 10 17	6	11,5	22	14,5	0,029
G1/4	G1/4	0906 00 13	8	11,5	17	14	0,019
G1/4	G3/8	0906 13 17	8	11	22	14,5	0,032
G1/4	G1/2	0906 13 21	8	15	27	18	0,050
G3/8	G3/8	0906 00 17	9	11,5	22	14,5	0,034
G3/8	G1/2	0906 17 21	9	14	27	18	0,054
G1/2	G1/2	0906 00 21	10	14	27	18	0,050

0907 equal extended adaptor male/female BSP parallel

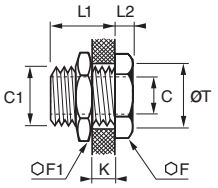
nickel-plated brass



C		E	F	L	kg
G1/8	0907 00 10	6	14	16	0,014
G1/8	0907 00 10 01	6	14	36	0,029
G1/4	0907 00 13	8	17	27	0,026
G1/4	0907 00 13 01	8	17	43	0,037

0920 female bulkhead connector BSP parallel and M5

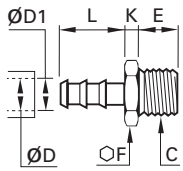
nickel-plated brass



C	C1		F	F1	K max.	L1	L2	T max.	kg
M5x0,8	M10x1	0920 00 19	14	14	7	10,5	3,5	10,5	0,002
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	0,116

0191 tailpiece adaptor for rubber hose, BSP parallel

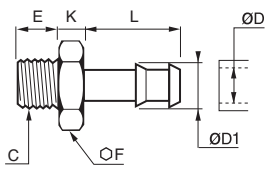
nickel-plated brass



D	C		D1	E	F	K	L	kg
4	G1/4	0191 04 13	6	9,5	17	5	22,5	0,019
7	G1/4	0191 07 13	9	9,5	17	5	22,5	0,021
7	G1/2	0191 07 21	9	11	27	7	29,5	0,065
10	G1/4	0191 10 13	12,2	9,5	17	5	22,5	0,021
10	G1/2	0191 10 21	12,2	11	27	7	29,5	0,060
13	G1/4	0191 13 13	15,2	9,5	17	5	22,5	0,023
13	G1/2	0191 13 21	15,2	11	27	7	29,5	0,058
16	G1/2	0191 16 21	18,5	11	27	7	36,5	0,069

0931 tailpiece adaptor for rubber hose, male BSP parallel

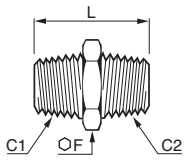
nickel-plated brass



D	C		D1	E	F	K	L	kg
6	G1/8	0931 06 10	7	6	12	4	20	0,008
6	G1/4	0931 06 13	7	8	14	5	20	0,013
7	G1/8	0931 07 10	8	6	12	4	20	0,009
7	G1/4	0931 07 13	8	8	14	5	20	0,017
7	G3/8	0931 07 17	8	9	19	5	20	0,022
8	G1/8	0931 08 10	9	6	12	4	20	0,009
8	G1/4	0931 08 13	9	8	14	5	20	0,014
8	G3/8	0931 08 17	9	9	19	5	20	0,022
10	G1/4	0931 10 13	12	8	14	5	20	0,016
10	G3/8	0931 10 17	12	9	19	5	20	0,023
10	G1/2	0931 10 21	12	10	22	6	22	0,032
15	G3/8	0931 15 17	17	9	19	6	24	0,030
15	G1/2	0931 15 21	17	10	22	6	24	0,036
18	G1/2	0931 18 21	20	10	22	6	24	0,043

0900 straight male, unequal adaptor, BSP taper

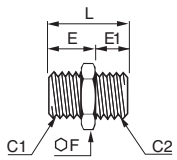
nickel-plated brass



C1	C2		F	L	kg
R1/8	R1/8	0900 00 10	12	19,5	0,008
R1/8	R1/4	0900 10 13	14	23,5	0,013
R1/4	R1/4	0900 00 13	14	27	0,016
R1/8	R3/8	0900 10 17	17	24	0,019
R1/4	R3/8	0900 13 17	17	27,5	0,023
R3/8	R3/8	0900 00 17	17	28	0,026
R1/4	R1/2	0900 13 21	22	30,5	0,034
R3/8	R1/2	0900 17 21	22	31	0,038
R1/2	R1/2	0900 00 21	22	33,5	0,040
R1/2	R3/4	0900 21 27	27	37,5	0,066
R3/4	R3/4	0900 00 27	27	40	0,077
R3/4	R1"	0900 27 34	34	43	0,081
R1"	R1"	0900 00 34	34	45,5	0,153

0901 equal/unequal adaptor, straight male, BSP parallel and M5

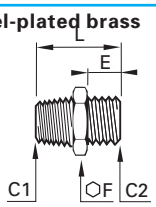
nickel-plated brass



C1	C2		E	E1	F	L	kg
M5X0,8	M5X0,8	0901 00 19	4	4	8	11,5	0,002
M5X0,8	G1/8	0901 19 10	4	6	14	14,5	0,008
G1/8	G1/8	0901 00 10	6	6	14	16,5	0,008
G1/8	G1/4	0901 10 13	6	8	17	19	0,014
G1/4	G1/4	0901 00 13	8	8	17	21	0,016
G1/4	G3/8	0901 13 17	8	9	19	22	0,021
G3/8	G3/8	0901 00 17	9	9	19	23	0,024
G3/8	G1/2	0901 17 21	9	10	24	24,5	0,035
G1/2	G1/2	0901 00 21	10	10	24	25,5	0,034

0192 straight male adaptor, BSP taper to BSP parallel

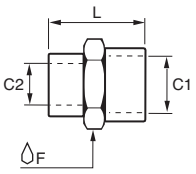
nickel-plated brass



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
R1/4	G1/2	0192 13 21	27	27	31,5	0,067
R3/8	G1/4	0192 17 13	9,5	17	45	0,025
R3/8	G1/2	0192 17 21	27	27	31,5	0,061
R1/2	G1/2	0192 21 21	27	27	34	0,060

0902 straight female, equal/unequal adaptor, BSP parallel and M5

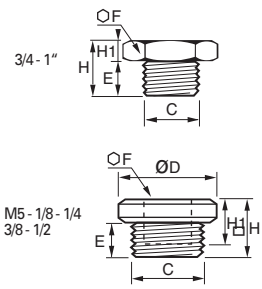
nickel-plated brass



C1	C2		F	L	kg
M5x0,8	M5x0,8	0902 00 19	8	11	0,003
M5x0,8	G1/8	0902 19 10	14	13	0,008
G1/8	G1/8	0902 00 10	14	15	0,010
G1/8	G1/4	0902 10 13	17	19,5	0,017
G1/4	G1/4	0902 00 13	17	22	0,018
G1/8	G3/8	0902 10 17	22	20	0,029
G1/4	G3/8	0902 13 17	22	23	0,032
G3/8	G3/8	0902 00 17	22	24	0,037
G1/4	G1/2	0902 13 21	27	27	0,032
G3/8	G1/2	0902 17 21	27	27,5	0,050
G1/2	G1/2	0902 00 21	27	30	0,069
G1/2	G3/4	0902 21 27	30	30	0,069
G3/4	G3/4	0902 00 27	30	32	0,074

0919 internal hexagon head, BSP parallel and M5

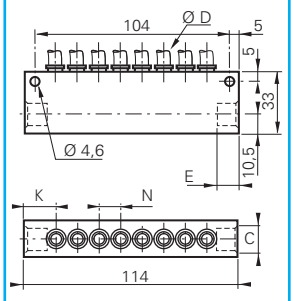
nickel-plated brass



C		ØD	E	F	H	H1	kg
M5x0,8	0919 00 19	8	4	2,5	7,5	3,5	0,001
G1/8	0919 00 10	15	6	3	10	4	0,008
G1/4	0919 00 13	18	8	6	12	4	0,013
G3/8	0919 00 17	21	9	8	13	4	0,021
G1/2	0919 00 21	25	10	10	14,5	4,5	0,036
G3/4	0919 00 27	-	11	30	17	6	0,044
G1"	0919 00 34	-	13	38	19	6	0,084

3310 manifold with LF 3000 push-in connection

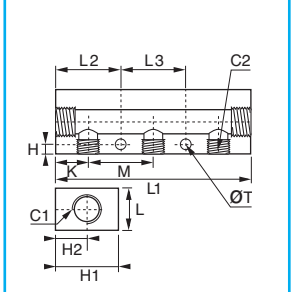
anodized aluminium



ØD	C2		Nomber of outlets	E	K	N	kg
4	G1/4	3310 04 13	8	10	16,75	11,5	0,163
6	G1/4	3310 06 13	8	10	13,5	12,5	0,165
8	G3/8	3310 08 17	6	12	19	15	0,165
10	G1/2	3310 10 21	6	16	19	17,1	0,207
12	G1/2	3310 12 21	6	16	19	20,5	0,225

3311 female manifold BSP parallel and M5

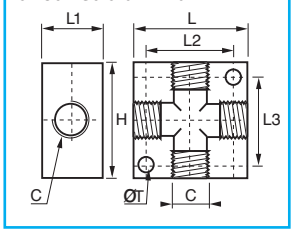
anodized aluminium



C1	C2		Nomber of outlets	H	H1	H2	K	L	L1	L2	L3	M	T	kg
G1/8	M5x0,8	3311 19 10 07	7	3,5	20	11,5	14,5	15	95	7,5	80	11	4,4	0,072
G1/4	G1/8	3311 10 13 02	2	4,5	30	15	15,5	20	61	5,5	50	30	5	0,086
G1/4	G1/8	3311 10 13 03	3	4,5	30	15	15,5	20	91	30,5	30	30	5	0,128
G1/4	G1/8	3311 10 13 04	4	4,5	30	15	15,5	20	121	30,5	60	30	5	0,175
G1/4	G1/8	3311 10 13 05	5	4,5	30	15	15,5	20	151	30,5	90	30	5	0,227
G1/4	G1/8	3311 10 13 06	6	4,5	30	15	15,5	20	181	30,5	120	30	5	0,268
G3/8	G1/4	3311 13 17 02	2	6	30	11	19	20	74	6,5	61	36	6,5	0,417
G3/8	G1/4	3311 13 17 03	3	6	30	11	19	20	110	37	36	36	6,5	0,134
G3/8	G1/4	3311 13 17 04	4	6	30	11	19	20	146	37	72	36	6,5	0,191
G3/8	G1/4	3311 13 17 05	5	6	30	11	19	20	182	37	108	36	6,5	0,235
G3/8	G1/4	3311 13 17 06	6	6	30	11	19	20	218	37	144	36	6,5	0,280

3312 female cross manifold BSP parallel and M5

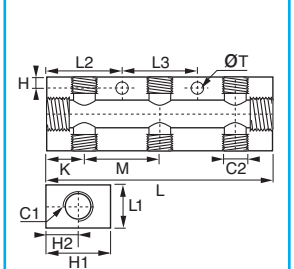
anodized aluminium



C		H	L	L1	L2	L3	T	kg
M5x0,8	3312 00 19	20	20	10	12	12	4,5	0,008
G1/8	3312 00 10	30	30	16	23	22	4,5	0,032
G1/4	3312 00 13	40	40	20	30	27	5,5	0,067
G3/8	3312 00 17	50	50	25	38	39	6,5	0,130
G1/2	3312 00 21	50	50	25	38	39	6,5	0,105

3313 double female manifold BSP parallel

anodized aluminium



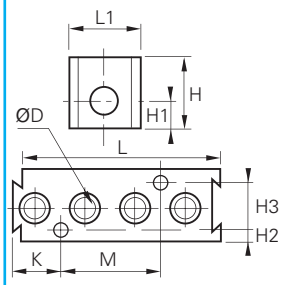
C1	C2		Nomber of outlets	H	H1	H2	K	L	L1	L2	L3	M	T	kg
G1/4	G1/8	3313 10 13 02	2x2	4,5	30	15	15,5	61	20	5,5	50	30	5	0,082
G1/4	G1/8	3313 10 13 03	2x3	4,5	30	15	15,5	91	20	30,5	30	30	5	0,124
G1/4	G1/8	3313 10 13 04	2x4	4,5	30	15	15,5	121	20	30,5	60	30	5	0,157
G1/4	G1/8	3313 10 13 05	2x5	4,5	30	15	15,5	151	20	30,5	90	30	5	0,214
G3/8	G1/4	3313 13 17 02	2x2	6	40	20	19	74	20	6,5	61	36	6,5	0,120
G3/8	G1/4	3313 13 17 03	2x3	6	40	20	19	110	20	37	36	36	6,5	0,176
G3/8	G1/4	3313 13 17 04	2x4	6	40	20	19	146	20	37	72	36	6,5	0,254
G3/8	G1/4	3313 13 17 05	2x5	6	40	20	19	182	20	37	108	36	6,5	0,297
G1/2	G1/4	3313 13 21 03	2x3	6	40	20	22	116	28	40	36	36	6,5	0,235
G1/2	G1/4	3313 13 21 04	2x4	6	40	20	22	152	28	40	72	36	6,5	0,396
G1/2	G1/4	3313 13 21 05	2x5	6	40	20	22	188	28	40	108	36	6,5	0,396

Technical specification of manifolds 3310, 3311, 3312 and 3313

- **working pressure** : maximum 20 bar
- **working temperature** : -10° to + 80°C

3301 manifold with LF 3000 push-in connection

anodized aluminium

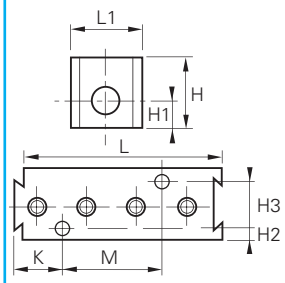


ØD	Nomber of outlets		H	H1	H2	H3	K	L	L1	M	kg
4	8	3301 04 00	25	10	4,5	16	17,25	73,5	25	35	0,109
6	4	3301 06 00	25	10	4,5	16	17,25	73,5	25	35	0,114

fixing by screw M3 x 20

3301 female manifold BSP parallel

anodized aluminium

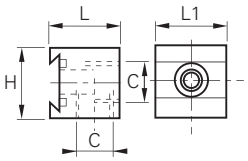


C	Nomber of outlets		H	H1	H2	H3	K	L	L1	M	kg
G1/8	4	3301 07 10	25	10	4,5	16	17,25	73,5	25	35	0,095

fixing by screw M3 x 20

3302 single module BSP parallel

anodized aluminium

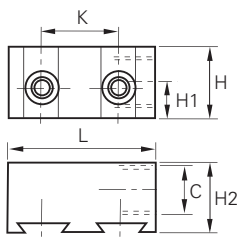


C		H	L	L1	kg
G1/4	3302 01 13	25	24,5	25	0,029
G1/4	3302 01 13 01	25	24,5	25	0,029

3302 01 13 : side entry thread
3302 01 13 01 : rear entry thread

3302 double manifold BSP parallel

anodized aluminium

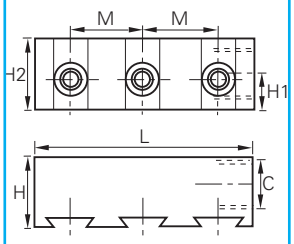


C		H	H1	H2	K	L	kg
G3/8	3302 02 17	25	12,5	24,5	26	51	0,052

side entry thread

3302 triple manifold BSP parallel

anodized aluminium

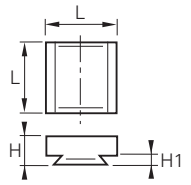


C		H	H1	H2	L	M	kg
G3/8	3302 03 17	24,5	12,5	25	77	26	0,078

lateral supply

3303 end plate

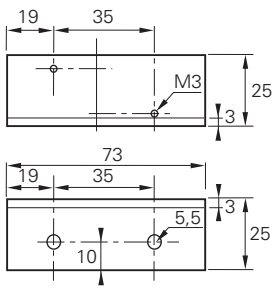
anodized aluminium



	H	H1	L	kg
3303 00 01	9,5	3,5	25	0,014

3303 angled fixing plate

anodized aluminium



	kg
3303 00 02	0,026

Technical specification of manifolds 3301, 3302 and 3303

- **working pressure** : maximum 20 bar
- **working temperature** : -10° to + 80°C

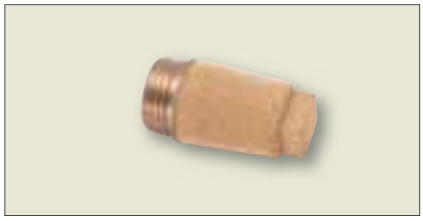
silencers

Legris silencers reduce sound levels whilst air is vented from a compressed air system.
Legris offers 2 types of silencers:

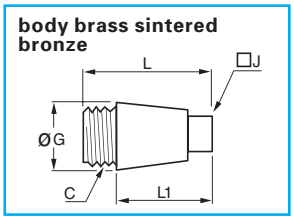
- **sintered bronze**, for an economical solution
- **polyethylene**, for improved reduction of noise whilst guaranteeing high exhaust air flow

Mounted on the control valve exhaust outlet, **Legris flow control silencers** allow control of exhaust flow and, thus, cylinder rod speed.

0670 threaded silencer, BSP parallel



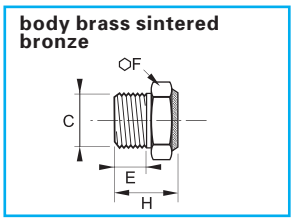
body brass sintered bronze



C		J	G	L	L1	kg
G1/8	0670 00 10	7	12	22	17	0,007
G1/4	0670 00 13	9	15	27	21	0,015
G3/8	0670 00 17	11	19	35	28	0,029
G1/2	0670 00 21	13	23	43	34	0,051
G3/4	0670 00 27	17	30	55	45	0,095
G1"	0670 00 34	21	37	65	53	0,162

0673 threaded silencer, male BSP parallel and M5

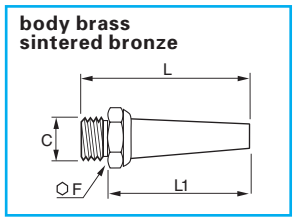
body brass sintered bronze



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	0,013
G3/8	0673 00 17	10	22	18	0,020
G1/2	0673 00 21	12	27	21	0,024

0675 silencer, male BSP parallel and M5

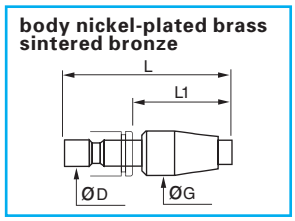
body brass sintered bronze



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	0,024
G3/8	0675 00 17	22	54	44	0,042
G1/2	0675 00 21	27	65	53	0,078

0671 push-in silencer

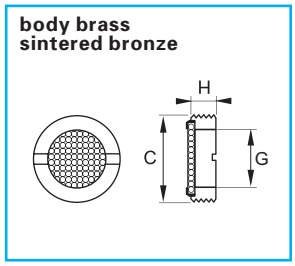
body nickel-plated brass sintered bronze



C		G	L	L1	kg
4	0671 04 00	13	41,5	24,5	0,015
6	0671 06 00	15	48	29	0,023
8	0671 08 00	15	49,5	29,5	0,024
10	0671 10 00	19,5	68	43,5	0,054
12	0671 12 00	20	68,5	43	0,055

0677 silencer, miniature, BSP parallel

body brass sintered bronze



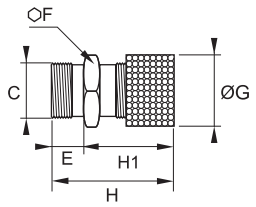
C		G	H	kg
G1/8	0677 00 10	6	6	0,002
G1/4	0677 00 13	8	6	0,004
G3/8	0677 00 17	11	7	0,007
G1/2	0677 00 21	14	8	0,012
G3/4	0677 00 27	19	11	0,023
G1"	0677 00 34	25	10	0,040

Technical specification of silencers :

- **Working pressure :** sintered bronze: 12 bar
  polyethylene: 10 bar
- **Working temperature :** sintered bronze: -20° to 150°C
  polyethylene: -10° to +80°C

0672 flow control silencer, male BSP parallel

body brass
silencer-sintered bronze

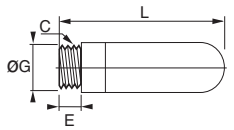


C		E	F	G	H mini	H maxi	H1 maxi	kg
G1/8	0672 00 10	8	14	14	25	29	21	0,017
G1/4	0672 00 13	8	17	17	28	32	24	0,028
G3/8	0672 00 17	10	22	22	30	38	28	0,055
G1/2	0672 00 21	12	27	27	40	49	37	0,094

	technical characteristics						
	flow (Nl/min at 6 bar)						noise level (dBA at 6 bar and 350 Nl/min
	number of turns						
	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

0674 threaded silencer, male BSP parallel and M5

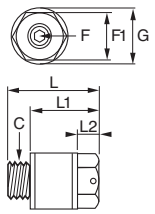
polyethylene body
plastic thread



C		E	G	L	kg
M5x0,8	0674 00 19	4	6,5	23	0,001
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	0,006
G1/2	0674 00 21	11	23,5	78	0,010
G3/4	0674 00 27	15,5	38,5	131	0,040
G1“	0674 00 34	19,5	49	160	0,050

0676 flow control silencer, male BSP parallel and M5

polyethylene body
plastic thread



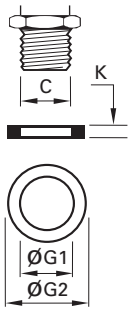
C		F	F1	G	L	L1	L2	kg
M5x0,8	0676 00 19	1,5	8	9,3	16	11	11	0,002
G1/8	0676 00 10	2,5	13	15	20,5	14,5	5	0,002
G1/4	0676 00 13	4	15	18	29	22	7	0,007
G3/8	0676 00 17	6	20	24	38	30	10,5	0,012
G1/2	0676 00 21	8	25	30	50	40	15	0,020

	technical characteristics										
	flow (Nl/min at 6 bar)										noise level (dBA at 6 bar and 350 Nl/min
	number of turns										
	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	0	814	1849	2880	4087	5044	5236	-	-	-	86

Stainless steel silencers can be found on page J6 of this catalogue.

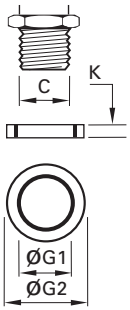
0138 copper washers

DIN 7603
ISO 65061



C			G1	G2	K	kg
6		0138 06 00	6,3	9	1	0,001
8		0138 08 00	8,3	11	1	0,001
10	G1/8	0138 10 00	10,3	13,5	1	0,001
12		0138 12 00	12,3	15,5	1,3	0,001
13	G1/4	0138 13 00	13,5	18	1,3	0,001
14		0138 14 00	14,3	18	1,5	0,001
16		0138 16 00	16,3	20	1,5	0,001
17	G3/8	0138 17 00	17,3	21	1,5	0,001
18		0138 18 00	18,3	22	1,5	0,001
20		0138 20 00	20,3	24	1,5	0,001
21	G1/2	0138 21 00	21,3	26	1,5	0,002
22		0138 22 00	22,3	27	1,5	0,002
24		0138 24 00	24,3	29	2	0,003
26		0138 26 00	26,3	31	2	0,003
27	G3/4	0138 27 00	27,3	32	2	0,005
30		0138 30 00	30,3	36	2	0,004
33	G1“	0138 33 00	33,5	39	2	0,006
36		0138 36 00	36,3	42	2	0,006
39		0138 39 00	39,3	44	2	0,006
42	G1“1/4	0138 42 00	42,5	49	2	0,007
45		0138 45 00	45,3	52	2	0,008
48	G1“1/2	0138 48 00	48,3	55	2	0,008
52		0138 52 00	52,3	60	2	0,011
60	G2“	0138 60 00	60	68	2,5	0,014

0137 bonded seal



C			G1	G2	K	kg
10	G1/8	0137 10 00	10,7	17	1,5	0,002
12		0137 12 00	12,7	19	1,5	0,002
	G1/4	0137 13 00	13,7	20,6	2,1	0,002
14		0137 14 00	14,7	21	1,5	0,002
16		0137 16 00	16,7	23	1,5	0,003
	G3/8	0137 17 00	17,4	23,7	1,5	0,003
18		0137 18 00	18,7	27	2	0,004
20		0137 20 00	20,7	29	2	0,005
	G1/2	0137 21 00	21,5	28,6	2,5	0,005
22		0137 22 00	22,7	31	2	0,005
24		0137 24 00	24,7	33	2	0,005
27	G3/4	0137 27 00	27	35,3	2	0,006
30		0137 30 00	30,7	39	2	0,006
33	G1“	0137 33 00	33,7	42	2	0,007
39		0137 39 00	40	51	2,5	0,012
42	G1“1/4	0137 42 00	43	54	2,5	0,014
45		0137 45 00	46	57	2,5	0,014
48	G1“1/2	0137 48 00	49	60	2,5	0,016
60	G2“	0137 60 00	60,7	73	3	0,027

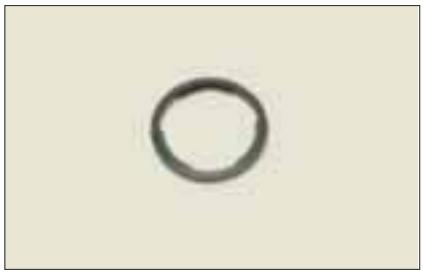
Note: to use these bonded seals successfully it is necessary to spot face around the female thread to provide a sealing “land“. The diameter should be 0.3 mm to 0.5 mm greater than the external diameter of the seal. The surface finish of the thread should not exceed 12µ.

0605 fluoropolymer tape

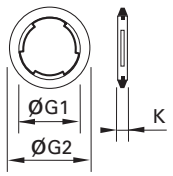
	kg
0605 12 12	0,011

- Can be used for temperatures from - 250°C to +260°C
- Non toxic and waterproof
- Chemically inert and resistant to gases, acids, solvents, hydrocarbons, oils, alkalines, steam etc.
- Self lubricating
- Used to facilitate the preparation of leak free thread joints
- Supplied on a reel
- Length = 12 m; Width = 12.7 mm; Thickness 0.08 mm

0602 captive sealing washer



engineering grade polymer

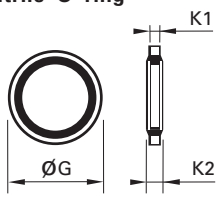


C		G1	G2	K	kg
M5x0,8	0602 29 93 15	5,2	7,8	1,5	0,001
G1/8	0602 23 10 20	10,3	14	2	0,001
G1/4	0602 23 11 20	13,7	17,5	2	0,001
G3/8	0602 23 12 20	17,2	21	2	0,001
G1/2	0602 23 13 20	21,5	25,5	2,5	0,001
G3/4	0602 27 32 20	27	32	2,5	0,001
G1"	0602 30 60 20	33,8	39	3	0,001

Maximum allowable working pressure : 20 bar

0139 bi-material captive sealing washer

bichromated zinc-plated steel nitrile 'O' ring

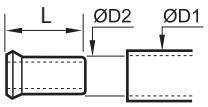


C		G	K1	K2	kg
G1/8	0139 10 00	14	1	1,8	0,001
G1/4	0139 13 00	17	1	1,8	0,001
G3/8	0139 17 00	22	1,3	2,1	0,001
G1/2	0139 21 00	26	1,6	2,4	0,002
G3/4	0139 27 00	32	1,6	2,4	0,002
G1"	0139 34 00	39,5	3,5	2,6	0,002

Maximum allowable working pressure : 250 bar

0127 ferrule for nylon and polyurethane tubing

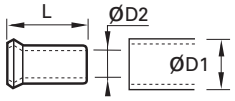
brass



ØD1	ØD2		L	kg
4	2	0127 04 00	11	0,001
4	2,7	0127 04 27	11	0,001
5	3	0127 05 03	11	0,001
5	3,3	0127 05 00	11,5	0,001
6	4	0127 06 00	11,5	0,001
8	5,5	0127 08 55	14	0,001
8	6	0127 08 00	14	0,001
10	7	0127 10 07	18	0,002
10	7,5	0127 10 75	18	0,002
10	8	0127 10 00	18	0,002
12	8	0127 12 08	18	0,002
12	9	0127 12 09	18	0,002
12	10	0127 12 00	18	0,002
14	11	0127 14 11	18	0,003
14	12	0127 14 00	18	0,003
15	12	0127 15 12	18	0,003
16	13	0127 16 13	18	0,003
18	14	0127 18 14	19,5	0,004
20	15	0127 20 15	20,5	0,004
22	16	0127 22 16	21	0,005
25	19	0127 25 19	25	0,005

1827 ferrule for fluoropolymer and polyethylene tubing

stainless steel



ØD2	ØD1		L	kg
4	6	1827 06 00	11,5	0,001
6	8	1827 08 00	14	0,001
8	10	1827 10 00	18	0,002
10	12	1827 12 00	18	0,002
14	16	1827 16 00	18	0,003

This ferrule is necessary when using fluoropolymer tube FEP at all temperatures compatible with the fitting/tube assembly.

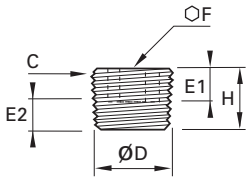
Technical specification of captive sealing washer 0602

Tightening torque

	M5x0,8	G1/8"	G1/4"	G3/8"	G1/2"	G3/4	G1"
minimum torque N/m x 10	0,06	0,08	0,3	0,5	1	1,2	1,9
minimum torque N/m x 10	0,16	0,8	1,2	3	3,5	6	9

0205 internal hexagon head BSP taper and NPT thread

brass



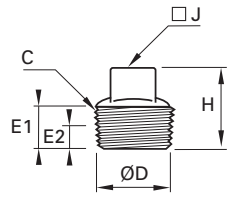
C BSP		ØD	E1	E2 mini	E2 maxi	F	H	kg
R1/8	0205 10 00	9,728	6	3,1	4,9	5	8	0,004
R1/4	0205 13 00	13,157	8	4,7	7,3	6	10	0,008
R3/8	0205 17 00	16,662	8	5,1	7,7	8	11	0,014
R1/2	0205 21 00	20,955	8	6,4	10	10	13	0,027
R3/4	0205 27 00	26,441	11	7,7	11,3	14	17	0,053
R1"	0205 34 00	33,249	13	8,1	12,7	17	19	0,092
R1"1/4	0205 42 00	41,910	14	10,4	15	22	22	0,183

C NPT		ØD	E1	E2 mini	E2 maxi	F	H	kg
1/8	0205 11 00	10,242	6	3,2	5	5	8	0,004
1/4	0205 14 00	13,616	8	4,4	7,2	6	10	0,008
3/8	0205 18 00	17,055	8	4,7	7,5	8	11	0,014
1/2	0205 22 00	21,223	8	6,3	9,9	10	13	0,026

*For BSP taper plus 1/2" - 1 1/2" inclusive - conforms generally to standard DIN 906 - thread standard EN 10226-1

0209 square headed BSP taper thread

brass

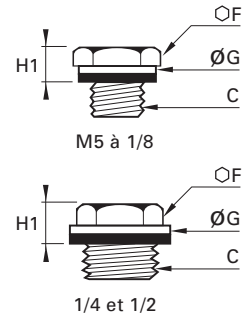


C		ØD	E1	E2 mini	E2 maxi	H	J	kg
R1/8	0209 10 00	9,728	6	3,1	4,9	16	6	0,007
R1/4	0209 13 00	13,157	8	4,7	7,3	18	8	0,014
R3/8	0209 17 00	16,662	10	5,1	7,7	20	10	0,026
R1/2	0209 21 00	20,955	11	6,4	10	22	13	0,047
R3/4	0209 27 00	26,441	15	7,7	11,3	28	17	0,072
R1"	0209 34 00	33,249	18	8,1	12,7	32	19	0,159

Conforms generally to standard DIN 906
thread standard EN 10226-1

0220 hexagon headed BSP parallel and M5 thread

brass with pre-assembled nylon washer



M5: with screwdriver slot for tightening

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	0,026
G1/2	0220 21 00	22	27	10	0,040

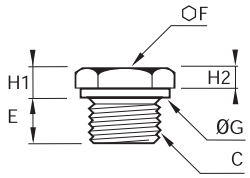
Maximum allowable working pressure = 20 bar
Part number with suffix 99, maximum allowable working pressure = 250 bar
example : 0220 19 00 99

Conforms generally to standard BNA 229 (with the exception of M5 model)
metric thread ISO - standard ISO 228-1
parallel BSP threads - standard NFE 03-054

This catalogue includes details of a range of **stainless steel accessories and plugs**. Please refer to the **section J**.

0200 hexagon headed metric and BSP parallel thread

brass

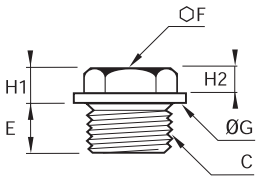


C		E	F	G	H1	H2	kg
G1/8	0200 10 00	7	14	13,7	5,5	4	0,012
G1/4	0200 13 00	8,5	17	16,7	5,5	4	0,019

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	0,012
M12x1	0200 65 00	9	17	17	5	4,5	0,018
M12x1,25	0200 66 00	9	17	17	5	4,5	0,018

0201 hexagon headed with collar, parallel and metric

brass

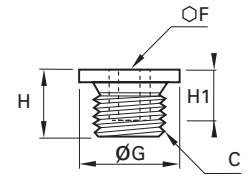


C		E	F	G	H1	H2	kg
G3/8	0201 17 00	10	17	21,7	6,5	4,5	0,026
G1/2	0201 21 00	10	22	26,7	7,5	5	0,040
G3/4	0201 27 00	11	22	31,7	8,5	6	0,044
G1"	0201 34 00	11	27	39,7	8,5	6	0,080
G1"1/4	0201 42 00	12	30	49,7	10	7	0,165

C		E	F	G	H1	H2	kg
M16x1,5	0201 75 00	10	17	22	6,5	4,5	0,024
M18x1,5	0201 78 00	10	17	24	7	5	0,027
M20x1,5	0201 80 00	10	17	26	7,5	5	0,028
M22x1,5	0201 82 00	10	22	30	7,5	5	0,041
M24x1,5	0201 83 00	10	22	32	7,5	5	0,041
M24x2	0201 92 00	10	22	32	7,5	5	0,040
M30x2	0201 88 00	11	27	38	8,5	6	0,070

0202 internal hexagon headed with collar, metric

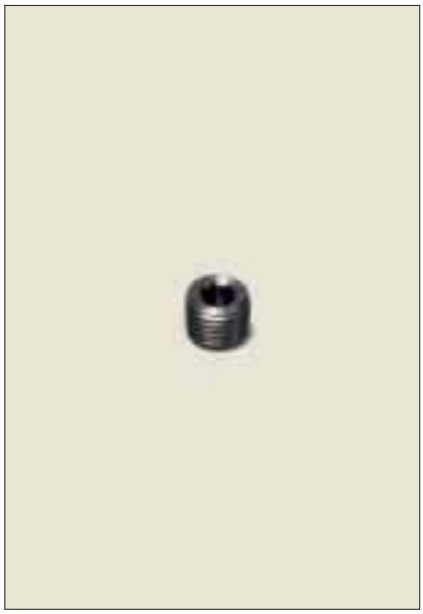
brass



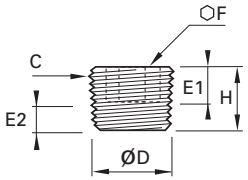
C		E	F	G	H	H1	kg
M12X1	* 0202 65 00	9	6	17	11	8	0,008
M12X1,25	* 0202 66 00	9	6	17	11	8	0,009
M14X1,5	* 0202 71 00	10	6	19	13	10	0,015
M16X1,5	* 0202 75 00	10	8	22	13	10	0,019
M18X1,5	* 0202 78 00	10	10	24	13	10	0,022
M20X1,5	**0202 80 00	10	12	26	13	10	0,027
M22X1,5	**0202 82 00	10	12	30	13	10	0,036
M27X2	**0202 86 00	11	17	35	15	11	0,053
M30X2	**0202 88 00	11	19	38	15	11	0,071

parallel metric threads ISO standards NFE 03-054

0206 internal hexagon headed BSP taper and NPT thread



untreated steel

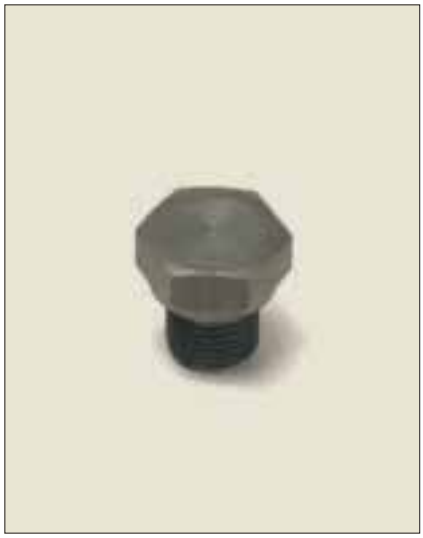


C BSP		ØD	E1	E1 mini	E2 maxi	F	H	kg
R1/8	0206 10 00	9,728	6	3,1	4,9	5	8	0,003
R1/4	0206 13 00	13,157	8	4,7	7,3	6	10	0,007
R3/8	0206 17 00	16,662	8	5,1	7,7	8	11	0,012
R1/2	0206 21 00	20,955	8	6,4	10	10	13	0,024
R3/4	0206 27 00	26,441	11	7,7	11,3	14	17	0,048
R1"	0206 34 00	33,249	13	8,1	12,7	17	19	0,086
R1"1/4	0206 42 00	41,910	14	10,4	15	22	22	0,162
R1"1/2	0206 49 00	47,803	14	10,4	15	24	22	0,222

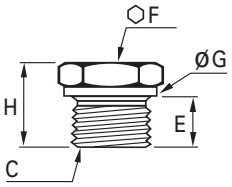
C NPT		ØD	E1	E1 mini	E2 maxi	F	H	kg
1/16	0206 08 00	7,800	6	3,8	6,4	4	7	0,002
1/8	0206 11 00	10,242	6	3,2	5	5	8	0,003
1/4	0206 14 00	13,616	8	4,4	7,2	6	10	0,007
3/8	0206 18 00	17,055	8	4,7	7,5	8	11	0,012
1/2	0206 22 00	21,223	8	6,3	9,9	10	13	0,024
3/4	0206 28 00	26,568	11	6,8	10,4	14	17	0,047
1"	0206 35 00	33,227	13	8	12,4	17	19	0,083

**For BSP taper plus 1/2" - 1 1/2" inclusive - conforms generally to standard DIN906 – thread standard EN 10226-1*

0210 hexagon headed metric and BSP parallel thread



untreated steel



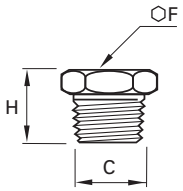
C		E	F	G	H	kg
G1/8	0210 10 00	8	14	14	15	0,013
G1/4	0210 13 00	12	19	18	21	0,031
G3/8	0210 17 00	12	22	22	21	0,046
G1/2	0210 21 00	14	27	26	24	0,078
G3/4	0210 27 00	16	32	32	27	0,133
G1"	0210 34 00	18	41	39	33	0,269
G1"1/4	0210 42 00	20	50	49	35	0,436

C		E	F	G	H	kg
M8x1,25	0210 57 00	8	14	12	15	0,011
M10x1	0210 60 00	8	14	14	15	0,013
M12x1,25	0210 66 00	10	17	17	18	0,021
M14x1,25	0210 70 00	11	19	19	20	0,032

Profile of head undercut conforms to DIN 3852-1 form D/E
Parallel threads - standard ISO 228-1
Parallel metric BSP threads - standard NFE 03-054

0216 hexagon headed BSP taper and NPT thread

untreated steel

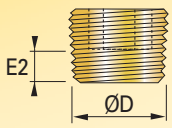


C BSP		F	H	kg
R1/8	0216 10 00	13	16	0,012
R1/4	0216 13 00	17	19	0,024
R3/8	0216 17 00	19	21	0,038
R1/2	0216 21 00	22	23	0,060

C NPT		F	H	kg
1/8	0216 11 00	13	16	0,013
1/4	0216 14 00	17	19	0,024
3/8	0216 18 00	19	21	0,039
1/2	0216 22 00	22	23	0,060

BSP taper thread conforms to standard 10226-1

Definition of dimensions ØD and E2 for product **0206**



D = diameter of gauge drawing

E2 = maxi. and mini. length of gauge diameter (D)

LF 3900 / LF 3800 stainless steel push-in fittings

legris connectic

principle of system LF 3900 / LF 3800
stainless steel push-in fittings

The **LF 3900 / LF 3800** range extends the advantages of push-in fittings - instant connection and disconnection – to a wider range of industrial applications.
All stainless steel construction with FKM «O» ring seals, LF 3900 / LF 3800 offers excellent resistance to aggressive environments and fluids ;
To suit most applications, models are available :
- for metric tubing with BSP taper thread, BSP parallel thread and metric or NPT threads;
- for imperial o.d. tubing with NPT thread.

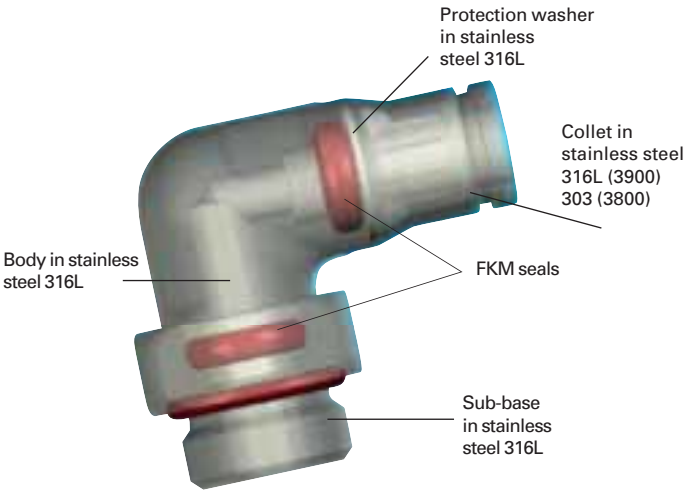
LF 3900 and LF 3800 fittings conform to the following standards :

All materials in contact with food are in compliance with the American Food and Drug Administration and European directive 1935/2004/CE.

RoHs
Reduction of Hazardous Substances – 002/95/CE.

technical specification

The working specification depends on the type and wall thickness of the tube, the type of fluid, fluid temperature, and ambient temperature.



All items in the LF 3800 range are SILICONE FREE

working pressure	Maximum 30 bar depending on tubing used (see section on **Legris** tubing)
working temperature	from -20° to 120°C* depending on the type and size of the tubing. * For higher temperatures (up to 150°C), please do not hesitate to contact us.
compatible fluids	all fluids compatible with fitting and tubing material.
material specification	Body and base : stainless steel 316L Washer : stainless steel 316 L Collet : - stainless steel 316L (LF 3900) - stainless steel 303 (LF 3800) «O» ring : FKM

Maximum tightening torque for BSPP threads with O-ring	**Thread**	**Maximum tightening torque**	**Tightening torque for bulkhead washer**	**Diameter**	**Mini tightening torque**	**Maxi tightening**
	M5	0.16 daN.m		4 mm	0.5 daN.m	0.9 daN.m
	G1/8	0.8 daN.m		6 mm	0.5 daN.m	0.9 daN.m
	G1/4	1.2 daN.m		8 mm	0.6 daN.m	1 daN.m
	G3/8	3 daN.m		10 mm	0.6 daN.m	1 daN.m
	G1/2	3.5 daN.m		12 mm	0.6 daN.m	1 daN.m

advantages of the LF 3900 / LF 3800 system

resistance to aggressive environments and fluids

Two product ranges for demanding conditions of use :

- LF 3900 : a range of instant fittings in full 316L stainless steel, with FKM seals, for optimum resistance to aggressive environments.
- LF 3800 : a range of instant fittings in 316L stainless steel with 303 (collet) and FKM seals, for elemental chemical resistance and a competitive price positioning.

reliable and robust design

- proven gripping technology :
  - the collet guarantees excellent gripping and improved pull-out forces for soft tubing.
  - the collet is resistant to mechanical shocks and prevents whiplash, in particular when using metallic (pre-grooved) tubing.
- simple and reliable design
- FKM seal resistant to the majority of aggressive chemicals.
- sealed bulkhead connectors (IP51) enabling complete protection against detrimental ingress in food and non food zone areas.

industrial applications

LF 3900 and 3800 instant fittings can be used :

- for permanent contact with foodstuffs
- in saline environments
- for external applications
- for industrial cleaning with use of detergents
- when components need to be frequently sterilized

These fittings are designed for industries such as :

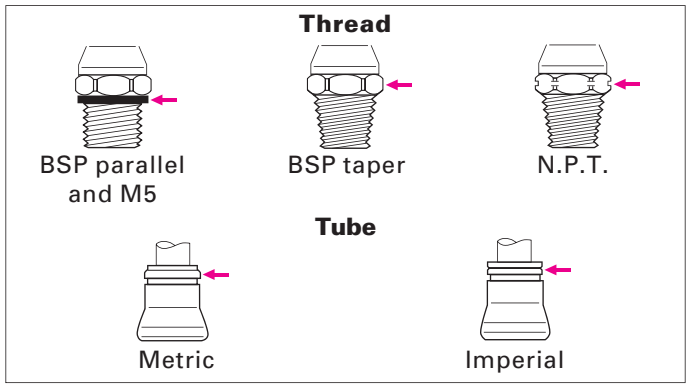
- food process
- medical and pharmaceutical industries
- chemical and petrochemical industries
- paper industry

tried and tested technology

- instant manual connection and disconnection – no tools required
- full bore, without pressure drop
- automatic seal

hygienic design

- nutriment grade materials and USDA NSF H1 grease conforming to FDA and 1934/2004 CE standards, permitting permanent contact with foodstuffs.
- a permissible all metal product, avoiding the risk of non-detection of misplaced components.
- a very smooth surface design aimed at reducing retention zones for safe and easy cleaning.



the largest range on the market

- 19 different product body shapes, diameters from 4mm to 12 mm, threads from M5 to 1/2
- 2 thread types: taper and parallel

Our production process includes individual unit quality control and dating, for all LF 3900 / LF 3800 push-in fittings, in order to guarantee their quality and traceability.

Identification

The part numbers have been chosen by a method of mnemonics. Each LF 3900 / 3800 fitting is identified by :

- the product type
- the o.d. of the tube
- the thread code or second tube o.d.

