KATALOG

# Pneumatické prvky LEGRIS

Spojky, hadice a příslušenství pro stlačený vzduch










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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.*

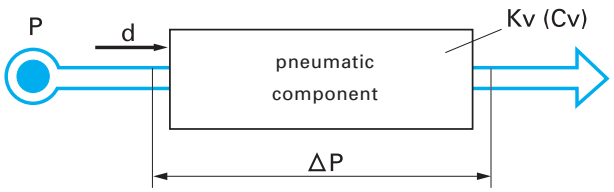
*In addition, our production process includes individual unit quality control and dating, for all push-in fittings, in order to guarantee their **quality** and **traceability**.*

# 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 :

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

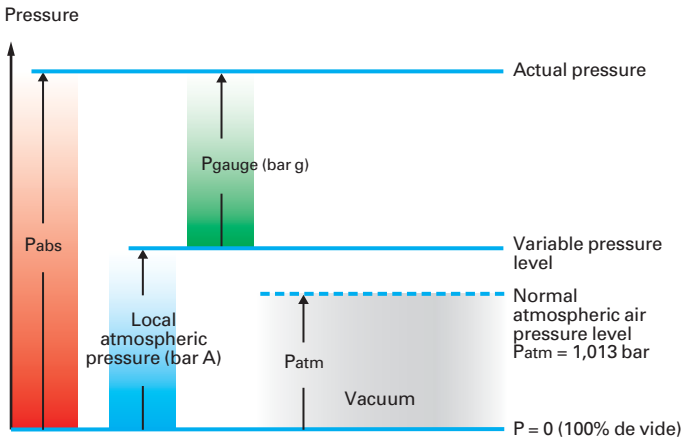
**Qv** = flow in l/min
**Kv** = flow coefficient
Δ**p** = in bar
**P upstream** : in absolute bar

**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

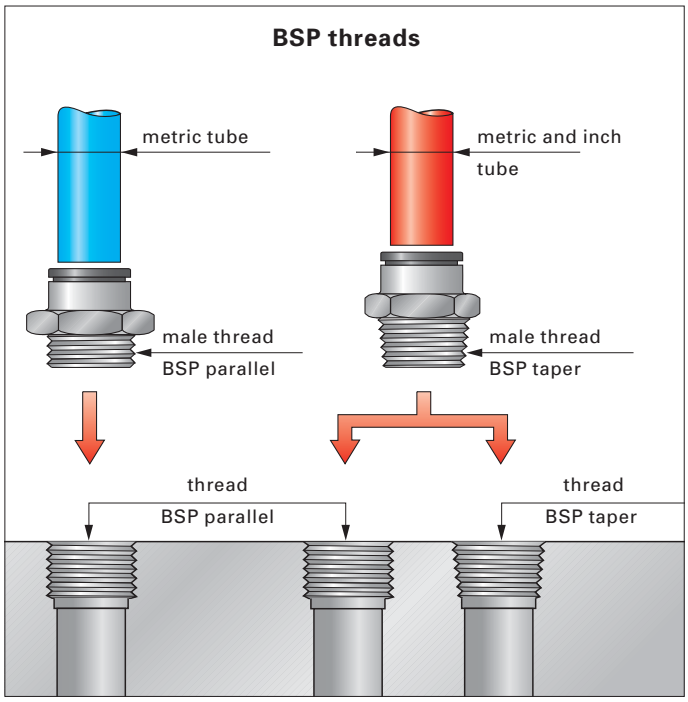
Vacuum appears when atmosphere is rarefied. By evacuating the air in a closed space, partial vacuum is generated.
Therefore vacuum corresponds to the decrease in pressure below the normal value of atmospheric pressure.

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.

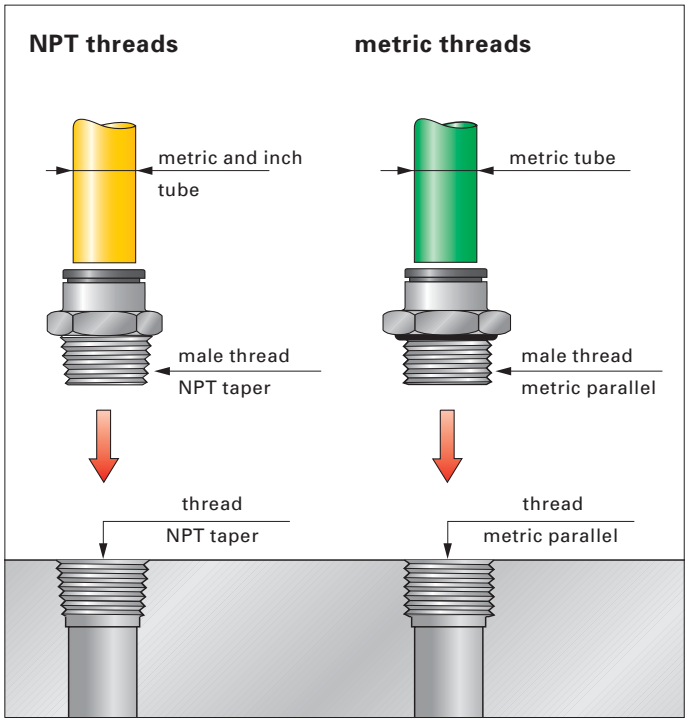
**thread designation**

- **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

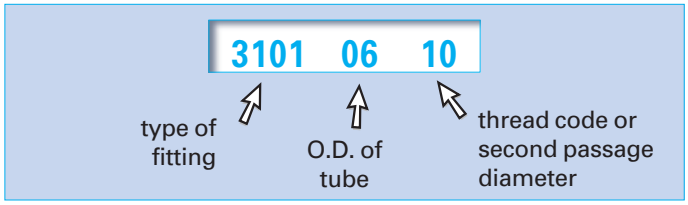
To help users, Legris classifies its product ranges with specific part numbers which provide easy identification of each item.

### 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

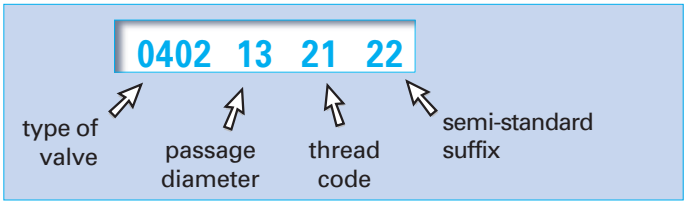
#### fittings




**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

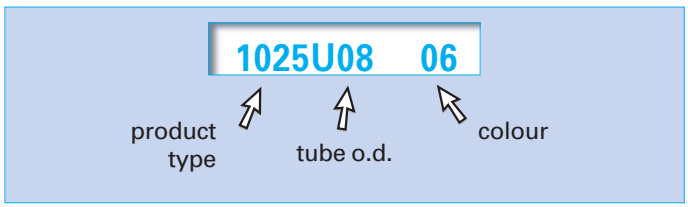
| NPT thread | code |
|---|---|
| 1/16 | 08 |
| 1/8 | 11 |
| 1/4 | 14 |
| 3/8 | 18 |
| 1/2 | 22 |
| 3/4 | 28 |
| 1" | 35 |
| 1"1/4 | 43 |
| 1"1/2 | 50 |
| 2" | 44 |

| 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

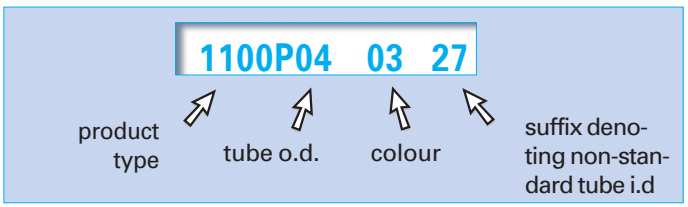
Part numbers have been chosen by a method of mnemonics. Each tube and hose is identified by :

- 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.

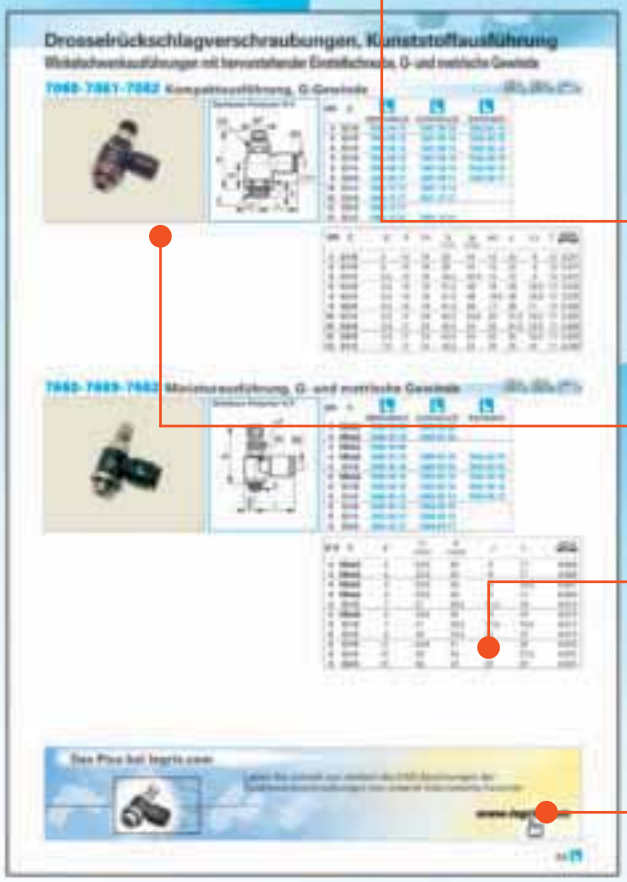



**one colour** per type of product.

**« 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

# contents


**pneumatic applications**

**push-in fittings, system LF 3000** - pages A1 to A40




**pneumatic function fittings** - pages B1 to B43




**for all fluid applications**

**LF 3600 push-in fittings** - pages C1 to C15
**LF 6000 anti-spark push-in fittings** - pages C16 to C19
**instant fittings for centralised lubrication** - pages C20 to C23
**brass compression fittings** - pages D1 to D25




**accessories and plugs** - pages E1 to E23




**for aggressive fluids and environments : stainless steel fittings**

**LF 3900 / LF 3800 push-in fittings** - pages F1 to F12
**function fittings** - pages G1 to G6
**compression fittings** - pages H1 to H10
**accessories and plugs** - pages J1 to J8




**technical tubes and hoses** - pages K1 to K28




**quick acting couplers** - pages L1 to L43
**universal blowguns** - pages M1 to M7




**industrial ball valves** - pages R1 to R33
**special products** - pages Y1 to Y3





# push-in fittings
# system LF 3000®



legris
connectic

# principle of system LF 3000®





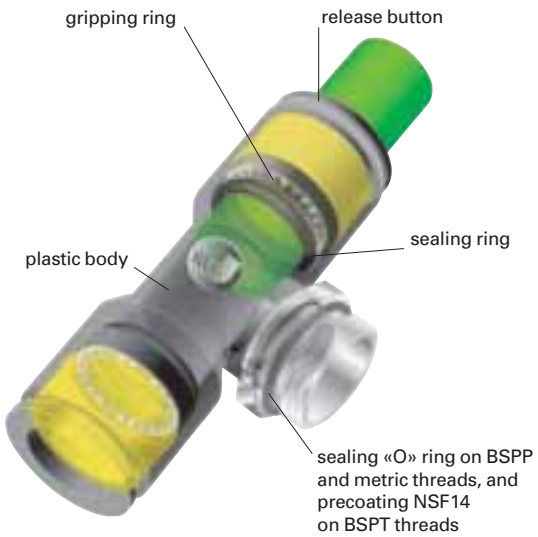
Invented and launched by **Legris** in 1969, the **LF 3000® system** has been adopted extensively throughout the world and has been designed using a simple and widely proven operating principle which allows instant fitting.
**Connection** of tube to fitting is made by simply pushing the tube into the 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

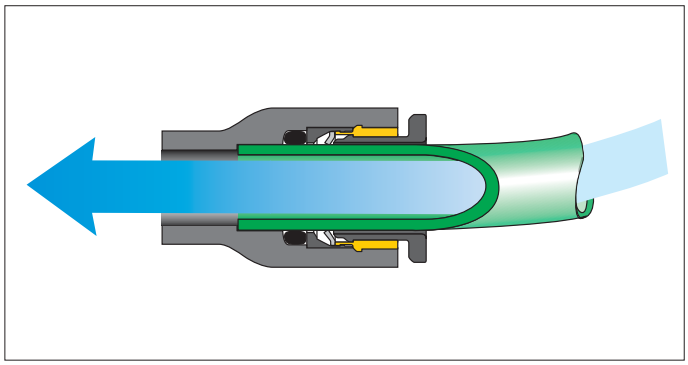
Reliable performance is dependent upon the type of tubing being used, ambient temperature and fluid conveyed together with the suitability of the component materials of the fitting, according to the application.
**LF 3000® push-in fittings conform to ISO 14743 standard.**




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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **suitable fluids** | compressed air<br>For further information on use with fluids, please consult us. | | | | | | | |
| **working pressure** | 20 bar maximum<br>Maximum circuit pressure depends equally on the type and diameter of tubing used.<br>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<br>Suitability depends equally on the type and OD of the tube used.<br>For temperatures above 80°C, please consult us. | | | | | | | |
| **constituent materials** | **body** : glass reinforced nylon 6.6<br>**gripping ring** : stainless steel<br>**sealing ring** : nitrile (EPDM, FPM on request)<br>**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®



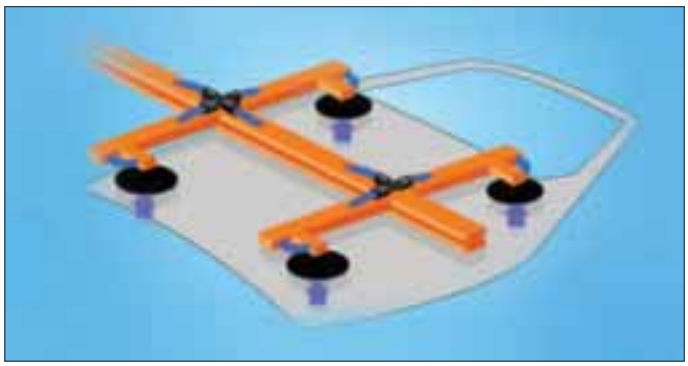
## performance and reliability

- **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 .



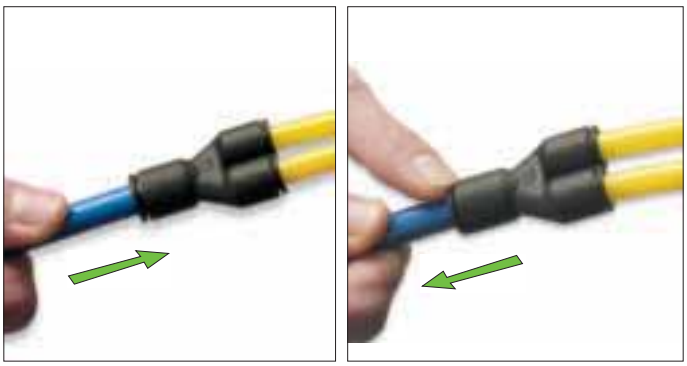
## one of the most extensive ranges on the market

- **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

**3175** taper Page A6



**3101** parallel Page A7



**3181** parallel Page A7



**3114** parallel Page A7



**3121** taper Page A10



**3131** parallel Page A11



### elbows

**3109** taper Page A8



**3129** taper Page A8



**3113** taper Page A8



**3199** parallel Page A9



**3169** parallel Page A9



**3133** parallel Page A9



**3192** parallel Page A13



**3159** oscillating, taper Page A29



**3189** oscillating, parallel Page A29



### tees

**3108** taper Page A10



**3103** taper Page A10



**3198** parallel Page A11



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### «Y» piece

**3148** taper Page A12



**3112** taper Page A12



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## tube to tube fittings

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## bulkhead connector fittings

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## banjo fittings

**3118** parallel Page A15



**3018** taper Page A15



**3124** parallel Page A14



**3149** parallel Page A14



**3119** parallel Page A14



## multiple fittings and manifolds

**3304** Page A21



**3306** Page A21



**3107** Page A21



**3310** Page A21



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

**3300** Page A25



**3320** Page A26



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**3381** Page A27



## modular banjo fittings

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**3527** parallel Page A17



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**3524** parallel Page A17



## self-sealing fittings

**3391** parallel Page A28



**3091** taper Page A28



**3160** plug-in Page A28



## accessories

**0178/0179** parallel Page A30



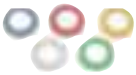
**0222** parallel Page A30



**clip** Page A30



**3110** Page A31



**3000 70** Page A31



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## carstick cartridges

**3100** Page A32/A33



## quick fitting

**3081** Page A37



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**3088** Page A37



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## 3 mm threaded fittings

### stud fittings

**3281** metric Page A39



**3299** metric Page A39



**3229** metric Page A39



**3298** metric Page A39



**3293** metric Page A39



**3218** metric Page A39



### tube to tube fittings

**3206** metric Page A40



**3202** metric Page A40



**3204** metric Page A40



**3266** metric Page A40

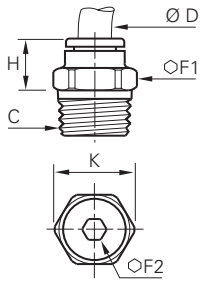


**3226** metric Page A40

## 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 |

**the "plus" of legris.com**



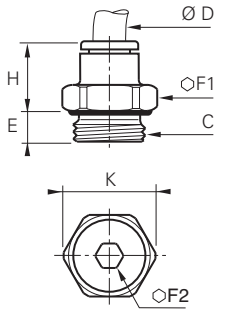
Download **CAD drawings** of all **LF 3000**® models from the online catalogue of legris.com. Formats (2D and 3D) are compatible with principal worldwide CAD platforms. A **free service** accessible to everyone.

**www.legris.com**

## 3101 male stud fittings, hexagonal, BSPP and metric thread



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

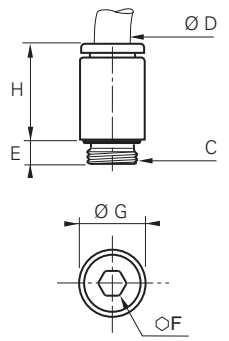



| Ø D | C | | E | F1 | F2 | H | K | kg |
|---|---|---|---|---|---|---|---|---|
| 3 | M3x0,5 | 3101 03 09 | 2,5 | 8 | - | 12,5 | 8,5 | 0,003 |
| 3 | M5x0,8 | 3101 03 19 | 3 | 8 | 2,5 | 12,5 | 8,5 | 0,003 |
| 4 | M3x0,5 | 3101 04 09 | 2,5 | 8 | - | 14,5 | 8,5 | 0,003 |
| 4 | M5x0,8 | 3101 04 19 | 3 | 8 | 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

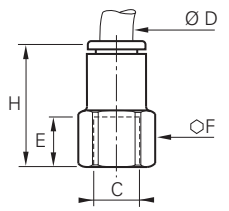



| Ø D | C | | E | F | G | H | kg |
|---|---|---|---|---|---|---|---|
| 4 | M7x1 | 3181 04 55 | 5 | 3 | 10 | 14 | 0,005 |
| 6 | M5 | 3181 06 19 | 3,5 | 2,5 | 10 | 16 | 0,006 |
| 6 | M7x1 | 3181 06 55 | 5 | 3 | 10 | 16 | 0,006 |

## 3114 female stud fitting BSPP and M5 thread

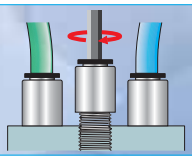


nickel-plated brass




| 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 |

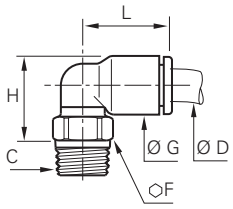
The internal hexagon and circular external shape ensure that models 3181 provide highly compact assembly. By using an Allen key, they can be installed in close proximity without the need to use a spanner.



## 3109 male stud elbow, BSPT thread



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



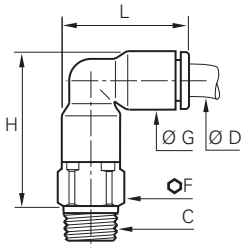

*the body is orientable for positioning purposes*

| 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

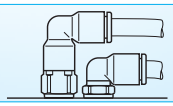


**plastic glass renforced, nickel-plated brass stud, pre-coated thread**




*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 |

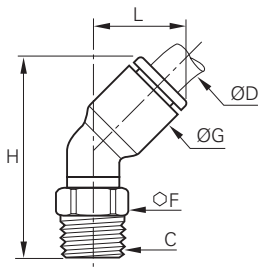


3129 is designed to allow overlap assembly with 3109 male stud elbow.

## 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.

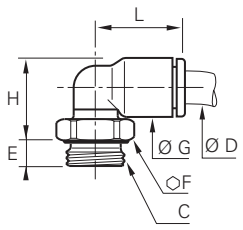
Legris offers a solution for all tubing configurations.



## 3199 male stud elbow, BSPP and metric thread



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



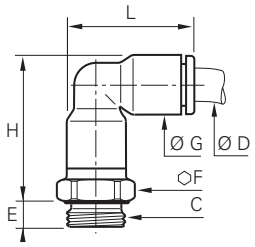

*the body is orientable for positioning purposes*

| 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**



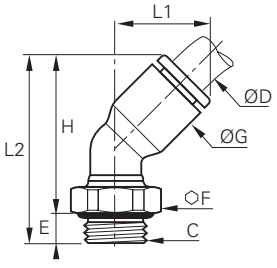

*the body is orientable for positioning purposes*

| 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**



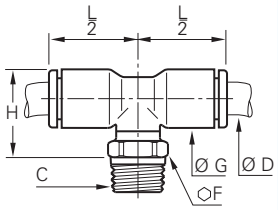

*the body is orientable for positioning purposes*

| 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**



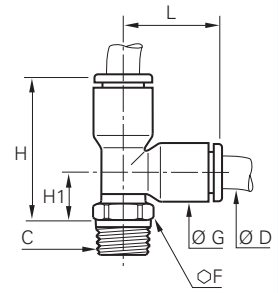

*the body is orientable for positioning purposes*

| 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**



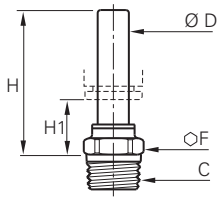

*the body is orientable for positioning purposes*

| 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

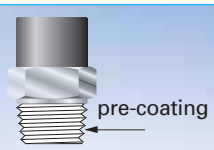


**nylon probe, nickel-plated brass stud end with pre-coated thread**




| 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

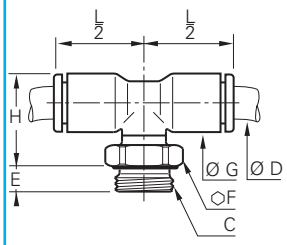



All **taper threaded** LF 3000® male fittings are supplied with a **pre-coated thread** for immediate installation and re-use.

## 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*

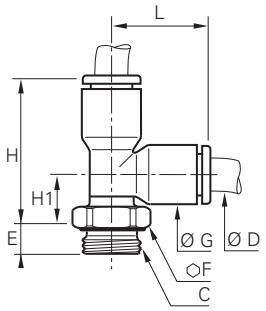
| Ø D | C | | E | F | G | H | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5X0,8 | 3198 04 19 | 3,5 | 8 | 8,5 | 17,5 | 14 | 0,004 |
| 4 | G1/8 | 3198 04 10 | 5 | 13 | 8,5 | 15 | 14 | 0,008 |
| 4 | G1/4 | 3198 04 13 | 5,5 | 16 | 8,5 | 15 | 14 | 0,013 |
| 6 | M5X0,8 | 3198 06 19 | 3,5 | 8 | 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**



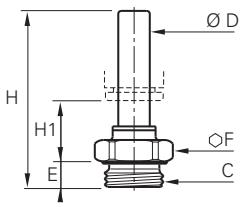

*the body is orientable for positioning purposes*

| 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**

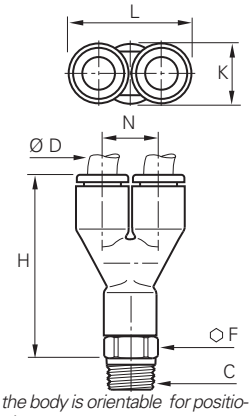



| Ø D | C | | E | F | H | H1 | kg |
|---|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 3131 04 19 | 3,5 | 8 | 31 | 16 | 0,002 |
| 4 | G1/8 | 3131 04 10 | 5 | 13 | 30 | 13,5 | 0,006 |
| 4 | G1/4 | 3131 04 13 | 5,5 | 16 | 31 | 13,5 | 0,011 |
| 6 | G1/8 | 3131 06 10 | 5 | 13 | 32 | 13,5 | 0,006 |
| 6 | G1/4 | 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**



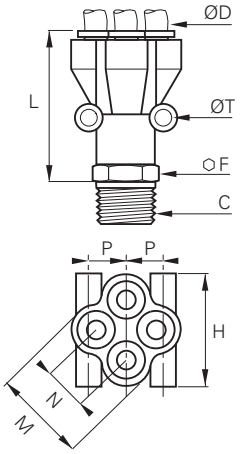

*the body is orientable for positioning purposes*

| 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**

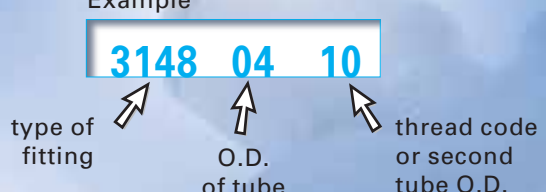



| Ø D | C | | F | H | L | M | N | P | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 3112 04 10 | 13 | 25,5 | 35,5 | 21 | 10 | 8,5 | 3,7 | 0,033 |
| 4 | R1/4 | 3112 04 13 | 14 | 25,5 | 34 | 21 | 10 | 8,5 | 3,7 | 0,046 |
| 6 | R1/8 | 3112 06 10 | 19 | 31,5 | 87,5 | 26,5 | 12 | 10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

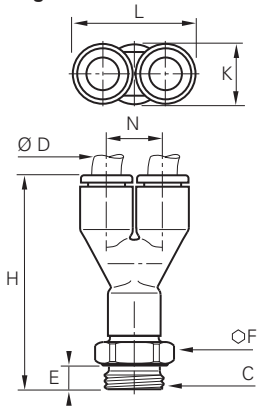
Example



## 3158 «Y» piece, BSPP thread



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



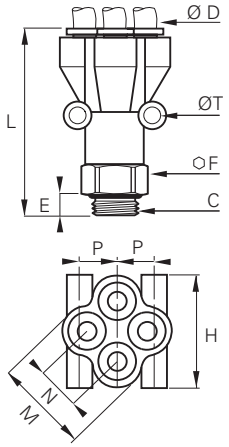

*The body is orientable for positioning purposes*

| 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**

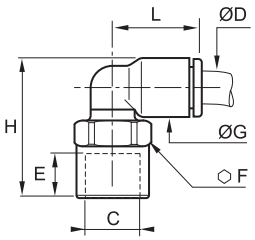



| Ø D | C | | E | F | H | L | M | N | P | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 3132 04 10 | 5 | 13 | 25,5 | 41 | 21 | 10 | 8,5 | 3,7 | 0,039 |
| 4 | G1/4 | 3132 04 13 | 5,5 | 16 | 25,5 | 40 | 21 | 10 | 8,5 | 3,7 | 0,046 |
| 6 | G1/8 | 3132 06 10 | 5 | 19 | 31,5 | 52,5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

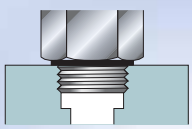


**plastic body, nickel-plated brass female stud**




*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 |





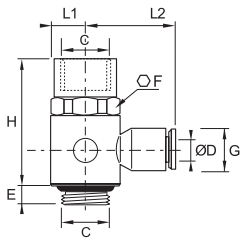
All LF 3000® fittings with male **BSPP and metric threads** are supplied complete with **an integral 'O' ring seal.** This permits instant assembly of the fitting, without preparation of the thread, and provides a uniform assembled height to the fitting.

# 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 |

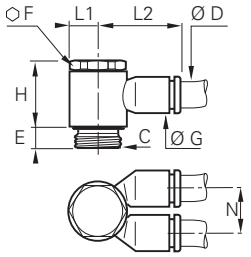
This is a useful component allowing :

- 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*

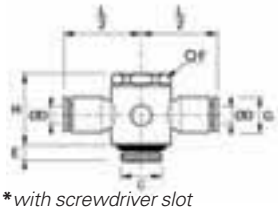
| Ø D | C | | E | F | G | H | L1 | L2 | N | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 3149 04 19* | 4 | - | 8,5 | 13 | 4,5 | 16 | 9 | 0,008 |
| 4 | G1/8 | 3149 04 10 | 4 | 13 | 10,5 | 16,5 | 7 | 18,5 | 11,5 | 0,013 |
| 6 | G1/8 | 3149 06 10 | 4 | 13 | 10,5 | 16,5 | 7 | 18,5 | 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*

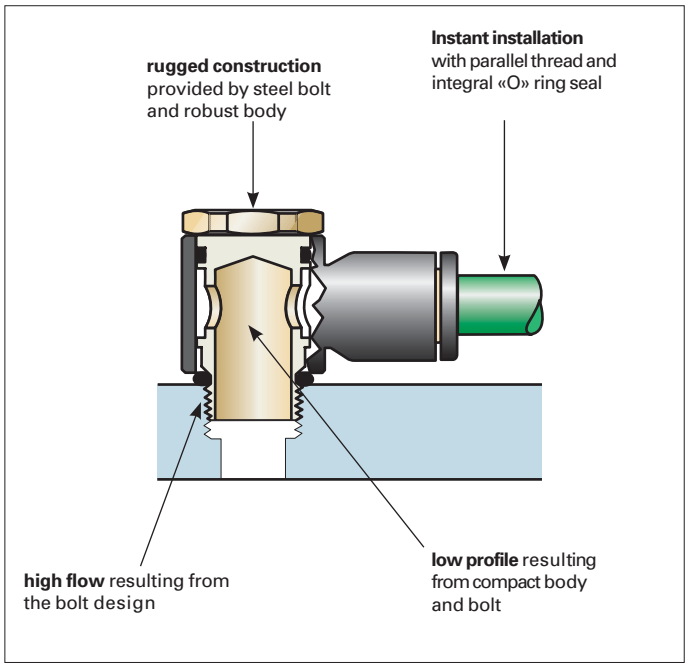
| Ø D | C | | E | F | G | H | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 3119 04 19* | 4 | - | 8,5 | 13 | 16 | 0,005 |
| 4 | G1/8 | 3119 04 10 | 4 | 13 | 11 | 17 | 20 | 0,021 |
| 6 | G1/8 | 3119 06 10 | 4 | 13 | 11 | 17 | 20 | 0,024 |
| 6 | G1/4 | 3119 06 13 | 5,5 | 17 | 13,5 | 21 | 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.

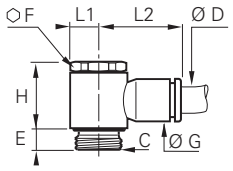
### Maximum tightening torque for 3118 range

| 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**



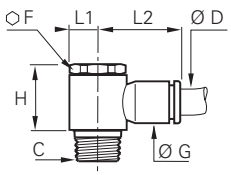

**with screwdriver slot for ease of assembly*

| 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

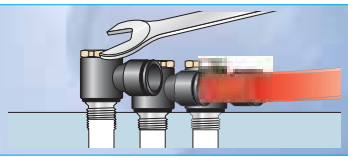


**plastic body, nickel-plated brass bolt with precoated thread**

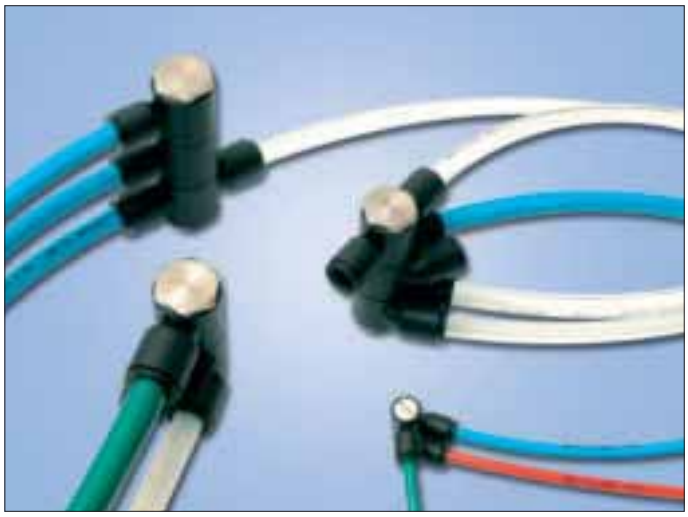



| Ø D | C | | F | G | H | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 3018 04 10 | 13 | 8,5 | 18,5 | 7 | 18,5 | 0,010 |
| 6 | R1/8 | 3018 06 10 | 13 | 10,5 | 18,5 | 7 | 20 | 0,011 |
| 6 | R1/4 | 3018 06 13 | 17 | 10,5 | 22,5 | 9,5 | 22 | 0,015 |
| 8 | R1/8 | 3018 08 10 | 13 | 13,5 | 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

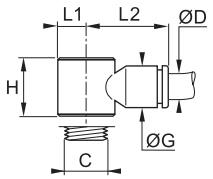


By stacking 2 and 3 compact bodies on top of each other using one bolt, a wide range of permutations of fittings, modules and manifolds can be constructed. Between 2 to 6 outlets in one modular construction are possible; the tube diameters may be different or the same, thus offering wide flexibility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

## 3538 single banjo bodies



**plastic body**



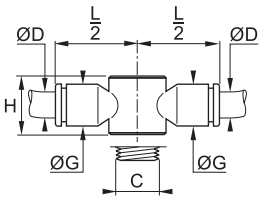

** brass body*

| 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**

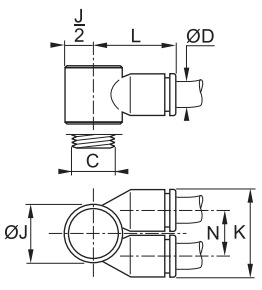



| ØD | C | | G | H | L/2 | kg |
|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 3539 04 19 | 8,5 | 13 | 16 | 0,007 |
| 4 | G1/8 | 3539 04 10 | 10,5 | 14,35 | 20 | 0,008 |
| 6 | G1/8 | 3539 06 10 | 10,5 | 14,35 | 20 | 0,011 |
| 6 | G1/4 | 3539 06 13 | 13,5 | 18 | 26 | 0,012 |
| 8 | G1/4 | 3539 08 13 | 13,5 | 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 |

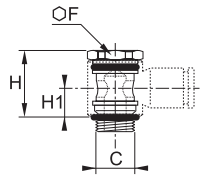
This model allows two outlets to be on the same side and to run parallel to each other.

# 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*

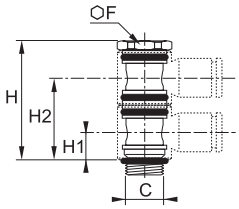
| C | | F | H | H1 | kg |
|---|---|---|---|---|---|
| M5x0,8 | 3527 00 19* | | 17 | 7,5 | 0,003 |
| G1/8 | 3527 00 10 | 13 | 17 | 7,5 | 0,014 |
| G1/4 | 3527 00 13 | 17 | 21 | 9,5 | 0,024 |
| G3/8 | 3527 00 17 | 20 | 24,5 | 11 | 0,038 |
| G1/2 | 3527 00 21 | 25 | 27,5 | 11,5 | 0,050 |

**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 |

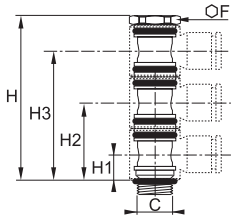
**with screwdriver slot for ease of assembly*

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 |

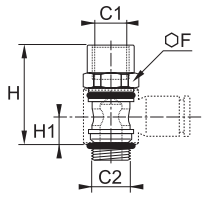
**with screwdriver slot for ease of assembly*

Designed for use with 3 banjo bodies

## 3524 female threaded banjo bolts, BSPP and M5 thread



'O' ring seal, nickel-plated brass stud

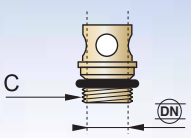



*full flow*

| 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

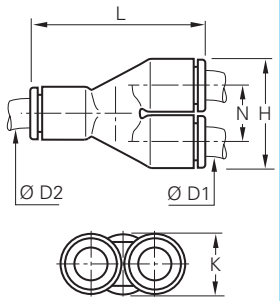



| C | M5x0,8 | G1/8 | G1/4 | G3/8 | G1/2 |
|---|---|---|---|---|---|
| DN | 2,5 | 5,5 | 8,5 | 11 | 13 |

## 3140 single «Y» piece - equal and unequal



plastic body

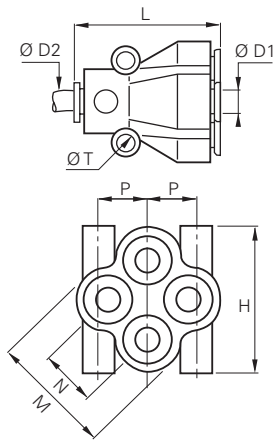



| ØD1 | ØD2 | | H | K | L | N | kg |
|---|---|---|---|---|---|---|---|
| 4 | 4 | 3140 04 00 | 17,5 | 8,5 | 28,5 | 9 | 0,003 |
| 6 | 6 | 3140 06 00 | 21,5 | 10,5 | 35 | 11 | 0,005 |
| 8 | 8 | 3140 08 00 | 28 | 13,5 | 45 | 14,5 | 0,009 |
| 10 | 10 | 3140 10 00 | 33 | 16 | 53 | 17 | 0,015 |
| 12 | 12 | 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

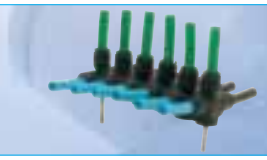


plastic body




| 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 |

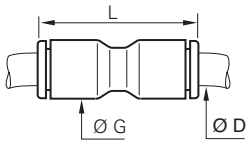
LF 3000® tube to tube fittings can be fitted in multiple strips by the use of Legris tube clips – please refer to page A30.



## 3106 equal tube/tube connector



plastic body

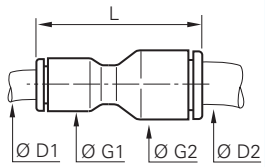



| ØD | | G | L | kg |
|---|---|---|---|---|
| 3 | 3106 03 00 | 8,5 | 25 | 0,002 |
| 4 | 3106 04 00 | 8,5 | 25 | 0,001 |
| 6 | 3106 06 00 | 10,5 | 28,5 | 0,003 |
| 8 | 3106 08 00 | 13,5 | 38 | 0,006 |
| 10 | 3106 10 00 | 16 | 42 | 0,006 |
| 12 | 3106 12 00 | 19 | 50,5 | 0,009 |
| 14 | 3106 14 00 | 22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

## 3106 unequal tube/tube connector



plastic body

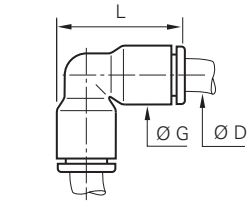



| ØD1 | ØD2 | | G1 | G2 | L | kg |
|---|---|---|---|---|---|---|
| 3 | 4 | 3106 03 04 | 8,5 | 8,5 | 25 | 0,002 |
| 4 | 6 | 3106 04 06 | 8,5 | 11 | 28 | 0,002 |
| 4 | 8 | 3106 04 08 | 13,5 | 13,5 | 38 | 0,006 |
| 6 | 8 | 3106 06 08 | 13,5 | 13,5 | 38 | 0,009 |
| 6 | 10 | 3106 06 10 | 16 | 16 | 42 | 0,009 |
| 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

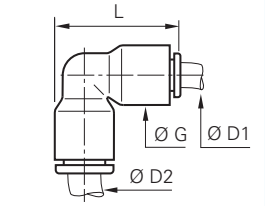



| ØD | | G | L | kg |
|---|---|---|---|---|
| 4 | 3102 04 00 | 8,5 | 19 | 0,002 |
| 6 | 3102 06 00 | 10,5 | 22,5 | 0,004 |
| 8 | 3102 08 00 | 13,5 | 29,5 | 0,004 |
| 10 | 3102 10 00 | 16 | 34,5 | 0,009 |
| 12 | 3102 12 00 | 19 | 40,5 | 0,016 |
| 14 | 3102 14 00 | 22 | 46,5 | 0,023 |

## 3102 unequal elbow



plastic body

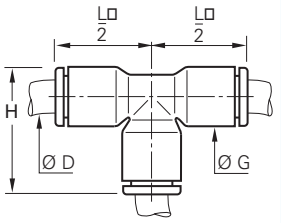



| ØD1 | ØD2 | | G | L | kg |
|---|---|---|---|---|---|
| 4 | 6 | 3102 04 06 | 10,5 | 22,5 | 0,002 |
| 6 | 8 | 3102 06 08 | 13,5 | 29,5 | 0,009 |
| 8 | 10 | 3102 08 10 | 16 | 34,5 | 0,031 |
| 10 | 12 | 3102 10 12 | 19 | 40,5 | 0,022 |

## 3104 equal tee



plastic body

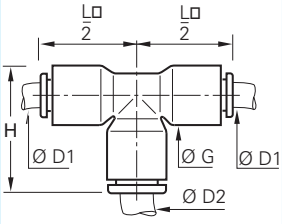



| ØD | | G | H | L/2 | kg |
|---|---|---|---|---|---|
| 3 | 3104 03 00 | 8,5 | 19 | 14,5 | 0,004 |
| 4 | 3104 04 00 | 8,5 | 19 | 14,5 | 0,004 |
| 6 | 3104 06 00 | 10,5 | 22,5 | 17,5 | 0,006 |
| 8 | 3104 08 00 | 13,5 | 29,5 | 23 | 0,006 |
| 10 | 3104 10 00 | 16 | 34,5 | 26,5 | 0,015 |
| 12 | 3104 12 00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

## 3104 unequal tee



plastic body



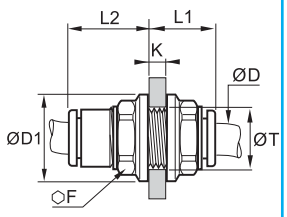

| ØD1 | ØD2 | | G | H | L/2 | kg |
|---|---|---|---|---|---|---|
| 4 | 6 | 3104 04 06 | 10,5 | 22,5 | 17,5 | 0,007 |
| 6 | 4 | 3104 06 04 | 10,5 | 22,5 | 17,5 | 0,006 |
| 6 | 8 | 3104 06 08 | 13,5 | 29,5 | 23 | 0,015 |
| 8 | 6 | 3104 08 06 | 13,5 | 29,5 | 23 | 0,012 |
| 8 | 10 | 3104 08 10 | 16 | 34,5 | 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**

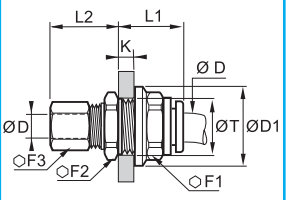



| ØD | ØD1 | | F | K maxi | L1 | L2 | T mini | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 16 | 3116 04 00 | 13 | 5,5 | 15 | 10 | 10,5 | 0,018 |
| 6 | 18 | 3116 06 00 | 15 | 8,5 | 18 | 10,5 | 12,5 | 0,029 |
| 8 | 21,5 | 3116 08 00 | 18 | 14,5 | 25 | 13,5 | 15,5 | 0,037 |
| 10 | 26 | 3116 10 00 | 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**

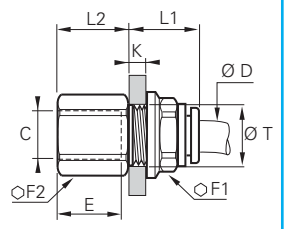



| ØD | ØD1 | | F1 | F2 | F3 | K maxi | L1 | L2 | T mini | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 16 | 3146 04 00 | 13 | 13 | 10 | 7 | 17,5 | 17,5 | 10,5 | 0,021 |
| 6 | 18 | 3146 06 00 | 15 | 17 | 13 | 8 | 19 | 18 | 12,5 | 0,030 |
| 8 | 21,5 | 3146 08 00 | 18 | 19 | 14 | 8 | 20,5 | 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**

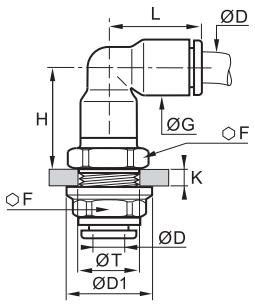



| ØD | C | | E | F1 | F2 | K maxi | L1 | L2 | T mini | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 3136 04 10 | 9,5 | 13 | 13 | 7 | 17 | 11,5 | 10,5 | 0,025 |
| 4 | G1/4 | 3136 04 13 | 13,5 | 13 | 16 | 7 | 17 | 15,5 | 10,5 | 0,028 |
| 6 | G1/8 | 3136 06 10 | 9,5 | 15 | 15 | 8 | 19 | 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



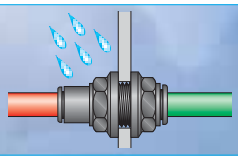
**plastic body, nickel-plated thread**




*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 |

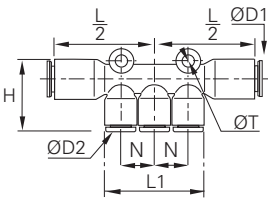
All plastic nuts are fitted with an integral O-ring to optimise sealing to a bulkhead wall.