Example

3809 06 13

Product type — tube o.d. — thread code or second tube o.d.

the complete range of LF 3900 / LF 3800 push-in fittings

threaded fittings for metric tubing

3905/3805
taper
Page F6

3805
NPT
Page F6

3901/3801
parallel/metric
Page F6

3921/3821
taper
Page F6

3821
NPT
Page F6

3909/3809
taper
Page F7

3809
NPT
Page F7

3999/3899
metric
Page F7

3989/3889
taper
Page F7

3889
NPT
Page F7

3903/3803
taper
Page F8

3803
NPT
Page F8

3908/3808
taper
Page F8

3808
NPT
Page F8

3900/3800
Page F8

tube-to-tube fittings for metric tubing

3906/3806
Page F9

3916/3816
Page F9

3902/3802
Page F9

3904/3804
Page F9

3966/3866
Page F9

threaded fittings for imperial tubing

3805
NPT
Page F10

3821
NPT
Page F10

3889
NPT
Page F10

tube-to-tube fittings for imperial tubing

3806
Page F11

3816
Page F11

3802
Page F11

3804
Page F11

accessories

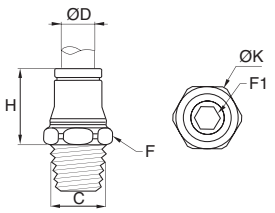
3800
Page F11

Please refer to section K for Legris fluoropolymer FEP tubing.

threaded fittings for metric tube

3905/3805 male stud, BSP taper

stainless steel

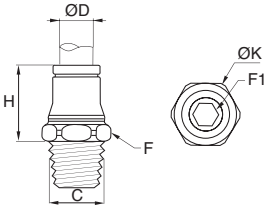


this fitting has an internal hexagon for assembly by allen key

ØD	C			F	F1	H	K	kg
4	R1/8	3905 04 10	3805 04 10	10	3	14,5	11	0,008
4	R1/4	3905 04 13	3805 04 13	14	3	14,5	15	0,016
6	R1/8	3905 06 10	3805 06 10	13	4	18	14	0,012
6	R1/4	3905 06 13	3805 06 13	14	4	16,5	15	0,018
8	R1/8	3905 08 10	3805 08 10	15	5	20,5	16,5	0,014
8	R1/4	3905 08 13	3805 08 13	15	6	19	16,5	0,019
8	R3/8	3905 08 17	3805 08 17	17	6	19	18,5	0,026
10	R1/4	3905 10 13	3805 10 13	19	6	24	21	0,030
10	R3/8	3905 10 17	3805 10 17	19	7	22,5	21	0,035
12	R1/4	3905 12 13	3805 12 13	22	7	25	24	0,036
12	R3/8	3905 12 17	3805 12 17	22	8	24	24	0,040
12	R1/2	3905 12 21	3805 12 21	22	10	23	24	0,049

3805 male stud, NPT

stainless steel

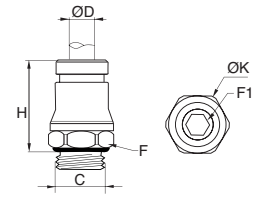


this fitting has an internal hexagon for assembly by allen key

ØD	C		F	F1	H	K	kg
4	1/8	3805 04 11	11	3	14,5	12	0,008
6	1/8	3805 06 11	13	4	18	14	0,012
6	1/4	3805 06 14	14	4	16,5	15	0,016
8	1/8	3805 08 11	15	5	19	16,5	0,016
8	1/4	3805 08 14	15	6	18	16,5	0,020
10	1/4	3805 10 14	19	6	24	21	0,030
10	3/8	3805 10 18	19	7	22,5	21	0,032
12	1/4	3805 12 14	22	7	25	24	0,038
12	3/8	3805 12 18	22	8	24	24	0,042
12	1/2	3805 12 22	22	10	23	24	0,048

3901/3801 male stud, BSP parallel and M5

stainless steel with fluoropolymer sealing washer

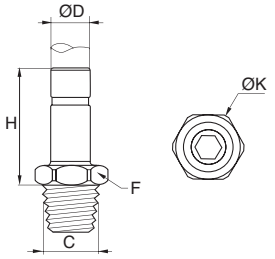


this fitting has an internal hexagon for assembly by allen key

ØD	C			F	F1	H	K	kg
4	M5x0.8	3901 04 19	3801 04 19	10	2.5	16	11	0,004
4	G1/8	3901 04 10	3801 04 10	13	3	15	14	0.010
6	M5x0.8	3901 06 19	3801 06 19	13	2.5	20.5	14	0.096
6	G1/8	3901 06 10	3801 06 13	13	4	18	14	0.011
6	G1/4	3901 06 13	3801 06 13	17	4	18	18.5	0,016
8	G1/8	3901 08 10	3801 08 10	15	5	19	16.5	0.014
8	G1/4	3901 08 13	3801 08 13	17	5	20.5	18.5	0.019
8	G3/8	3901 08 17	3801 08 17	21	6	20	23	0.029
10	G1/4	3901 10 13	3801 10 13	18	7	25	19.5	0.024
10	G3/8	3901 10 17	3801 10 17	21	7	25	23	0.036
12	G1/4	3901 12 13	3801 12 13	21	7	27	23	0.031
12	G3/8	3901 12 17	3901 12 17	21	9	26.5	23	0.035

3921/3821 male stud standpipe, BSP taper

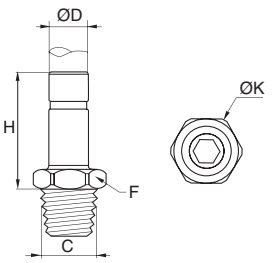
stainless steel



ØD	C			F	H	kg
4	R1/8	3921 04 10	3821 04 10	10	21	0,006
6	R1/8	3921 06 10	3821 06 10	10	23	0,008
6	R1/4	3921 06 13	3821 06 13	14	24	0,017
8	R1/8	3921 08 10	3821 08 10	10	24	0,017
8	R1/4	3921 08 13	3821 08 13	14	25	0,020
10	R1/4	3921 10 13	3821 10 13	14	30	0,023
10	R3/8	3921 10 17	3821 10 17	17	30	0,023
12	R1/4	3921 12 13	3821 12 13	14	31	0,025
12	R3/8	3921 12 17	3821 12 17	17	31	0,031
12	R1/2	3921 12 21	3821 12 21	22	32	0,052

3821 male stud standpipe, NPT

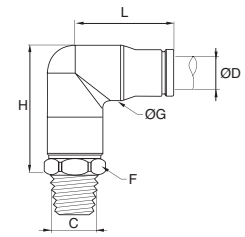
stainless steel



ØD	C		K	F	H	kg
4	1/8	3821 04 11	12	11	21	0,006
6	1/8	3821 06 11	12	11	23	0,008
6	1/4	3821 06 14	15	14	24	0,016
8	1/8	3821 08 11	15	14	24	0,010
8	1/4	3821 08 14	15	14	25	0,016
10	1/4	3821 10 14	15	14	30	0,016
10	3/8	3821 10 18	18,5	17	30	0,022
12	1/4	3821 12 14	15	14	31	0,022
12	3/8	3821 12 18	18,5	17	31	0,026
12	1/2	3821 12 22	24	22	32	0,052

3909/3809 male stud elbow, BSP taper

stainless steel

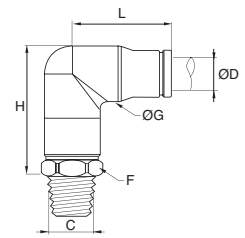


this fitting orientates for positioning purposes

ØD	C			F	G	H	L	kg
4	R1/8	3909 04 10	3809 04 10	10	11	25	19	0,021
4	R1/4	3909 04 13	3809 04 13	14	11	26	19	0,028
6	R1/8	3909 06 10	3809 06 10	13	12	30	24	0,031
6	R1/4	3909 06 13	3809 06 13	14	12	30	24	0,037
8	R1/8	3909 08 10	3809 08 10	14	14,5	34	24,9	0,040
8	R1/4	3909 08 10	3809 08 13	14	14,5	34	24,9	0,047
10	R1/4	3909 10 13	3809 10 13	19	17,5	39	31	0,068
10	R3/8	3909 10 17	3809 10 17	19	17,5	39	31	0,090

3809 male stud elbow, NPT

stainless steel

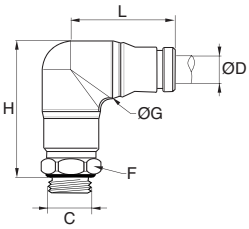


this fitting orientates for positioning purposes

ØD	C		F	G	H	L	kg
4	1/8	3809 04 11	11	10	25,5	18,5	0,016
6	1/8	3809 06 11	13	12,5	29	22,5	0,026
6	1/4	3809 06 14	14	12,5	29	22,5	0,030
8	1/8	3809 08 11	14	15	34	24	0,040
8	1/4	3809 08 14	14	15	34	24	0,044
10	1/4	3809 10 14	19	17,5	39,5	30	0,066
10	3/8	3809 10 18	19	17,5	39,5	30	0,066

3999/3899 male stud elbow, BSP parallel and metric thread

stainless steel with fluoro-polymer sealing washer



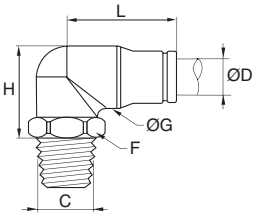
this fitting orientates for positioning purposes

ØD	C			F	G	H	L	kg
4	M5x0.8	3999 04 19	3899 04 19	10	10	27	19	0,017
4	G1/8	3999 04 10	3899 04 10	13	10	27	19	0,021
4	G1/4	3999 04 13	3899 04 13	17	10	27	19	0,028
6	M5x0.8	3999 06 19	3899 06 19	13	12	33	24	0,031
6	G1/8	3999 06 10	3899 06 10	13	12	33	24	0,031
6	G1/4	3999 06 13	3899 06 13	17	12	32	24	0,036
8	G1/8	3999 08 10	3899 08 10	14	15	35	25	0,039
8	G1/4	3999 08 13	3899 08 13	17	15	35	25	0,045
8	G3/8	3999 08 17	3899 08 17	21	15	34,5	25	0,050
10	G1/4	3999 10 13	3899 10 13	18	17	43	31	0,067
10	G3/8	3999 10 17	3899 10 17	21	17	42	31	0,073

3989/3889 compact male stud elbow, BSP taper thread

maximum 20 bar

stainless steel



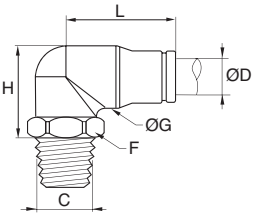
this fitting orientates for positioning purposes

ØD	C			F	G	H	L	kg
4	R1/8	3989 04 10	3889 04 10	13	11	18	19	0,019
4	R1/4	3989 04 13	3889 04 13	14	11	18	19	0,026
6	R1/8	3989 06 10	3889 06 10	13	12	20	24	0,026
6	R1/4	3989 06 13	3889 06 13	14	12	20	23	0,033
8	R1/8	3989 08 10	3889 08 10	13	14,5	24,5	32	0,036
8	R1/4	3989 08 13	3889 08 13	14	14,5	23,5	24	0,040
8	R3/8	3989 08 17	3889 08 17	19	15	23	25	0,053
10	R1/4	3989 10 13	3889 10 13	17	17	27	31	0,060
10	R3/8	3989 10 17	3889 10 17	19	17	26	31	0,064
12	R1/4	3989 12 13	3889 12 13	22	20	31,5	33	0,091
12	R3/8	3989 12 17	3889 12 17	22	20	32,5	33	0,090
12	R1/2	3989 12 21	3889 12 21	22	20	27,5	33	0,095

3889 compact male stud elbow, NPT

maximum 20 bar

stainless steel



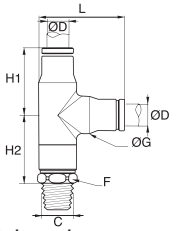
this fitting orientates for positioning purposes

ØD	C		F	G	H	L	kg
4	1/8	3889 04 11	13	10	17,5	19	0,016
6	1/8	3889 06 11	13	12,5	20	22,5	0,022
6	1/4	3889 06 14	14	12,5	20	22,5	0,030
8	1/8	3889 08 11	13	15	25	24	0,028
8	1/4	3889 08 14	14	15	24	24	0,034
10	1/4	3889 10 14	17	17,5	27,5	27,5	0,046
10	3/8	3889 10 18	19	17,5	28,5	26,5	0,056
12	1/4	3889 12 14	22	20	31,5	32,5	0,070
12	3/8	3889 12 18	22	20	32,5	32,5	0,060
12	1/2	3889 12 22	22	20	27,5	32,5	0,084

threaded fittings for metric tubing

3903/3803 male stud run tee, BSP taper

stainless steel

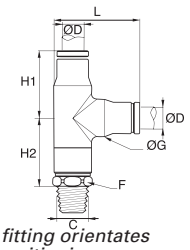


this fitting orientates for positioning purposes

ØD	C			F	G	H1	H2	L	kg
4	R1/8	3903 04 10	3803 04 10	10	11	19	20	24,5	0,025
4	R1/4	3903 04 13	3803 04 13	14	11	19	20	26,5	0,035
6	R1/4	3903 06 10	3803 06 10	13	12	24	24	30	0,038
6	R1/4	3903 06 13	3803 06 13	14	12	24	24	30	0,045
8	R1/8	3903 08 10	3803 08 10	14	14,5	25	27	32	0,051
8	R1/4	3903 08 13	3803 08 13	14	14,5	25	27	32	0,057
8	R3/8	3903 08 17	3803 08 17	19	15	25	26	34,5	0,068
10	R1/4	3903 10 13	3803 10 13	19	17	31	31	39	0,082
10	R3/8	3903 10 17	3803 10 17	19	17	31	31	39	0,083

3803 male stud run tee, NPT

stainless steel

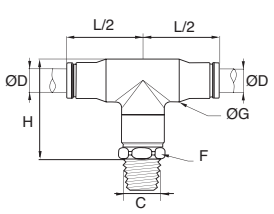


this fitting orientates for positioning purposes

ØD	C		F	G	H1	H2	L	kg
4	1/8	3803 04 11	11	10	19	21	25	0,020
6	1/8	3803 06 11	13	12	21	24	27	0,032
6	1/4	3803 06 14	14	12	21	24	27,5	0,038
8	1/8	3803 08 11	14	15	24	26,5	30,5	0,050
8	1/4	3803 08 14	14	15	24	26,5	30,5	0,054
10	1/4	3803 10 14	19	17,5	29,5	31	37,5	0,084
10	3/8	3803 10 18	19	17,5	29,5	31	37,5	0,084

3908/3808 male stud branch tee, BSP taper

stainless steel

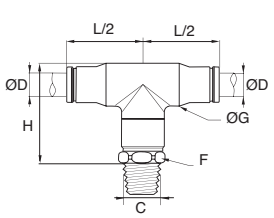


this fitting orientates for positioning purposes

ØD	C			F	G	H	L/2	kg
4	R1/8	3908 04 10	3808 04 10	11	11	25	19	0,025
4	R1/4	3908 04 13	3808 04 13	14	11	26	19	0,035
6	R1/8	3908 06 10	3808 06 10	13	12	30	24	0,038
6	R1/4	3908 06 13	3808 06 13	14	12	30	24	0,045
8	R1/8	3908 08 10	3808 08 10	14	14,5	34	25	0,050
8	R1/4	3908 08 13	3808 08 13	14	14,5	34	25	0,056
8	R3/8	3908 08 17	3808 08 17	19	15	33	25	0,068
10	R1/4	3908 10 13	3808 10 13	19	17	39	31	0,081
10	R3/8	3908 10 17	3808 10 17	19	17	39	31	0,083

3808 male stud branch tee, NPT

stainless steel

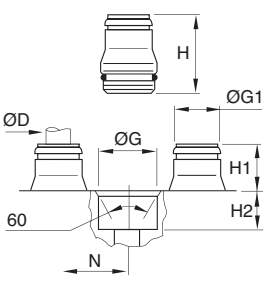


this fitting orientates for positioning purposes

ØD	C		F	G	H	L/2	kg
4	1/8	3808 04 11	11	10	22	19,5	0,020
6	1/8	3808 06 11	13	12,5	30	22,5	0,034
6	1/4	3808 06 14	14	12,5	30	22,5	0,038
8	1/8	3808 08 11	14	15	34	24	0,050
8	1/4	3808 08 14	14	15	34	24	0,054
10	1/4	3808 10 14	19	17,5	40	29,5	0,084
10	3/8	3808 10 18	19	17,5	40	29,5	0,084

3900/3800 cartridge

stainless steel



ØD			G +0,1 -0	G1	H	H1	H2	N	kg
4	3900 04 00	3800 04 00	9,8	8	18	9	8,5	11	0,004
6	3900 06 00	3800 06 00	12,1	10	20	11,5	8,5	13,5	0,008
8	3900 08 00	3800 08 00	14,8	13	22	13,5	8,5	16	0,012
10	3900 10 00	3800 10 00	17,5	15	25,5	15	10,5	20	0,014
12	3900 12 00	3800 12 00	20	17	26	15,5	10,5	22,5	0,021

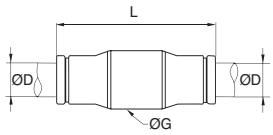
Subject to quantity we can supply cartridge inserts for fitting into various materials, the choice of material used should be discussed with Legris – please consult us.
The use of this cartridge

- eliminates the need to cut threads
- allows compact assembly with reduced height
- provides instant connection and disconnection of the tube

tube-to-tube fittings for metric tubing

3906/3806 equal straight connector

stainless steel

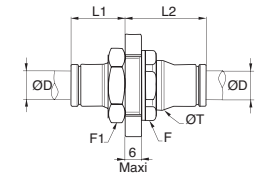


ØD			G	L	kg
4	3906 04 00	3806 04 00	10	30	0,009
6	3906 06 00	3806 06 00	12	37	0,015
8	3906 08 00	3806 08 00	15	38	0,020
10	3906 10 00	3806 10 00	17	49	0,032
12	3906 12 00	3806 12 00	19,5	49,5	0,039

3916/3816 equal bulkhead connector

IP51

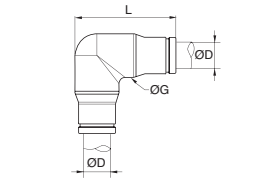
stainless steel



ØD			F	F1	L1	L2	T	kg
4	3916 04 00	3816 04 00	14	13	15	18	13	0,018
6	3916 06 00	3816 06 00	17	17	19	21	15	0,028
8	3916 08 00	3816 08 00	19	19	20	22	17	0,035
10	3916 10 00	3816 10 00	22	22	24	26	21	0,052
12	3916 12 00	3816 12 00	24	24	25	26	23	0,062

3902/3802 equal elbow

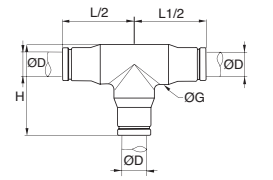
stainless steel



ØD			G	L	kg
4	3902 04 00	3802 04 00	10	24	0,015
6	3902 06 00	3802 06 00	12	30	0,023
8	3902 08 00	3802 08 00	14,5	32,2	0,031
10	3902 10 00	3802 10 00	17	39	0,048
12	3902 12 00	3802 12 00	20	43	0,063

3904/3804 equal tee

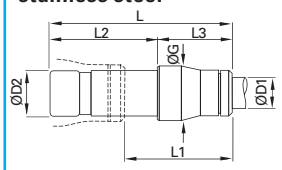
stainless steel



ØD			G	H	L/2	kg
4	3904 04 00	3804 04 00	11	24	19	0,020
6	3904 06 00	3804 06 00	12	30	24	0,031
8	3904 08 00	3804 08 00	14,5	32	25	0,041
10	3904 10 00	3804 10 00	17	39	31	0,062
12	3904 12 00	3804 12 00	20,5	43	33	0,086

3966/3866 push-in reducer

stainless steel



ØD1	ØD2			G	L	L1	L2	L3	kg
4	6	3966 04 06	3866 04 06	10	35	19	19	16	0,008
4	8	3966 04 08	3866 04 08	10	34	17	20	14	0,011
6	8	3966 06 08	3866 06 08	12	42	24	23	19	0,014
6	10	3966 06 10	3866 06 10	12	41	19	25	16	0,018
8	10	3966 08 10	3866 08 10	15	45	22,5	25	20	0,021
8	12	3966 08 12	3866 08 12	15	43	20	26	17	0,023
10	12	3966 10 12	3866 10 12	17	51	23	26	24	0,029

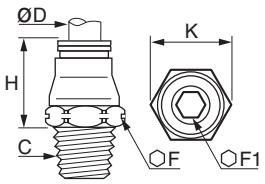
LF 3900/ LF 3800 push-in fittings allow connection with several types of Legris tubing shown in this catalogue :

- **fluoropolymer FEP tube**
  4 to 12 mm o.d.
- **polyethylene tube**
  4 to 14 mm o.d.
- **semi-rigid nylon and flexible polyurethane tube**
  4 to 16 mm o.d. (semi-rigid nylon)
  4 to 14 o.d. (flexible polyurethane)

threaded fittings for imperial tubing

3805 male stud, NPT

stainless steel

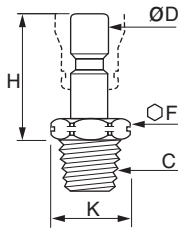


this fitting has an internal hexagon for assembly by allen key

ØD	C		F	F1	H	K	kg
3/16	1/8	3805 55 11	13	3	14,5	14	0,010
3/16	1/4	3805 55 14	14	3	14,5	15	0,016
1/4	1/8	3805 56 11	13	4	18	14	0,012
1/4	1/4	3805 56 14	14	4	17	15	0,018
5/16	1/8	3805 08 11	15	4	19	16,5	0,016
5/16	1/4	3805 08 14	15	6	18	16,5	0,018
3/8	1/4	3805 60 14	19	6	23,5	21	0,028
3/8	3/8	3805 60 18	19	7	22	21	0,034
1/2	1/4	3805 62 14	22	7	25	24	0,040
1/2	3/8	3805 62 18	22	8	24	24	0,042
1/2	1/2	3805 62 22	22	10	23	24	0,050

3821 male stud standpipe, NPT

stainless steel

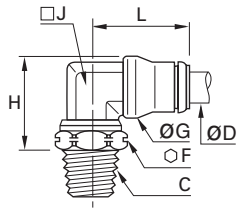


ØD	C		F	H	K	kg
3/16	1/8	3821 55 11	11	21	12	0,008
1/4	1/8	3821 56 11	11	23	12	0,010
1/4	1/4	3821 56 14	14	24	15	0,018
5/16	1/8	3821 08 11	11	24	12	0,012
5/16	1/4	3821 08 14	14	25	15	0,020
3/8	1/4	3821 60 14	14	30	15	0,020
3/8	3/8	3821 60 18	17	30	18,5	0,030
1/2	1/4	3821 62 14	14	31	15	0,032
1/2	3/8	3821 62 18	17	31	18,5	0,038
1/2	1/2	3821 62 22	22	32	24	0,056

3889 compact male stud elbow, NPT

maximum 20 bar

stainless steel

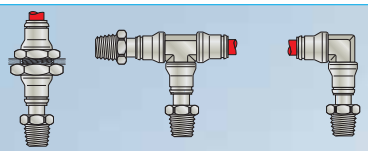


this fitting orientates for positioning purposes

ØD	C		F	G	H	J	L	kg
3/16	1/8	3889 55 11	13	11	18	7	19,5	0,016
3/16	1/4	3889 55 14	14	11	18	7	19,5	0,028
1/4	1/8	3889 56 11	13	12,5	20	9	23	0,022
1/4	1/4	3889 56 14	14	12,5	20	9	23	0,030
5/16	1/8	3889 08 11	13	15	24,5	11	24,5	0,028
5/16	1/4	3889 08 14	14	15	23,5	11	24,5	0,034
3/8	1/4	3889 60 14	17	17	27,5	13	30	0,048
3/8	3/8	3889 60 18	19	17	27,5	13	30	0,058
1/2	1/4	3889 62 14	22	21	32	15	33	0,074
1/2	3/8	3889 62 18	22	21	32,5	15	33	0,072
1/2	1/2	3889 62 22	22	21	28	15	33	0,092

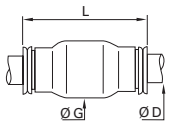
By using the male stud standpipe, Type 3821, as illustrated

- stock of parts may be reduced
- tees and elbows can be fitted where required.



3806 equal straight connector

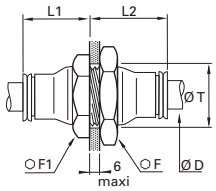
stainless steel



ØD		G	L	kg
3/16	3806 55 00	11	28,5	0,008
1/4	3806 56 00	12,5	34	0,014
5/16	3806 08 00	15	36	0,020
3/8	3806 60 00	17	45	0,034
1/2	3806 62 00	21	47	0,046

3816 equal bulkhead connector

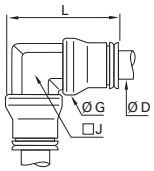
stainless steel



ØD		F	F1	L1	L2	T	kg
3/16	3816 55 00	13	14	15	21	12,5	0,018
1/4	3816 56 00	17	17	17	22,5	14,5	0,028
5/16	3816 08 00	19	19	19	24	16,5	0,036
3/8	3816 60 00	22	22	22	27,5	20,5	0,058
1/2	3816 62 00	27	27	24	29	22,5	0,072

3802 equal elbow

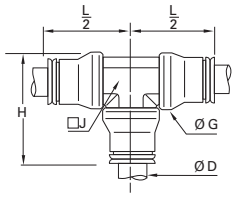
stainless steel



ØD		G	J	L	kg
3/16	3802 55 00	11	7	24,5	0,010
1/4	3802 56 00	12,5	9	28,5	0,016
5/16	3802 08 00	15	11	31,5	0,026
3/8	3802 60 00	17	13	38,5	0,042
1/2	3802 62 00	21	15	42	0,052

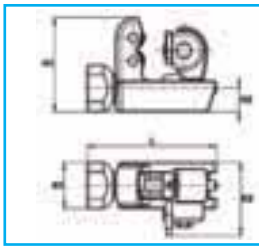
3804 equal tee

stainless steel



ØD		G	H	J	L/2	kg
3/16	3804 55 00	11	25	7	19	0,016
1/4	3804 56 00	12,5	28,5	9	22	0,024
5/16	3804 08 00	15	31,5	11	24	0,036
3/8	3804 60 00	17	38	13	30	0,056
1/2	3804 62 00	21	42	15	32	0,068

3800 pre-grooving tool for stainless steel tubing, metric and imperial



	H1	H2	K1	K2	L	kg
3800 70 00	51	13	25	40	71	0,286

This tool correctly pre-grooves 4-12 mm o.d. and 3/16''-1/2''o.d. stainless steel tube, to ensure that the LF 3800 collet grips the tube securely.

stainless steel function fittings

legris connectic

stainless steel function fittings

In the field of industrial automation, many functions can be controlled by purpose designed fittings. Legris **stainless steel pneumatic function fittings** have been developed to perform such functions. They are also designed for excellent resistance to **aggressive / corrosive** environments and fluids.

allowing fluid to pass in one direction whilst preventing flow in the other direction

non-return valves

Allow fluid to pass in one direction whilst preventing flow in the other. Robust and extremely compact these units are suitable for use as a safety item in all fluids circuits. Ideal for use in severe conditions and aggressive environments.

Models for **all fluid** applications.

regulating flow

flow control regulators

Control the speed of a pneumatic cylinder. Designed without retention zones this flow regulator provides excellent resistance to detergents and enables easy cleaning in a wide variety of application areas.

Models for **pneumatic**, **food, pharmaceutical** and **all fluids applications**.

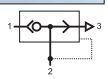
technical tubes

Perfectly suited to stainless steel functions:

- fluoropolymer FEP tubing
- polyethylene tubing
- semi-rigid nylon tubing
- flexible polyurethane tubing

allowing direct exhaust of fluid

quick exhaust valves



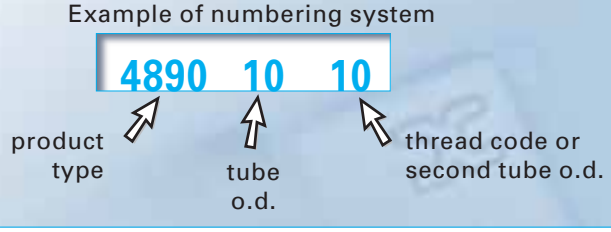
They enable to increase the cylinder rod displacement speed, allowing direct exhaust of compressed air.

Models for **pneumatic** applications.

Identification
Part numbers have been chosen by a method of mnemonics. Each fitting is identified by:

- product type
- the outside diameter of the tube
- the thread code or second tube o.d.

Example of numbering system



Standard range of stainless steel pneumatic function fittings

flow control regulators

7810-7812
Page G4

7820-7822
Page G4

non-return valves

4890
Page G5

4891
Page G5

4892
Page G5

4895
Page G5

quick exhaust valves

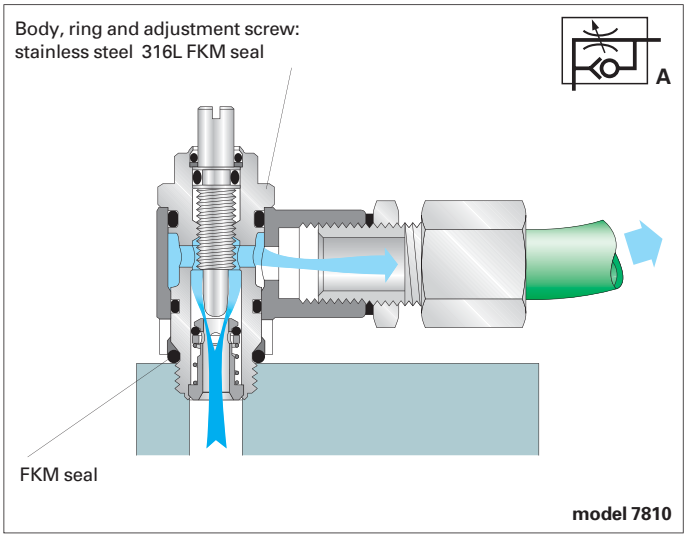
7899
Page G6

You will find stainless function fittings on legris.com

- the online catalogue regularly updated, features the complete range and you can request a quotation from our distributors.
- in the **learning space**, you will find **animated presentations** of these fittings: innovating technology and their **functions**.

www.legris.com

flow control regulators



Stainless steel flow control regulators control the speed of a pneumatic cylinder (models 7810-7812- 7820-7822) or the speed of a chemical of food fluid carried (model 7822: for fluids complatible with FKM and PTFE seals) in aggressive environments or submitted to high mechanical or chemical constraints.
Designed without retention zones, these models are perfectly suitable for food applications or requiring frequent washing of installations.

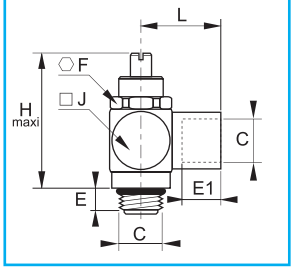
Technical specifications :

- 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

7810-7812 with threaded fitting, BSP parallel and metric

A C

body stainless steel



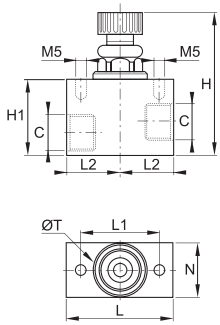
C	exhaust (A)	bi-directional (C)	E	E1	F	H	J	L	kg
M5x0,8	7810 19 19	7812 19 19	4	4	8	24	10	11	0,027
G1/8	7810 10 10	7812 10 10	5	8	13	38	15	17	0,035
G1/4	7810 13 13	7812 13 13	8	12	17	40	18	24	0,048
G3/8	7810 17 17	7812 17 17	7	12	20	53	22	2	0,059
G1/2	7810 21 21	7812 21 21	8	15	23	69	28	31	0,076

for pneumatic applications

7820-7822 in-line, BSP parallel

A C

stainless steel body



C	DN	one way adjustment (A)	H mini	H maxi	H1	L	L1	L2	N	ØT	kg
G1/8	7	7820 00 10	47	52,5	30	40	15	20	20	20	0,178
G1/4	7	7820 00 13	47	52,5	30	40	15	20	20	20	0,168
G3/8	9	7820 00 17	56	65	35	50	18	25	25	25	0,300
G1/2	12	7820 00 21	56	65	35	50	18	25	25	25	0,276

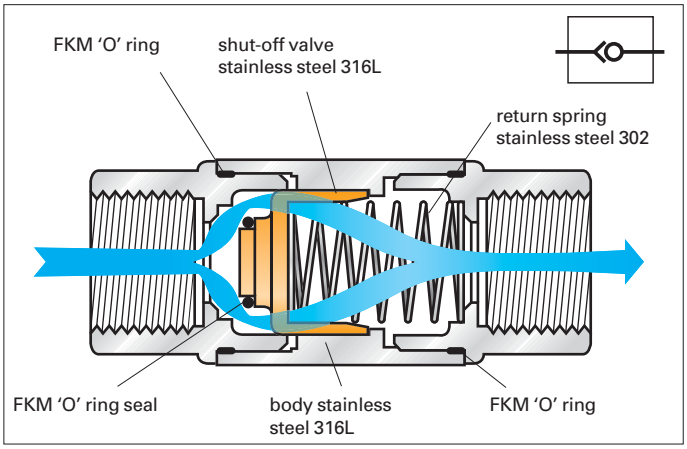
for pneumatic applications

C	DN	bi-directional (C)	H mini	H maxi	H1	L	L1	L2	N	ØT	kg
G1/8	7	7822 00 10	48	52,5	30	40	15	20	20	20	0,180
G1/4	7	7822 00 13	48	52,5	30	40	15	20	20	20	0,170
G3/8	9	7822 00 17	58	65	35	50	18	25	25	20	0,304
G1/2	12	7822 00 21	58	65	35	50	18	25	25	20	0,280

for pneumatic and all fluid applications compatible with the material of seals (FKM and PTFE)

= suitable for food applications

non-return valves, all fluids and stainless steel



Legris stainless steel non-return valves allow fluids to pass in one direction whilst blocking flow in the other direction. Robust and extremely compact, they are suitable for use as a safety item in all fluids circuits. They are ideal for use in severe conditions and in aggressive environments.

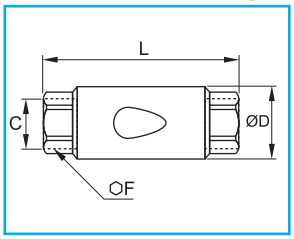
Operation : a stainless steel valve blocks the fluid passage, when the pressure differential is lower than 0,25 bar.

technical specifications :

- working pressure: 0,5 to 40 bar
- working temperature: - 20° to + 180°C

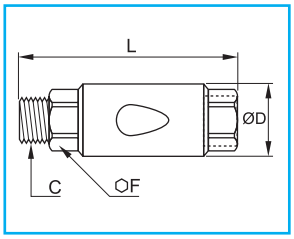
model	water flow at 6 bar	Kv
1/8	18,88 Nl/min	1,60
1/4	19,91 Nl/min	1,69
3/8	35,54 Nl/min	3,01
1/2	36,50 Nl/min	3,10
3/4	65,86 Nl/min	5,59
1"	92,60 Nl/min	7,86

4890 unidirectional, female-female, BSP parallel



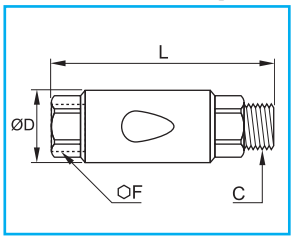
C	DN		ØD	F	L	kg
G1/8	10	4890 10 10	22	17	50	0,084
G1/4	10	4890 13 13	22	17	50	0,074
G3/8	15	4890 17 17	30	22	67	0,182
G1/2	15	4890 21 21	30	24	71	0,196
G3/4	20	4890 27 27	35	32	78	0,288
G1"	25	4890 34 34	42	38	90	0,416

4891 unidirectional, male-female, BSP parallel



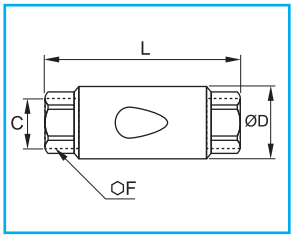
C	DN		ØD	F	L	kg
G1/8	10	4891 10 10	22	17	56	0,086
G1/4	10	4891 13 13	22	17	58	0,082
G3/8	15	4891 17 17	30	22	75	0,190
G1/2	15	4891 21 21	30	24	79	0,280
G3/4	20	4891 27 27	35	32	87	0,302
G1"	25	4891 34 34	42	38	102	0,424

4892 unidirectional, female-male, BSP parallel



C	DN		ØD	F	L	kg
G1/8	10	4892 10 10	22	17	56	0,086
G1/4	10	4892 13 13	22	17	58	0,082
G3/8	15	4892 17 17	30	22	75	0,190
G1/2	15	4892 21 21	30	24	79	0,280
G3/4	20	4892 27 27	35	32	87	0,302
G1"	25	4892 34 34	42	38	102	0,424

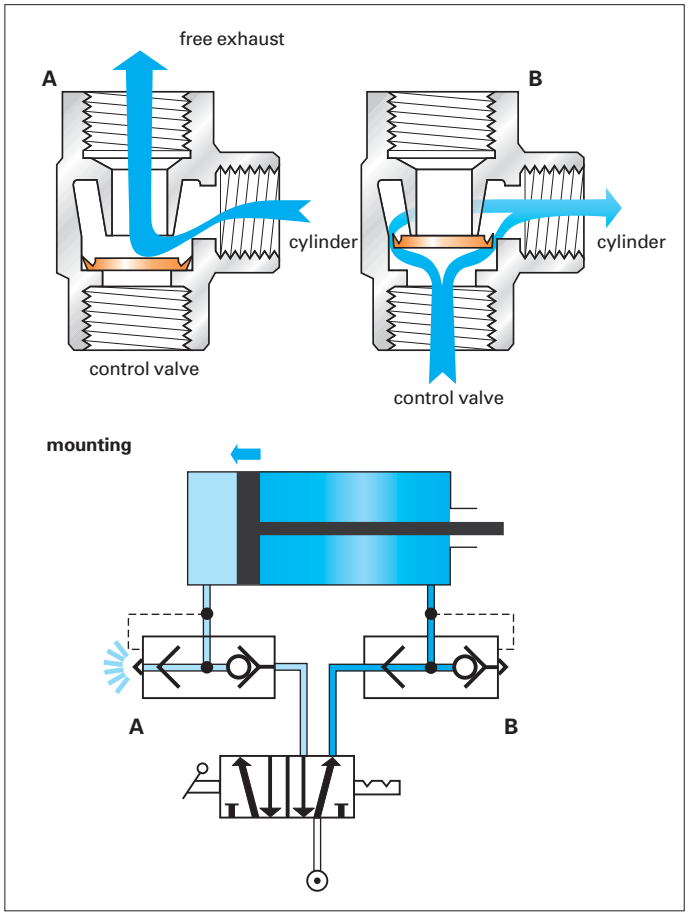
4895 unidirectional, female-female, NPT



C	DN		ØD	F	L	kg
1/8	10	4895 11 11	22	17	50	0,084
1/4	10	4895 14 14	22	17	54	0,080
3/8	15	4895 18 18	30	22	73	0,198
1/2	15	4895 22 22	30	24	77	0,213

On request, we can provide male/female models with NPT threads and other types of seal (nitrile, EPDM, FDA).

quick exhaust valves

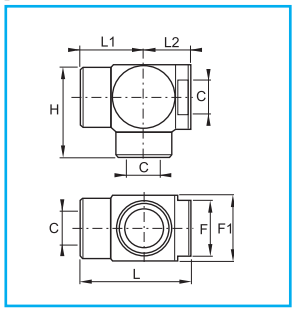


Stainless steel quick exhaust valves enable the increase of cylinder rod displacement speed, allowing **direct exhaust** of compressed air. Thus, they contribute to the reduction of cycle time.

technical specifications :

- working pressure :
  2 to 10 bar
- working temperature :
  models G1/8 and G1/4 : - 10° to + 120°C
  models G3/8 to G1" : - 20° to + 80°C
- material of seal
  G1/8 and G1/4 : FKM
  G3/8 to G1" : polyurethane

7899 double female, BSP parallel



C	DN		F	F1	H	L	L1	L2	kg
G1/8	7	7899 00 10	17	22	31,5	37,5	21	16,5	0,098
G1/4	7	7899 00 13	17	22	31,5	37,5	21	16,5	0,082
G3/8	9	7899 00 17	22	26	37	44,5	25,5	19	0,138
G1/2	12	7899 00 21	27	32	46	54	31	23	0,236
G3/4	18	7899 00 27	38	46	65	79	44	35	0,812
G1"	18	7899 00 34	38	46	65	79	44	35	0,674

Stainless steel function fittings are designed for use with various types of tubing found in this catalogue, see chapter **Technical tubes and hoses**

- **fluoropolymer FEP tubing** from:
  4 to 12 o.d.
- **polyethylene tubing** from:
  4 to 14 o.d.
- **semi-rigid nylon tubing and flexible polyurethane tubing** from:
  4 to 16 o.d. (semi-rigid nylon)
  4 to 14 o.d. (flexible polyurethane)

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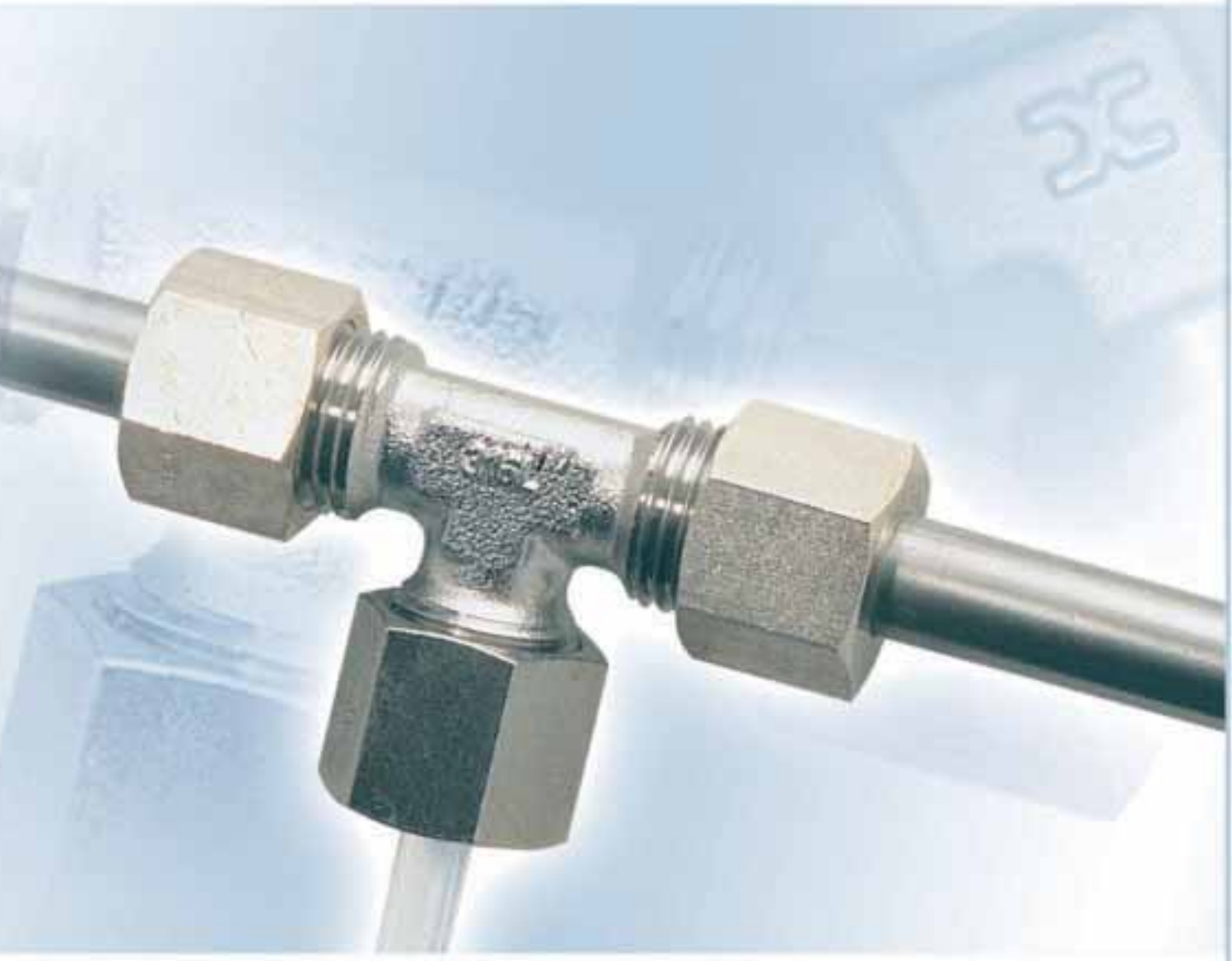
stainless steel compression fittings



legris connectic

principle of stainless steel compression fittings

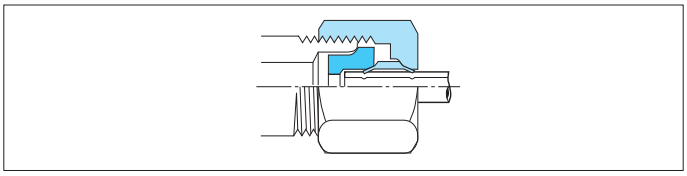
Legris has used its long experience of brass compression fittings to develop a range of **stainless steel compression fittings**.
These stainless steel fittings are resistant to aggressive or corrosive environments and fluids and withstand high temperatures and pressures. They are designed to be used at low and medium pressure and to withstand water hammer and vibration.

assembly

Each stainless steel compression fitting comprises a **body**, an **olive** and a **nut**.

- **Cut** the tube exactly square and **deburr** its outer and inner edges.
- **Slide** the nut onto the tube, without lubricating it.
- **Fit** the olive onto the end of the tube.
- **Push** the tube fully home against the shoulder of the body of the fitting.
- **Tighten** until the nut is hand-tight
- Final tightening with a spanner causes the olive to bite into the tube

The Legris stainless steel compression assembly is now ready for use.



Very slight deformation of the inside of the tube is observed. This is a sign of correct assembly.

technical specifications

These depend on the type and wall thickness of the tube, the type and temperature of the fluid conveyed, together with the component materials of the fitting.

Maximum working pressure	Maximum working pressure 80 bar. Can also be used for industrial vacuum applications.					
Working temperatures	Maximum working temperature is 250° C at working pressure.					
Product compatibility	Very extensive – please refer to page H5					
Constituent materials	stainless steel 316L It is preferable to use tubes of austenitic grades which are cold drawn, seamless, hyper-quenched, descaled and passivated.					
maximum tightening torque with stainless steel tube of 1mm wall thickness	**Ø da N.m**	6 2.0	8 3.0	10 4.0	12 6.5	16 9.5

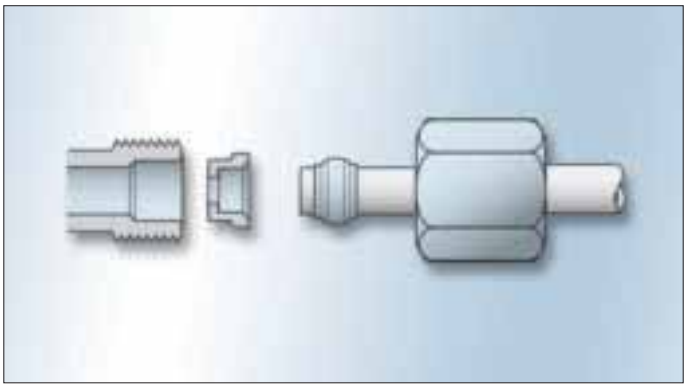
advantages of stainless steel compression fittings

meeting the needs of industry

- all components are stainless steel 316L
- resistant to aggressive and corrosive environments
- resistant to corrosive fluids
- withstands high temperatures and pressures

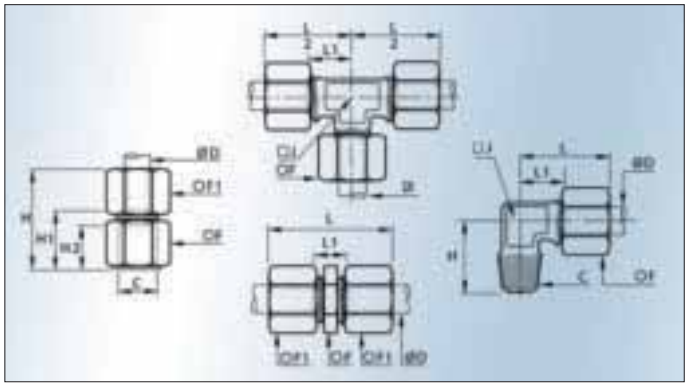
wide range of working pressures

- low pressure
- medium pressure
- 80 bar maximum



extensive and versatile types of connection

- the **Legris original reduction assembly** makes it possible to fit tubes of different diameters with the same fitting body
- can be assembled and disassembled several times
- **double-taper olive** makes it possible:
  - to use various thickness of tube of a similar diameter
  - to use tubes of different materials (stainless steel tubing, fluoropolymer FEP, polyethylene, semi-rigid nylon and polyurethane tubing)



special products

- **Legris** is able to provide special fittings fittings for applications where the standard range cannot be used.

easy to use

- can be assembled quickly and easily because
  - the double-taper olive bites into the tube and centres automatically
  - only low tightening torques are required

the complete range of stainless steel compression fittings

stud couplings

1805
taper
Page H6

1805
NPT
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parallel
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taper
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tube to tube couplings

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stainless steel accessories

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corrosion resistance properties of stainless steel grade 316L

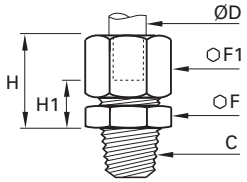
Resists :

Phosphoric acid (all concentrations) up to 40° C.
Sulphuric acid less than 10% and more than 80% at 20° C.
Nitric sulphuric mixtures up to 70° C.
Sulphuric vapours and solutions, both ambient and warm, except for sulphuric acid at dangerous concentrations or temperatures.
Diluted organic acids up to boiling point.
Saline solutions, except chlorine.
Alkaline solutions, all concentrations below 100° C
Marine environment
Food products, organic products, pharmaceuticals.

stud couplings

1805 male stud coupling, BSP taper

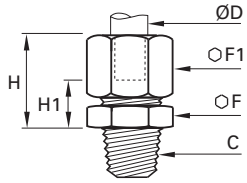
stainless steel



ØD	C		F	F1	H maxi	H1	kg
6	R1/8	1805 06 10	12	13	19,5	7,5	0,018
6	R1/4	1805 06 13	14	13	19,5	7,5	0,026
8	R1/8	1805 08 10	13	14	21	7	0,020
8	R1/4	1805 08 13	14	14	21	7	0,025
10	R1/4	1805 10 13	17	19	25,5	9	0,044
10	R3/8	1805 10 17	17	19	25,5	9	0,050
10	R1/2	1805 10 21	22	19	25,5	10	0,078
12	R1/4	1805 12 13	19	22	26	9	0,056
12	R3/8	1805 12 17	19	22	26	9	0,058
12	R1/2	1805 12 21	22	22	27	10	0,082
16	R3/8	1805 16 17	24	27	28,5	9,5	0,066
16	R1/2	1805 16 21	24	27	28,5	9,5	0,092

1805 male stud coupling, NPT

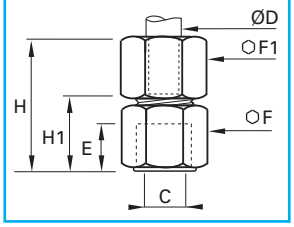
stainless steel



ØD	C		F	F1	H maxi	H1	kg
6	1/8	1805 06 11	12	13	19,5	7,5	0,020
6	1/4	1805 06 14	14	13	19,5	7,5	0,028
6	3/8	1805 06 18	19	13	20,5	8,5	0,034
6	1/2	1805 06 22	22	13	21,5	9,5	0,050
8	1/8	1805 08 11	13	14	21	7	0,022
8	1/4	1805 08 14	14	14	21	7	0,028
10	1/4	1805 10 14	17	19	25,5	9	0,048
10	3/8	1805 10 18	19	19	25,5	9	0,056
10	1/2	1805 10 22	22	19	26,5	10	0,084
12	1/4	1805 12 14	19	22	26	9	0,058
12	3/8	1805 12 18	19	22	26	9	0,062
12	1/2	1805 12 22	22	22	27	10	0,088
16	3/8	1805 16 18	24	27	28,5	9,5	0,068
16	1/2	1805 16 22	24	27	28,5	9,5	0,094

1814 female stud coupling, BSP parallel

stainless steel

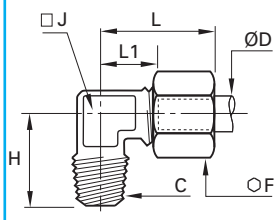


ØD	C		E	F	F1	H maxi	H1	kg
6	G1/8	1814 06 10	7,5	14	13	29	17	0,025
6	G1/4	1814 06 13	11	17	13	29	21	0,034
8	G1/4	1814 08 13	11	17	14	34,5	20,5	0,035
10	G3/8	1814 10 17	11,5	22	19	38,5	22	0,069
10	G1/2	1814 10 21	15	27	19	43	26,5	0,100
12	G3/8	1814 12 17	11,5	22	22	39	22	0,077
12	G1/2	1814 12 21	15	27	22	43,5	26,5	0,109
16	G1/2	1814 16 21	15	27	27	45	26	0,129

stud couplings

1809 male stud elbow, BSP taper

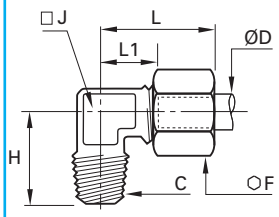
stainless steel



ØD	C		F	H	J	L maxi	L1	kg
6	R1/8	1809 06 10	13	18	8	25,5	13,5	0,020
6	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	0,026
8	R1/4	1809 08 13	14	23	10	28,5	14,5	0,030
10	R1/4	1809 10 13	19	25	12	32,5	16	0,049
10	R3/8	1809 10 17	19	25,5	12	32,5	16	0,055
10	R1/2	1809 10 21	19	32	18	36,5	20	0,094
12	R1/4	1809 12 13	22	26	14	34	17	0,066
12	R3/8	1809 12 17	22	27	14	34	17	0,070
12	R1/2	1809 12 21	22	32	18	37	20	0,100
16	R3/8	1809 16 17	27	28,5	18	39,5	21	0,085
16	R1/2	1809 16 21	27	31,5	18	39,5	21	0,105

1809 male stud elbow, NPT

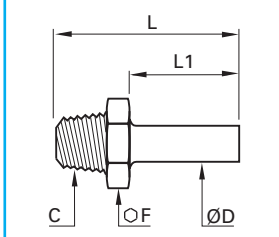
stainless steel



ØD	C		F	H	J	L maxi	L1	kg
6	1/8	1809 06 11	13	19,5	8	25,5	13,5	0,022
6	1/4	1809 06 14	13	25,5	10	25,5	13,5	0,032
6	3/8	1809 06 18	13	28	12	27	15	0,048
6	1/2	1809 06 22	13	34	12	29	17	0,072
8	1/8	1809 08 11	14	22	10	28,5	14,5	0,027
8	1/4	1809 08 14	14	25,5	10	28,5	14,5	0,033
10	1/4	1809 10 14	19	27,5	12	32,5	16	0,051
10	3/8	1809 10 18	19	28	12	32,5	16	0,056
10	1/2	1809 10 22	19	35	18	36,5	20	0,098
12	1/4	1809 12 14	22	28,5	14	34	17	0,068
12	3/8	1809 12 18	22	29,5	14	34	17	0,078
12	1/2	1809 12 22	22	35	18	37	20	0,104
16	3/8	1809 16 18	27	31	18	39,5	21	0,090
16	1/2	1809 16 22	27	34,5	18	39,5	21	0,115

1820 straight stem adaptor, BSP taper

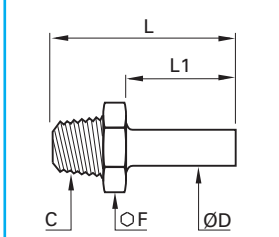
stainless steel



ØD	C		F	L	L1	kg
6	R1/8	1820 06 10	12	26,5	15	0,010
6	R1/4	1820 06 13	14	31	15	0,018
8	R1/8	1820 08 10	12	28,5	17	0,008
8	R1/4	1820 08 13	14	33	17	0,016
10	R1/4	1820 10 13	14	36	20	0,018
10	R3/8	1820 10 17	17	36,5	20	0,026
10	R1/2	1820 10 21	22	41	20	0,054
12	R1/4	1820 12 13	14	36	20	0,018
12	R3/8	1820 12 17	17	36,5	20	0,024
12	R1/2	1820 12 21	22	41	20	0,050
16	R3/8	1820 16 17	17	39,5	23	0,028
16	R1/2	1820 16 21	22	44	23	0,056

1820 straight stem adaptor, NPT

stainless steel



ØD	C		F	L	L1	kg
6	1/8	1820 06 11	12	26,5	15	0,010
6	1/4	1820 06 14	14	31	15	0,020
8	1/8	1820 08 11	12	28,5	17	0,010
8	1/4	1820 08 14	14	33	17	0,020
10	1/4	1820 10 14	14	36	20	0,020
10	3/8	1820 10 18	19	36,5	20	0,032
10	1/2	1820 10 22	22	41	20	0,060
12	1/4	1820 12 14	14	36	20	0,020
12	3/8	1820 12 18	19	36,5	20	0,028
12	1/2	1820 12 22	22	41	20	0,054
16	3/8	1820 16 18	19	39,5	23	0,032
16	1/2	1820 16 22	22	44	23	0,064

Orientable elbow
assembly

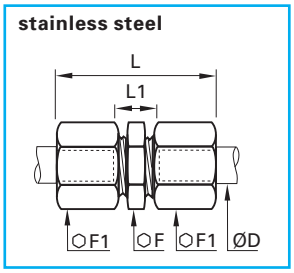
equal elbow
1802

straight stem adaptor
1820

tube to tube couplings

1806 equal connector

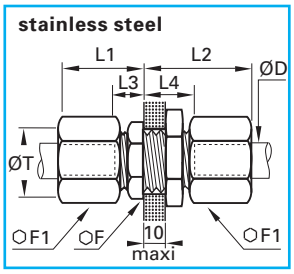
stainless steel



ØD		F	F1	L maxi	L1	kg
6	1806 06 00	12	13	34,5	11	0,026
8	1806 08 00	13	14	38,5	10	0,030
10	1806 10 00	17	19	46	13	0,066
12	1806 12 00	19	22	47	13	0,086
16	1806 16 00	24	27	51	13	0,106

1816 equal bulkhead coupling

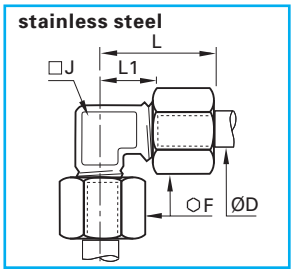
stainless steel



ØD		F	F1	L1 maxi	L2 maxi	L3	L4	T mini	kg
6	1816 06 00	13	13	19	28	7,5	17,5	10,5	0,037
8	1816 08 00	14	14	20	29	7	17	12,5	0,047
10	1816 10 00	19	19	25	33	9	19	16,5	0,101
12	1816 12 00	22	22	25	33	9	19	18,5	0,125
16	1816 16 00	27	27	28	36	9,5	19,5	22,5	0,191

1802 equal elbow

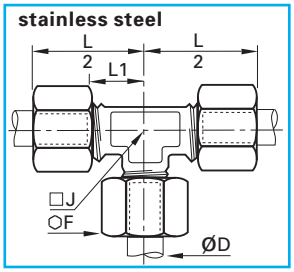
stainless steel



ØD		F	J	L maxi	L1	kg
6	1802 06 00	13	8	25,5	13,5	0,026
8	1802 08 00	14	10	28,5	14,5	0,034
10	1802 10 00	19	12	32,5	16	0,068
12	1802 12 00	22	14	34	17	0,094
16	1802 16 00	27	18	39,5	21	0,126

1804 equal tee

stainless steel



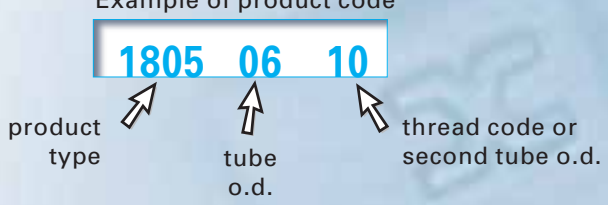
ØD		F	J	L/2	L1	kg
6	1804 06 00	13	8	25,5	13,5	0,040
8	1804 08 00	14	10	28,5	14,5	0,050
10	1804 10 00	19	12	32,5	16	0,096
12	1804 12 00	22	14	34	17	0,134
16	1804 16 00	27	18	39,5	21	0,150

Identification

Part numbers have been chosen by a method of mnemonics.
Each stainless steel compression fitting is identified by :

- product type
- the outside diameter of the tube
- the thread code or second tube o.d.

Example of product code



complementary fittings
the Legris reduction assembly

This patented accessory enables a smaller tube size to be used with the standard Legris coupling designed for larger sized tube. Tubes may be stainless steel or fluoropolymer and of different diameters.

The Legris reduction assembly :

- allows a lower stockholding of fittings (9 alternative reductions are available).
- enables less complicated system designs.
- allows connection of many tube diameters within one installation.

Legris reducers may be used with tailpiece adaptor reference **1822**.

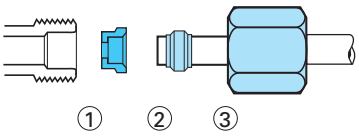
The **reduction assembly** comprises three elements.

① the reduction piece.

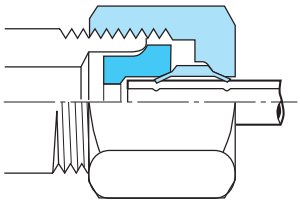
which fits inside the body of this fitting.

② the stainless steel compression olive fits on the end of the tube and is inserted between the reduction piece and the sleeve nut.

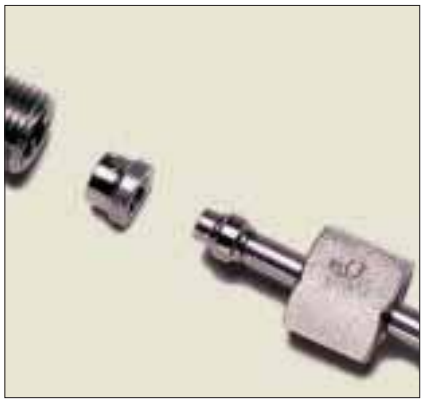
③ the stainless steel sleeve nut,



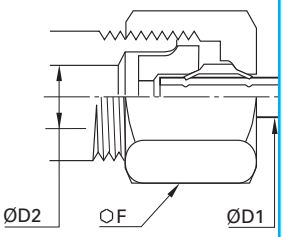
which is slightly longer than the standard sleeve nut in order to accommodate the extended length of the reduction piece.



1866 reduction assembly



stainless steel



Ø D1 = tube to be fitted
Ø D2 = original tube o.d.

ØD1	ØD2		F	kg
6	8	1866 06 08	14	0,011
8	10	1866 08 10	19	0,013
6	10	1866 06 10	19	0,010
10	12	1866 10 12	22	0,034
8	12	1866 08 12	22	0,038
6	12	1866 06 12	22	0,042
12	16	1866 12 16	27	0,054
10	16	1866 10 16	27	0,046
8	16	1866 08 16	27	0,052

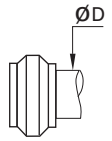
Each of the above part numbers comprises :
- a reduction piece
- an olive : ref 1824
- a sleeve nut : ref 1810

Stainless steel fittings can be used with various plastic tubing shown in this catalogue, section **technical tubes and hoses**.

- **fluoropolymer FEP tube**
  4 to 12 mm o.d.
- **polyethylene tube**
  4 to 14 mm o.d.
- **semi-rigid nylon and flexible polyurethane tube**
  4 to 16 mm o.d. (semi-rigid nylon)
  4 to 14 o.d. (flexible polyurethane)

1824 olive

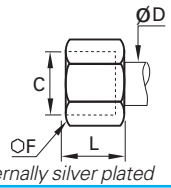
stainless steel



ØD		kg
6	1824 06 00	0,001
8	1824 08 00	0,002
10	1824 10 00	0,003
12	1824 12 00	0,004
16	1824 16 00	0,006

1810 sleeve nut

stainless steel

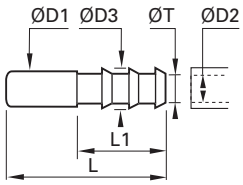


internally silver plated

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	0,043

1822 tailpiece adaptor for rubber hose

stainless steel

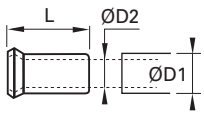


ØD1	ØD2		ØD3	L	L1	ØT passage mini.	kg
6	7	1822 06 07	9	37,5	22,5	6	0,008
8	6	1822 08 06	8	40	22,5	5	0,008
8	7	1822 08 07	9	40	22,5	6	0,008
8	10	1822 08 10	12,5	40	22,5	9	0,012
10	7	1822 10 07	9	43	22,5	6	0,010
10	10	1822 10 10	12,5	43	22,5	9	0,014
12	10	1822 12 10	12,2	43	22,5	9	0,014
12	13	1822 12 13	15	50	29,5	13	0,018

1822 tailpiece adaptors are inserted directly into couplings and are fixed with the nut and olive supplied with the coupling.

1827 ferrule for plastic and fluorpolymer tubing

stainless steel



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	0,002
12	10	1827 12 00	18	0,002
16	14	1827 16 00	18	0,003

This ferrule is necessary when using nylon polyethylene and fluoropolymer FEP tubing at all temperatures compatible with the fitting/tube assembly.

stainless steel accessories and plugs

legris connectic

stainless steel accessories and plugs

Suitable for use with the different thread types featured in this catalogue, this range offers a complete connection solution. A large choice of models, **for corrosive fluids and harsh environments**, low and medium pressure applications, meets the majority of application requirements.

tailpiece adaptors and adaptors

- material : stainless steel 316L
- technical specifications, dependant the type of tube used:

  - working pressure : 150 bar

  - working temperature : - 20° to + 180°C

adaptors

- material : stainless steel 316L
- technical specifications, dependant the type of tube used :

  - working pressure : 150 bar

  - working temperature : - 20° to + 180°C

plugs

- material : stainless steel 316L
- technical specifications:

  - working pressure : 150 bar

  - working temperature : - 20° to + 180°C

silencers

- to reduce noise level and exhaust air from compressed air systems
- material : stainless steel 316L
- technical specifications:
- working pressure : 12 bar
- working temperature : - 20° to + 180°C

the complete range of stainless steel accessories and plugs

stainless steel accessories

1844
taper/parallel
page J4

1843
parallel
page J4

1845
parallel
page J4

1817
parallel
page J4

1871
NPT
page J4

1855
parallel
page J4

1870
NPT
page J5

1862
parallel
page J5

1864
NPT/parallel
page J5

1867
taper/NPT
page J5

1863
taper/parallel
page J5

1872
NPT
page J5

1861
taper/parallel
page J6

1873
NPT
page J6

1823
taper/NPT
page J7

1821
taper/NPT
page J7

silencers

0682
parallel
page J6

0683
NPT
page J6

plugs

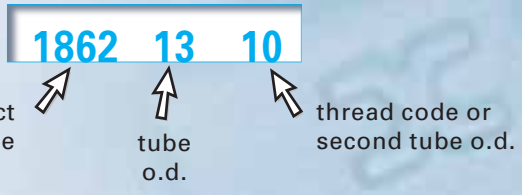
0285
taper
page J8

0285
NPT
page J8

Identification
Part numbers have been chosen by a method of mnemonics.
Each stainless steel compression fitting is identified by :

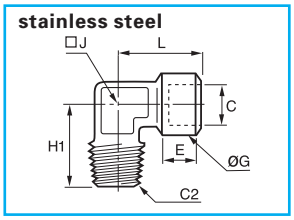
- product type
- the outside diameter of the tube
- the thread code or second tube o.d.

Example of product code



1844 equal male stud elbow BSP taper, female BSP parallel

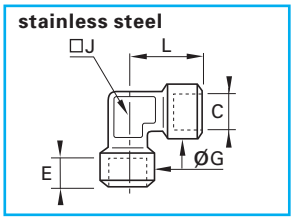
stainless steel



C1	C2		E	G	H1	J	L	kg
G1/8	R1/8	1844 10 10	7,5	15	20,5	10	22,5	0,025
G1/4	R1/4	1844 13 13	12	18,5	27,5	12	26,5	0,046
G3/8	R3/8	1844 17 17	12	23,5	28	14	30	0,070
G1/2	R1/2	1844 21 21	15	28	38	18	38	0,125
G3/4	R3/4	1844 27 27	16,5	33	41	22	44,5	0,175
G1"	R1"	1844 34 34	19	40	48	32	50	0,335

1843 equal elbow, female BSP parallel

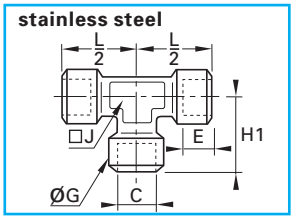
stainless steel



C		E	G	J	L	kg
G1/8	1843 10 10	7,5	17,5	12	22,5	0,044
G1/4	1843 13 13	11	18,5	15	26,5	0,051
G3/8	1843 17 17	11,5	23,5	18	29	0,077
G1/2	1843 21 21	15	28	23	38	0,160
G3/4	1843 27 27	16,5	33	22	43,5	0,232
G1"	1843 34 34	19	40	32	52	0,477

1845 equal tee, triple female BSP parallel

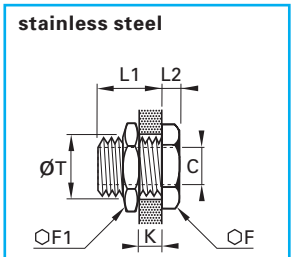
stainless steel



C		E	G	H1	J	L/2	kg
G1/8	1845 10 10	7,5	17,5	22,5	12	22,5	0,061
G1/4	1845 13 13	11	18,5	26,5	15	26,5	0,074
G3/8	1845 17 17	11,5	23,5	29	18	29	0,147
G1/2	1845 21 21	15	28	38	23	38	0,224
G3/4	1845 27 27	16,5	33	43,5	22	43,5	0,325
G1"	1845 34 34	19	40	50	32	50	0,489

1817 bulkhead adaptor, BSP parallel

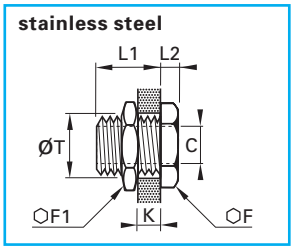
stainless steel



C		F	F1	K maxi	L1	L2	T mini	kg
G1/8	1817 00 10	19	22	9	14	4	16,5	0,033
G1/4	1817 00 13	24	27	15	21	4	20,5	0,057
G3/8	1817 00 17	30	32	14	21	5	26,5	0,096
G1/2	1817 00 21	32	36	20	27	6	28,5	0,117
G3/4	1817 00 27	41	41	22,5	30	6	34,5	0,185
G1"	1817 00 34	46	50	24,5	34	8	42,5	0,306

1871 bulkhead adaptor, NPT thread

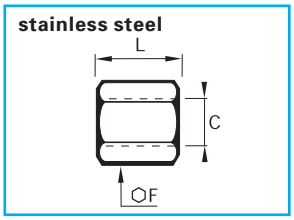
stainless steel



C		F	F1	K maxi	L1	L2	T mini	kg
1/8	1871 00 11	19	22	9	14	5	16,5	0,377
1/4	1871 00 14	24	27	17	23	5	20,5	0,708
3/8	1871 00 18	30	32	18	23	5	26,5	0,111
1/2	1871 00 22	32	36	22	29	6	28,5	0,141

1855 double female sleeve, BSP parallel

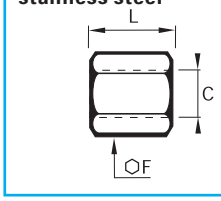
stainless steel



C		F	L	kg
G1/8	1855 10 10	14	17	0,013
G1/4	1855 13 13	17	24	0,023
G3/8	1855 17 17	22	25	0,042
G1/2	1855 21 21	27	32	0,077
G3/4	1855 27 27	32	35	0,116
G1"	1855 34 34	41	40	0,227

1870 double female sleeve, NPT

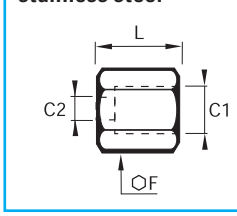
stainless steel



C		F	L	kg
1/8	1870 11 11	14	19	0,016
1/4	1870 14 14	17	28	0,033
3/8	1870 18 18	22	28	0,055
1/2	1870 22 22	27	35	0,104

1862 reducer/increaser double female sleeve, BSP parallel

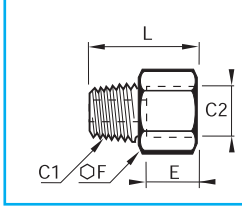
stainless steel



C1	C2		F	L	kg
G1/4	G1/8	1862 13 10	17	20,5	0,023
G3/8	G1/8	1862 17 10	22	21	0,042
G3/8	G1/4	1862 17 13	22	24,5	0,048
G1/2	G1/4	1862 21 13	27	28,5	0,084
G1/2	G3/8	1862 21 17	27	29	0,080
G3/4	G1/2	1862 27 21	32	39,5	0,160
G1"	G3/4	1862 34 27	41	45	0,302

1864 male NPT to female BSP parallel adaptor

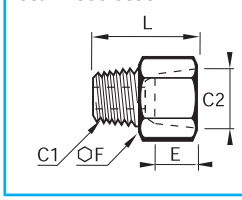
stainless steel



C1	C2		E	F	L	kg
1/8	G1/8	1864 11 10	7,5	14	21,5	0,014
1/4	G1/4	1864 14 13	11	17	30	0,027
3/8	G3/8	1864 18 17	11,5	22	31	0,043
1/2	G1/2	1864 22 21	15	27	39,5	0,079

1867 male BSP taper to female NPT adaptor

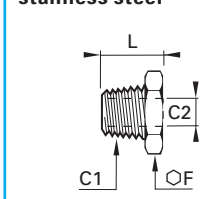
stainless steel



C1	C2		E	F	L	kg
R1/8	1/8	1867 10 11	8	14	21	0,014
R1/4	1/4	1867 13 14	11,5	17	28,5	0,027
R3/8	3/8	1867 17 18	12	22	29,5	0,044
R1/2	1/2	1867 21 22	15,5	27	37,5	0,080

1863 reducer male BSP taper to female BSP parallel

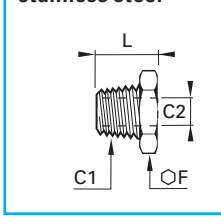
stainless steel



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	0,018
R3/8	G1/4	1863 17 13	17	16,5	0,011
R1/2	G1/4	1863 21 13	22	21	0,035
R1/2	G3/8	1863 21 17	22	21	0,022
R3/4	G1/2	1863 27 21	27	25,5	0,058
R1"	G3/4	1863 34 27	36	28,5	0,104

1872 reducer male/female NPT

stainless steel

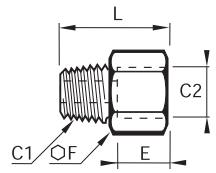


C1	C2		F	L	kg
1/4	1/8	1872 14 11	14	16	0,012
3/8	1/8	1872 18 11	19	16,5	0,026
3/8	1/4	1872 18 14	19	16,5	0,020
1/2	1/4	1872 22 14	22	21	0,045
1/2	3/8	1872 22 18	22	21	0,035

stainless steel accessories

1861 increaser male BSP taper to female BSP parallel

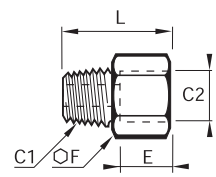
stainless steel



C1	C2		E	F	L	kg
R1/8	G1/4	1861 10 13	11	17	24	0,021
R1/8	G3/8	1861 10 17	11,5	22	25	0,037
R1/4	G3/8	1861 13 17	11,5	22	28,5	0,041
R1/4	G1/2	1861 13 21	15	27	32,5	0,069
R3/8	G1/2	1861 17 21	15	27	33	0,070
R1/2	G3/4	1861 21 27	16,5	32	38	0,104
R3/4	G1	1861 27 34	19	41	43,5	0,200

1873 increaser male/female NPT

stainless steel

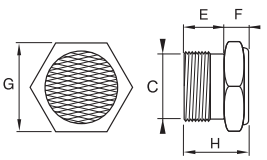


C1	C2		E	F	L	kg
1/8	1/4	1873 11 14	14	17	25	0,026
1/8	3/8	1873 11 18	14	22	25	0,042
1/4	3/8	1873 14 18	14	22	28,5	0,047
1/4	1/2	1873 14 22	17,5	27	31	0,071
3/8	1/2	1873 18 22	17,5	27	31,5	0,0,72

silencers

0682 threaded silencer, male BSP parallel

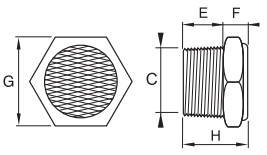
body stainless steel 316L



C		E	F	G	H	kg
G1/8	0682 00 10	8	7	14	15	0,009
G1/4	0682 00 13	8	7	17	15	0,013
G3/8	0682 00 17	10	8	22	18	0,020
G1/2	0682 00 21	12	10	27	22	0,038
G3/4	0682 00 27	15	12	32	27	0,066
G1"	0682 00 34	18	14	38	32	0,118

0683 threaded silencer, male NPT

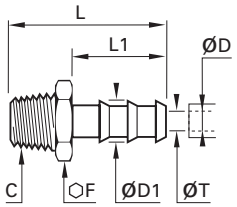
body stainless steel 316L



C		E	F	G	H	kg
1/8	0683 00 11	7	7	14	14	0,010
1/4	0683 00 14	11	7	17	18	0,015
3/8	0683 00 18	11	8	22	19	0,023
1/2	0683 00 22	15	10	27	25	0,044

1823 tailpiece adaptor for rubber hose, male BSP taper

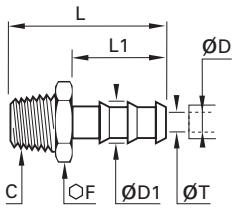
stainless steel



ØD	C		ØD1	F	L	L1	T mini	kg
7	R1/8	1823 07 10	9	10	34	22,5	5	0,009
7	R1/4	1823 07 13	9	14	38,5	22,5	6	0,016
10	R1/4	1823 10 13	12,2	14	38,5	22,5	7	0,018
10	R3/8	1823 10 17	12,2	17	39	22,5	9,5	0,021
13	R3/8	1823 13 17	15	17	46	29,5	11	0,025
16	R1/2	1823 16 21	18,5	22	59	38	14	0,058

1823 tailpiece adaptor for rubber hose, male NPT

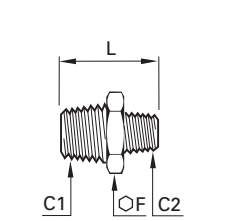
stainless steel



ØD	C		ØD1	F	L	L1	T mini	kg
1/4	1/8	1823 56 11	8,3	10	34	22,5	5,3	0,011
1/4	1/4	1823 56 14	8,3	14	38,5	22,5	5,3	0,018
3/8	1/4	1823 60 14	11,7	14	38,5	22,5	8,5	0,020
3/8	3/8	1823 60 18	11,7	19	39	22,5	8,5	0,029

1821 straight male BSP taper equal/unequal adaptor

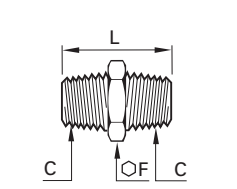
stainless steel



C1	C2		F	L	kg
R1/8	R1/8	1821 10 10	12	19	0,008
R1/4	R1/4	1821 13 13	14	27	0,019
R1/4	R1/8	1821 13 10	14	23,5	0,015
R3/8	R3/8	1821 17 17	17	28	0,025
R3/8	R1/4	1821 17 13	17	27,5	0,024
R1/2	R1/2	1821 21 21	22	36	0,048
R1/2	R3/8	1821 21 17	22	32,5	0,041
R3/4	R3/4	1821 27 27	27	42	0,099
R3/4	R1/2	1821 27 21	27	41	0,088
R1"	R1"	1821 34 34	36	46	0,168
R1"	R3/4	1821 34 27	22	48	0,158

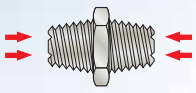
1821 straight male NPT adaptor

stainless steel



C		F	L	kg
R1/8	1821 11 11	12	23	0,011
R1/4	1821 14 14	14	32	0,023
R3/8	1821 18 18	19	33	0,031
R1/2	1821 22 22	22	42	0,056
R3/4	1821 28 28	27	40	0,096
R1"	1821 35 35	36	46	0,161

visual identification of NPT threads

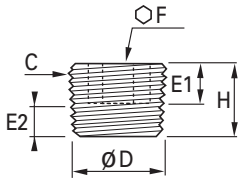


Legris fluoropolymer thread sealing tape (Pt No. 0605) ensures perfect sealing of taper threads.
(working temperatures: -250° to +260°).

stainless steel plugs

0285 internal hexagon headed, BSP taper

stainless steel AISI 316L

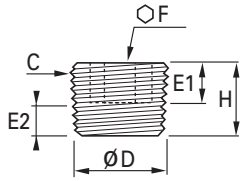


C		ØD	E1	E2 mini	E2 maxi	F	H	kg
R1/8	0285 10 00	9,72	6	3,1	4,9	5	8	0,003
R1/4	0285 13 00	13,15	8	4,7	7,3	6	10	0,007
R3/8	0285 17 00	16,66	8	5,1	7,7	8	11	0,013
R1/2	0285 21 00	20,95	8	6,4	10	10	13	0,025
R3/4	0285 27 00	26,44	11	7,7	11,3	14	17	0,057
R1"	0285 34 00	33,25	13	8,1	12,7	17	19	0,098

Conforms generally to standard DIN 306

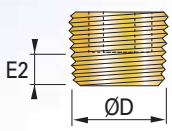
0285 internal hexagon headed, NPT

stainless steel AISI 316L



C		ØD	E1	E2 mini	E2 maxi	F	H	kg
1/8	0285 11 00	10,24	6	3,2	5	5	8	0,004
1/4	0285 14 00	13,61	8	4,4	7,2	6	10	0,007
3/8	0285 18 00	17,05	8	4,7	7,5	8	11	0,014
1/2	0285 22 00	21,22	8	6,3	9,9	10	13	0,025

Definition of dimensions ØD and E2 for product 0285



D = diameter of gauge drawing

E2 = maxi. and mini. length of gauge diameter (D)


legris

technical tubes and hoses

legris connectic

technical tubes and hoses

Legris' policy is to be able to offer its customers a complete range of fittings, and in addition, a full range of tubes and hoses, compatible with the different ranges of fittings featured in this catalogue.

polyurethane twin tubing

- allows compact installations in confined areas
- single or double coloured (for easy identification of circuits)
- maintains circular shape after separation
- available in 4 mm, 6 mm and 8 mm O.D.

multitube

- to streamline and protect tubing
- comprises a PVC sheath, containing calibrated nylon tubing
- fire resistant to NFE 32070.C2
- 6 different colours and numbering of tubes from 1 to 12 for fast identification of circuits

braided PVC hose

- translucent for visual checking of fluids
- food quality
- available in 8 mm to 26 mm O.D

self-fastening tubing

- excellent resistance to hydrocarbons, UV, sparks, abrasion and rupture
- ozone resistant
- simple and easy push on installation
- for use with Legris quick-acting barbed fittings

anti-static tubing

- prevents accumulation of electrostatic charge
- excellent flexibility and conductivity
- low surface resistance
- calibrated, available in 3 mm to 12 mm O.D.

Packaging

- Tubepack®, 5m to 100m rolls.
- drum, 100 m long
- drum, up to 1 000 m long

technical tubes and hoses

All Legris tubing and hose designs conform to international standards. In order to offer global solutions for connection, Legris provides users with a comprehensive range suitable for most applications in order to meet the majority of users' needs.

nylon tubing

- rigid and semi-rigid
- optimum mechanical properties and good chemical resistance
- 7 colours for visual identification of circuits
- close tolerance, available in 3 mm to 16 mm O.D., supplied in 25 m and 100 m rolls

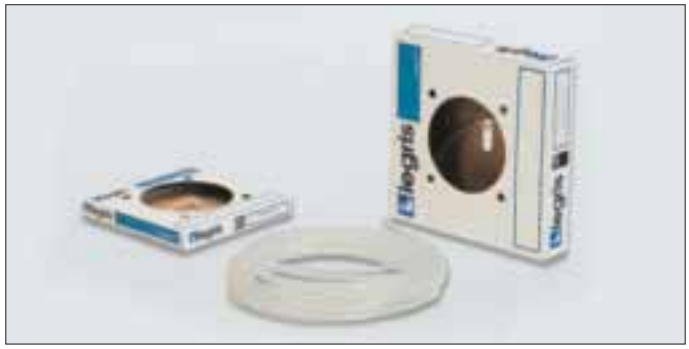
polyurethane tubing

- highly flexible for use in reduced spaces and for small bend radius applications
- Polyester and polyether version for optimum mechanical properties and good chemical resistance.
- 7 colours available for coding of circuits
- close tolerance, available in 3 mm to 14 mm O.D, supplied in 25 m and 100 m rolls

polyethylene tubing

- good resistance to aggressive and corrosive agents
- material authorized by FDA (food applications)
- economical solution
- close tolerance, available in 4 to 14mm OD and (1/4, 3/8 and 1/2 O.D.)

fluoropolymer FEP tubing



- excellent resistance to aggressive and corrosive agents and high temperatures
- food quality to FDA 177.1550
- close tolerance, available in 4 mm to 12 mm O.D., supplied in 5 m and 25 m rolls

anti-spark tubing

- UL94 VO Standard for aggressive environments and welding application
- comprises a PVC sheath and semi-rigid nylon tubing
- special marking to facilitate stripping and assembly
- available in 4 colours from 4 mm to 12 mm O.D., supplied in 25 m and 100 m lengths

recoil tubing

- nylon and polyurethane
- ages well with excellent flexibility and coil retention
- ready for use and designed with spring protection end fittings
- close tolerance, available in 3 colours and 3 lengths, 4 mm to 12 mm O.D.

Compatibility - Legris connections / technical tubes and hoses

The extensive compatibility of Legris fittings/technical tubes and hoses is ideally suited for many industrial and food applications.

Recoil tubing

type	connections	applications
nylon with integral 1/4" BSP taper fitting 	C 9000 and metal **quick acting couplers**  **Blowguns** 	pneumatic equipment 
polyurethane with integral 1/4" BSP taper fitting 	C 9000 and metal **quick acting couplers**  **Blowguns** 	pneumatic equipment 
polyurethane without connectors 	**push-in fittings** with protection springs  C 9000 **quick acting couplers** 	pneumatic equipment 

Polyethylene tubing

	connections	applications
	LF 3600 **push-in fittings** 	food and industrial applications 

Braided PVC hose

	connections	applications
	**adaptors**  C 9000 and metal **quick acting couplers** 	suitable for use with food and industrial fluids 

Self-fastening hose

	connections	applications
	**quick-acting barbed fittings** 0132, 0133 and 0134 	automotive process equipment, cooling circuits, pneumatic installations 

In order to obtain the best performance of the fitting/tube connection, the technical specifications of each component should be taken into account by the user.

Compatibility - Legris connections / technical tubes and hoses

In order to obtain the best performance of the fitting/tube connection, the technical specifications of each component should to be taken into account by the user.

Nylon tubing

type	connections	applications
semi-rigid 	LF 3000®, LF 3600, LF 3800 **push-in fittings** 	pneumatic systems 
	brass and stainless steel **compression fittings** (ferrules are necessary) 	
	adaptors 	
multitube semi-rigid/PVC sheath 	**multi-connector** 	pneumatic circuits submitted to external aggression 
rigid 	**push-in fittings** for centralised lubrication 	centralised lubrication circuits 

Polyurethane tubing

type	connections	applications
polyester 	LF 3000®, LF 3600, LF 3800 **push-in fittings** 	pneumatic systems 
polyether 	brass and stainless steel **compression fittings** (ferrules are necessary) 	
twin tubing 	**adaptors** 	
anti-static 	LF 3000®, LF 3600, LF 3800 **push-in fittings** 	pneumatic systems electronic environments 
	brass and stainless steel **compression fittings** (ferrules are necessary) 	
	adaptors 	

Fluoropolymer FEP tube

	connections	applications
	LF 3600, LF 3800 **push-in fittings** 	food industry and aggressive environment 
	stainless steel **compression fittings** (ferrules are necessary) 	

Anti-spark tubing

type	connections	applications
anti-spark nylon tubing **anti-spark polyurethane tubing** 	LF 6000 **push-in fittings** 	installations submitted to aggressive environments and spark projections 
anti-spark single layer polyurethane tubing 	LF 3600 **push-in fittings** 	installations submitted to aggressive environments and spark projections 

Packaging-Legris tubes and hoses

Legris offers several types of packaging to meet customers' requirements.

Tubepack®
standard

- 25 m and 100 m long
- for polyurethane, nylon, FEP and polyethylene and anti-spark tubing.
- rationalisation of tube storage plus:
  - immediate identification of the tube type
  - unreels easily and efficient storage

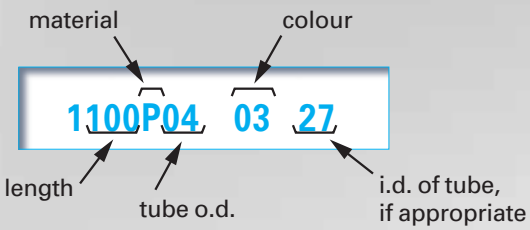
Drum, up to 1 000 m long
upon request

- for nylon, polyurethane and FEP tubing
- for optimized handling

Tube length marked every metre

- marking every metre
- time saving when cutting to length
- immediate identification of remaining quantity

Product codes of Legris tubes and hoses



material code:
P = nylon semi-rigid
T = FEP
U = polyurethane
V = PVC
Y = polyethylene
L = rigid nylon
H= self fastening

tube o.d.:
corresponds to the outside diameter of the tube

tube i.d.:
27 = 2,7 mm

colour code:

00	=	
01	=	
02	=	
03	=	
04	=	
05	=	
06	=	
07	=	
08	=	CRYSTAL
12	=	CRYSTAL
13	=	CRYSTAL
14	=	CRYSTAL
17	=	CRYSTAL

the complete range of technical tubes and hoses

standard tubing

nylon
semi-rigid
Page K9

nylon
rigid
Page K9

polyurethane
flexible
Page K11

standard tubing

anti-static
Page K12

polyethylene
Page K13

fluoropolymer FEP
Page K14

recoil tubing

nylon
Page K16

polyurethane
Pages K17 and K18

miscellaneous

anti-spark tubing
Page K21

polyurethane twin tubing
Page K15

multitube nylon/PVC sheath
Page K15

braided

PVC hose
Page K24

self fastening tubing
Page K23

accessories

0694
Page K19

0695
Page K19

6000
Page K21

3000 71 11
Page K23

clip
Page K25

3000 71
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0697
Page K25

0127
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1827
Page K25

You will find the application table for Legris nylon and polyurethane tubing pages K26 to K28.

close tolerance semi-rigid and rigid nylon tubing

This range includes semi-rigid nylon tubing for pneumatic systems and rigid nylon tubing for centralized lubrication applications which may require a higher pressure. Legris nylon tubing provides optimum mechanical properties, has good chemical resistance and conforms to NF E49-100 standard. Semi-rigid tube is shore hardness 60°D and rigid tube, shore hardness 65 D

o.d. of tube	tolerances on o.d	
3 to 5 mm	+0,05	-0,08
6 to 16 mm	+0,05	-0,1

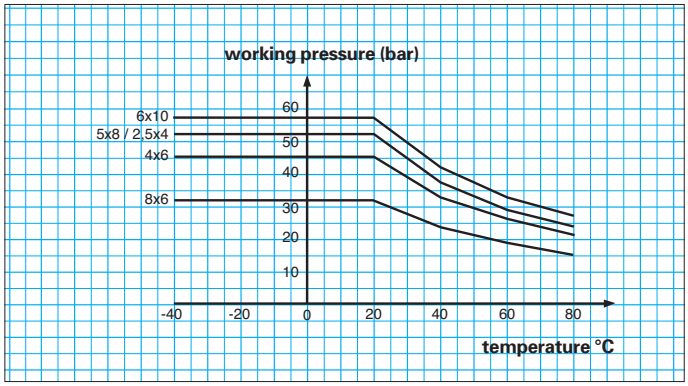
Connected to **Legris** instant fittings, the calibration of Legris nylon tubing ensures **perfect sealing**.

Technical characteristics of Legris nylon tubing also depend on the type of connection used.

pressure and temperature resistance of Legris nylon tubing

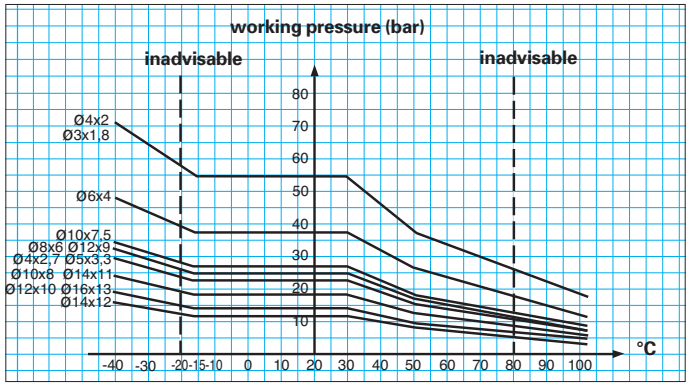
In the graph below, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
example : semi-rigid nylon tube, Ø14x12, at 10°C, maximum pressure = 12 bar

rigid nylon tubing



to calculate burst pressure, the value in the above graph should be multiplied x 3.

semi-rigid nylon tubing



to calculate burst pressure, the value in the above graph should be multiplied x 3.

The **vacuum capability** of Legris semi-rigid nylon tubing is capable of 755 mm Hg (99 % vacuum). Connected with LF 3000® push-in fittings, it offers excellent vacuum performance.

advantages of Legris nylon tubing

- large range of working temperatures and pressures
- good chemical resistance (see list of fluids at the end of this section – pages K27/K28)
- good humidity resistance
- negligible pressure drop
- constant rigidity, good ageing with constant tolerance on O.D.
- good absorbtion of vibration
- strong abrasion resistance
- 7 colours for easy identification of circuits
- silicone free

close tolerance semi-rigid and rigid nylon tubing

1025P close tolerance semi-rigid nylon tubing, 25 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at ambient temp. in mm	CLEAR							kg for 25 m
3	1,8	8	1025P03 00 18				1025P03 04 18			0,020
4	2	25	1025P04 00	1025P04 01	1025P04 02	1025P04 03	1025P04 04	1025P04 05	1025P04 06	0,318
4	2,7	30	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	25	1025P05 00 33	1025P05 01 33			1025P05 04 33			0,420
6	4	35	1025P06 00	1025P06 01	1025P06 02	1025P06 03	1025P06 04	1025P06 05	1025P06 06	0,535
8	6	55	1025P08 00	1025P08 01	1025P08 02	1025P08 03	1025P08 04	1025P08 05	1025P08 06	0,748
10	7,5	75	1025P10 00 75	1025P10 01 75			1025P10 04 75			1,135
10	8	90	1025P10 00	1025P10 01	1025P10 02	1025P10 03	1025P10 04	1025P10 05	1025P10 06	0,989
12	9	75	1025P12 00 09	1025P12 01 09			1025P12 04 09			1,769
12	10	90	1025P12 00	1025P12 01			1025P12 04			1,345
14	11	100	1025P14 00 11	1025P14 01 11			1025P14 04 11			2,226
14	12	120	1025P14 00	1025P14 01			1025P14 04			1,734
16	13	120	1025P16 00 13							2,500

1100P close tolerance semi-rigid nylon tubing, 100 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at ambient temp. in mm	CLEAR							kg for 100 m
4	2	25	1100P04 00	1100P04 01	1100P04 02	1100P04 03	1100P04 04	1100P04 05	1100P04 06	1,152
4	2,7	30	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	25	1100P05 00 33	1100P05 01 33			1100P05 04 33			1,274
6	4	35	1100P06 00	1100P06 01	1100P06 02	1100P06 03	1100P06 04	1100P06 05	1100P06 06	1,799
8	6	55	1100P08 00	1100P08 01	1100P08 02	1100P08 03	1100P08 04	1100P08 05	1100P08 06	2,898
10	7,5	75	1100P10 00 75	1100P10 01 75			1100P10 04 75			4,400
10	8	90	1100P10 00	1100P10 01	1100P 10 02	1100P10 03	1100P10 04	1100P10 05		3,667
12	9	75	1100P12 00 09	1100P12 01 09			1100P12 04 09			5,600
12	10	90	1100P12 00	1100P12 01			1100P12 04			5,052
14	11	100	1100P14 00 11	1100P14 01 11			1100P14 04 11			5,200
14	12	120	1100P14 00	1100P14 01			1100P14 04			4,800
16	13	120	1100P16 00 13							7,800

1025L close tolerance rigid nylon tubing, 25 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at ambient temp. in mm		kg for 25 m
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

Other part numbers are available, please do not hesitate to consult us.

close tolerance flexible polyurethane tubing

The excellent flexibility of Legris flexible polyurethane tubing allows compact cabling where a small bend radius is required. Legris flexible polyurethane tubing has a shore hardness 52 D and conforms to NF E49-101 standard.

The Legris range comprises 2 versions:

- **polyester polyurethane** tubing, for superior **chemical resistance** and improved **ageing**,
- **polyether polyurethane** tubing, for excellent **resistance to humidity** and **bacteriological aggressions**.

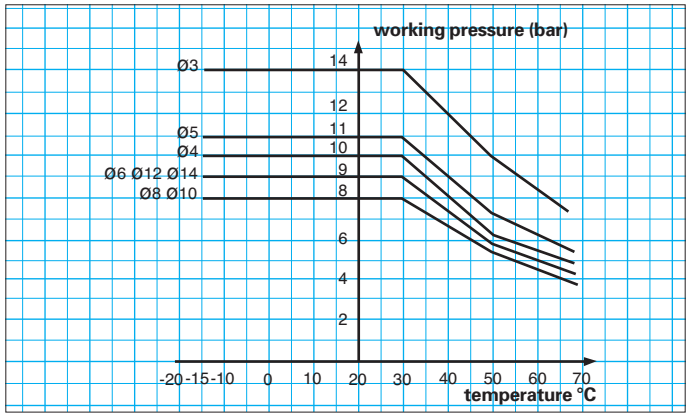
o.d. of tube	tolerances on o.d.	
3 to 8 mm	+0,10	-0,10
10 to 14 mm	+0,15	-0,15

Connected to Legris instant fittings, the calibration of Legris polyurethane tubing ensures perfect sealing.

Technical characteristics of Legris polyurethane tubing also depend on the type of connection used.

pressure and temperature resistance of Legris polyurethane tubing

In the graph below, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
example : polyurethane tube, Ø4 mm, at 20°C,
working pressure = 10 bar



to calculate **burst pressure**, the values in the above graph should be multiplied x 3

The **vacuum capability** of Legris flexible polyurethane tubing is 755 mm Hg (99 % vacuum) when connected to LF 3000 push-in fittings.

advantages of Legris polyurethane tubing

- high flexibility and small bend radius
- large range of working temperatures and pressures
- good chemical resistance (see the list of fluids at the end of this section)
- negligible pressure drop
- constant rigidity, good ageing
- good absorbtion of vibration
- UV resistant
- 7 colours for easy circuit identification
- fluid identification (crystal version)
- excellent resistance to abrasion
- silicone free

close tolerance flexible polyurethane tubing

1025U flexible polyester polyurethane tubing, in 25 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at ambient temperature in mm	flexible polyester polyurethane tubing, in 25 m rolls						kg for 25 m
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

1100U flexible polyester polyurethane tubing, in 100 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at ambient temperature in mm	flexible polyester polyurethane tubing, in 100 m rolls						kg for 100 m
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			1,605
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

1025U..R close tolerance flexible polyether polyurethane tubing, in 25 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at ambient temperature in mm	close tolerance flexible polyether polyurethane tubing, in 25 m rolls							kg for 25 m
					CRYSTAL	CRYSTAL	CRYSTAL	CRYSTAL	CRYSTAL	
4	2,5	10	1025U04R01	1025U04R04	1025U04R08	1025U04R14	1025U04R13	1025U04R12	1025U04R17	0,310
5	3	15			1025U05R08					0,522
6	4	20	1025U06R01	1025U06R04	1025U06R08	1025U06R14	1025U06R13	1025U06R12	1025U06R17	0,591
8	5,5	25	1025U08R01	1025U08R04	1025U08R08	1025U08R14	1025U08R13	1025U08R12	1025U08R17	0,971
10	7	35	1025U10R01	1025U10R04	1025U10R08	1025U10R14				1,467
12	8	40	1025U12R01	1025U12R04	1025U12R08	1025U12R14				2,406
14	9,5	50		1025U14R04 95	1025U14R08 95					2,815

1100U..R close tolerance flexible polyether polyurethane tubing, in 100 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at ambient temperature in mm	close tolerance flexible polyether polyurethane tubing, in 100 m rolls							kg for 100 m
					CRYSTAL	CRYSTAL	CRYSTAL	CRYSTAL	CRYSTAL	
4	2,5	10	1100U04R01	1100U04R04	1100U04R08	1100U04R14	1100U04R13	1100U04R12	1100U04R17	1,092
6	4	20	1100U06R01	1100U06R04	1100U06R08	1100U06R14	1100U06R13	1100U06R12	1100U06R17	2,064
8	5,5	25	1100U08R01	1100U08R04	1100U08R08	1100U08R14	1100U08R13	1100U08R12	1100U08R17	3,610
10	7	35			1100U10R08	1100U10R14				6,109
12	8	40			1100U12R08	1100U12R14				8,610
14	9,5	50			1100U14R08 95					11,215

Other part numbers are available, please do not hesitate to consult us.

close tolerance anti-static polyurethane tubing

Legris anti-static polyurethane tubing has a low surface resistance and is designed to prevent accumulation of electrostatic charges. It meets perfectly the requirements of electronic environments and has a surface hardness of 50 shore D.

o.d. of tube	tolerances on o.d.	
3 to 8 mm	+0,10	-0,10
10 to 12 mm	+0,15	-0,15

Connected to Legris instant fittings, the calibration of Legris anti-static tubing ensures perfect sealing.