## 3304 unequal multiple tee, with fixing holes



plastic body



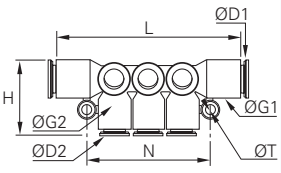

| ØD1 | ØD2 | | H | L1 | L/2 | N | T | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | 4 | 3304 06 04 | 24,5 | 23 | 37 | 11,5 | 4,2 | 0,023 |
| 8 | 4 | 3304 08 04 | 24,5 | 23 | 37 | 11,5 | 4,2 | 0,031 |
| 8 | 6 | 3304 08 06 | 24,5 | 23 | 37 | 11,5 | 4,2 | 0,033 |
| 10 | 6 | 3304 10 06 | 36 | 29 | 40,5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



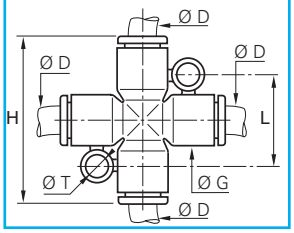

| ØD1 | ØD2 | | G1 | G2 | H | L | N | T | kg |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 4 | 3306 06 04 | 13,5 | 11 | 25 | 72 | 43 | 4,2 | 0,018 |
| 8 | 4 | 3306 08 04 | 13,5 | 11 | 25 | 73 | 43 | 4,2 | 0,032 |
| 8 | 6 | 3306 08 06 | 13,5 | 11 | 25 | 73 | 43 | 4,2 | 0,022 |
| 10 | 6 | 3306 10 06 | 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

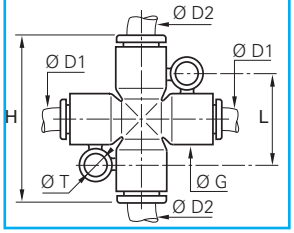



| ØD | | G | H | L | T | kg |
|---|---|---|---|---|---|---|
| 4 | 3107 04 00 | 11 | 36 | 20 | 4,2 | 0,010 |
| 6 | 3107 06 00 | 11 | 36 | 20 | 4,2 | 0,010 |
| 8 | 3107 08 00 | 13,5 | 46 | 22,5 | 4,2 | 0,020 |

## 3107 unequal cross, with fixing holes

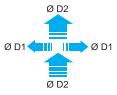


plastic body




| 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 |

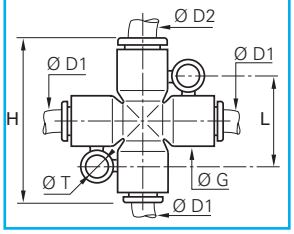
This model provides 2 outlets ØD1 of equal diameters and 2 outlets ØD2 of a different diameter. ØT = i.d. of fixing hole




## 3107 unequal cross, with fixing holes

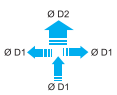


plastic body




| 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 |

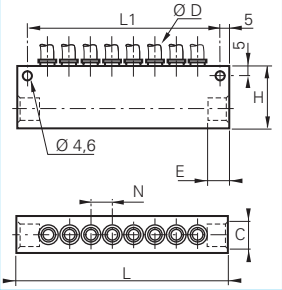
This model provides 3 outlets ØD1 of equal diameters and 1 outlet ØD2 of a different diameter. ØT = i.d. of fixing hole




## 3310 manifold with LF 3000® push-in connection



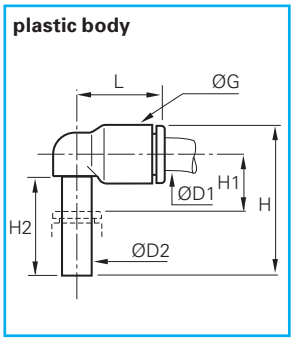
anodized aluminium




| 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

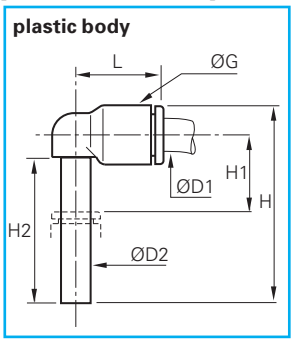





| ØD1 | ØD2 | | G | H | H1 | H2 | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 3182 04 00 | 8,5 | 23 | 6 | 15,5 | 14 | 0,003 |
| 6 | 6 | 3182 06 00 | 10,5 | 26,5 | 7 | 17 | 16 | 0,003 |
| 8 | 8 | 3182 08 00 | 13,5 | 33,5 | 8 | 21,5 | 23 | 0,004 |
| 10 | 10 | 3182 10 00 | 16 | 39 | 9,5 | 24,5 | 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

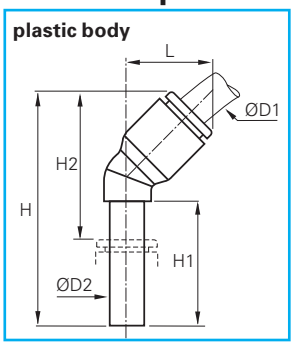





| ØD1 | ØD2 | | G | H | H1 | H2 | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 3184 04 00 | 8,5 | 32,5 | 15,5 | 25 | 14 | 0,005 |
| 6 | 6 | 3184 06 00 | 10,5 | 38,5 | 19 | 29 | 16 | 0,005 |
| 8 | 8 | 3184 08 00 | 13,5 | 49 | 23,5 | 37 | 23 | 0,006 |
| 10 | 10 | 3184 10 00 | 16 | 56 | 26,5 | 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

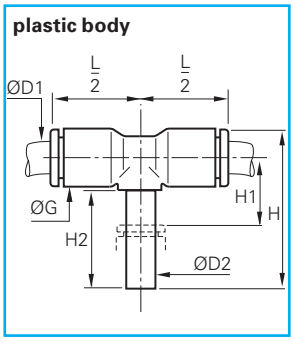





| ØD1 | ØD2 | | G | H | H1 | H2 | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 3180 04 00 | 9 | 33,5 | 19 | 21 | 13 | 0,005 |
| 6 | 6 | 3180 06 00 | 11 | 39 | 21 | 25 | 14,5 | 0,005 |
| 8 | 8 | 3180 08 00 | 13,5 | 44 | 21,5 | 25,5 | 19,5 | 0,006 |
| 10 | 10 | 3180 10 00 | 16 | 53 | 27 | 32,5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

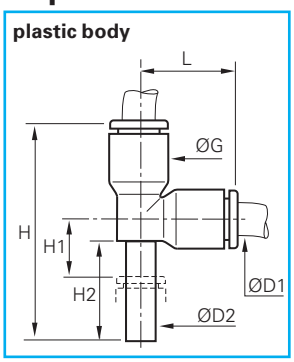





| ØD1 | ØD2 | | G | H | H1 | H2 | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 3188 04 00 | 8,5 | 23 | 6 | 15,5 | 14,5 | 0,005 |
| 6 | 6 | 3188 06 00 | 10,5 | 26,5 | 7 | 17 | 16 | 0,006 |
| 8 | 8 | 3188 08 00 | 13,5 | 33,5 | 8 | 21,5 | 23 | 0,008 |
| 10 | 10 | 3188 10 00 | 16 | 39 | 9,5 | 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



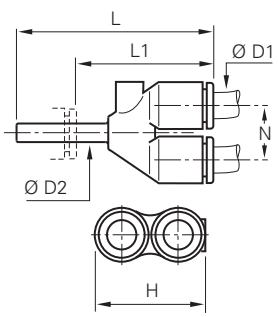



| ØD1 | ØD2 | | G | H | H1 | H2 | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 3183 04 00 | 8,5 | 33 | 6 | 15,5 | 14,5 | 0,005 |
| 6 | 6 | 3183 06 00 | 10,5 | 38,5 | 7 | 17 | 17,5 | 0,006 |
| 8 | 8 | 3183 08 00 | 13,5 | 49 | 8 | 21,5 | 23 | 0,008 |
| 10 | 10 | 3183 10 00 | 16 | 57 | 10,5 | 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



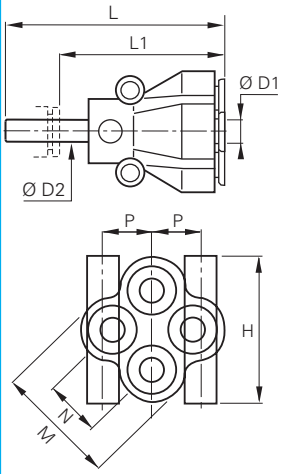

| ØD1 | ØD2 | | H | L | L1 | N | kg |
|---|---|---|---|---|---|---|---|
| 4 | 4 | 3142 04 00 | 17,5 | 34 | 21,5 | 9 | 0,005 |
| 6 | 6 | 3142 06 00 | 21,5 | 39,5 | 25,5 | 11 | 0,008 |
| 8 | 8 | 3142 08 00 | 28 | 50,5 | 32 | 14,5 | 0,014 |
| 10 | 10 | 3142 10 00 | 33 | 57,5 | 36 | 17 | 0,021 |
| 12 | 12 | 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



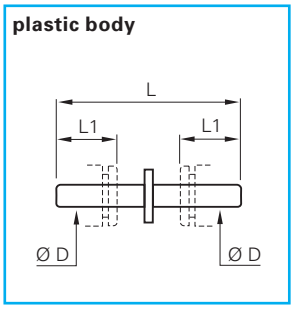

| ØD1 | ØD2 | | H | L | L1 | M | N | P | kg |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 6 | 3143 04 06 | 26 | 46 | 35,5 | 21,5 | 11 | 8,5 | 0,027 |
| 4 | 8 | 3143 04 08 | 26 | 51 | 32 | 21,5 | 11 | 8,5 | 0,026 |
| 6 | 8 | 3143 06 08 | 31,5 | 57,5 | 39 | 26,5 | 12 | 10 | 0,040 |

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.

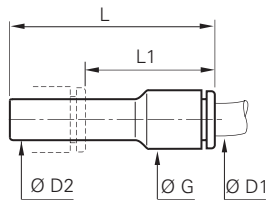


# plug-in fittings and accessories

## 3166 reducer



**plastic**

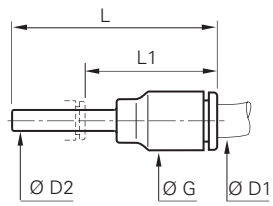



| ØD1 | ØD2 | | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| 3 | 4 | 3166 03 04 | 8,5 | 37,5 | 23,5 | 0,004 |
| 4 | 6 | 3166 04 06 | 8,5 | 37,5 | 23,5 | 0,004 |
| 4 | 8 | 3166 04 08 | 8,5 | 37,5 | 19 | 0,004 |
| 4 | 10 | 3166 04 10 | 12 | 44 | 22,5 | 0,005 |
| 6 | 8 | 3166 06 08 | 10,5 | 37,5 | 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**



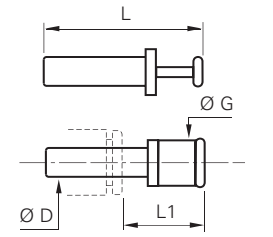

| ØD1 | ØD2 | | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| 4 | 1/8 | 3168 04 53 | 10 | 40 | 29 | 0,002 |
| 6 | 4 | 3168 06 04 | 10,5 | 35 | 23 | 0,003 |
| 8 | 6 | 3168 08 06 | 13,5 | 45 | 31,5 | 0,005 |
| 8 | 1/4 | 3168 08 56 | 10 | 39,5 | 29 | 0,008 |
| 10 | 8 | 3168 10 08 | 16 | 42,5 | 21 |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

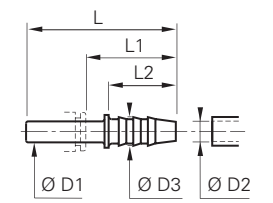



| Ø D | | G | L | L1 | kg |
|---|---|---|---|---|---|
| 3 | 3126 03 00 | 6 | 25 | 13,5 | 0,001 |
| 4 | 3126 04 00 | 4 | 30 | 15,5 | 0,001 |
| 6 | 3126 06 00 | 8 | 33 | 16,5 | 0,001 |
| 8 | 3126 08 00 | 10 | 35 | 17,5 | 0,002 |
| 10 | 3126 10 00 | 12 | 42 | 21 | 0,003 |
| 12 | 3126 12 00 | 14 | 45 | 22 | 0,004 |
| 14 | 3126 14 00 | 16 | 49 | 23,5 | 0,005 |

## 3122 barbed connector for unequal tube



**plastic**



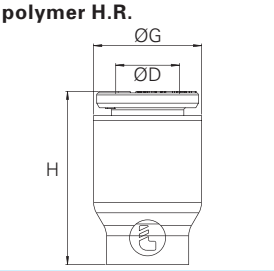

**nickel-plated brass*

| 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.**

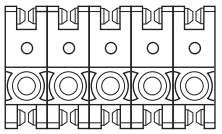



| ØD1 | | ØG | H | kg |
|---|---|---|---|---|
| 4 | 3151 04 00 | 8,5 | 14,7 | 0,001 |
| 6 | 3151 06 00 | 10,5 | 16,9 | 0,001 |
| 8 | 3151 08 00 | 13,5 | 21,9 | 0,002 |
| 10 | 3151 10 00 | 16 | 22,2 | 0,003 |
| 12 | 3151 12 00 | 19 | 27,7 | 0,006 |

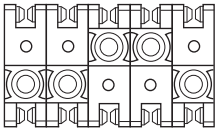
# modular plug-in connectors



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.



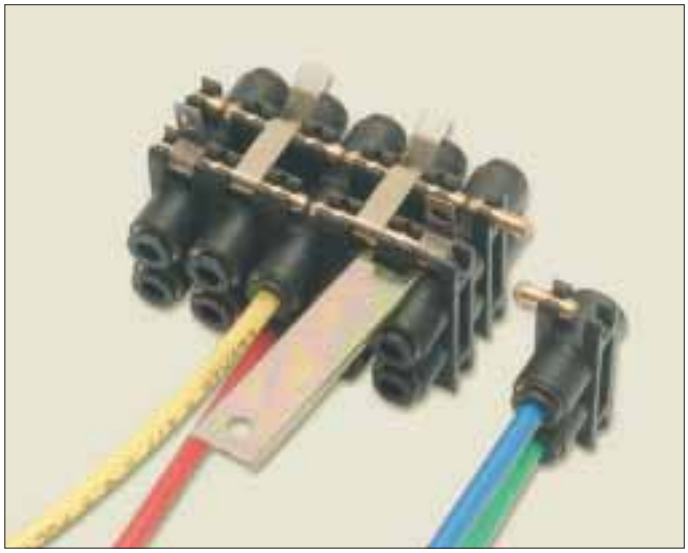
standard assembly



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

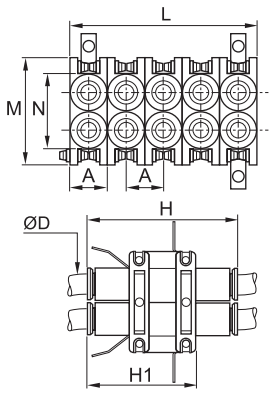
The module is constructed from a number of symmetrical components each of which must mate with another similar component in the other half of the coupling.
When fully assembled one box of the modular plug-in connector provides 20 x 4 mm tube connections.
10 in one half and 10 mating ones in the other.

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



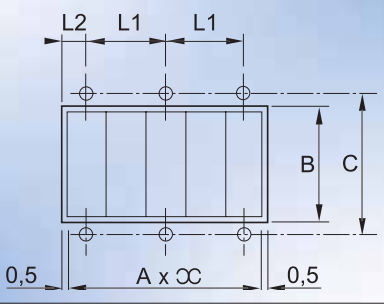
**plastic body**




*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



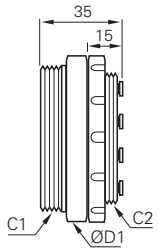
Legris multi-connectors are designed for simultaneous connection and disconnection of 2, 4, 7 and 12 tubes.
Its LF 3000® technology and performance makes it easy to use :
- instant connection and disconnection, without tools,
- full flow, without restriction.

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**



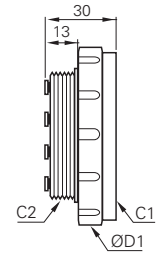

| o.d. tube | number of outlets | | C1 | C2 | ØD1 |
|---|---|---|---|---|---|
| 4 | 2 | 3320 04 00 02 | M38x1,5 | M32x1,5 | 42 |
| 4 | 4 | 3320 04 00 04 | M46x1,5 | M40x1,5 | 50 |
| 4 | 7 | 3320 04 00 07 | M46x1,5 | M40x1,5 | 50 |
| 4 | 12 | 3320 04 00 12 | M65x1,5 | M58x1,5 | 70 |
| 6 | 2 | 3320 06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



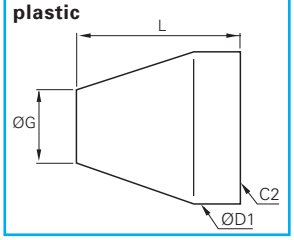

| o.d. tube | number of outlets | | C1 | C2 | ØD1 |
|---|---|---|---|---|---|
| 4 | 2 | 3321 04 00 02 | M38x1,5 | M32x1,5 | 45 |
| 4 | 4 | 3321 04 00 04 | M46x1,5 | M40x1,5 | 55 |
| 4 | 7 | 3321 04 00 07 | M46x1,5 | M40x1,5 | 55 |
| 4 | 12 | 3321 04 00 12 | M65x1,5 | M58x1,5 | 75 |
| 6 | 2 | 3321 06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

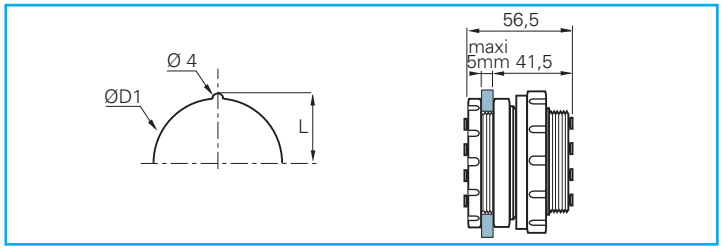


**plastic**




| 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 |

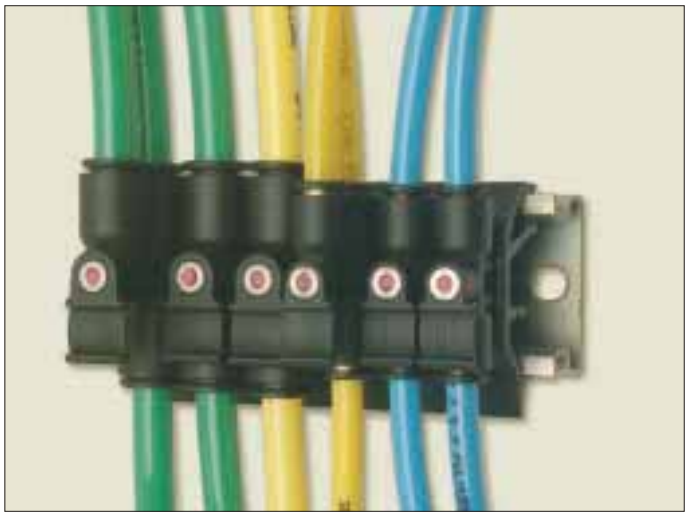
## overall dimensions for bulkhead mounting




| 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.

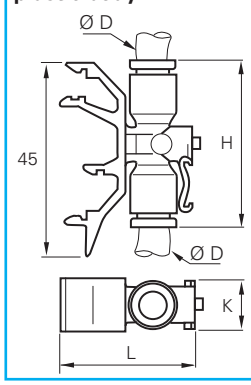
### Test point facility

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



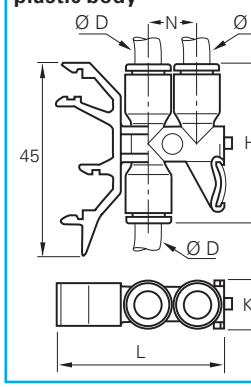

| ØD | | H | K | L | kg |
|---|---|---|---|---|---|
| 4 | 3379 04 00 | 36,5 | 12 | 30 | 0,020 |
| 6 | 3379 06 00 | 36,5 | 12 | 30 | 0,026 |
| 8 | 3379 08 00 | 46 | 13 | 32,5 | 0,034 |

Fixed by clipping to DIN rail

## 3381 connector for 3 tubes



plastic body

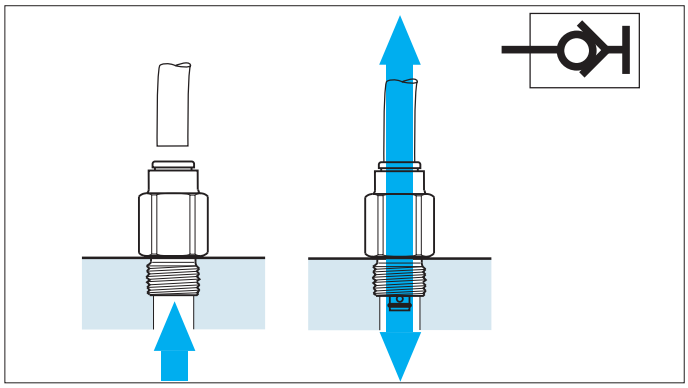



| ØD | | H | K | L | N | kg |
|---|---|---|---|---|---|---|
| 4 | 3381 04 00 | 36,5 | 11 | 39,5 | 11,5 | 0,027 |
| 6 | 3381 06 00 | 36,5 | 11 | 39,5 | 11,5 | 0,033 |
| 8 | 3381 08 00 | 46 | 13 | 44,5 | 14,5 | 0,043 |

Fixed by clipping to DIN rail

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

# self-sealing fittings



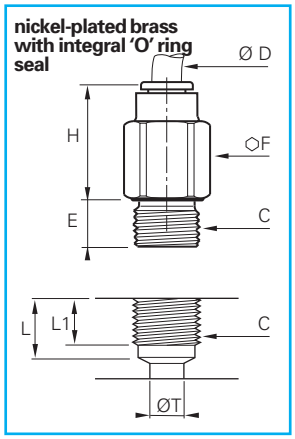
**Legris self-sealing fittings** enable circuits and machinery to stay under pressure when being checked and maintained. The working process is simple :

- 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

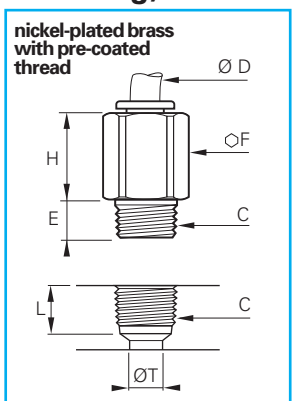
| Ø D | C | L | L1 | ØT |
|---|---|---|---|---|
| 4 | G1/8 | 7,5 | 6 | 5 |
| 6 | G1/8 | 9 | 6 | 7,5 |
| 8 | G1/8 | 10 | 6 | 7,5 |
| 8 | G1/4 | 11 | 8 | 9 |
| 10 | G3/8 | 13 | 11 | 10 |

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

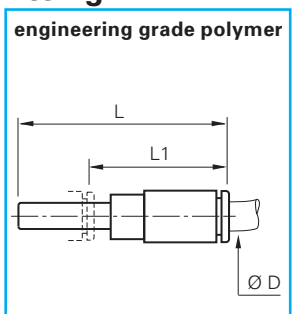
| Ø D | C | L | ØT |
|---|---|---|---|
| 4 | R1/8 | 9,5 | 5 |
| 6 | R1/8 | 9,5 | 7,5 |
| 8 | R1/8 | 10,5 | 7,5 |
| 8 | R1/4 | 13,5 | 9 |
| 10 | R3/8 | 14 | 10 |

maximum working pressure = 10 bar

## 3160 self-sealing plug-in fitting



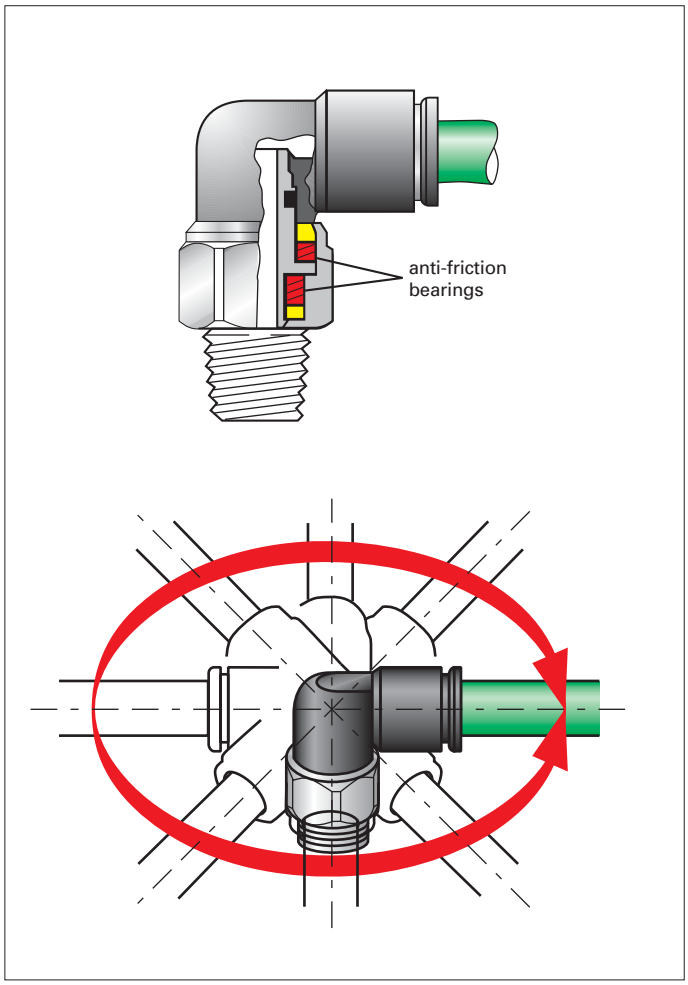
engineering grade polymer




| 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

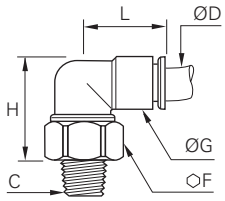
The values in this table are at 6 bar pressure and 20°C.

| 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**

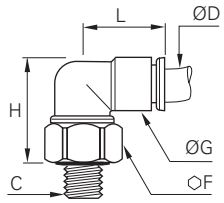



| ØD | C | | F | G | H | L | kg |
|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 3159 04 10 | 12 | 11 | 22 | 17,5 | 0,014 |
| 6 | R1/8 | 3159 06 10 | 14 | 14 | 26,5 | 20,5 | 0,020 |
| 6 | R1/4 | 3159 06 13 | 14 | 14 | 23,5 | 20,5 | 0,022 |
| 8 | R1/8 | 3159 08 10 | 17 | 16 | 32 | 23,5 | 0,034 |
| 8 | 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 |

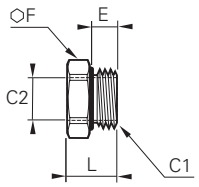
length of parallel thread (E) for 3189

| 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

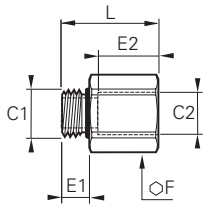



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| M7x1 | M5x0,8 | 0178 55 19 | 5 | 10 | 12 | 0,004 |
| G1/8 | M5x0,8 | 0178 10 19 | 5 | 13 | 9 | 0,005 |
| G1/4 | G1/8 | 0178 13 10 | 5,5 | 16 | 9,5 | 0,006 |
| G3/8 | G1/8 | 0178 17 10 | 5,5 | 20 | 10,5 | 0,016 |
| G3/8 | G1/4 | 0178 17 13 | 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

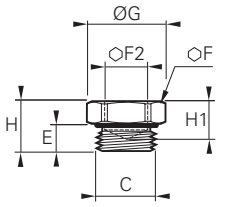



| C1 | C2 | | E1 | E2 | F | L | kg |
|---|---|---|---|---|---|---|---|
| M12x1,5 | G1/4 | 0179 67 13 | 6,5 | 8 | 16 | 18 | 0,005 |
| G1/8 | G1/4 | 0179 10 13 | 5 | 12 | 16 | 19 | 0,005 |
| G1/4 | G3/8 | 0179 13 17 | 5,5 | 15 | 20 | 23 | 0,006 |
| G3/8 | G1/2 | 0179 17 21 | 5,5 | 16 | 24 | 24 | 0,016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

## 0222 threaded plug, BSPP and metric thread



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

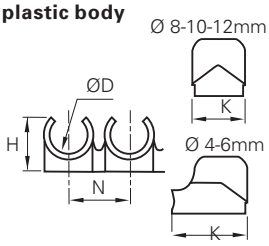



| C | | E | F | G | F2 | H | H1 | kg |
|---|---|---|---|---|---|---|---|---|
| M5x0,8 | 0222 19 00 | 3,5 | 8 | 9 | 2,5 | 7,1 | 4,1 | 0,004 |
| M7x1 | 0222 55 00 | 5 | 10 | 11 | 3 | 8,5 | 4,7 | 0,005 |
| G1/8 | 0222 10 00 | 5 | 13 | 14 | 5 | 8,6 | 6,4 | 0,005 |
| G1/4 | 0222 13 00 | 5,5 | 16 | 17,5 | 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 |

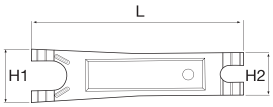


**LF 3000® third generation fittings** are supplied fitted with fixed black manual release buttons. Coloured release button covers help the **identification** of circuits.
Simply cover the black release button with a button of another colour.
**5 colours** are available, as above, and allow colour coding 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

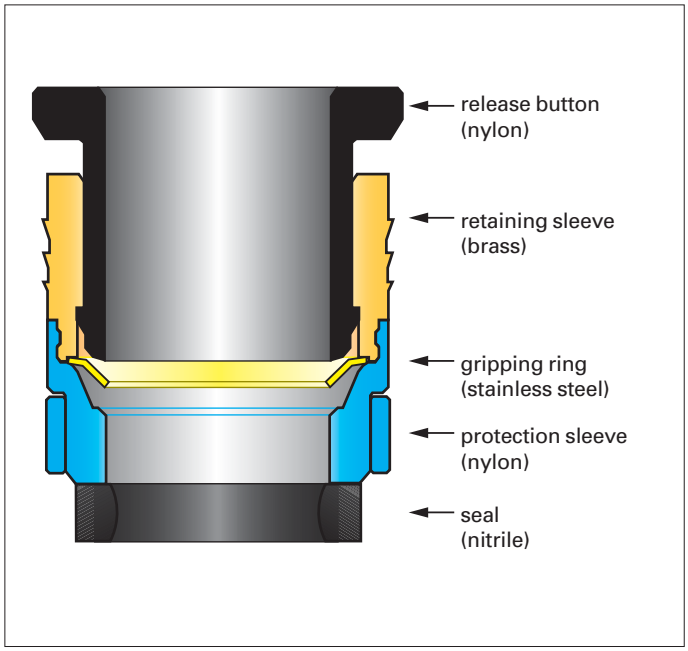


The Carstick® concept combines LF 3000® one-piece cartridges with a specially designed protection and dispensing sleeve.
Ideal for continuous processes in large quantities, it provides a high performance solution for automatic, semi automatic and manual assembly equipment for pneumatic components.

**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**

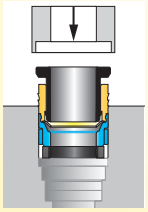
## working specifications




**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)**

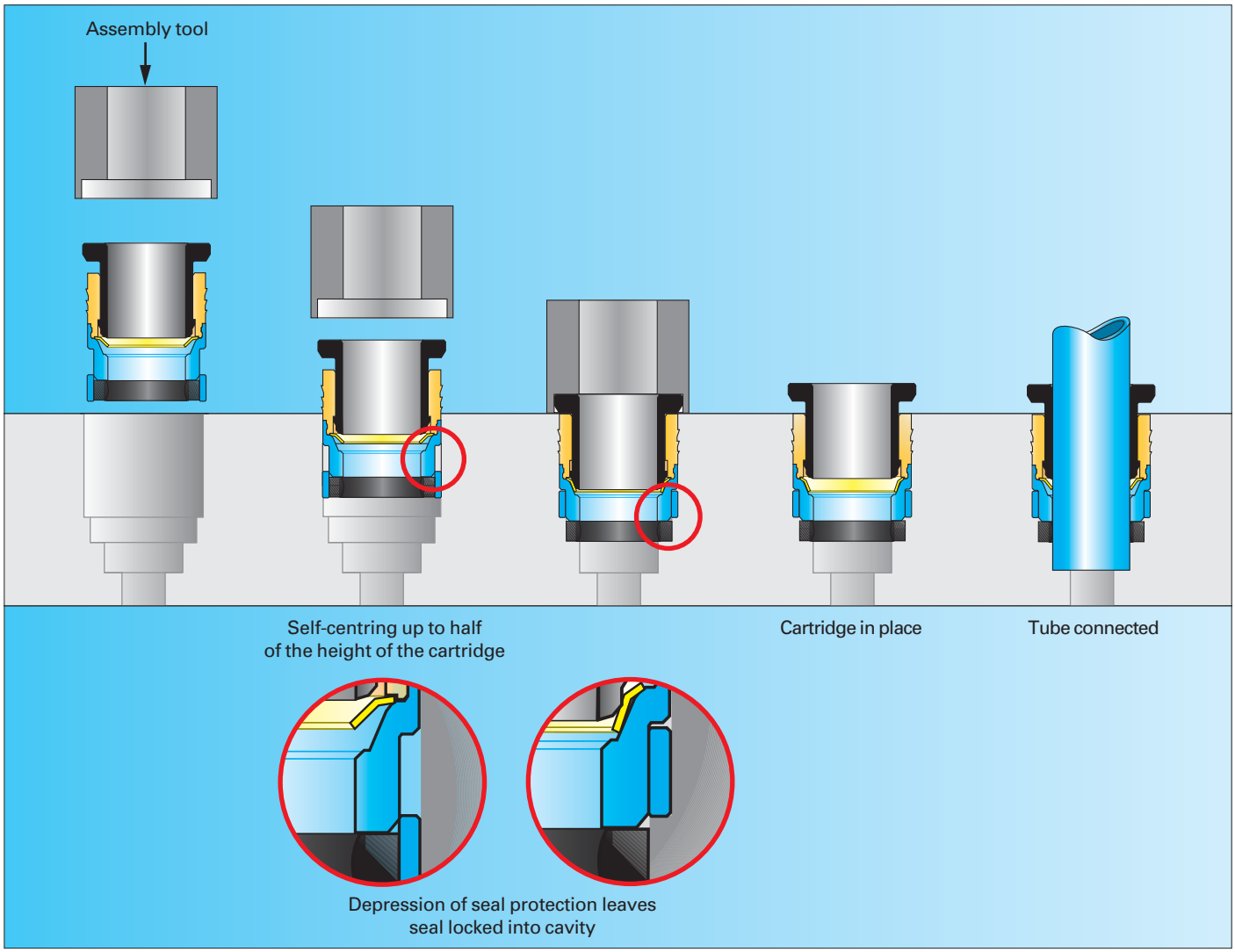


| tube Ø | nylon cavity | aluminium cavity | brass cavity |
|---|---|---|---|
| 4 mm | 300 daN | 300 daN | 300 daN |
| 6 mm | 300 daN | 300 daN | 300 daN |
| 8 mm | 300 daN | 350 daN | 300 daN |
| 10 mm | 300 daN | 300 daN | 300 daN |
| 12 mm | 400 daN | 400 daN | 400 daN |

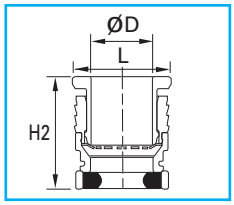
Legris can also provide alternative designs such as :
- other types of seal (EPDM, FKM...)
- other materials (stainless steel sleeve...)

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

# carstick®: assembly

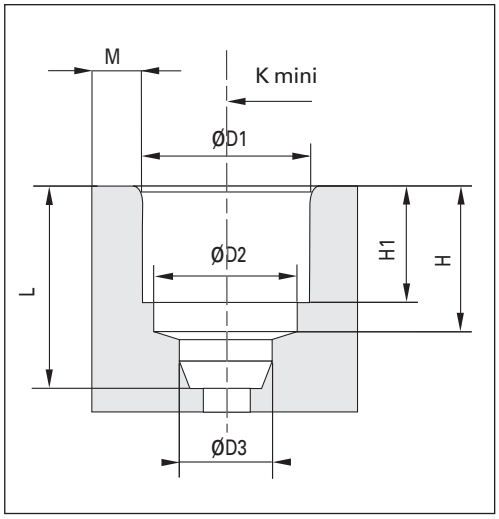



## cartridge




| 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

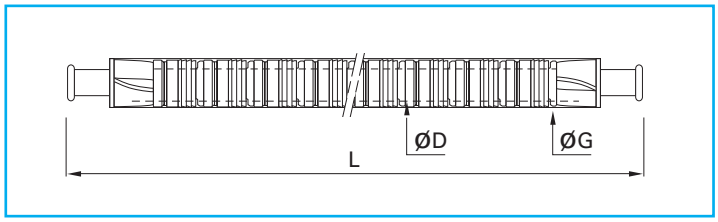



| ØD | ØD3 | H | H1 | L |
|---|---|---|---|---|
| 4 | 4,1 | 8,15 | 6 | 10 |
| 6 | 6,1 | 9,65 | 7,5 | 12 |
| 8 | 8,15 | 12,45 | 9,9 | 15,5 |
| 10 | 10,15 | 14,35 | 11,7 | 19 |
| 12 | 12,17 | 16,75 | 13,9 | 22 |

| | 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

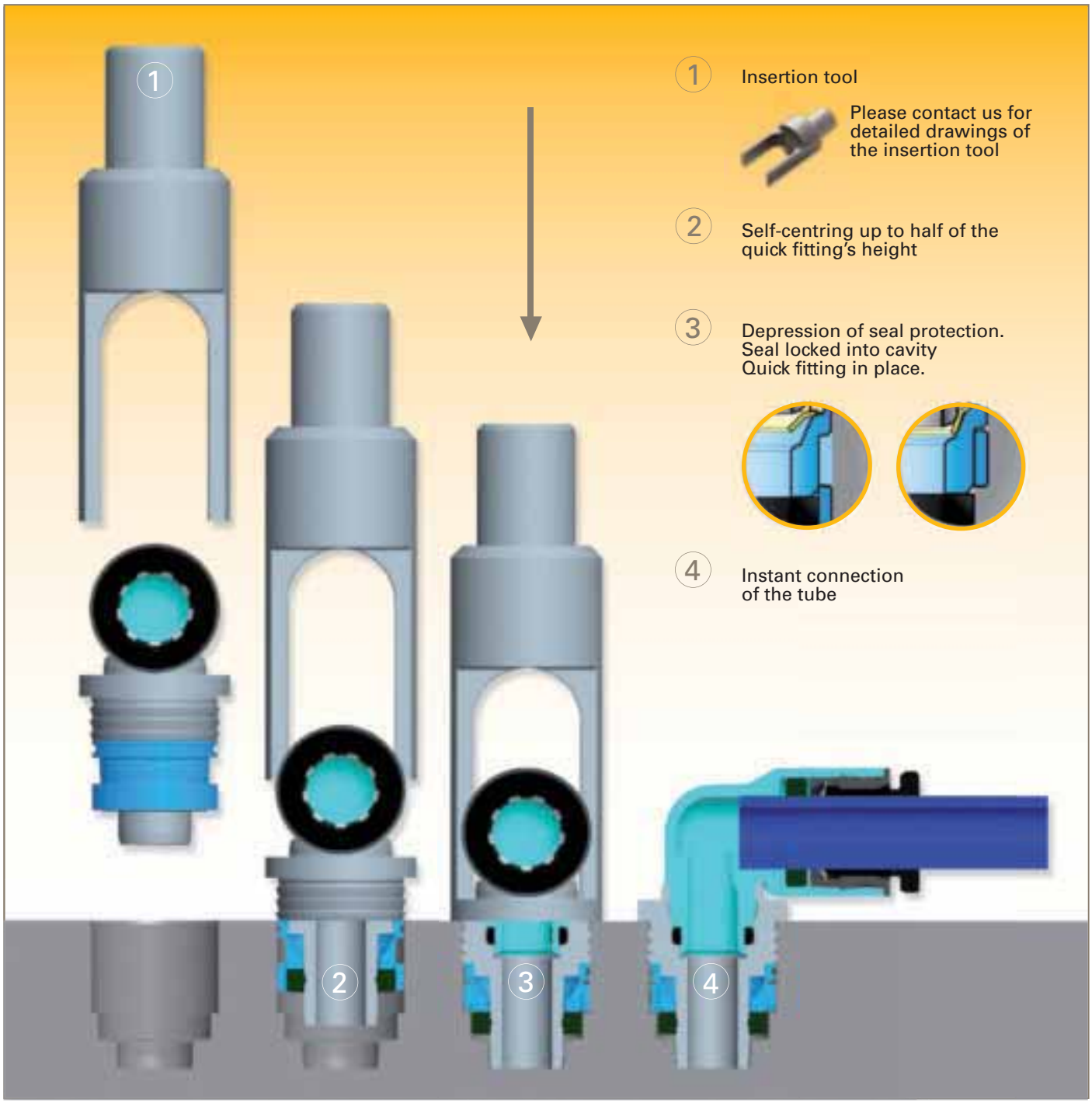



| | |
|---|---|
| **Working Fluid** | Compressed air |
| **Working Pressure** | 0 to 20 bar |
| **Working Temperature** | -20° to +80°C |
| **Vacuum** | 99% (750 mm Hg) |

**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

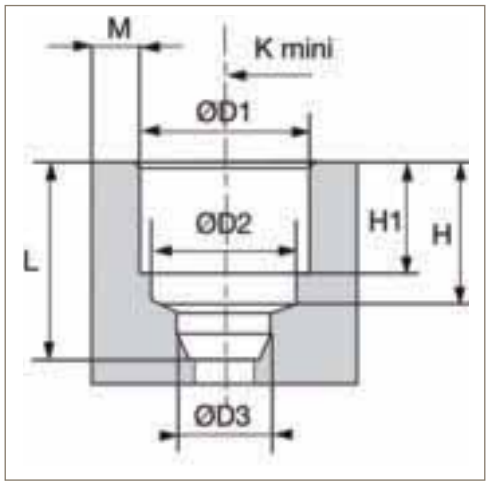
## Assembly Steps :