Technical performance characteristics of Legris anti-static polyurethane tubing are the same as for Legris polyurethane tubing. Please refer to the previous pages.

1100U anti-static polyurethane tubing

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at 20° C (in mm)	in 100 m rolls	per 100 m
3	1,5	8	1100U03A01	0,836
4	2,5	10	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

close tolerance polyethylene tubing

Legris polyethylene tubing provides good resistance to aggressive and corrosive agents and is impermeable to gas and moisture.
It's odourless and FDA approved material ensures Legris polyethylene tubing is suitable for food applications. It has a surface hardness of 44 shore D.

Technical characteristics of Legris polyethylene tubing also depend on the type of connection used.

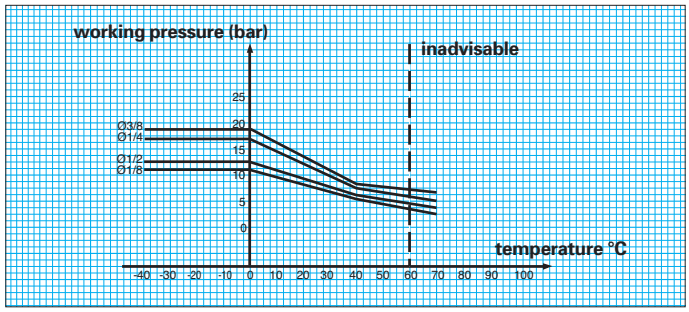
o.d. of tube	tolerances on o.d.	
1/8" to 1/2"	+0,1	-0,1
4 to 14 mm	+0,1	-0,1

Pressure and temperature resistance of Legris polyethylene tubing

In the graph below, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
example : polyethylene tube, Ø 1/4, at 10°C,
working pressure = 12 bar

1025Y polyethylene tubing

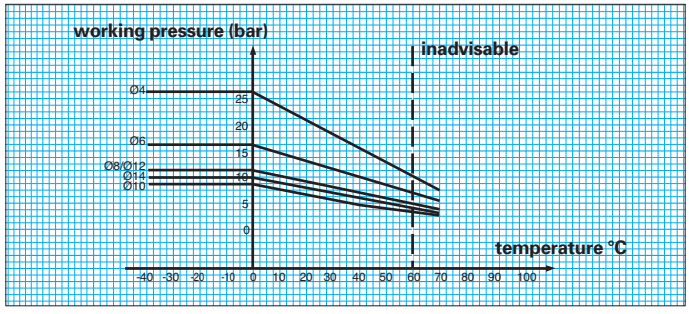
o.d. tube	i.d. tube mm	R minimum bend radius for tube at 20° C (in mm)	in 25 m rolls CLEAR	per 25 m
1/8	1,57	13	1025Y53 00	0,270
1/4	4,3	32	1025Y56 00	0,400
3/8	6,35	50	1025Y60 00	0,760
1/2	9,65	64	1025Y62 00	1,330



to calculate **burst pressure**, the values in the above graph should be multiplied x 3

1100Y polyethylene tubing

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at 20° C (in mm)	in 100 m rolls CLEAR	per 100 m
4	2	25	1100Y04 00	0,910
6	4	35	1100Y06 00	1,500
8	6	55	1100Y08 00	2,110
10	8	80	1100Y10 00	2,710
12	9	65	1100Y12 00	4,750
14	11	80	1100Y14 00	5,650



to calculate **burst pressure**, the values in the above graph should be multiplied x 3

= suitable for food applications

close tolerance fluoropolymer FEP tube

Legris fluoropolymer tube FEP is food quality and provides excellent resistance to aggressive and corrosive agents and to high temperatures. It has a surface hardness of 55° shore D.

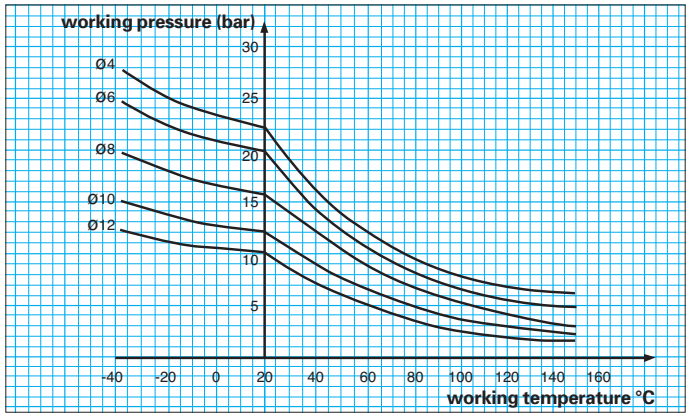
O.D. of tube	Tolerances on O.D.	
4 mm	+0,05	-0,05
6 to 10 mm	+0,07	-0,07
12 mm	+0,10	-0,10

Connected to Legris instant fittings, the calibration of Legris FEP 140 tube ensures perfect sealing.

Technical characteristics of Legris fluoropolymer FEP tube also depend on the type of connection used.

Pressure and temperature resistance of Legris FEP tube

In the graph below, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
example : fluoropolymer tube, Ø 6 mm , at 20°C,
maximum pressure = 20 bar



to calculate **burst pressure**, the values in the above graph should be multiplied x 3

1005T-1025T fluoropolymer FEP tube

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at 20° C (in mm)	in 5 m rolls white CLEAR	kg per 5 m	in 25 m rolls white CLEAR	kg per 25 m
4	2,5	40	1005T04 00 25	0,155	1025T04 00 25	0,506
6	4	50	1005T06 00	0,250	1025T06 00	1,027
8	6	70	1005T08 00	0,385	1025T08 00	1,431
10	8	120	1005T10 00	0,524	1025T10 00	1,693
12	10	180	1005T12 00	0,547	1025T12 00	1,913

= suitable for food applications

main advantages of Legris fluoropolymer FEP tube
- excellent resistance to chemicals and high temperature
- FDA approved (food quality)
- good abrasion resistance
- excellent UV resistance
- delivered in tubepack® boxes for protection
- silicone free

close tolerance flexible polyester polyurethane twin tubing

Legris flexible polyurethane twin tubing maintains the smooth surface of both tubes when separated and keeps the characteristics of their dimension.
Its use enables :

- swift and easy assembly
- compactness of circuitry
- differentiation of circuits, via two colours

Technical characteristics of Legris flexible polyurethane twin tubing are the same as for Legris polyurethane tubing.
Please refer to page K10.

o.d. of tube	tolerances on o.d.	
4 to 8 mm	+0,10	-0,10

Connected to Legris instant fittings, the calibration of Legris flexible polyurethane twin tubing ensures optimum sealing.

1420U flexible polyester polyurethane twin tubing, 25m roll

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at 20° C (in mm)	Part numbers for flexible polyurethane twin tubing in 25m rolls			kg for 25 m
4	2,5	10	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

close tolerance semi-rigid nylon multitube

Legris semi-rigid nylon multitube is suited to pneumatic circuits submitted to external aggression. Its PVC sheath is resistant to abrasion, spark projections, caustic fluids, oils, alcohol etc. The special design sheath and spiral assembly ensure a small bend radius for compact and flexible cabling. For fast identification of circuits, tubes are numbered from 1 to 12 and 6 colours are available.

Technical characteristics of Legris nylon multitube are the same as for Legris semi-rigid nylon tubing. Please refer to page K8.

o.d. of tube	tolerances on o.d.	
4 mm	+0,05	-0,08
6 to 8 mm	+0,05	-0,1

Connected to Legris instant fittings, the calibration of Legris nylon multitube ensures optimum sealing.

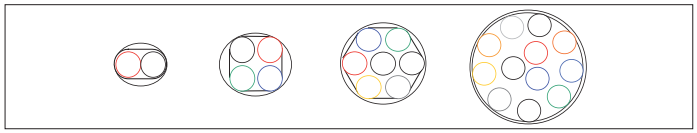
1050P-1010P semi-rigid nylon multitube

o.d. PVC sheath (mm)	o.d. x i.d. semi-rigid nylon (mm)	R minimum bend radius at 20° C (mm)	number of tubes	supplied in 50 metre rolls	kg for 50 m
11,2	4x2,7	20	2	1050P04 00M02	4,400
13,5	4x2,7	35	4	1050P04 00M04	6,600
16	4x2,7	45	7	1050P04 00M07	8,200
20,5	4x2,7	55	12	1050P04 00M12	15,200
16	6x4	45	2	1050P06 00M02	8,400
18,5	6x4	55	4	1050P06 00M04	11,500
22	6x4	60	7	1050P06 00M07	12,500
19,2	8x6	45	2	1050P08 00M02	13,000

Please refer to section A for further details of Legris LF 3000® Multi-Connectors.

o.d. PVC sheath (mm)	o.d. x i.d. semi-rigid nylon (mm)	R minimum bend radius at 20° C (mm)	number of tubes	supplied in 10 metre rolls	kg for 10 m
13,5	4x2,7	35	4	1010P04 00M04	1,440
16	4x2,7	45	7	1010P04 00M07	1,920
18,5	6x4	55	4	1010P06 00M04	2,300
22	6x4	60	7	1010P06 00M07	2,900
19,2	8x6	45	2	1010P08 00M02	2,600

colour choice



close tolerance nylon recoil tubing

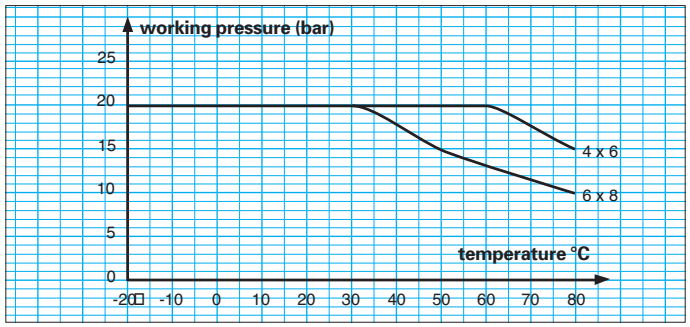
Legris nylon recoil tubing ensures that the coil will continue to contract after multiple use. Assembled with male stud 1/4" BSP taper fittings, it is ready for immediate use. Protection springs are fitted to prevent the ends of the tubing from becoming damaged.
With a surface hardness of 60 shore D, it conforms to NF E49-100 standard.

O.D. of tube	tolerances on o.d.	
6 to 8 mm	+0,05	-0,1

Technical characteristics of Legris nylon recoil tubing also depend on the type of connection used.

pressure and temperature resistance of Legris nylon recoil tubing

In the adjacent graph, each curve represents the acceptable maximum working pressure at a given temperature, by diameter.
example : nylon recoil tube, Ø4x6, at 20°C,
maximum working pressure = 20bar



to calculate burst pressure, the value in the above graph should be multiplied x 3

1470P nylon recoil tubing, 2 metres, with 1/4'' BSP taper fitting

o.d. tube mm	i.d. tube mm	2 metres recoil tubing				kg
6	4	1470P06 04 13	1470P06 07 13	120	60	0,143
8	6	1470P08 04 13	1470P08 07 13	160	70	0,174

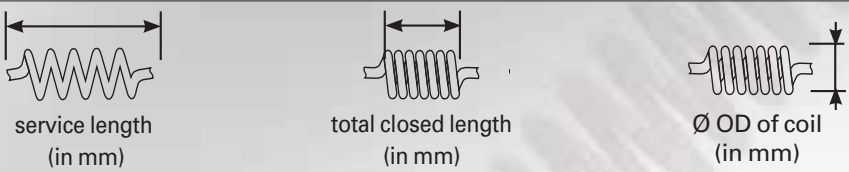
1471P nylon recoil tubing, 4 metres, with 1/4'' BSP taper fitting

o.d. tube mm	i.d. tube mm	4 metres recoil tubing				kg
6	4	1471P06 04 13	1471P06 07 13	240	60	0,199
8	6	1471P08 04 13	1471P08 07 13	320	70	0,249

1472P nylon recoil tubing, 6 metres, with 1/4'' BSP taper fitting

o.d. tube mm	i.d. tube mm	6 metres recoil tubing				kg
6	4	1472P06 04 13	1472P06 07 13	360	60	0,260
8	6	1472P08 04 13	1472P08 07 13	480	70	0,329

dimension symbols for Legris recoil tubing



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

close tolerance polyester polyurethane recoil tubing

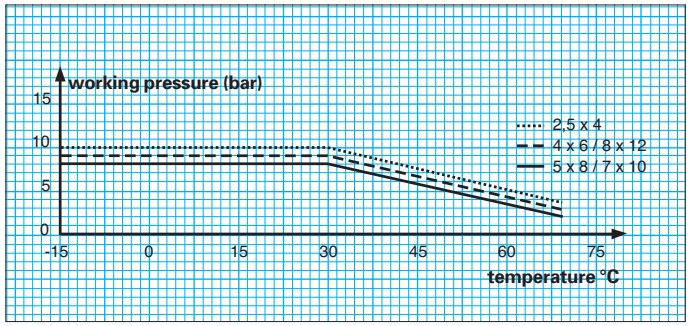
Legris polyester polyurethane recoil tubing is perfectly suited for installations requiring flexibility within a reduced space, thanks to its small coil diameters. Straightened extremities and good resistance to shocks and abrasion enable safe and easy manipulation of pneumatic machinery.
With a surface hardness of 52 shore D, it conforms to NF E49-101 standard.

O.D. of tube	tolerances on o.d.	
4 to 8 mm	+0,10	-0,10
10 to 12 mm	+0,15	-0,15

Technical characteristics of Legris polyurethane recoil tubing also depend on the type of connection used.

pressure and temperature resistance of Legris polyester polyurethane recoil tubing

In the adjacent graph, each curve represents the acceptable maximum working pressure at a given temperature, by diameter.
example : polyurethane recoil tube, Ø4x6, at 20°C,
maximum working pressure = 9 bar



1470U polyester polyurethane recoil tubing, 2 m long, with BSPT thread connections

o.d. tube mm	i.d. tube mm	BSPT thread	Polyurethane recoil tubing, 2 m long			length of long straight section in mm	length of short straight section in mm		kg
4	2,5	R1/8	1470U04 03 10	1470U04 04 10	1470U04 05 10	190	300	100	24	0,060
6	4	R1/4	1470U06 03 13	1470U06 04 13	1470U06 05 13	230	300	100	32	0,120
8	5	R1/4	1470U08 03 13	1470U08 04 13	1470U08 05 13	190	500	100	42	0,160
10	7	R1/4	1470U10 03 13	1470U10 04 13	1470U10 05 13	190	500	100	62	0,190
12	8	R3/8	1470U12 03 17	1470U12 04 17	1470U12 05 17	200	500	100	65	0,220

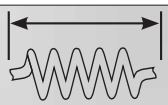
1471U polyester polyurethane recoil tubing, 4 m long, with BSPT thread connections

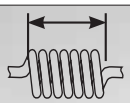
o.d. tube mm	i.d. tube mm	BSPT thread	Polyurethane recoil tubing, 4 m long			length of long straight section in mm	length of short straight section in mm		kg
4	2,5	R1/8	1471U 04 03 10	1471U04 04 10	1471U04 05 10	390	300	100	24	0,100
6	4	R1/4	1471U 06 03 13	1471U06 04 13	1471U06 05 13	480	300	100	32	0,160
8	5	R1/4	1471U08 03 13	1471U08 04 13	1471U08 05 13	400	500	100	42	0,200
10	7	R1/4	1471U10 03 13	1471U10 04 13	1471U10 05 13	400	500	100	62	0,230
12	8	R3/8	1471U12 03 17	1471U12 04 17	1471U12 05 17	400	500	100	65	0,260

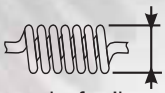
1472U polyester polyurethane recoil tubing, 6 m long, with BSPT thread connections

o.d. tube mm	i.d. tube mm	BSPT thread	Polyurethane recoil tubing, 6 m long			length of long straight section in mm	length of short straight section in mm		kg
8	5	R1/4	1472U08 03 13	1472U08 04 13	1472U08 05 13	650	500	100	42	0,280
10	7	R1/4	1472U10 03 13	1472U10 04 13	1472U10 05 13	680	500	100	62	0,295
12	8	R3/8	1472U12 03 17	1472U12 04 17	1472U12 05 17	700	500	100	65	0,310

dimension symbols for Legris recoil tubing

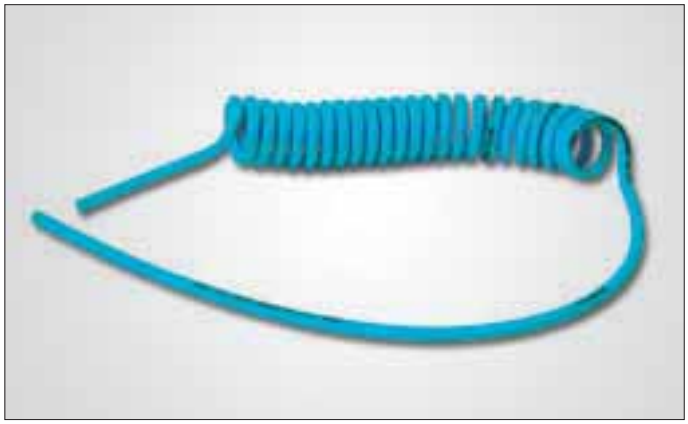

service length in mm


total closed length in mm


o.d. of coil in mm

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

close tolerance polyester polyurethane recoil tubing – without connectors



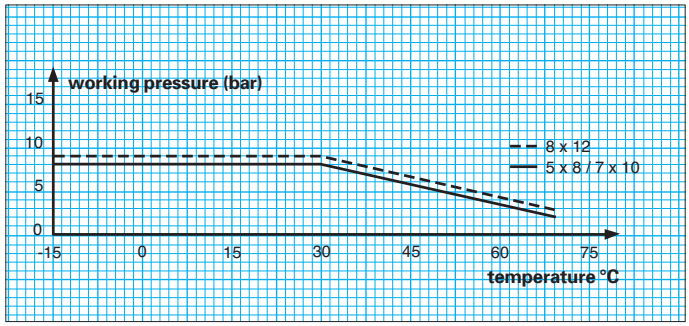
Legris **polyester polyurethane recoil tubing – without connectors** is perfectly suited for installations requiring flexibility within a reduced space, thanks to its small coil diameters. Perfectly suited to Legris push-in fittings with protection rings, it enables safe and easy manipulation of pneumatic machinery.
With a surface hardness of 52 shore D, conforming to NFE 49.101 standard.

O.D. of tube	tolerances on o.d.	
8 mm	+0,10	-0,10
10 to 12 mm	+0,15	-0,15

Technical characteristics of Legris polyester polyurethane recoil tubing also depend on the type of connection used.

pressure and temperature resistance of Legris close tolerance polyester polyurethane recoil tubing - without connectors

In the adjacent graph, each curve represents the acceptable maximum working pressure at a given temperature, by diameter,
Ex: polyurethane recoil tubing, Ø 8x12, at 20°C, maximum working pressure = 9 bar



1460U polyester polyurethane recoil tubing –without connectors, 2m long

o.d. tube mm	i.d. tube mm	polyurethane recoil tubing –without connectors, 2m long		length of long straight section in mm	length of short straight section in mm		kg
8	5	1460U08 04	190	500	100	42	0,064
10	7	1460U10 04	190	500	100	62	0,122
12	8	1460U12 04	200	500	100	65	0,172

1461U polyester polyurethane recoil tubing –without connectors, 4m long

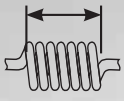
o.d. tube mm	i.d. tube mm	polyurethane recoil tubing –without connectors, 4m long		length of long straight section in mm	length of short straight section in mm		kg
8	5	1461U08 04	400	500	100	42	0,128
10	7	1461U10 04	400	500	100	62	0,244
12	8	1461U12 04	400	500	100	65	0,344

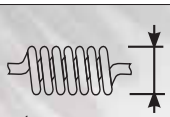
1462U polyester polyurethane recoil tubing –without connectors, 6m long

o.d. tube mm	i.d. tube mm	polyurethane recoil tubing –without connectors, 6m long		length of long straight section in mm	length of short straight section in mm		kg
8	5	1462U08 04	650	500	100	42	0,192
10	7	1462U10 04	680	500	100	62	0,246
12	8	1462U12 04	700	500	100	65	0,280

dimension symbols for Legris recoil tubing


service length (in mm)


total closed length (in mm)


Ø OD of coil (in mm)

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

push-in fittings with protection springs

Legris push-in fittings with protection springs comprise LF3000® fittings and a polymer protection spring. Used in conjunction with polyurethane recoil tubing – without connectors, they prevent damage to equipment and tubing.

fluid: compressed air

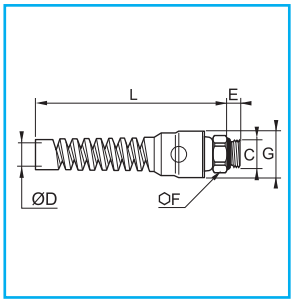
working pressure: 1 to 20 bar

working temperature: - 20° to + 60°C

constituent materials:

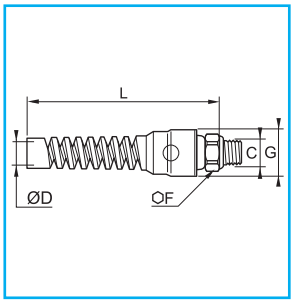
- protection spring: reinforced polymer
- fitting: nickel-plated brass
- models BSP parallel: **sealing 'O' ring**: nitrile
  models BSP taper: thread: precoating

0694 push-in fitting with protection spring, BSP parallel



C	ØD		E	F	G	L	kg
G1/4	8	0694 08 13	6,5	16	24	104,5	0,101
G1/4	10	0694 10 13	6,5	18	24	106,5	0,105
G3/8	12	0694 12 17	7,5	20	29,5	126	0,106

0695 push-in fitting with protection spring, BSP taper



C	ØD		F	G	L	kg
R1/4	8	0695 08 13	14	24	104,5	0,101
R1/4	10	0695 10 13	18	24	106,5	0,105
R3/8	12	0695 12 17	20	29,5	126	0,106

You will also find in the Quick Acting Couplers section, C 9000 probes and bodies suitable for use with polyurethane recoil tubing – without connectors.

anti-spark tubing

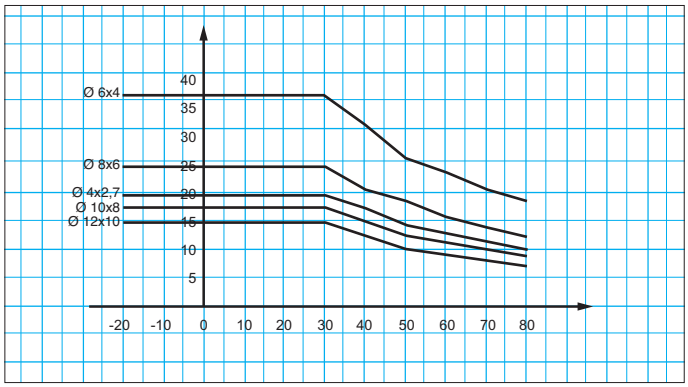
Legris **anti-spark tubing** conforms to **UL94 VO** standard and is suitable for installations submitted to aggressive environments, providing resistance to spark projections.
3 types of tubing are available :

- **nylon tubing** : designed with a **PVC sheath** and **semi-rigid nylon tubing** (tolerance 1 mm +/-0,1), providing excellent resistance to spark projections and high pressure. Perfectly adapted for use with Legris LF 6000 instant anti=spark fittings.
- **polyurethane tubing** : designed with a **PVC sheath** and **polyether polyurethane tubing** (tolerance 1 mm +/-0,1), providing excellent resistance to spark projections and high pressure. Perfectly adapted for use with Legris LF 6000 instant anti-spark fittings.
- **single layer polyether polyurethane tubing** : provides excellent humidity and spark projection resistance. Perfectly suitable for use with Legris LF 3600 instant fittings.

Chart of required sheath-removal lengths for connecting sheathed tubings to LF 3600 and LF 6000 instant fittings.

o.d. tube (mm)	Sheath length and tolerances (mm)	
	LF6000	LF3600
Diam 4	14± 1	15± 1
Diam 6	16± 1	18± 1
Diam 8	19.5± 1	19± 1
Diam 10	23.5± 1	24± 1
Diam 12	26.5± 1	25± 1

anti-spark nylon tubing

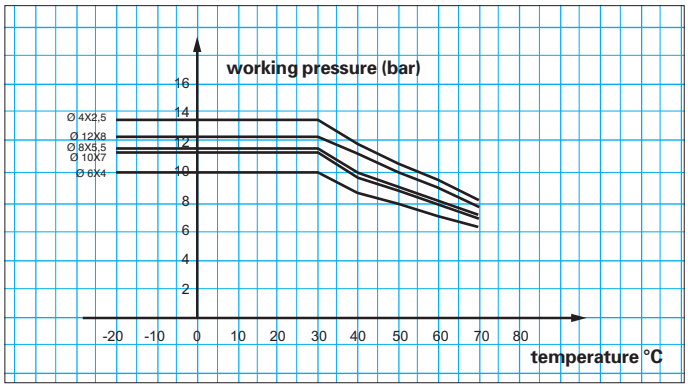


to calculate burst pressure, the values in the above graph should be multiplied x 3

pressure and temperature resistance of anti-spark tubing

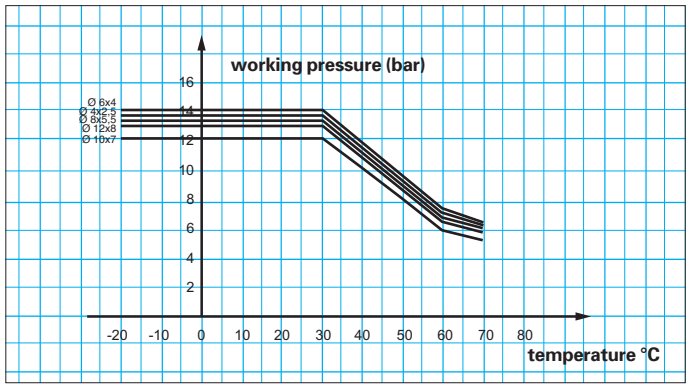
In the adjacent graph, each curve represents the acceptable maximum pressure at a given temperature, by diameter,
Ex: polyurethane tubing, Ø 7x10, at 20°C, maximum pressure = 12 bar

anti-spark single layer polyurethane tubing



to calculate burst pressure, the values in the above graph should be multiplied x 3

anti-spark polyurethane tubing



to calculate burst pressure, the values in the above graph should be multiplied x 3

For correct use of anti-spark polyurethane tubing at high temperatures and pressures, we recommend the use of a ferrule (see model 0127 at the end of this section).

anti-spark tubing

1025P..V anti-spark nylon tubing, in 25 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at 20° C (in mm)					for 25 m
6	4	25	1025P06V01	1025P06V02	1025P06V03	1025P06V04	1,240
8	6	30	1025P08V01	1025P08V02	1025P08V03	1025P08V04	1,700
10	8	55	1025P10V01	1025P10V02	1025P10V03	1025P10V04	2,030
12	10	70	1025P12V01	1025P12V02	1025P12V03	1025P12V04	2,330

1100P..V anti-spark nylon tubing, in 100 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at 20° C (in mm)					for 100 m
6	4	25	1100P06V01	1100P06V02	1100P06V03	1100P06V04	4,980
8	6	30	1100P08V01	1100P08V02	1100P08V03	1100P08V04	6,450
10	8	55	1100P10V01	1100P10V02	1100P10V03	1100P10V04	1,600
12	10	70	1100P12V01	1100P12V02	1100P12V03	1100P12V04	9,460

1025U..V anti-spark polyurethane tubing, in 25 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at 20° C (in mm)					for 25 m
6	4	15	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 polyurethane tubing, in 100 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at 20° C (in mm)					for 100 m
6	4	15	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	15,000

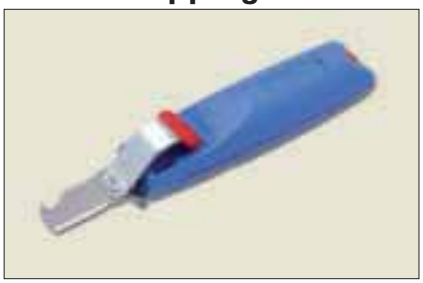
1025U..K anti-spark single layer polyurethane tubing, in 25 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at 20° C (in mm)					for 25 m
4	2,5	10	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

1100U..K anti-spark single layer polyurethane tubing, in 100 m rolls

o.d. tube mm	i.d. tube mm	minimum bend radius for tube at 20° C (in mm)					for 100 m
4	2,5	10	1100U04K01	1100U04K02	1100U04K03	1100U04K04	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

6000 stripping tool



	for 25 m
6000 71 00	0,095

This tool allows easy stripping of the outer tube sleeve.

self-fastening hose

Legris self-fastening hose is constructed with NBR nitrile rubber reinforced with a textile braid on both inner and outer layers. It is designed for automobile process equipment (CNOMO E07.21115N) both for cooling circuits and for many general pneumatic installations.
Used with Legris quick barbed fittings (chapter D) this new range of tubing provides both reliability of self-fastening technology and simplicity of installation.

technical conditions of use

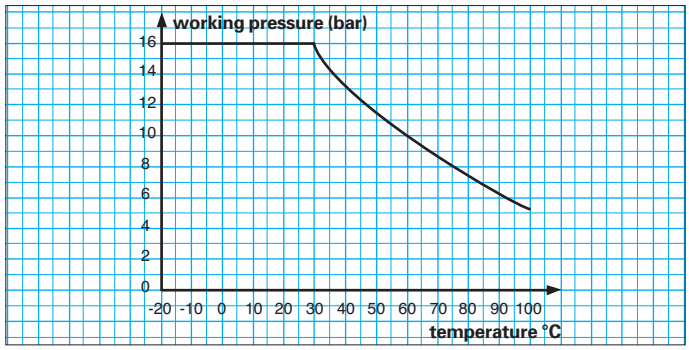
- **installation / dismantling**

Assembly is simple and easy and no collar, no additive (grease, oil…etc) nor preparation time is required.
For correct connection, push the tube fully home against the shoulder of the fitting.
Dismantling should be done by cutting the tube with a knife on the barbed side of the fitting.

- **a single installation tool for all models**

An automatic installation tool that reduces the effort required to connect self-fastening hose onto a barbed sleeve. It is easy to manipulate and has been designed for use with five different diameters. Do not hesitate to contact us for further details.

temperature and pressure resistance of Legris self-fastening hose



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

main advantages of Legris self-fastening tubing
- reliable technology, easy installation
- ozone resistant :
  - external resistance conforms to NFT 46-019-1
  - internal resistance conforms to NFT 47252
- guaranteed silicone free
- excellent resistance to hydrocarbons, welding sparks and abrasion
- available in 4 standard colours
- packed on drums for easy handling (1020H models packed in tubepack ® boxes)

1020H self-fastening hose

DN	i.d. tube mm	o.d. tube mm	R min. bend radius at 20°C (mm)	Max. working pressure in bar at 20°C	burst pressure in bar at 20°C
1/4 6	6,3	13	60	16	60
3/8 8	9,5	16	70	16	60
1/2 12	12,7	19	120	16	60
5/8 16	15,9	23	140	16	60
3/4 20	19,1	27	170	16	60

self-fastening hose, in 20 m rolls	
1020H56 02	1020H56 03
1020H60 02	1020H60 03
1020H62 02	1020H62 03
1020H66 02	1020H66 03
1020H69 02	1020H69 03

1040H self-fastening hose

DN	i.d. tube mm	o.d. tube mm	R min. bend radius at 20°C (mm)	Max. working pressure in bar at 20°C	burst pressure in bar at 20°C
1/4 6	6,3	13	60	16	60
3/8 8	9,5	16	70	16	60
1/2 12	12,7	19	120	16	60
5/8 16	15,9	23	140	16	60
3/4 20	19,1	27	170	16	60

self-fastening hose, in 40 m rolls			
1040H56 01	1040H56 02	1040H56 03	1040H56 04
1040H60 01	1040H60 02	1040H60 03	1040H60 04
1040H62 01	1040H62 02	1040H62 03	1040H62 04
1040H66 01	1040H66 02	1040H66 03	1040H66 04
1040H69 01	1040H69 02	1040H69 03	1040H69 04

1080H self-fastening hose

DN	i.d. tube mm	o.d. tube mm	R min. bend radius at 20°C (mm)	Max. working pressure in bar at 20°C	burst pressure in bar at 20°C
5/8 16	15,9	23	140	16	60
3/4 20	19,1	27	170	16	60

self-fastening hose, in 80 m rolls			
1080H66 01	1080H66 02	1080H66 03	1080H66 04
1080H69 01	1080H69 02	1080H69 03	1080H69 04

1100H self-fastening hose

DN	i.d. tube mm	o.d. tube mm	R min. bend radius at 20°C (mm)	Max. working pressure in bar at 20°C	burst pressure in bar at 20°C
1/4 6	6,3	13	60	16	60
3/8 8	9,5	16	70	16	60
1/2 12	12,7	19	120	16	60

self-fastening hose, in 100 m rolls			
1100H56 01	1100H56 02	1100H56 03	1100H56 04
1100H60 01	1100H60 02	1100H60 03	1100H60 04
1100H62 01	1100H62 02	1100H62 03	1100H62 04

3000 71 11 tube cutter for self-fastening hoses

	kg
3000 71 11	0,227

for hoses from o.d. 12 to 25 mm.
spare blade: 3000 71 11 05

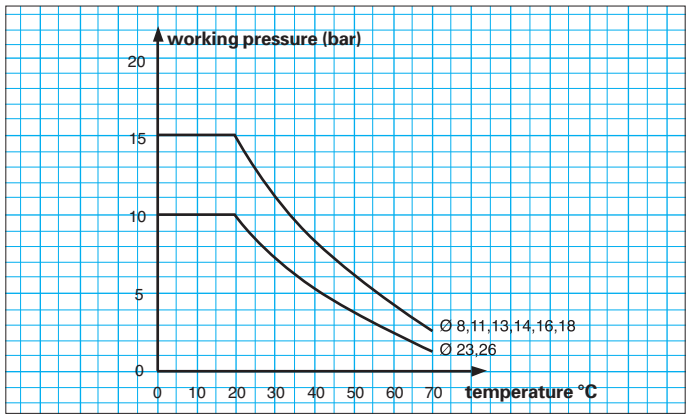
braided PVC hose

Translucent Legris braided PVC hose comprises a polyester fibre mesh sandwiched between two layers of polymer.
It has a wide variety of applications.
It is food quality and is suitable for use with milk, beer, water, wine, etc.
It is translucent which allows a visual check on fluid flow, cleanliness inside the tube, airlocks etc.

Technical characteristics of Legris braided PVC hose also depend on the type of connection used.

pressure and temperature resistance of Legris braided PVC hose

In the adjacent graphic, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
example : braided PVC hose, o.d. 13 , at 20°C,
maximum pressure = 15 bar



to calculate **burst pressure**, the values in the above graph should be multiplied x 3

1025V-1050V braided PVC hose, 25 metre and 50 metre rolls

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at 20° C (in mm)	Braided PVC hose in 25 m rolls	kg for 25 m	Braided PVC hose in 50 m rolls	kg for 50 m
8	4	10	1025V08 00 04	1,260	1050V08 00 04	2,500
11	6	12	1025V11 00 06	2,100	1050V11 00 06	4,200
13	7	14	1025V13 00 07	2,820	1050V13 00 07	5,600
14	8	16	1025V14 00 08	3,065	1050V14 00 08	6,000
16	10	25	1025V16 00 10	3,200	1050V16 00 10	6,400
18	12	30	1025V18 00 12	4,120	1050V18 00 12	8,250
23	15	40	1025V23 00 15	6,300	1050V23 00 15	12,600
26	19	60	1025V26 00 19	7,800	1050V26 00 19	15,600

= suitable for food applications

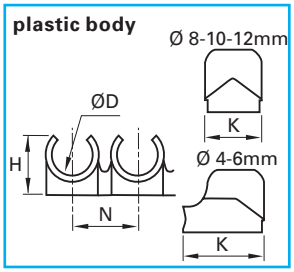
We recommend the use of hose clip 0697 (page K25) when PVC braided hose is connected to a barbed fitting

advantages of Legris braided PVC hose

- food quality
- translucent for visual checking of fluid flow
- flexibility
- good ageing
- numerous applications
- silicone free

Clip clip strips for tubes

plastic body

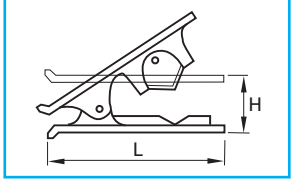


ØD		H	K	N	Number of clips per strip	Ø LF3000 to be clipped	kg
4	Clip 04 00	9	13,5	10,5			0,008
6	Clip 06 00	10,5	13	10,5	8		0,009
8	Clip 08 00	12,5	10,5	12	7	4	0,009
10	Clip 10 00	14	12	15	6	6	0,010
12	Clip 12 00	16,5	14	16,5	5		0,011
14	Clip 14 00	18	16	20,5	4	8	0,011

Delivered in boxes of 10 strips of the same diameter (complete with self-tapping screws of 9.5 mm length).

3000 71 00 tube cutter

plastic body

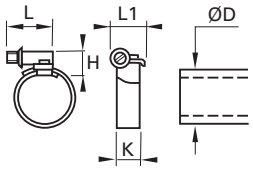


	H	L	kg
3000 71 00	25	79	0,029

This tool will cut all resilient plastic tube (e.g. nylon, FEP 140, polyurethane, braided PVC, soft rubber, etc.) from 4mm to 14mm diameter inclusive. It is designed to give a clean cut at right angles to the tube axis. A spring maintains the cutter in the closed position. Replacement blades are available - part number 3000 71 00 05 - see page K23

0697 clip for PVC braided tube

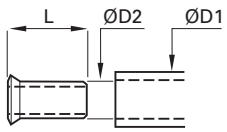
band - steel - zinc plated



ØD min-max		H	K	L	L1	kg
6-11	0697 00 01	7	5	12	7	0,003
10-16	0697 00 02	12	9	21	13	0,010
12-22	0697 00 03	12	9	21	13	0,010
16-27	0697 00 04	12	9	24	13	0,014
20-32	0697 00 05	12	9	24	13	0,014

0127 ferrule for plastic tube

brass



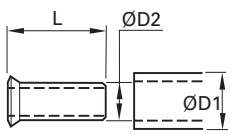
L dimensions can be found on page E20

ØD1	ØD2		kg
4	2	0127 04 00	0,001
4	2,7	0127 04 27	0,001
5	3	0127 05 03	0,001
5	3,3	0127 05 00	0,001
6	4	0127 06 00	0,001
8	5,5	0127 08 55	0,001
8	6	0127 08 00	0,001
10	7	0127 10 07	0,002
10	7,5	0127 10 75	0,002
10	8	0127 10 00	0,002
12	8	0127 12 08	0,002
12	9	0127 12 09	0,002
12	10	0127 12 00	0,002
14	11	0127 14 11	0,003
14	12	0127 14 00	0,003
15	12	0127 15 12	0,003
16	13	0127 16 13	0,003
18	14	0127 18 14	0,004
20	15	0127 20 15	0,004
22	16	0127 22 16	0,005
25	19	0127 25 19	0,005

This ferrule guarantees good gripping, at high temperatures and pressures, by preventing collapsing of the tube.

1827 ferrule for fluoropolymer tubing

stainless steel



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	0,002
12	10	1827 12 00	18	0,002
16	14	1827 16 00	18	0,003

This ferrule is necessary when using fluoropolymer FEP at all temperatures compatible with the fitting/tube assembly.

Legris clips are designed to fix Legris tubing in the minimum of space.
Their presentation in strips, which can be separated either by hand
or with a tube cutter, enables the use of 1 to 8 clips depending on the user's needs.

application table for Legris nylon and polyurethane tubing

1 recommended

2 satisfactory

3 inappropriate

NYLON TUBING

	at 20° C		at 20° C
Acetaldehyde	1	Kerosene	1
Acetone	1	Methane	1
Acetylene	1	Methyl Acetate	1
Benzene	1	Methyl Alcohol (pure)	1
Bleach	2	Methyl Bromide	1
Bromine	3	Methyl Chloride	1
Butane	1	Methyl Ethyl Ketone	1
Butyl Acetate	1	Methyl Isobutyl Ketone	1
Butylic Alcohol	1	Oxygen	1
Calcium Chloride	1	Ozone	2
Carbon Tetrachloride	3	Perchlorate Ethylene	2
Chloride (Sodium hypochlorite)	3	Phenols	3
Chromic Acid 10%	3	Phosphoric Acid 50 %	1
Citric Acid	1	Potash 50 %	1
Concentrated Ammonia	1	Potassium Nitrate	1
Copper Sulphate	1	Potassium Sulphate	1
Cutting Oils	1	Propane	1
Cyclohexane	1	Soda 50 %	1
Cyclohexanone	1	Sodium Carbonate	1
Diesel Oil	1	Sodium Chloride	1
Ethyl Acetate	1	Sulphuric Acid 10%	1
Ethyl Alcohol (pure)	1	Sulphurous Anhydride	2
Ethyleneoxide	1	Supergrade Petrol	1
Freon 12-22	1	Toluene	1
Formalin	1	Tributylphosphate	1
Gaseous Ammonia	1	Trichlorethane	1
Glucose	1	Trichlorethylene	2
Hydrochloric Acid 10 %	1	Water	1
Hydrogen	1	Xylem	1
Hydrogen Peroxide (Perydrol)	1	Zinc Chloride	1

application table for Legris nylon and polyurethane tubing

1 recommended

2 satisfactory

3 inappropriate

POLYURETHANE TUBING

	Polyether base at 20°C	Polyester base at 20 °C
Acetic Acid	1	3
Acetone	3	1
Ammonia	1	3
Ammonium Chloride 10 %	1	1
ASTM – Fuel oil A	1	1
ASTM – Fuel oil B	2	1
ASTM – Fuel oil C	2	1
ASTM – Oil 1	1	1
ASTM – Oil 2	1	1
ASTM – Oil 3	1	1
Benzene	3	3
Butane	1	1
Butyl Acetate	3	2
Butyl Alcohol	2	2
Carbon Tetrachloride	3	2
Caustic Soda (Sodium hydroxide)	1	2
Chloroform	3	3
Chromic Acid 3n	3	3
Cyclohexanone	3	3
Diesel Oil	1	1
Distilled Water	1	3
Ethanol	2	2
Ethyl Acetate	2	2
Freon 12-22	2	2
Glycol Without H_20	1	1
Hexachloride	2	1
Hydrochloric Acid 3n	1	3
Hydrogen Peroxide 3 %	1	1
Kerose N	1	1
Magnesium Chloride 10 % and 30 %	1	2

application table for Legris nylon and polyurethane tubing

1 recommended

2 satisfactory

3 inappropriate

POLYURETHANE TUBING

	Polyether base at 20°C	Polyester base at 20 °C
Methane	1	1
Methanol	1	3
Methyl Acetate	2	2
Methyl Ethyl Ketone	3	3
Methyl Glycol	3	3
Nitric Acid 3n	3	3
Ozone	1	1
Paraffin Oil	1	1
Perchlorate Ethylene	2	2
Phosphoric Acid 3n	2	3
Potassium Chloride 10 % and 40 %	1	2
Potassium Manganate 5 %	3	2
Propane	1	1
Sea Water	1	3
Sodium Chloride	1	2
Sulphuric Acid 3n maxi 10 %	1	3
Sulphuric Acid 13 PH	2	3
Tetrachloroethylene	2	2
Toluene	2	2
Trichlorethylene	3	3
Xylem	2	2

quick acting couplers

legris connectic

quick acting couplers

Each installation has its own characteristics and requirements. **Legris quick acting couplers** meet the majority of user's requirements. Numerous potential applications, proven performance and reliability are advantages provided by all models within the Legris range.

metal quick acting couplers

- for compressed air, water and vaccum
- passage from 2 mm to 19 mm
- flow capacities up to 8500 Nl/min (300 cfm)
- working pressure up to 35 bar
- models with **very high flow (Ultra-Flow)** and providing an **economical** source of power
- 3 types of sealing function :
  straight through, single and double shut-off

C 9000 advanced quick acting safety couplers in polymer HR

- for compressed air
- compliance with **ISO 4414** and **EN 983** safety standards
- interchangeability ensured by probe profiles **ISO B**, **European 7,2** and **ARO**.
- flow capacities up to 2500 Nl/min (85 cfm)
- working pressure up to 16 bar
- easy operation due to light weight and effortless connection

metal quick acting couplers for plastic injection and die casting moulds

- designed for last mould interchange
- **numerous types** of connection
- comfortable operation
- "one hand" connection
- thumb latch **ergonomic** design
- technical performance

Legris also offers a range of **all fluids quick acting couplers**.Do not hesitate to consult us.

the complete range of quick acting couplers

C 9000 advanced quick acting safety couplers in polymer HR

Series ISO B6
flow 1250 Nl/min
passage 5,5 mm
page L6

Series ISO B8
flow 2400 Nl/min
passage 8 mm
page L7

Series Euro
flow 2000 Nl/min
passage 7,2 mm
page L8

Series ARO
flow 1250 Nl/min
passage 5,5 mm
page L9

snap connectors

7926
body
page L11

7921
body
page L11

7960
probe
page L11

7961
probe
page L11

metal quick acting couplers

Series 13
flow 1150 Nl/min
passage 7,5 mm
page L16

Series 14
flow 700 Nl/min
passage 5 mm
page L17

Series 17
flow 870 Nl/min
passage 5 mm
page L18

Series 18
flow 950 Nl/min
passage 5,5 mm
page L19

Series 19
flow 660 Nl/min
passage 5,5 mm
page L20

Series 20
flow 165 Nl/min
passage 2,7 mm
page L21

Series 21
flow 530 Nl/min
passage 5 mm
page L22

Series 22
flow 1000 Nl/min
passage 5,5 mm
page L23

Series 23
flow 1250 Nl/min
passage 5,5 mm
page L24

Series 24
flow 800 Nl/min
passage 5,5 mm
page L25

Series 25
flow 1700 Nl/min
passage 7,4 mm
page L26

Series 26
flow 1000 Nl/min
passage 7,2 mm
page L27

Series 27
flow 3500 Nl/min
passage 10 mm
page L28

Series 30
flow 1400 Nl/min
passage 8,5 mm
page L29

Series «mini»
flow 2mm and 3mm
page L30

Series «standard»
flow 480 Nl/min
passage 5 mm
page L31

Series «midi»
flow 2200 Nl/min
passage 12 mm
page L32 et L33

Series «maxi»
flow 8500 Nl/min
passage 19 mm
page L34

accessories for quick acting couplers

9071
oscillating fittings
page L35

9070
oscillating fittings
page L35

0692
flexible fittings
page L35

0691
flexible fittings
page L35

0680
multiple tee, 2 outlets
page L36

0681
multiple tee, 3 outlets
page L36

quick acting couplers in stainless steel AISI 316L

Series X20
page L38

Series X21
page L39

Series X25
page L40

Series X27
page L41

quick release mould couplers

9020T
body with hosetail
page L43

9040T
body BSP parallel
page L43

9021T
90° elbow
page L43

9041T
90° elbow
page L43

9042T
45° elbow
page L43

9075T
female socket
page L43

principle of C 9000 advanced quick acting safety couplers

C 9000 advanced quick acting safety couplers have been designed for pneumatic installations which require frequent connection or disconnection, safely, quickly and without tools, whether two hoses or a single hose and connection point.
Extensive research and careful **design** have enabled **Legris** to provide meaningful benefits to end users through a combination of innovation and proven reliability.
C 9000 advanced quick acting safety couplers comply with **ISO 4414** and **EN 983 Safety** standards since disconnection is by a double twist of the sleeve: a **safety** feature that breaks deliberately with common practice in order to avoid accidental disconnection.
The **light weight** materials and improved hand grip, thanks to moulded ridges on the coupler body, ensure maximum **comfort** and ease of use for the end-user. C 9000 technical features ensure optimal flow volume efficiency of pneumatic machines and air tools.
C 9000 is protected by several **international patents**.