# 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)

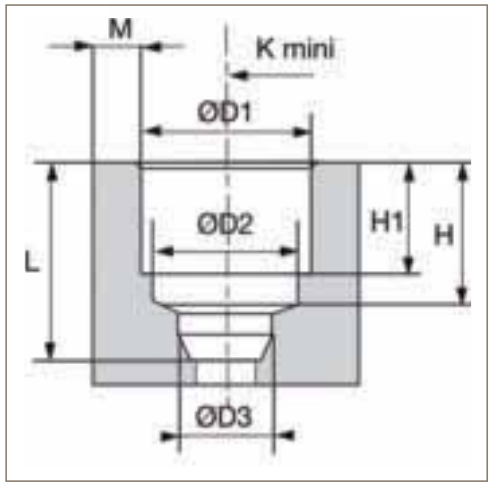
| Cavity | ØD1 | ØD2 | ØD3 | H | H1 | K mini | L | M |
|---|---|---|---|---|---|---|---|---|
| 4 | 8,3 | 7,05 | 4,1 | 8,15 | 6 | 12,3 | 10 | 1,5 |
| 6 | 10,3 | 9,1 | 6,1 | 9,65 | 7,5 | 12,3 | 12 | 2 |
| 8 | 12,25 | 10,85 | 8,15 | 12,45 | 9,9 | 15,2 | 15,5 | 2 |
| 10 | 15,08 | 13,2 | 10,15 | 14,35 | 11,7 | 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)

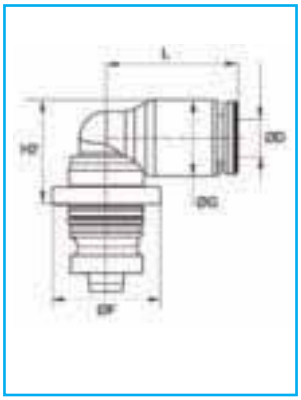
| Cavity | Tube | ØD1 | ØD2 | ØD3 | H | H1 | K mini | L | M |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 8,3 | 7,05 | 4,1 | 8,15 | 6 | 12,3 | 10 | 1,5 |
| 6 | 4 | 10,3 | 9,1 | 6,1 | 9,65 | 7,5 | 12,3 | 12 | 2 |
| 6 | 6 | 10,3 | 9,1 | 6,1 | 9,65 | 7,5 | 14,2 | 12 | 2 |
| 8 | 6 | 12,25 | 10,85 | 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



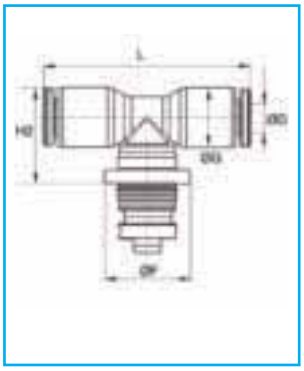


| ØD | | Cavity | F | G | H2 | L | kg |
|---|---|---|---|---|---|---|---|
| 4 | 3089 04 04 | 4 | 12,5 | 9 | 11,5 | 15 | 0,004 |
| 4 | 3089 04 06 | 6 | 12,5 | 9 | 10,5 | 15 | 0,005 |
| 6 | 3089 06 04 | 4 | 12,5 | 11 | 14 | 17 | 0,005 |
| 6 | 3089 06 06 | 6 | 12,5 | 11 | 12,5 | 17 | 0,006 |
| 6 | 3089 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



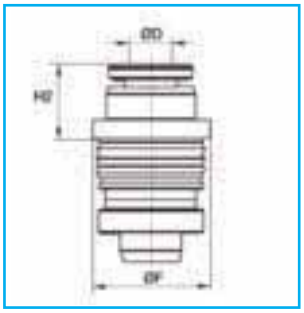


| ØD | | Cavity | F | G | H2 | L | kg |
|---|---|---|---|---|---|---|---|
| 4 | 3088 04 04 | 4 | 12,5 | 9 | 14 | 30 | 0,005 |
| 4 | 3088 04 06 | 6 | 12,5 | 8,6 | 12,5 | 29,5 | 0,006 |
| 6 | 3088 06 06 | 6 | 12,5 | 11 | 14,5 | 34 | 0,007 |
| 6 | 3088 06 08 | 8 | 14,5 | 10,6 | 14,7 | 33,5 | 0,011 |
| 8 | 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



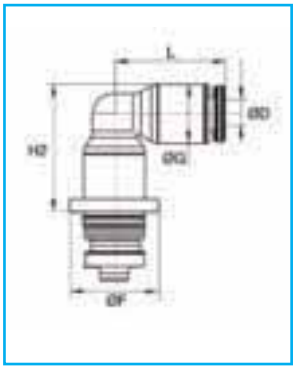


| ØD | | Cavity | F | H2 | kg |
|---|---|---|---|---|---|
| 4 | 3086 04 06 | 6 | 12,5 | 7 | 0,005 |
| 6 | 3086 06 08 | 8 | 14 | 7,5 | 0,008 |

Available upon request

## 3082 extended quick fitting



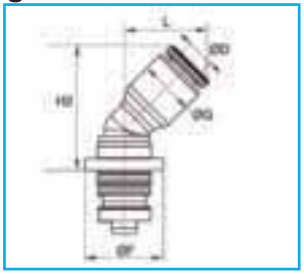


| ØD | | Cavity | F | G | H2 | L | kg |
|---|---|---|---|---|---|---|---|
| 4 | 3082 04 04 | 4 | 12,5 | 9 | 16 | 15 | 0,006 |
| 4 | 3082 04 06 | 6 | 12,5 | 9 | 15 | 15 | 0,009 |
| 6 | 3082 06 06 | 6 | 12,5 | 11 | 23,1 | 19 | 0,010 |
| 6 | 3082 06 08 | 8 | 14,2 | 10,5 | 29,2 | 18,5 | 0,014 |
| 8 | 3082 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**

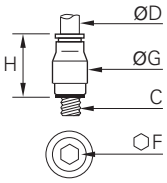
| | |
|---|---|
| **suitable fluids** | compressed air |
| **working pressure** | 18 bar maximum. The maximum pressure of the circuit depends on the type of tube used. |
| **working temperature** | from -15°C to +70°C.<br>The allowable working temperature depends on the type of tube used. |
| **materials** | **body** : nickel-plated brass<br>**internal seal** : nitrile 'O' ring<br>**thread seal** : fluoropolymer<br>**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

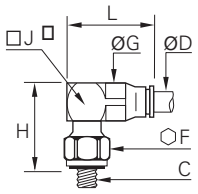



| ØD | C | | F | G | H | kg |
|---|---|---|---|---|---|---|
| 3 | M3x0,5 | 3281 03 09 | 1,5 | 6 | 9,5 | 0,001 |
| 3 | M5x0,8 | 3281 03 19 | 1,5 | 7,8 | 9,5 | 0,002 |

## 3299 compact male stud elbow, M3 and M5 thread



nickel-plated brass

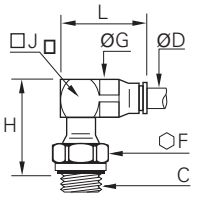



| ØD | C | | F | G | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 3 | M3x0,5 | 3299 03 09 | 6 | 6,2 | 13,5 | 6 | 13,5 | 0,003 |
| 3 | M5x0,8 | 3299 03 19 | 8 | 6,2 | 13 | 6 | 13,5 | 0,004 |

## 3229 extended male stud elbow, M3 and M5 thread



nickel-plated brass

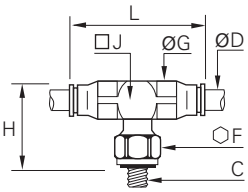



| ØD | C | | F | G | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 3 | M3x0,5 | 3229 03 09 | 6 | 6,2 | 16 | 6 | 13,5 | 0,001 |
| 3 | M5x0,8 | 3229 03 19 | 8 | 6,2 | 17 | 6 | 13,5 | 0,001 |

## 3298 male stud branch tee, M3 and M5 thread



nickel-plated brass

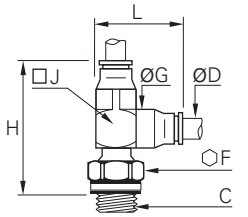



| ØD | C | | F | G | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 3 | M3x0,5 | 3298 03 09 | 6 | 6,2 | 13,5 | 6 | 20,5 | 0,004 |
| 3 | M5x0,8 | 3298 03 19 | 8 | 6,2 | 13 | 6 | 20,5 | 0,005 |

## 3293 male stud run tee, M3 and M5 thread



nickel-plated brass

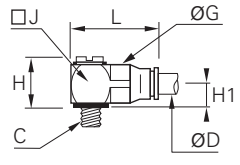



| ØD | C | | F | G | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 3 | M3x0,5 | 3293 03 09 | 6 | 6,2 | 20,5 | 6 | 13,5 | 0,004 |
| 3 | M5x0,8 | 3293 03 19 | 8 | 6,2 | 20 | 6 | 13,5 | 0,005 |

## 3218 single banjo, M3 and M5 thread



nickel-plated brass



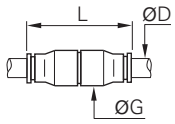

| ØD | C | | G | H | H1 | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 3 | M3x0,5 | 3218 03 09 | 6,2 | 9,5 | 4 | 6 | 12,5 | 0,002 |
| 3 | M5x0,8 | 3218 03 19 | 6,2 | 10,5 | 4,5 | 8 | 15 | 0,005 |

# tube-to-tube fittings

## 3206 equal tube/tube connector



nickel-plated brass

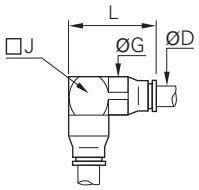



| ØD | | G | L | kg |
|---|---|---|---|---|
| 3 | 3206 03 00 | 6,2 | 17 | 0,002 |

## 3202 equal elbow



nickel-plated brass

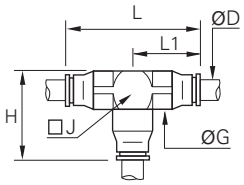



| ØD | | G | J | L | kg |
|---|---|---|---|---|---|
| 3 | 3202 03 00 | 6,2 | 6 | 13,5 | 0,003 |

## 3204 equal tee



nickel-plated brass

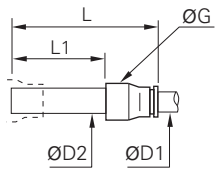



| ØD | | G | J | H | L | L1 | kg |
|---|---|---|---|---|---|---|---|
| 3 | 3204 03 00 | 6,2 | 6 | 13,5 | 20,5 | 10,5 | 0,004 |

## 3266 4 mm to 3 mm reducer



nickel-plated brass body, plastic stem

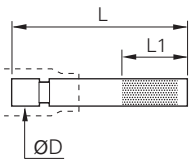



| ØD1 | ØD2 | | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| 3 | 4 | 3266 03 04 | 6,2 | 28 | 19 | 0,001 |

## 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.



legris
connectic



# 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



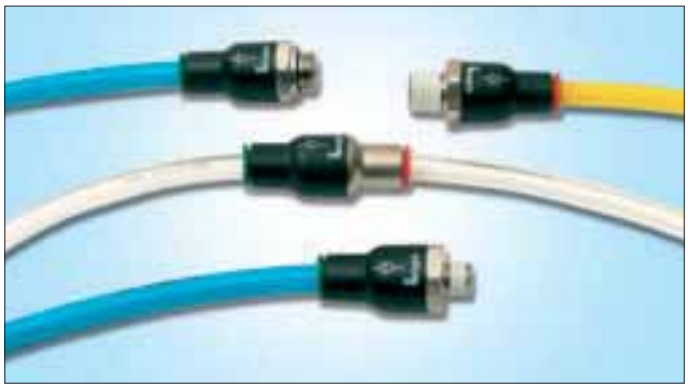
**Blocking fittings** lock a piston by simultaneously cutting off the supply and exhaust. Functional locks are more precise and rapid when blocking fittings are located on the cylinder: the volume of air between cylinder and valve no longer needs to be taken into consideration.

## 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



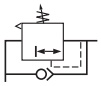
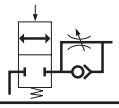
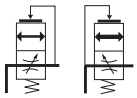
**Pressure regulator fittings** are used to stabilize, at a given value, the pressure applied to pneumatic equipment whatever the fluctuations of pressure upstream.

## reducing pressure supply

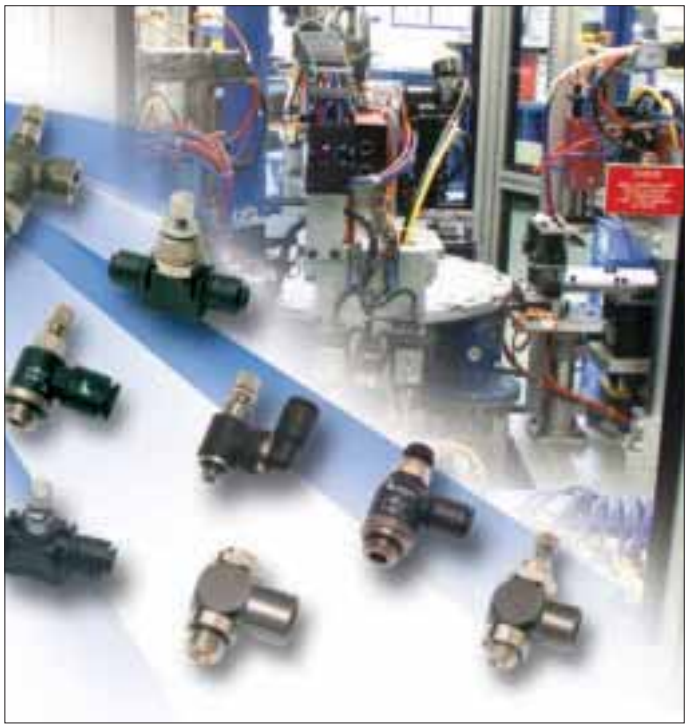


**Pressure reducer fittings** provide the cylinder with a circuit pressure reduced to a value determined by manual /visual adjustment.

## 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



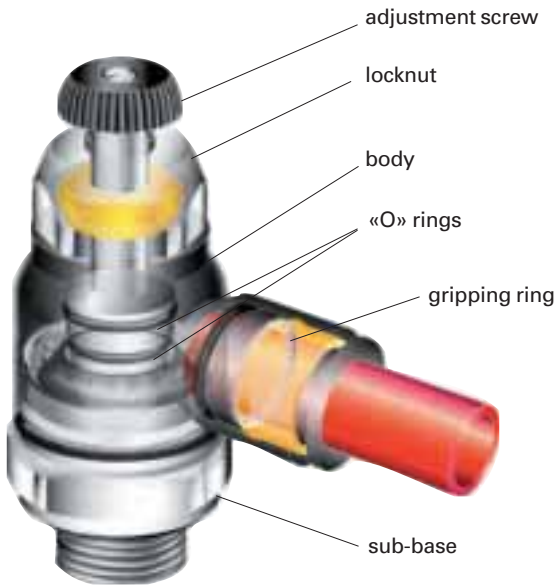
Legris **flow control regulators** control the speed of a pneumatic cylinder.
Depending upon the model, Legris flow regulators may be fitted to the cylinder or in the compressed air line. However, flow regulation (and therefore a cylinder displacement speed) is more **precise** and **constant** when 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<br>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<br>- polymer H.R.<br>- brass<br>**gripping ring :** stainless steel<br>**adjustment screw :** nickel-plated brass<br>**locking nut :** nickel-plated brass<br>**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 | | | | | | | |

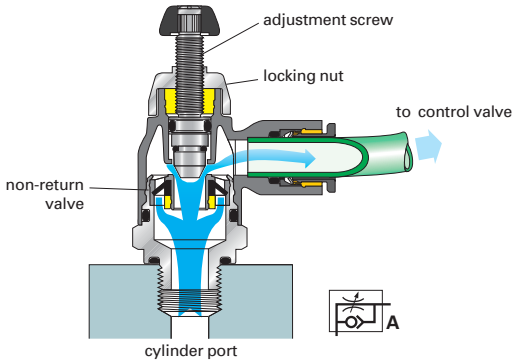
## principle of operation

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.

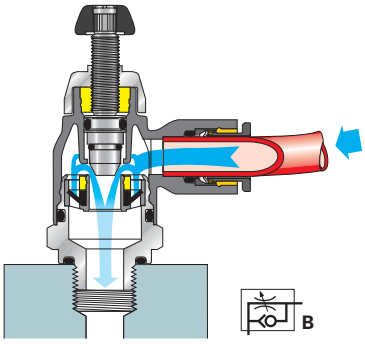
In a bi-directional version, both exhaust and supply flow are controlled.

## with external screw

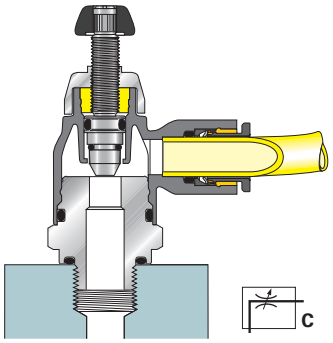
**one-way «exhaust»** version




**one-way «supply»** version

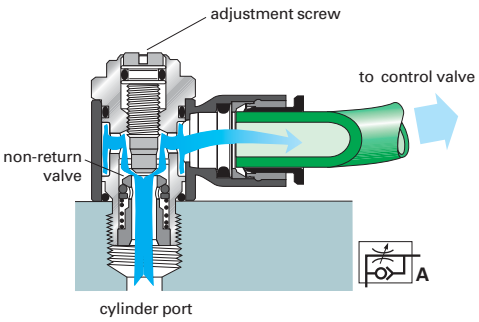



**bi-directional** version

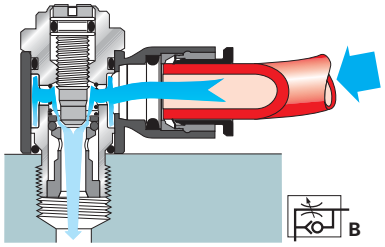



## with recessed screw

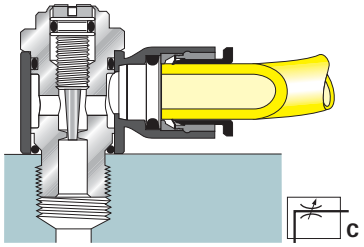
**one-way «exhaust»** version




**one-way «supply»** version

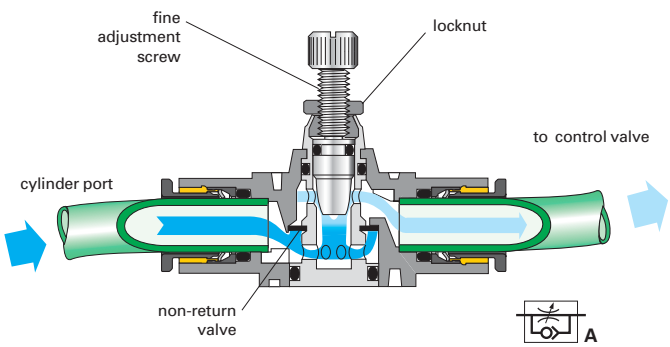



**bi-directional** version

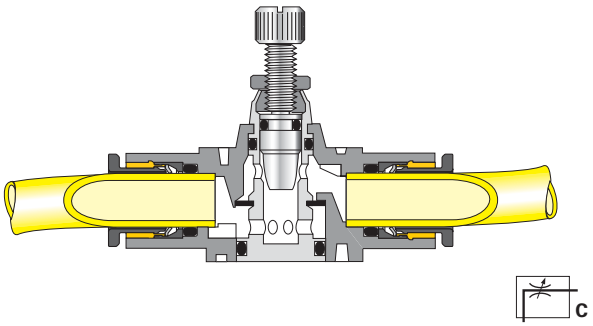



## in-line type

**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.

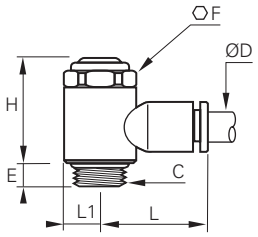
# flow control regulators – polymer version

## 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 | | |

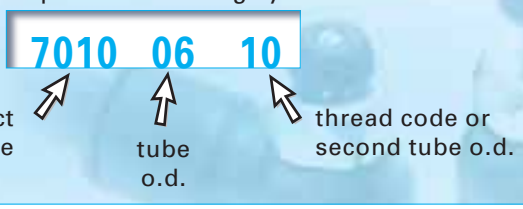
| maximum tightening torque of models with recessed screw | thread | M5 x0,8 | G1/8“ | G1/4“ | G3/8“ | G1/2“ |
|---|---|---|---|---|---|---|
| | da Nm | 0,1 | 0,4 | 0,5 | 0,6 | 0,7 |

| 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



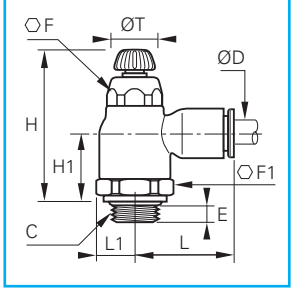
# flow control regulators – polymer version

## banjo with external screw, BSP parallel and metric

### 7060-7061-7062 «compact», BSP parallel



body – polymer H.R.



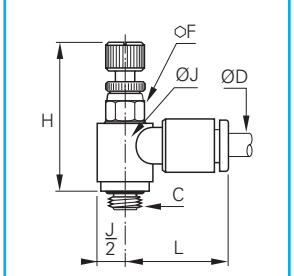

| ØD | C | exhaust (A) | supply (B) | bi-directional (C) |
|---|---|---|---|---|
| 4 | G1/8 | 7060 04 10 | 7061 04 10 | 7062 04 10 |
| 6 | G1/8 | 7060 06 10 | 7061 06 10 | 7062 06 10 |
| 6 | G1/4 | 7060 06 13 | 7061 06 13 | 7062 06 13 |
| 8 | G1/8 | 7060 08 10 | 7061 08 10 | 7062 08 10 |
| 8 | G1/4 |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


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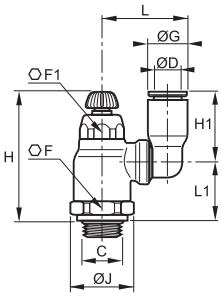
# flow control regulators – polymer version

## swivel outlet types, BSP parallel and metric

### 7040-7041 «compact», BSP parallel



body – polymer H.R.



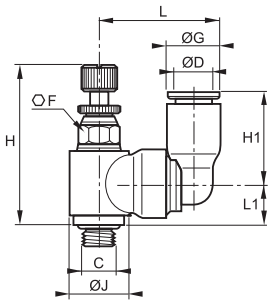

| ØD | C | exhaust (A) | supply (B) |
|---|---|---|---|
| 6 | G1/8 | 7040 06 10 | |
| 6 | G1/4 | 7040 06 13 | 7041 06 13 |
| 8 | G1/8 | 7040 08 10 | 7041 08 10 |
| 8 | G1/4 | 7040 08 13 | 7041 08 13 |
| 8 | G3/8 | 7040 08 17 | |
| 10 | G1/4 | 7040 10 13 | |
| 10 | G3/8 | 7040 10 17 | |
| 12 | G3/8 |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

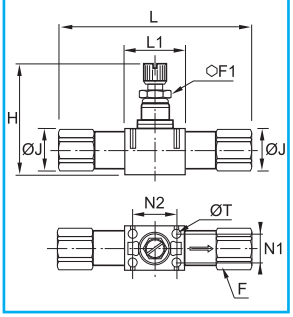
| ØD | C | F | ØG | H mini | H maxi | H1 | ØJ | L | L1 | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 6 | 8,5 | 24,5 | 27,5 | 14,5 | 9,5 | 19,5 | 6,5 | 0,011 |
| 4 | G1/8 | 7 | 8,5 | 27,5 | 31 | 14,5 | 11,5 | 20 | 8,5 | 0,015 |
| 6 | M5x0,8 | 6 | 10,5 | 24,5 | 27,5 | 16 | 9,5 | 21,5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

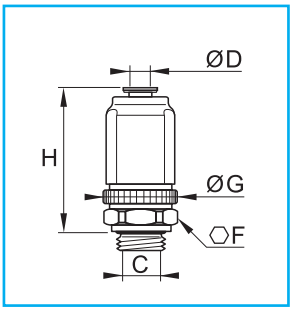



| C | exhaust (A) |
|---|---|
| G1/8 | 7771 10 10 |
| G1/4 | 7771 13 13 |
| G3/8 | 7771 17 17 |
| G1/2 | 7771 21 21 |

| 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 |

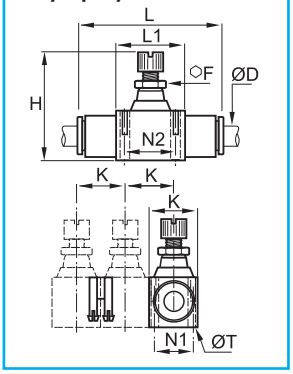
# flow control regulators – polymer version

## in-line types

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



body – polymer H.R.



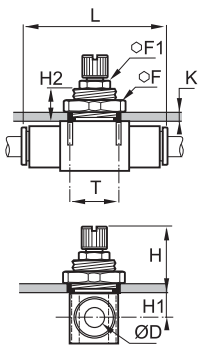

| ØD | exhaust (A) | bi-directional (C) |
|---|---|---|
| 4 | 7770 04 00 | 7772 04 00 |
| 6 | 7770 06 00 | 7772 06 00 |
| 8 | 7770 08 00 | 7772 08 00 |
| 10 | 7770 10 00 | |
| 12 | 7770 12 00 | |

| 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 |

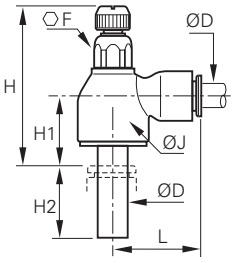
*ultrafine adjustment

## plug-in types

### 7030-7031 «plug-in», «compact»



body – polymer H.R.



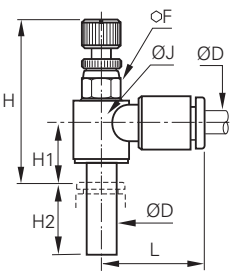

| ØD | exhaust (A) | supply (B) |
|---|---|---|
| 6 | 7030 06 00 | 7031 06 00 |
| 8 | 7030 08 00 | 7031 08 00 |
| 10 | 7030 10 00 | 7031 10 00 |
| 12 | 7030 12 00 | 7031 12 00 |

| 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 |

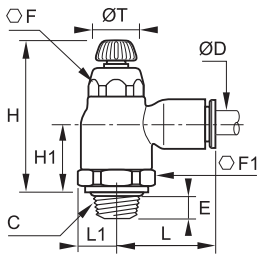
| ØD | F | H mini | H maxi | H1 | H2 | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 6 | 25,5 | 28 | 9,5 | 15,5 | 9 | 17 | 0,007 |
| 6 | 7 | 27,5 | 29 | 10,5 | 17 | 11,5 | 18,5 | 0,011 |

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

## 7065-7066-7067 «compact», BSP taper



body – polymer H.R.



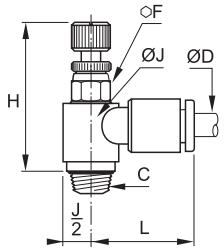

| ØD | C | exhaust (A) | supply (B) | bi-directional (C) |
|---|---|---|---|---|
| 4 | R1/8 | | | 7067 04 10 |
| 6 | R1/8 | 7065 06 10 | | 7067 06 10 |
| 6 | R1/4 | | | 7067 06 13 |
| 8 | R1/8 | 7065 08 10 | | 7067 08 10 |
| 8 | R1/4 | 7065 08 13 | | 7067 08 13 |
| 8 | R3/8 | | | 7067 08 17 |
| 10 |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

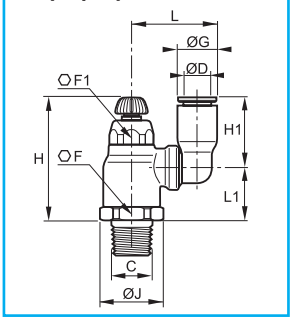
# flow control regulators – polymer version

## swivel outlet types, BSP taper

### 7045 «compact», BSP taper



body – polymer H.R.



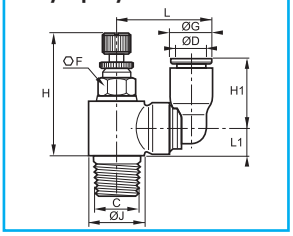

| ØD | C | exhaust (A) |
|---|---|---|
| 6 | R1/4 | 7045 06 13 |
| 8 | R1/8 | 7045 08 10 |
| 8 | R1/4 | 7045 08 13 |
| 8 | R3/8 | 7045 08 17 |
| 10 | R1/4 | 7045 10 13 |
| 10 | R3/8 | 7045 10 17 |
| 12 | R3/8 | 7045 12 17 |
| 12 | R1/2 | 7045 12 21 |

| 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 |


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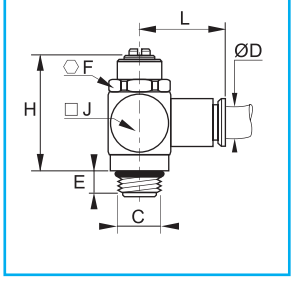
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# flow control regulators – metal version
## with recessed screw, BSP parallel and metric

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



treated brass body

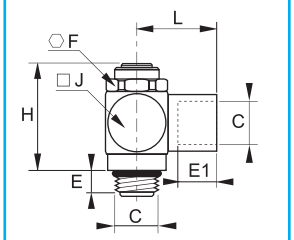



| ØD | C | exhaust (A) | E | F | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 7130 04 19 | 4 | 8 | 17 | 9 | 19 | 0,015 |
| 4 | G1/8 | 7130 04 10 | 5 | 13 | 34 | 15 | 20 | 0,018 |
| 6 | M5x0,8 | 7130 06 19 | 4 | 8 | 17 | 9 | 24 | 0,017 |
| 6 | G1/8 | 7130 06 10 | 5 | 13 | 34 | 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

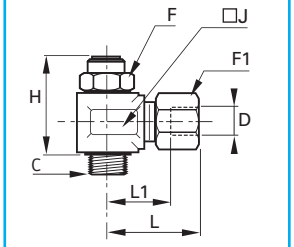



| C | exhaust (A) | E | E1 | F | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| M5x0,8 | 7140 19 19 | 4 | 4 | 8 | 21 | 9 | 11 | 0,018 |
| G1/8 | 7140 10 10 | 5 | 8 | 13 | 32 | 15 | 17 | 0,024 |
| G1/4 | 7140 13 13 | 8 | 12 | 17 | 39 | 18 | 24 | 0,036 |
| G3/8 | 7140 17 17 | 7 | 12 | 20 | 47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

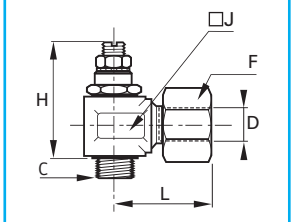



| ØD | C | exhaust (A) | F | F1 | H | J | L | L1 | kg |
|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 7160 04 10 | 13 | 10 | 26 | 17 | 25,5 | 14,5 | 0,050 |
| 6 | G1/8 | 7160 06 10 | 13 | 13 | 26 | 17 | 25,5 | 14,5 | 0,054 |
| 6 | G1/4 | 7160 06 13 | 17 | 13 | 31,5 | 22 | 28,5 | 17,5 | 0,108 |
| 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



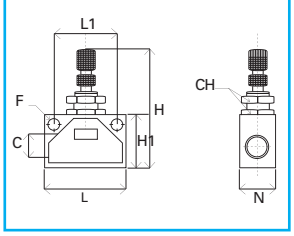

| Ø D | C | exhaust (A) | F | H | J | L | kg |
|---|---|---|---|---|---|---|---|
| 8 | G1/8 | 7762 08 10* | 14 | 40 | 17 | 28,5 | 0,054 |
| 10 | G1/4 | 7762 10 13 | 19 | 44 | 22 | 36,5 | 0,125 |
| 14 | G3/8 | 7762 14 17 | 24 | 65 | 27 | 37,5 | 0,215 |
| 18 | G1/2 | 7762 18 21 | 30 | 68,5 | 34 | 44 |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

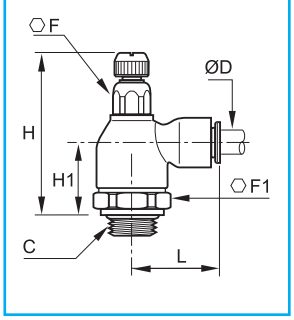
# flow control regulators – metal version

## with external screw, BSP parallel and metric

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



treated brass body

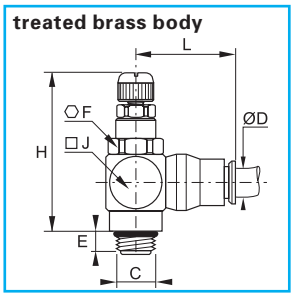



| ØD | C | exhaust (A) | supply (B) | F | F1 | H mini | H maxi | H1 | L | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 7100 04 10 | 7101 04 10 | 10 | 19 | 47 | 53 | 23 | 21 | 0,076 |
| 6 | G1/8 | 7100 06 10 | 7101 06 10 | 10 | 19 | 47 | 53 | 23 | 24,5 | 0,078 |
| 6 | G1/4 | 7100 06 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

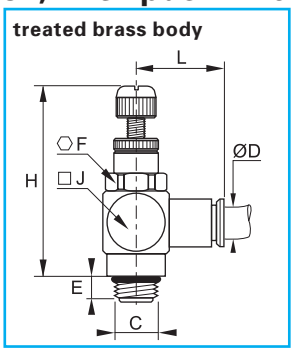



| ØD | C | exhaust (A) | E | F | H maxi | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 7680 06 10 | 5 | 13 | 44 | 7,5 | 24,5 | 0, 005 |
| 8 | G1/8 | 7680 08 10 | 5 | 13 | 44 | 7,5 | 25,5 | 0, 014 |
| 8 | G1/4 | 7680 08 13 | 8 | 17 | 47 | 9 | 27 | 0, 005 |
| 10 | G3/8 | 7680 10 17 | 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

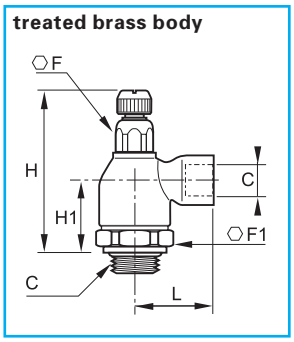



| ØD | C | exhaust (A) | E | F | H maxi | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 7180 04 19 | 4 | 8 | 30 | 10 | 19 | 0,021 |
| 4 | G1/8 | 7180 04 10 | 5 | 13 | 44 | 15 | 20 | 0,027 |
| 6 | M5x0,8 | 7180 06 19 | 4 | 8 | 30 | 10 | 24 | 0,031 |
| 6 | G1/8 | 7180 06 10 | 5 | 13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

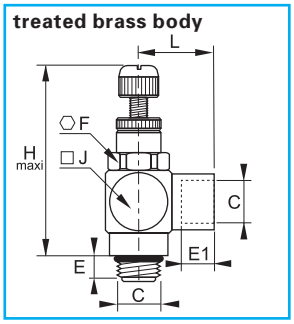



| C | exhaust (A) | supply (B) | F | F1 | H mini | H maxi | H1 | L | kg |
|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 7110 10 10 | 7111 10 10 | 10 | 19 | 47 | 52,5 | 23 | 22,5 | 0,076 |
| G1/4 | 7110 13 13 | 7111 13 13 | 14 | 19 | 50,5 | 55,5 | 25 | 32 | 0,107 |
| G3/8 | 7110 17 17 | | 17 | 25 | 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

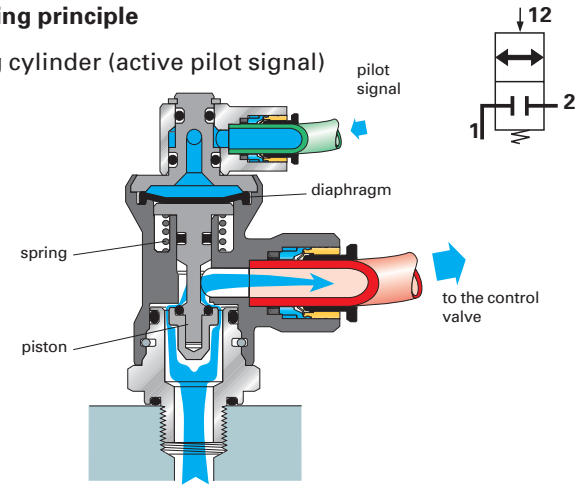


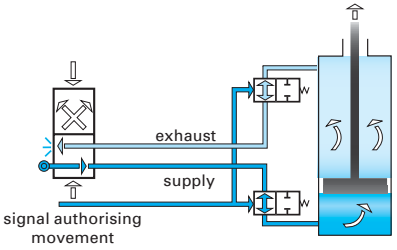
**7971**
in-line with threaded connections
page B33



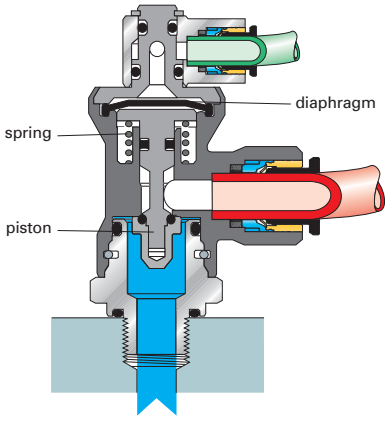
## Operating principle

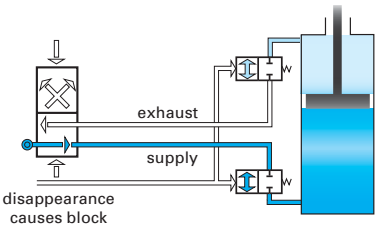
moving cylinder (active pilot signal)



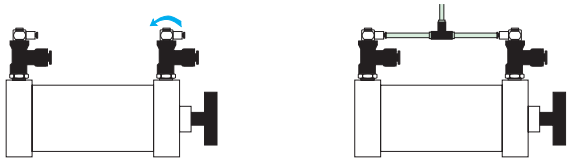

blocked cylinder (pilot signal removed)




## 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

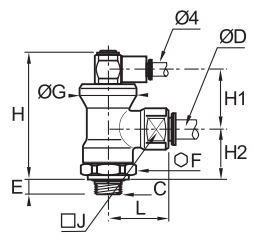
| | |
|---|---|
| **working pressure** | 1 to 10 bar |
| **working temperature** | - 20° to + 70°C |
| **number of cycles** | > 10 million at 20°C and 1 Hz |
| **constituent materials** | **body** : treated brass<br>**seals, diaphragm** : nitrile<br>**gripping ring** : stainless steel |

| 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

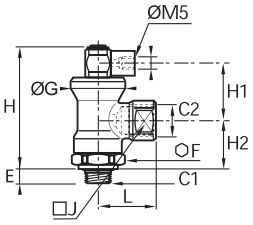



| ØD | C | | E | F | G | H | H1 | H2 | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 7880 06 10 | 5,5 | 21 | 24 | 53 | 24,5 | 21 | 17 | 28 | 0,122 |
| 6 | G1/4 | 7880 06 13 | 6,5 | 21 | 24 | 53 | 24,5 | 21 | 17 | 28 | 0,123 |
| 8 | G1/4 | 7880 08 13 | 6,5 | 21 | 24 | 53 | 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

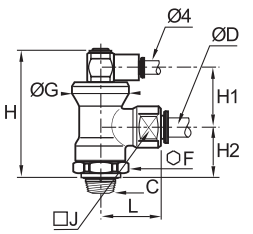



| C1 | C2 | | E | F | G | H | H1 | H2 | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | G1/4 | 7881 13 10 | 5 | 21 | 24 | 53 | 24,5 | 21 | 17 | 28 | 0,113 |
| G1/4 | G1/4 | 7881 13 13 | 5,5 | 21 | 24 | 53 | 24,5 | 21 | 17 | 28 | 0,115 |
| G3/8 | G3/8 | 7881 17 17 | 5,5 | 24 | 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

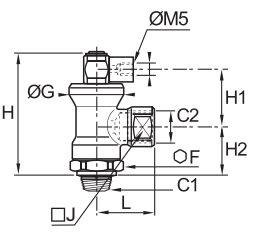



| ØD | C | | F | G | H | H1 | H2 | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | R1/8 | 7885 06 10 | 21 | 24 | 51,5 | 25 | 20 | 17 | 28 | 0,123 |
| 6 | R1/4 | 7885 06 13 | 21 | 24 | 51,5 | 25 | 20 | 17 | 28 | 0,126 |
| 8 | R1/4 | 7885 08 13 | 21 | 24 | 51,5 | 25 | 20 | 17 | 28 | 0,121 |
| 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

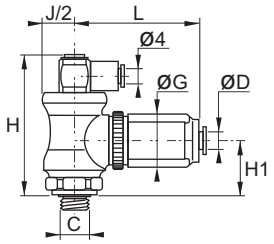



| C1 | C2 | | F | G | H | H1 | H2 | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| R1/4 | R1/8 | 7886 13 10 | 21 | 24 | 51,5 | 25 | 20 | 17 | 26,5 | 0,117 |
| R1/4 | R1/4 | 7886 13 13 | 21 | 24 | 51,5 | 25 | 20 | 17 | 26,5 | 0,120 |
| R3/8 | R3/8 | 7886 17 17 | 24 | 28 | 57 | 25 | 24 |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

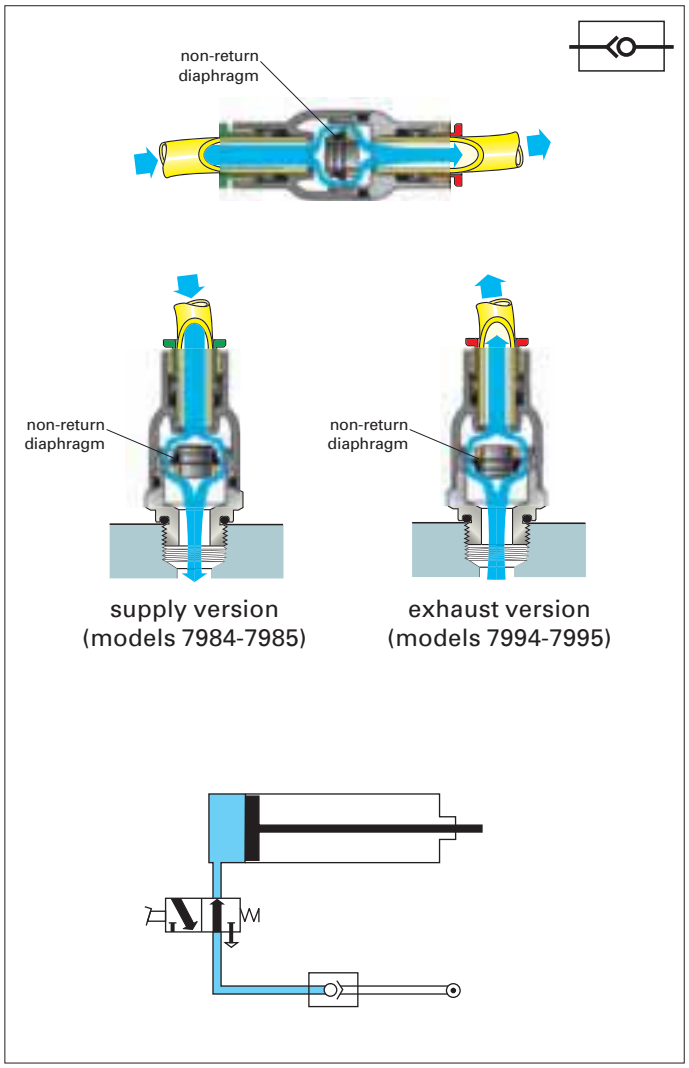



| ØD | C | | G | H | H1 | J/2 | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 7883 04 10 | 21,5 | 53 | 21 | 12 | 52 | 0,126 |
| 6 | G1/8 | 7883 06 10 | 21,5 | 53 | 21 | 12 | 52 | 0,164 |
| 6 | G1/4 | 7883 06 13 | 21,5 | 53 | 21 | 12 | 52 | 0,166 |
| 8 | G1/4 | 7883 08 13 | 27 | 57,5 | 24,7 | 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 |

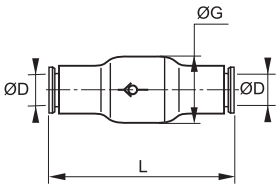
You will also find stainless steel non return valves in page G5.



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



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

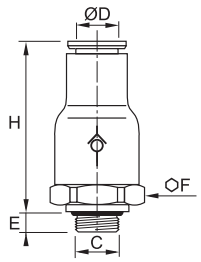



| Ø D | | G | L | kg |
|---|---|---|---|---|
| 4 | 7996 04 00 | 16 | 38,5 | 0,008 |
| 6 | 7996 06 00 | 16 | 41 | 0,013 |
| 8 | 7996 08 00 | 19 | 51,5 | 0,018 |
| 10 | 7996 10 00 | 23 | 63,5 | |
| 12 | 7996 12 00 | 23 | 66,5 | |

## 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 |

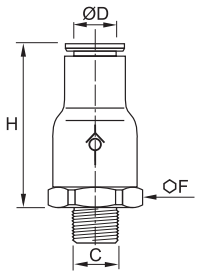
B
A

| 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



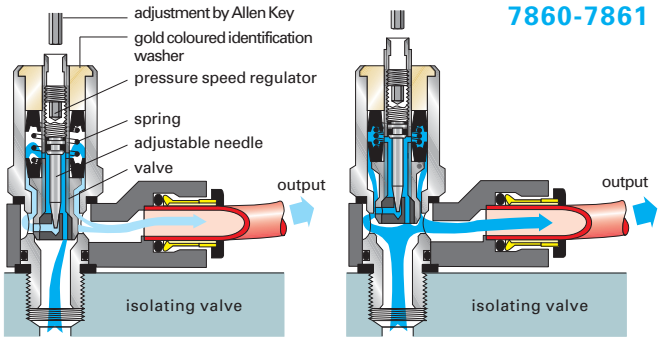

| ØD | C | exhaust (A) | supply (B) |
|---|---|---|---|
| 4 | R1/8 | 7995 04 10 | 7985 04 10 |
| 6 | R1/8 | 7995 06 10 | 7985 06 10 |
| 6 | R1/4 | 7995 06 13 | 7985 06 13 |
| 8 | R1/8 | 7995 08 10 | 7985 08 10 |
| 8 | R1/4 | 7995 08 13 | 7985 08 13 |
| 10 | R3/8 | 7995 10 17 | 7985 10 17 |
| 12 | R3/8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

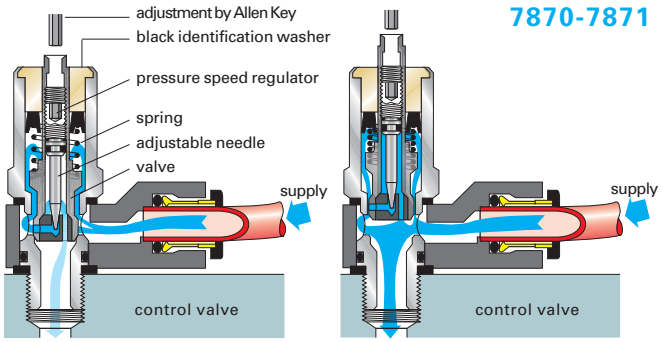
B
A

| 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



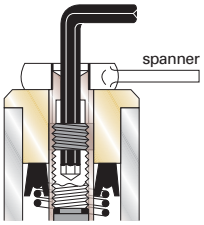




## adjusting the speed of pressurisation

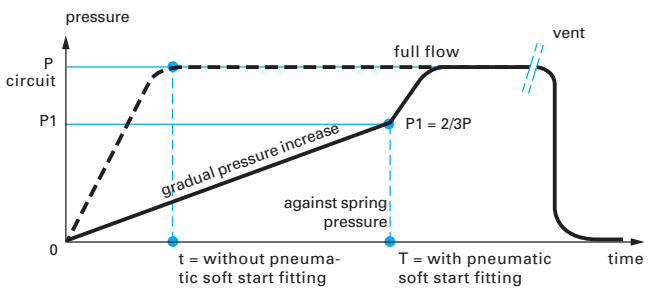
Adjusting the needle to regulate the flow of air optimises the time taken to pressurise depending on the air volume to be refilled and the system requirements.

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

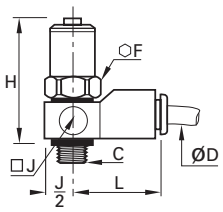
| | | |
|---|---|---|
| **working temperature** | | - 15° to + 60°C |
| **working pressure** | | 3 to 10 bar |
| **maximum tightening torque** | **threads** | **da Nm** |
| | G1/4 | 1,3 |
| | G3/8 | 1,5 |
| | G1/2 | 1.8 |
| **model** | **air flow at 6 bar** | **Kv** |
| **7860 08 13** | 1500 Nl/min | 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

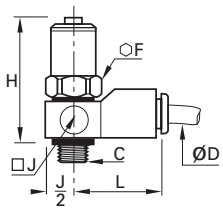



| ØD | C | | F | H maxi | H mini | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 8 | G1/4 | 7860 08 13 | 17 | 61 | 54 | 20 | 35 | 0,066 |
| 10 | G1/4 | 7860 10 13 | 22 | 62 | 55 | 25 | 41 | 0,110 |
| 10 | G3/8 | 7860 10 17 | 22 | 62 | 55 | 25 | 41 | 0,113 |
| 12 | G3/8 | 7860 12 17 | 22 | 62 | 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

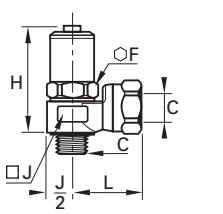



| ØD | C | | F | H maxi | H mini | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 8 | G1/4 | 7870 08 13 | 17 | 61 | 54 | 20 | 35 | 0,068 |
| 10 | G1/4 | 7870 10 13 | 22 | 62 | 55 | 25 | 41 | 0,112 |
| 10 | G3/8 | 7870 10 17 | 22 | 62 | 55 | 25 | 41 | 0,115 |

## 7861 for system isolating valve with threaded fitting



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

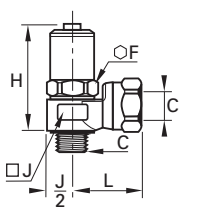



| C | | F | H maxi | H mini | J | L | kg |
|---|---|---|---|---|---|---|---|
| G1/4 | 7861 13 13 | 22 | 62 | 54 | 24 | 31 | 0,148 |
| G3/8 | 7861 17 17 | 22 | 62 | 55 | 24 | 31 | 0,140 |
| G1/2 | 7861 21 21 | 24 | 70,5 | 63,5 | 24 | 34,5 | 0,178 |

## 7871 for control valve with threaded connection fitting



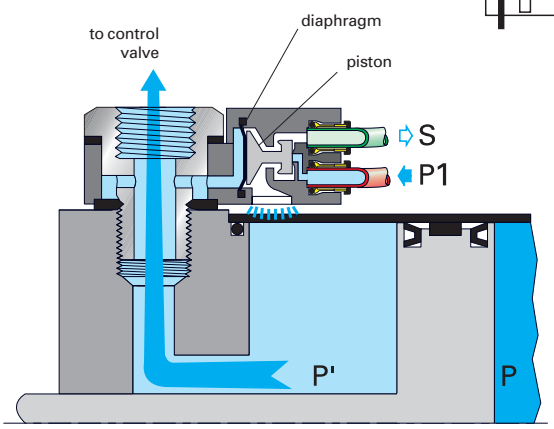
Body : nickel-plated brass
Vertical threaded
sub-assembly : nickel-plated brass with sealing washer

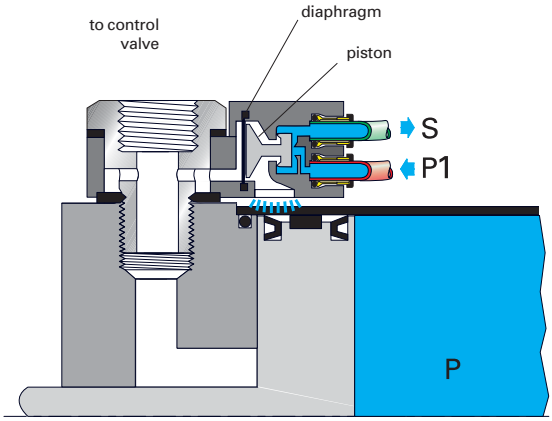



| C | | F | H maxi | H mini | J | L | kg |
|---|---|---|---|---|---|---|---|
| G1/4 | 7871 13 13 | 22 | 62 | 55 | 24 | 31 | 0,149 |
| G3/8 | 7871 17 17 | 22 | 62 | 55 | 24 | 31 | 0,141 |

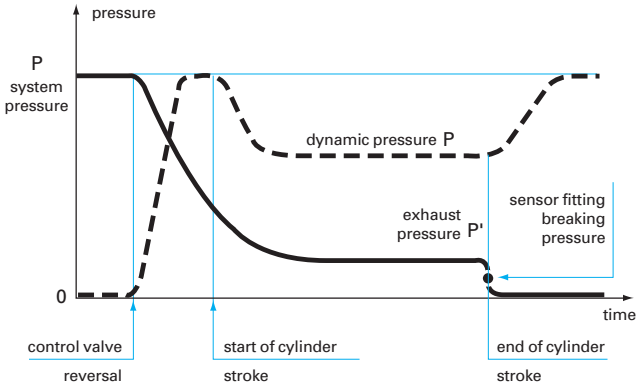
# pneumatic sensor fittings

## principle of operation

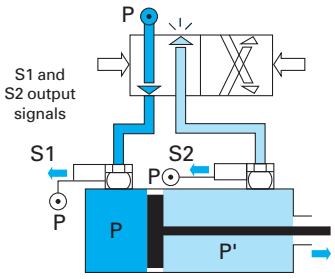



P' : exhaust pressure
P : system pressure
P1 : supply pressure for sensor
S : output signal




## 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



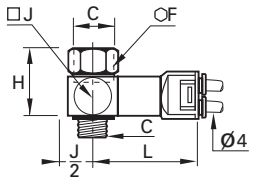

## technical specifications of pneumatic sensor fittings

| | | |
|---|---|---|
| **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<br>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



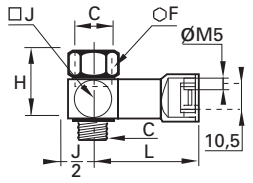

*M5 : bolt zinc passivated steel

| 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

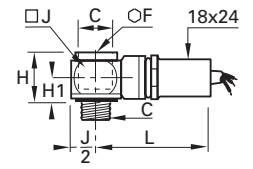



| C | | DN mini | F | H | J | L | kg |
|---|---|---|---|---|---|---|---|
| G1/8 | 7818 19 10 | 5 | 14 | 23 | 16 | 40,5 | 0,087 |
| G1/4 | 7818 19 13 | 7 | 17 | 28 | 19,5 | 42,5 | 0,117 |

## 7828 pneumatic/electric BSP parallel and metric



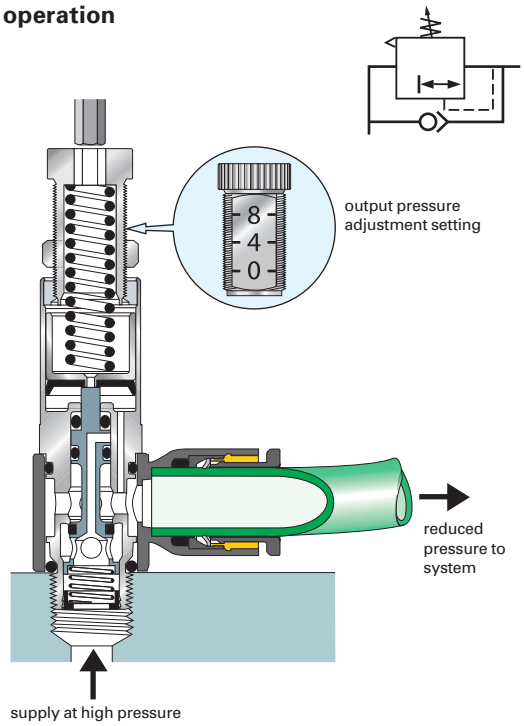
body : engineering plastics
bolt : brass with sealing washer



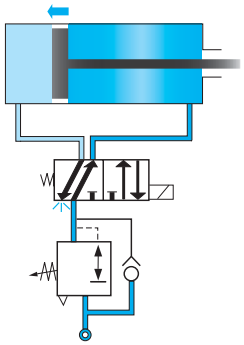

| C | | F | H | H1 | J | L | kg |
|---|---|---|---|---|---|---|---|
| M5x0,8 | 7828 00 19 | 8 | 20 | 10 | 11 | 49 | 0,115 |
| G1/8 | 7828 00 10 | 6 | 20 | 10 | 16 | 52 | 0,120 |
| G1/4 | 7828 00 13 | 8 | 20 | 10 | 21 | 54 | 0,125 |
| G3/8 | 7828 00 17 | 10 | 22 | 12 | 28 | 57 | 0,150 |
| G1/2 | 7828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

# pressure regulator fittings (relieving type)

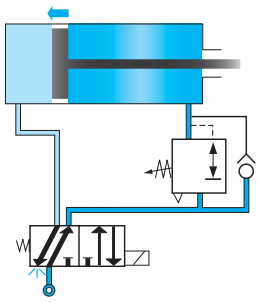
**principle of operation**



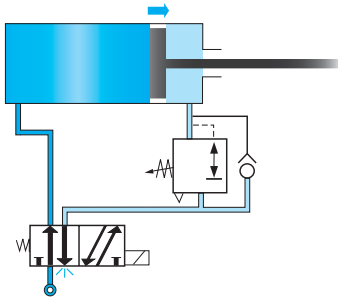

**mounting upstream of control :**
valve adjustment of piston feed pressure in both directions



**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.

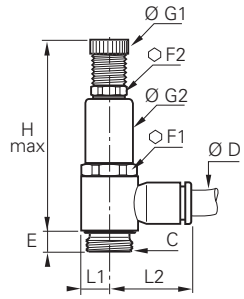
## technical specification of pressure regulator fittings

| | | | | |
|---|---|---|---|---|
| **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<br>**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

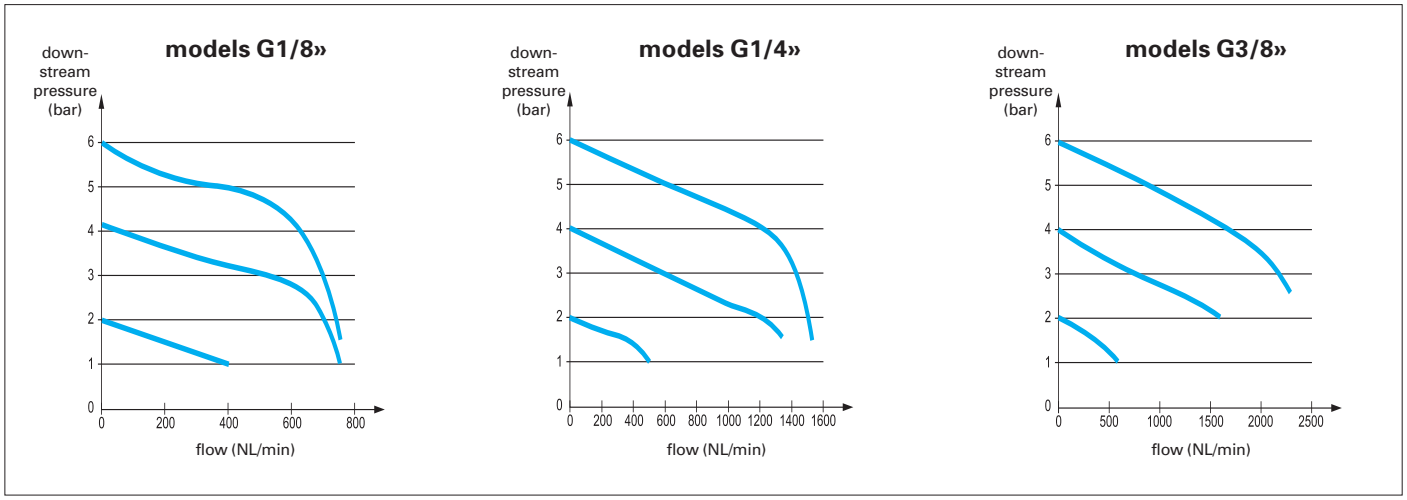


**plastic body**
**nickel-plated brass screw**
**with sealing washer**

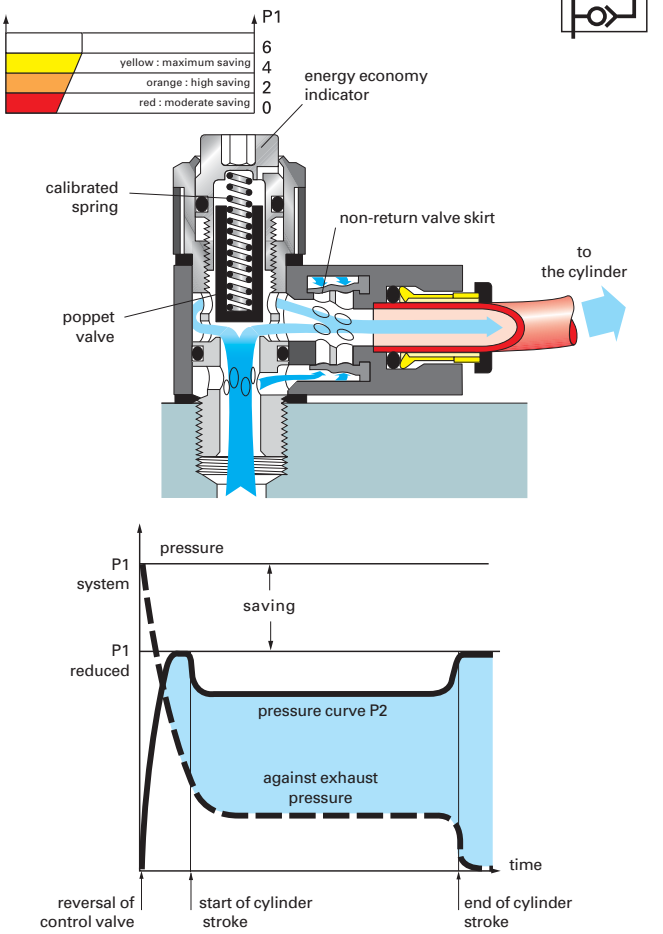



| ØD | C | | E | F1 | F2 | G1 | G2 | H maxi | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 7300 04 10 | 4,5 | 17 | 13 | 14 | 18,5 | 60,5 | 7 | 18,5 | 0,038 |
| 6 | G1/8 | 7300 06 10 | 4,5 | 17 | 13 | 14 | 18,5 | 60,5 | 7 | 20 | 0,045 |
| 6 | G1/4 | 7300 06 13 | 7,5 | 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 |

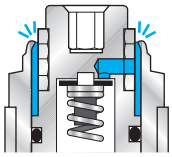
## Flow characteristics – Upstream pressure = 7 bar



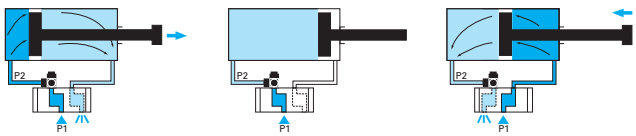
## pressure reducer fittings




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.

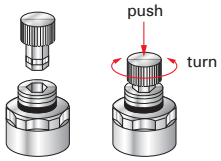


**1** - outward stroke **2** - retention at end of stroke **3** - return stroke

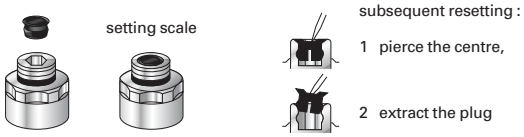



### principle of operation

- 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

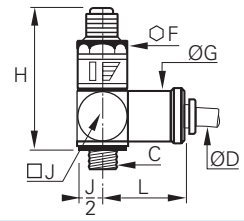
| | | | | | |
|---|---|---|---|---|---|
| **working pressure** | 1 to 8 bar | | | | |
| **working temperature** | -15° à +60°C | | | | |
| **maximum tightening torques of pressure regulators fittings 7318 and 7471** | thread | G1/8“ | G1/4“ | G3/8“ | G1/2“ |
| | m. da N | 0,8 | 1,2 | 3 | 3,5 |

# pressure reducer fittings

## 7318 with LF 3000® instant connection, BSP parallel



metal body fitted with Legris sealing ring 0125

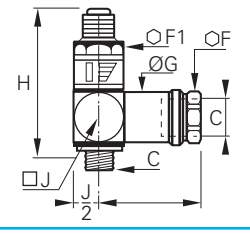



| ØD | C | | DN mini | F | G | H mini | H maxi | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 7318 06 10 | 4 | 19 | 20 | 49 | 57 | 21 | 43 | 0,135 |
| 6 | G1/4 | 7318 06 13 | 4 | 19 | 20 | 49 | 57 | 21 | 43 | 0,136 |
| 8 | G1/4 | 7318 08 13 | 6 | 19 | 20 | 49 | 57 | 21 | 40 | 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

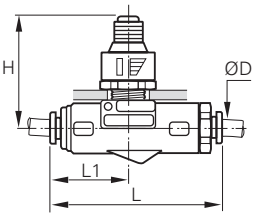



| C | | DN mini | F | F1 | G | H mini | H maxi | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 7471 10 10 | 4 | 19 | 19 | 20 | 49 | 57 | 21 | 45 | 0,157 |
| G1/4 | 7471 13 13 | 6 | 19 | 19 | 20 | 49 | 57 | 21 | 45 | 0,150 |
| G3/8 | 7471 17 17 | 8 | 24 | 27 | 26 | 55 | 64 | 28 | 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



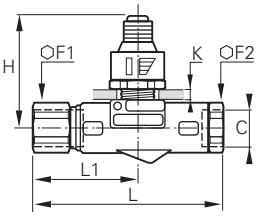

| ØD | | DN mini | F | H mini | H maxi | L | L1 | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | 7316 06 00 | 4 | 22 | 49 | 57 | 74 | 32 | 0,208 |
| 8 | 7316 08 00 | 6 | 22 | 49 | 57 | 71 | 32 | 0,196 |
| 10 | 7316 10 00 | 8 | 27 | 61 | 70 | 89 | 41 | 0,405 |

this model is supplied with a bulkhead nut.

## 7416 in-line with threaded connection, BSP parallel



body : nickel-plated brass



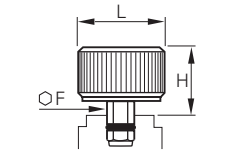

| C | | DN mini | F1 | F2 | H mini | H maxi | K maxi | L | L1 | T mini | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 7416 10 10 | 4 | 17 | 19 | 49 | 57 | 4 | 74 | 35 | 18,5 | 0,157 |
| G1/4 | 7416 13 13 | 6 | 17 | 19 | 49 | 57 | 4 | 83 | 44 | 18,5 | 0,150 |
| G3/8 | 7416 17 17 | 8 | 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

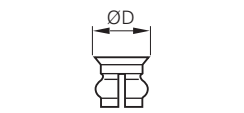



| F | | H | L | kg |
|---|---|---|---|---|
| 6 | 7000 00 00 | 15 | 22 | 0,039 |

## 7000 00 01 sealing plug for manual control version

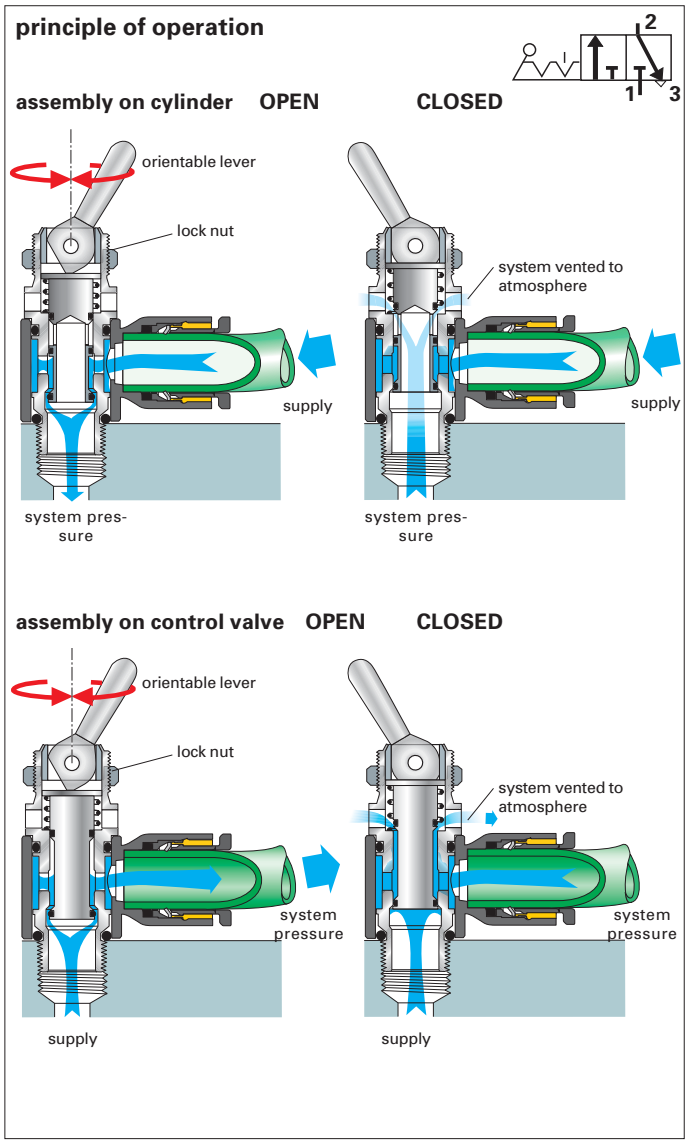


polymer




| ØD | | kg |
|---|---|---|
| 6 - 16 | 7000 00 01 | 0,001 |

# manually operated valves
## manual switch operated vent fittings

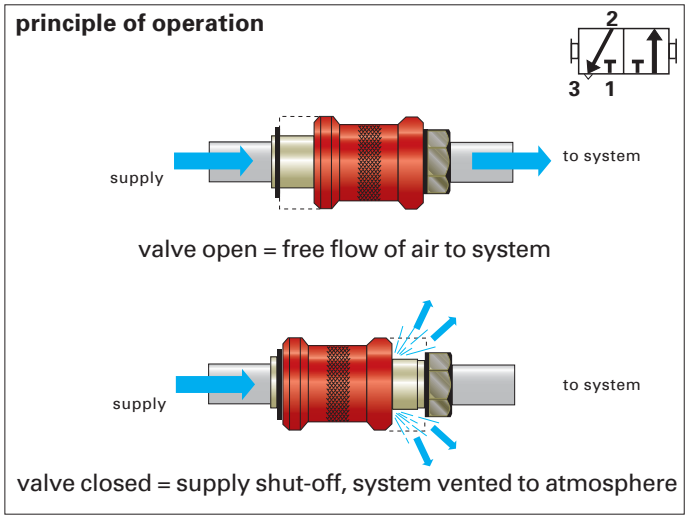



**3/2 and 2/2 manual switch operated vent fittings**

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



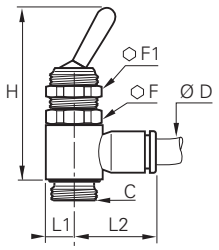

Legris pneumatic sleeve valves may be used to effect immediate isolation of the air line by venting the system to atmosphere. By moving the sleeve in one direction, the air is free to pass through the sleeve valve to the system. By moving it in the opposite direction, the supply is shut off and downstream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



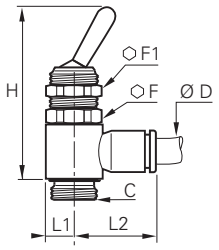

| ØD | C | supply | F | F1 | H | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5x0,8 | 7800 04 19 | 8 | - | 32 | 4 | 16 | 0,020 |
| 4 | G1/8 | 7800 04 10 | 14 | 14 | 43 | 7 | 18,5 | 0,027 |
| 6 | M5x0,8 | 7800 06 19 | 8 | - | 32 | 4 | 19 | 0,022 |
| 6 | G1/8 | 7800 06 10 | 14 | 14 | 43 | 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**

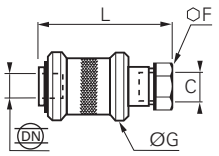



| ØD | C | | F | F1 | H | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 7802 04 10 | 14 | 14 | 43 | 7 | 18,5 | 0,027 |
| 6 | G1/8 | 7802 06 10 | 14 | 14 | 43 | 7 | 20,5 | 0,029 |
| 6 | G1/4 | 7802 06 13 | 17 | 14 | 50,5 | 8,5 | 22,5 | 0,044 |
| 8 | G1/8 | 7802 08 10 | 14 | 14 | 43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

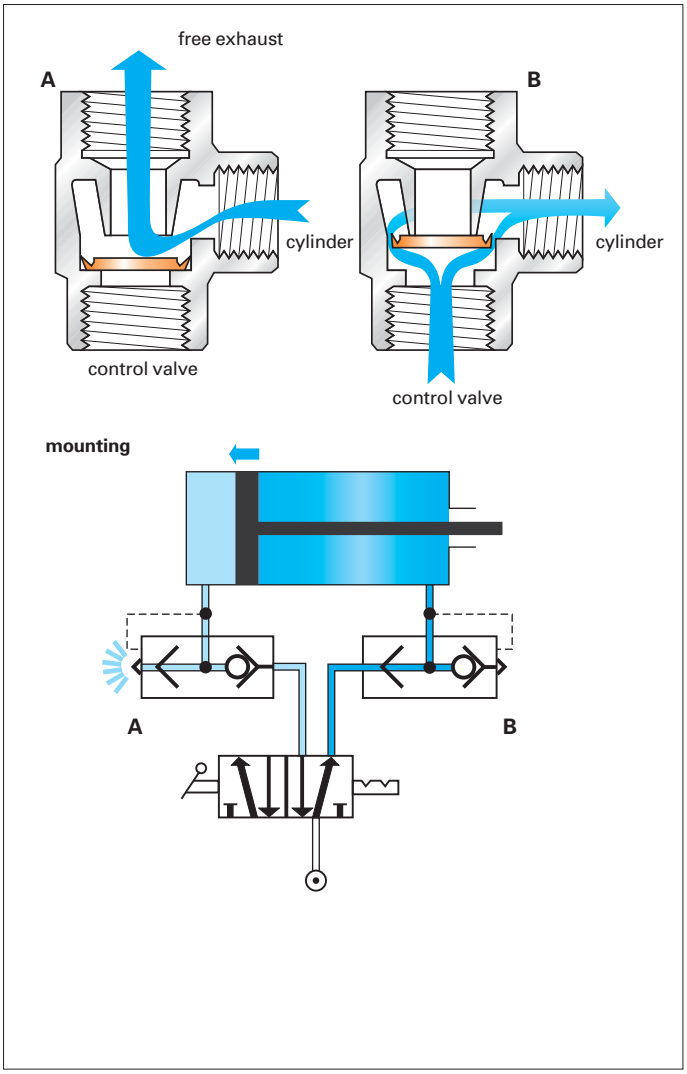


**body: nickel-plated brass**
**sleeve: anodised aluminium**




| 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<br>Seals : polyurethane elastomer from 1/8 to 1'', NBR for M5 |

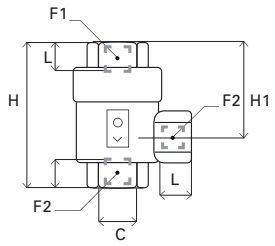
## Technical specifications for 7971

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

## 7970 elbow quick exhaust valve, female BSP parallel thread



Nickel-plated brass body

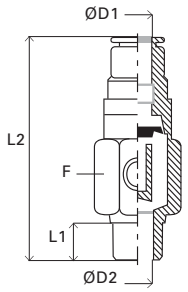



| C | | F1 | F2 | H | H1 | L | kg |
|---|---|---|---|---|---|---|---|
| M5 | 7970 19 19 | 10 | 10 | 24.8 | 15,6 | 4 | |
| G1/8 | 7970 10 10 | 14 | 14 | 42 | 28 | 8 | |
| G1/4 | 7970 13 13 | 19 | 19 | 53 | 34,5 | 11 | |
| G3/8 | 7970 17 17 | 21 | 21 | 58 | 36 | 12 | |
| G1/2 | 7970 21 21 | 26 | 26 | 71 | 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 | |

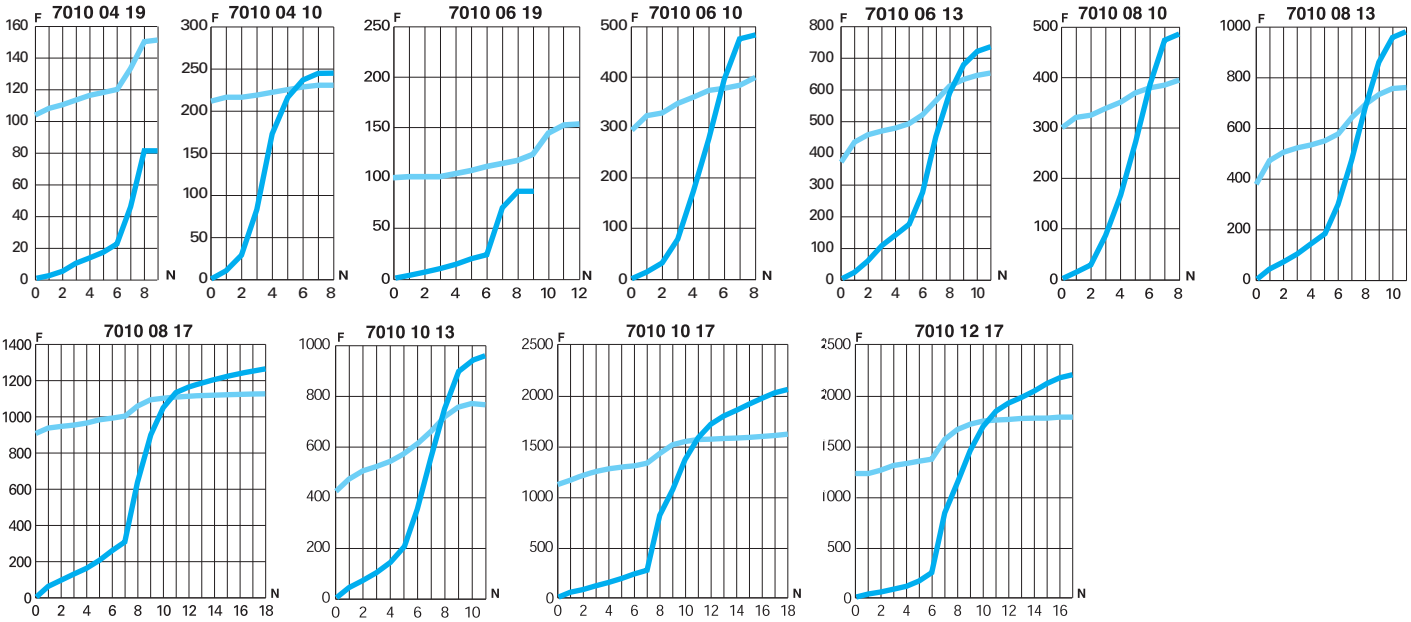
# flow control regulators

## flow characteristics (at 6 bar)

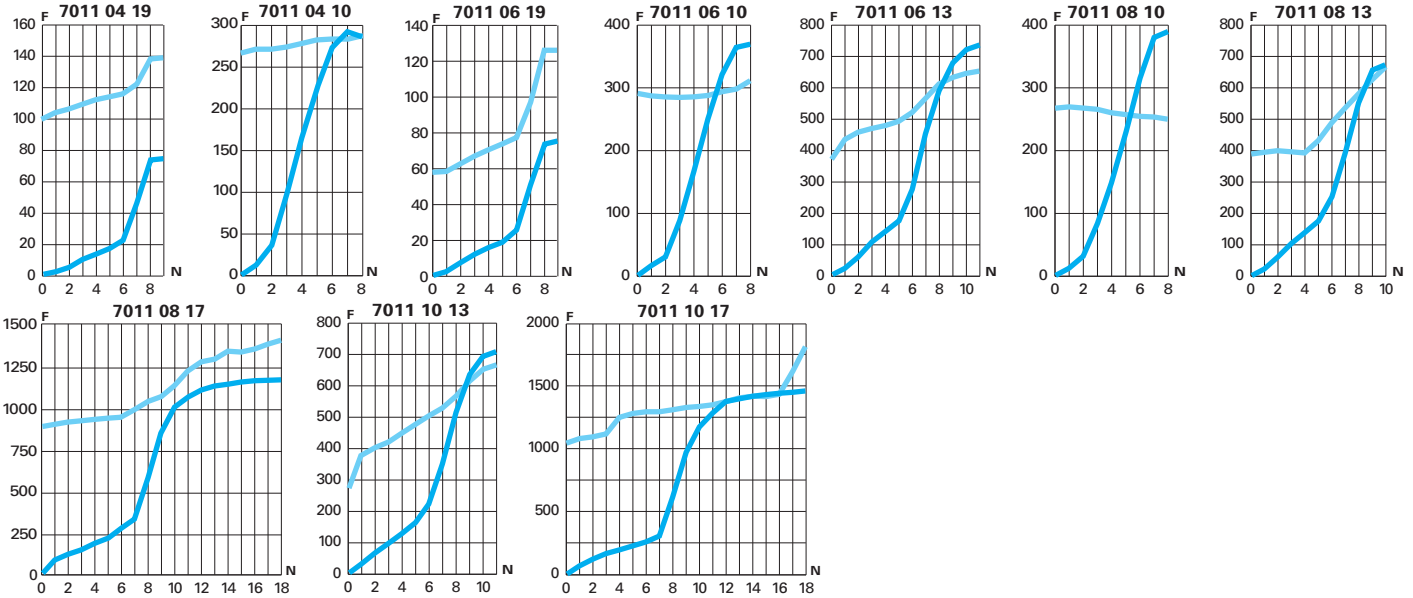


## 7010 - 7011 - 7012

### 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

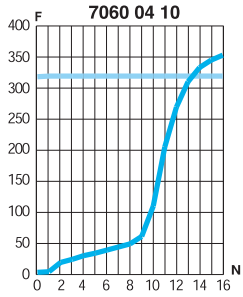
# flow control regulators

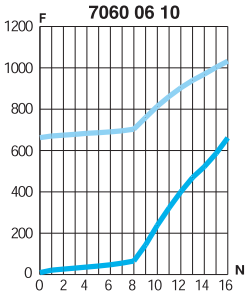
## flow characteristics (at 6 bar)

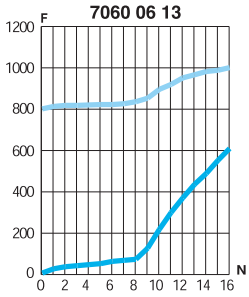


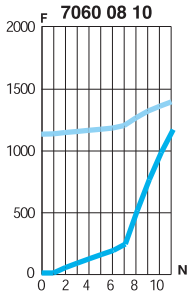
## 7060 - 7061 - 7062

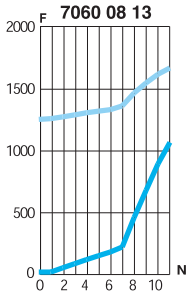
### 7060

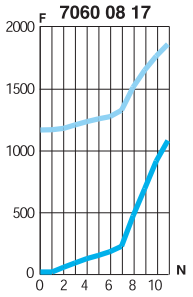


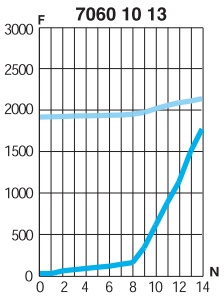



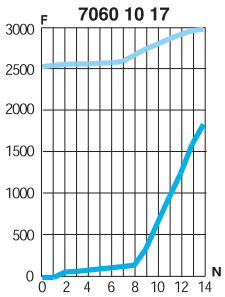



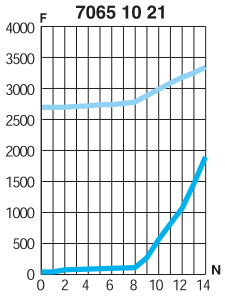



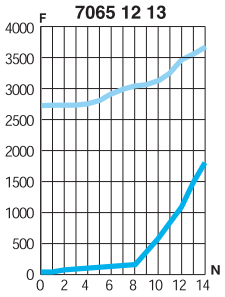



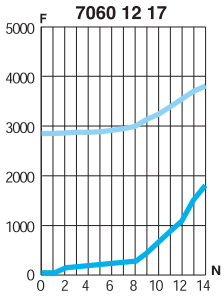



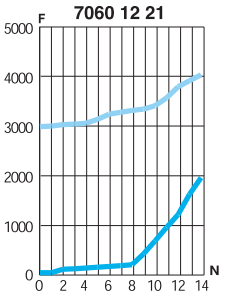



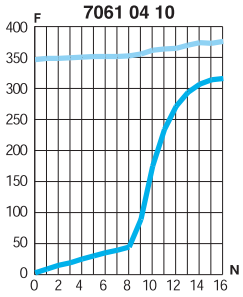



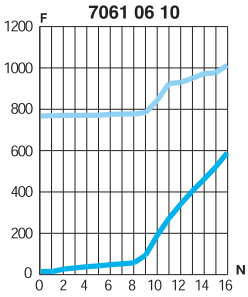



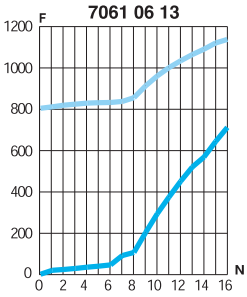



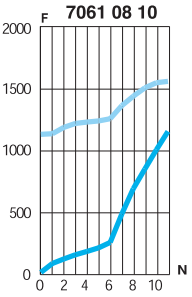



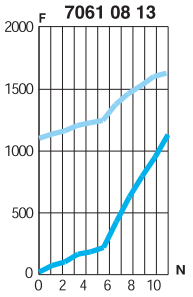

### 7061

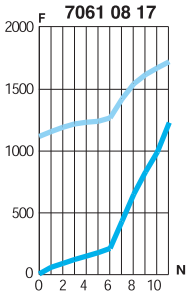


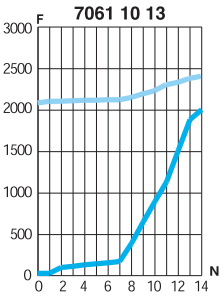



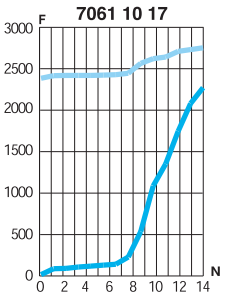



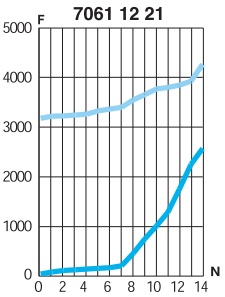




### 7062

**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

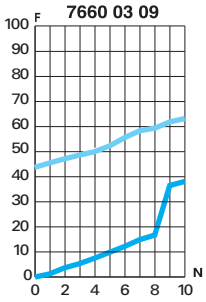
# flow control regulators

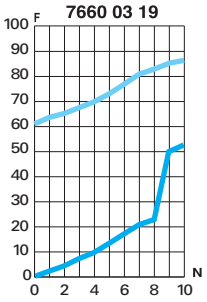
## flow characteristics (at 6 bar)