Technical conditions of use

These vary according to the nature of the fluid, the thickness of the tube, room temperature, the working temperature of the fluid and the suitability of constituent material.
Please consult us regarding your specific operating conditions to ensure optimum product selection.

For the connection of body and probe, no rotation of the sleeve is required.

fluid	compressed air	
working pressure	0 to 16 bar Maximum pressure of a circuit depends on the nature and thickness of the tube.	
working temperature	– 20° to + 60°C The temperature of a circuit also depends on the nature and type of the tubing.	
materials	**body:**	reinforced polymer ARO profile: zamac
	sleeve:	reinforced polymer
	sub-base:	nickel-plated brass
	spring:	stainless steel
	balls:	stainless steel
	'O' Ring:	nitrile
	probe:	steel
	adaptor:	nickel-plated brass and reinforced polymer

Main advantages of C 9000 advanced quick acting safety couplers

100% safety

Even if disconnection is performed rapidly, the safety of the end-user is guaranteed thanks to a **very short vent-time**. Examples:

- for ISO B6 profile C 9000 couplers with recoil tubing (6 mm i.d) 6 m long, time to vent (from 6 bar to 0,2 bar) = **350 ms**
- for ISO B8 profile C 9000 couplers with PVC hose (10 mm i.d) 25 m long, time to vent (from 6 bar to 0,2 bar) = **860 ms**

Even with longer lengths of tube, the vent-time of C 9000 couplers can be less than 1 second.

safe disconnection

- rotation in direction of the arrow=circuit flushed out probe side.
- rotation in direction of the arrow=disconnection of body and probe.

total protection of equipment

The C 9000 range includes couplers with a spiral **polymer protection spring**

- prevents surface scratches on equipment and bodywork
- stops tube from kinking

guaranteed interchangeability

C 9000 has been designed to be directly interchangeable with many other manufacturers, meeting common worldwide standards: **ISO B**, **European 7,2** and **ARO**.

superior technological performance

- very high flow and extremely small pressure loss
- perfectly controlled sealing
- high impact composite material resistant to shocks and scratching
- excellent mechanical strength: extending lifetime performance and reliability
- virtually effortless connection and disconnection
- superior energy efficiency

immediate identification

For immediate visual identification, each model has clear **marking** which indicates:

- the compatible probe profile
- the part number of the coupler body (for restocking)

C 9000 advanced quick acting safety couplers — ISO B6

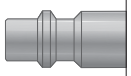
flow : 1250 Nl/min (44 cfm)

passage : 5,5 mm

SAFETY

Interchangeable with

CEJN 310
Rectus 23-24
US MIL.C4109



9401U male body, BSP parallel

C		kg
G1/4	9401U06 13	0,075
G3/8	9401U06 17	0,095
G1/2	9401U06 21	0,115

9405U male body, BSP taper

C		kg
R1/4	9405U06 13	0,075
R3/8	9405U06 17	0,095
R1/2	9405U06 21	0,110

9414U female body, BSP parallel

C		kg
G1/4	9414U06 13	0,070
G3/8	9414U06 17	0,085
G1/2	9414U06 21	0,115

9410U body with LF 3000® outlet, with spiral protection spring

ØD		kg
8	9410U06 08	0,096
10	9410U06 10	0,080

9421U body with hosetail

ØD		kg
6	9421U06 06	0,070
8	9421U06 08	0,070
10	9421U06 10	0,070

9416U female body panel mountable, BSP parallel

C		kg
G1/4	9416U06 13	0,105

9087U male thread, BSP parallel

C		kg
G1/4	9087U06 13	0,023
G3/8	9087U06 17	0,032
G1/2	9087U06 21	0,039

9086 female thread, BSP parallel

C		kg
G1/4	9086 23 13	0,025
G3/8	9086 23 17	0,025
G1/2	9086 23 21	0,038

9080U probe with LF 3000® outlet, with spiral protection spring

ØD		kg
8	9080U06 08	0,052
10	9080U06 10	0,044

9094U probe with hosetail

ØD		kg
6	9094U06 06	0,015
8	9094U06 08	0,017
10	9094U06 10	0,025

9090U probe with hosetail

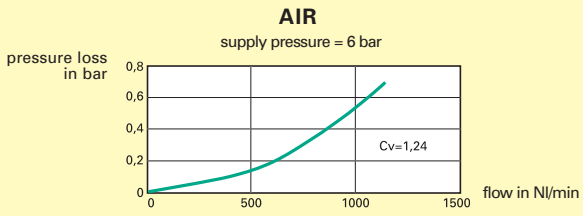
9090U06 01	**ISO C6** to **ISO B6** black
9090U06 03	**PCL** to **ISO B6** red

9440U female Y body, BSP parallel

C		kg
G3/8	9440U06 17	0,207

Flow curves – Pressure loss

Maximum working pressure = 16 bar



C 9000 advanced quick acting safety couplers ISO B8

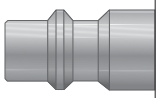
flow : 2400 Nl/min (85 cfm)

passage : 8 mm

SAFETY

Interchangeable with

CEJN 430
Rectus 30
US MIL.C4109



9401U male body, BSP parallel

C		kg
G1/4	9401U08 13	0,120
G3/8	9401U08 17	0,133
G1/2	9401U08 21	0,140

9405U male body, BSP taper

C		kg
R1/4	9405U08 13	0,120
R3/8	9405U08 17	0,120
R1/2	9405U08 21	0,140

9414U female body, BSP parallel

C		kg
G1/4	9414U08 13	0,127
G3/8	9414U08 17	0,144
G1/2	9414U08 21	0,138

9410U body with LF 3000® outlet, with spiral protection spring

ØD		kg
10	9410U08 10	0,175
12	9410U08 12	0,162

9421U body with hosetail

ØD		kg
8	9421U08 08	0,100
10	9421U08 10	0,124
13	9421U08 13	0,125

9416U female body panel mountable, BSP parallel

C		kg
G3/8	9416U08 17	0,150

9087U male thread, BSP parallel

C		kg
G1/4	9087U08 13	0,030
G3/8	9087U08 17	0,039
G1/2	9087U08 21	0,047

9086 female thread, BSP parallel

C		kg
G1/4	9086 30 13	0,028
G3/8	9086 30 17	0,028
G1/2	9086 30 21	0,041

9080U probe with LF 3000® outlet, with spiral protection spring

ØD		kg
10	9080U08 10	0,095
12	9080U08 12	0,096

9094U probe with hosetail

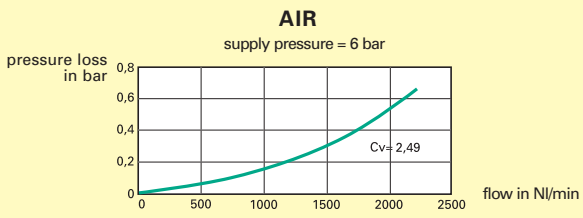
ØD		kg
8	9094U08 08	0,037
10	9094U08 10	0,038
13	9094U08 13	0,042

9440U female Y body, BSP parallel

C		kg
G1/2	9440U08 21	0,352

Flow curves – Pressure loss

Maximum working pressure = 16 bar



C 9000 advanced quick acting safety couplers — Euro interchange

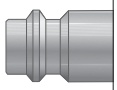
flow : 2000 Nl/min (71 cfm)

passage : 7,2 mm

SAFETY

Interchangeable with

CEJN 320
Rectus 25-26



9401E male body, BSP parallel

C		kg
G1/4	9401E07 13	0,124
G3/8	9401E07 17	0,122
G1/2	9401E07 21	0,136

9087E male thread, BSP parallel

C		kg
G1/4	9087E07 13	0,020
G3/8	9087E07 17	0,026
G1/2	9087E07 21	0,036

9414E female body, BSP parallel

C		kg
G1/4	9414E07 13	0,118
G3/8	9414E07 17	0,109
G1/2	9414E07 21	0,130

9086 female thread, BSP parallel

C		kg
G1/4	9086 25 13	0,023
G3/8	9086 25 17	0,024
G1/2	9086 25 21	0,034

9410E body with LF 3000® outlet, with spiral protection spring

ØD		kg
10	9410E07 10	0,175
12	9410E07 12	0,180

9080E body with LF 3000® outlet, with spiral protection spring

ØD		kg
10	9080E07 10	0,102
12	9080E07 12	0,088

9421E body with hosetail

ØD		kg
8	9421E07 08	0,000
10	9421E07 10	0,114
13	9421E07 13	0,119

9094E probe with hosetail

ØD		kg
8	9094E07 08	0,027
10	9094E07 10	0,032
13	9094E07 13	0,031

9416E female body panel mountable, BSP parallel

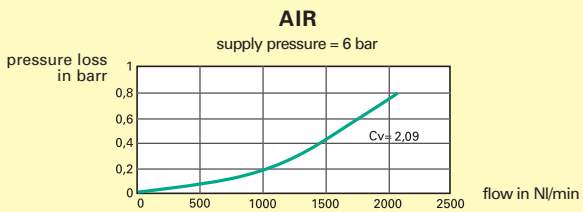
C		kg
G3/8	9416E07 17	0,153

9440E femal Y body, BSP parallel

C		kg
G1/2	9440E07 21	0,335

Flow curves – Pressure loss

Maximum working pressure = 16 bar

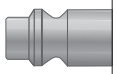


C 9000 advanced quick acting safety couplers ARO interchange
flow : 1250 Nl/min (44 cfm)
passage : 5,5 mm

SAFETY

Interchangeable with

ARO 210
CEJN 300
Orion 44510
Parker 50
Rectus 14-22



9401A male body, BSP parallel

C		kg
G1/4	9401A06 13	0,103
G3/8	9401A06 17	0,123
G1/2	9401A06 21	0,133

9405A male body, BSP taper

C		kg
R1/4	9405A06 13	0,103
R3/8	9405A06 17	0,123
R1/2	9405A06 21	0,128

9414A female body, BSP parallel

C		kg
G1/4	9414A06 13	0,098
G3/8	9414A06 17	0,113
G1/2	9414A06 21	0,133

9410A body with LF 3000® outlet, with spiral protection spring

ØD		kg
8	9410A06 08	0,124
10	9410A06 10	0,108

9421A body with hosetail

ØD		kg
6	9421A06 06	0,098
8	9421A06 08	0,098
10	9421A06 10	0,098

9416A female body panel mountable, BSP parallel

C		kg
G1/4	9416A06 13	0,123

9087A male thread, BSP parallel

C		kg
G1/4	9087A06 13	0,023
G3/8	9087A06 17	0,032
G1/2	9087A06 21	0,039

9084 male thread, BSP taper

C		kg
R1/4	9084 22 13	0,022
R3/8	9084 22 17	0,027
R1/2	9084 22 21	0,052

9086 female thread, BSP parallel

C		kg
G1/4	9086 22 13	0,025
G3/8	9086 22 17	0,025
G1/2	9086 22 21	0,038

9080A probe with LF 3000® outlet, with spiral protection spring

ØD		kg
8	9080A06 08	0,052
10	9080A06 10	0,044

9094A probe with hosetail

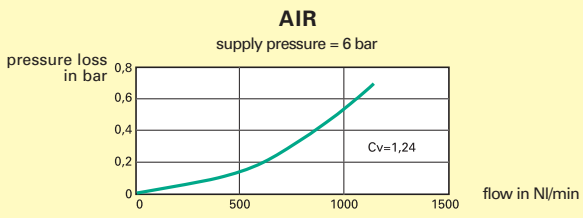
ØD		kg
6	9094A06 06	0,015
8	9094A06 08	0,017
10	9094A06 10	0,025

9440A female Y body, BSP parallel

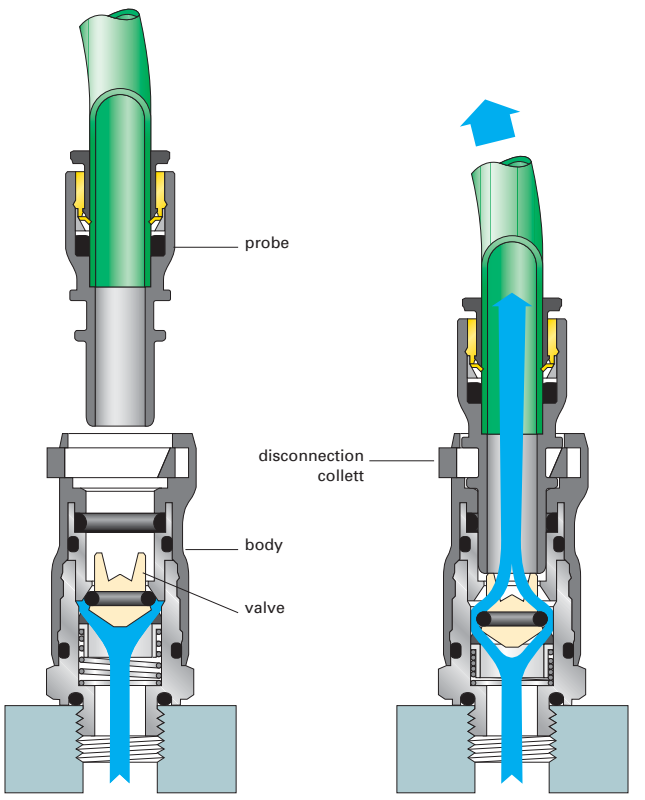
C		kg
G3/8	9440A06 17	0,263

Flow curves – Pressure loss

Maximum working pressure = 16 bar



principle of operation



Legris snap connector fittings are used to isolate a circuit without venting the whole installation. They are designed to facilitate frequent connections/disconnections –in complete **safety**. Connection is confirmed by an audible **« click ».**

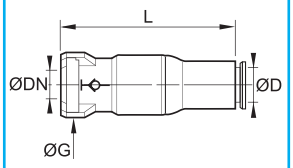
Technical specifications :

Fluid	compressed air	
Maxi pressure	10 bar	
Working temperature	- 20° to + 80°C	
Flow performance	**model**	**Air flow at 6 bar**
	DN 5 mm	1000 Nl/min
	DN 7,3 mm	1900 Nl/min

On request, we can provide :
- other **configurations** : elbow, panel mountable.
- alternate ring colours : yellow, green.

7926 body with LF 3000® connection

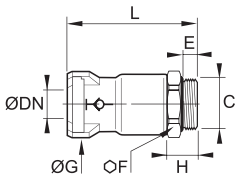
body – polymer H.R.



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 BSP parallel thread

body – polymer H.R.

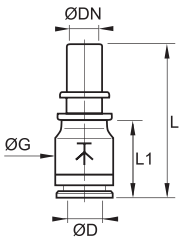


orientable model

C	DN		E	F	G	H	L	kg
G1/8	5	7921 05 10	6	10,5	18,5	16	37	0,022
G1/4	5	7921 05 13	5,5	10	18,5	16	36	0,024
G1/4	7,3	7921 07 13	5,5	20	22	10	43	0,040
G3/8	7,3	7921 07 17	5,5	20	22	10	43	0,042

7960 probe with LF 3000® connection

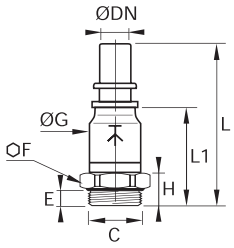
polymer H.R.



ØD	DN		G	L	L1	kg
6	5	7960 05 06	13,5	36,5	17,5	0,009
8	5	7960 05 08	13,5	37	18	0,004
10	7,3	7960 07 10	16	41	20,5	0,008

7961 probe with BSP parallel thread

body polymer H.R.



C	DN		E	F	G	H	L	kg
G1/8	5	7961 05 10	4,5	13	13,5	11	46	0,019
G1/4	5	7961 05 13	5,5	16	13,5	9,5	46	0,020
G1/4	7,3	7961 07 13	5,5	16	16	11,5	51,5	0,025
G3/8	7,3	7961 07 17	5,5	20	16	10,5	43	0,034

metal quick acting couplers

Principle of metal quick acting couplers

In order to suit most applications, Legris offers a complete range of metal **quick acting couplers** for **water, compressed air and vacuum**.

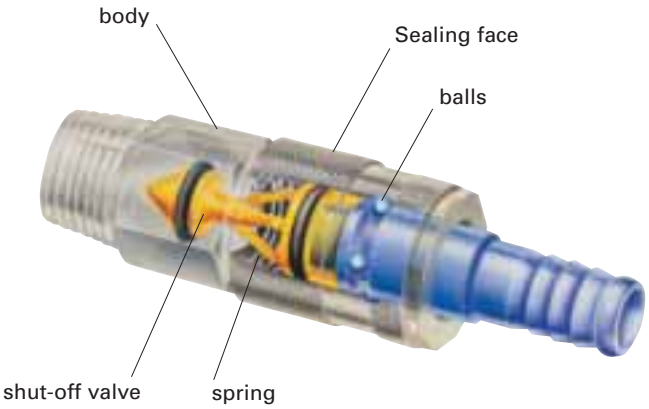
They are easy to install:

- automatic connection by simply inserting the probe into the coupler body, with one hand,
- **instant** disconnection by simply pulling back the sleeve.

Safe and with high- flow performance, this range conforms to international and national standards, allowing interchangeability with many world-wide manufacturers.

technical conditions of use

These vary according to the nature of the fluid, the thickness of the tube, room temperature, the working temperature of the fluid and the constituent materials.



In order to meet the user's needs, Legris can find solutions by proposing special products (seals, constituent materials, surface treatment). Please do not hesitate to consult us.

compatible fluids	Compressed air, vacuum, water and any fluid compatible with the materials used (please refer to the application table on page K14).
working temperature	from –20° to +100°C These limits can vary according to the type of application (nature of fluid, working environment…).
constituent materials	**body :** nickel-plated brass **washer :** nickel-plated brass (series 13-20-21-26) nickl-plated steel (series 18-22-23-25-27) steel and brass (series 17-19-24-14-30) **shut-off valve** : brass **spring** : stainless steel **ball :** stainless steel (stem for series 24-14-30) **"O" ring** : NBR **probe :** nickel-plated brass (series 20-21-mini-standard-maxi) nickel-plated steel (series 13-17-18-19-22-23-24-25-27-30)

metal quick acting couplers

Main advantages of metal quick acting couplers

a wide range

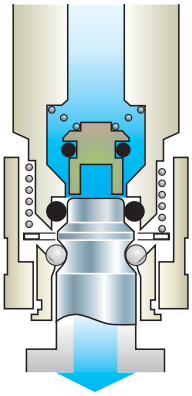
- flow capacities from **165 Nl/min** to **3500 Nl/min** (**5.8 cfm to 123.5 cfm**)
- various types of connection

optimum flow, small pressure loss

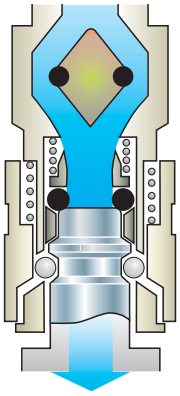
- for small pressure loss, models with "**Ultra-Flow**" technology: with the shut-off valve and spring mounted separate from the fluid passage area, turbulence is eliminated and thus pressure loss is reduced.

Example: input pressure at 6 bar, pressure loss of 0,5 bar
"traditional" quick acting coupler: flow = 1000 Nl/min (35.3 cfm)
«**Ultra-Flow**» quick acting coupler: **flow = 1800 Nl/min** (**63.5 cfm**)

"traditional" quick acting coupler



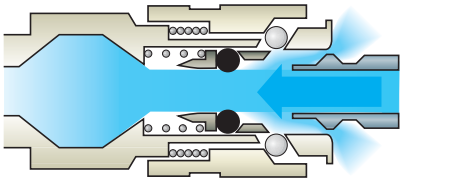
"Ultra-Flo" quick acting coupler



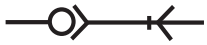
3 sealing functions

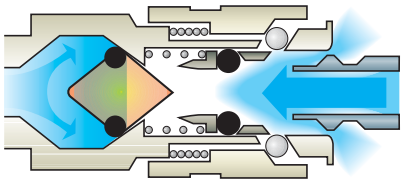
- 3 functions are proposed by Legris to answer users' needs:

straight through



single sealing

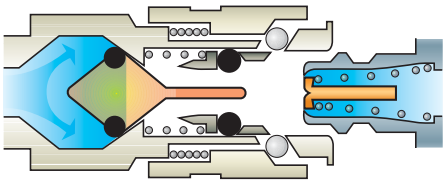




single sealing of body
+ non sealing probe

When disconnected, **the passage of fluid is closed upstream** (body side).

double sealing



double sealing of body
+ sealing probe

When disconnected, **the passage of fluid is closed upstream** (body side) and **downstream** (probe side).

application table for quick acting couplers

The list below indicates the fluids compatible with **Legris** quick acting couplers.
This list is not all-inclusive : if the fluid you are looking for is not mentioned, please consult us.

Acetamide
alcohol-butyl
alcohol-ethyl
alcohol-hexyl
alcohol-propyl
alcohol-stearic
ammonia cold
ammonium chloride
ammonia solution
argon
ASTM n°1 oil
ASTM n°2 oil
ASTM n°3 oil
Calcium carbonate
castor oil
coconut oil
cod liver oil
cotton oil
cyclohexane
Detergents
diesel oil
diethylene glycol
Engine oil
ethane
ethanol
ethylene glycol
ethyl silicate
Flax oil
Gear oil
glycerine
glycerine triacetate
glycol
Helium
heptane N
hexane N
heating oil

hydraulic liquids :
Group-HSA
group-HSB
group-HSD
group-H
group-H-L
group-H-LP
Isododecane
iso-octane
Margarine
methanol
mineral oil
N-heptane
N-hexane
nitrogen
N-pentane
Octadecane
olive oil
Peanut oil
pentane N
petroleum
propylene glycol
Sea water
silicone greases
soap solution
soda
sodium sulphate
soya oil
Trisodium phosphate
turpentine
Vaseline
vegetable oil
Water
wheat oil
wood oil
Zinc chloride

Each application should be considered on its own merits because of the large number of variables present e.g. temperature pressure, fluid, immediate environment. Please therefore consult us or test the application first.

metal quick acting couplers
interchangeability with numerous manufacturers

Legris quick acting couplers have probes that conform to **international standards** and are **interchangeable with numerous manufacturers**.

	flow diameter in mm	probe profile scale 1
series 20	2,7	German standard
series 21	5	German standard
series 17	5	UK standard
series 14 and 22	5 and 5,5	ARO standard
series 18	5,5	ISO C standard
series 19	5,5	UK standard
series 23 and 24	5,5	ISO B6 standard
series 25 and 26	7,4 and 7,2	European standard
series 13	7,5	ASIA standard
series 30	8,5	ISO B8 standard
series 27	10	European standard

metal quick acting couplers
Flow : 1150 Nl/min (40 cfm)
Passage : 7,5 mm

single shut-off

Quick acting couplers **series 13** are designed with a needle gripping system. An O-ring prevents the ingress of dust and its specific design avoids impurities. **Light weight** and with high flow performance, they are suitable for all pneumatic installations..

Cejn 314
Nitto Kohki 200
Rectus 13

9105 male body, BSP taper

C		kg
R1/4	9105 13 13	0,085
R3/8	9105 13 17	0,089
R1/2	9105 13 21	0,108

with shut-off

9084 male probe, BSP taper

C	without shut-off	kg
R1/4	9084 13 13	0,030
R3/8	9084 13 17	0,100
R1/2	9084 13 21	0,051

9114 female body, BSP parallel

C		kg
G1/4	9114 13 13	0,098
G3/8	9114 13 17	0,100
G1/2	9114 13 21	0,108

with shut-off

9086 female probe, BSP parallel

C	without shut-off	kg
G1/4	9086 13 13	0,025
G3/8	9086 13 17	0,024
G1/2	9086 13 21	0,036

9123 body with barbed fitting

ØD		kg
8	9123 13 08	0,084
10	9123 13 10	0,084
13	9123 13 13	0,089

with shut-off

9085 probe with barbed fitting

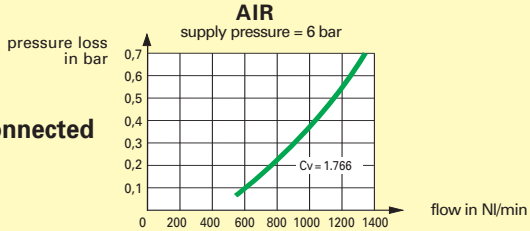
ØD	without shut-off	kg
8	9085 13 08	0,019
10	9085 13 10	0,022
13	9085 13 13	0,025

*You will find the dimensions of **Legris** quick acting couplers at the end of this section.*

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



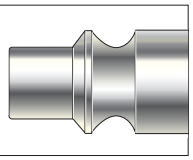
metal quick acting couplers series 14
Flow : 560 Nl/min (25 cfm)
Passage : 5 mm

single shut-off

Equipped with a gripping needle system, **series14** couplers offer the user a very useful economical solution. **Interchangeability** with **series 22** -only one nozzle profile for both series- increases this advantage.

Manufactured from robust materials, series 14 is adapted for all applications and equipment working with compressed air.

Aro 210
Cejn 300
Orion 44510
Parker 50
Rectus 14.22



9101 male body, BSP parallel

C		kg
G1/4	9101 14 13	0,083
G3/8	9101 14 17	0,086
G1/2	9101 14 21	0,096

with shut-off

9084 male thread, BSP taper

C	without shut-off	kg
R1/4	9084 22 13	0,022
R3/8	9084 22 17	0,027
R1/2	9084 22 21	0,052

9114 female body, BSP parallel

C		kg
G1/4	9114 14 13	0,099
G3/8	9114 14 17	0,095
G1/2	9114 14 21	0,102

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/4	9086 22 13	0,026
G3/8	9086 22 17	0,025
G1/2	9086 22 21	0,035

9123 body with barbed fitting

ØD		kg
6	9123 14 06	0,085
8	9123 14 08	0,086
9	9123 14 09	0,086
10	9123 14 10	0,088
13	9123 14 13	0,090

with shut-off

9085 probe with barbed fitting

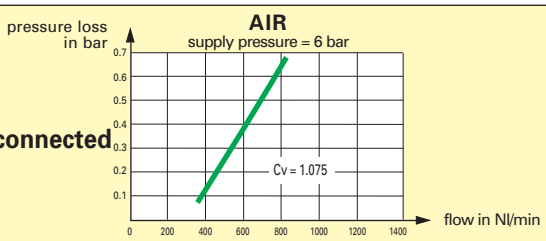
ØD	without shut-off	kg
6	9085 22 06	0,014
8	9085 22 08	0,016
9	9085 22 09	0,015
10	9085 22 10	0,018
13	9085 22 13	0,023

*You will find the dimensions of **Legris** quick acting couplers at the end of this section.*

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability
when **connected** and **disconnected**
vacuum of 650 mm Hg
(87% of vacuum)



Flow : 870 Nl/min (31 cfm)

Passage : 5 mm

single shut-off

Equipped with the « Ultra-Flow » shut-off valve, Series 17 couplers are suited to any application requiring high flow performance and reduced pressure loss. Compact, light weight and easily fitted, they are suited to many industrial applications.

CEJN 317
Rectus 17
Schrader NW5

9105 male body, BSP taper

C		kg
R1/4	9105 17 13	0,112
R3/8	9105 17 17	0,111
R1/2	9105 17 21	0,116

with shut-off

9084 male thread, BSP taper

C	without shut-off	kg
R1/8	9084 17 10	0,016
R1/4	9084 17 13	0,020
R3/8	9084 17 17	0,026
R1/2	9084 17 21	0,027

9114 female body, BSP parallel

C		kg
G1/4	9114 17 13	0,096
G3/8	9114 17 17	0,100
G1/2	9114 17 21	0,135

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/8	9086 17 10	0,016
G1/4	9086 17 13	0,025
G3/8	9086 17 17	0,027
G1/2	9086 17 21	0,030

9123 body with barbed fitting

ØD		kg
6	9123 17 06	0,100
8	9123 17 08	0,100
10	9123 17 10	0,110

with shut-off

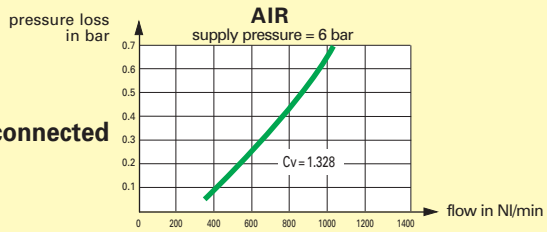
9085 probe with barbed fitting

ØD	without shut-off	kg
6	9085 17 06	0,015
8	9085 17 08	0,016
10	9085 17 10	0,018

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



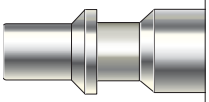
metal quick acting couplers series 18
Flow : 970 Nl/min (34 cfm)
Passage : 5,5 mm

single shut-off

The **«Ultra-Flo»** technology of **series 18** couplers ensures the user **very high flow** with small pressure loss. Series 18 is perfectly suited for numerous types of **installations** and **equipment :**

- **small pneumatic tools**
- **pneumatic automation equipment**
- **blowguns**

ISO 6150
CEJN 291
Rectus 18



9101 male body, BSP parallel

C		kg
G1/4	9101 18 13	0,106
G3/8	9101 18 17	0,106

with shut-off

9087 male thread, BSP parallel

C	without shut-off	kg
G1/4	9087 18 13	0,019
G3/8	9087 18 17	0,025

9114 female body, BSP parallel

C		kg
G1/4	9114 18 13	0,108
G3/8	9114 18 17	0,101

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/4	9086 18 13	0,022
G3/8	9086 18 17	0,015

9123 body with barbed fitting

ØD		kg
6	9123 18 06	0,104
8	9123 18 08	0,106
10	9123 18 10	0,107

with shut-off

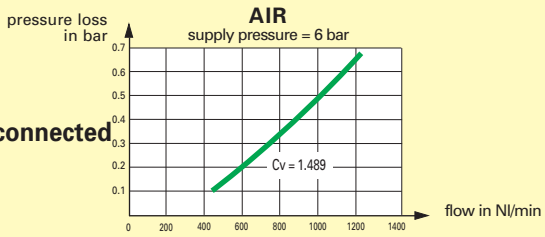
9085 probe with barbed fitting

ØD	without shut-off	kg
6	9085 18 06	0,015
8	9085 18 08	0,012
10	9085 18 10	0,017

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



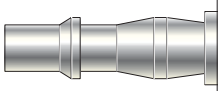
Flow : 660 Nl/min (23 cfm)

Passage : 5,5 mm

single shut-off

Equipped with the « **Ultra-Flow** » shut-off valve, **Series 19** couplers are suited to any application requiring high flow performance and reduced pressure loss. Compact, light weight and easily fitted, they are suited to many industrial applications.

CEJN 295
PCL 60
Rectus 19



9105 male body, BSP taper

C		kg
R1/4	9105 19 13	0,101
R3/8	9105 19 17	0,106
R1/2	9105 19 21	0,116

with shut-off

9084 male thread, BSP taper

C	without shut-off	kg
R1/4	9084 19 13	0,022
R3/8	9084 19 17	0,039
R1/2	9084 19 21	0,043

9114 female body, BSP parallel

C		kg
G1/4	9114 19 13	0,103
G3/8	9114 19 17	0,096
G1/2	9114 19 21	0,130

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/4	9086 19 13	0,025
G3/8	9086 19 17	0,027
G1/2	9086 19 21	0,032

9123 body with barbed fitting

ØD		kg
6	9123 19 06	0,100
8	9123 19 08	0,104
10	9123 19 10	0,101

with shut-off

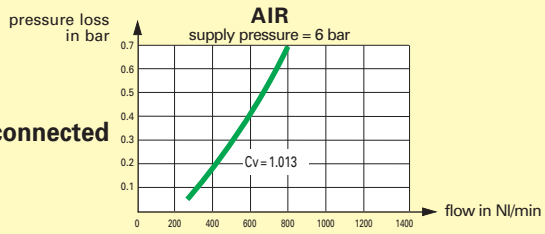
9085 probe with barbed fitting

ØD	without shut-off	kg
6	9085 19 06	0,016
8	9085 19 08	0,019
10	9085 19 10	0,020

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



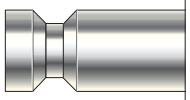
metal quick acting couplers
Flow : 165 Nl/min (5.8 cfm)
Passage : 2,7 mm

series 20
double shut-off
and single shut-off

The smallest of the range, these **miniature** couplers are excellent for use where **space is restricted. Optimum flow** and light sealing, easy **manageability** and compatibility with a **variety of hoses** make them particularly well adapted for the following types of application :

- **medical and dental industries**
- **instrumentation**
- **laboratories**

Rectus 20



9201 male body, BSP parallel and metric

C		kg
M5x0,8	9201 20 19	0,009
G1/8	9201 20 10	0,012

with shut-off

9214 female body, BSP parallel and metric

C		kg
M5x0,8	9214 20 19	0,010
G1/8	9214 20 10	0,014

with shut-off

9226 body with barbed fitting, panel mountable

ØD		kg
3	9226 20 03	0,016
4	9226 20 04	0,017

with shut-off

9287-9087 male thread, BSP parallel and metric

C	with shut-off	kg
M5x0,8	9287 20 19	0,006
G1/8	9287 20 10	0,010

C	without shut-off	kg
M5x0,8	9087 20 19	0,003
G1/8	9087 20 10	0,005

9286-9086 female thread, BSP parallel and metric

C	with shut-off	kg
M5x0,8	9286 20 19	0,008
G1/8	9286 20 10	0,011

C	without shut-off	kg
M5x0,8	9086 20 19	0,003
G1/8	9086 20 10	0,004

9285-9085 probe with barbed fitting

ØD	with shut-off	kg
3	9285 20 03	0,007
4	9285 20 04	0,007
5	9285 20 05	0,007

ØD	without shut-off	kg
3	9085 20 03	0,002
4	9085 20 04	0,002
5	9085 20 05	0,003

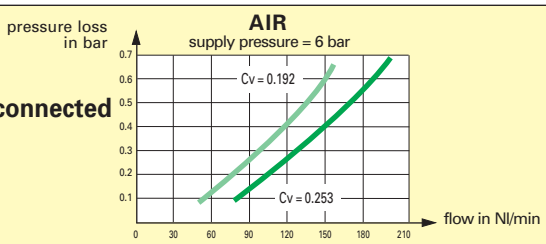
9095 probe with barbed fitting, panel mountable

ØD	without shut-off	kg
3	9095 20 03	0,012
4	9095 20 04	0,012

Flow curves – Pressure loss

Maximum working pressure: 35 bar
vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)

Double shut-off
Single shut-off



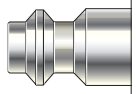
metal quick acting couplers
Flow : 560 Nl/min (19 cfm)
Passage : 5 mm

series 21
double shut-off
and single shut-off

Where **space is a premium, series 21** couplers ensure the user a **very high flow.**
The wide variety of probes allow these couplers many options where space is restricted.

For example :
- **equipment for very small pneumatic tools**
- **control machines, measuring or regulatory devices**
- **pneumatic automation equipment**

Rectus 21



9201 male body, BSP parallel

C		kg
G1/8	9201 21 10	0,027
G1/4	9201 21 13	0,035

with shut-off

9214 female body, BSP parallel

C		kg
G1/8	9214 21 10	0,029
G1/4	9214 21 13	0,040

with shut-off

9223 body with barbed fitting

ØD		kg
4	9223 21 04	0,026
6	9223 21 06	0,027
8	9223 21 08	0,028

with shut-off

9226 body with barbed fitting, panel mountable

ØD		kg
4	9226 21 04	0,033
6	9226 21 06	0,047
8	9226 21 08	0,046

with shut-off

9287-9087 male thread, BSP parallel and metric

C	with shut-off	kg
G1/8	9287 21 10	0,023
G1/4	9287 21 13	0,031

C	without shut-off	kg
G1/8	9087 21 10	0,011
G1/4	9087 21 13	0,019

9286-9086 female thread, BSP parallel

C	with shut-off	kg
G1/8	9286 21 10	0,025
G1/4	9286 21 13	0,035

C	without shut-off	kg
G1/8	9086 21 10	0,014
G1/4	9086 21 13	0,017

9285-9085 probe with barbed fitting

ØD	with shut-off	kg
4	9285 21 04	0,022
6	9285 21 06	0,023
8	9285 21 08	0,023

ØD	without shut-off	kg
4	9085 21 04	0,006
6	9085 21 06	0,008
8	9085 21 08	0,009

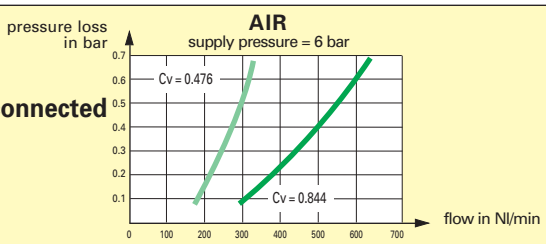
9095 probe with barbed fitting, panel mountable

ØD	without shut-off	kg
4	9095 21 04	0,021
6	9095 21 06	0,026
8	9095 21 08	0,027

Flow curves – Pressure loss

Maximum working pressure: 35 bar
vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)

Double shut-off
Single shut-off



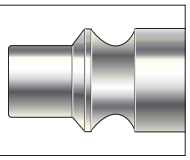
metal quick acting couplers series 22
Flow : 800 Nl/min (35 cfm)
Passage : 5,5 mm
single shut-off

Series 22 couplers ensure the user **high flow** and small pressure loss. Therefore they are perfectly suited for **numerous types of installations and equipment** :

- small pneumatic tools
- pneumatic automation equipment
- blowguns

They are **interchangeable** with **series 14** -only one nozzle profile for both series.

ARO 210
CEJN 300
ORION 44510
Parker 50
Rectus 14.22



9105 male body, BSP taper

C		kg
R1/4	9105 22 13	0,096
R3/8	9105 22 17	0,096
R1/2	9105 22 21	0,112

with shut-off

9084 male thread, BSP taper

C	without shut-off	kg
R1/4	9084 22 13	0,022
R3/8	9084 22 17	0,027
R1/2	9084 22 21	0,052

9114 female body, BSP parallel

C		kg
G1/4	9114 22 13	0,098
G3/8	9114 22 17	0,090
G1/2	9114 22 21	0,123

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/4	9086 22 13	0,026
G3/8	9086 22 17	0,025
G1/2	9086 22 21	0,035

9123 body with barbed fitting

ØD		kg
6	9123 22 06	0,093
8	9123 22 08	0,096
10	9123 22 10	0,097

with shut-off

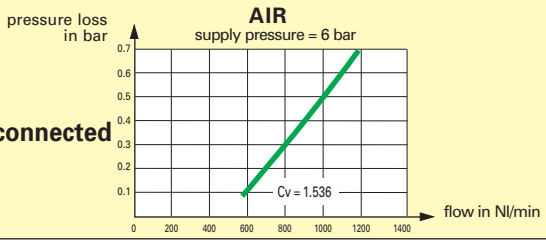
9085 probe with barbed fitting

ØD	without shut-off	kg
6	9085 22 06	0,014
8	9085 22 08	0,016
9	9085 22 09	0,015
10	9085 22 10	0,018
13	9085 22 13	0,023

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



Flow : 1250 Nl/min (44 cfm)

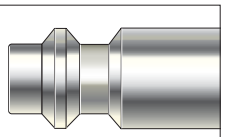
Passage : 5,5 mm

single shut-off

Equipped with the **«Ultra-Flo»** shut-off valve, **series 23** couplers are suited to any application requiring **high flow performance** and reduced pressure loss.

The **«anti whip-lash»** feature of one of the four available probes reinforces user **safety** when disconnecting.

ISO 6150
US.MIL.C 4109
CEJN 310
Rectus 23.24



9101 male body, BSP parallel

C		kg
G1/4	9101 23 13	0,094
G3/8	9101 23 17	0,095
G1/2	9101 23 21	0,112

with shut-off

9087 male thread, BSP parallel

C	without shut-off	kg
G1/8	9087 23 10	0,017
G1/4	9087 23 13	0,023
G3/8	9087 23 17	0,025
G1/2	9087 23 21	0,046

9114 female body, BSP parallel

C		kg
G1/4	9114 23 13	0,098
G3/8	9114 23 17	0,090
G1/2	9114 23 21	0,122

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/8	9086 23 10	0,020
G1/4	9086 23 13	0,025
G3/8	9086 23 17	0,025
G1/2	9086 23 21	0,038

9123 body with barbed fitting

ØD		kg
6	9123 23 06	0,094
8	9123 23 08	0,095
10	9123 23 10	0,096

with shut-off

9085 probe with barbed fitting

ØD	without shut-off	kg
6	9085 23 06	0,016
8	9085 23 08	0,018
10	9085 23 10	0,020

9293 female thread, «anti whip-lash» probe

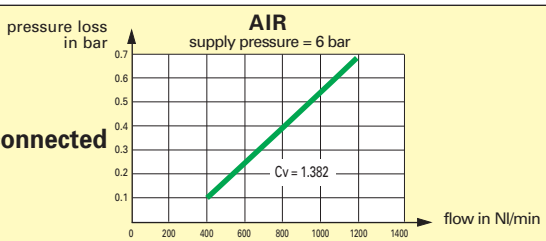
C		kg
G1/4	9293 23 13	0,058

You will find on page L33 a range of flexible fittings interchangeable with series 23..

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



Flow : 800 Nl/min (28 cfm)

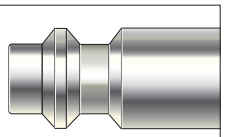
Passage : 5,5 mm

single shut-off

Equipped with a gripping needle system, **series 24** couplers offer the user a very useful economical solution. **Interchangeability** with **series 23** – only one nozzle profile for both series – increases this advantage.

Manufactured with robust materials, series 24 is adapted for all applications and equipment working with compressed air.

ISO 6150
US.MIL.C 4109
CEJN 310
Rectus 23.24



9101 male body, BSP parallel

C		kg
G1/4	9101 24 13	0,086
G3/8	9101 24 17	0,088
G1/2	9101 24 21	0,100

with shut-off

9114 female body, BSP parallel

C		kg
G1/4	9114 24 13	0,102
G3/8	9114 24 17	0,097
G1/2	9114 24 21	0,104

with shut-off

9123 body with barbed fitting

ØD		kg
6	9123 24 06	0,086
8	9123 24 08	0,089
10	9123 24 10	0,100

with shut-off

9087 male thread, BSP parallel

C	without shut-off	kg
G1/8	9087 23 10	0,017
G1/4	9087 23 13	0,023
G3/8	9087 23 17	0,025
G1/2	9087 23 21	0,047

9086 female thread, BSP parallel

C	without shut-off	kg
G1/8	9086 23 10	0,020
G1/4	9086 23 13	0,025
G3/8	9086 23 17	0,025
G1/2	9086 23 21	0,037

9085 probe with barbed fitting

ØD	without shut-off	kg
6	9085 23 06	0,016
8	9085 23 08	0,018
10	9085 23 10	0,020

9293 female thread, «anti whip-lash» probe

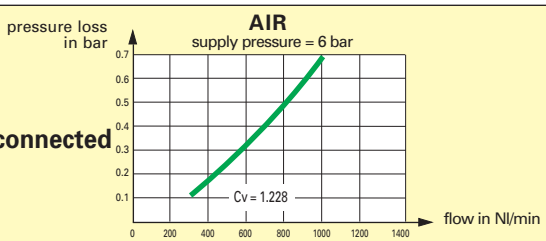
C		kg
G1/4	9293 23 13	0,058

You will find on page L33 a range of flexible fittings interchangeable with series 24.

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability
when **connected** and **disconnected**
vacuum of 650 mm Hg
(87% of vacuum)



metal quick acting couplers
Flow : 1700 Nl/min (60 cfm)
Passage : 7,4 mm

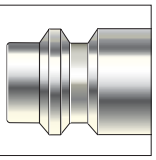
series 25
double shut-off
and single shut-off

Manufactured from **robust** materials (steel 'O' ring), **series** 25 couplers are perfectly suitable to equip **medium size pneumatic tools, mains supply outlets** and **various small machines.** The optimization of flow due to **«Ultra-Flo»** technology gives this range :

- very **high flow**
- very **small pressure loss**
- and, therefore, an **energy cost saving.**

The extensive **variety of probes** allows the user numerous applications.

CEJN 320
Rectus 25.26



9201 male body, BSP parallel

C		kg
G1/4	9201 25 13	0,098
G3/8	9201 25 17	0,097
G1/2	9201 25 21	0,113

with shut-off

9214 female body, BSP parallel

C		kg
G1/4	9214 25 13	0,100
G3/8	9214 25 17	0,093
G1/2	9214 25 21	0,125

with shut-off

9223 body with barbed fitting

ØD		kg
6	9223 25 06	0,095
8	9223 25 08	0,098
10	9223 25 10	0,098
13	9223 25 13	0,102

with shut-off

9293 female thread, «anti whip-lash» probe

C		kg
G3/8	9293 25 17	0,053

9287-9087 male thread, BSP parallel

C	with shut-off	kg
G1/8	9287 25 10	0,045
G1/4	9287 25 13	0,046
G3/8	9287 25 17	0,048
G1/2	9287 25 21	0,055

C	without shut-off	kg
G1/8	9087 25 10	0,019
G1/4	9087 25 13	0,019
G3/8	9087 25 17	0,028
G1/2	9087 25 21	0,047

9286-9086 female thread, BSP parallel

C	with shut-off	kg
G1/8	9286 25 10	0,060
G1/4	9286 25 13	0,062
G3/8	9286 25 17	0,057
G1/2	9286 25 21	0,064

C	without shut-off	kg
G1/8	9086 25 10	0,021
G1/4	9086 25 13	0,023
G3/8	9086 25 17	0,024
G1/2	9086 25 21	0,034

9285-9085 probe with barbed fitting

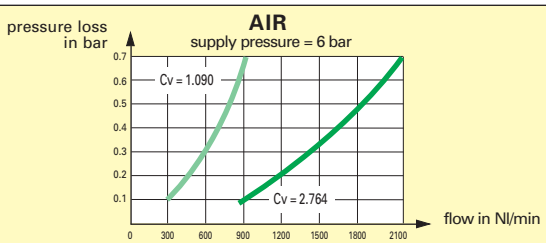
ØD	with shut-off	kg
6	9285 25 06	0,047
8	9285 25 08	0,048
10	9285 25 10	0,049
13	9285 25 13	0,054

ØD	without shut-offe	kg
6	9085 25 06	0,015
8	9085 25 08	0,016
10	9085 25 10	0,018
13	9085 25 13	0,022

Flow curves – Pressure loss

Maximum working pressure: 35 bar
vacuum capability when **disconnected** vacuum of 650 mm Hg (87% of vacuum)

Double shut-off
Single shut-off



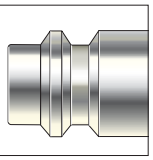
Flow : 1000 Nl/min (35 cfm)

Passage : 7,2 mm

single shut-off

Series 26 couplers are equipped with a gripping needle system. The washer is designed to avoid any danger of interior parts contamination .
Manufactured from **robust** materials, they are **interchangeable** with **series 25** -only one probe profile for both series. They are suitable for all applications and equipment working with compressed air.

CEJN 320
Rectus 25.26



9101 male body, BSP parallel

C		kg
G1/8	9101 26 10	0,083
G1/4	9101 26 13	0,086
G3/8	9101 26 17	0,097
G1/2	9101 26 21	1,010

with shut-off

9087 male thread, BSP parallel

C	without shut-off	kg
G1/8	9087 25 10	0,016
G1/4	9087 25 13	0,019
G3/8	9087 25 17	0,028
G1/2	9087 25 21	0,047

9114 female body, BSP parallel

C		kg
G1/4	9114 26 13	0,099
G3/8	9114 26 17	0,094
G1/2	9114 26 21	0,101

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/8	9086 25 10	0,019
G1/4	9086 25 13	0,023
G3/8	9086 25 17	0,024
G1/2	9086 25 21	0,039

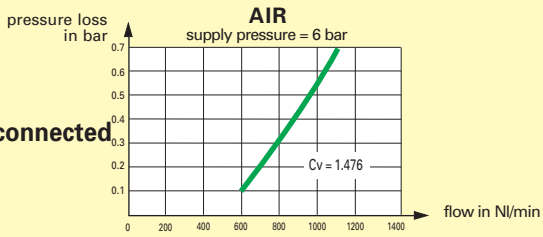
9085 probe with barbed fitting

ØD	without shut-off	kg
6	9085 25 06	0,015
9	9085 25 09	0,017
13	9085 25 13	0,022

Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability
when **connected** and **disconnected**
vacuum of 650 mm Hg
(87% of vacuum)



metal quick acting couplers
Flow : 3515 Nl/min (124 cfm)
Passage : 10 mm

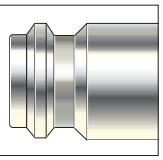
series 27
double shut off
and single shut-off

Equipped with the **«Ultra-Flo»** shut-off valve, **series 27** couplers have a very **high flow capacity** with low pressure loss. Their **robust** construction makes them perfectly suited for heavy duty application such as :

- **large pneumatic tools**
- **mains supply outlets**
- **stamping equipment**

The 'anti whip-lash' feature of one of the four available probes reinforces user safety when disconnecting.