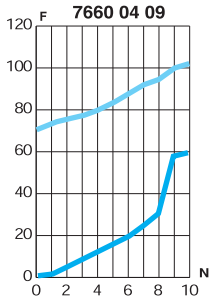


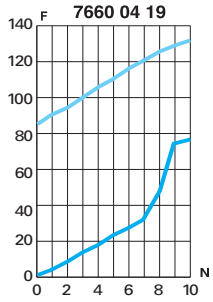
## 7660 - 7669 - 7662

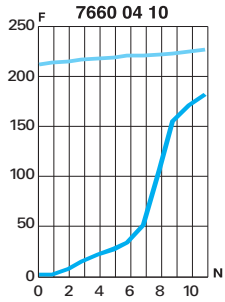
### 7660

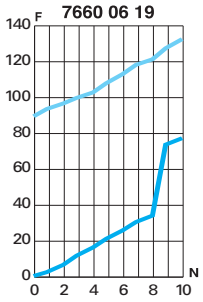


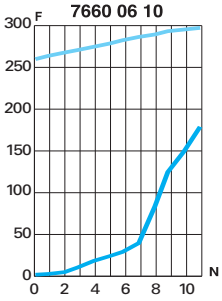



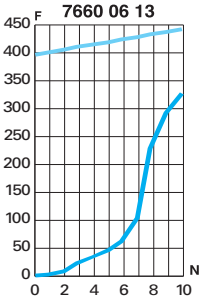



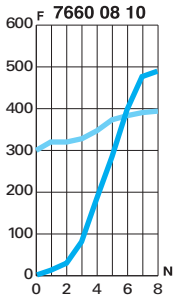



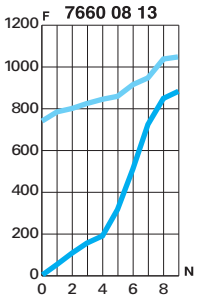



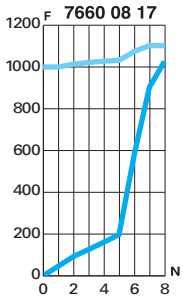



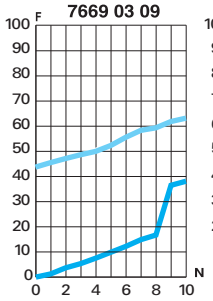



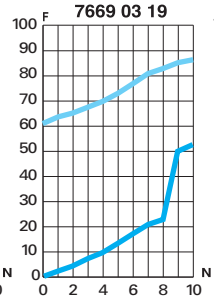



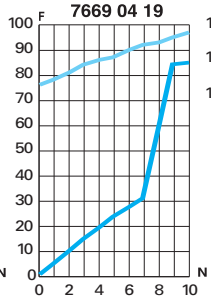



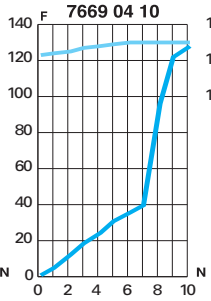



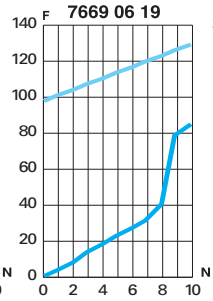

### 7669

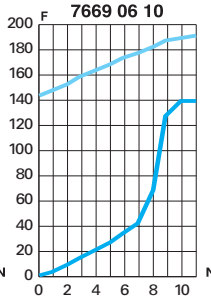


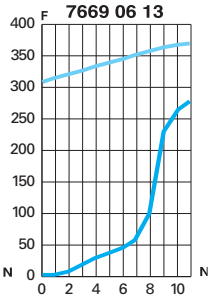



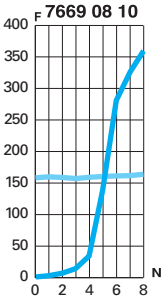



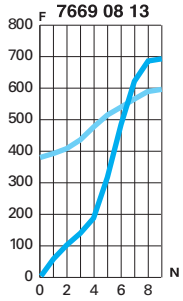



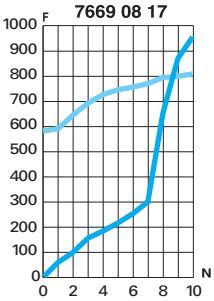




### 7662

**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

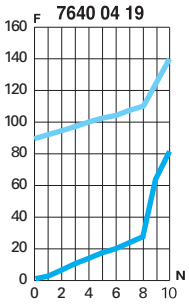
# flow control regulators

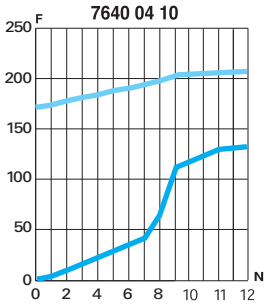
## flow characteristics (at 6 bar)

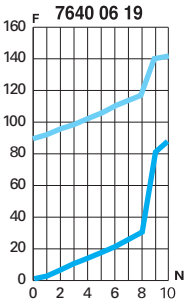


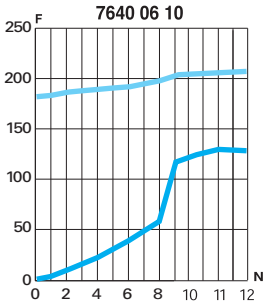
## 7640 - 7649

### 7640

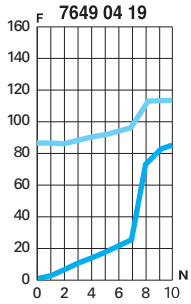


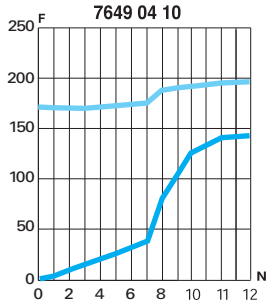



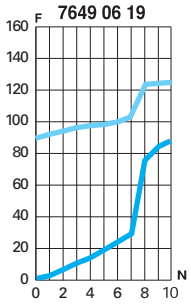



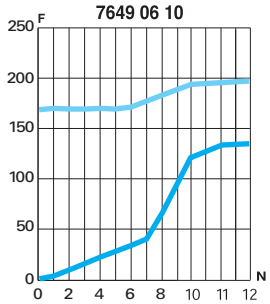




### 7649



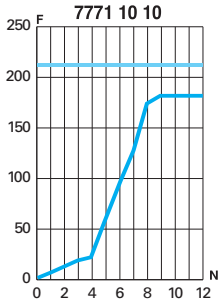



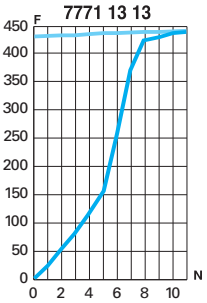



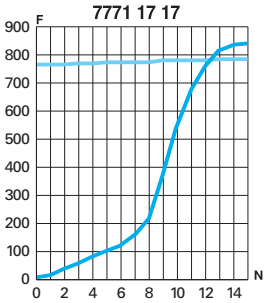



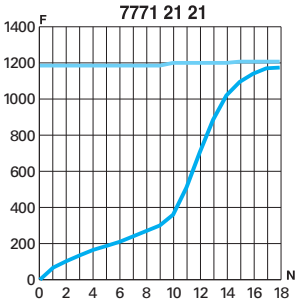



## 7771



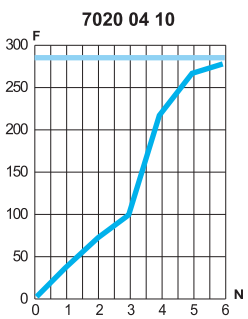



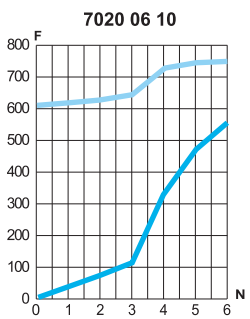



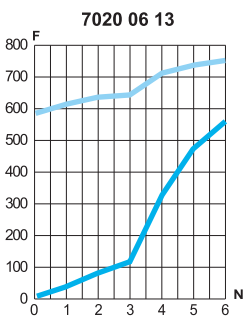



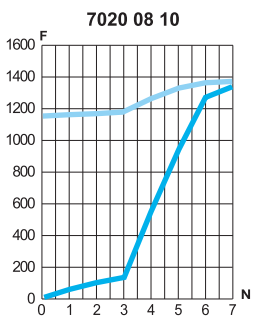


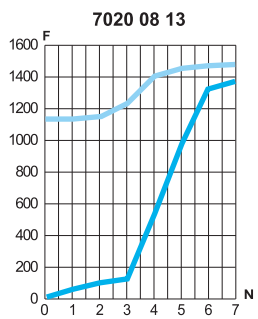

## 7020



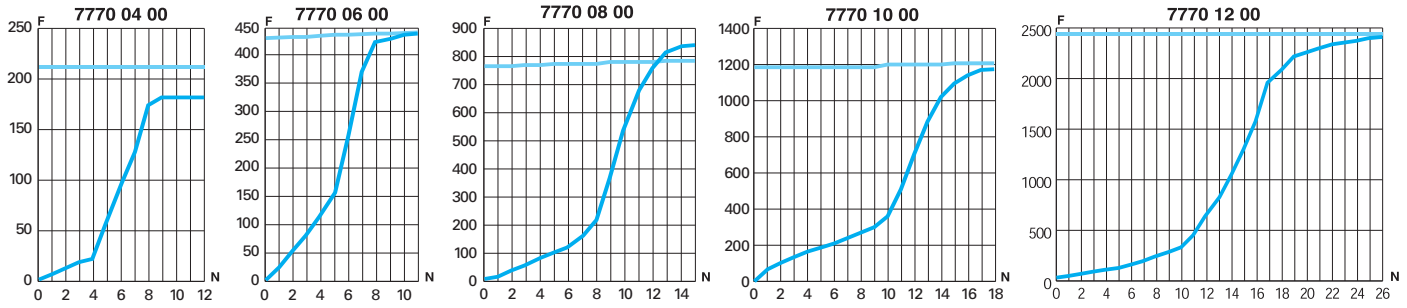



# flow control regulators

## flow characteristics (at 6 bar)

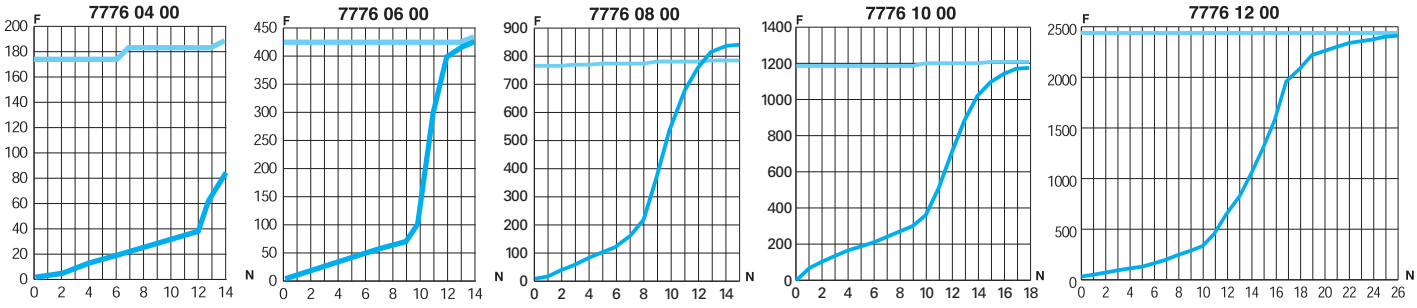


### 7770



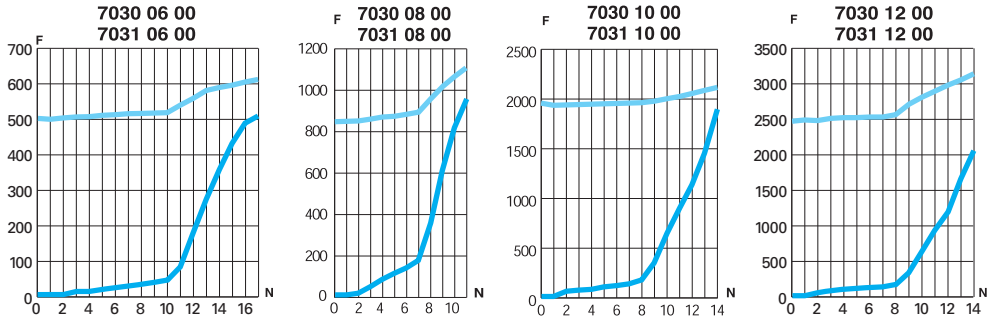



### 7776



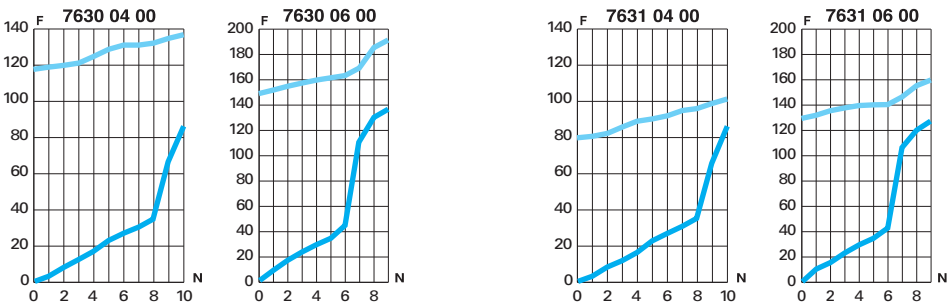



### 7030 - 7031






### 7630 - 7631



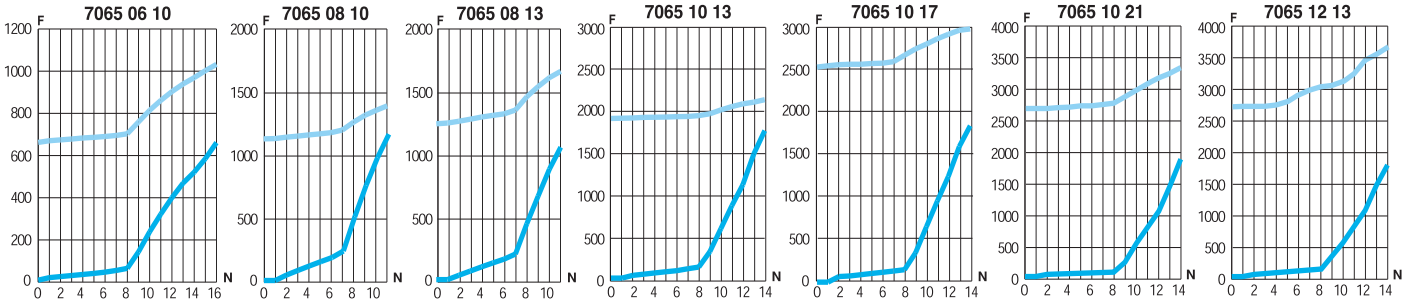
# flow control regulators

## flow characteristics (at 6 bar)

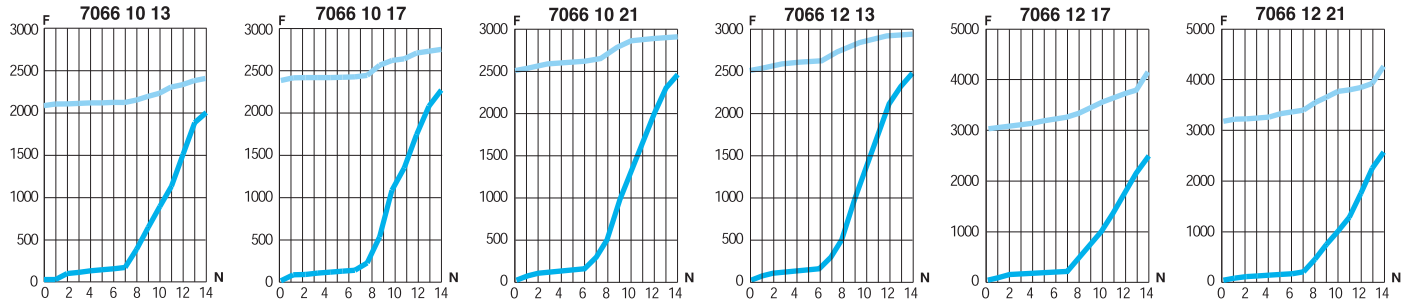


### 7065 - 7066 - 7067

### 7065




### 7066




### 7067

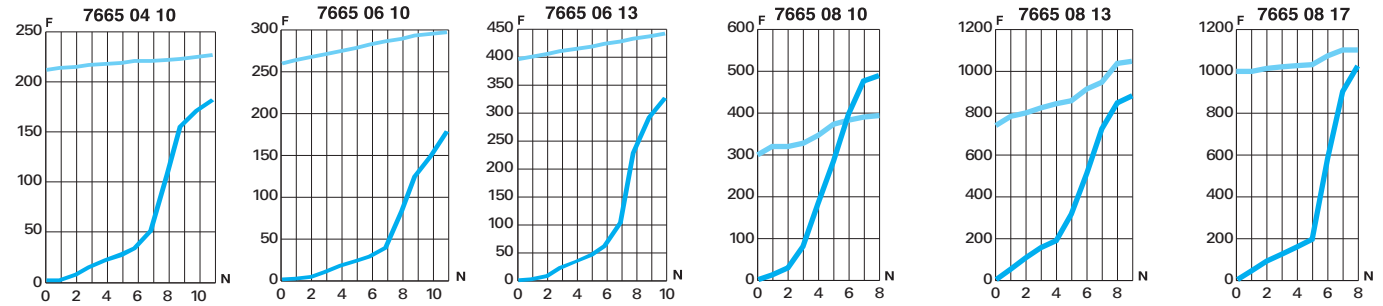
**Flow characteristics of model 7067**

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

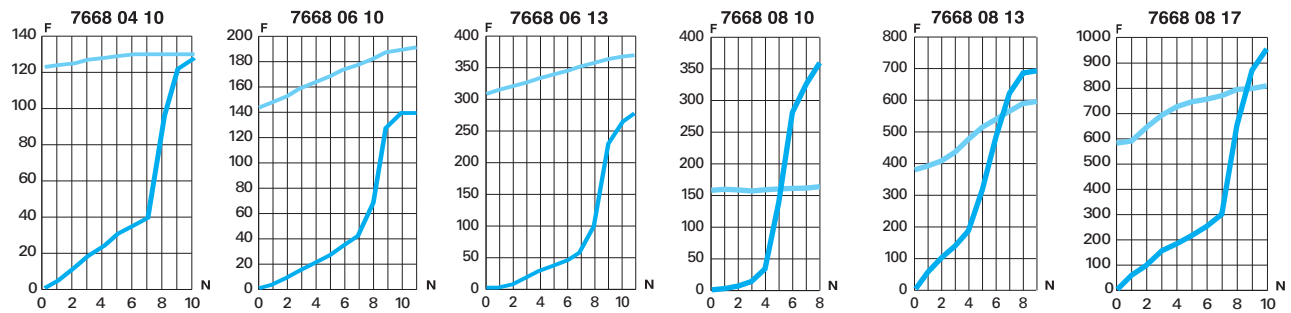


### 7665 - 7668

### 7665




### 7668

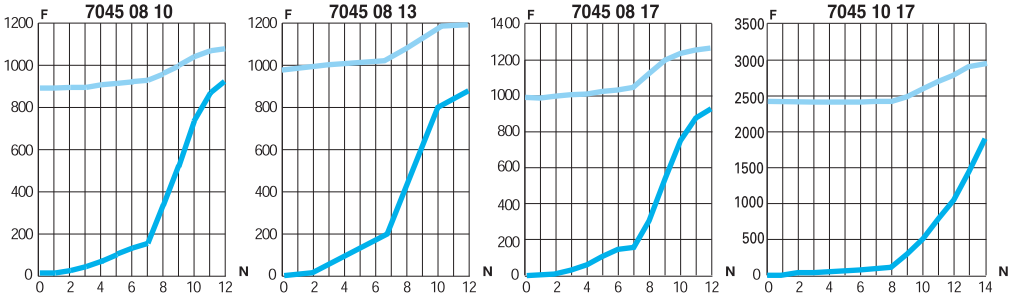


# flow control regulators

## flow characteristics (at 6 bar)

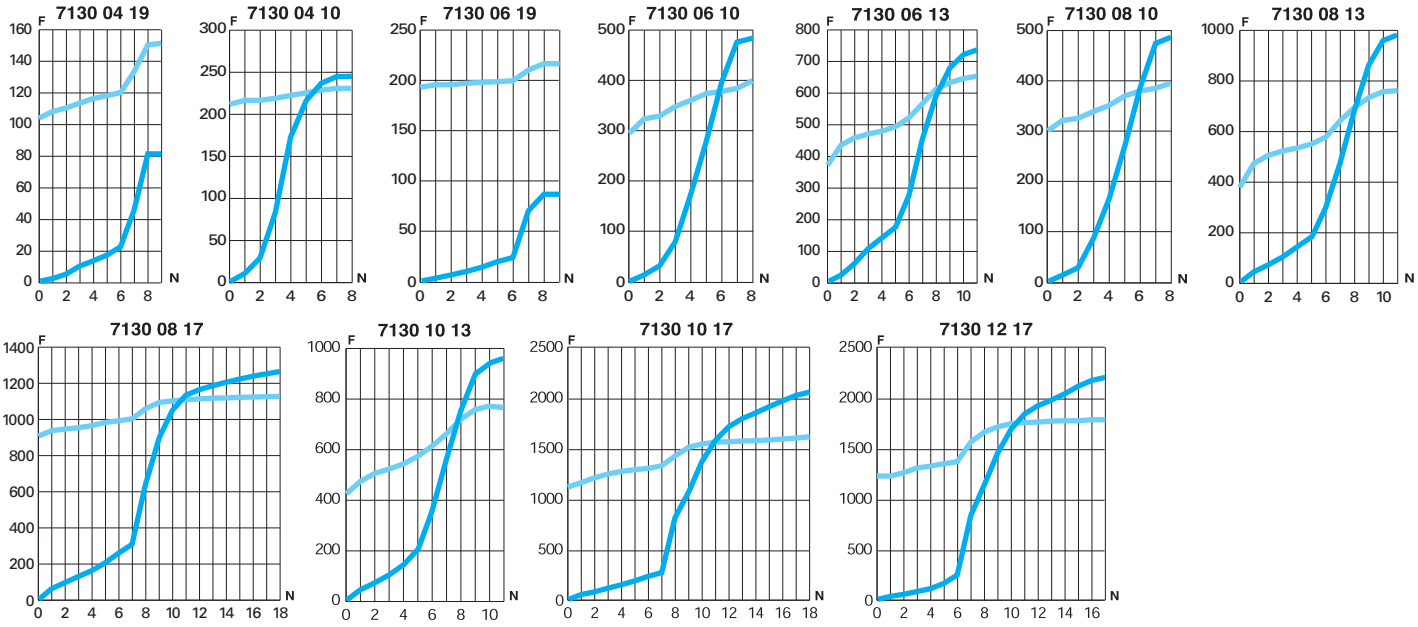


### 7045






### 7130




6 bar
return
adjustment

**F** : flow in Nl/min

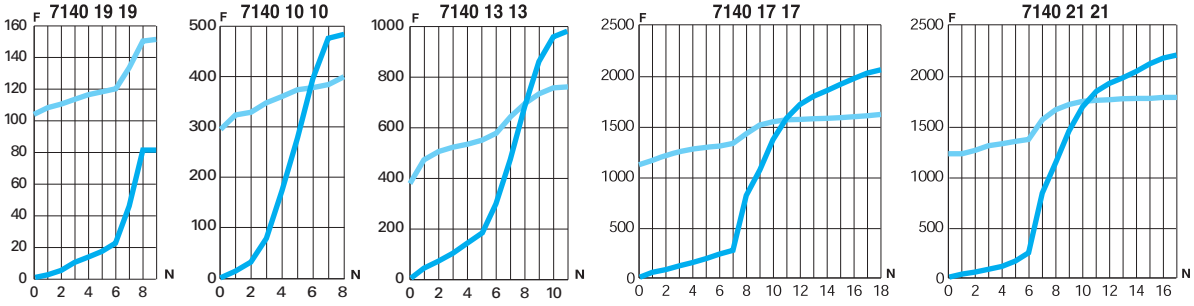
**N** : number of turns

# flow control regulators

## flow characteristics (at 6 bar)

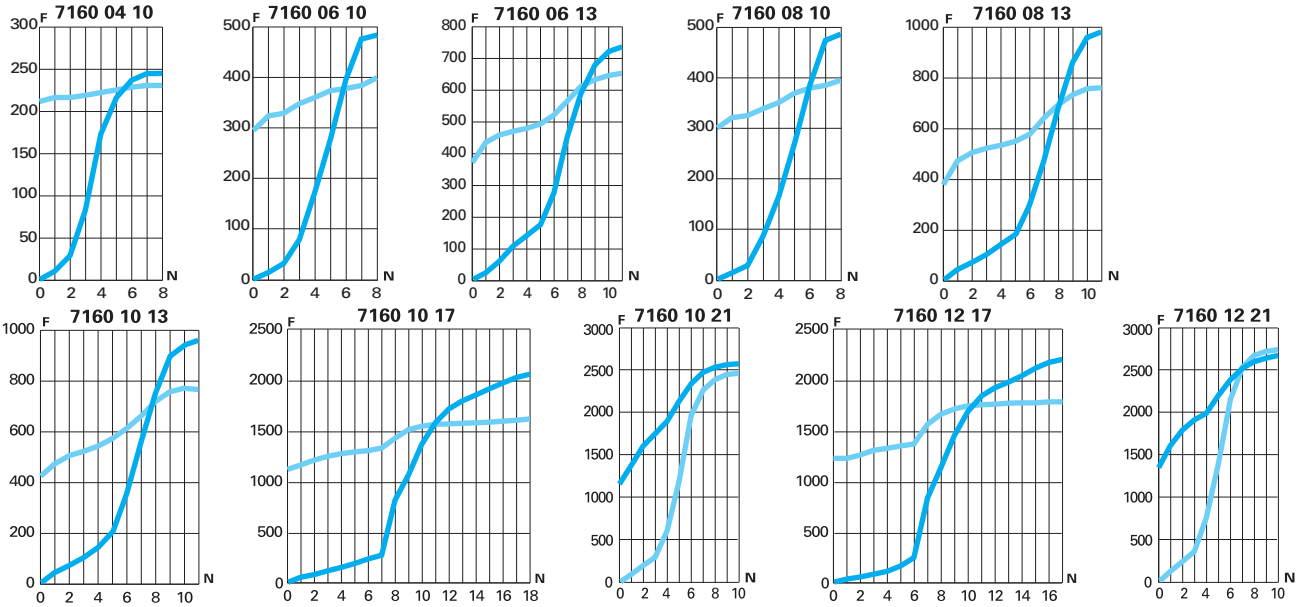


### 7140



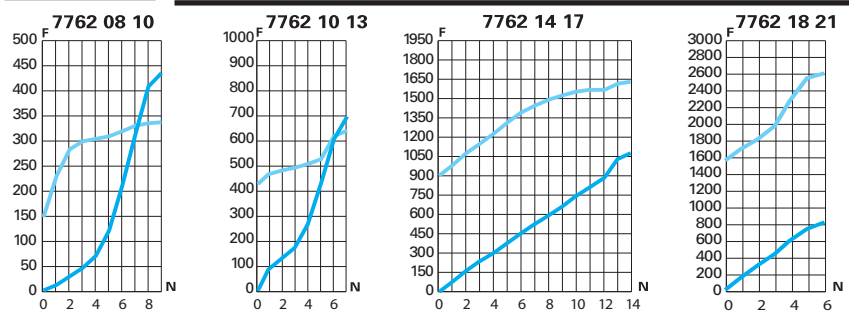



### 7160






### 7762




6 bar
return
adjustment

**F** : flow in Nl/min

**N** : number of turns

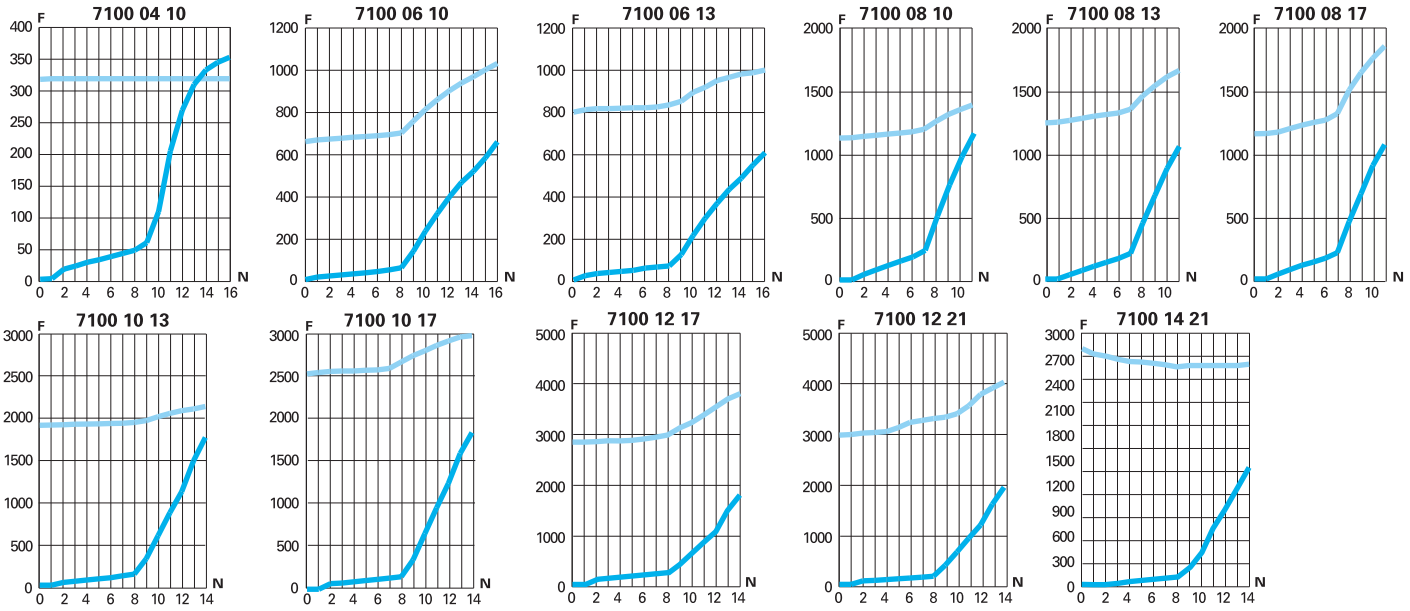
# flow control regulators

## flow characteristics (at 6 bar)

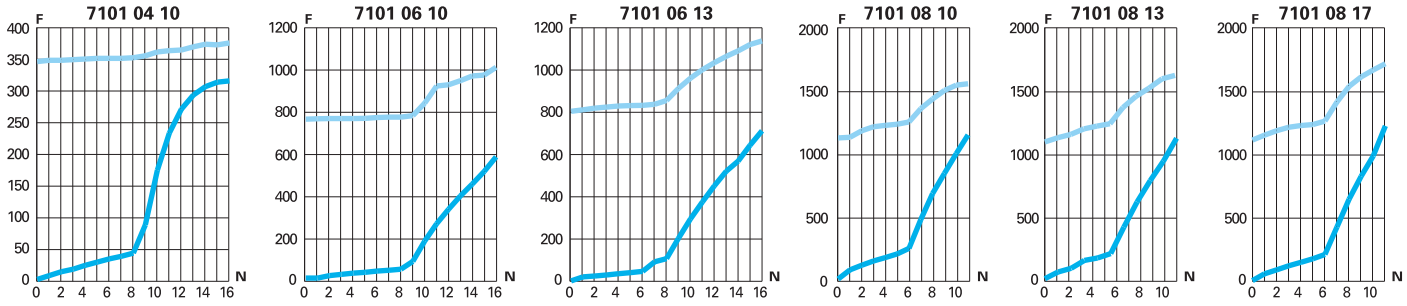


## 7100 - 7101

### 7100

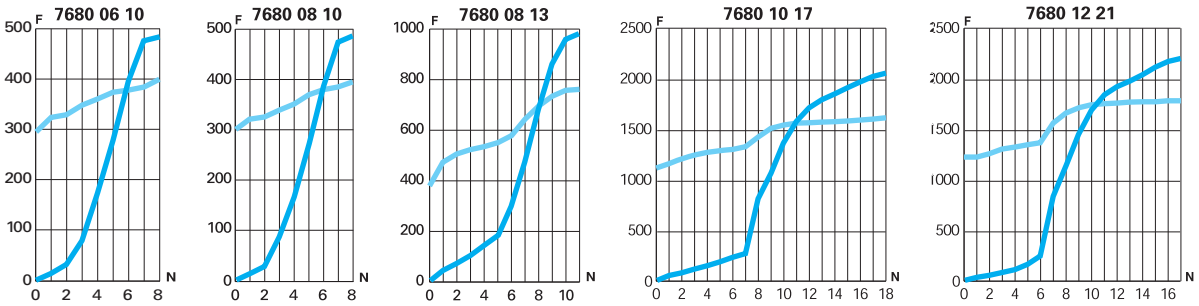



### 7101






## 7680




6 bar
return
adjustment

**F** : flow in Nl/min

**N** : number of turns

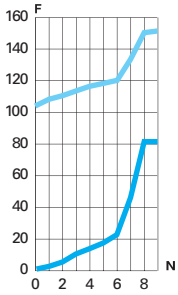
# flow control regulators

## flow characteristics (at 6 bar)

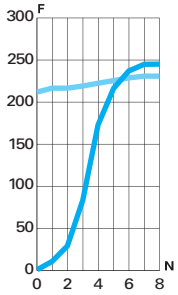


### 7180

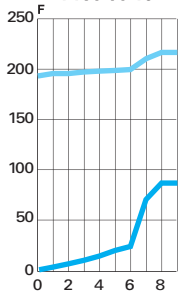
7180 04 19



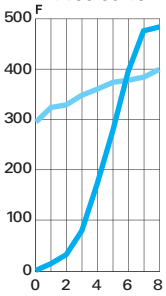

7180 04 10



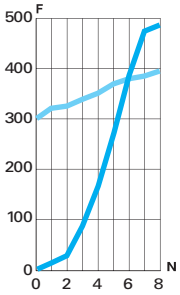

7180 06 19




7180 06 10




7180 08 10

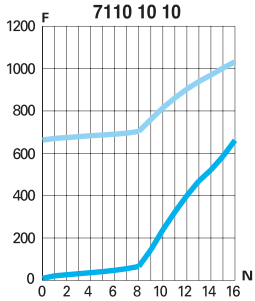




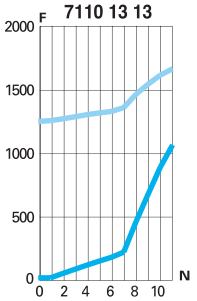

### 7110 - 7111

### 7110

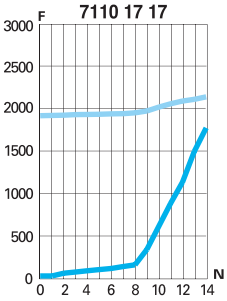
7110 10 10



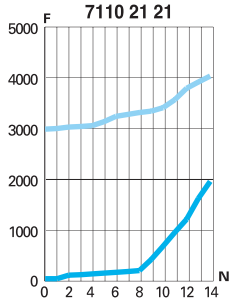

7110 13 13




7110 17 17

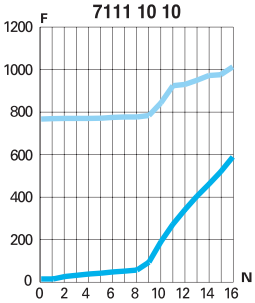



7110 21 21

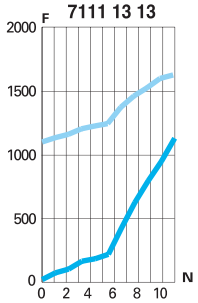



### 7111

7111 10 10



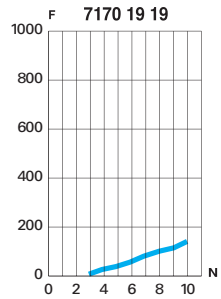

7111 13 13



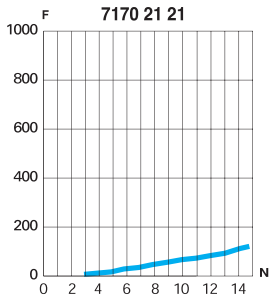



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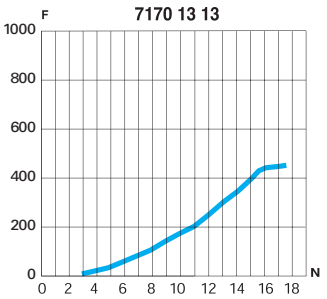
7170 19 19



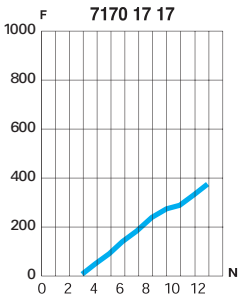

7170 21 21



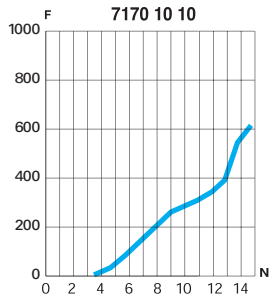

7170 13 13




7170 17 17




7170 10 10




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



**3626** Page C15



## 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



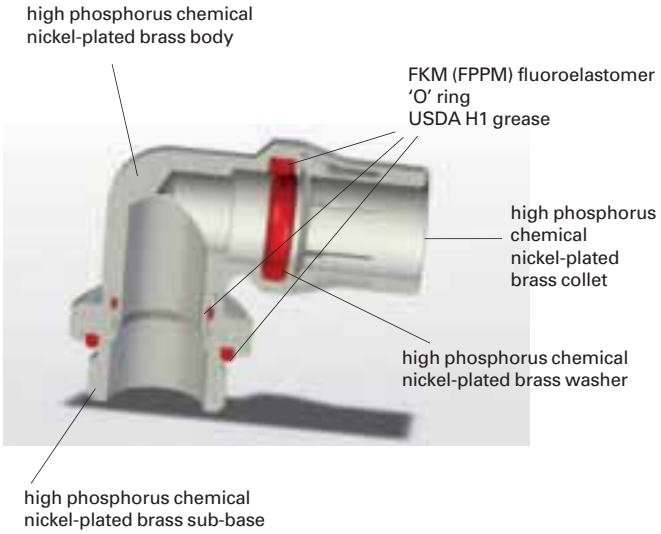
Its expertise in connection techniques and knowledge of market requirements enable Legris to propose an **improved range of LF 3600 push-in fittings** optimized for a greater number of **industrial, chemical, pharmaceutical and food applications**.

**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.

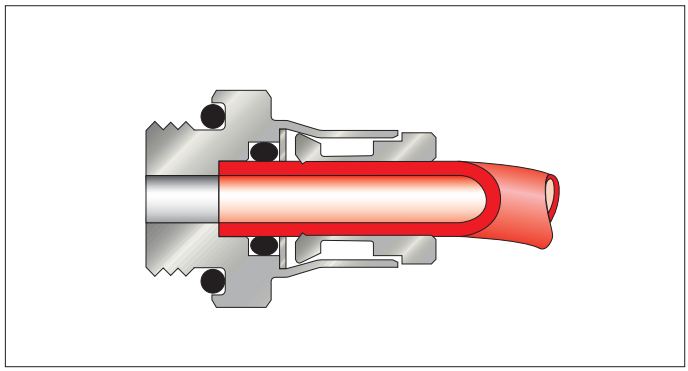



**All items in the LF 3600 range are silicone free**

| | | | | | | |
|---|---|---|---|---|---|---|
| **suitable fluids** | Compressed air<br>All liquids and gases compatible with the materials of the fitting.<br><br>Permanent contact with food fluids is not recommended. | | | | | |
| **working pressure** | maximum 30 bar<br>(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<br><br>**ring :** high phosphorus FDA chemical nickel-plated brass<br><br>**gripping collett :** high phosphorus FDA chemical nickel-plated brass<br><br>**sub-base :** high phosphorus FDA chemical nickel-plated brass<br><br>**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



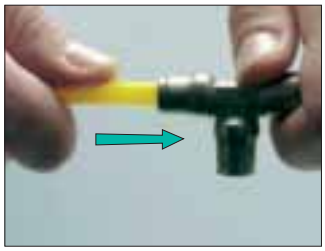


### wide range

- 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

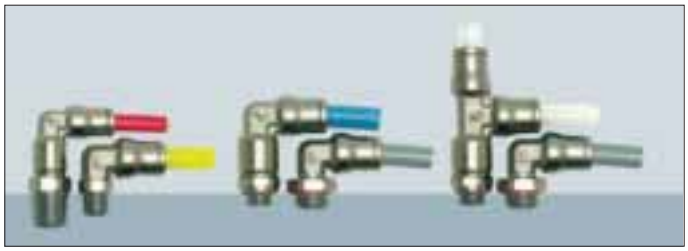
- **excellent resistance to abrasion** and **corrosion** due to high phosphorus chemical nickel-plating of individual brass components
- **excellent resistance** to high temperature, pressure and vacuum
- **full flow fluid passage**, minimal pressure drop
- **automatic sealing** of BSPP and metric versions 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

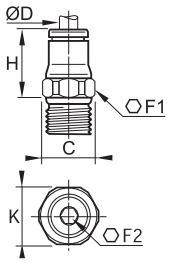
Legris has developed semi-standard LF 3600 models for specific appplications such as coffee machines. Do not hesitate to contact us with your specifications for further information.

***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**



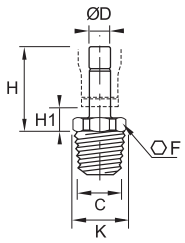

*internal hexagon*

| 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

**legris.com's plus points**



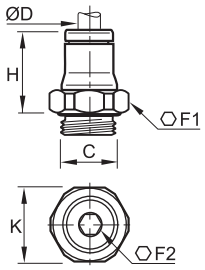
You will also find **LF 3600 push-in fittings** in our on-line catalogue of our web-site (for **inch tubes** and **NPT** threads).

**www.legris.com**

## 3601 male stud, BSP parallel and metric



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



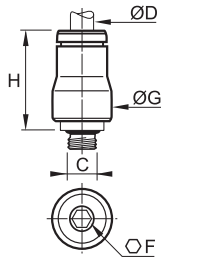

*internal hexagon*

| 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*

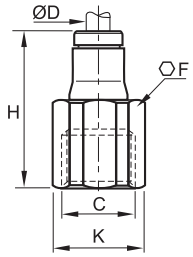
| ØD | C | | F | G | H | kg |
|---|---|---|---|---|---|---|
| 4 | M5x0.8 | 3681 04 19 | 2,5 | 10 | 16 | 0,005 |

= suitable compressed air in for food applications

## 3614 female stud, BSP parallel and metric



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

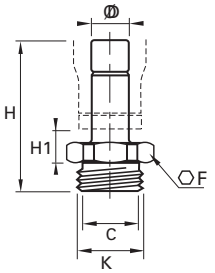



| ØD | C | | F | H | K | kg |
|---|---|---|---|---|---|---|
| 4 | M5x0.8 | 3614 04 19 | 10 | 22 | 11 | 0,011 |
| 4 | G1/8 | 3614 04 10 | 14 | 25 | 15 | 0,016 |
| 4 | G1/4 | 3614 04 13 | 17 | 29 | 18,5 | 0,026 |
| 6 | G1/8 | 3614 06 10 | 14 | 27,5 | 15 | 0,019 |
| 6 | G1/4 | 3614 06 13 | 17 | 31,5 | 18,5 | 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**

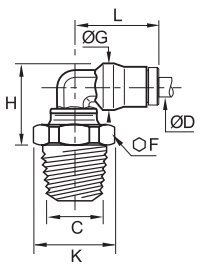



| ØD | C | | F | H | H1 | K | kg |
|---|---|---|---|---|---|---|---|
| 4 | M5x0.8 | 3631 04 19 | 13 | 25,5 | 7 | 14 | 0,003 |
| 4 | G1/8 | 3631 04 10 | 16 | 26,5 | 7 | 17,5 | 0,007 |
| 4 | G1/4 | 3631 04 13 | 8 | 25 | 7,5 | 8,7 | 0,011 |
| 6 | G1/8 | 3631 06 10 | 13 | 28 | 6,5 | 14 | 0,008 |
| 6 | G1/4 | 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**



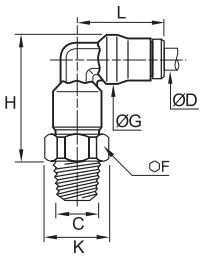

*fitting will orientate about the body for positioning purposes*

| 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*

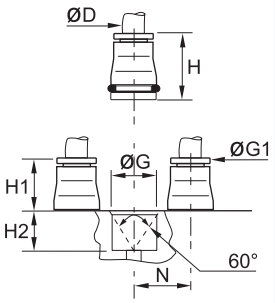
| ØD | C | | F | G | H | K | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 3629 04 10 | 10 | 10 | 24,5 | 11 | 18 | 0,016 |
| 6 | R1/8 | 3629 06 10 | 13 | 12 | 29,5 | 14 | 21,5 | 0,025 |
| 6 | R1/4 | 3629 06 13 | 14 | 12 | 30,5 | 15 | 21,5 | 0,031 |
| 8 | R1/8 | 3629 08 10 | 14 | 15 | 32,5 | 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 |

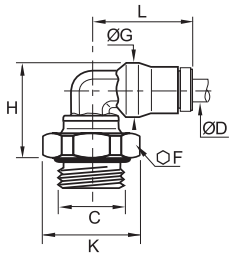
The use of this cartridge
- avoids the needs to cut threads
- permits the part to be press fitted
- enables instant tube connection and disconnection

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**



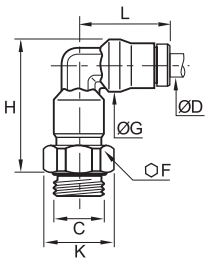

*fitting will orientate about the body for positioning purposes*

| 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*

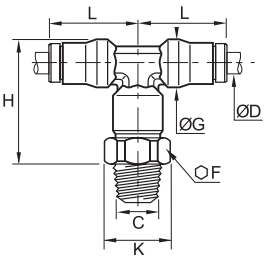
| ØD | C | | F | G | H | K | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5x0.8 | 3669 04 19 | 10 | 10 | 27,5 | 11 | 18 | 0,015 |
| 4 | G1/8 | 3669 04 10 | 13 | 10 | 25,5 | 14 | 18 | 0,017 |
| 6 | G1/8 | 3669 06 10 | 13 | 12 | 31 | 14 | 18 | 0,023 |
| 6 | G1/4 | 3669 06 13 | 16 | 12 | 30,5 | 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**



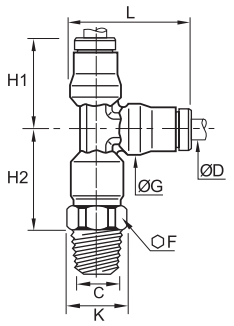

*fitting will orientate about the body for positioning purposes*

| 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**



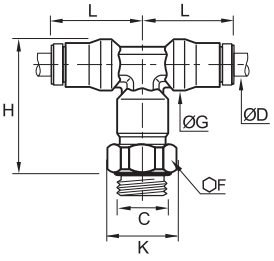

*fitting will orientate about the body for positioning purposes*

| 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**



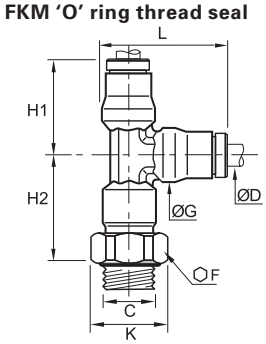

*fitting will orientate about the body for positioning purposes*

| 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*

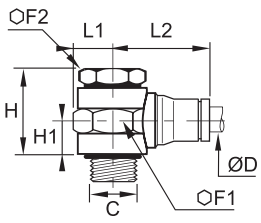
| ØD | C | | F | G | H1 | H2 | K | L | kg |
|---|---|---|---|---|---|---|---|---|---|
| 4 | M5x0.8 | 3693 04 19 | 10 | 10 | 18 | 22,5 | 11 | 23 | 0,020 |
| 4 | G1/8 | 3693 04 10 | 13 | 10 | 18 | 20,5 | 14 | 23 | 0,021 |
| 6 | G1/8 | 3693 06 10 | 13 | 12 | 21,5 | 25 | 14 | 28 | 0,033 |
| 6 | G1/4 | 3693 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

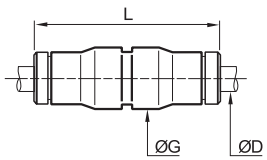
3618 06 10

product type — tube o.d. — thread code or second tube o.d.

## 3606 equal tube to tube connector



nickel-plated brass

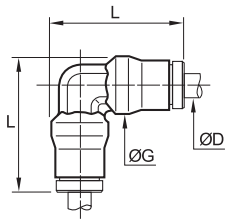



| ØD | | G | L | kg |
|---|---|---|---|---|
| 4 | 3606 04 00 | 10 | 30,5 | 0,010 |
| 6 | 3606 06 00 | 12 | 36,5 | 0,017 |
| 8 | 3606 08 00 | 15 | 37,5 | 0,021 |
| 10 | 3606 10 00 | 17,5 | 47,5 | 0,036 |
| 12 | 3606 12 00 | 19,5 | 50 | 0,046 |
| 14 | 3606 14 00 | 21,5 | 52,5 | 0,052 |

## 3602 equal elbow



nickel-plated brass

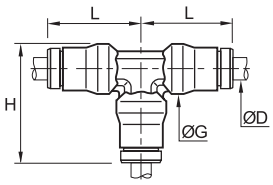



| ØD | | G | L | kg |
|---|---|---|---|---|
| 4 | 3602 04 00 | 10 | 23 | 0,011 |
| 6 | 3602 06 00 | 12 | 28 | 0,017 |
| 8 | 3602 08 00 | 15 | 31 | 0,023 |
| 10 | 3602 10 00 | 17,5 | 37,5 | 0,036 |
| 12 | 3602 12 00 | 19,5 | 40,5 | 0,046 |
| 14 | 3602 14 00 | 21,5 | 45 | 0,058 |

## 3604 equal tee



nickel-plated brass



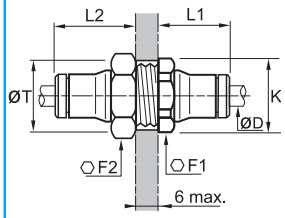

| ØD | | G | H | L | kg |
|---|---|---|---|---|---|
| 4 | 3604 04 00 | 10 | 23 | 18 | 0,015 |
| 6 | 3604 06 00 | 12 | 28 | 21,5 | 0,023 |
| 8 | 3604 08 00 | 15 | 31 | 23,5 | 0,032 |
| 10 | 3604 10 00 | 17,5 | 37,5 | 29 | 0,049 |
| 12 | 3604 12 00 | 19,5 | 40,5 | 31 | 0,065 |
| 14 | 3604 14 00 | 21,5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

= suitable for food applications

## 3616 equal bulkhead connector



nickel-plated brass

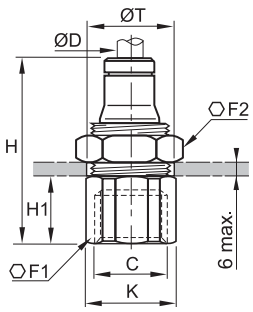



| ØD | | F1 | F2 | K | L1 | L2 | T | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 3616 04 00 | 13 | 14 | 14 | 14 | 20 | 12,5 | 0,019 |
| 6 | 3616 06 00 | 16 | 17 | 17,5 | 17 | 22 | 15 | 0,028 |
| 8 | 3616 08 00 | 18 | 19 | 19,5 | 18,5 | 23,5 | 17 | 0,036 |
| 10 | 3616 10 00 | 22 | 27 | 24 | 21,5 | 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

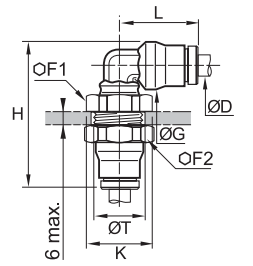



| ØD | | | F1 | F2 | H | H1 | K | T | kg |
|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 3636 04 10 | 14 | 14 | 30,5 | 11 | 15 | 13 | 0,025 |
| 6 | G1/8 | 3636 06 10 | 17 | 17 | 33 | 11 | 18,5 | 15 | 0,038 |
| 6 | G1/4 | 3636 06 13 | 17 | 17 | 37 | 15 | 18,5 | 15 | 0,033 |
| 8 | G1/8 | 3636 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 |

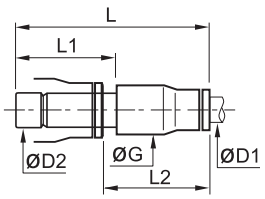
= suitable for food applications

# plug-in accessories

## 3666 plug-in reducer



nickel-plated brass

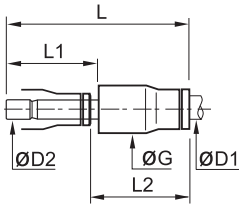



| ØD1 | ØD2 | | G | L | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|
| 4 | 6 | 3666 04 06 | 10 | 35 | 19,5 | 18 | 0,008 |
| 4 | 8 | 3666 04 08 | 10 | 35,5 | 20 | 18 | 0,010 |
| 6 | 8 | 3666 06 08 | 12 | 38 | 20 | 20,5 | 0,013 |
| 6 | 10 | 3666 06 10 | 12 | 43,5 | 25 | 21 | 0,015 |
| 8 | 10 | 3666 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

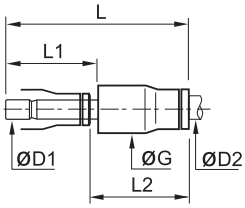



| ØD1 | ØD2 | | G | L | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|
| 6 | 4 | 3668 06 04 | 12 | 36 | 17 | 21,5 | 0,010 |

## 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 |

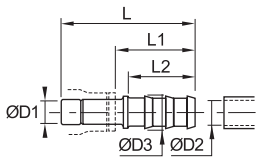
= suitable for food applications

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

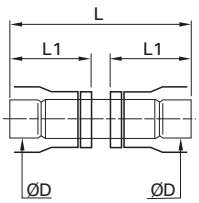



| ØD1 | ØD2 | ØD3 | | L | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|
| 4 | 3,2 | 5 | 3622 04 53 | 40,5 | 27 | 22,5 | 0,003 |
| 4 | 5 | 7 | 3622 04 05 | 40,5 | 27 | 22,5 | 0,004 |
| 6 | 5 | 7 | 3622 06 05 | 43 | 27 | 22,5 | 0,006 |
| 8 | 6,3 | 8,3 | 3622 08 56 | 42 | 25 | 22,5 | 0,008 |
| 8 | 8 | 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

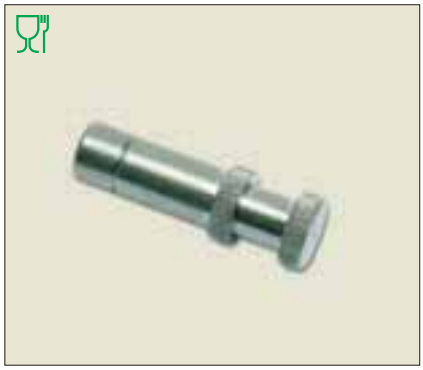


nickel-plated brass

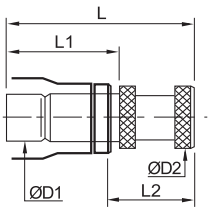



| ØD | | L | L1 | kg |
|---|---|---|---|---|
| 4 | 3620 04 00 | 31 | 14 | 0,002 |
| 6 | 3620 06 00 | 36,5 | 17 | 0,005 |
| 8 | 3620 08 00 | 37,5 | 17,5 | 0,007 |
| 10 | 3620 10 00 | 47,5 | 22,5 | 0,010 |
| 12 | 3620 12 00 | 49,5 | 23,5 | 0,014 |
| 14 | 3620 14 00 | 53 | 25 | 0,017 |

## 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:**

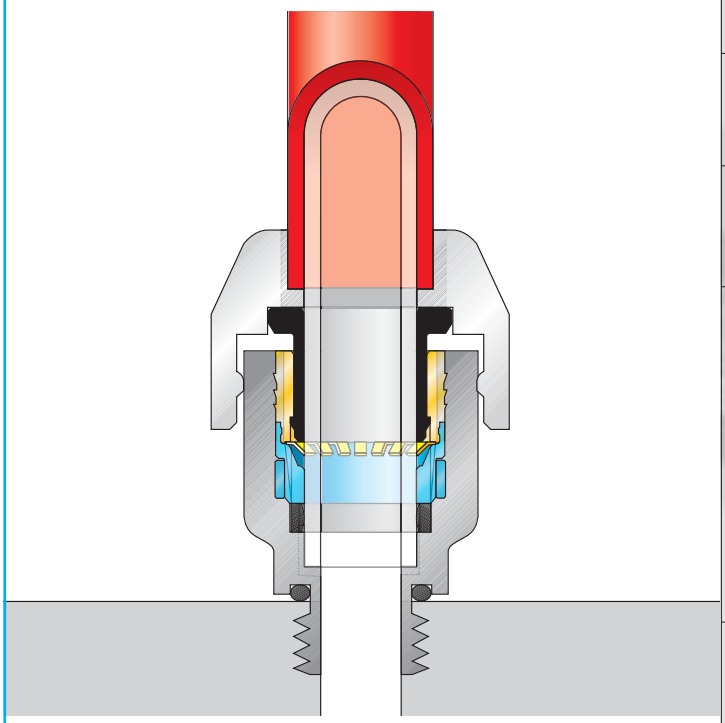
- **time saving** during assembly, due to manual instant connection/disconnection, no tools required
- **excellent protection** against sparks thanks to the integral cover
- full flow fluid passage
- **lightweight**, reduces the stresses encountered on robotic equipment

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.

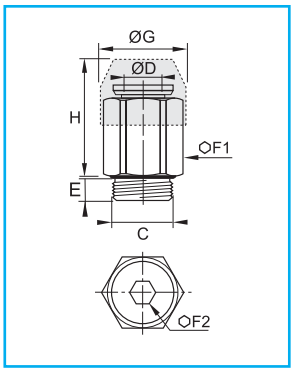


**All items in the LF 6000 range are guaranteed SILICONE FREE**

| | | | | | | |
|---|---|---|---|---|---|---|
| **suitable fluids** | compressed air, water, cooling liquids | | | | | |
| **working pressure** | compressed air : 10 bar maxi<br>water,<br>cooling liquids : 6 bar maxi | | | | | |
| **vacuum capability** | vacuum of 755 mmHg (99% vacuum) | | | | | |
| **working temperature** | compressed air : 0° to +60°C<br>water,<br>cooling liquids : +3° to +40°C | | | | | |
| **materials** | **body :** polymer, conforming to UL94 VO standard<br>**'O' ring :** FPM<br>**sub-base seal:** HNBR (nitrile)<br>**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

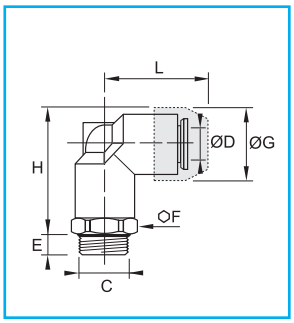





| ØD | C | | E | F1 | F2 | G | H | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | M5x0,8 | 6001 06 19 | 4,5 | 13 | 2,5 | 17 | 19,5 | 0,010 |
| 6 | G1/8 | 6001 06 10 | 5 | 13 | 4 | 17 | 17,5 | 0,011 |
| 6 | G1/4 | 6001 06 13 | 5,5 | 16 | 4 | 17 | 17,5 | 0,021 |
| 8 | G1/8 | 6001 08 10 | 5,5 | 16 | 5 | 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

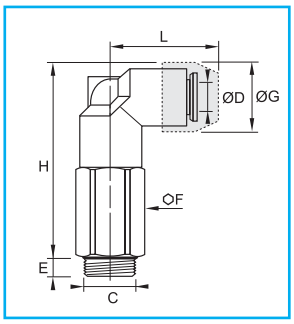





| ØD | C | | E | F | G | H | L | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 6099 06 10 | 4,5 | 14 | 17 | 30,5 | 25 | 0,018 |
| 6 | G1/4 | 6099 06 13 | 5,5 | 16 | 17 | 30,5 | 25 | 0,023 |
| 8 | G1/8 | 6099 08 10 | 4,5 | 16 | 19 | 37 | 27,5 | 0,029 |
| 8 | G1/4 | 6099 08 13 | 5,5 | 16 | 19 | 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

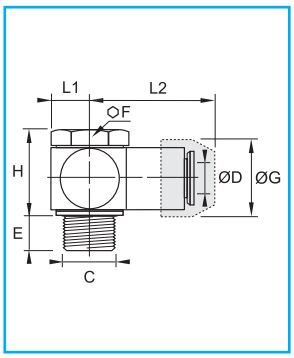





| ØD | C | | E | F | G | H | L | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 6069 06 10 | 4,5 | 14 | 17 | 49,5 | 25 | 0,052 |
| 6 | G1/4 | 6069 06 13 | 5,5 | 16 | 17 | 51 | 25 | 0,054 |
| 8 | G1/8 | 6069 08 10 | 4,5 | 16 | 19 | 62 | 27,5 | 0,114 |
| 8 | G1/4 | 6069 08 13 | 5,5 | 16 | 19 | 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

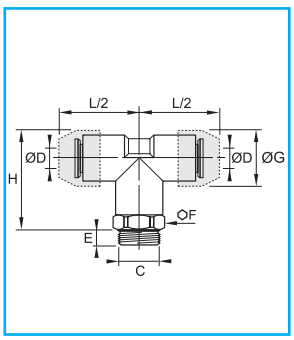





| ØD | C | | E | F | G | H | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 6018 06 10 | 8 | 14 | 17 | 21,6 | 8 | 28 | 0,022 |
| 6 | G1/4 | 6018 06 13 | 10,5 | 17 | 17 | 21,5 | 10,5 | 29,5 | 0,024 |
| 8 | G1/8 | 6018 08 10 | 8 | 14 | 19 | 21,6 | 8 | 30,5 | 0,029 |
| 8 | G1/4 | 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

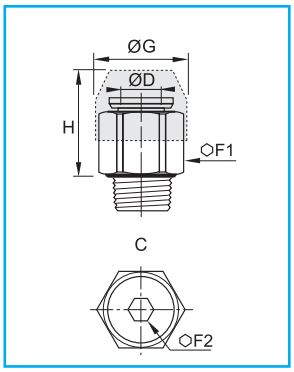





| ØD | C | | E | F | ØG | H | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 6098 06 10 | 4,5 | 14 | 17 | 31,5 | 25 | 0,023 |
| 6 | G1/4 | 6098 06 13 | 5,5 | 16 | 17 | 31,5 | 25 | 0,030 |
| 8 | G1/8 | 6098 08 10 | 4,5 | 16 | 19 | 37 | 27,5 | 0,031 |
| 8 | G1/4 | 6098 08 13 | 5,5 | 16 | 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

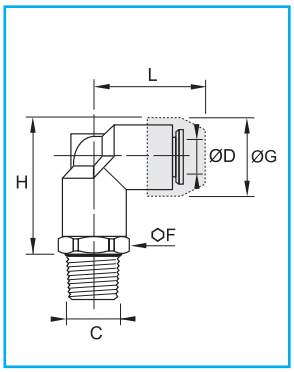





| ØD | C | | F1 | F2 | G | H | kg |
|---|---|---|---|---|---|---|---|
| 6 | R1/8 | 6005 06 10 | 13 | 4 | 17 | 16,8 | 0,011 |
| 6 | R1/4 | 6005 06 13 | 14 | 4 | 17 | 18 | 0,018 |
| 8 | R1/8 | 6005 08 10 | 15 | 5 | 20 | 21,5 | 0,200 |
| 8 | R1/4 | 6005 08 13 | 15 | 6 | 20 | 22,5 | 0,020 |
| 8 | R3/8 | 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

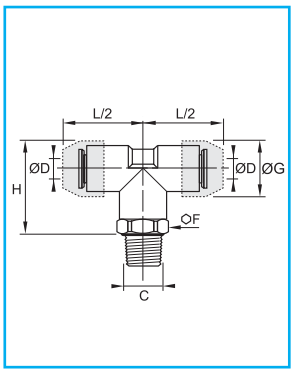





| ØD | C | | F1 | F2 | G | H | L | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | R1/8 | 6009 06 10 | 14 | 17 | 31,5 | 25 | 25 | 0,018 |
| 6 | R1/4 | 6009 06 13 | 14 | 17 | 32 | 25 | 25 | 0,023 |
| 8 | R1/8 | 6009 08 10 | 16 | 20 | 33 | 27,5 | 27,5 | 0,029 |
| 8 | R1/4 | 6009 08 13 | 16 | 20 | 33 | 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



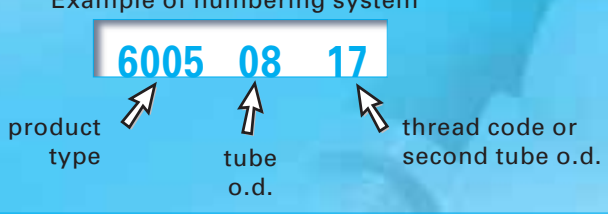



| ØD | C | | F | G | H | L/2 | kg |
|---|---|---|---|---|---|---|---|
| 6 | R1/8 | 6008 06 10 | 14 | 17 | 31,5 | 25 | 0,023 |
| 6 | R1/4 | 6008 06 13 | 14 | 17 | 32 | 25 | 0,030 |
| 8 | R1/8 | 6008 08 10 | 16 | 20 | 34 | 27,5 | 0,031 |
| 8 | R1/4 | 6008 08 13 | 16 | 20 | 33 | 27,5 | 0,035 |
| 10 | R1/4 | 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:

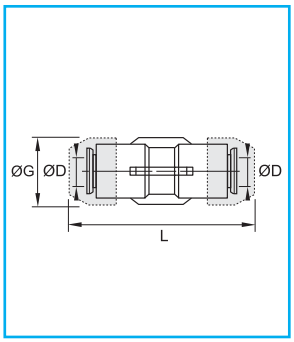
- product type
- the outside diameter of the tube
- the thread code or second tube o.d.

Example of numbering system



## 6006 equal tube to tube connector

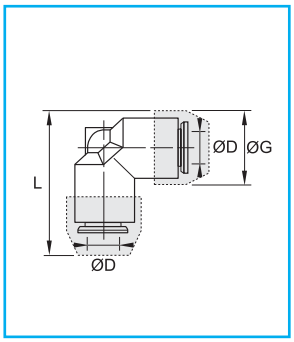





| ØD | | G | L | kg |
|---|---|---|---|---|
| 6 | 6006 06 00 | 13,5 | 50 | 0,008 |
| 8 | 6006 08 00 | 16 | 55 | 0,011 |
| 10 | 6006 10 00 | 21 | 58 | 0,028 |
| 12 | 6006 12 00 | 23,5 | 65 | 0,040 |

## 6002 equal elbow

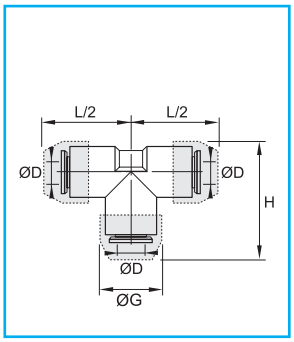





| ØD | | G | L | kg |
|---|---|---|---|---|
| 6 | 6002 06 00 | 17 | 33,5 | 0,008 |
| 8 | 6002 08 00 | 19 | 37 | 0,011 |
| 10 | 6002 10 00 | 24 | 46 | 0,028 |
| 12 | 6002 12 00 | 26,5 | 51,5 | 0,040 |

## 6004 equal tee

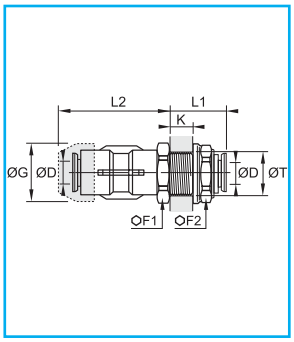





| ØD | | G | H | L/2 | kg |
|---|---|---|---|---|---|
| 6 | 6004 06 00 | 17 | 33,5 | 25 | 0,017 |
| 8 | 6004 08 00 | 19 | 37 | 27,5 | 0,020 |
| 10 | 6004 10 00 | 24 | 46 | 34 | 0,044 |
| 12 | 6004 12 00 | 26,5 | 51,5 | 38,5 | 0,063 |

## 6016 bulkhead connector

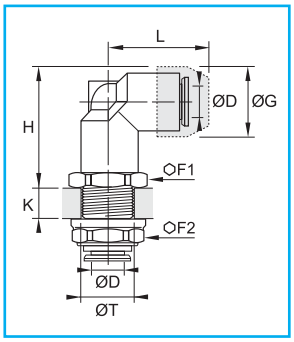





| ØD | | F1 | F2 | G | K maxi | L1 | L2 | T mini | kg |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 6016 06 00 | 17 | 15 | 17 | 8 | 19 | 47 | 12,5 | 0,025 |
| 8 | 6016 08 00 | 19 | 18 | 19 | 8,5 | 20,5 | 51 | 15,5 | 0,044 |
| 10 | 6016 10 00 | 22 | 22 | 24 | 8 | 22,5 | 54 | 18,5 | 0,072 |
| 12 |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

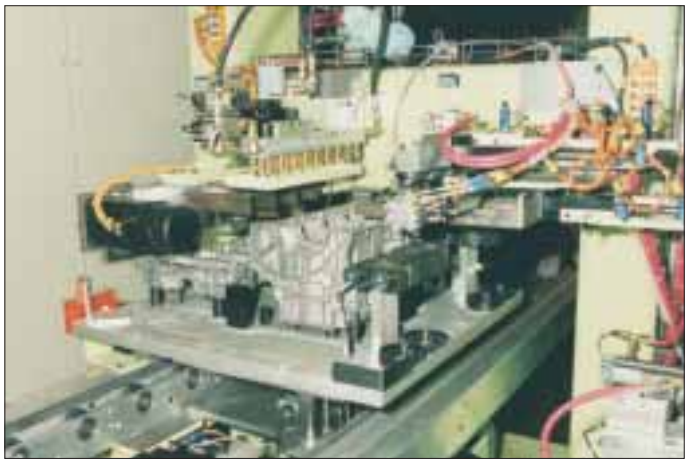
## 6039 equal bulkhead elbow






| 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



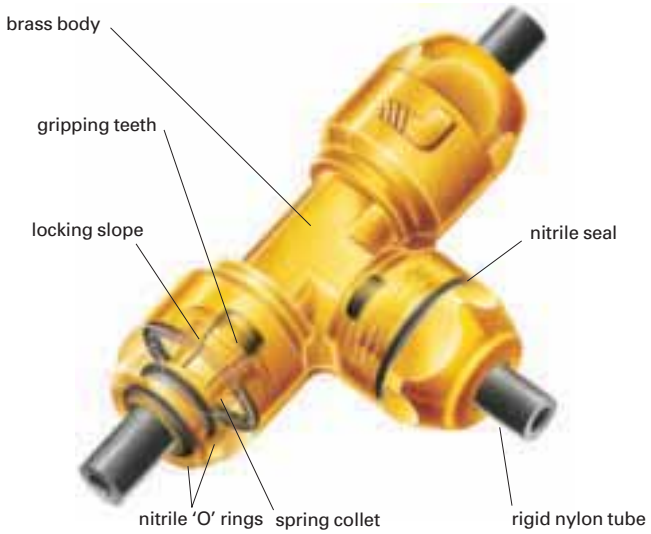


This range of fittings has been specifically designed for all applications that require perfect sealing and excellent resistance to pressure and temperature.
It's strong construction enables this range to be used in mechanically demanding environments.
- sealing is ensured by 2 "O" rings in addition 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<br>(See table on page C22).<br>**For use at higher pressure, please consult us.** |
| **working temperature** | -40°C to +120°C<br>dependent upon the material and the O.D. of the tube used. (See table on page C22). |
| **materials of construction** | brass<br>nitrile rubber 'O' rings and seals. |

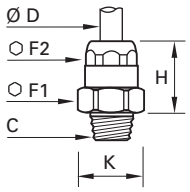
**maximum/minimum tightening torques**

| **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

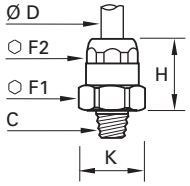



| ØD | C | | F1 | F2 | H | K | kg |
|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 6105 04 10 | 13 | 11 | 14,5 | 14 | 0,014 |
| 4 | R1/4 | 6105 04 13 | 14 | 11 | 12,5 | 15 | 0,018 |
| 6 | R1/8 | 6105 06 10 | 17 | 14 | 17,5 | 18,5 | 0,025 |
| 6 | R1/4 | 6105 06 13 | 17 | 14 | 16,5 | 18,5 | 0,028 |

## 6105 male stud fitting with metric taper thread



brass

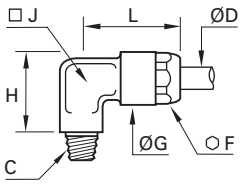



| ØD | C | | F1 | F2 | H | K | kg |
|---|---|---|---|---|---|---|---|
| 4 | M6x1 | 6105 04 52 | 13 | 11 | 16,5 | 14 | 0,013 |
| 4 | M8x1 | 6105 04 56 | 13 | 11 | 14,5 | 14 | 0,012 |
| 4 | M8x1,25 | 6105 04 57 | 13 | 11 | 14,5 | 14 | 0,012 |
| 4 | M10x1 | 6105 04 60 | 13 | 11 | 14,5 | 14 | 0,014 |
| 6 | 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

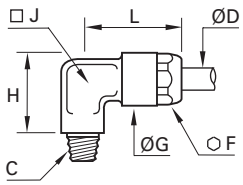



| ØD | C | | F | G | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 6179 04 10 | 11 | 12,5 | 15,5 | 6 | 20 | 0,016 |
| 4 | R1/4 | 6179 04 13 | 11 | 12,5 | 17 | 6 | 20 | 0,023 |
| 6 | R1/8 | 6179 06 10 | 14 | 16 | 18 | 8 | 24,5 | 0,029 |
| 6 | R1/4 | 6179 06 13 | 14 | 16 | 19 | 8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

## 6179 male stud elbow with metric taper thread



brass



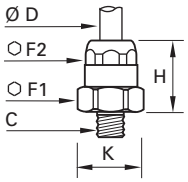

| ØD | C | | F | G | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M6x1 | 6179 04 52 | 11 | 12,5 | 14,5 | 6 | 20 | 0,015 |
| 4 | M8x1 | 6179 04 56 | 11 | 12,5 | 15 | 6 | 20 | 0,015 |
| 4 | M8x1,25 | 6179 04 57 | 11 | 12,5 | 15 | 6 | 20 | 0,015 |
| 4 | M10x1 | 6179 04 60 | 11 | 12,5 | 15,5 | 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

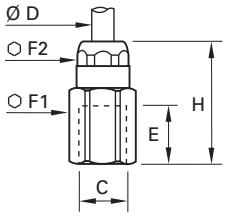



| ØD | C | | F1 | F2 | H | K | kg |
|---|---|---|---|---|---|---|---|
| 4 | M10x1 | 6101 04 60 | 13 | 11 | 14 | 14 | 0,014 |
| 6 | M10x1 | 6101 06 60 | 17 | 14 | 17,5 | 18,5 | 0,025 |
| 6 | M12x1 | 6101 06 65 | 17 | 14 | 16,5 | 18,5 | 0,024 |

## 6114 female stud fitting with metric parallel thread



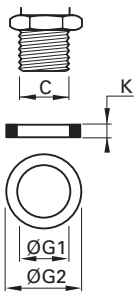
brass




| 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

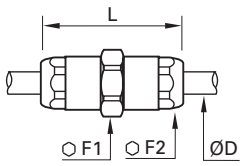
**Working pressure/temperature dependant upon the tube used**

| | -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

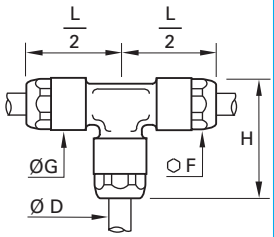



| ØD | | F1 | F2 | L | kg |
|---|---|---|---|---|---|
| 4 | 6106 04 00 | 13 | 11 | 34 | 0,025 |
| 6 | 6106 06 00 | 17 | 14 | 37 | 0,042 |
| 8 | 6106 08 00 | 19 | 17 | 43 | 0,069 |

## 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 |

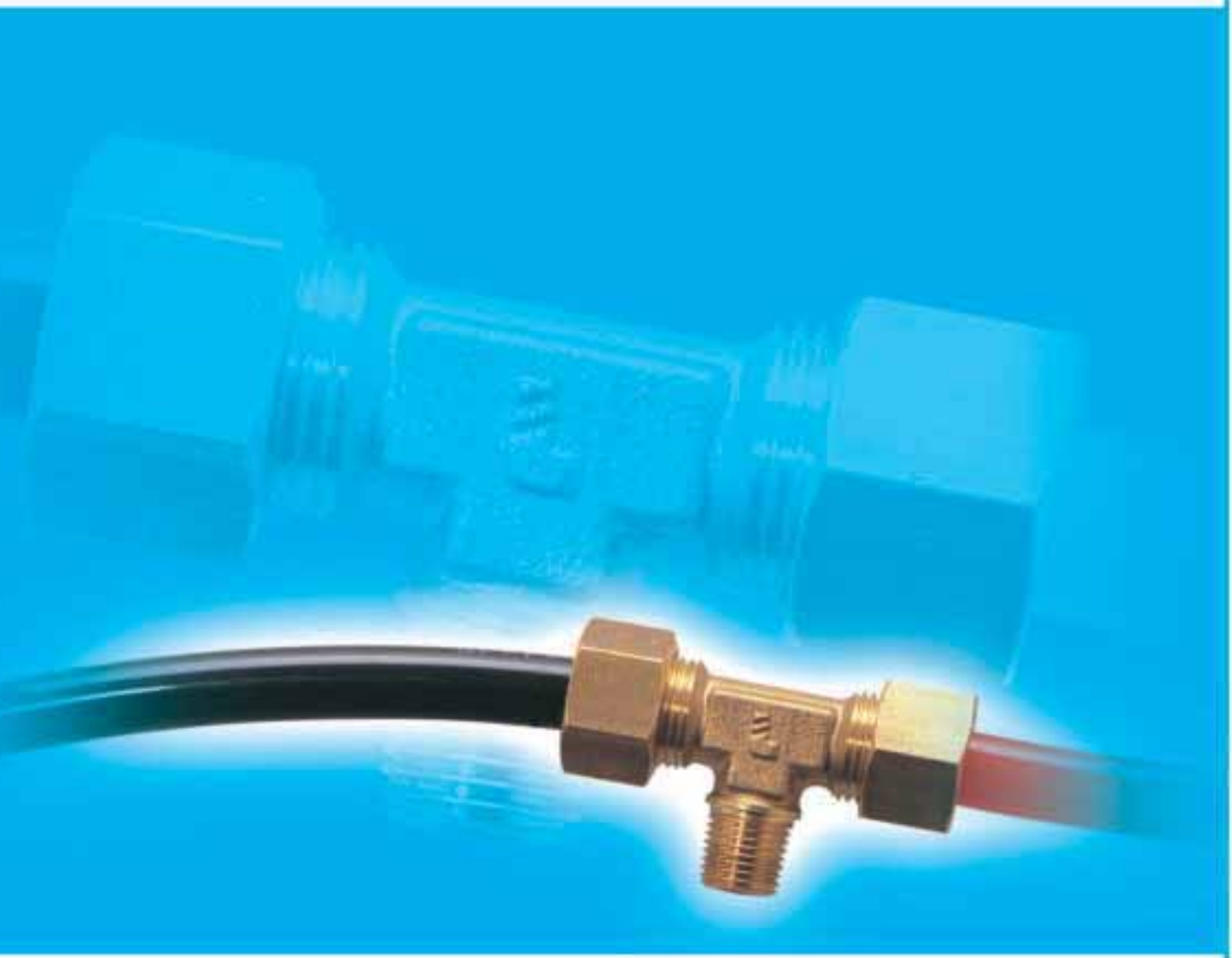
The **Legris** push in system for **centralized lubrication** is designed for use with **various plastic tubing** found in sectionM :

- **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





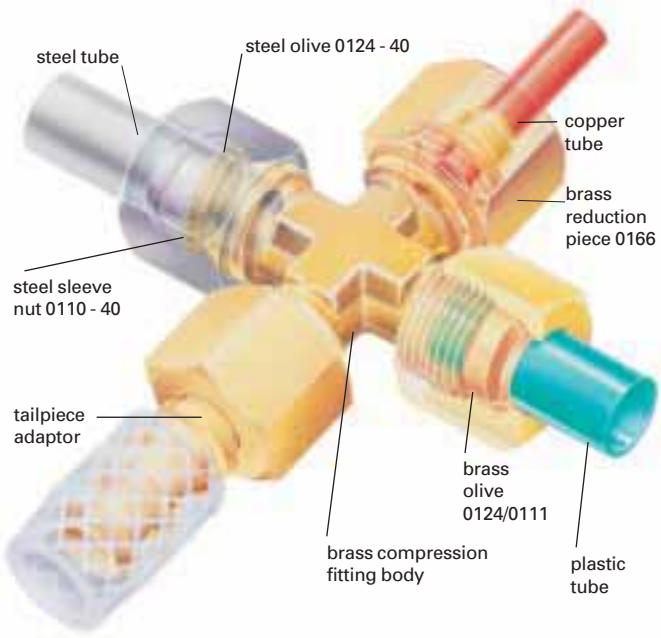
The range is called universal as it offers the maximum number of direct fitting alternatives with the minimum number of components. Tube threading and soldering are unnecessary. Universal brass compression fittings are designed to solve all fluid distribution problems and provide a complete system of 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

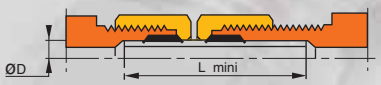
Details of fittings specifications for use with copper, brass, steel or nylon tubing can be found on page D4 and D5 of this section. Please consult us regarding applications which include thermal shocks or excessive vibration.




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

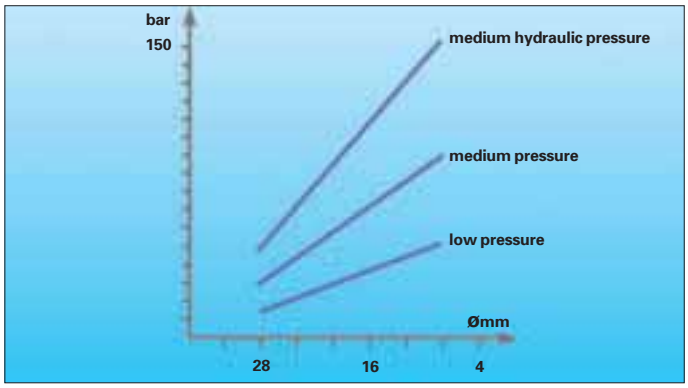
| Ø tube o.d. | corresponding BSP thread | maximum passage (mm) |
|---|---|---|
| 4-5-6 | G1/8 | 4 |
| 6-8-10 | G1/4 | 7 |
| 10-12-14 | G3/8 | 11 |
| 14-15-16-18 | G1/2 | 14 |
| 18-20-22 | G3/4 | 18 |
| 22-25-28 | G1“ | 24 |

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**<br>'cold drawn' from straight bars | **steel tube**<br>'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

## stud couplings

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taper
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**0105**
NPT
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**0101**
metric
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parallel
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parallel
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**0109**
taper
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**0199**
parallel
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parallel
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## tube-to-tube couplings

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**0116**
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## complementary fittings

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**0124...40**
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**0110...60**
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**0110...70**
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## accessories

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**0133...39**
parallel
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**0220...39**
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**0120**
taper
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**0112**
metric
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**0128...39**
parallel
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**0151**
parallel
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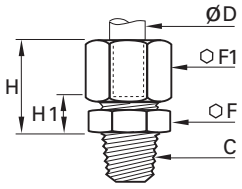


**0168...39**
parallel
Page D24

## 0105 male stud coupling , BSP taper thread



brass



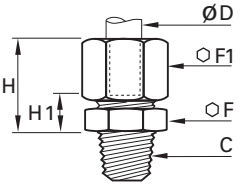

| ØD | C | | F | F1 | H maxi | H1 | kg |
|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 0105 04 10 | 10 | 10 | 17 | 7 | 0,013 |
| 5 | R1/8 | 0105 05 10 | 11 | 12 | 17,5 | 7,5 | 0,017 |
| 5 | R1/4 | 0105 05 13 | 14 | 12 | 17,5 | 7,5 | 0,022 |
| 6 | R1/8 | 0105 06 10 | 11 | 13 | 18 | 7,5 | 0,017 |
| 6 | 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

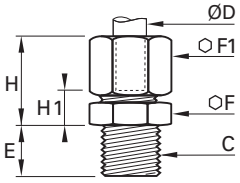



| ØD | C | | F | F1 | H maxi | H1 | kg |
|---|---|---|---|---|---|---|---|
| 6 | 1/8 | 0105 06 11 | 11 | 13 | 18 | 7,5 | 0,018 |
| 6 | 1/4 | 0105 06 14 | 14 | 13 | 18 | 7,5 | 0,028 |
| 8 | 1/8 | 0105 08 11 | 13 | 14 | 21 | 7 | 0,021 |
| 8 | 1/4 | 0105 08 14 | 14 | 14 | 18,5 | 7 | 0,026 |
| 10 | 1/4 | 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

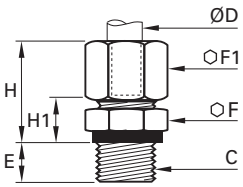



| ØD | C | | E | F | F1 | H maxi | H1 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M7x1 | 0101 04 55 | 6,5 | 10 | 10 | 16,5 | 7,5 | 0,013 |
| 4 | M8x1 | 0101 04 56 | 6,5 | 11 | 10 | 16,5 | 7,5 | 0,013 |
| 5 | M8x1 | 0101 05 56 | 6,5 | 11 | 12 | 17,5 | 8 | 0,016 |
| 5 | M10x1 | 0101 05 60 | 6,5 | 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



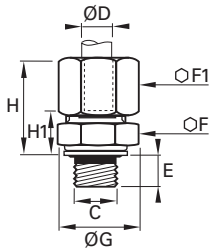

| ØD | C | | E | F | F1 | H maxi | H1 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5X0,8 | 0101 04 19 | 5 | 10 | 10 | 16,5 | 8 | 0,012 |
| 4 | G1/8 | 0101 04 10 | 6,5 | 13 | 10 | 16,5 | 8 | 0,017 |
| 5 | G1/8 | 0101 05 10 | 6,5 | 13 | 12 | 17,5 | 8,5 | 0,019 |
| 6 | G1/8 | 0101 06 10 | 6,5 | 13 | 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

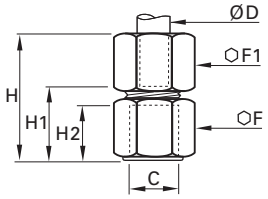



| ØD | C | | E | F | F1 | G | H | H1 | kg |
|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 0101 04 10 39 | 5,5 | 13 | 10 | 14 | 17,5 | 9 | 0,017 |
| 5 | G1/8 | 0101 05 10 39 | 5,5 | 13 | 12 | 14 | 18,5 | 9,5 | 0,019 |
| 6 | G1/8 | 0101 06 10 39 | 5,5 | 13 | 13 | 14 | 19 | 9,5 | 0,022 |
| 6 | 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

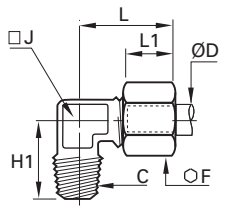



| ØD | C | | F | F1 | H maxi | H1 | H2 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 0114 04 10 | 14 | 10 | 26 | 16,5 | 9,5 | 0,021 |
| 4 | G1/4 | 0114 04 13 | 17 | 10 | 30 | 20,5 | 13,5 | 0,029 |
| 5 | G1/8 | 0114 05 10 | 14 | 12 | 28 | 17 | 9,5 | 0,024 |
| 5 | G1/4 | 0114 05 13 | 17 | 12 | 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**



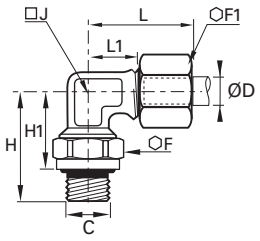

| ØD | C | | F | H1 | J | L maxi | L1 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 0109 04 10 | 10 | 17 | 8 | 19 | 9,5 | 0,017 |
| 4 | R1/4 | 0109 04 13 | 10 | 20 | 10 | 19 | 11 | 0,024 |
| 5 | R1/8 | 0109 05 10 | 12 | 17,5 | 8 | 21 | 11 | 0,019 |
| 5 | R1/4 | 0109 05 13 | 12 | 21,5 | 10 | 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**



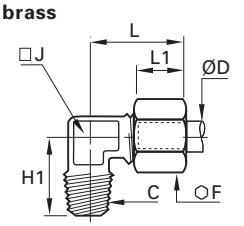

*the body will orientate for positioning purposes*

| 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**

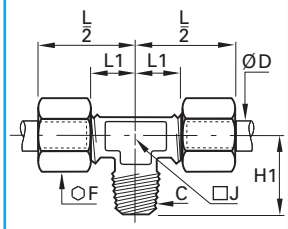



| ØD | C | | F | H1 | J | L maxi | L1 | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | 1/8 | 0109 06 11 | 13 | 18 | 8 | 22 | 11 | 0,021 |
| 6 | 1/4 | 0109 06 14 | 13 | 21,5 | 10 | 22 | 12 | 0,030 |
| 8 | 1/8 | 0109 08 11 | 14 | 18,5 | 10 | 28 | 15 | 0,028 |
| 8 | 1/4 | 0109 08 14 | 14 | 22 | 10 | 28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



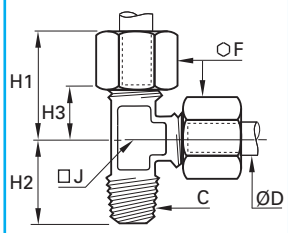

| ØD | C | | F | H1 | J | L/2 | L1 | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 0108 04 10 | 10 | 17 | 8 | 19 | 9,5 | 0,026 |
| 5 | R1/8 | 0108 05 10 | 12 | 17,5 | 8 | 21 | 11 | 0,031 |
| 6 | R1/8 | 0108 06 10 | 13 | 18 | 8 | 22 | 11 | 0,033 |
| 6 | R1/4 | 0108 06 13 | 13 | 21,5 | 10 | 27 | 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



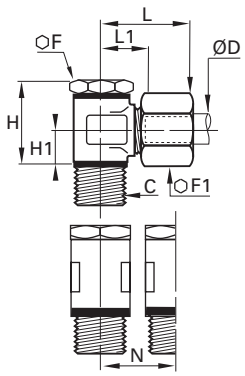

| ØD | C | | F | H1 maxi | H2 | H3 | J | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 0103 04 10 | 10 | 19 | 17 | 9,5 | 8 | 0,026 |
| 5 | R1/8 | 0103 05 10 | 12 | 21 | 17,5 | 11 | 8 | 0,031 |
| 6 | R1/8 | 0103 06 10 | 13 | 22 | 18 | 11 | 8 | 0,031 |
| 6 | R1/4 | 0103 06 13 | 13 | 27 | 21,5 | 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**



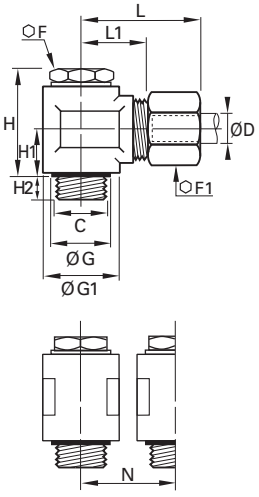

| ØD | C | | F | F1 | H | H1 | L maxi | L1 | N mini | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 0118 04 10 | 14 | 10 | 24 | 9,5 | 24 | 14,5 | 17,5 | 0,039 |
| 5 | G1/8 | 0118 05 10 | 14 | 12 | 24 | 9,5 | 25 | 14,5 | 17,5 | 0,042 |
| 5 | G1/4 | 0118 05 13 | 17 | 12 | 25 | 10 | 26 | 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



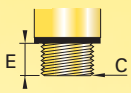
**brass**
**with bi-material seal**




| 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

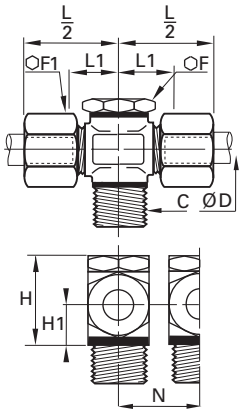



| C | G1/8 | G1/4 | G3/8 | G1/2 | G3/4 |
|---|---|---|---|---|---|
| E | 4,5 | 6 | 8 | 9 | 10 |

## 0119 double banjo, BSP parallel thread



**brass**
**with pre-assembled nylon washer**



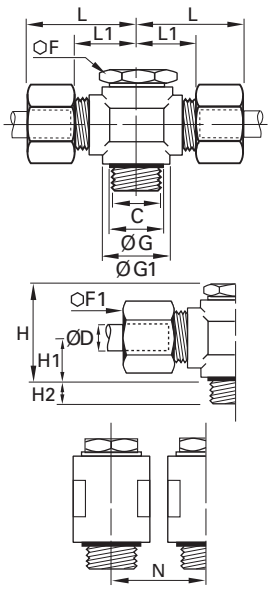

| ØD | C | | F | F1 | H | H1 | L/2 | L1 | N mini | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 0119 04 10 | 14 | 10 | 24 | 9,5 | 24 | 14,5 | 17,5 | 0,048 |
| 6 | G1/8 | 0119 06 10 | 14 | 13 | 24 | 9,5 | 25 | 14,5 | 17,5 | 0,055 |
| 6 | G1/4 | 0119 06 13 | 17 | 13 | 25 | 10 | 26,5 | 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



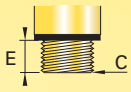
**brass**
**with bi-material seal**




| 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.