CEJN 410
Rectus 27



9201 male body, BSP parallel

C		kg
G3/8	9201 27 17	0,137
G1/2	9201 27 21	0,141
G3/4	9201 27 27	0,180

with shut-off

9214 female body, BSP parallel

C		kg
G3/8	9214 27 17	0,151
G1/2	9214 27 21	0,147
G3/4	9214 27 27	0,200

with shut-off

9223 body with barbed fitting

ØD		kg
8	9223 27 08	0,149
10	9223 27 10	0,151
13	9223 27 13	0,153
19	9223 27 19	0,160

with shut-off

9293 female thread, «anti whip-lash» probe

C		kg
G1/2	9293 27 21	0,070

9287-9087 male thread, BSP parallel

C	with shut-off	kg
G3/8	9287 27 17	0,084
G1/2	9287 27 21	0,088
G3/4	9287 27 27	0,127

C	without shut-off	kg
G3/8	9087 27 17	0,039
G1/2	9087 27 21	0,047
G3/4	9087 27 27	0,071

9286-9086 female thread, BSP parallel

C	with shut-off	kg
G3/8	9286 27 17	0,098
G1/2	9286 27 21	0,085
G3/4	9286 27 27	0,148

C	without shut-off	kg
G3/8	9086 27 17	0,026
G1/2	9086 27 21	0,042
G3/4	9086 27 27	0,088

9285-9085 probe with barbed fitting

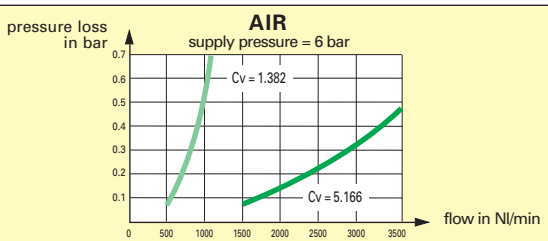
ØD	with shut-off	kg
8	9285 27 08	0,096
10	9285 27 10	0,098
13	9285 27 13	0,100
19	9285 27 19	0,107

ØD	without shut-off	kg
8	9085 27 08	0,021
10	9085 27 10	0,025
13	9085 27 13	0,028
19	9085 27 19	0,042

Flow curves – Pressure loss

Maximum working pressure: 35 bar
vacuum capability when **disconnected** vacuum of 650 mm Hg (87% of vacuum)

Double shut-off
Single shut-off



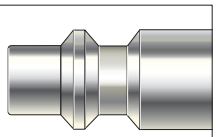
metal quick acting couplers series 30
Flow : 1400 Nl/min (49 cfm)
Passage : 8,5 mm

single shut-off

Equipped with a pointed gripping system, series 30 couplers are a very useful economical choice.

With a robust design, they are suitable for all installations and machines operating with compressed air.

ISO 6150
US.MIL.C 4109
CEJN 430
Rectus 30



9101 male body, BSP parallel

C		kg
G1/4	9101 30 13	0,095
G3/8	9101 30 17	0,097
G1/2	9101 30 21	0,110

with shut-off

9087 male thread, BSP parallel

C	without shut-off	kg
G1/4	9087 30 13	0,025
G3/8	9087 30 17	0,027
G1/2	9087 30 21	0,052

9114 female body, BSP parallel

C		kg
G1/4	9114 30 13	0,112
G3/8	9114 30 17	0,107
G1/2	9114 30 21	0,114

with shut-off

9086 female thread, BSP parallel

C	without shut-off	kg
G1/4	9086 30 13	0,028
G3/8	9086 30 17	0,028
G1/2	9086 30 21	0,041

9123 body with barbed fitting

ØD		kg
8	9123 30 08	0,095
10	9123 30 10	0,098
13	9123 30 13	0,110

with shut-off

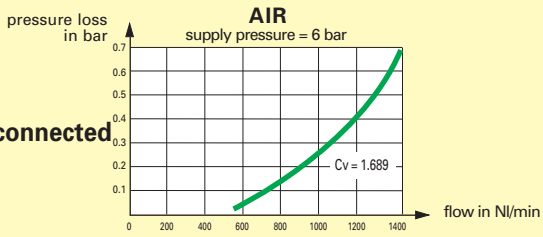
9085 probe with barbed fitting

ØD	without shut-off	kg
8	9085 30 08	0,018
10	9085 30 10	0,019
13	9085 30 13	0,022

Flow curves – Pressure loss

Maximum working pressure: 35 bar

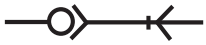
vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



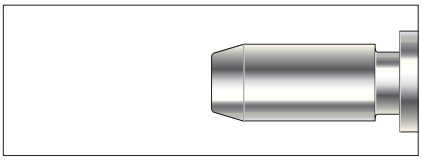
Passage : 2 mm

Passage : 3 mm

single shut-off



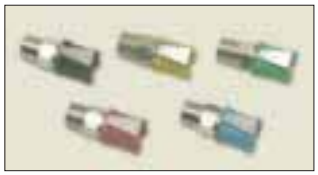
Compact and lightweight, series «mini « couplers are suitable for all compressed air installations. In order to identify the circuits, 0171 models are available in 5 colours.



Available in 5 colours : when ordering add the following suffixes
BLACK = 01 **GREEN** = 02 **RED** = 03 **BLUE** = 04 **YELLOW** = 05

passage : 2 mm

0171 male body, BSP taper or metric



C		kg
R1/8	0171 02 10	0,011
M7x1	*0171 02 55	0,008

with shut-off

*black only

0183 male thread, BSP taper

C	with shut-off	kg
R1/8	0183 02 10	0,007

0184 male thread, BSP taper

C	without shut-off	kg
R1/8	0184 02 10	0,006

0181 probe for nylon tube

ØD		kg
3	0181 03 04	0,002

passage : 3 mm

0171 male body, BSP taper

C		kg
R1/8	0171 03 10	0,020

with shut-off

0180 probe for flexible tube

ØD		kg
4	0180 04 00	0,007
5	0180 05 00	0,008

0181 probe for nylon tube

ØD		kg
4	0181 04 06	0,005

3150 probe fitted with LF 3000® coupling

ØD		kg
4	3150 00 61	0,010

maximum working pressure = 20 bar

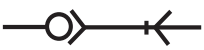
0171 couplers incorporate a shut-off valve which stops fluid flow when the probe is removed.

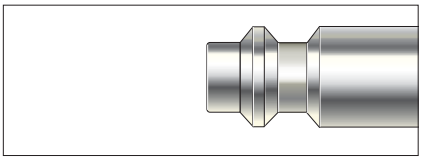
metal quick acting couplers series «standard»
Flow : 480 Nl/min (17 cfm)
Passage : 5 mm

Series «standard» couplers provide the user with a very useful solution with good performance of flow/ dimensions.

Their robustness makes them perfectly suited for numerous types of installations.

single shut-off





0172 female body, BSP parallel

C		kg
G1/4	0172 05 13	0,087

with shut-off

0187 male thread, BSP parallel

C		kg
G1/8	0187 05 10	0,018
G1/4	0187 05 13	0,026

0186 female thread, BSP parallel

C		kg
G1/4	0186 05 13	0,027

0185 probe for flexible tube

ØD		kg
4	0185 04 00	0,019
7	0185 07 00	0,017
10	0185 10 00	0,013

0189 double probe

		kg
	0189 05 00	0,025

*You will find the dimensions of **Legris** quick acting couplers at the end of this section.*

maximum working pressure = 20 bar

0172 couplers incorporate a shut-off valve which stops fluid flow when the probe is removed.

metal quick acting couplers
Flow : 2200 Nl/min (78 cfm)
Passage : 12 mm

series «midi»
single shut-off
straight through

Series «midi» couplers are adapted for all applications working with water and compressed air.

The wide variety of probes allows these couplers many options.

0172 female body, BSP parallel

C		kg
G3/8	0172 12 17	0,160
G1/2	0172 12 21	0,145

with shut-off

2272 female body, BSP parallel

C		kg
G1/2	2272 12 21	0,070
G3/4	2272 12 27	0,078
G1“	2272 12 34	0,086

straight through

2511 body with barbed fitting

ØD	DN		kg
12	9	2511 12 12	0,152
15	12	2511 12 15	0,152
19	16	2511 12 19	0,162

with shut-off

2297 body with barbed fitting

ØD	DN		kg
12	9	2297 12 12	0,077
15	12	2297 12 15	0,079
19	16	2297 12 19	0,094

straight through

2294 male thread, BSP parallel

C	DN		kg
G3/8	12	2294 12 17	0,032
G1/2	12	2294 12 21	0,044
G3/4	12	2294 12 27	0,065
G1“	12	2294 12 34	0,071

0196 female thread, BSP parallel

C		kg
G1/4	0196 12 13	0,027
G3/8	0196 12 17	0,034
G1/2	0196 12 21	0,051

2296 female thread, BSP parallel

C	DN		kg
G1/2	12	2296 12 21	0,029
G3/4	12	2296 12 27	0,060
G1“	12	2296 12 34	0,058

0195 probe for flexible tube

ØD		kg
7	0195 07 00	0,027
10	0195 10 00	0,026
13	0195 13 00	0,031
16	0195 16 00	0,048

2295 probe for flexible tube

ØD	DN		kg
12	9	2295 12 12	0,026
15	12	2295 12 15	0,032
19	12	2295 12 19	0,053

maximum working pressure = 20 bar

0172 and 2511 couplers incorporate a shut-off valve which stops fluid flow when the probe is removed.

Series «midi» couplers are complimented by a range of accessories which are particularly adapted to installations working with water.

They are suited to numerous applications such as :
- cleaning
- rinsing
- filling

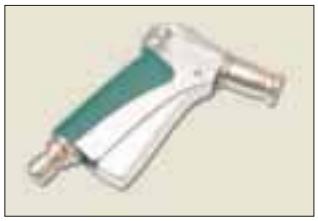
2293 Y connector

DN		kg
12	2293 12 00	0,140

2203 plug

DN		kg
12	2203 12 00	0,425

2299 water pistol



DN		kg
10	2299 12 01	0,466

This pistol allows independent control of
- the flow rate (trigger)
- type of jet (adjustable to a fine mist) by the adjustable nozzle

2299 adjustable nozzle

DN		kg
10	2299 12 20	0,154

The length indicated is with the movable part closed

2270 tap with coupler, BSP parallel thread

C		kg
G1/2	2270 21 00	0,286

2292 female adaptor

DN		kg
12	2292 12 00	0,065

This adaptor provides interchangeability with numerous components (especially watering accessories).

2398 male adaptor

DN		kg
12	2398 12 01	

This adaptor provides interchangeability with numerous components (especially watering accessories).

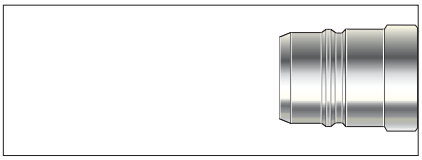
*In this catalogue, you will also find **brass accessories** compatible with **Legris** quick acting couplers. Please refer to the **Accessories and plugs section**.*

These accessories have a maximum working pressure of 20 bar.

metal quick acting couplers
Flow : 8500 Nl/min (300 cfm)
Passage : 19 mm

series «maxi»
straight through

Manufactured from robust materials, series «maxi» couplers are adapted for all applications working with water and compressed air.



2272 female body, BSP parallel

C		kg
G1“	2272 18 34	0,180

can be directly fitted to 1 inch male thread

2294 male thread, BSP parallel

C	DN		kg
G3/4	19	2294 18 27	0,070
G1“	19	2294 18 34	0,102

2297 body with barbed fitting

ØD	DN		kg
18 - 20	17,5	2297 18 20	0,164

can be directly fitted to a flexible tube, i.d. 18 mm – 20 mm

2295 probe with barbed fitting

ØD	DN		kg
18 - 20	17,5	2295 18 20	0,069

*You will find the dimensions of **Legris** quick acting couplers at the end of this section.*

These accessories have a maximum working pressure of 20 bar.

accessories for quick acting couplers

oscillating fittings and flexible fittings

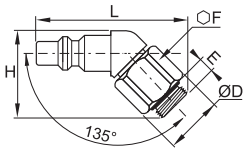
These fittings follow the operator's hand movements and prevent tubes from kinking, enabling **easier** and less restrictive **use** of pneumatic tools. Their design guarantees sealing against dust and the ingress of impurities. Thanks to their **ISO B** thread profile, they are interchangeable with **C 9000** quick acting safety couplers as well as **series 23**, **24** and **30**.

Depending on the application, Legris offers 2 types of fittings;

- **oscillating fittings**: 45° elbow
- **flexible fittings:** the ball-and-socket joint, mounted on a lubricated plastic seat, provides a 70° angle of rotation.

9071 male flexible fitting with ISO B6 probe, BSP parallel thread

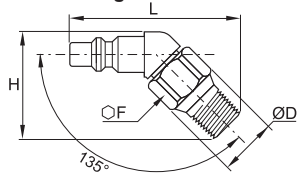
nickel-plated brass
nitrile O-ring



C	DN		ØD	E	F	H	L	kg
G1/4	6	9071U06 13	20,5	5,5	19	30	52	0,070
G1/4	8	9071U08 13	20,5	5,5	19	31	54	0,080

9070 male oscillating fitting with ISO B6 probe, BSP taper thread

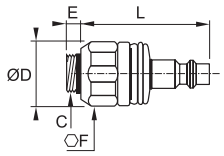
nickel-plated brass
nitrile O-ring



C	DN		ØD	F	H	L	kg
R1/4	6	9070U06 13	20,5	19	34	56	0,050
R1/4	8	9070U08 13	20,5	19	35	58	0,100

0692 male flexible fitting with ISO B6 probe, BSP parallel thread

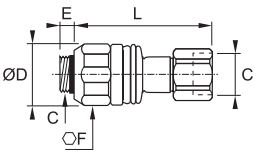
chemical nickel-plated steel
nitrile seal
nitrile sleeve



C	DN		ØD	E	F	L	kg
G1/4	5,5	0692 09 13	25,5	5,5	24	53	0,067

0691 male-female flexible fitting, BSP parallel thread

chemical nickel-plated steel
nitrile seal
nitrile sleeve



C	DN		ØD	E	F	L	kg
G1/4	5,5	0691 13 13	25,5	5,5	24	56	0,089

flexible fittings
Maximum working pressure: 10 bar
Working temperature: - 5°C to + 60°C

oscillating fittings
Maximum working pressure: 15 bar
Working temperature: - 5°C to + 60°C

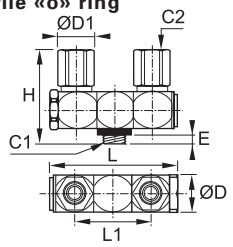
accessories for metal quick acting couplers
swivelling multiple tee fittings

For simultaneous connection of several tools from a single source of compressed air. 360° orientable outlets allow complete movement for the operator ; swivelling fitting design prevents twisting of tubes.

2 models to meet main requirements : 2 or 3 outlets ; on a work station or wall mounted ; for all types of male threaded couplers.

0680 male multiple tee with 2 female outlets, BSP parallel thread

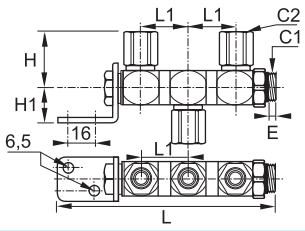
chromium-plated brass
nitrile «o» ring



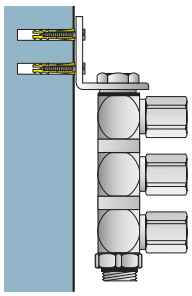
C1	C2		ØD	ØD1	E	H	L	L1	kg
G1/4	G1/4	0680 13 13	23	21	5,5	55,5	75	44	0,302

0681 male multiple tee with 3 female outlets, BSP parallel thread

chromium-plated brass
nitrile «o» ring



C1	C2		E	H	H1	L	L1	kg
G1/2	G1/4	0681 13 21	7,5	36	24	138,5	30	0,430



wall mounted model

maximum working pressure : 20 bar

working temperature : - 5° to + 60° C

special metal quick acting couplers

In order to meet the **users'** needs, **Legris** offers special products. The possibilities for series 18, 20, 21, 23, 24, 25, 27 and 30 are described on the charts below. Nevertheless if you do not find the appropriate model you need, please do not hesitate to consult us.

TYPE OF PASSAGE	BODY	PROBE
STRAIGHT THROUGH	●	●
SINGLE SHUT-OFF	●	●
DOUBLE SHUT-OFF	●	●
SAFETY	●	●
«LEAK FREE»	●	●
ANTI WHIP-LASH		●

TYPE OF SEAL ACCORDING TO THE FLUID
NBR
FFKM
ETHYLENE – PROPYLENE
FKM

CONSTITUENT MATERIALS - INTERNAL COMPONENTS
BRASS
STEEL
STAINLESS STEEL 303 AND 316 L

SURFACE TREATMENT - BODY AND PROBE
NICKEL PLATING
CHEMICAL NICKEL PLATING
CHROMIUM PLATING

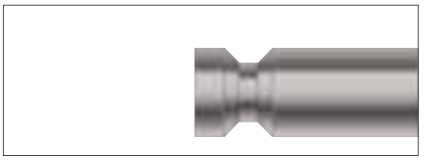
Quick acting couplers in stainless steel AISI 316L

series X20

passage: 2,7 mm

Single shut-off flow: 165 Nl/min

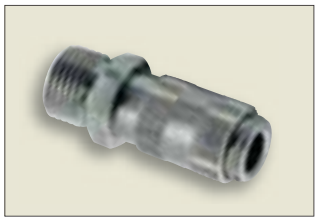
Double shut-off flow: 130 Nl/min



Specifications
- bodies and probes: stainless steel AISI 316L
- FKM seals
- working pressure : 35 bar
- working temperature : -15°C to +200°C
- vacuum capability: 86 % vacuum

Advantages
- compact
- robust
- low pressure loss

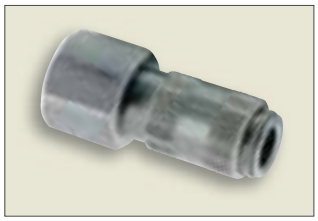
9201 Male body, BSP parallel



C	
M5	9201X20 19
G1/8	9201X20 10

with shut-off

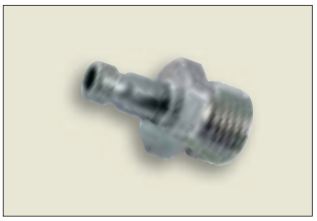
9214 Female body, BSP parallel



C	
M5	9214X20 19
G1/8	9214X20 10

with shut-off

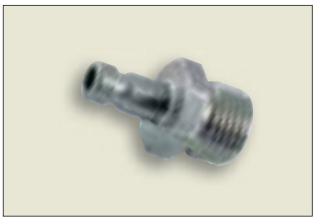
9287 Male thread, BSP parallel



C	
M5	9287X20 19
G1/8	9287X20 10

with shut-off

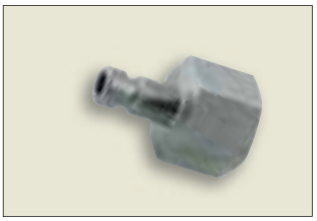
9087 Male thread, BSP parallel



C	
M5	9087X20 19
G1/8	9087X20 10

without shut-off

9286 Female thread, BSP parallel



C	
M5	9286X20 19
G1/8	9286X20 10

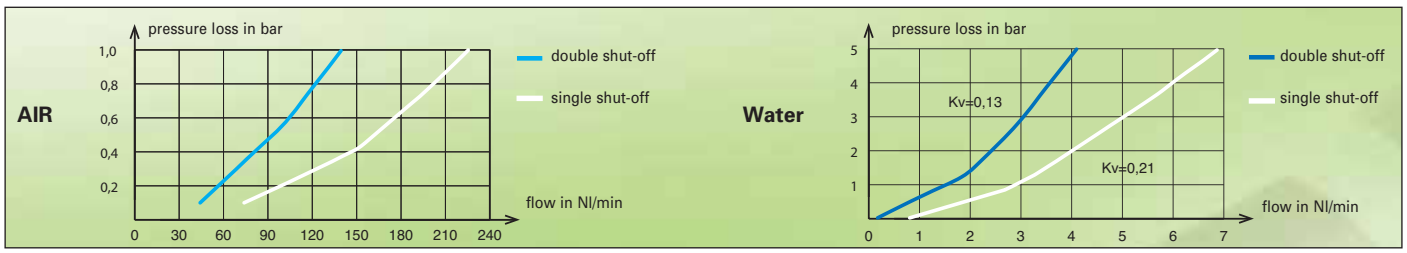
with shut-off

9086 Female thread, BSP parallel

C	
M5	9086X20 19
G1/8	9086X20 10

without shut-off

Flow curves – Pressure loss



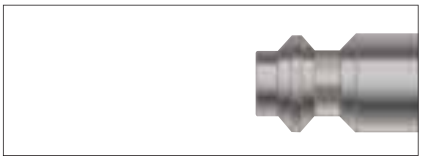
Quick acting couplers in stainless steel AISI 316L

series X21

passage: 5 mm

Single shut-off flow: 560 Nl/min

Double shut-off flow: 310 Nl/min



Specifications
- bodies and probes: stainless steel AISI 316L
- FKM seals
- working pressure : 35 bar
- working temperature : -15°C to +200°C
- vacuum capability: 86 % vacuum

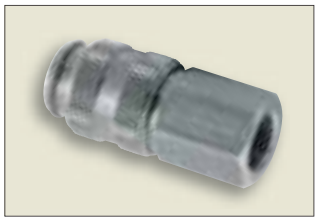
Advantages
- light weight
- robust
- compact

9201 Male body, BSP parallel

C	
G1/8	9201X21 10
G1/4	9201X21 13

with shut-off

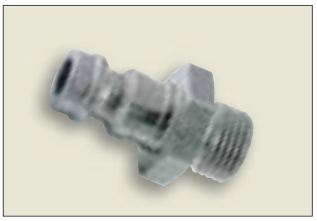
9214 Female body, BSP parallel



C	
G1/8	9214X21 10
G1/4	9214X21 13

with shut-off

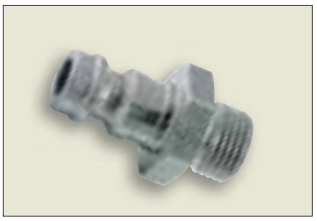
9287 Male thread, BSP parallel



C	
G1/8	9287X21 10
G1/4	9287X21 13

with shut-off

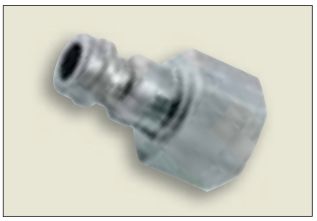
9087 Male thread, BSP parallel



C	
G1/8	9087X21 10
G1/4	9087X21 13

without shut-off

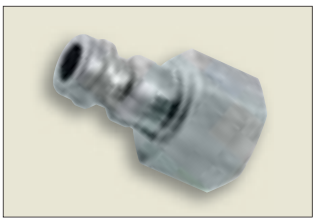
9286 Female thread, BSP parallel



C	
G1/8	9286X21 10
G1/4	9286X21 13

with shut-off

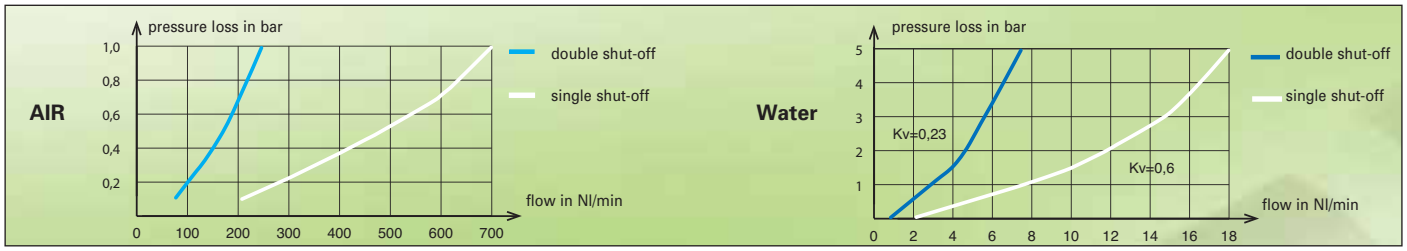
9086 Female thread, BSP parallel



C	
G1/8	9086X21 10
G1/4	9086X21 13

without shut-off

Flow curves – Pressure loss



Quick acting couplers in stainless steel AISI 316L

series X25

passage: 7,4 mm

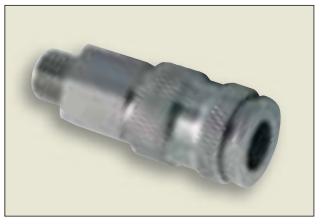
Single shut-off flow: 1800 Nl/min

Double shut-off flow: 710 Nl/min

Specifications
- bodies and probes: stainless steel AISI 316L
- FKM seals
- working pressure : 35 bar
- working temperature : -15°C to +200°C

Advantages
- high flow
- robust

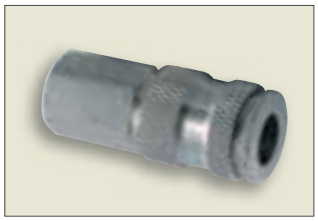
9201 Male body, BSP parallel



C	
G1/4	9201X25 13
G3/8	9201X25 17
G1/2	9201X25 21

with shut-off

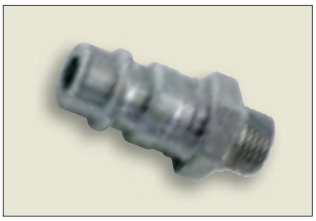
9214 Female body, BSP parallel



C	
G1/4	9214X25 13
G3/8	9214X25 17
G1/2	9214X25 21

with shut-off

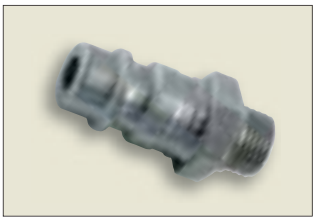
9287 Male thread, BSP parallel



C	
G1/8	9287X25 10
G1/4	9287X25 13
G3/8	9287X25 17
G1/2	9287X25 21

with shut-off

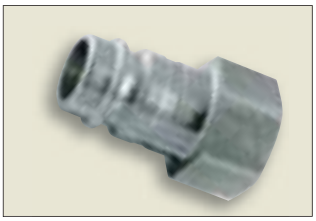
9087 Male thread, BSP parallel



C	
G1/8	9087X25 10
G1/4	9087X25 13
G3/8	9087X25 17
G1/2	9087X25 21

without shut-off

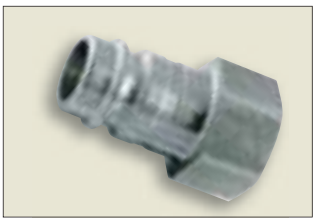
9286 Female thread, BSP parallel



C	
G1/8	9286X25 10
G1/4	9286X25 13
G3/8	9286X25 17
G1/2	9286X25 21

with shut-off

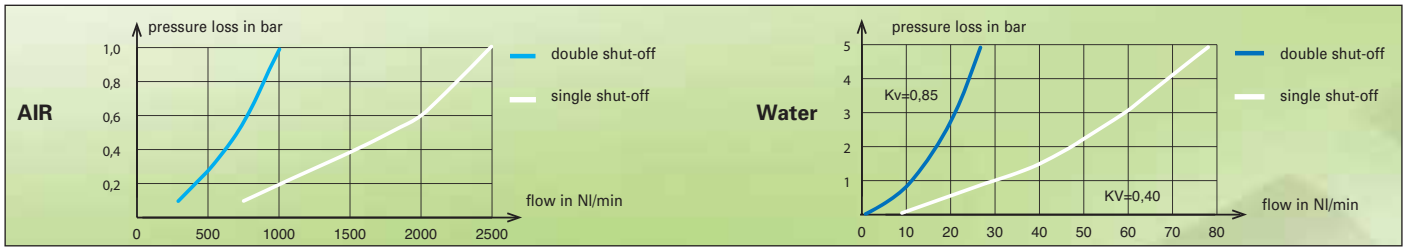
9086 Female thread, BSP parallel



C	
G1/8	9086X25 10
G1/4	9086X25 13
G3/8	9086X25 17
G1/2	9086X25 21

without shut-off

Flow curves – Pressure loss

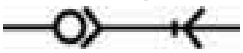


Quick acting couplers in stainless steel AISI 316L

series X27

passage: 10 mm

Single shut-off flow: 3500 Nl/min

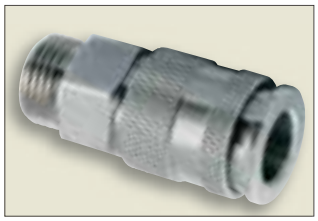


Double shut-off flow: 900 Nl/min

Specifications
- bodies and probes: stainless steel AISI 316L
- FKM seals
- working pressure : 35 bar
- working temperatures : -15°C to +200°C

Advantages
- very high flow
- low pressure loss
- robust

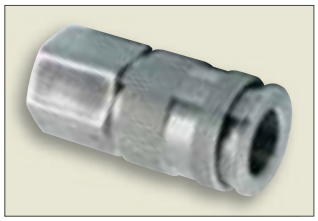
9201 Male body, BSP parallel



C	
G3/8	9201X27 17
G1/2	9201X27 21
G3/4	9201X27 27

with shut-off

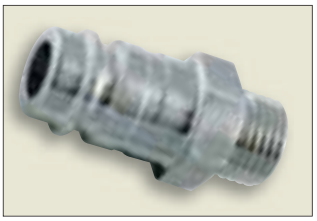
9214 Female body, BSP parallel



C	
G3/8	9214X27 17
G1/2	9214X27 21
G3/4	9214X27 27

with shut-off

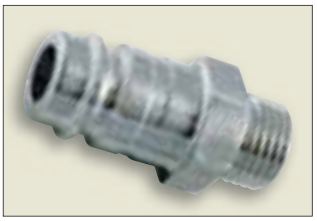
9287 Male thread, BSP parallel



C	
G3/8	9287X27 17
G1/2	9287X27 21
G3/4	9287X27 27

with shut-off

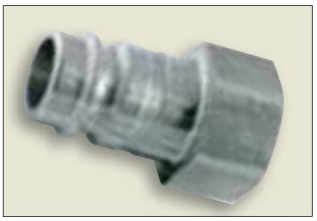
9087 Male thread, BSP parallel



C	
G3/8	9087X27 17
G1/2	9087X27 21
G3/4	9087X27 27

without shut-off

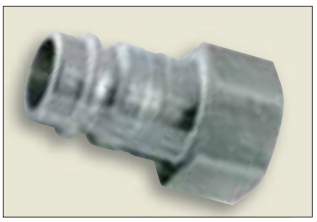
9286 Female thread, BSP parallel



C	
G3/8	9286X27 17
G1/2	9286X27 21
G3/4	9287X27 27

with shut-off

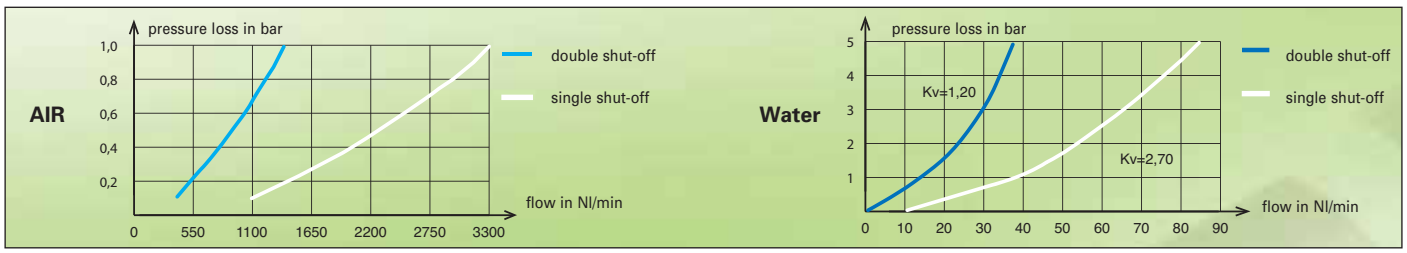
9086 Female thread, BSP parallel



C	
G3/8	9086X27 17
G1/2	9086X27 21
G3/4	9086X27 27

without shut-off

Flow curves – Pressure loss



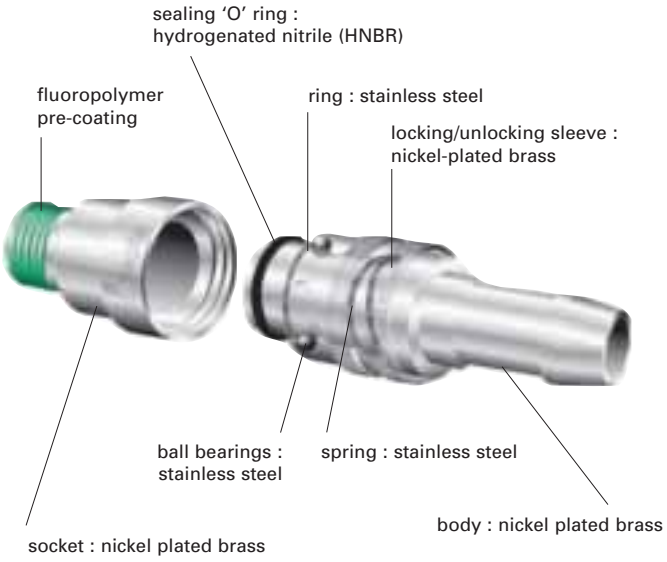
surface treatment - moud couplings

principle of quick release mould couplers series 75

Series 75 Legris couplers are designed for the connection and disconnection of temperature regulation circuits for both plastic injection and die casting moulds.

- **automatic connection/instant disconnection by hand**
- easily fitted with **one hand** by simply inserting the body into the socket.
- **ergonomic** design of the locking / unlocking sleeve : two knurled rings offer a **better grip**, enabling smooth disconnection by simply pulling back the sleeve.
- **performance to match users' needs**
- **immediate seal** for the body due to the «O- ring» and the socket due to fluoropolymer pre-coated threads.
- **compactness** with **optimisation of flow,** preventing build up of deposits
- reliability of connection = **safety** assurance
- **a range designed to cover all essential requirements**
- bodies, straight or elbow, are available in DN 8 mm and DN12 mm
- sockets with 2 types of mounting : flush or standard mounting, with 4 thread sizes
- for hose I.D. 8, 10, 12 and 13 mm

technical specification



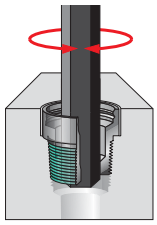
suitable fluids	cold water, refrigerated water, hot water, oil (according to working temperature)
working pressure	10 bar
working temperature	-15° to +90°C (water applications) for temperatures above 90°C, please consult us
constituent materials	body and socket : nickel-plated brass «O» rings : hydrogenated nitrile (HNBR)
application fields	die casting moulds for zamac, aluminium and brass alloys thermoplastic moulds for plastic injection

*You will find the dimensions of **Legris** quick acting couplers at the end of this section.*

straight through

mounting of the socket

Two methods for mounting are possible to equip moulds. Female sockets are connected into the mould by use of an Allen key.



flush-mounting
This mounting configuration is recommended for new moulds.

standard mounting
This type of mounting is suited for existing moulds, without any adaptation of the mounting cavities.

9020T body with hosetail

ØD	DN		kg
8	8	9020T08 08	0,051
10	8	9020T08 10	0,054
12	8	9020T08 12	0,063
13	12	9020T12 13	0,164
16	12	9020T12 16	0,172

9040T body, BSP parallel thread

C	DN		kg
G1/4	8	9040T08 13	0,061
G1/2	12	9040T12 21	0,208

9021T 90° elbow with hosetail

ØD	DN		kg
10	8	9021T08 10	0,095
12	8	9021T08 12	0,109

9041T 90° elbow, BSP parallel thread

C	DN		kg
G1/4	8	9041T08 13	0,082
G3/8	12	9041T12 17	0,280

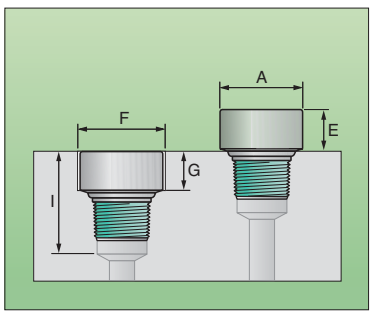
9042T 45° elbow, BSP parallel thread

C	DN		kg
G1/4	8	9042T08 13	0,073
G3/8	12	9042T12 17	0,254

9075T female socket, BSP taper

C	DN		kg
R1/8	8	9075T08 10	0,029
R1/4	8	9075T08 13	0,035
R3/8	8	9075T08 17	0,044
R3/8	12	9075T12 17	0,073
R1/2	12	9075T12 21	0,075

dimension of cavities, according to the method of mounting



	A	E	F	G	I
9075T08 10	21	22	22	24	33
9075T08 13	21	22	22	24	34
9075T08 17	21	11	22	13	25
9075T12 17	32	28	33	30	42
9075T12 21	32	28	33	30	45

universal blowguns

legris connectic

principle of universal blowguns

The state of the art range of **Legris** blowguns fulfils the demanding requirements of industrial users.
Designs incorporate a balance of technical performance, ergonomic features and aesthetic appearance.
Legris blowguns combine a progressive trigger action with a powerful and quiet air jet, thus enhancing personal safety and meeting safety at work regulations
Particular attention has been paid to the «feel», performance and appearance of each gun ; they are light, yet robust.

The range of interchangeable nozzles allows the Legris blowgun to be used in many ways :

- **blowing air :** to cool machines, dry components, ventilate, dust benches etc.
- **ejection :** of steam, fumes, particles, swarf etc...
- **moving :** small components, granules, swarf, etc...
- **mixing :** of air and other gases
- **cooling :** stamped parts when ejected from a press

Standards and regulations

- **OSHA 1910.242 (b)**
  According to this standard, the dynamic pressure must be less than 30 psi should the nozzle become blocked
- **OSHA 1910.95 (b)**
  This standard specifies that the noise level should be less than 90dB throughout an 8 hour period of use.
- **European Noise Directive 2003/10/CE**
  European directive n° 2003/10/CE, dated 6 February 2003, sets the maximum recommended noise level exposure limits for operator use in order to protect against risks to health and safety. The directive sets a maximum noise level exposure limit of 87 dBA.

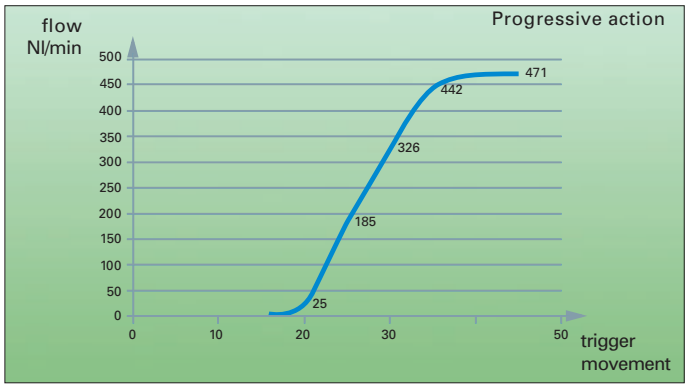
Registered Design protection

All Legris blowguns have been submitted to the registrated design protection organization for the drawings and models with the following numbers: 13224 - 13225 - 13226

technical specification

Fluid	compressed air *please consult us for other fluids*
Maximum working Pressure	up to 10 bar
Temperatures	dry air : - 20° to + 80°C ambient : - 15° to + 50°C
Material	Body : nylon 6.6 30% glass fibre Trigger : nylon 6.6 30% glass fibre Seal nitrile Nozzle : - nickel-plated brass (progressive control and safety versions) - aluminium (standard version) Pin : nickel-plated brass

advantages



progressive action

The trigger is very sensitive and has a long, easily adjusted movement, which allows the user to control the flow accurately. This responsive and gradual action gives greater sensitivity when using the blowgun in the work-place (for example with small parts).

quality & performance

- Gradual and accurate control
- Progressive and directional air jet up to 6 bar
- Durable: impact resistant materials, high quality structure and finish
- Rigorously tested and approved: seals and flow levels for all Legris blowguns are 100% tested

safety features

Technology is built in to ensure adherence to international health and safety at work requirements, eg.

- pressure is reduced on certain models
- safety nozzles
- low noise levels.

ergonomic design

- Special attention has been paid to the shape, size and design to enhance comfort and safety :
  - the blowgun is easy to grip
  - it has the right «feel»

Its light weight and ease of use make it especially suited to production environments and for both male and female operators.

- Lower or upper connection points for secure gripping and distortion-free handling
- Numerous hanging points, for easy and quick removal

wide range of nozzles

Four blowguns and a wide range of interchangeable nozzles to meet many specific requirements, whether it be difficult access, safety, economy, power, etc...

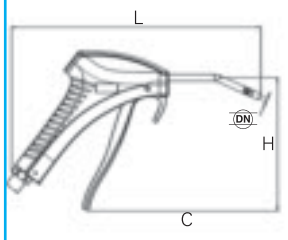
- Standard jet
- Safety version
- Straight tube (long or short)
- Angled tube (long or short)
- Coanda nozzle
- Booster nozzle
- Air screen nozzle
- Booster nozzle with airscreen

The Legris range of blowguns and nozzles provide the right equipment for the job in hand.

universal blowguns

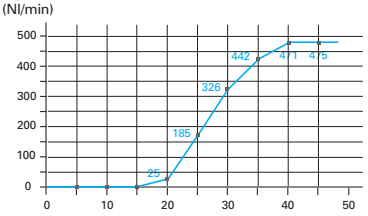
0659 standard blowgun with angled nozzle

body : polymer
nozzle : aluminium



C	DN		H	L	kg
G1/4	3,5	0659 00 13	125,5	223	0,075

Progressive flow curve



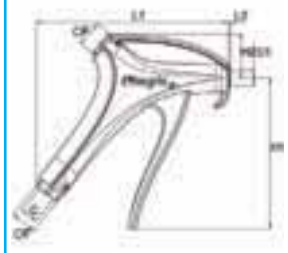
475 Nl/min

82 dBA

OSHA 1910.242 (b)
OSHA 1910.95 (b)
Directive 2003/10/CE
Hearing protectors should always be worn when exposure to noise is over 8 hours duration.
Recommendation INRS ED 755

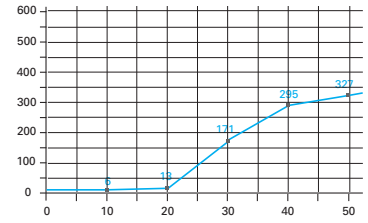
0651-0658 progressive control blowgun lower/upper connection with standard nozzle

body : polymer
nozzle : nickel-plated brass



C	DN		F	H1	H2	L1	L2	kg
G1/4		0651 00 13	20	117	34	147	10	0,173
G1/4		0658 66 13	20	117	37	145	10	0,195

Progressive flow curve



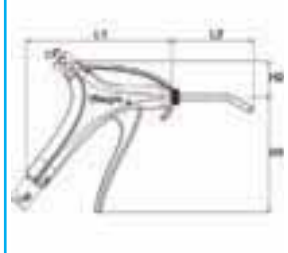
350 Nl/min

86 dBA

OSHA 1910.95 (b)
Directive 2003/10/CE :
Hearing protectors should always be worn.
Recommendation INRS ED 755

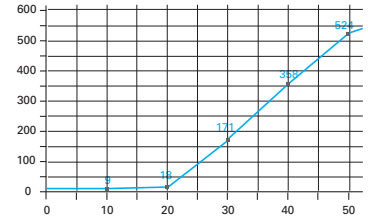
0656/0657 progressive control blowgun lower/upper connection with short angled nozzle

body : polymer
nozzle : nickel-plated brass



C	DN		F	H1	H2	L1	L2	kg
G1/4		0656 66 13	20	117	34	147	81	0,173
G1/4		0657 66 13	20	117	37	145	82	0,195

Progressive flow curve



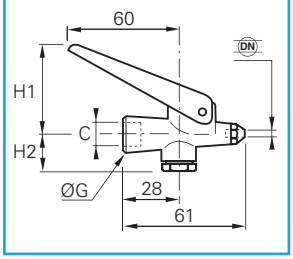
565 Nl/min

86 dBA

OSHA 1910.242 (b)
OSHA 1910.95 (b)
Directive 2003/10/CE
Hearing protectors should always be worn
Recommendation INRS ED 755

0623 lever operated nickel plated brass air gun with removable nozzle

nickel plated brass



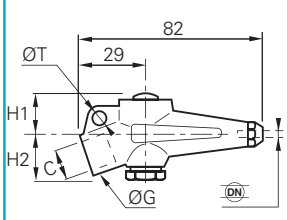
C	DN		G	H1* mini	H1* maxi	H2	kg
G1/4	2	0623 10 35	18	37	19	21	0,124

*tolerance = ± 2 mm

This blowgun has a nickel plated brass body with hardened steel nozzle.

0622 button operated blowgun

nickel plated brass



C	DN		G	H1	H2	T	kg
G1/4	2	0622 26 73	18	17,5	20,5	7	0,194

This blowgun has a nickel plated brass body with hardened steel nozzle.

universal blowguns
dynamic safety blowgun

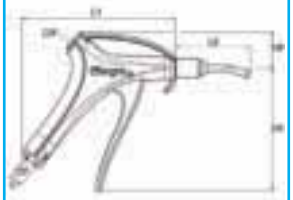
Thanks to its innovative design, the Legris universal safety blowgun ensures the safety of the operator and machinery at all times. An integrated pressure regulator gives active safety to the user.
The principle is simple :
- when in close proximity to any obstacle, the pressure falls rapidly,restricting pressure to 0,5 bar (at inlet pressure of 8 bar) once directly in contact with the object.
- conversely, as soon as the nozzle is removed from the obstacle, the pressure rises automatically.

technical specifications

fluid carried : compressed air
maximum flow pressure : 10 bar
safety pressure at 8 bar : 0,5 bar
output at 6 bar : 255 Nl/min
force of air jet at 6 bar : 0,145 daN
noise level (norm ISO 15744) : 80 dbA

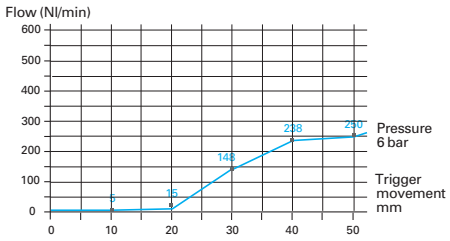
0654 type dynamic safety blowgun

polymer body - nickel plated brass nozzle



C		F	H1	H2	L1	L2	kg
G1/4	0654 00 13	17	128	14	120	1,5	0,213

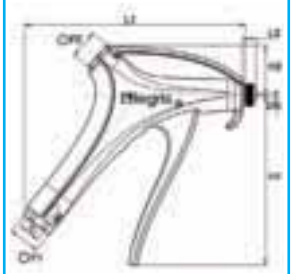
Progressive flow curve



250 Nl/min
80 dBA
OSHA 1910.242 (b)
OSHA 1910.95 (b)
Directive 2003/10/CE
Recommendation INRS ED 755

0652-0655 progressive control blowgun lower/ upper connection threaded version G1/4

body : polymer



C	C1		F	H1	H2	L1	L2	kg
G1/4	M12x1,25	0652 66 13	20	117	34	117	1,5	0,161
G1/4	M12x1,25	0655 66 13		117	34	149	1,2	0,169

	OSHA 1910.242b	OSHA 1910.95(b)	INRS ED 755	Directive 2003/10/CE
0690 01 00		■		■
0690 02 00		■		■
0690 03 00		■		■
0690 04 00	■	■	■	■
0690 05 00		■		■
0690 06 00	■	■	■	■
0690 07 00		■		■
0690 08 00		■		No hearing protectors should be worn
0690 09 00		■		■
0690 10 00				■
0690 11 00		■		■

■ Complies with standards
■ Complies with standards but on certain conditions

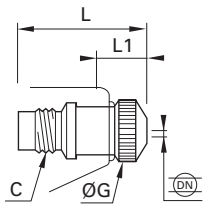
Hearing protectors should always be worn when exposure to noise is over 8 hours duration.
Hearing protectors should always be worn

maximum flow (tolerance +/-10%)
noise level ISO 15744
spread of air cone
complies with norms

interchangeable nozzles for universal blowgun

0690 01 standard nozzle

nickel-plated brass



C	DN		G	L	L1	kg
M12x1,25	2,5	0690 01 00	15	31,2	8,9	0,025

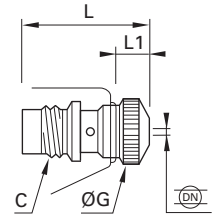
- Multi-purpose
- Powerful and responsive air jet

OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

350 Nl/min
86 dBA
23°

0690 02 safety nozzle

nickel-plated brass



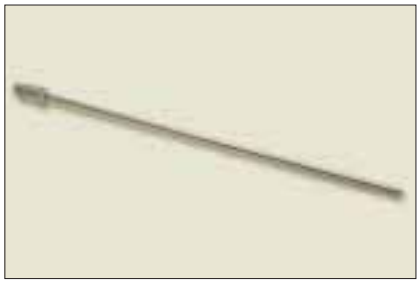
C	DN		G	L	L1	kg
M12x1,25	3	0690 02 00	15	31,2	9,2	0,025

- Should the nozzle become obstructed, air escapes through holes in the side of the nozzle
- Powerful and responsive air jet

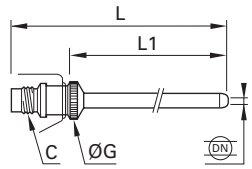
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

315 Nl/min
83 dBA
26°

0690 03 straight tube nozzle (long)



nickel-plated brass



C	DN		G	L	L1	kg
M12x1,25	2,5	0690 03 00	15	332	307	0,065

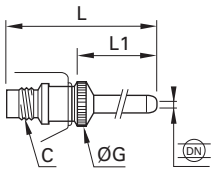
- Powerful and responsive air jet
- Useful where access is restricted

OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

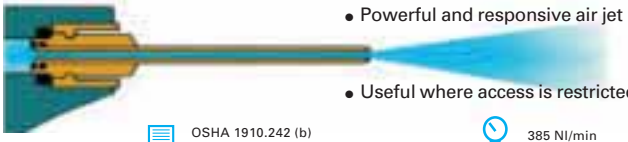
365 Nl/min
82 dBA
21°

0690 04 straight tube nozzle (short)

nickel-plated brass



C	DN		G	L	L1	kg
M12x1,25	2,5	0690 04 00	15	102	77	0,035

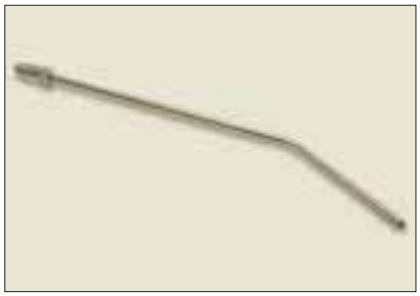


- Powerful and responsive air jet
- Useful where access is restricted

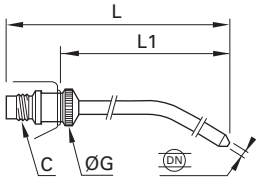
OSHA 1910.242 (b)
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

385 Nl/min
82 dBA
21°

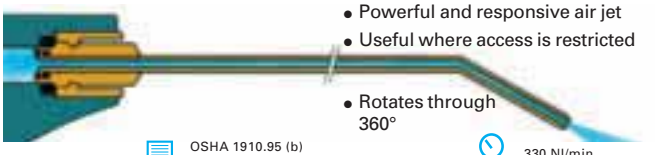
0690 05 angled tube nozzle (long)



nickel-plated brass



C	DN		G	L	L1	kg
M12x1,25	2,5	0690 05 00	15	316	292	0,065



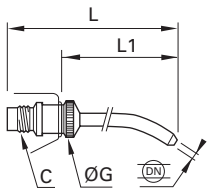
- Powerful and responsive air jet
- Useful where access is restricted
- Rotates through 360°

OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

330 Nl/min
82 dBA
21°

0690 06 angled tube nozzle (short)

nickel-plated brass



C	DN		G	L	L1	kg
M12x1,25	2,5	0690 06 00	15	94	70	0,035

- Powerful and responsive air jet
- Useful where access is restricted
- Rotates through 360°

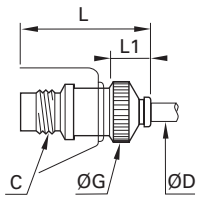
OSHA 1910.242 (b)
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

565 Nl/min
86 dBA
21°

interchangeable nozzles for universal blowgun

0690 07 safety nozzle

nickel-plated brass



ØD	C		G	L	L1	kg
4	M12x1,25	0690 07 00	15	35	12,7	0,025

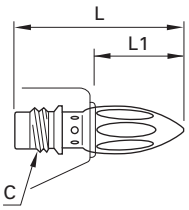
- Fluidised powders
- Choose either nylon or polyurethane tube for use where access is restricted

OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

330 Nl/min (without tube)
266 Nl/min (with tube 2,5x4)
158 Nl/min (with tube 2x4)
81 dBA
22°

0690 08 coanda effect nozzle

nickel-plated brass



C		L	L1	kg
M12x1,25	0690 08 00	47,5	26	0,033

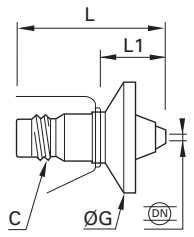
- Precise air jet
- Very quiet
- Energy saving
- Safe, because its shape makes it difficult to obstruct the opening of the nozzle

OSHA 1910.95 (b)
Directive 2003/10/CE

240 Nl/min
73 dBA
20°

0690 09 air screen nozzle

nickel-plated brass



C	DN		G	L	L1	kg
M12x1,25	2	0690 09 00	30	40,5	18,5	0,021

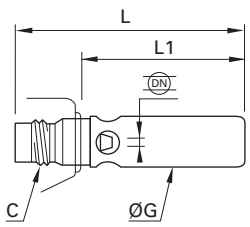
- An air screen and an air deflector prevent dust and swarf being blown back at the operator
- No risk of overpressure when nozzle is blocked

OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

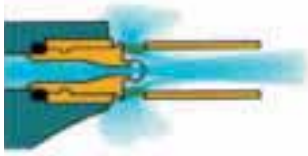
650 Nl/min
86 dBA
jet 24°
screen 140°

0690 10 booster nozzle

nickel-plated brass



C	DN		G	L	L1	kg
M12x1,25	2,5	0690 10 00	15	64	42	0,038



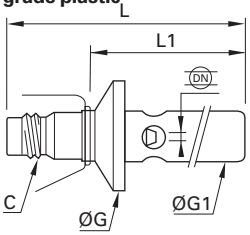
- Improved air flow, especially suited for use with large areas
- Saves energy by venturi method of increasing air flow
- Lower speed air flow

OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

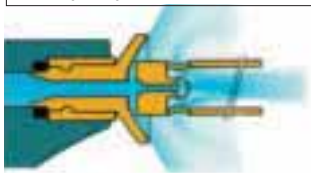
335 Nl/min
99 dBA
28°

0690 11 booster nozzle with air screen

nickel-plated brass
deflector – engineering grade plastic



C	DN		G	G1	L	L1	kg
M12x1,25	2,5	0690 11 00	30	15	76	54	0,046

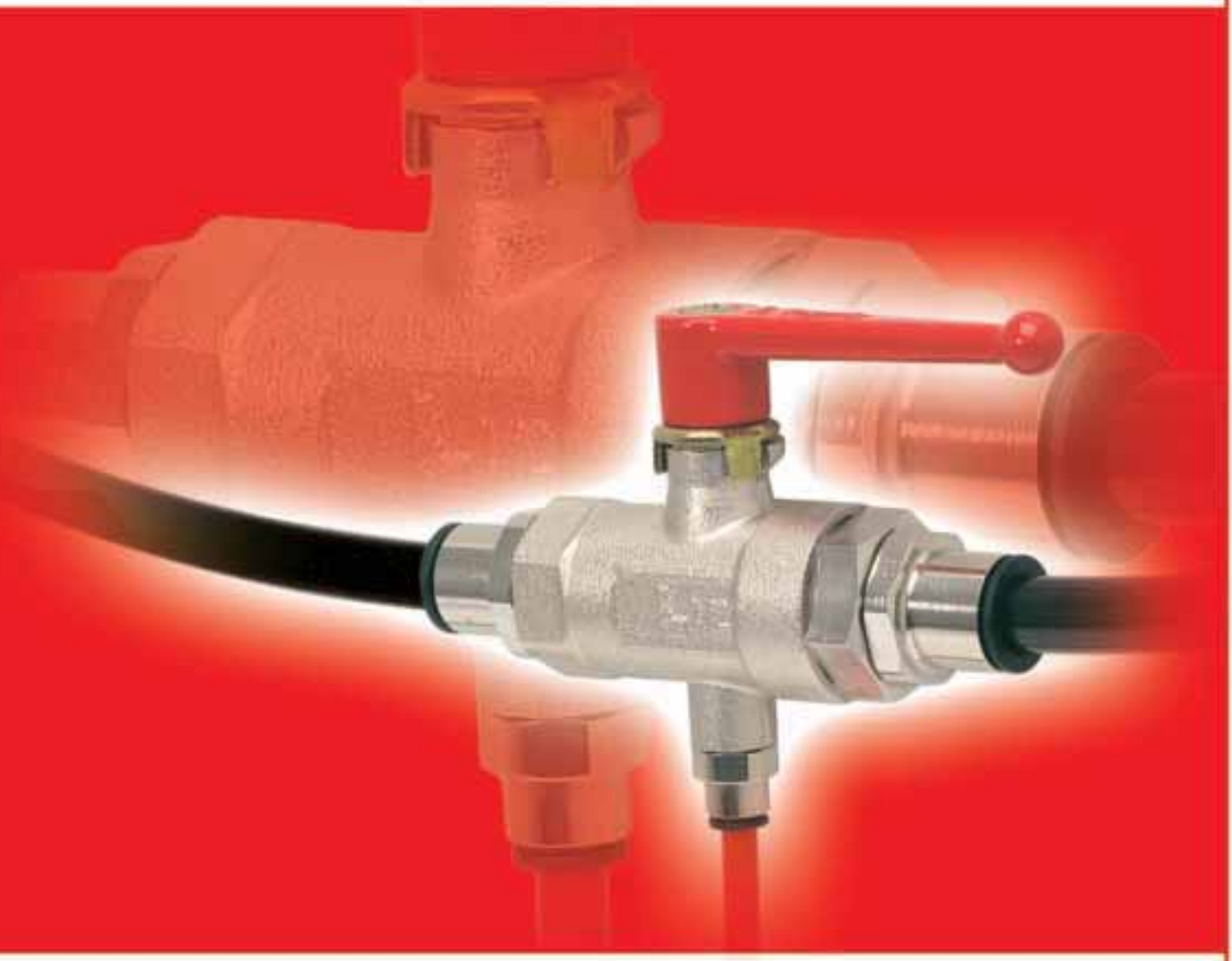


- Has the same venturi features as the booster nozzle
- No risk of overpressure when nozzle is blocked
- An air screen and an air deflector prevent dust and swarf being blown back at the operator

OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

625 Nl/min
86 dBA
jet 26°
screen 140°

Industrial ball valves



legris connectic

Industrial ball valves

Legris provides a wide range of ball valves, adapted to many applications, and suited to a variety of customer requirements in terms of performance.

Ball valves Industrial series

- suitable for pressures up to **300 bar**
- excellent sealing at low and high pressure
- secure non removable inlet and outlet ports
- handle replaceable by a wheel

Ball valves Semi-standard series

- to satisfy specific customer requirements
- 6 versions cover virtually all requirements for different types of fluids and applications

Needle valves

- compact and designed for use where a combination of fluid control and **perfect sealing** is required
- various configurations, connection types and dimensions

Needle valves : accessories

- needle drain valves
- venting pressure gauge valves
- pressure relief valve

Axial valves

- overcome the limitations of traditional actuators
- **excellent** performance
- compatible with numerous industrial fluids
- straightforward reliable installation

On pages R24 to R27, an application table enables correct choice of valve depending on the fluid used.

Industrial ball valves

The variety of this range provides an answer to many specific requirements. Select the model required for your application.

Ball valves
Standard range, 2 and 3 way

- for all industrial applications
- long life
- in-line, with right angled flow and screw fixing versions

Ball valves
Standard range, lockable

- for **safety** of personnel and equipment
- valves are lockable:
  - in both open and closed position
  - only in the closed position

Ball valves
Standard range, vented

- with threaded exhaust, to allow discharge of downstream media
- with pin-hole vent, for applications with no special discharge requirement
- fluid flow direction

Ball valves
Light series

- allow the passage of many fluids
- suited to medium pressures and temperatures
- models with standard handle and with a square stem

Ball valves
Stainless steel series

- designed for use with **corrosive** fluids
- resistance to **aggressive** environments
- with ball, one piece, ''3-piece'' and needle types

Mini-ball valves

- pneumatic applications
- industrial connection
- full flow

the complete range of ball valves

in-line ball valves

0402 Page R7

0401 Page R7

0400 Page R7

0411 Page R7

0414 Page R7

in-line with fixing holes and panel mounting

0446 Page R8

6402 Page R8

6401 Page R8

right-angled ball valves

0472 Page R9

0471 Page R9

in-line ball valves – 3 way

0482 Page R10

0483 Page R10

0448 Page R10

0452 Page R10

light series

0492 Page R11

0491 Page R11

0490 Page R11

0494 Page R11

mini ball valves

7913 3/2, with vent page R13

7914 3/2, with vent page R13

7910 2/2 page R13

7911 2/2 page R13

7000 page R13

lenticular valves

4602 Page R14

light series with square stem

0497 Page R14

0496 Page R14

in-line fluoropolymer series

4902 Page R15

lockable ball valves

0432 Page R16

0438 Page R16

0437 Page R17

0439 Page R17

venting ball valves

0489 Page R18

0449 Page R18

0469 Page R18

standard vented, with right angled flow

0462 Page R19

0461 Page R19

high pressure ball valves

4402 Page R20

the complete range of ball valves

stainless steel ball valves

4832
Page R21

4812
Page R21

4810
Page R21

stainless steel ball valves

0465
Page R22

needle valves

0502
Page R28

0501
Page R28

0510
Page R28

0532
Page R29

0531
Page R29

accessories

0562
Page R29

0563
Page R29

0627
Page R29

0630
Page R29

axial valves

4202
Page R32

4212
Page R32

4222
Page R32

accessories

4298
Page R33

4298
Page R33

4299
Page R33

Identification

Part numbers have been chosen by a method of mnemonics.
Each valve is identified by :

- its series
- the diameter of passage through the valve
- the thread code

Example

4902 20 27

- 4902 : type of ball valve
- 20 : diameter of passage
- 27 : thread code

principle of ball valves

Standard range

The standard **Legris ball valve** provides a reliable means of opening and closing fluid systems. It requires a simple quarter turn of the handle to operate the two-way version, or a 180° turn for the three way version.

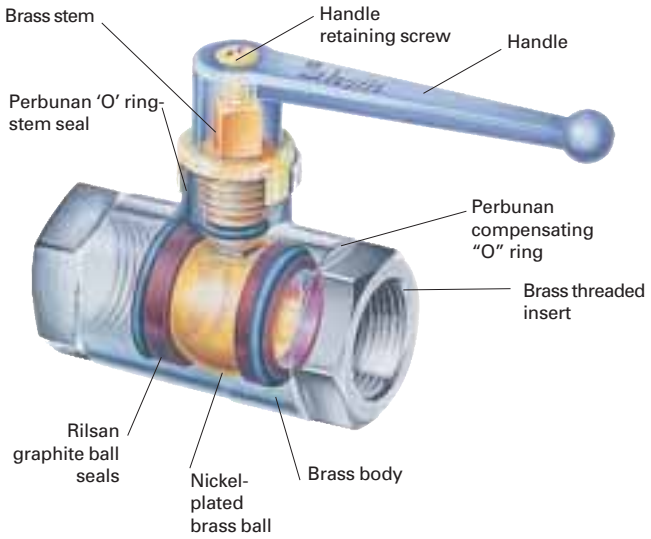
Principal advantages:

- optimum sealing due to compensating "O" rings
- smooth operation due to low friction coefficient of chemically nickel-plated brass
- excellent resistance to scaling due to ball seal configuration
- **Legris ball valves** provide many thousands of trouble free operations due to the "O" rings compensating for seal wear
- excellent resistance to pressure and temperature constraints

Reliability :

- the **ball** is sealed on both sides by graphite impregnated rilsan seals which are supported by perbunan compensating "O" rings. This ensures that the seal remains in contact with the ball at all times thus extending the life of the ball valve by preventing leakage should seal wear occur.
- the stem is firmly secured within a square insert on the ball and is sealed by an "O" ring.

technical specifications

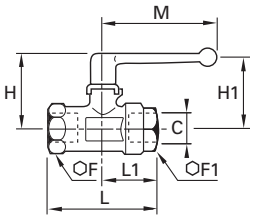


working fluids	see application table on pages R24 to R27					
working pressure	20 to 40 bar depending on the model					
working temperature	- 20° to + 80°C					
constituent materials	body : sand blasted nickel-plated brass ball : polished brass stem : brass retaining nut : brass ball seal : graphite impregnated rilsan stem seal : nitrile compensating "O" rings : nitrile					
maximum tightening torques of ball valves, standard range	thread	G1/8	G1/4	G3/8	G1/2	G3/4
	m.daN	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
	thread	G1"	G1"1/4	G1"1/2	G2"	
	m.daN	0,50 to 0,70	0,40 to 0,60	0,80 to 1,20	0,80 to 1,20	

0402 double female

2/2

sand blasted nickel-plated brass body



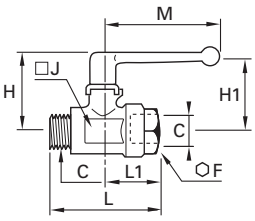
C	DN		F	F1	H	H1	L	L1	M	kg
G1/8	4	0402 04 10	-	14	35	29	44	25	48	0,091
G1/8	7	0402 07 10	19	19	38	31	51	27	48	0,167
G1/4	7	0402 07 13	19	19	38	31	53	28	48	0,157
G3/8	10	0402 10 17	24	24	45	43	59	31	69	0,230
G1/2	13	0402 13 21	27	27	47	44	67	34	69	0,291
G3/4	20	0402 20 27	32	38	63	54	80	39	108	0,690
G1"	23	0402 23 34	41	46	67	57	94	47	108	1,030
G1"1/4	32	0402 32 42*	55	60	97	105	112	59	180	2,433
G1"1/2	32	0402 32 49*	55	60	97	105	120	62	180	2,278
G1"1/2	40	0402 40 49*	55	55	104	105	111	55	190	2,558
G2"	40	0402 40 48*	70	70	104	105	122	61	190	2,754

*models with CE marking CE
maximum working pressure : 40 bar

0401 male female

2/2

sand blasted nickel-plated brass body



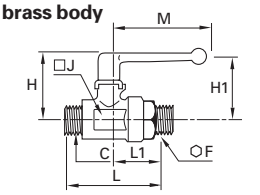
C	DN		F	H	H1	J	L	L1	M	kg
G1/8	4	0401 04 10	14	35	29	14	45	25	48	0,091
G1/8	5	0401 05 10	19	38	31	19	51	27	48	0,158
G1/4	7	0401 07 13	19	38	31	19	52	28	48	0,151
G3/8	10	0401 10 17	24	45	43	24	58	31	69	0,227
G1/2	13	0401 13 21	27	47	44	27	66	34	69	0,290
G3/4	18	0401 18 27	38	63	54	39	79	39	108	0,714
G1"	23	0401 23 34	46	67	57	48	91	47	108	1,028
G1"1/4	32	0401 32 42*	60	97	115	55	113	59	180	2,374

*models with CE marking CE
maximum working pressure : 40 bar

0400 double male

2/2

sand blasted nickel-plated brass body



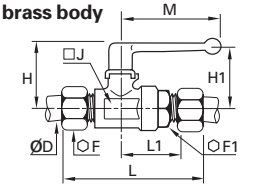
C	DN		F	H	H1	J	L	L1	M	kg
G1/8	4	0400 04 10	14	35	29	14	45	25	48	0,091
G1/4	7	0400 07 13	19	38	31	19	60	36	48	0,163
G3/8	10	0400 10 17	24	45	43	24	70	43	69	0,251
G1/2	13	0400 13 21	27	47	44	27	78	45	69	0,327
G3/4	18	0400 18 27	38	63	54	39	90	50	108	0,770

maximum working pressure : 40 bar

0411 with two couplings fitted for use with steel tube

2/2

sand blasted nickel-plated brass body



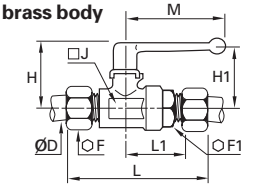
ØD	DN		F	F1	H	H1	J	L	L1	M	kg
6	4	0411 04 06	14	19	38	31	19	76	30	48	0,183
8	6	0411 06 08	17	19	38	31	19	77	30	48	0,182
10	7	0411 07 10	19	19	38	31	19	78	31	48	0,207
12	10	0411 10 12	22	24	45	43	24	85	36	69	0,312

maximum working pressure : 40 bar

0414 with two couplings fitted with double taper rings

2/2

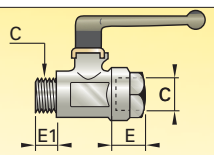
sand blasted nickel-plated brass body



ØD	DN		F	F1	H	H1	J	L	L1	M	kg
6	4	0414 04 06	13	19	38	31	19	72	31	48	0,179
8	6	0414 06 08	14	19	38	31	19	74	30	48	0,181
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	0,305

maximum working pressure : 40 bar

length of female threads (E) and male BSPP threads (E1) 0402 – 0401 and 0400



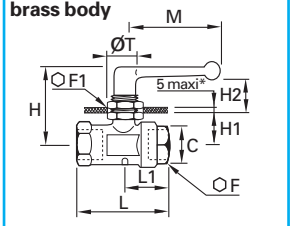
C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"	G1"1/4	G1"1/2	G2"
E	8	12	12	15	16,5	19	21,5	22	26
E1	7	9	11	12	12	15	18		

standard ball valves for screw fixing and panel mounting

0446 double female - panel mounted

2/2

sand blasted nickel-plated brass body



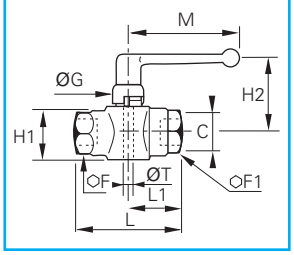
C	DN		F	F1	H	H1	H2	L	L1	M	T	kg
G1/8	4	0446 04 10	14	22	37	14	12	44	25	48	16,5	0,101
G1/4	7	0446 07 13	19	24	45	19	14	53	28	48	20,5	0,189
G3/8	10	0446 10 17	24	27	50	21	21	59	31	69	20,5	0,291
G1/2	13	0446 13 21	27	27	51	23	21	67	34	69	20,5	0,335

maximum working pressure : 20 bar
for model G 1/8, maximum panel thickness = 3 mm

6402 double female - screw fixing

2/2

sand-blasted body nickel plated-brass



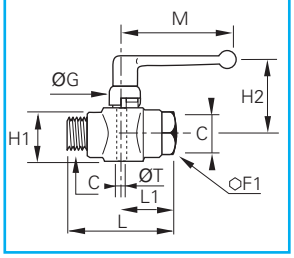
C	DN		F	F1	G	H1	H2	L	L1	M	T	kg
G1/8	4	6402 04 10	14	14	18	18	30	44	25	48	4x70	0,126
G1/4	7	6402 07 13	19	19	19	24	31	53	28	48	5x80	0,215
G3/8	10	6402 10 17	24	24	20	30	45	59	31	69	5x80	0,319
G1/2	13	6402 13 21	27	27	20	34	47	67	34	69	6x100	0,391
G3/4	20	6402 20 27	32	38	27	44	52	80	39	108	8x125	0,823
G1"	23	6402 23 34	41	46	27	53	56	94	47	108	8x125	1,246

maximum working pressure : 40 bar

6401 male and female

2/2

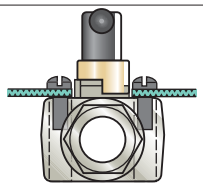
sand-blasted body nickel plated-brass



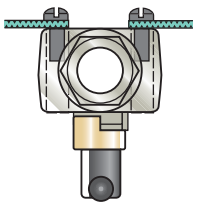
C	DN		F	G	H1	H2	L	L1	M	T	kg
G1/8	4	6401 04 10	14	18	18	30	45	25	48	4x70	0,126
G1/4	7	6401 07 13	19	19	24	31	52	28	48	5x80	0,215
G3/8	10	6401 10 17	24	20	30	45	58	31	69	5x80	0,319
G1/2	13	6401 13 21	27	20	34	47	67	34	69	6x100	0,391

maximum working pressure : 40 bar

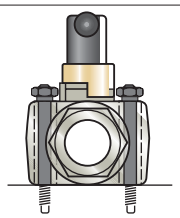
different methods of mounting



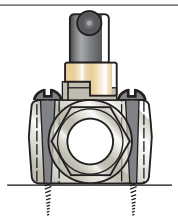
screw fixed mounting on a metal bulkhead with handle above the bulkhead



screw fixed mounting on a metal bulkhead with the complete valve below the bulkhead

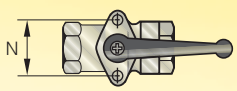


tapped fixing mounting onto a metal plate



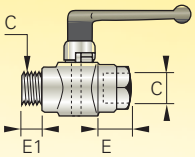
wood screw fixed mounting onto a wooden panel

dimensions between fixing hole centres



C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
N	25	31	31	34	43	51

Thread length (E) and **BSP** parallel male thread (E1) for 0446 - 6401 and 6402 ball valves

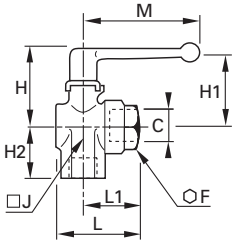


C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
E	8	12	12	15	16,5	19
E1	7	9	11	12		

0472 double female

2/2

sand blasted nickel-plated brass body



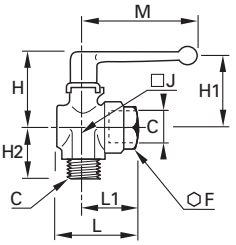
C	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0472 04 10	14	35	29	18	14	34	25	48	0,095
G1/8	6	0472 06 10	19	38	31	20	22	37	27	48	0,178
G1/4	6	0472 06 13	19	38	31	24	22	38	28	48	0,177
G3/8	9	0472 09 17	24	45	43	27	25	46	31	69	0,262
G1/2	12	0472 12 21	27	47	44	33	29	49	34	69	0,315
G3/4	18	0472 18 27	38	59	51	40	39	60	39	108	0,724
G1"	23	0472 23 34	46	63	55	47	48	72	47	108	1,080

maximum working pressure : 20 bar

0471 male and female

2/2

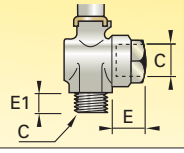
sand blasted nickel-plated brass body



C	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0471 04 10	14	35	29	19	14	34	25	48	0,095
G1/8	6	0471 06 10	19	38	31	22	22	37	27	48	0,168
G1/4	6	0471 06 13	19	38	31	25	22	38	28	48	0,171
G3/8	9	0471 09 17	24	45	43	28	25	46	31	69	0,259
G1/2	12	0471 12 21	27	47	44	32	29	49	34	69	0,308
G3/4	18	0471 18 27	38	59	51	37	39	60	39	108	0,718
G1"	23	0471 23 34	46	63	55	44	48	72	47	108	1,020

maximum working pressure : 20 bar

Thread length (E) and **BSP parallel** male thread (E1) for 0472 and 0471



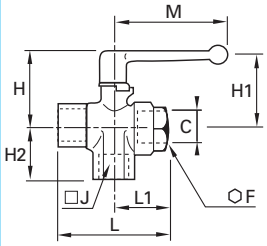
C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
E	8	12	12	15	16,5	19
E1	7	9	11	12	12	15

standard 3 way ball valves

0482 female right angled porting

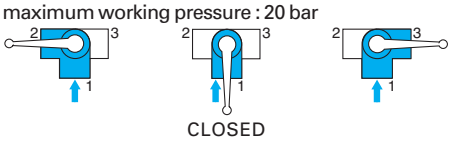
3/3

sand blasted nickel-plated brass body



C	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0482 04 10	14	35	29	18	14	44	25	48	0,110
G1/4	6	0482 06 13	19	38	31	24	22	53	28	48	0,187
G3/8	9	0482 09 17	24	45	43	27	25	59	31	69	0,285
G1/2	12	0482 12 21	27	47	44	33	29	67	34	69	0,351
G3/4	18	0482 18 27	38	59	51	40	39	80	39	108	0,386
G1"	23	0482 23 34	46	63	55	47	48	94	47	108	1,172

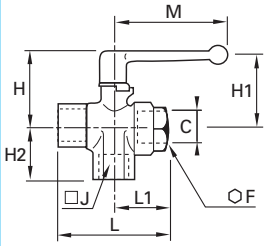
maximum working pressure : 20 bar



0483 female right angled porting without closed position

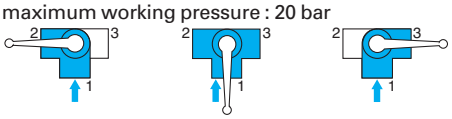
3/3

sand blasted nickel-plated brass body



C	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0483 04 10	14	35	29	18	14	44	25	48	0,102
G1/4	6	0483 06 13	19	38	31	24	22	53	28	48	0,187
G3/8	9	0483 09 17	24	45	43	27	25	59	31	69	0,283
G1/2	12	0483 12 21	27	47	44	33	29	67	34	69	0,352
G3/4	18	0483 18 27	38	59	51	40	39	80	39	108	0,712
G1"	23	0483 23 34	46	63	55	47	48	94	47	108	1,090

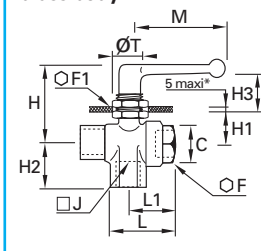
maximum working pressure : 20 bar



0448 panel mountable female right angled porting

3/3

sand blasted nickel-plated brass body



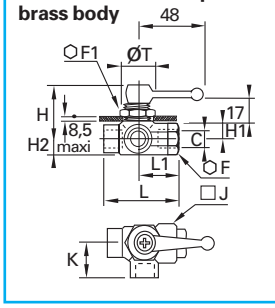
C	DN		F	F1	H	H1	H2	H3	J	L	L1	M	T	kg
G1/8	4	0448 04 10	14	22	37	14	18	12	14	44	25	48	16,5	0,122
G1/4	6	0448 06 13	19	24	45	19	24	14	22	53	28	48	20,5	0,224
G3/8	9	0448 09 17	24	27	50	21	27	21	25	59	31	69	20,5	0,324
G1/2	12	0448 12 21	27	27	51	23	33	21	29	67	34	69	20,5	0,398

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

0452 panel mountable female equal plane porting - 3 port 2way

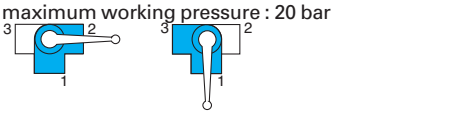
3/2

sand blasted nickel-plated brass body

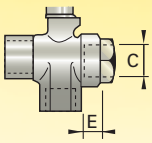


C	DN		F	F1	H	H1	H2	J	K	L	T	kg
G1/8	4	0452 04 10	14	22	39	10	8	16	18	44	25	19	0,316
G1/4	6	0452 06 13	19	24	40	11	11	23	24	53	28	20	0,298

maximum working pressure : 20 bar



length of internal BSPP thread (E)
for 0482 – 0448 – 0452 and 0483



C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
E	8	12	12	15	16,5	19

light series ball valves

Light series ball valves allow the passage of many fluids and are suited to high pressures and temperatures. Their constituent materials are the same as for the standard range.

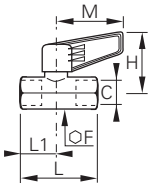
technical specifications

- **maximum working pressure** : 12 bar
- **working temperature** : -20° to +80°C

0492 double female

2/2

nickel-plated brass body
polymer HR handle



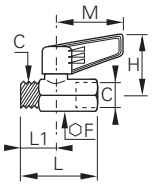
C	DN		F	H	L	L1	M	kg
G1/4	4	0492 04 13	17	34	39,5	17	35	0,071
G1/4	4	0492 04 13 64*	17	36	39,5	17	25	0,069
G3/8	7	0492 07 17	22	38	45	20	43	0,121
G1/2	10	0492 10 21	24	44	54	25	50	0,155
G3/4	13	0492 13 27	30	46	62	28	50	0,237

* Zamac short handle

0491 male and female

2/2

nickel-plated brass body
polymer HR handle



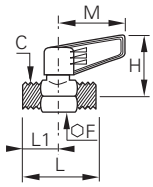
C	DN		F	H	L	L1	M	kg
G1/4	4	0491 04 13	17	34	39,5	17	35	0,071
G1/4	4	0491 04 13 64*	17	36	39,5	17	25	0,069
G3/8	7	0491 07 17	22	38	45	20	43	0,118
G1/2	10	0491 10 21	24	44	53	24	50	0,154
G3/4	13	0491 13 27	30	46	59	25	50	0,228

* Zamac short handle

0490 double male

2/2

nickel-plated brass body
polymer HR handle

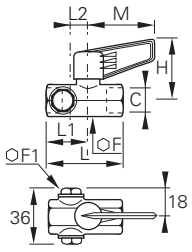


C	DN		F	H	L	L1	M	kg
G1/4	4	0490 04 13	17	34	39	17	35	0,070
G3/8	7	0490 07 17	22	38	44	20	43	0,108
G1/2	10	0490 10 21	24	44	53	24	50	0,152
G3/4	13	0490 13 27	30	46	59	25	50	0,218

0494 double female with two vent plugs

2/2

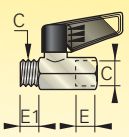
nickel-plated brass body
polymer HR handle



C	DN		F	F1	H	L	L1	L2	M	kg
G3/8	7	0494 07 17	22	16	38	60	20	15	43	0,180

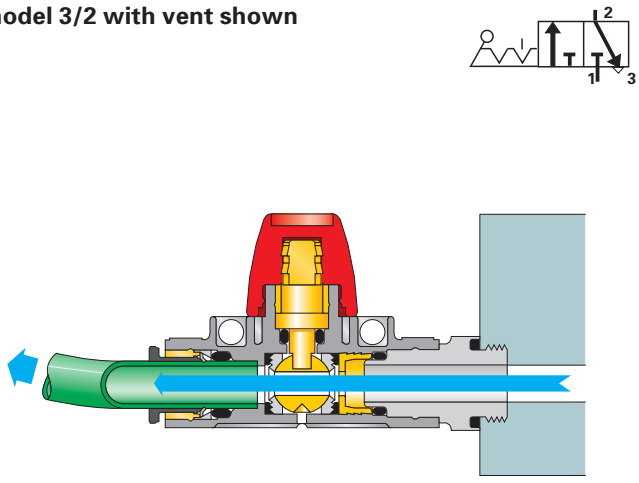
Light series ball valves are also available with a square stem and without handle . Please refer to page R12.

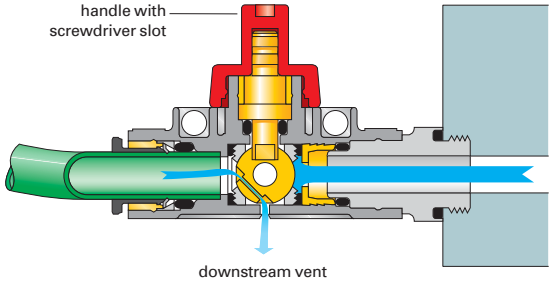
BSPP thread length E and E1
for valves references
0492 - 0491 - 0490 and 0494



C	G1/4	G3/8	G1/2	G3/4
E	9	11	12	14
E1	7	8	10	12

model 3/2 with vent shown





Legris mini-ball valves enable in-line opening and closing of a pneumatic circuit.

Compact and light weight, they are suited to all types of installation. Moreover, thanks to the **3 types of mountin**g available, these models are suited to all applications.

Their screwdriver slot knob allows opening and closing, even when access is difficult. Depending on the model, the handle is differentiated by colour and marked with the corresponding pneumatic symbol, in order to enable **immediate identification** by the user.

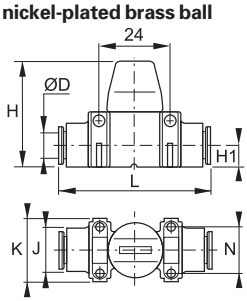
Full passage, Legris mini-ball valves offer excellent flow performance.

Technical specifications

Suitable fluid	compressed air
Maxi pressure	10 bar
Vacuum capability	vacuum of 755 mm Hg (99% of vacuum)
Working temperature	- 20° to + 80°C

7913 3/2, with vent, with push-in connection

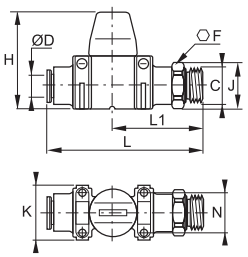
body – polymer H.R.
nickel-plated brass ball



ØD		H	H1	J	K	L	N	kg
4	7913 04 00	37	7,5	15	22	51	16,2	0,022
6	7913 06 00	37	7,5	15	22	52	16,2	0,041
8	7913 08 00	37	7,5	15	22	52	16,2	0,056
10	7913 10 00	43	11	20	30	66	22	0,115
12	7913 12 00	43	11	20	30	66	22	0,147

7914 3/2, with vent, with male BSP parallel thread and push-in connection

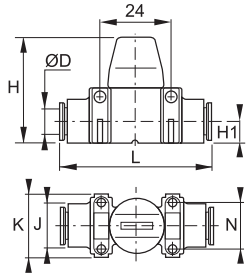
body – polymer H.R.
nickel-plated brass ball



ØD	C		F	H	J	K	L	L1	N	kg
6	G1/8	7914 06 10	13	37	14	22	62	37	16,2	0,054
8	G1/4	7914 08 13	16	37	17,5	22	61	35	16,2	0,068
10	G3/8	7914 10 17	20	43	22	30	74	41	22	0,102
12	G1/2	7914 12 21	24	43	26	30	75	42	22	0,140

7910 2/2, with push-in connection

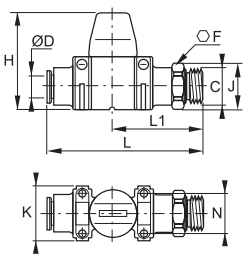
body – polymer H.R.
nickel-plated brass ball



ØD		H	H1	J	K	L	N	kg
4	7910 04 00	37	7,5	15	22	51	16,2	0,021
6	7910 06 00	37	7,5	15	22	52	16,2	0,040
8	7910 08 00	37	7,5	15	22	52	16,2	0,055
10	7910 10 00	43	11	20	30	66	16,2	0,112
12	7910 12 00	43	11	20	30	66	16,2	0,144

7911 2/2, with male BSP parallel thread and push-in connection

body – polymer H.R.
nickel-plated brass ball



ØD	C		F	H	J	K	L	L1	N	kg
6	G1/8	7911 06 10	13	37	14	22	62	37	16,2	0,052
8	G1/4	7911 08 13	16	37	17,5	22	61	35	16,2	0,066
10	G3/8	7911 10 17	20	43	22	30	74	41	16,2	0,098
12	G1/2	7911 12 21	24	43	26	30	75	42	16,2	0,129

7000 joining clips for in-line flow control regulators and mini ball valves

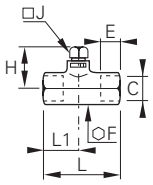
polymer H.R.

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

0497 double female with square stem

2/2

sand blasted brass body

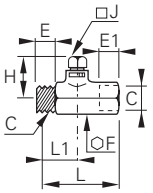


C	DN		E	F	H	J	L	L1	kg
G1/4	4	0497 04 13	9	17	25	7	39	17	0,067
G3/8	7	0497 07 17	11	22	26	7	45	20	0,114
G1/2	10	0497 10 21	12	24	29	10	54	25	0,144
G3/4	13	0497 13 27	14	30	30	10	62	28	0,227

0496 male and female with square stem

2/2

sand blasted brass body



C	DN		E	E1	F	H	J	L	L1	kg
G1/4	4	0496 04 13	9	7	17	25	7	39	17	0,065
G3/8	7	0496 07 17	11	8	22	26	7	45	20	0,099
G1/2	10	0496 10 21	12	10	24	29	10	53	24	0,144
G3/4	13	0496 13 27	14	12	30	30	10	59	25	0,222

lenticular shut-off valves

The internal component used to shut-off the flow of Legris **lenticular shut-off valves** is a segment of a sphere. Therefore, these valves are usable with abrasive fluids (including solid particles).

Lenticular valves can only accommodate **fluid flow in one direction**. The fluid direction is shown by an arrow on the valve body.

The main advantages of this range are **low operating torque**, even with high fluid pressure, due to small friction coefficient of lenticule on the ball seal, **perfect sealing, small overall dimensions** and long life.

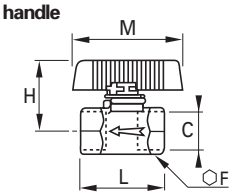
technical specifications :

- maximum working pressure : 16 bar
- working temperature : - 20° to + 80°C
- compatible fluids : compressed air, industrial gas, water, cutting oil, mineral oil, fuel, inert gases, solid particles...
- lenticule : stainless steel
- seals : nitrile

4602 double female

2/2

sand blasted nickel-plated brass body black epoxy coated zamac handle



C		E	F	H	L	M	kg
G1/4	4602 06 13	9	17	35	34	54	0,101
G3/8	4602 07 17	11	22	35	39	54	0,137
G1/2	4602 10 21	12	24	37	42	54	0,142
G3/4	4602 13 27	14	30	40	49	54	0,209
G1"	4602 18 34	15	41	46	55	54	0,408

in-line ball valves, fluoropolymer series

This range of ball valves is suitable for many industrial applications, when the fluid carried and working temperatures require PTFE seals. The range is available in two versions.

H.R. range

- excellent resistance to pressure and temperature constraints
- full flow fluid passage
- silicone free, in order to meet specific application requirements – e.g. automotive process industry.
- both high quality and good value.

Specifications

Fluids : compressed air, gas, water, water steam, oil and all fluids suitable with constituent materials.

Working temperature : -20° to + 130°C

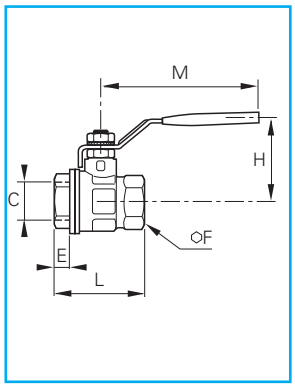
Working pressure : 25 to 30 bar, depending on the model

Materials :

- body: sand blasted nickel-plated brass
- ball: nickel-plated chromed brass
- handle: blue plastic coated steel
- stem : nickel-plated brass
- ball seals: PTFE
- stem seals: PTFE

2/2

4902 double female



C	DN	PN		E	F	H	L	M	kg
G1/4	10	30	4902 10 13	11	20	43	51,5	98	0,140
G3/8	10	30	4902 10 17	11,4	20	43	51,5	98	0,130
G1/2	15	30	4902 15 21	13,5	25	47	55	98	0,200
G3/4	20	30	4902 20 27	12,5	31	58	57,5	122	0,320
G1"	25	30	4902 25 34	15	38	60	69,5	122	0,490
G1"1/4	32	25	4902 32 42*	17	48	77	81,5	153	0,900
G1"1/2	40	25	4902 40 49*	18	54	83	95	153	1,350
G2"	50	25	4902 50 48*	22	66	95	113	162	1,800
G2 1/2"	65	30	4902 65 47*	22	85	132	136	255	4,300
G3"	80	30	4902 80 46*	25	99	140	157	255	5,840
G4"	100	30	4902 01 45*	29	125	154	191	255	9,040

*models with CE marking CE

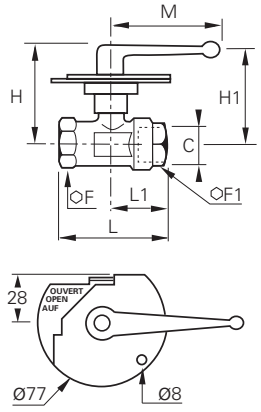
Legris lockable ball valves have been developed in order to prevent potentially dangerous consequences caused by unintended operation. Lockable in different positions, this range meets international **safety** requirements, such as ISO 4414.
Lockable ball valves feature a plate fixed to the valve body and a plate attached to the valve stem. When the plates are padlocked together, the valve handle cannot be moved.
The valves are lockable :

- in both **open and closed position**, by one padlock : models **0432** and **0439**
- **only in the closed position** by up to three padlocks : models **0437** and **0438**.

0432 in-line double female

2/2

sand blasted nickel plated brass



both fixed and moveable plates are zinc plated steel

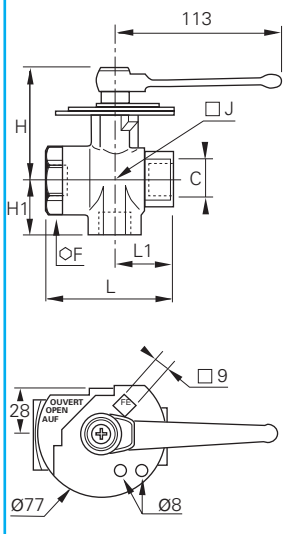
C	DN		F	F1	H	H1	L	L1	M	kg
G1/8	4	0432 04 10	19	19	59	54	51	27	69	0,413
G1/4	7	0432 07 13	19	19	59	54	59	28	69	0,397
G3/8	10	0432 10 17	24	24	60	55	59	31	69	0,463
G1/2	13	0432 13 21	27	27	62	57	67	34	69	0,515
G3/4	20	0432 20 27	32	38	66	56	80	39	108	0,846
G1"	23	0432 23 34	41	46	70	59	94	47	108	1,174

maximum service pressure : 40 bar
handle is non-removeable

0438 female 3 port 2 way lockable ball valve sand blasted nickel-plated body

3/2

nickel plated brass

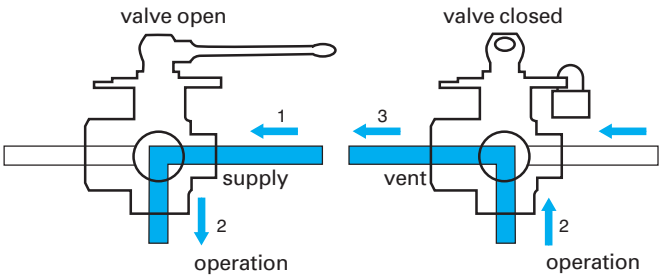


fixed plate : zinc plated steel
moveable plate : steel, grey epoxy coated

C	DN		F	H	H1	J	L	L1	kg
G3/8	9	0438 09 17	38	76	34	39	73	35	0,905
G1/2	12	0438 12 21	38	76	37	39	78	38	0,896
G3/4	18	0438 18 27	38	76	40	39	80	40	0,845
G1"	23	0438 23 34	46	80	47	48	94	47	1,268

maximum working pressure : 20 bar

These valves are lockable in the closed position only.
Right angle ported ball allows flow :
Port **1** to port **2** of from port **2** to port **3**

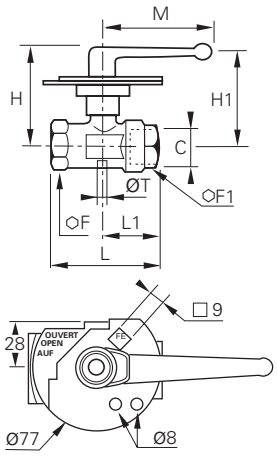


removable handle : where the handle is obstructed in its movement it can be refitted opposite the original position.