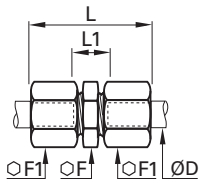



| C | G1/8 | G1/4 | G3/8 | G1/2 | G3/4 |
|---|---|---|---|---|---|
| E | 4,5 | 6 | 8 | 9 | 10 |

## 0106 equal straight coupling



brass

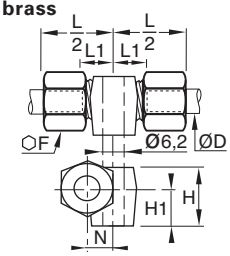



| ØD | | F | F1 | L maxi | L1 | kg |
|---|---|---|---|---|---|---|
| 4 | 0106 04 00 | 10 | 10 | 28 | 10 | 0,017 |
| 5 | 0106 05 00 | 11 | 12 | 31 | 11 | 0,024 |
| 6 | 0106 06 00 | 11 | 13 | 32 | 11 | 0,026 |
| 8 | 0106 08 00 | 13 | 14 | 36 | 10 | 0,031 |
| 10 | 0106 10 00 | 17 | 19 | 42 | 13 | 0,070 |
| 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

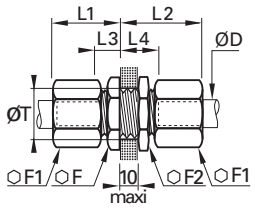



| ØD | | F | H | H1 | L/2 | L1 | N | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 0113 04 00 | 10 | 10,5 | 7 | 19 | 9,5 | 6 | 0,022 |
| 6 | 0113 06 00 | 13 | 13 | 9 | 20,5 | 10 | 7 | 0,033 |
| 8 | 0113 08 00 | 14 | 14,5 | 9,5 | 23,5 | 11 | 8 | 0,040 |
| 10 | 0113 10 00 | 19 | 19,5 | 12,5 | 26 | 11 | 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

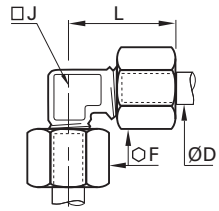



| ØD | | F | F1 | F2 | L1 maxi | L2 maxi | L3 | L4 | T mini | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0116 04 00 | 10 | 10 | 13 | 17 | 27 | 7 | 17 | 8,3 | 0,024 |
| 5 | 0116 05 00 | 13 | 12 | 14 | 18 | 28 | 7,5 | 17,5 | 10,3 | 0,035 |
| 6 | 0116 06 00 | 13 | 13 | 14 | 19 | 28 | 7,5 | 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

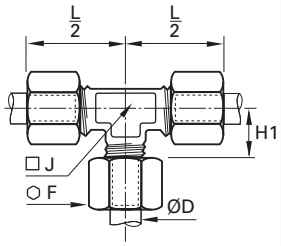



| ØD | | F | J | L maxi | kg |
|---|---|---|---|---|---|
| 4 | 0102 04 00 | 10 | 5 | 19 | 0,017 |
| 5 | 0102 05 00 | 12 | 8 | 21 | 0,024 |
| 6 | 0102 06 00 | 13 | 8 | 22 | 0,027 |
| 8 | 0102 08 00 | 14 | 10 | 28 | 0,038 |
| 10 | 0102 10 00 | 19 | 12 | 30 | 0,072 |
| 12 | 0102 12 00 | 22 | 15 | 30 | 0,097 |
| 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

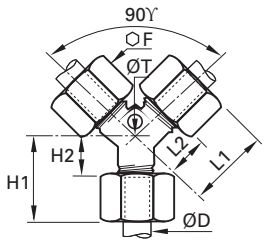



| ØD | | F | H1 | J | L/2 | kg |
|---|---|---|---|---|---|---|
| 4 | 0104 04 00 | 10 | 9,5 | 8 | 19 | 0,029 |
| 5 | 0104 05 00 | 12 | 11 | 8 | 21 | 0,035 |
| 6 | 0104 06 00 | 13 | 11 | 8 | 22 | 0,040 |
| 8 | 0104 08 00 | 14 | 15 | 10 | 28 | 0,055 |
| 10 | 0104 10 00 | 19 | 14,5 | 12 | 30 | 0,103 |
| 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

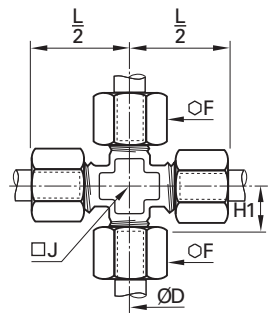



| ØD | | F | H1 maxi | H2 | L1 maxi | L2 | T | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 0142 04 00 | 10 | 16,5 | 7 | 26,5 | 17 | 4,2 | 0,032 |
| 5 | 0142 05 00 | 12 | 18,5 | 8,5 | 27 | 17 | 4,2 | 0,046 |
| 6 | 0142 06 00 | 13 | 19,5 | 8,5 | 28 | 17 | 4,2 | 0,050 |
| 8 | 0142 08 00 | 14 | 21 | 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.



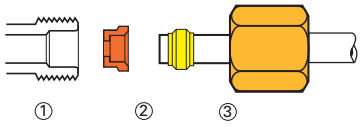
② the universal compression olive which fits on the end of the tube and is inserted between the reduction piece and the sleeve nut.



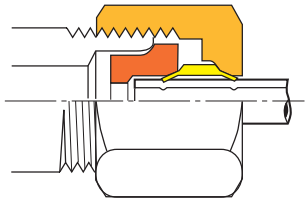


③ the brass sleeve nut






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

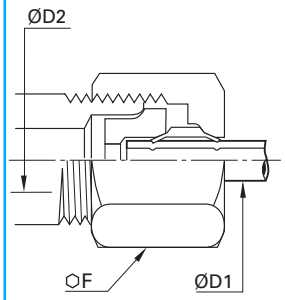


fully assembled unit

## 0166 reduction assembly



**brass**




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

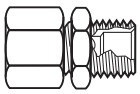
| ØD1 | ØD2 | | F | kg |
|---|---|---|---|---|
| 4 | 5 | 0166 04 05 | 13 | 0,011 |
| 5 | 6 | 0166 05 06 | 13 | 0,011 |
| 4 | 6 | 0166 04 06 | 13 | 0,011 |
| 6 | 8 | 0166 06 08 | 14 | 0,012 |
| 5 | 8 | 0166 05 08 | 14 | 0,013 |
| 4 | 8 | 0166 04 08 | 14 | 0,014 |
| 8 | 10 | 0166 08 10 | 19 | 0,027 |
| 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.

<table>
<tr><td colspan="6">brass fitting body<br></td></tr>
<tr><td colspan="2">0110<br><br>brass</td><td colspan="2">0110... 60<br><br>brass</td><td>0110... 40<br><br>steel</td><td rowspan="2">0110... 70<br><br>plastic</td></tr>
<tr><td>0124<br><br>brass</td><td>0111<br><br>brass BNA</td><td>0124<br><br>brass</td><td>0111<br><br>brass BNA</td><td>0124... 40<br><br>steel</td></tr>
<tr><td><br>brass tube, plastic tube, copper tube and barbed fitting 0122 and 0165</td><td><br>copper tube</td><td><br>soft copper tube subjected to vibration and lateral forces</td><td><br>half hard copper tube subjected to vibration and lateral forces</td><td><br>steel tube : low and medium pressure hydraulics</td><td><br>plastic tubes</td></tr>
</table>



## 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

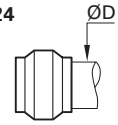
The above recommendations are given in good faith. However, since each application is different it is advisable to undertake tests in actual working conditions.

## 0124, 0124 suffix 40, 0111 olives

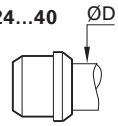




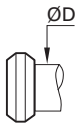
**brass olive 0124**




**passivated steel olive 0124...40**




**brass olive 0111**



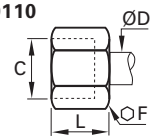

| ØD | | kg | | kg | | kg |
|---|---|---|---|---|---|---|
| 4 | 0124 04 00 | 0,001 | 0124 04 00 40 | 0,001 | 0111 04 00 | 0,001 |
| 5 | 0124 05 00 | 0,001 | 0124 05 00 40 | 0,001 | 0111 05 00 | 0,001 |
| 6 | 0124 06 00 | 0,001 | 0124 06 00 40 | 0,001 | 0111 06 00 | 0,001 |
| 8 | 0124 08 00 | 0,002 | 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

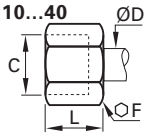




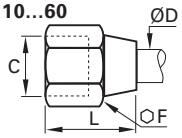
**brass nut 0110**




**passivated steel nut 0110...40**




**brass nut 0110...60**

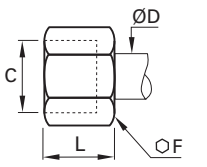



| ØD | C | | kg | | kg | | kg |
|---|---|---|---|---|---|---|---|
| 4 | M8x1 | 0110 04 00 | 0,005 | 0110 04 00 40 | 0,004 | 0110 04 00 60 | 0,006 |
| 5 | M10x1 | 0110 05 00 | 0,006 | 0110 05 00 40 | 0,006 | 0110 05 00 60 | 0,009 |
| 6 | M10x1 | 0110 06 00 | 0,008 | 0110 06 00 40 | 0,008 | 0110 06 00 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 | | | | |

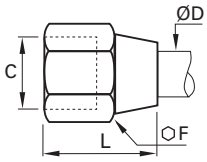
### Technical specification of sleeve nuts

**tightening torque** :

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




**nut 0110 and 0110...40**



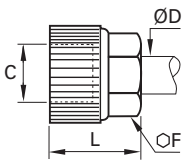

**nut 0110...60**

| 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**



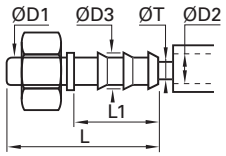

| ØD | C | | F | L | kg |
|---|---|---|---|---|---|
| 4 | M8x1 | 0110 04 00 70 | 8 | 13 | 0,001 |
| 6 | M10x1 | 0110 06 00 70 | 11 | 15 | 0,002 |
| 8 | M12x1 | 0110 08 00 70 | 13 | 16 | 0,002 |
| 10 | M16x1,5 | 0110 10 00 70 | 17 | 19 | 0,004 |
| 12 | M18x1,5 | 0110 12 00 70 | 19 | 19 | 0,005 |
| 14 | 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

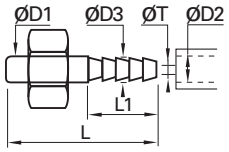



| Ø D1 | Ø D2 | | Ø D3 | L | L1 | ØT mini | kg |
|---|---|---|---|---|---|---|---|
| 4 | 4 | 0122 04 04 | 6 | 37,5 | 22,5 | 3 | 0,004 |
| 5 | 4 | 0122 05 04 | 6 | 37,5 | 22,5 | 3 | 0,004 |
| 6 | 4 | 0122 06 04 | 6 | 37,5 | 22,5 | 3 | 0,005 |
| 6 | 7 | 0122 06 07 | 9 | 37,5 | 22,5 | 6 | 0,007 |
| 8 | 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

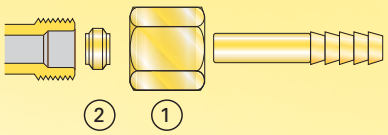


brass




| 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

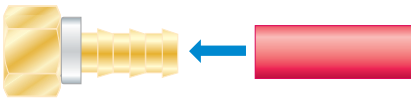



**0122** and **0165** tailpiece adaptors are used in place of tube. They are therefore inserted into the fittings and fixed with the nut and olive supplied with the fitting.

# 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



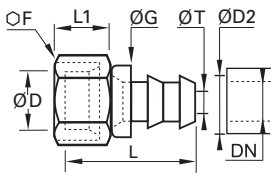
Selection of self-fastening tube is done by DN:

| 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**

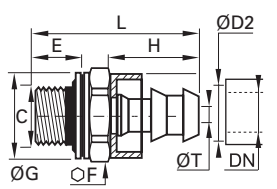



| ØD | DN | ØD1 | | ØD2 | F | G | L | L1 | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| **6** | **1/4** | 6,3 | **0132 06 56** | 13 | 12 | 16,5 | 32,5 | 12,5 | 4,8 | 0,012 |
| **8** | **1/4** | 6,3 | **0132 08 56** | 13 | 14 | 16,5 | 29,5 | 11,5 | 4,8 | 0,014 |
| **10** | **1/4** | 6,3 | **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**

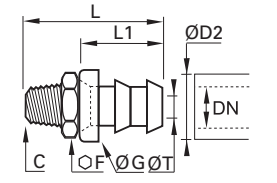



| C | DN | ØD1 | | ØD2 | E | F | G | H | L | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **G1/8** | **1/4** | 6,3 | **0133 56 10 39** | 13 | 5,5 | 13 | 14 | 20 | 31,5 | 4,8 | 0,012 |
| **G1/4** | **1/4** | 6,3 | **0133 56 13 39** | 13 | 7 | 17 | 17 | 20 | 33,5 | 4,8 | 0,020 |
| **G1/4** | **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 |

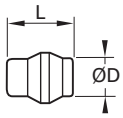
**Maximum torque for model 0132**

| 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.

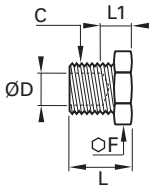
It replaces the olive.

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**



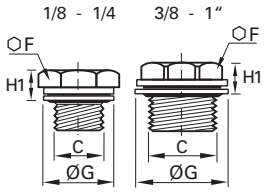

| ØD | C | | F | L | L1 | kg |
|---|---|---|---|---|---|---|
| 4 | M8x1 | 0125 04 00 | 10 | 12 | 8 | 0,006 |
| 6 | M10x1 | 0125 06 00 | 11 | 13,5 | 9,5 | 0,009 |
| 8 | M12x1 | 0125 08 00 | 14 | 14 | 9 | 0,012 |
| 10 | M16x1,5 | 0125 10 00 | 17 | 18 | 11 | 0,025 |
| 12 | M18x1,5 | 0125 12 00 | 19 | 18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

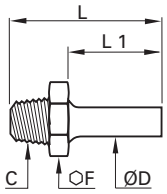



| C | | F | G | H1 | kg |
|---|---|---|---|---|---|
| G1/8 | 0220 10 00 39 | 14 | 14 | 6,5 | 0,005 |
| G1/4 | 0220 13 00 39 | 17 | 17 | 6,5 | 0,016 |
| G3/8 | 0220 17 00 39 | 17 | 22 | 8 | 0,021 |
| G1/2 | 0220 21 00 39 | 22 | 26 | 9 | 0,045 |
| G3/4 | 0220 27 00 39 | 22 | 32 | 10 | 0,053 |
| G1" | 0220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

## 0120 straight stem adaptor, BSP taper thread



brass

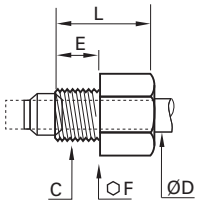



| ØD | | | F | L | L1 | kg |
|---|---|---|---|---|---|---|
| 4 | R1/8 | 0120 04 10 | 11 | 25,5 | 14 | 0,007 |
| 5 | R1/8 | 0120 05 10 | 11 | 26 | 14,5 | 0,008 |
| 6 | R1/8 | 0120 06 10 | 11 | 26,5 | 15 | 0,008 |
| 6 | R1/4 | 0120 06 13 | 14 | 31 | 15 | 0,015 |
| 8 | R1/8 | 0120 08 10 | 11 | 28,5 | 17 | 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



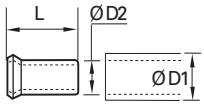

| ØD | C | | E | F | L | kg |
|---|---|---|---|---|---|---|
| 4 | M8x1 | 0112 04 00 | 7 | 10 | 13 | 0,006 |
| 5 | M10x1 | 0112 05 00 | 7,5 | 11 | 13,5 | 0,007 |
| 6 | M10x1 | 0112 06 00 | 7,5 | 11 | 13,5 | 0,008 |
| 8 | M12x1 | 0112 08 00 | 8 | 13 | 15 | 0,009 |
| 10 | M16x1,5 | 0112 10 00 | 11 | 17 | 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



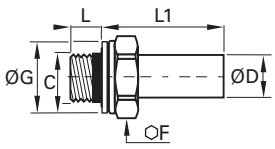

| ØD1 | ØD2 | | L | kg |
|---|---|---|---|---|
| 4 | 2 | 0127 04 00 | 11 | 0,001 |
| 4 | 2,7 | 0127 04 27 | 11 | 0,001 |
| 5 | 3 | 0127 05 03 | 11 | 0,001 |
| 5 | 3,3 | 0127 05 00 | 11,5 | 0,001 |
| 6 | 4 | 0127 06 00 | 11,5 | 0,001 |
| 8 | 5,5 | 0127 08 55 | 14 | 0,001 |
| 8 | 6 | 0127 08 00 | 14 | 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

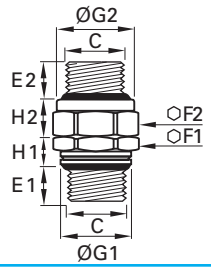



| ØD | C | | F | G | L | L1 | kg |
|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 0128 04 10 39 | 13 | 14 | 7,5 | 20 | 0,008 |
| 4 | G1/4 | 0128 04 13 39 | 17 | 17 | 9 | 22 | 0,010 |
| 6 | G1/8 | 0128 06 10 39 | 13 | 14 | 7,5 | 21 | 0,009 |
| 6 | G1/4 | 0128 06 13 39 | 17 | 17 | 9 | 23 | 0,015 |
| 8 | 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

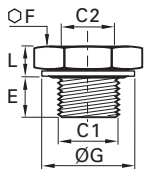



| C | | E1 | E2 | F1 | F2 | G1 | G2 | H1 | H2 | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 0151 10 10 39 | 5,5 | 7 | 13 | 14 | 14 | 14 | 6 | 6,5 | 0,017 |
| G1/4 | 0151 13 13 39 | 7 | 8,5 | 17 | 19 | 17 | 19 | 6,5 | 9 | 0,026 |
| G3/8 | 0151 17 17 39 | 9,5 | 9,5 | 22 | 22 | 22 | 22 | 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



**0144**
taper/parallel
page E5



**0152**
taper
page E5



**0145**
parallel
page E5



**0158**
taper/parallel
page E5



**0117**
parallel
page E5



**0155**
parallel
page E6



**0164**
NPT/parallel
page E6



**0167**
taper/NPT
page E6



**0168**
parallel
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**0163**
taper/parallel
page E6



**0169**
parallel
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**0123**
taper
page E7



**0136**
taper
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**0121**
taper
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**0121**
NPT/taper
page E8



**0929**
taper
page E8



**0135**
parallel
page E8



## nickel-plated accessories

**0912**
parallel/metric
page E9



**0913-0921**
taper/parallel
page E9



**0914-0922**
taper/metric
page E9



**0910**
parallel
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**0911**
parallel/taper
page E9



**0915**
parallel/metric
page E10



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



**0927**
taper
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**0928**
taper/parallel
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**0908**
parallel
page E11



**0909**
parallel/taper
page E11



**0903**
parallel
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**0904**
taper/parallel
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**0905**
parallel/metric
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**0906**
parallel
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**0907**
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**0920**
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**0931**
parallel/metric
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**0900**
taper
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**0901**
parallel/metric
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**0192**
taper/parallel
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**0902**
parallel/metric
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**0919**
parallel/metric
page E13



## aluminium manifolds

**3310**
plug-in connection
page E14



**3311**
parallel
page E14



**3312**
parallel
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**3313**
parallel
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**3301**
modular
page E15



**3302**
single, double and triple
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**3303**
end plate and angled fixing plate
page E16

# the complete range of accessories and threaded plugs

## silencers

**0670**
parallel
page E17



**0673**
parallel
page E17



**0675**
parallel
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**0671**
push-in
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**0672**
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## sealing accessories

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page E19



**0137**
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**0605**
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**0602**
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**0139**
page E20



**0127**
page E20



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## brass plugs

**0205**
taper/NPT
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**0209**
taper
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**0220**
parallel/metric
page E21



**0200**
parallel/metric
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**0201**
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**0202**
metric
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## steel plugs

**0206**
taper/NPT
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**0210**
parallel/metric
page E23



**0216**
taper/NPT
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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

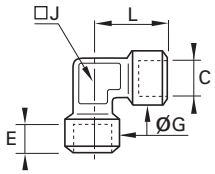
- standard and flow control models
- BSP parallel, M5 and push-in threaded connectors
- sintered bronze and polyethylene

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

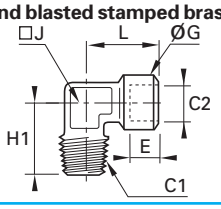



| C | | E | G | J | L | kg |
|---|---|---|---|---|---|---|
| G1/8 | 0143 10 10 | 7,5 | 16,5 | 12 | 22,5 | 0,042 |
| G1/4 | 0143 13 13 | 11 | 18,5 | 15 | 26,5 | 0,055 |
| G3/8 | 0143 17 17 | 11,5 | 23,5 | 19 | 31,5 | 0,098 |
| G1/2 | 0143 21 21 | 15 | 28 | 23 | 35,5 | 0,158 |
| G3/4 | 0143 27 27 | 16,5 | 34 | 27 | 43,5 | 0,256 |

## 0144 male BSP taper stud elbow, female BSP parallel



sand blasted stamped brass

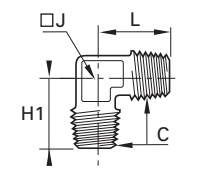



| C1 | C2 | | E | G | H1 | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| R1/8 | G1/8 | 0144 10 10 | 7,5 | 16,5 | 23 | 12 | 22,5 | 0,033 |
| R1/4 | G1/4 | 0144 13 13 | 11 | 18,5 | 26 | 15 | 26,5 | 0,050 |
| R3/8 | G3/8 | 0144 17 17 | 11,5 | 23,5 | 30 | 19 | 31,5 | 0,085 |
| R1/2 | G1/2 | 0144 21 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

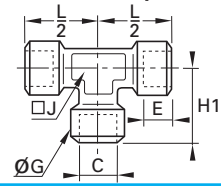



| C | | H1 | J | L | kg |
|---|---|---|---|---|---|
| R1/8 | 0152 10 10 | 19,5 | 10 | 19,5 | 0,018 |
| R1/4 | 0152 13 13 | 25 | 15 | 25 | 0,045 |
| R3/8 | 0152 17 17 | 26,5 | 15 | 26,5 | 0,056 |
| R1/2 | 0152 21 21 | 31,5 | 19 | 31,5 | 0,087 |
| R3/4 | 0152 27 27 | 35,5 | 23 | 35,5 | 0,153 |

## 0145 equal female tee, BSP parallel



sand blasted stamped brass

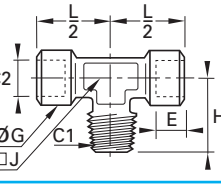



| C | | E | G | H1 | J | L/2 | kg |
|---|---|---|---|---|---|---|---|
| G1/8 | 0145 10 10 | 7,5 | 16,5 | 22,5 | 12 | 22,5 | 0,051 |
| G1/4 | 0145 13 13 | 11 | 18,5 | 26,5 | 15 | 26,5 | 0,074 |
| G3/8 | 0145 17 17 | 11,5 | 23,5 | 31 | 19 | 31 | 0,147 |
| G1/2 | 0145 21 21 | 15 | 28 | 38 | 23 | 38 | 0,231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

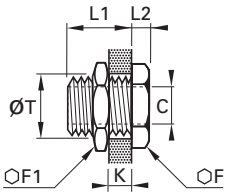



| C1 | C2 | | E | G | H1 | J | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| R1/8 | G1/8 | 0158 10 10 | 7,5 | 16,5 | 21,5 | 12 | 21,5 | 0,045 |
| R1/4 | G1/4 | 0158 13 13 | 11 | 18,5 | 26 | 15 | 26 | 0,071 |
| R3/8 | G3/8 | 0158 17 17 | 11,5 | 23,5 | 30 | 19 | 30 | 0,118 |
| R1/2 | G1/2 | 0158 21 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

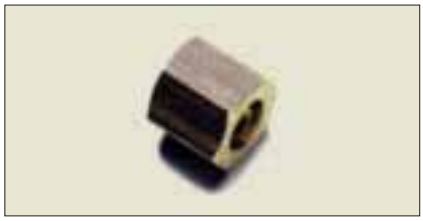


brass

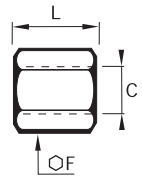



| C | | F | F1 | K maxi | L1 | L2 | T maxi | kg |
|---|---|---|---|---|---|---|---|---|
| M5x0,8 | 0117 00 19 | 14 | 14 | 7 | 10,5 | 3,5 | 10,5 | 0,013 |
| G1/8 | 0117 00 10 | 19 | 22 | 9 | 14 | 4 | 16,5 | 0,033 |
| G1/4 | 0117 00 13 | 24 | 27 | 15 | 21 | 4 | 20,5 | 0,057 |
| G3/8 | 0117 00 17 | 30 | 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

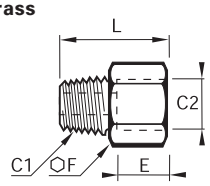



| C | | F | L | kg |
|---|---|---|---|---|
| G1/8 | 0155 10 10 | 14 | 17 | 0,015 |
| G1/4 | 0155 13 13 | 17 | 24 | 0,025 |
| G3/8 | 0155 17 17 | 22 | 25 | 0,045 |
| G1/2 | 0155 21 21 | 27 | 32 | 0,084 |
| G3/4 | 0155 27 27 | 32 | 35 | 0,109 |

## 0164 male NPT to female BSP parallel adaptor



brass

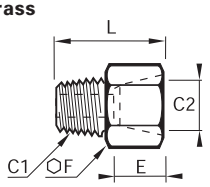



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| 1/8 | G1/8 | 0164 11 10 | 7,5 | 14 | 20 | 0,015 |
| 1/4 | G1/4 | 0164 14 13 | 11 | 17 | 27,5 | 0,028 |
| 3/8 | G3/8 | 0164 18 17 | 11,5 | 22 | 28,5 | 0,044 |
| 1/2 | G1/2 | 0164 22 21 | 15 | 27 | 36,5 | 0,081 |
| 3/4 | G3/4 | 0164 28 27 | 16,5 | 32 | 38,5 | 0,112 |

## 0167 male BSP taper to female NPT adaptor



brass

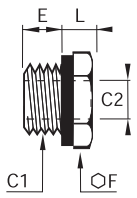



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| R1/8 | 1/8 | 0167 10 11 | 8 | 14 | 21 | 0,016 |
| R1/4 | 1/4 | 0167 13 14 | 11,5 | 17 | 28,5 | 0,029 |
| R3/8 | 3/8 | 0167 17 18 | 12 | 22 | 29,5 | 0,047 |
| R1/2 | 1/2 | 0167 21 22 | 15,5 | 27 | 37,5 | 0,087 |
| R3/4 | 3/4 | 0167 27 28 | 17 | 32 | 39,5 | 0,121 |

## 0168 reducer male to female BSP parallel and M5



brass, with fitted nylon washer

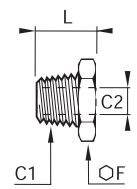



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| G1/8 | M5x0,8 | 0168 10 19 | 7 | 14 | 6 | 0,008 |
| G1/4 | M5x0,8 | 0168 13 19 | 7 | 17 | 7 | 0,010 |
| G1/4 | G1/8 | 0168 13 10 | 7 | 17 | 7 | 0,010 |
| G3/8 | G1/8 | 0168 17 10 | 9 | 19 | 6 | 0,020 |
| G3/8 | G1/4 | 0168 17 13 | 9 | 19 | 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

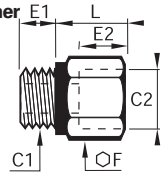



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| R1/4 | G1/8 | 0163 13 10 | 14 | 16 | 0,009 |
| R3/8 | G1/8 | 0163 17 10 | 17 | 16,5 | 0,020 |
| R3/8 | G1/4 | 0163 17 13 | 17 | 16,5 | 0,012 |
| R1/2 | G1/8 | 0163 21 10 | 22 | 21 | 0,047 |
| R1/2 | G1/4 | 0163 21 13 | 22 | 21 | 0,038 |
| R1/2 | 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



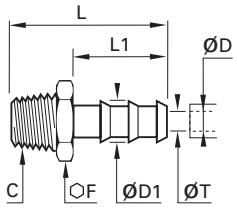

| C1 | C2 | | E1 | E2 | F | L | kg |
|---|---|---|---|---|---|---|---|
| G1/8 | G1/4 | 0169 10 13 | 5 | 11 | 17 | 16 | 0,020 |
| G1/8 | G3/8 | 0169 10 17 | 5 | 14 | 22 | 19,5 | 0,038 |
| G1/4 | G3/8 | 0169 13 17 | 7 | 14 | 22 | 19,5 | 0,042 |
| G1/4 | G1/2 | 0169 13 21 | 7 | 14,5 | 27 | 20,5 | 0,061 |
| 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

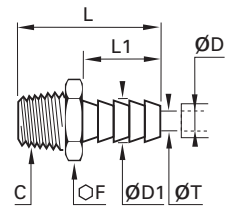



| ØD | C | | ØD1 | F | L | L1 | T mini | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 0123 04 10 | 6 | 10 | 34 | 22,5 | 3,3 | 0,008 |
| 6 | R1/8 | 0123 06 10 | 8 | 10 | 34 | 22,5 | 5 | 0,009 |
| 7 | R1/8 | 0123 07 10 | 9 | 10 | 34 | 22,5 | 5 | 0,009 |
| 7 | R1/4 | 0123 07 13 | 9 | 14 | 38,5 | 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.

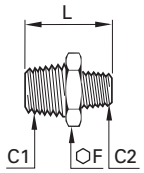
### Technical specification of brass accessories :

- **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

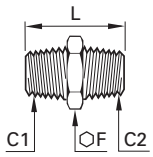



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| R1/8 | R1/8 | 0121 10 10 | 11 | 19 | 0,009 |
| R1/4 | R1/4 | 0121 13 13 | 14 | 27 | 0,021 |
| R1/4 | R1/8 | 0121 13 10 | 14 | 23,5 | 0,021 |
| R3/8 | R3/8 | 0121 17 17 | 17 | 28 | 0,025 |
| R3/8 | R1/4 | 0121 17 13 | 17 | 27,5 | 0,024 |
| R3/8 | 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

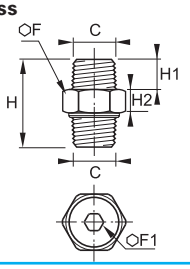



| C1 NPT | C2 | | F | L | kg |
|---|---|---|---|---|---|
| 1/8 | R1/8 | 0121 11 10 | 11 | 19 | 0,009 |
| 1/4 | R1/4 | 0121 14 13 | 14 | 27 | 0,021 |
| 3/8 | R3/8 | 0121 18 17 | 17 | 28 | 0,025 |
| 1/2 | R1/2 | 0121 22 21 | 22 | 36 | 0,053 |
| 3/4 | R3/4 | 0121 28 27 | 27 | 40 | 0,090 |

## 0929 3 piece adaptor, double male BSP taper



brass



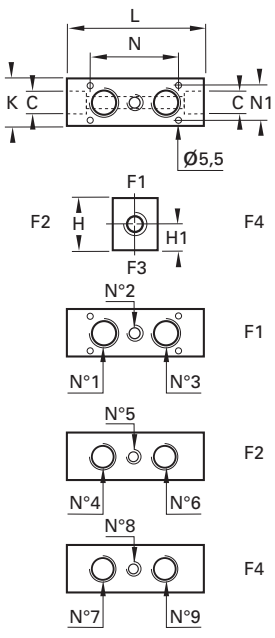

| C | | F | F1 | H | H1 | H2 | kg |
|---|---|---|---|---|---|---|---|
| R1/8 | 0929 00 10 | 15 | 5 | 27 | 9 | 8,5 | 0,181 |
| R1/4 | 0929 00 13 | 19 | 6 | 33,5 | 11,5 | 9,5 | 0,100 |
| R3/8 | 0929 00 17 | 22 | 8 | 36,5 | 13 | 10 | 0,010 |
| R1/2 | 0929 00 21 | 27 | 12 | 45 | 15,5 | 12 | 0,088 |

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.

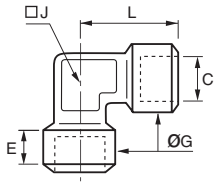
| | F1 | | | | F2 | | | | F4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | no. os ports | n°1 | n°2 | n°3 | no. os ports | n°4 | n°5 | n°6 | no. os ports | n°7 | n°8 | n°9 |
| 0135 06 13 | 1 | G1/4 | | | 2 | G1/8 | | G1/8 | 2 | G1/8 | | G1/8 |
| 0135 09 13 | 2 | G1/4 | | G1/4 | 3 | 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 |

# nickel-plated brass accessories - low to medium pressure

## 0912 equal female stud elbow, BSP parallel and M5



nickel-plated brass

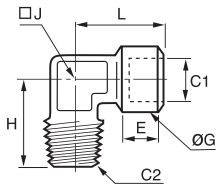



| C | | E | G | J | L | kg |
|---|---|---|---|---|---|---|
| M5x0,8 | 0912 00 19 | 4 | 8 | 9 | 11 | 0,006 |
| G1/8 | 0912 00 10 | 8 | 13 | 10 | 21 | 0,020 |
| G1/4 | 0912 00 13 | 11 | 17 | 13 | 25,5 | 0,040 |
| G3/8 | 0912 00 17 | 11,5 | 21 | 17 | 28 | 0,059 |
| G1/2 | 0912 00 21 | 14 | 26 | 21 | 33,5 | 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

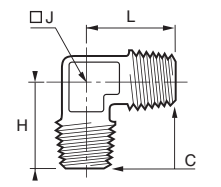



| C1 | C2 | | E | G | H | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| M5x08 | M5x08 | 0921 00 19 | 4 | 8 | 11 | 9 | 11 | 0,006 |
| G1/8 | R1/8 | 0913 00 10 | 8 | 13 | 18,5 | 10 | 21 | 0,017 |
| G1/4 | R1/4 | 0913 00 13 | 11 | 17 | 23,5 | 13 | 25,5 | 0,033 |
| G3/8 | R3/8 | 0913 00 17 | 11,5 | 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

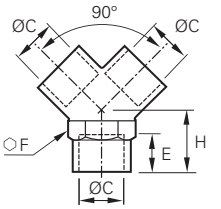



| C | | H | J | L | kg |
|---|---|---|---|---|---|
| M5x0,8 | 0922 00 19 | 11 | 9 | 11 | 0,005 |
| R1/8 | 0914 00 10 | 18,5 | 10 | 18,5 | 0,012 |
| R1/4 | 0914 00 13 | 23,5 | 13 | 23,5 | 0,028 |
| R3/8 | 0914 00 17 | 26 | 17 | 26 | 0,041 |
| R1/2 | 0914 00 21 | 31 | 21 | 31 | 0,071 |
| R3/4 | 0914 00 27 | 35 | 27 | 35 | 0,096 |

## 0910 equal 'Y', female BSP parallel



nickel-plated brass

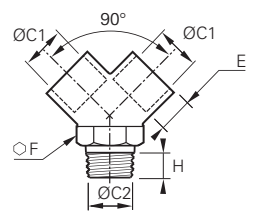



| C | | E | F | H | kg |
|---|---|---|---|---|---|
| G1/8 | 0910 00 10 | 8 | 13 | 12 | 0,020 |
| G1/4 | 0910 00 13 | 11 | 17 | 14 | 0,033 |
| G3/8 | 0910 00 17 | 11,5 | 20 | 16 | 0,045 |
| G1/2 | 0910 00 21 | 14 | 25 | 19 | 0,096 |

## 0911 equal 'Y', female BSP parallel, male BSP taper



nickel-plated brass

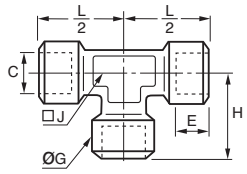



| C1 | C2 | | E | F | H | kg |
|---|---|---|---|---|---|---|
| G1/8 | R1/8 | 0911 00 10 | 8 | 13 | 12 | 0,022 |
| G1/4 | R1/4 | 0911 00 13 | 11 | 17 | 14 | 0,039 |
| G3/8 | R3/8 | 0911 00 17 | 11,5 | 20 | 16 | 0,053 |
| G1/2 | R1/2 | 0911 00 21 | 14 | 25 | 19 | 0,107 |

## 0915 equal female tee, BSP parallel and M5



nickel-plated brass

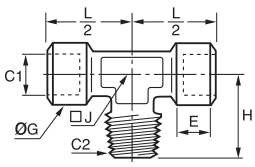



| C | | E | G | H | J | L/2 | kg |
|---|---|---|---|---|---|---|---|
| M5x0,8 | 0915 00 19 | 4 | 8 | 11 | 9 | 11 | 0,009 |
| G1/8 | 0915 00 10 | 8 | 13 | 21 | 10 | 21 | 0,028 |
| G1/4 | 0915 00 13 | 11 | 17 | 25,5 | 13 | 25,5 | 0,056 |
| G3/8 | 0915 00 17 | 11,5 | 21 | 28 | 17 | 28 | 0,083 |
| G1/2 | 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

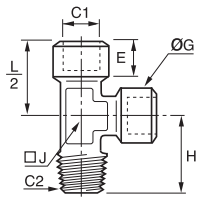



| C1 | C2 | | E | G | H | J | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| M5x0,8 | M5x0,8 | 0923 00 19 | 4 | 8 | 11 | 9 | 11 | 0,009 |
| G1/8 | R1/8 | 0916 00 10 | 8 | 13 | 18,5 | 10 | 21 | 0,025 |
| G1/4 | R1/4 | 0916 00 13 | 11 | 17 | 23,5 | 13 | 25,5 | 0,049 |
| G3/8 | R3/8 | 0916 00 17 | 11,5 | 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

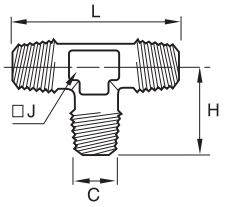



| C1 | C2 | | E | G | H | J | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| M5x0,8 | M5x0,8 | 0924 00 19 | 4 | 8 | 11 | 9 | 11 | 0,009 |
| G1/8 | R1/8 | 0917 00 10 | 8 | 13 | 18,5 | 10 | 21 | 0,024 |
| G1/4 | R1/4 | 0917 00 13 | 11 | 17 | 23,5 | 13 | 25,5 | 0,050 |
| G3/8 | R3/8 | 0917 00 17 | 11,5 | 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

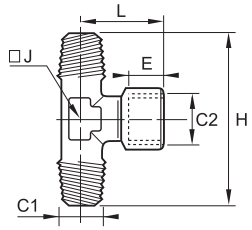



| C | | H | J | L | kg |
|---|---|---|---|---|---|
| R1/8 | 0927 00 10 | 18,5 | 10 | 37 | 0,017 |
| R1/4 | 0927 00 13 | 23,5 | 13 | 47 | 0,038 |
| R3/8 | 0927 00 17 | 26 | 17 | 52 | 0,057 |
| R1/2 | 0927 00 21 | 31 | 21 | 62 | 0,093 |