0437 in-line double female vented lockable ball valve

3/2

sand blasted nickel-plated body



locking plates are zinc plated steel

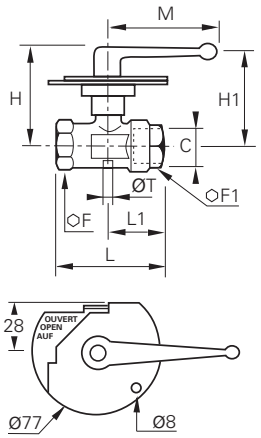
C	DN		F	F1	H	L	L1	M	T	kg
G1/4	7	0437 07 13	24	24	60	59	32	69,5	2	0,397
G3/8	10	0437 10 17	24	24	60	60	32	69,5	2	0,463
G1/2	13	0437 13 21	27	27	60	67,5	34,5	69,5	2	0,515
G3/4	18	0437 18 27	32	38	69,5	80	39,5	108,5	2,5	0,846
G1“	23	0437 23 34	41	46	73	94,5	47,5	108,5	3	1,174

maximum working pressure : 40 bar
handle is non-removable

0439 double female with vent

3/2

sand blasted nickel plated brass

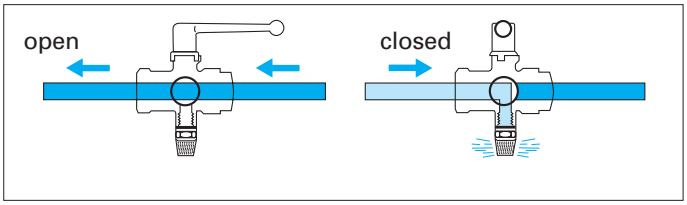


both fixed and moveable plates are zinc plated steel

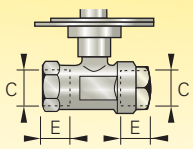
C	DN		F	F1	H	H1	L	L1	M	T	kg
G1/8	4	0439 04 10	19	19	59	54	51	27	69	2	0,420
G1/4	7	0439 07 13	24	24	60	55	59	31	69	2	0,480
G3/8	10	0439 10 17	24	24	60	55	59	31	69	2	0,459
G1/2	13	0439 13 21	27	27	62	57	67	34	69	2	0,511
G3/4	18	0439 18 27	32	38	66	56	80	39	108	2,5	0,834
G1“	23	0439 23 34	41	46	70	59	94	47	108	3	1,166

maximum service pressure : 40 bar
handle is non-removeable

with silencer noiseless discharge to atmosphere



Length of BSPP threads (E) for 0432 – 0439 – 0437 and 0438



C	G1/8	G1/4	G3/8	G1/2	G3/4	G1“
E	8	12	12	15	16,5	19

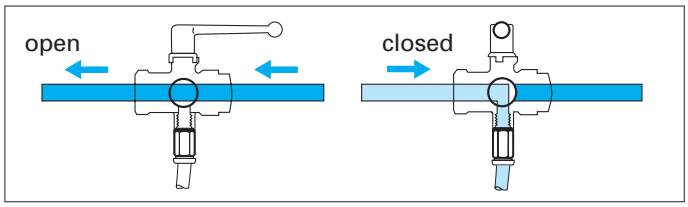
standard, in-line vented ball valves

In certain situations, there is a requirement for stopping fluid circulation and venting the circuit. Therefore Legris offers 2 types of **in-line vented ball valves** :

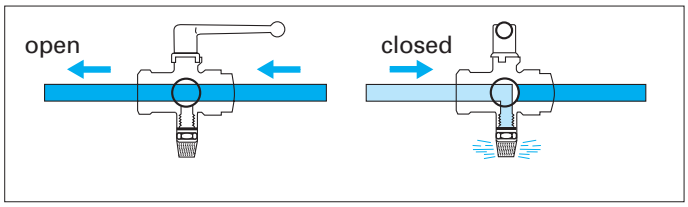
- **with threaded exhaust,** to allow discharge of downstream media.
- **with pin-hole vent,** for applications with no special discharge requirement

Fluid flow direction is indicated by an arrow on the valve body.

with threaded exhaust = collection of purged media



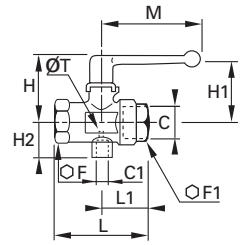
with silencer noiseless discharge to atmosphere



0489 double female BSPP valve with threaded exhaust

3/2

sand blasted nickel-plated body



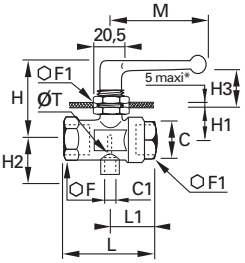
C	DN		C1	F	F1	H	H1	H2	L	L1	M	T	kg
G1/4	7	0489 07 13	M5x0,8	24	24	46	43	17	59	31	69	2	0,269
G3/8	10	0489 10 17	M5x0,8	24	24	46	43	17	59	31	69	2	0,294
G1/2	13	0489 13 21	G1/8	27	27	47	44	24	67	34	69	2	0,312
G3/4	18	0489 18 27	G1/4	32	38	63	54	33	80	39	108	2,5	0,754
G1"	23	0489 23 34	G1/4	41	46	67	57	37	94	47	108	3	1,088

maximum working pressure : 40 bar

0449 double female BSPP valve, panel mountable with threaded exhaust

3/2

sand blasted nickel-plated body



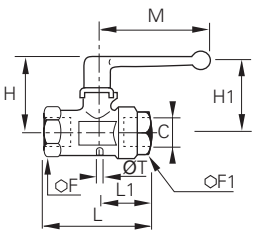
C	DN		C1	F	F1	H	H1	H2	H3	L	L1	M	T	kg
G1/4	7	0449 07 13	M5x0,8	24	27	50	20	17	21	59	31	69	2,5	0,316
G3/8	10	0449 10 17	M5x0,8	24	27	50	20	17	21	59	31	69	2,5	0,298
G1/2	13	0449 13 21	G1/8	27	27	52	23	24	21	67	34	69	4	0,354

maximum working pressure : 20 bar

0469 double female vented BSPP valve

3/2

sand blasted nickel-plated body



C	DN		F	F1	H	H1	L	L1	M	T	kg
G1/8	4	0469 04 10	-	14	35	29	44	25	48	1,5	0,100
G1/4	7	0469 07 13	24	24	46	43	59	31	70	2	0,258
G3/8	10	0469 10 17	24	24	46	43	59	31	70	2	0,246
G1/2	13	0469 13 21	27	27	47	44	67	34	70	2	0,292
G3/4	18	0469 18 27	32	38	63	54	80	39	108	2,5	0,700
G1"	23	0469 23 34	41	46	67	57	94	47	108	3	1,020

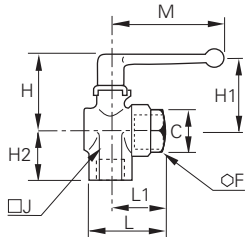
maximum working pressure : 40 bar

standard vented ball valves with right angled flow

0462 double female with vent

3/2

sand blasted nickel-plated brass body + red handle



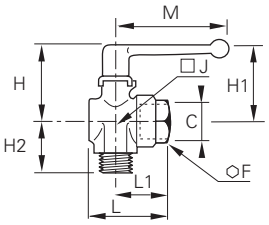
C	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	6	0462 06 10	19	38	31	20	22	37	27	48	0,175
G1/4	6	0462 06 13	19	38	31	24	22	38	28	48	0,175
G3/8	9	0462 09 17	24	45	43	27	25	46	31	69	0,265
G1/2	12	0462 12 21	27	47	44	33	29	49	34	69	0,310
G3/4	18	0462 18 27	38	59	51	40	39	60	39	108	0,730
G1"	23	0462 23 34	46	63	55	47	48	72	47	108	1,054

maximum working pressure : 20 bar

0461 male and female with vent

3/2

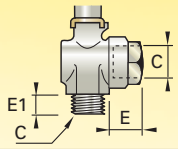
sand blasted nickel-plated brass body + red handle



C	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	6	0461 06 10	19	38	31	22	22	37	27	48	0,169
G1/4	6	0461 06 13	19	38	31	25	22	38	28	48	0,169
G3/8	9	0461 09 17	24	45	43	28	25	46	31	69	0,258
G1/2	12	0461 12 21	27	47	44	32	29	49	34	69	0,312
G3/4	18	0461 18 27	38	59	51	37	39	60	39	108	0,704

maximum working pressure : 20 bar

Thread length (E) and **BSP parallel** male thread (E1) for 0462 and 0461



C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
E	8	12	12	15	16,5	19
E1	7	9	11	12	12	15

high pressure ball valves

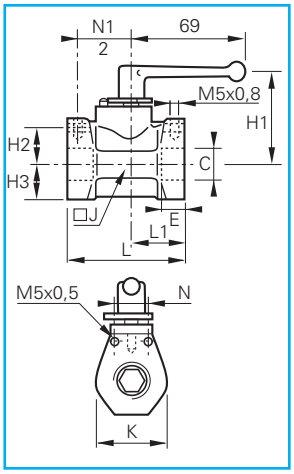
Legris **high pressure ball valves** are suitable for pressures up to 300 bar.

- **advantages**
- secure non removable inlet and outlet ports
- fixing holes for mounting assembly
- handle replaceable by a wheel
- excellent sealing at high and low pressure

- **constituent materials**
- body : hot stamped brass
- ball : polished brass
- ports : steel threaded
- stem : stainless steel
- handle : zamak
- “O” ring, stem seal and compensating “O” ring : nitrile

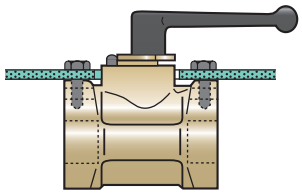
- **working temperature: -15° to +80°C**

4402 double female

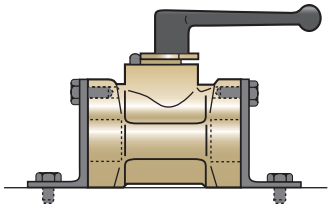


C	DN		E	H1	H2	H3	J	K	L	L1	N	N1/2	kg
G1/4	7	4402 07 13	12	50	13	15	30	30	58	25	15	20	0,374
G3/8	10	4402 10 17	12	54	23	19	36	39	72	36	20	30	0,756
G1/2	13	4402 13 21	15	56	23	21	40	42	79	36	20	30	0,839

different methods for fixing



suspended mounting,
fixed by two screws



surface mounting,
fixed by brackets and screws

stainless steel ball valves

Stainless steel series ball valves are designed for use with corrosive fluids and in aggressive environments. Full bore, they are suited to higher pressure and high temperature applications. Therefore they can be used for a wide range of industrial applications.

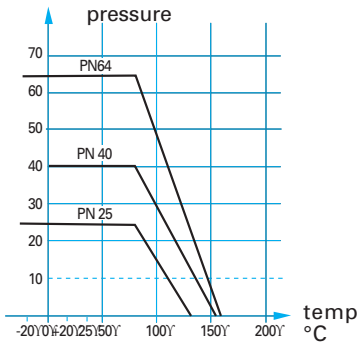
2 versions:

- "**3-piece**" construction: allows the valve to be disassembled in situ, to facilitate maintenance.
- **one piece** construction

● **constituent materials :**

- body, ball, ports, stem : stainless steel 316 L
- handle, lock washer, stop pin : stainless steel 304 L
- nuts, gland seal : stainless steel 303 L
- screw: stainless steel 305 L
- ball seal, stem seal, anti-friction washer : PTFE
- "O" ring : FKM

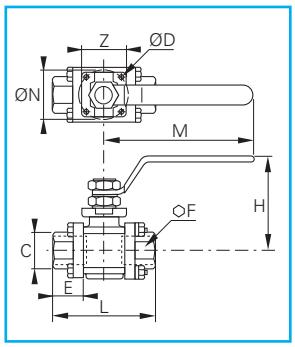
pressure and temperature resistance of stainless steel series ball valves 4832



example : at 100°C
PN 64 becomes 48 bar
PN 40 becomes 30 bar
PN 42 becomes 17 bar
For temperatures between 150° and 200°, please consult us

4832 3 piece double female with lateral dismantling, BSP parallel

2/2

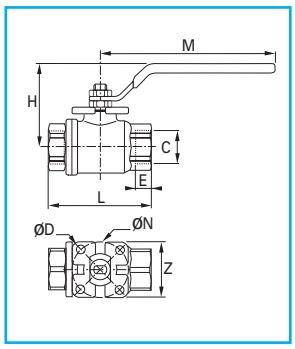


C	DN		PN	ØD	E	F	H	L	M	N	Z	kg
1/4	10	4832 10 13	64	-	18	22	50	57	110,5	-	-	0,425
3/8	10	4832 10 17	64	-	18	22	50	57	110,5	-	-	0,400
1/2	15	4832 15 21	64	6	20,5	27	64	65	131,5	36	36	0,370
3/4	20	4832 20 27	40	5,5	22,5	32	68	76	131,5	42	42	0,555
1"	25	4832 25 34	40	6	27	41	78,5	92	174,5	42	42	1,035
1"1/4	32	4832 32 42*	25	5,5	30	50	83,5	106,5	174,5	42	42	1,465
1"1/2	40	4832 40 49*	25	6,5	31	55	100	116	250,5	50	50	1,995
2"	50	4832 50 48*	25	6,5	36	70	107	136	250,5	50	50	3,140

*models with CE marking CE

4812 double female, one piece, BSP parallel

2/2

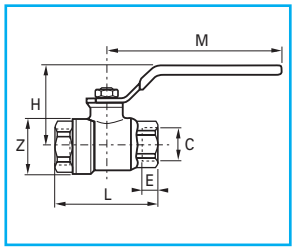


C	DN		PN	ØD	E	H	L	M	ØN	Z	kg
1/4	10	4812 10 13	140	5,5	11	50	55	110	36	36	0,260
3/8	10	4812 10 17	140	5,5	11,4	50	55	110	36	36	0,240
1/2	15	4812 15 21	140	5,5	15	53	66	110	36	36	0,320
3/4	20	4812 20 27	105	5,5	16,3	67	79	130	42	42	0,540
1"	25	4812 25 34	105	5,5	19,1	79	93	175	42	42	0,990
1"1/4	32	4812 32 42*	64	5,5	21,4	83	100	175	42	42	1,340
1"1/2	40	4812 40 49*	64	6,5	21,4	100	110	250	50	50	2,140
2"	50	4812 50 48*	64	6,5	25,7	107	131	250	50	50	3,360

*models with CE marking CE

4810 double female, economy version, BSP parallel

2/2



C	DN		PN	E	H	L	M	Z	kg
G1/4	8	4810 08 13	64	10	44,5	53,5	110,5	30	0,220
G3/8	10	4810 10 17	64	10	44,5	53,5	110,5	30	0,200
G1/2	15	4810 15 21	64	13	47	60	110,5	32,5	0,250
G3/4	20	4810 20 27	40	14	54,5	70	131,5	40	0,450
G1"	25	4810 25 34	40	17	58,5	79	131,5	49	0,850

Threads conform to ISO 228-1.

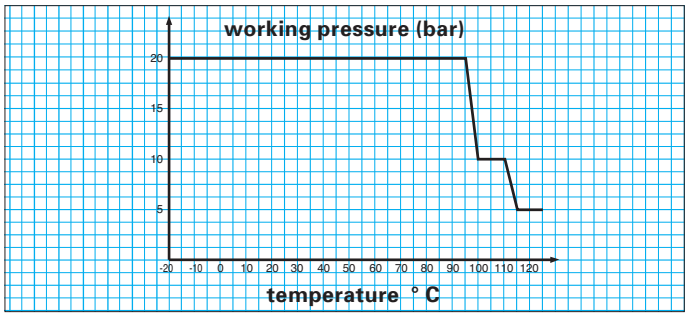
Models 4832 - 4812
These valves have a fixing plate for the mounting of pneumatic or electrical actuators. The dimension of this plate conforms to standard ISO 5211. Threads conform to ISO 7-1 (Rp).

compact stainless steel ball valves

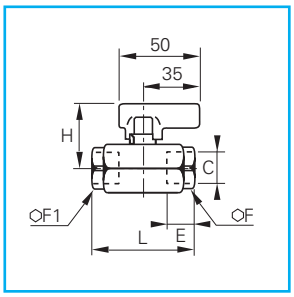
Designed for use with many aggressive and corrosive fluids at pressures not exceeding 20 bar.

- **constituent materials of model 0465:**
- body, ball, ports, stem : stainless steel AISI 303
- handle : nickel-plated brass
- “O” ring, stem seal, ball seal : PTFE

pressure and temperature resistance of compact stainless steel series ball valves 0465



0465 double female



C	DN		PN	E	F	F1	H	L	kg
G1/4	4	0465 04 13	20	13	19	24	36	50	0,224
G3/8	7	0465 07 17	20	13	24	27	39	55	0,278
G1/2	10	0465 10 21	20	16	27	30	40	62	0,323

Legris ball valves — quick reference table

Based on its successful standard range, Legris has developed a range of semi-**standard ball valves** in order to satisfy specific customer applications.
Six versions cover virtually all requirements for different types of fluids. Technical specifications are shown in the chart below.
The following suffixes can be applied on the standard range as following : 0400, 0401, 0402, 0411, 0414, 0432, 0439, 0469 and 0489.

To determine the minimum quantity of each model, please consult us.

On pages R24 to R27, an application table enables correct choice of valve depending on the fluid used.

suffixes :

20 22 26 27 30 32

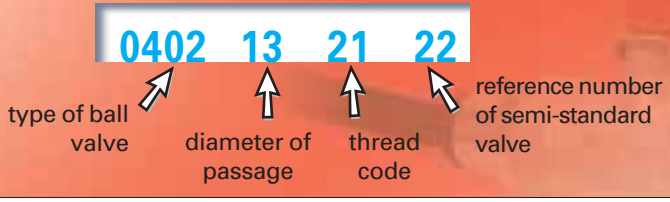
A colour coded band on the handle identifies each semi-standard version.

semi-standard series

identification		body		handle			ball		stem seal and compensating "O" ring			ball seal			examples of applications (refer to the usage tables overleaf for working conditions)
Part number suffix	colour band on handle	nickel-plated brass	chemically nickel-plated brass	stan-dard	nickel-plated brass	chemically nickel-plated brass	nickel plated polished brass	chemically nickel-plated brass	ethylene propy-lene	FKM	fluoro-polymer	Rilsan graphite	glass fibre impre-gnated fluoro-polymer	fluoro-polymer	
20		●		●			●			●		●			for hydrocarbons
22		●		●				●		●			●		for slightly aggressive fluids and high temperatures
26*		●			●			●			ring ●			●	for aggressive liquids or high temperatures
27			●			●		●		●			●		for slightly aggressive fluids and/or not very aggressive environments
30**		●		●			●		●			●			for oxygen gas circuits
32		●		●				●	●				●		for water and steam

* degreased
** grease compatible with oxygen

example of numbering systems for semi-standard ball valves



Legris ball valves – application table

Standard and semi-standard ranges

The following table covers ranges 0400 – 0401 – 0402 – 0411 – 0414 – 0432 – 0439 – 0469 – 0489 – 6401 – 6402.

For others part numbers please refer to the corresponding page of the catalogue for working pressures. Fluids and temperatures are as shown below

To find the maximum pressure of the valves below, with a 32 mm passage, divide by 2.

How to find the fluid, look under :

1. First letter of the first word
2. First letter of the second word
3. In the synonym column

For the fluids, please consult us.

PRODUCT	SYNONYMS / USES	Maximum Pressure kg/cm²	Temperature in C°		Standard	semi-standard					
			min.	max.		20	22	26	27	30	32
ABSOLUTE ALCOHOL		20	-20	Boi. pt							●
ACETONE AND OTHER CETONES	Methylacetyl - Propnone,	20	-20	+60							●
	Dimethyllcetone -Ketopropane										●
ACETOPHENONE	Phenylmethylketone,	20	-20	+60							●
	Hypone Benzaylmethide	20	-20	+60							●
ACETYL - ACETONE											●
ACETYLENE (GAS)		20	-20	+60	●						
ALUMINA (LIQUID, PASTE OR SUSPENSION)	Aluminium Oxide, Al2o3	40	-20	+90	●						
AMYL ALCOHOL	Methyl Butanols And Pentanols	20	-20	Boi. pt							●
ANIMAL OIL		20	+5	+200				●			
ANTIFREEZE OR GLYCOL	Diluted Glycol Or Ethanediol	40	-20	+40	●						
ARGON GAS		20	-20	+60	●						
AUTOMOTIVE - BRAKE FLUID		20	-20	+90							●
BARIUM HYDROXIDE	Barium Hydrate	20	-20	+40							●
BENZALDEHYDE	Benzoicoldehyde, Benzol Hydride	20	-20	+60							●
BENZENE (OR BENZOL)	Benzene, Benzole, Benzine	20	-20	+60							●
BENZYL ALCOHOL	Hydroxytoluene Alphaphenyl,	20	-20	Boi. pt			●				
	Carbinol Pehnmethoyol										●
BORAX (PASTE OR LIQUID)		20	-20	+60							●
BROMOCHLOR TRIFLUOETHANE	Freon	20	-20	+60				●			
BUTADIENE (HYDROCARBON)	Erytrene Or Vinyl Ethylene	20	-20	+60					●		
BUTANE		20	-20	+60	●						
BUTANOL	Butyl-Alcohol	20	-20	Boi. pt			●				
BUTYL-ALCOHOL	Butanol 1	20	-20	Boi. pt			●				
BUTYLENE (HYDROCARBON)	Butene	20	-20	+60			●				
CARBON DIOXIDE		40	-20	+60	●						
CASTOR OIL		40	-20	+90	●						
COLZA OIL	Oil Seed Rape	40	-20	+90	●						
COMPRESSED AIR		40	-20	+100	●						
COPPER SULPHATE, LIME, SODIUM CARBONATE	Insecticide	20	0	+40	●						
CREOSOTE OIL		20	-20	+60					●		
CRESOLS	Cresvsois	20	-20	+60					●		
CUTTING OIL		40	-20	+90	●						
DECALIN (HYDROCARBON, SOLVENT)	Decahydronaphtalene (Terpene)	20	-20	+60					●		

Note : because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

Legris ball valves – application table

Standard and semi-standard ranges

PRODUCT	SYNONYMS / USES	Maximum Pressure kg/cm²	Temperature in C°		Standard	semi-standard					
			min.	max.		20	22	26	27	30	32
DETERGENT SOLUTION	Cleaning Fluid	20	-20	+100							●
DIACETONE ALCOHOL		20	-20	Boi. pt							●
DIESEL OIL		40	-20	+90	●						
DI-ESTERS	Synthetic Lubricant	20	-20	+90			●				
DI-ISO-BUTYLENE	Solvent For Resin Preparation	20	-20	+60					●		
DI-PENTANE	Aliphatic Hydrocarbon	20	-20	+60			●				
DI-PENTENE	Solvent Varnish	20	-20	+60			●				
DI-PHENYL-OXIDE (MOULDING DETERGENT)	Coumarone Or Biphénylene Oxyde	20	-20	+60					●		
DISTILLED WATER		40		+90	●						
EDIBLE FAT	Liquid Or Paste Up To 200 °C	20	+5	+200				●			
EDIBLE OIL	Up To 200 °C	20	+5	+200				●			
ERYTRENE (SEE BUTADIENE)	Hydrocarbon Vinyl-Ethylene	20	-20	+60					●		
ETHANE (HYDROCARBON GAS)		20	-20	+60					●		
ETHANE GAS CH3 CH3		20	-20	+60	●						
ETHANEDIOL (SEE GLYCOL) ANTIFREEZE	Ordinary Glycol Or Ethylene-Glycol	20	-20	+120							●
ETHYL ALCOHOL		20	-20	Boi. pt							●
ETHYL ALCOHOL	Ethanol	20	-20	+60							●
ETHYLENE GLYCOL	Antifreeze Lubricant	20	-20	+120							●
FATTY ALCOHOL		20	-20			●					
FLAX OIL		40	-20	+90	●						
FUEL		40	-20	+40	●						
FUEL OIL		40	-20	+40	●						
GLYCERIN	Glycerol Or Propanetriol	20	-20	+40	●						
GLYCOL (FOR ANTIFREEZE, LUBRICANT)	Ethylene Glycol	40	-20	+40	●						
GRAPHITE (IN SUSPENSION WITH WATER,OIL,FAT)		40	-20	+90	●						
HELIUM (GAS)	Degreasing compulsory	20	-20	+60						●	
HEPTANAL		20	-20	+50	●						
HEXANE (SOLVENT)		20	-20	+60						●	
HIGH OCTANE PETROL	Automotive or Aerospace	20	-20	+40		●					
HYDRAULIC OIL	Petroleum Based	40	-20	+90	●						
HYDROCARBONS - AROMATIC		20	-20	+60			●				
HYDROGEN GAS - AMBIENT TEMPERATURE	Completely Degreased Valve	20	-20	+60						●	
HYDROGEN PEROXID		40	-20	+30		●					
INK	Printing	20	-20	+60					●		
ISO-BUTANE	Methyl, Propane	20	-20	+60					●		
ISO-OCTANE		20	-20	+60					●		
ISOPROPYL ALCOHOL	Propanol 2	20	-20	Boi. pt							●
KRYPTON GAS KR		20	-20	+60	●						
LIGHTING GAS		20	-20	+40	●						
LUBRICATING OIL	Petrol based	40	-20	+90	●						

Note : because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

Legris ball valves – application table

Standard and semi-standard ranges

PRODUCT	SYNONYMS / USES	Maximum Pressure kg/cm²	Temperature in C°		Standard	semi-standard					
			min.	max.		20	22	26	27	30	32
METHANE GAS CH4		20	-20	+60	●						
METHANOL	Methyl Alcohol	20	-20	Boi. pt							●
METHYL ALCOHOL	Methanol 1	20	-20	Boi. pt							●
METHYL ALCOHOL (SOLVENT)	Methanol	20	-20	Boi. pt							●
MINERAL OIL		40	-20	+90	●						
MINERAL PETROLEUM OIL	Up To 160 °C	20	-20	+160			●				
NATURAL WAXES (VEGETABLE, BEES,		40	-20	+90				●			
CARNAUCA, CHINA, LIGNITE)									●		
NATURAL GAS		20	-20	+40	●						
NEON GAS NE		20	-20	+60	●						
NITROGEN GAS N2		40	-20	+90	●						
ORDINARY PETROL		20	-20	+40	●						
ORDINARY WATER		40		+80	●						
OXYGEN (AMBIENT TEMPERATURE)	Degreased	20	-20	+40						●	
PAINT AND RELEVANT SOLVENTS		20	-20	+60				●			
PARAFFIN	Ozokerite	20	-20	+60	●						
PARAFFIN OIL		40	-20	+90	●						
PENTANE (LQUID HYDROCARBON)		20	-20	+60	●						
PENTANOLS 1 AND 2	Amylic Alcohol Or Methyl Butanol	20	-20	Boi. pt							●
PETROLEUM		20	-20	+40		●					
PETROLEUM FAT		40	-20	+90	●						
PETROLEUM OIL AND EMULSION WATER		40	-20	+90	●						
PHENOL (ALCOHOLIC	Phenic Or Carbonic Acid	20	-20	+60				●			
OR AQUEOUS SOLUTION)											
PROPANE		20	-20	+60	●						
PROPANOLS 1 AND 2	Propyl Alcohol And Isopropyl	20	-20	Boi. pt	●						
PROPENE OR PROPILENE	Various Preparations - Synthetic	20	-20	+60			●				
PROPYL ALCOHOL	Propanol	20	-20	Boi. pt							●
SAPONIFYING LIQUIDS		20		+30	●						
SEA WATER		40		+80	●						
SEA WATER - HIGH TEMPERATURE		20		+150					●		
SOAP	Liquid, Paste, Solutions	20	-20	+40							●
SOAP (LIQUID OR PASTE)		40	-20	+100	●						
SODIUM CARBONATE (WITH WATER)	Carbonated Water	20	0	+40	●						
STARCH - GELS OR PASTE		40	+10	+40	●						
(GLUE, COSMETICS) C6H10O5											
STEAM AT 150 °C MAXI		20		+150							●
SYNTHETIC OIL		20	-20	+100							●
TOLUENE	Methyl-Benzene (Solvent,Synthetic)	20	-20	+60				●			
TRICHLOROETHYLENE	Fatting Solvent	20	-20	+65			●				

Note : because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

Legris ball valves – application table

Standard and semi-standard ranges

PRODUCT	SYNONYMS / USES	Maximum Pressure kg/cm²	Temperature in C°		Standard	semi-standard					
			min.	max.		20	22	26	27	30	32
TURPENTINE	Turps	20	-20	+50	●						
VARNISH AND PAINT	And Relevant Solvent	20	-20	+60				●			
VASELINE		40	-20	+60	●						
VASELINE OIL		40	-20	+90	●						
WATER - HIGH TEMPERATURE		20		+150							●
WATER WITH CARBONATED GAS		40		+90	●						
WHITE SPIRIT	Mix Of Methyl,				●						
	And Ethyl Alcohol And Acetone	40	-20	-40	●						
XENON (GAS) XE		20	-20	+60	●						
XYLENE		20	-20	+60			●				

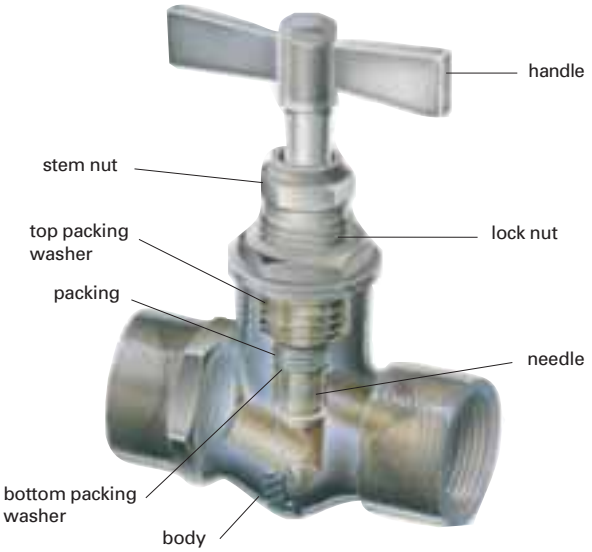
Note : because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

principle of needle valves

Legris needle valves are designed for use where a combination of fluid control and perfect sealing is required.

They incorporate a wide selection of port configurations to ensure simple assembly in any system.

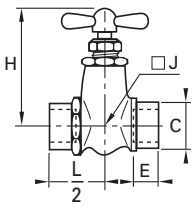
technical specifications



Maximum working pressure	120 bar
Working temperature	from - 20° C to + 100 ° C (except 0510)
constituent materials	body : sandblasted nickel plated brass handle : zamac or nickel plated brass needle : nickel plated brass stem nut : nickel plated brass (except 0510) lock nut : nickel plated brass washers : brass (except 0510) packing : mineral fiber

0502 in-line double female, BSP parallel

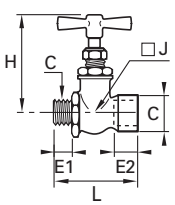
sand blasted nickel plated brass



C	DN		E	H maxi	H mini	J	L/2	kg
G1/8	4	0502 04 10	9	56	50	17	23	0,110
G1/4	4	0502 04 13	11	56	50	17	23	0,110
G3/8	6	0502 06 17	12	67	60	-	26	0,160
G3/8	9	0502 09 17	12	82	70	-	33	0,410

0501 in-line male/female, BSP parallel

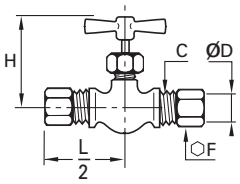
sand blasted nickel plated brass



C	DN		E1	E2	H maxi	H mini	J	L	kg
G1/8	4	0501 04 10	7	9	56	50	17	44	0,105
G1/4	4	0501 04 13	9,5	11	56	50	17	46	0,110
G3/8	6	0501 06 17	9,5	12	67	60	-	48	0,155

0510 in-line economy valve with compression couplings

sand blasted nickel plated brass

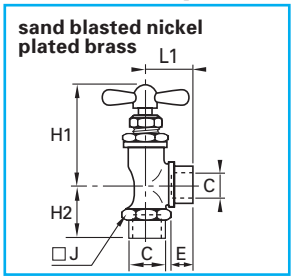


ØD	DN		C	F	H maxi	H mini	L/2	kg
6	4	0510 04 06	10x100	13	46	42	29	0,090
8	5	0510 05 08	12x100	14	46	42	30	0,090
10	5	0510 05 10	16x150	19	46	42	31	0,110

The needle is sealed by an "O" ring
Maximum operating pressure Ø4 : 100 bar
Ø5 : 60 bar
Working temperature : -15°C to +70°C

0532 right angled double female, BSP parallel

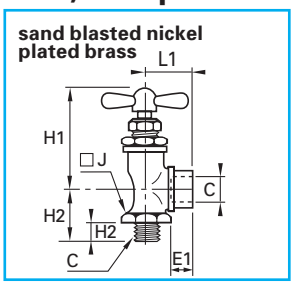
sand blasted nickel plated brass



C	DN		E	H maxi	H1 mini	H2	J	L1	kg
G1/8	4	0532 04 10	9	52	46	19	17	19	0,085
G1/4	4	0532 04 13	11	52	46	21	17	21	0,095
G1/4	6	0532 06 13	11	63	55	26	22	26	0,175

0531 right angled male/female, BSP parallel

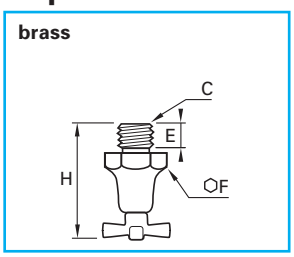
sand blasted nickel plated brass



C	DN		E1	E2	H maxi	H1 mini	H2	J	L1	kg
G1/8	4	0531 04 10	7	9	52	46	19	17	19	0,080
G1/4	4	0531 04 13	9,5	11	52	46	21	17	21	0,085
G1/4	6	0531 06 13	9,5	11	63	55	25	22	26	0,170
G3/8	6	0531 06 17	9,5	12	63	55	25	22	27	0,195
G1/2	10	0531 10 21	13	16	72	62	34	26	33	0,310

0562 needle drain valve, BSP parallel or metric

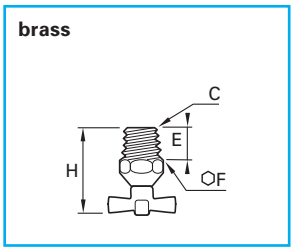
brass



C	DN		E	F	H maxi	H mini	kg
G1/8	5	0562 05 10	8	16	40	36	0,035
M10x1	5	0562 05 60	8	16	40	37,5	0,035
G1/4	5	0562 05 13	10	19	42,5	38,5	0,040

0563 needle drain valve, NPT

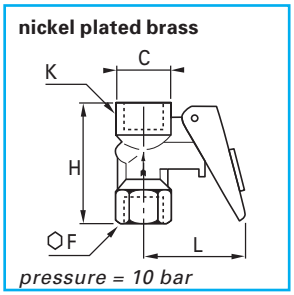
brass



C	DN		E	F	H maxi	H mini	kg
1/4	5	0563 05 14	10	14	32,5	28,5	0,060

0627 automatically venting double female pressure gauge valve

nickel plated brass



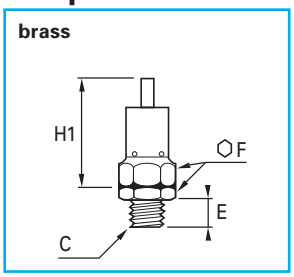
pressure = 10 bar

C		F	H	K	L maxi	L mini	kg
G1/4	0627 00 13	19	43,5	20	22	40	0,100

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 BSP parallel

brass



C	DN		E	F	H1	kg
G1/4	6	0630 06 13	9	17	42,5	0,100

This valve is delivered without calibration, but can be adjusted by inserting metal washers into the hexagon (F).

Principle of the Axial valve

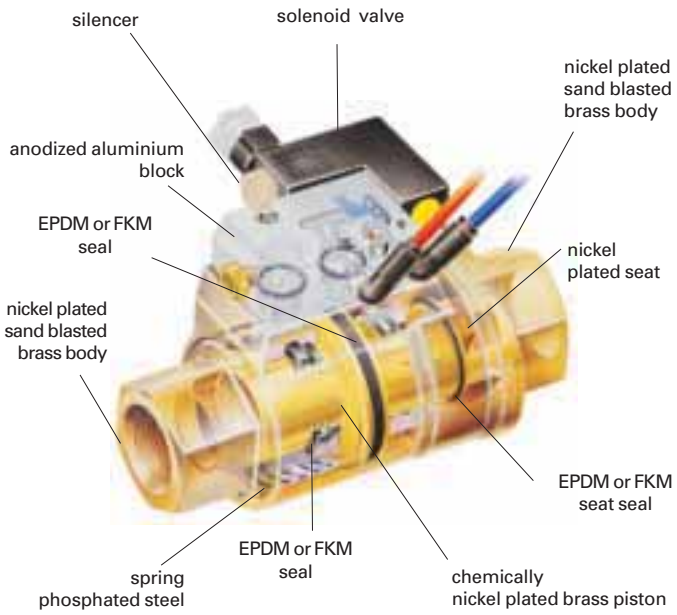
Designed with a view to overcoming the limitations of traditional actuators, the **Legris axial valve** offers the functions of a valve fitted with an actuator. A pneumatic automation device is fitted directly into the valve.

Its operation is not affected by the up/downstream pressures of the transported fluids, which guarantees the user total safety and a vastly simplified choice.

Principal advantages:

- **compactness**: the axial valve is extremely compact and requires up to 50% **less space** than an actuated valve.
- **costs less** than an actuated valve: a single unit which controls the following two functions at the same time opening/closing of circuit and actuation of this function.
- high **performance**: full flow, compatible with numerous industrial fluids
- straightforward reliable installation: **ready to fit**.

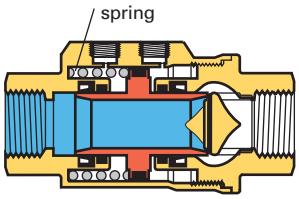
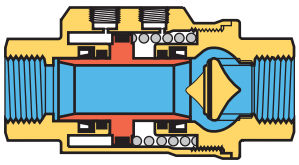
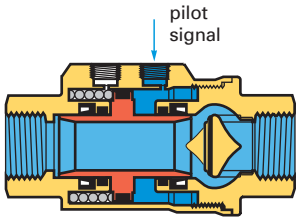
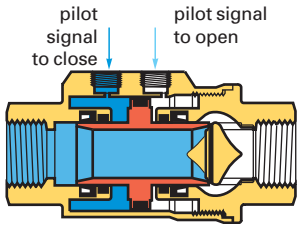
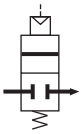
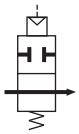
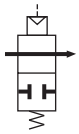
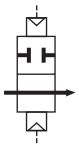
technical specifications



transported fluid	- all fluids compatible with : • **FKM** : water, air, oils, greases... • **EPDM** : hot water, air, steam...
maximum working pressure	10 bar
maximum temperature	with FKM seal + 135° C with EPDM seal + 120° C
minimum temperature	- 20°C
vacuum capability	740 mm Hg (97,4% vacuum).
pilot fluid	filtered compressed air
pilot pressure	NC and NO : 4,2 to 8 bar double acting : 3 to 8 bar

operation

Depending upon the operational requirement, air is passed into the actuation chamber, as shown below, in order to open or close the valve.

rest state (valve closed)	rest state (valve open)	piloted state (valve open)	piloted state (valve closed)
			
normally closed axial valve in closed position 	**normally open axial valve in open position** 	**normally closed axial valve in open (actuated) position** 	**double acting axial valve in closed position** 

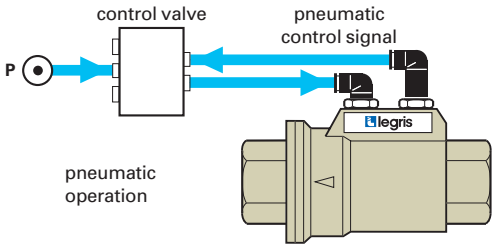
which control method ?

The **Legris** axial valve offers three different control methods dependant on the requirements of the installation:

pneumatic control

example : 4222 axial valve, double acting

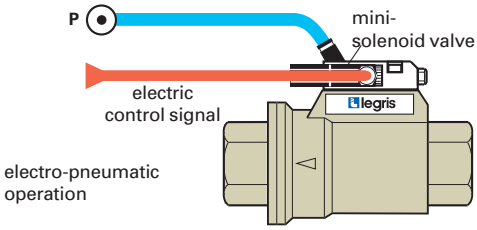
-on-site control.
-for **repetitive** on/off **cycles**.
-remote control in case of **difficulty of access** to a machine.



electro-pneumatic control

example :
4202 axial valve, normally closed
+ 4298 mini-solenoid valve and subbase

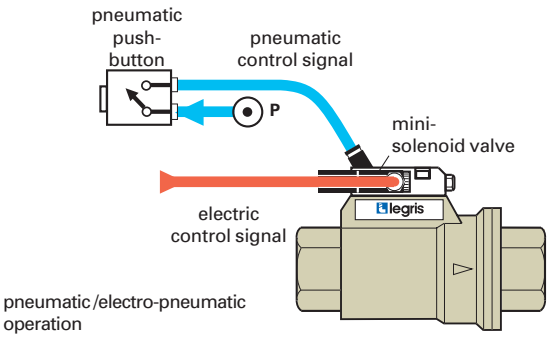
- for industrial automation requiring **remote control**.



pneumatic/electro-pneumatic dual control

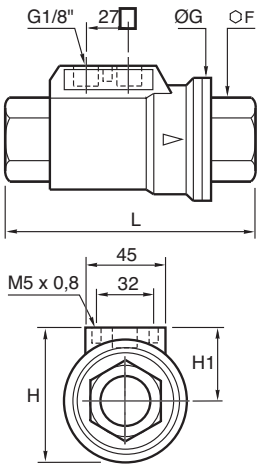
example :
4212 axial valve, normally open
+ 4298 mini-solenoid valve and subbase
+ 4299 switch

-dual control structure
-for increased safety :
prevents all localized operating errors.



4202 normally closed, double female, BSP parallel

sand blasted nickel plated brass body



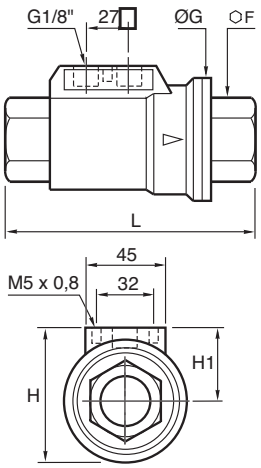
C	DN	FKM seal	F	G	H	H1	L	kg
G3/8	10	4202 10 17 20	22	46	54	31	98	0,814
G1/2	15	4202 15 21 20	27	52	60	35	112	1,085
G3/4	20	4202 20 27 20	33	64	70	38	135	1,634
G1"	25	4202 25 34 20	41	69	76	41,5	143	2,024
G1"1/432		4202 32 42 20*	50	86	91	48	165	3,301
G1"1/240		4202 40 49 20*	60	96	102	54	180	4,180
G2"	50	4202 50 48 20*	75	109	115	60,5	207	6,360

C	DN	EPDM seal	F	G	H	H1	L	kg
G3/8	10	4202 10 17 30	22	46	54	31	98	0,814
G1/2	15	4202 15 21 30	27	52	60	35	112	1,085
G3/4	20	4202 20 27 30	33	64	70	38	135	1,634
G1"	25	4202 25 34 30	41	69	76	41,5	143	2,024
G1"1/432		4202 32 42 30*	50	86	91	48	165	3,301
G1"1/240		4202 40 49 30*	60	96	102	54	180	4,180
G2"	50	4202 50 48 30*	75	109	115	60,5	207	6,360

Pilot port : 1/8" BSP parallel
Complete with M5 silencer

4212 normally open, double female, BSP parallel

sand blasted nickel plated brass body



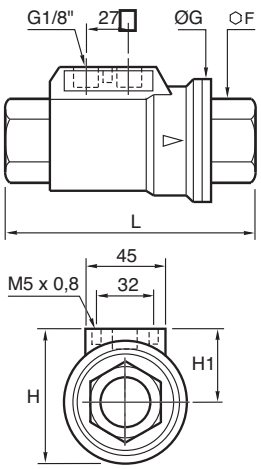
C	DN	FKM seal	F	G	H	H1	L	kg
G3/8	10	4212 10 17 20	22	46	54	31	98	0,814
G1/2	15	4212 15 21 20	27	52	60	35	112	1,085
G3/4	20	4212 20 27 20	33	64	70	38	135	1,634
G1"	25	4212 25 34 20	41	69	76	41,5	143	2,024
G1"1/432		4212 32 42 20*	50	86	91	48	165	3,301
G1"1/240		4212 40 49 20*	60	96	102	54	180	4,180
G2"	50	4212 50 48 20*	75	109	115	60,5	207	6,360

C	DN	EPDM seal	F	G	H	H1	L	kg
G3/8	10	4212 10 17 30	22	46	54	31	98	0,814
G1/2	15	4212 15 21 30	27	52	60	35	112	1,085
G3/4	20	4212 20 27 30	33	64	70	38	135	1,634
G1"	25	4212 25 34 30	41	69	76	41,5	143	2,024
G1"1/432		4212 32 42 30*	50	86	91	48	165	3,301
G1"1/240		4212 40 49 30*	60	96	102	54	180	4,180
G2"	50	4212 50 48 30*	75	109	115	60,5	207	6,360

Pilot port : 1/8" BSP parallel
Complete with M5 silencer

4222 double acting, double female, BSP parallel

sand blasted nickel plated brass body



C	DN	FKM seal	F	G	H	H1	L	kg
G3/8	10	4222 10 17 20	22	46	54	31	98	0,814
G1/2	15	4222 15 21 20	27	52	60	35	112	1,085
G3/4	20	4222 20 27 20	33	64	70	38	135	1,634
G1"	25	4222 25 34 20	41	69	76	41,5	143	2,024
G1"1/432		4222 32 42 20*	50	86	91	48	165	3,301
G1"1/240		4222 40 49 20*	60	96	102	54	180	4,180
G2"	50	4222 50 48 20*	75	109	115	60,5	207	6,360

C	DN	EPDM seal	F	G	H	H1	L	kg
G3/8	10	4222 10 17 30	22	46	54	31	98	0,814
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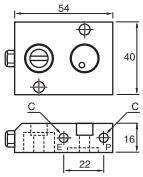
G3/4	20	4222 20 27 30	33	64	70	38	135	1,634
G1"	25	4222 25 34 30	41	69	76	41,5	143	2,024
G1"1/432		4222 32 42 30*	50	86	91	48	165	3,301
G1"1/240		4222 40 49 30*	60	96	102	54	180	4,180
G2"	50	4222 50 48 30*	75	109	115	60,5	207	6,360

Pilot port : 1/8" BSP parallel

Face plate in accordance with recommendations in force (NAMUR). *Models with CE marking CE

4298 subbase for solenoid pilot valve

anodized aluminium

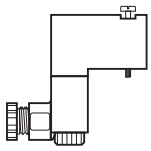


C		kg
M5x0,8	4298 00 01	0,094

The subbase is fitted directly to the axial valve and permits the mounting of a 15x15 solenoid valve.

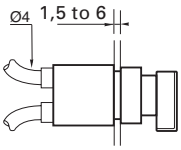
Supplied with 2 fixing bolts, silencer and seals

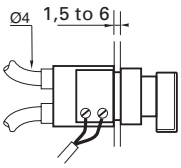
4298 mini-solenoid valve 1W/1,2VA



voltage		
24V ⎓	Alternating current	4298 01 01
24V ∿	Direct current	4298 01 02
110V ∿	Direct current	4298 02 01
220V ∿	Direct current	4298 02 02

4299 pneumatic button/electro-pneumatic





1 pneumatic contact	
standard	4299 01 01
with key	4299 01 02

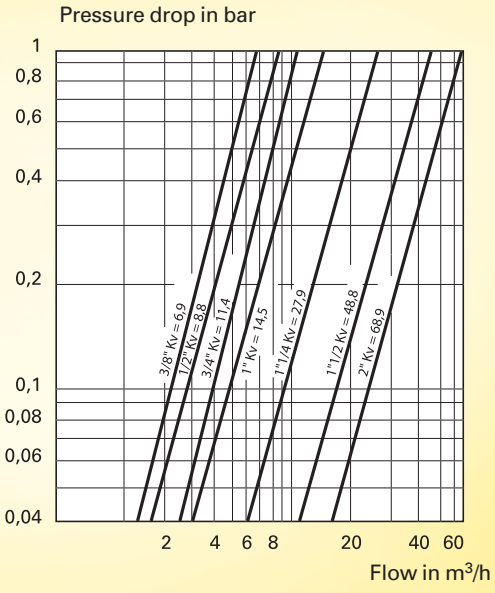
1 electro-pneumatic contact	
standard	4299 02 01
with key	4299 02 02

Bulkhead fixing hole diameter : 22 mm

Flow curve / Pressure drop / Kv

Kv in m^3/h

(water at ambient temperature, under a differential pressure of one bar)



Upon special request, we can supply

- replacement seal kits (all types i.e. FKM, EPDM, Nitrile)
- axial valves equipped with magnetic sensors to indicate their state (open and/or closed)
- chemically nickel-plated axial valves

Please, do not hesitate to consult us.

special products

legris connectic

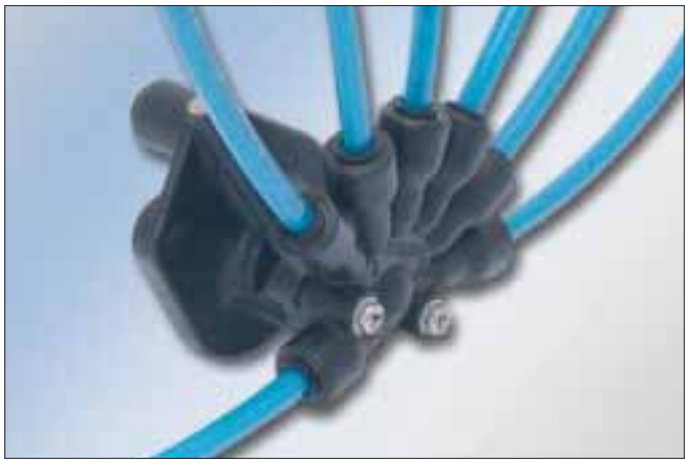
special products

Legris has substantial experience in the deisgn and manufacture of special fittings and assemblies for fluid control :

- whether developed from standard product
- or developed hand-in-hand with customers

Our aim is to design, develop and put into series production products or assemblies which give our customers a "profit" in terms of :

- competitive pricing
- technical excellence
- compact size, etc



manifold with push-in connections for oil distribution.

LF 3000 multi-connector for compact installations.

Instant fitting with special seal, for low pressure circuits.

LF 3000 instant fittings for connection with close hole centres.

multi-connector for self fastening tubing

technical tubes (crystal polyurethane and colourless nylon) marked with a band to allow identification of fluids.

preassembled polyurethane tubing with 16 outlets for quick installation in many profiles.

ball valve handle shape allows manipulation with one finger.

nylon recoil tubing allowing 3 assemblies in compact spaces for high flexibility.

LF 3600 instant connection / for use with non-grooved stainless steel tubing

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