## 0928 male stud branch tee BSP taper, female BSP parallel



nickel-plated brass



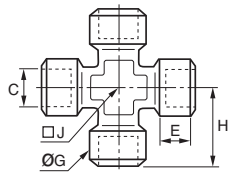

| C1 | C2 | | H | J | L | kg |
|---|---|---|---|---|---|---|
| R1/8 | G1/8 | 0928 00 10 | 8 | 37 | 10 | 21 | 0,021 |
| R1/4 | G1/4 | 0928 00 13 | 11 | 47 | 13 | 25,5 | 0,044 |
| R3/8 | G3/8 | 0928 00 17 | 11,5 | 52 | 17 | 28 | 0,066 |
| R1/2 | G1/2 | 0928 00 21 | 14 | 62 | 21 | 33,5 | 0,109 |

# nickel-plated brass accessories - low to medium pressure

## 0908 equal female cross, BSP parallel



nickel-plated brass

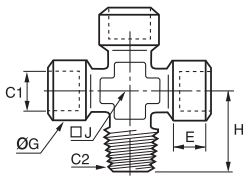



| C | | E | G | H | J | kg |
|---|---|---|---|---|---|---|
| G1/8 | 0908 00 10 | 8 | 13 | 21 | 10 | 0,035 |
| G1/4 | 0908 00 13 | 11 | 17 | 25,5 | 13 | 0,072 |
| G3/8 | 0908 00 17 | 11,5 | 21 | 28 | 17 | 0,103 |
| G1/2 | 0908 00 21 | 14 | 26 | 33,5 | 21 | 0,182 |

## 0909 equal cross, female BSP parallel, male BSP taper



nickel-plated brass

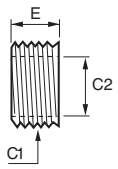



| C1 | C2 | | E | G | H | J | kg |
|---|---|---|---|---|---|---|---|
| G1/8 | R1/8 | 0909 00 10 | 8 | 13 | 18,5 | 10 | 0,033 |
| G1/4 | R1/4 | 0909 00 13 | 11 | 17 | 23,5 | 13 | 0,066 |
| G3/8 | R3/8 | 0909 00 17 | 11,5 | 21 | 26 | 17 | 0,094 |
| G1/2 | R1/2 | 0909 00 21 | 14 | 26 | 31 | 21 | 0,165 |

## 0903 reducer male to female BSP parallel



nickel-plated brass

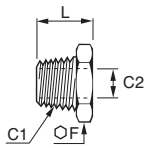



| C1 | C2 | | E | kg |
|---|---|---|---|---|
| G1/4 | G1/8 | 0903 10 13 | 8 | 0,003 |
| G3/8 | G1/4 | 0903 13 17 | 9 | 0,006 |
| G1/2 | G3/8 | 0903 17 21 | 10 | 0,009 |
| G3/4 | G1/2 | 0903 21 27 | 14 | 0,021 |
| G1" | G3/4 | 0903 27 34 | 20 | 0,038 |

## 0904 reducer male BSP taper to female BSP parallel



nickel-plated brass

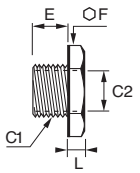



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| R1/4 | G1/8 | 0904 10 13 | 14 | 16 | 0,010 |
| R3/8 | G1/8 | 0904 10 17 | 17 | 16,5 | 0,020 |
| R3/8 | G1/4 | 0904 13 17 | 17 | 16,5 | 0,014 |
| R1/2 | G1/4 | 0904 13 21 | 22 | 19,5 | 0,038 |
| R1/2 | G3/8 | 0904 17 21 | 22 | 19,5 | 0,028 |
| R3/4 | 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 :**

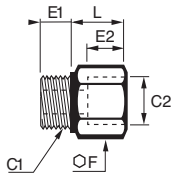
- **Working pressure** : 60 bar maximum
- **Working temperature** : -10° to + 80°C

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

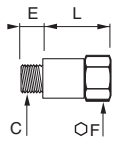



| C1 | C2 | | E1 | E2 | F | L | kg |
|---|---|---|---|---|---|---|---|
| M5x0,8 | G1/8 | 0906 10 19 | 4 | 8 | 14 | 10 | 0,009 |
| G1/8 | G1/8 | 0906 00 10 | 6 | 8 | 14 | 10 | 0,009 |
| G1/8 | G1/4 | 0906 10 13 | 6 | 11 | 17 | 14 | 0,017 |
| G1/8 | G3/8 | 0906 10 17 | 6 | 11,5 | 22 | 14,5 | 0,029 |
| 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

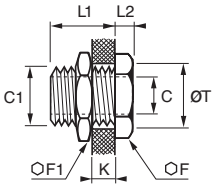



| C | | E | F | L | kg |
|---|---|---|---|---|---|
| G1/8 | 0907 00 10 | 6 | 14 | 16 | 0,014 |
| G1/8 | 0907 00 10 01 | 6 | 14 | 36 | 0,029 |
| G1/4 | 0907 00 13 | 8 | 17 | 27 | 0,026 |
| G1/4 | 0907 00 13 01 | 8 | 17 | 43 | 0,037 |

## 0920 female bulkhead connector BSP parallel and M5



nickel-plated brass

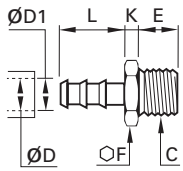



| C | C1 | | F | F1 | K max. | L1 | L2 | T max. | kg |
|---|---|---|---|---|---|---|---|---|---|
| M5x0,8 | M10x1 | 0920 00 19 | 14 | 14 | 7 | 10,5 | 3,5 | 10,5 | 0,002 |
| G1/8 | M16x1,5 | 0920 00 10 | 19 | 22 | 9 | 14 | 4 | 16,5 | 0,029 |
| G1/4 | M20x1,5 | 0920 00 13 | 24 | 27 | 15 | 21 | 4 | 20,5 | 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

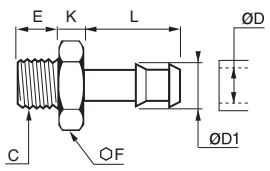



| D | C | | D1 | E | F | K | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | G1/4 | 0191 04 13 | 6 | 9,5 | 17 | 5 | 22,5 | 0,019 |
| 7 | G1/4 | 0191 07 13 | 9 | 9,5 | 17 | 5 | 22,5 | 0,021 |
| 7 | G1/2 | 0191 07 21 | 9 | 11 | 27 | 7 | 29,5 | 0,065 |
| 10 | G1/4 | 0191 10 13 | 12,2 | 9,5 | 17 | 5 | 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



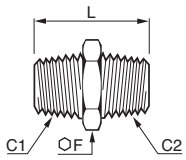

| D | C | | D1 | E | F | K | L | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 0931 06 10 | 7 | 6 | 12 | 4 | 20 | 0,008 |
| 6 | G1/4 | 0931 06 13 | 7 | 8 | 14 | 5 | 20 | 0,013 |
| 7 | G1/8 | 0931 07 10 | 8 | 6 | 12 | 4 | 20 | 0,009 |
| 7 | G1/4 | 0931 07 13 | 8 | 8 | 14 | 5 | 20 | 0,017 |
| 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 |

# nickel-plated brass accessories - low to medium pressure

## 0900 straight male, unequal adaptor, BSP taper



nickel-plated brass

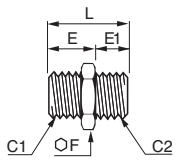



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| R1/8 | R1/8 | 0900 00 10 | 12 | 19,5 | 0,008 |
| R1/8 | R1/4 | 0900 10 13 | 14 | 23,5 | 0,013 |
| R1/4 | R1/4 | 0900 00 13 | 14 | 27 | 0,016 |
| R1/8 | R3/8 | 0900 10 17 | 17 | 24 | 0,019 |
| R1/4 | R3/8 | 0900 13 17 | 17 | 27,5 | 0,023 |
| R3/8 | 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

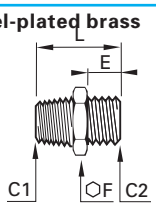



| C1 | C2 | | E | E1 | F | L | kg |
|---|---|---|---|---|---|---|---|
| M5X0,8 | M5X0,8 | 0901 00 19 | 4 | 4 | 8 | 11,5 | 0,002 |
| M5X0,8 | G1/8 | 0901 19 10 | 4 | 6 | 14 | 14,5 | 0,008 |
| G1/8 | G1/8 | 0901 00 10 | 6 | 6 | 14 | 16,5 | 0,008 |
| G1/8 | G1/4 | 0901 10 13 | 6 | 8 | 17 | 19 | 0,014 |
| 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

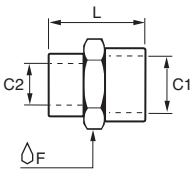



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| R1/8 | G1/4 | 0192 10 13 | 9,5 | 17 | 23,5 | 0,019 |
| R1/4 | G1/4 | 0192 13 13 | 9,5 | 17 | 27,5 | 0,024 |
| R1/4 | G1/2 | 0192 13 21 | 27 | 27 | 31,5 | 0,067 |
| R3/8 | G1/4 | 0192 17 13 | 9,5 | 17 | 45 | 0,025 |
| R3/8 | G1/2 | 0192 17 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

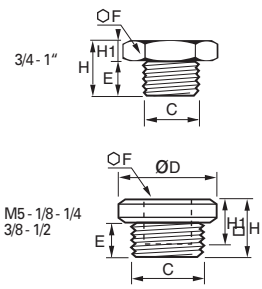



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| M5x0,8 | M5x0,8 | 0902 00 19 | 8 | 11 | 0,003 |
| M5x0,8 | G1/8 | 0902 19 10 | 14 | 13 | 0,008 |
| G1/8 | G1/8 | 0902 00 10 | 14 | 15 | 0,010 |
| G1/8 | G1/4 | 0902 10 13 | 17 | 19,5 | 0,017 |
| G1/4 | G1/4 | 0902 00 13 | 17 | 22 | 0,018 |
| G1/8 | 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

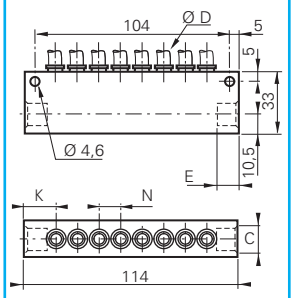



| C | | ØD | E | F | H | H1 | kg |
|---|---|---|---|---|---|---|---|
| M5x0,8 | 0919 00 19 | 8 | 4 | 2,5 | 7,5 | 3,5 | 0,001 |
| G1/8 | 0919 00 10 | 15 | 6 | 3 | 10 | 4 | 0,008 |
| G1/4 | 0919 00 13 | 18 | 8 | 6 | 12 | 4 | 0,013 |
| G3/8 | 0919 00 17 | 21 | 9 | 8 | 13 | 4 | 0,021 |
| G1/2 | 0919 00 21 | 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

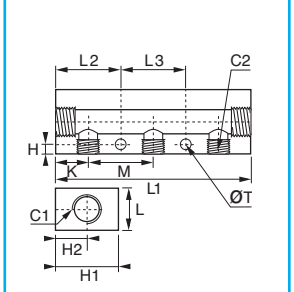



| ØD | C2 | | Nomber of outlets | E | K | N | kg |
|---|---|---|---|---|---|---|---|
| 4 | G1/4 | 3310 04 13 | 8 | 10 | 16,75 | 11,5 | 0,163 |
| 6 | G1/4 | 3310 06 13 | 8 | 10 | 13,5 | 12,5 | 0,165 |
| 8 | G3/8 | 3310 08 17 | 6 | 12 | 19 | 15 | 0,165 |
| 10 | G1/2 | 3310 10 21 | 6 | 16 | 19 | 17,1 | 0,207 |
| 12 | G1/2 | 3310 12 21 | 6 | 16 | 19 | 20,5 | 0,225 |

## 3311 female manifold BSP parallel and M5



anodized aluminium

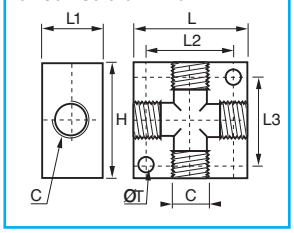



| C1 | C2 | | Nomber of outlets | H | H1 | H2 | K | L | L1 | L2 | L3 | M | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | M5x0,8 | 3311 19 10 07 | 7 | 3,5 | 20 | 11,5 | 14,5 | 15 | 95 | 7,5 | 80 | 11 | 4,4 | 0,072 |
| G1/4 | G1/8 | 3311 10 13 02 | 2 | 4,5 | 30 | 15 | 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

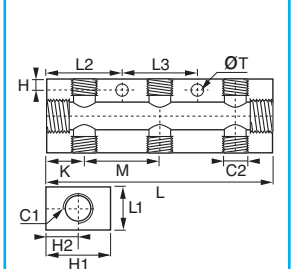



| C | | H | L | L1 | L2 | L3 | T | kg |
|---|---|---|---|---|---|---|---|---|
| M5x0,8 | 3312 00 19 | 20 | 20 | 10 | 12 | 12 | 4,5 | 0,008 |
| G1/8 | 3312 00 10 | 30 | 30 | 16 | 23 | 22 | 4,5 | 0,032 |
| G1/4 | 3312 00 13 | 40 | 40 | 20 | 30 | 27 | 5,5 | 0,067 |
| G3/8 | 3312 00 17 | 50 | 50 | 25 | 38 | 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 |

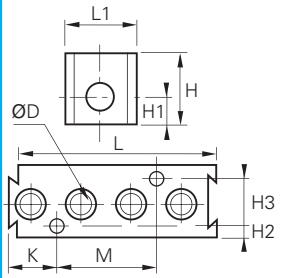
**Technical specification of manifolds 3310, 3311, 3312 and 3313**

- **working pressure** : maximum 20 bar
- **working temperature** : -10° to + 80°C

## 3301 manifold with LF 3000 push-in connection



anodized aluminium



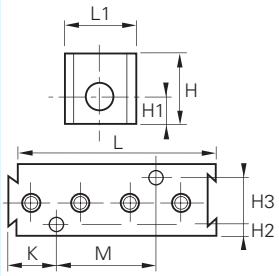

| ØD | Nomber of outlets | | H | H1 | H2 | H3 | K | L | L1 | M | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 8 | 3301 04 00 | 25 | 10 | 4,5 | 16 | 17,25 | 73,5 | 25 | 35 | 0,109 |
| 6 | 4 | 3301 06 00 | 25 | 10 | 4,5 | 16 | 17,25 | 73,5 | 25 | 35 | 0,114 |

fixing by screw M3 x 20

## 3301 female manifold BSP parallel



anodized aluminium



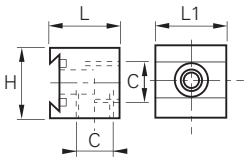

| C | Nomber of outlets | | H | H1 | H2 | H3 | K | L | L1 | M | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 3301 07 10 | 25 | 10 | 4,5 | 16 | 17,25 | 73,5 | 25 | 35 | 0,095 |

fixing by screw M3 x 20

## 3302 single module BSP parallel



anodized aluminium



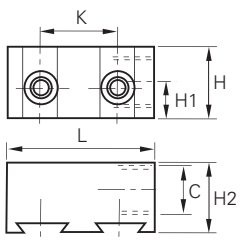

| C | | H | L | L1 | kg |
|---|---|---|---|---|---|
| G1/4 | 3302 01 13 | 25 | 24,5 | 25 | 0,029 |
| G1/4 | 3302 01 13 01 | 25 | 24,5 | 25 | 0,029 |

3302 01 13 : side entry thread
3302 01 13 01 : rear entry thread

## 3302 double manifold BSP parallel



anodized aluminium



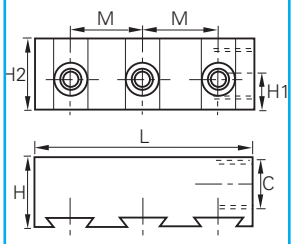

| C | | H | H1 | H2 | K | L | kg |
|---|---|---|---|---|---|---|---|
| G3/8 | 3302 02 17 | 25 | 12,5 | 24,5 | 26 | 51 | 0,052 |

side entry thread

## 3302 triple manifold BSP parallel



anodized aluminium



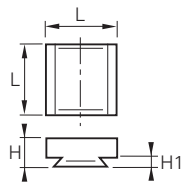

| C | | H | H1 | H2 | L | M | kg |
|---|---|---|---|---|---|---|---|
| G3/8 | 3302 03 17 | 24,5 | 12,5 | 25 | 77 | 26 | 0,078 |

lateral supply

## 3303 end plate



anodized aluminium

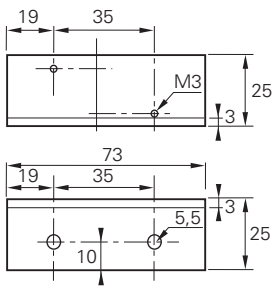



| | H | H1 | L | kg |
|---|---|---|---|---|
| 3303 00 01 | 9,5 | 3,5 | 25 | 0,014 |

## 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

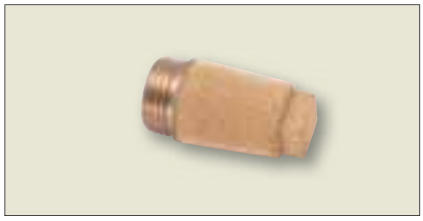
# silencers

**Legris silencers** reduce sound levels whilst air is vented from a compressed air system.
Legris offers 2 types of silencers:

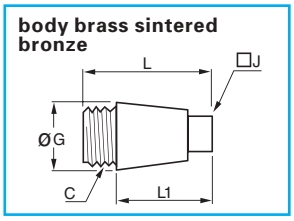
- **sintered bronze**, for an economical solution
- **polyethylene**, for improved reduction of noise whilst guaranteeing high exhaust air flow

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**

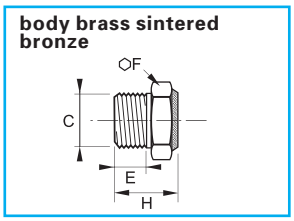



| C | | J | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| G1/8 | 0670 00 10 | 7 | 12 | 22 | 17 | 0,007 |
| G1/4 | 0670 00 13 | 9 | 15 | 27 | 21 | 0,015 |
| G3/8 | 0670 00 17 | 11 | 19 | 35 | 28 | 0,029 |
| G1/2 | 0670 00 21 | 13 | 23 | 43 | 34 | 0,051 |
| G3/4 | 0670 00 27 | 17 | 30 | 55 | 45 | 0,095 |
| G1" | 0670 00 34 | 21 | 37 | 65 | 53 | 0,162 |

## 0673 threaded silencer, male BSP parallel and M5



**body brass sintered bronze**

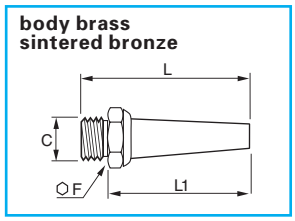



| C | | E | F | H | kg |
|---|---|---|---|---|---|
| M5x0,8 | 0673 00 19 | 4 | 7 | 8 | 0,001 |
| G1/8 | 0673 00 10 | 8 | 14 | 14 | 0,008 |
| G1/4 | 0673 00 13 | 8 | 17 | 14 | 0,013 |
| G3/8 | 0673 00 17 | 10 | 22 | 18 | 0,020 |
| G1/2 | 0673 00 21 | 12 | 27 | 21 | 0,024 |

## 0675 silencer, male BSP parallel and M5



**body brass sintered bronze**

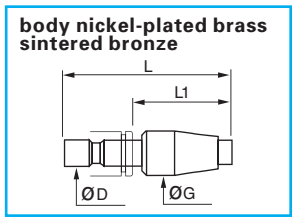



| C | | F | L | L1 | kg |
|---|---|---|---|---|---|
| M5x0,8 | 0675 00 19 | 7 | 16 | 12 | 0,002 |
| M7x1 | 0675 00 55 | 11 | 25 | 19 | 0,005 |
| G1/8 | 0675 00 10 | 14 | 42 | 34 | 0,014 |
| G1/4 | 0675 00 13 | 17 | 52 | 44 | 0,024 |
| G3/8 | 0675 00 17 | 22 | 54 | 44 | 0,042 |
| G1/2 | 0675 00 21 | 27 | 65 | 53 | 0,078 |

## 0671 push-in silencer



**body nickel-plated brass sintered bronze**

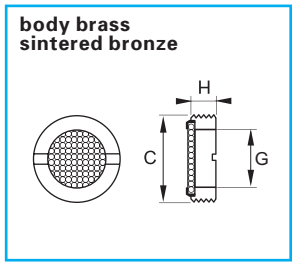



| C | | G | L | L1 | kg |
|---|---|---|---|---|---|
| 4 | 0671 04 00 | 13 | 41,5 | 24,5 | 0,015 |
| 6 | 0671 06 00 | 15 | 48 | 29 | 0,023 |
| 8 | 0671 08 00 | 15 | 49,5 | 29,5 | 0,024 |
| 10 | 0671 10 00 | 19,5 | 68 | 43,5 | 0,054 |
| 12 | 0671 12 00 | 20 | 68,5 | 43 | 0,055 |

## 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 |

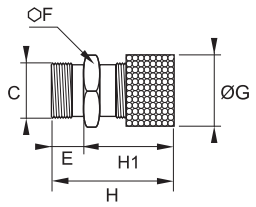
### Technical specification of silencers :

- **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**



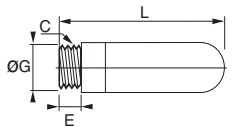

| C | | E | F | G | H mini | H maxi | H1 maxi | kg |
|---|---|---|---|---|---|---|---|---|
| G1/8 | 0672 00 10 | 8 | 14 | 14 | 25 | 29 | 21 | 0,017 |
| G1/4 | 0672 00 13 | 8 | 17 | 17 | 28 | 32 | 24 | 0,028 |
| G3/8 | 0672 00 17 | 10 | 22 | 22 | 30 | 38 | 28 | 0,055 |
| G1/2 | 0672 00 21 | 12 | 27 | 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**

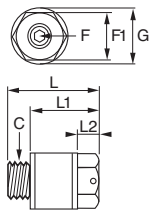



| C | | E | G | L | kg |
|---|---|---|---|---|---|
| M5x0,8 | 0674 00 19 | 4 | 6,5 | 23 | 0,001 |
| G1/8 | 0674 00 10 | 6 | 12,5 | 34 | 0,002 |
| G1/4 | 0674 00 13 | 7 | 15,5 | 42,5 | 0,003 |
| G3/8 | 0674 00 17 | 11,5 | 18,5 | 67,5 | 0,006 |
| G1/2 | 0674 00 21 | 11 | 23,5 | 78 | 0,010 |
| G3/4 | 0674 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 |

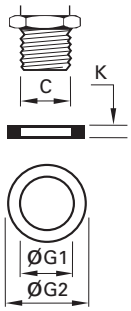
| | technical characteristics | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | flow (Nl/min at 6 bar) | | | | | | | | | | noise level (dBA at 6 bar and 350 Nl/min |
| | number of turns | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 0676 00 10 | 0 | 30 | 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



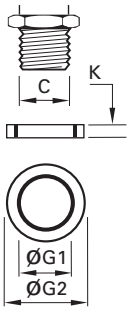
DIN 7603
ISO 65061




| 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.

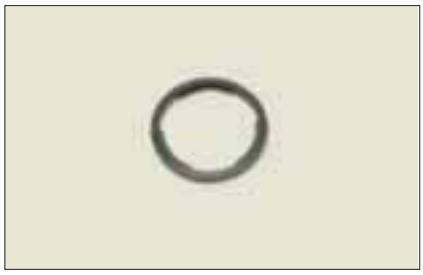
## 0605 fluoropolymer tape



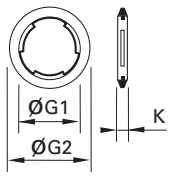
| | kg |
|---|---|
| 0605 12 12 | 0,011 |

- 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**



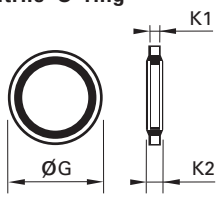

| C | | G1 | G2 | K | kg |
|---|---|---|---|---|---|
| M5x0,8 | 0602 29 93 15 | 5,2 | 7,8 | 1,5 | 0,001 |
| G1/8 | 0602 23 10 20 | 10,3 | 14 | 2 | 0,001 |
| G1/4 | 0602 23 11 20 | 13,7 | 17,5 | 2 | 0,001 |
| G3/8 | 0602 23 12 20 | 17,2 | 21 | 2 | 0,001 |
| G1/2 | 0602 23 13 20 | 21,5 | 25,5 | 2,5 | 0,001 |
| 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**



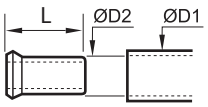

| C | | G | K1 | K2 | kg |
|---|---|---|---|---|---|
| G1/8 | 0139 10 00 | 14 | 1 | 1,8 | 0,001 |
| G1/4 | 0139 13 00 | 17 | 1 | 1,8 | 0,001 |
| G3/8 | 0139 17 00 | 22 | 1,3 | 2,1 | 0,001 |
| G1/2 | 0139 21 00 | 26 | 1,6 | 2,4 | 0,002 |
| G3/4 | 0139 27 00 | 32 | 1,6 | 2,4 | 0,002 |
| G1" | 0139 34 00 | 39,5 | 3,5 | 2,6 | 0,002 |

Maximum allowable working pressure : 250 bar

## 0127 ferrule for nylon and polyurethane tubing



**brass**

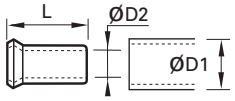



| ØD1 | ØD2 | | L | kg |
|---|---|---|---|---|
| 4 | 2 | 0127 04 00 | 11 | 0,001 |
| 4 | 2,7 | 0127 04 27 | 11 | 0,001 |
| 5 | 3 | 0127 05 03 | 11 | 0,001 |
| 5 | 3,3 | 0127 05 00 | 11,5 | 0,001 |
| 6 | 4 | 0127 06 00 | 11,5 | 0,001 |
| 8 | 5,5 | 0127 08 55 | 14 | 0,001 |
| 8 | 6 | 0127 08 00 | 14 | 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**

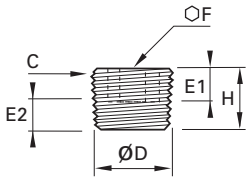


| | M5x0,8 | G1/8" | G1/4" | G3/8" | G1/2" | G3/4 | G1" |
|---|---|---|---|---|---|---|---|
| minimum torque N/m x 10 | 0,06 | 0,08 | 0,3 | 0,5 | 1 | 1,2 | 1,9 |
| minimum torque N/m x 10 | 0,16 | 0,8 | 1,2 | 3 | 3,5 | 6 | 9 |

## 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 |

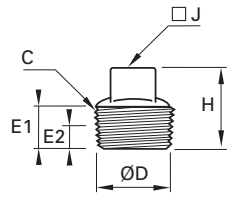
| C NPT | | ØD | E1 | E2 mini | E2 maxi | F | H | kg |
|---|---|---|---|---|---|---|---|---|
| 1/8 | 0205 11 00 | 10,242 | 6 | 3,2 | 5 | 5 | 8 | 0,004 |
| 1/4 | 0205 14 00 | 13,616 | 8 | 4,4 | 7,2 | 6 | 10 | 0,008 |
| 3/8 | 0205 18 00 | 17,055 | 8 | 4,7 | 7,5 | 8 | 11 | 0,014 |
| 1/2 | 0205 22 00 | 21,223 | 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**



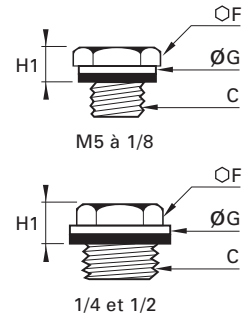

| C | | ØD | E1 | E2 mini | E2 maxi | H | J | kg |
|---|---|---|---|---|---|---|---|---|
| R1/8 | 0209 10 00 | 9,728 | 6 | 3,1 | 4,9 | 16 | 6 | 0,007 |
| R1/4 | 0209 13 00 | 13,157 | 8 | 4,7 | 7,3 | 18 | 8 | 0,014 |
| R3/8 | 0209 17 00 | 16,662 | 10 | 5,1 | 7,7 | 20 | 10 | 0,026 |
| R1/2 | 0209 21 00 | 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

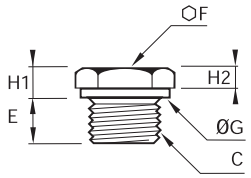
Conforms generally to standard BNA 229 (with the exception of M5 model)
metric thread ISO - standard ISO 228-1
parallel BSP threads - standard NFE 03-054

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



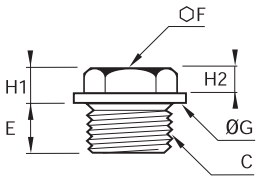

| C | | E | F | G | H1 | H2 | kg |
|---|---|---|---|---|---|---|---|
| G1/8 | 0200 10 00 | 7 | 14 | 13,7 | 5,5 | 4 | 0,012 |
| G1/4 | 0200 13 00 | 8,5 | 17 | 16,7 | 5,5 | 4 | 0,019 |

| 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



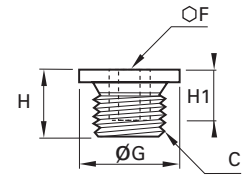

| C | | E | F | G | H1 | H2 | kg |
|---|---|---|---|---|---|---|---|
| G3/8 | 0201 17 00 | 10 | 17 | 21,7 | 6,5 | 4,5 | 0,026 |
| G1/2 | 0201 21 00 | 10 | 22 | 26,7 | 7,5 | 5 | 0,040 |
| G3/4 | 0201 27 00 | 11 | 22 | 31,7 | 8,5 | 6 | 0,044 |
| G1" | 0201 34 00 | 11 | 27 | 39,7 | 8,5 | 6 | 0,080 |
| G1"1/4 | 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



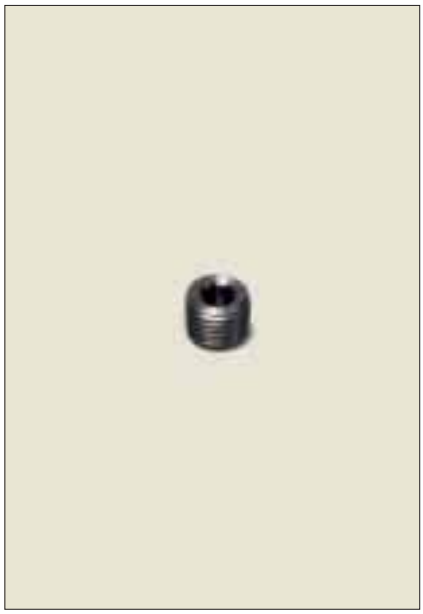
brass



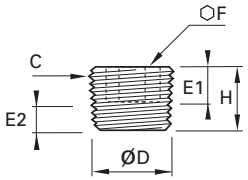

| C | | E | F | G | H | H1 | kg |
|---|---|---|---|---|---|---|---|
| M12X1 | * 0202 65 00 | 9 | 6 | 17 | 11 | 8 | 0,008 |
| M12X1,25 | * 0202 66 00 | 9 | 6 | 17 | 11 | 8 | 0,009 |
| M14X1,5 | * 0202 71 00 | 10 | 6 | 19 | 13 | 10 | 0,015 |
| M16X1,5 | * 0202 75 00 | 10 | 8 | 22 | 13 | 10 | 0,019 |
| 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**

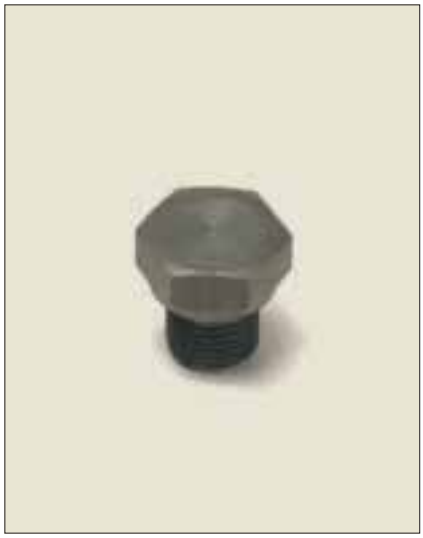



| C BSP | | ØD | E1 | E1 mini | E2 maxi | F | H | kg |
|---|---|---|---|---|---|---|---|---|
| R1/8 | 0206 10 00 | 9,728 | 6 | 3,1 | 4,9 | 5 | 8 | 0,003 |
| R1/4 | 0206 13 00 | 13,157 | 8 | 4,7 | 7,3 | 6 | 10 | 0,007 |
| R3/8 | 0206 17 00 | 16,662 | 8 | 5,1 | 7,7 | 8 | 11 | 0,012 |
| R1/2 | 0206 21 00 | 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 |

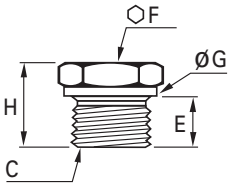
| C NPT | | ØD | E1 | E1 mini | E2 maxi | F | H | kg |
|---|---|---|---|---|---|---|---|---|
| 1/16 | 0206 08 00 | 7,800 | 6 | 3,8 | 6,4 | 4 | 7 | 0,002 |
| 1/8 | 0206 11 00 | 10,242 | 6 | 3,2 | 5 | 5 | 8 | 0,003 |
| 1/4 | 0206 14 00 | 13,616 | 8 | 4,4 | 7,2 | 6 | 10 | 0,007 |
| 3/8 | 0206 18 00 | 17,055 | 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 |

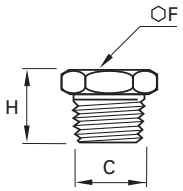
| C | | E | F | G | H | kg |
|---|---|---|---|---|---|---|
| M8x1,25 | 0210 57 00 | 8 | 14 | 12 | 15 | 0,011 |
| M10x1 | 0210 60 00 | 8 | 14 | 14 | 15 | 0,013 |
| M12x1,25 | 0210 66 00 | 10 | 17 | 17 | 18 | 0,021 |
| M14x1,25 | 0210 70 00 | 11 | 19 | 19 | 20 | 0,032 |

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**

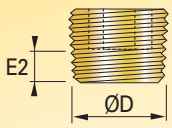



| C BSP | | F | H | kg |
|---|---|---|---|---|
| R1/8 | 0216 10 00 | 13 | 16 | 0,012 |
| R1/4 | 0216 13 00 | 17 | 19 | 0,024 |
| R3/8 | 0216 17 00 | 19 | 21 | 0,038 |
| R1/2 | 0216 21 00 | 22 | 23 | 0,060 |

| 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.

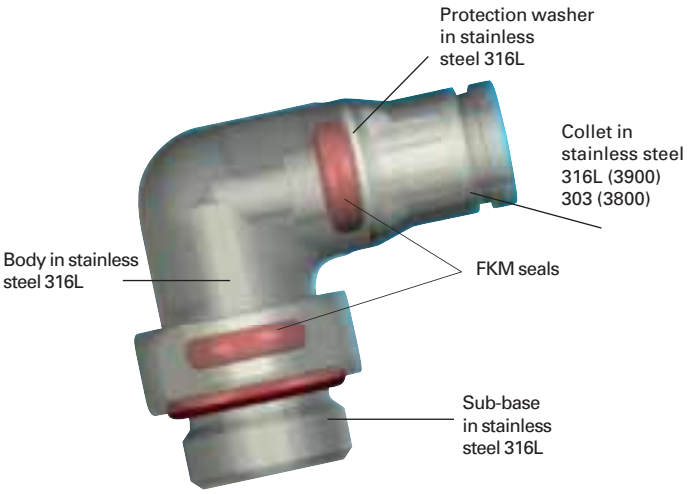
RoHs
Reduction of Hazardous Substances – 002/95/CE.





## 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*<br>depending on the type and size of the tubing.<br>* 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<br>Washer : stainless steel 316 L<br>Collet :<br>- stainless steel 316L (LF 3900)<br>- stainless steel 303 (LF 3800)<br>«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 :

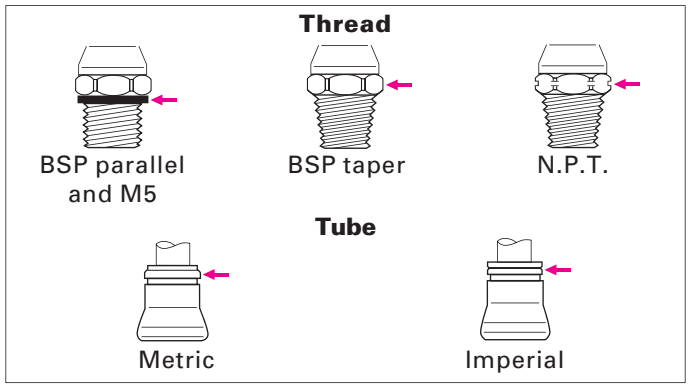
- food process
- medical and pharmaceutical industries
- chemical and petrochemical industries
- paper industry

## 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



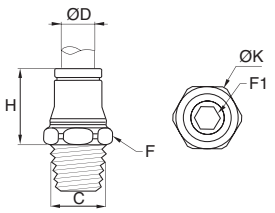
Please refer to section K for Legris fluoropolymer FEP tubing.

# threaded fittings for metric tube

## 3905/3805 male stud, BSP taper



**stainless steel**



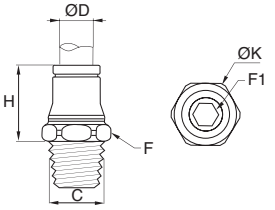

*this fitting has an internal hexagon for assembly by allen key*

| 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**



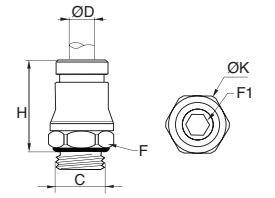

*this fitting has an internal hexagon for assembly by allen key*

| 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**



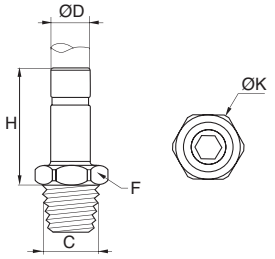

*this fitting has an internal hexagon for assembly by allen key*

| 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**

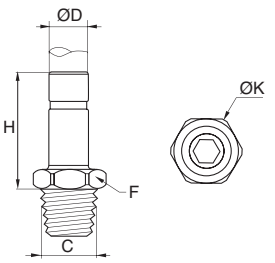



| ØD | C | | | F | H | kg |
|---|---|---|---|---|---|---|
| 4 | R1/8 | 3921 04 10 | 3821 04 10 | 10 | 21 | 0,006 |
| 6 | R1/8 | 3921 06 10 | 3821 06 10 | 10 | 23 | 0,008 |
| 6 | R1/4 | 3921 06 13 | 3821 06 13 | 14 | 24 | 0,017 |
| 8 | R1/8 | 3921 08 10 | 3821 08 10 | 10 | 24 | 0,017 |
| 8 | R1/4 | 3921 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**

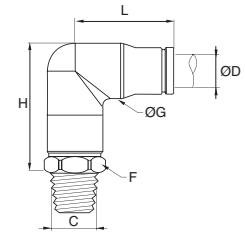



| ØD | C | | K | F | H | kg |
|---|---|---|---|---|---|---|
| 4 | 1/8 | 3821 04 11 | 12 | 11 | 21 | 0,006 |
| 6 | 1/8 | 3821 06 11 | 12 | 11 | 23 | 0,008 |
| 6 | 1/4 | 3821 06 14 | 15 | 14 | 24 | 0,016 |
| 8 | 1/8 | 3821 08 11 | 15 | 14 | 24 | 0,010 |
| 8 | 1/4 | 3821 08 14 | 15 | 14 | 25 | 0,016 |
| 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**



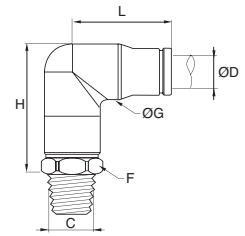

*this fitting orientates for positioning purposes*

| 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**



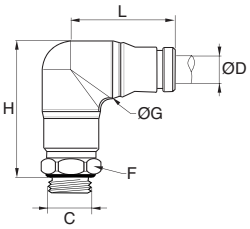

*this fitting orientates for positioning purposes*

| 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*

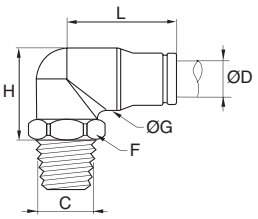
| ØD | C | | | F | G | H | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | M5x0.8 | 3999 04 19 | 3899 04 19 | 10 | 10 | 27 | 19 | 0,017 |
| 4 | G1/8 | 3999 04 10 | 3899 04 10 | 13 | 10 | 27 | 19 | 0,021 |
| 4 | G1/4 | 3999 04 13 | 3899 04 13 | 17 | 10 | 27 | 19 | 0,028 |
| 6 | M5x0.8 | 3999 06 19 | 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*

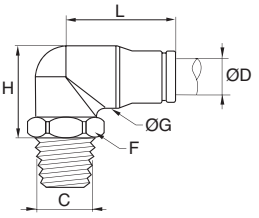
| ØD | C | | | F | G | H | L | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 3989 04 10 | 3889 04 10 | 13 | 11 | 18 | 19 | 0,019 |
| 4 | R1/4 | 3989 04 13 | 3889 04 13 | 14 | 11 | 18 | 19 | 0,026 |
| 6 | R1/8 | 3989 06 10 | 3889 06 10 | 13 | 12 | 20 | 24 | 0,026 |
| 6 | R1/4 | 3989 06 13 | 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*

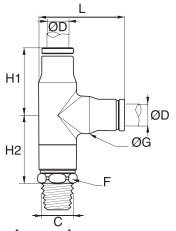
| ØD | C | | F | G | H | L | kg |
|---|---|---|---|---|---|---|---|
| 4 | 1/8 | 3889 04 11 | 13 | 10 | 17,5 | 19 | 0,016 |
| 6 | 1/8 | 3889 06 11 | 13 | 12,5 | 20 | 22,5 | 0,022 |
| 6 | 1/4 | 3889 06 14 | 14 | 12,5 | 20 | 22,5 | 0,030 |
| 8 | 1/8 | 3889 08 11 | 13 | 15 | 25 | 24 | 0,028 |
| 8 | 1/4 | 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**



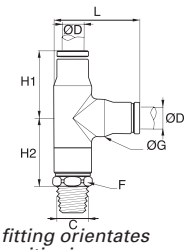

*this fitting orientates for positioning purposes*

| 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**



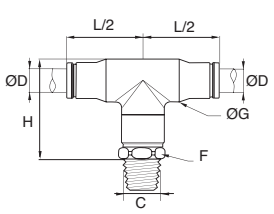

*this fitting orientates for positioning purposes*

| 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**



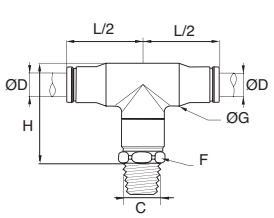

*this fitting orientates for positioning purposes*

| 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**



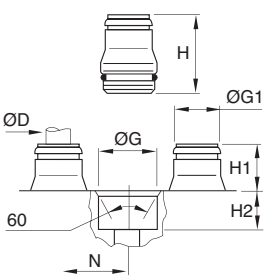

*this fitting orientates for positioning purposes*

| 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

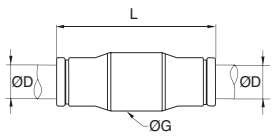
- eliminates the need to cut threads
- allows compact assembly with reduced height
- provides instant connection and disconnection of the tube

# tube-to-tube fittings for metric tubing

## 3906/3806 equal straight connector



stainless steel

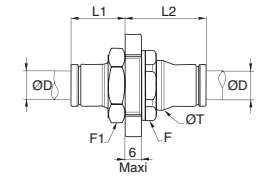



| ØD | | | G | L | kg |
|---|---|---|---|---|---|
| 4 | 3906 04 00 | 3806 04 00 | 10 | 30 | 0,009 |
| 6 | 3906 06 00 | 3806 06 00 | 12 | 37 | 0,015 |
| 8 | 3906 08 00 | 3806 08 00 | 15 | 38 | 0,020 |
| 10 | 3906 10 00 | 3806 10 00 | 17 | 49 | 0,032 |
| 12 | 3906 12 00 | 3806 12 00 | 19,5 | 49,5 | 0,039 |

## 3916/3816 equal bulkhead connector




stainless steel

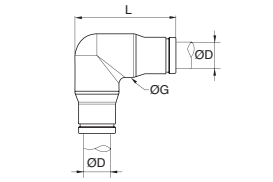



| ØD | | | F | F1 | L1 | L2 | T | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 3916 04 00 | 3816 04 00 | 14 | 13 | 15 | 18 | 13 | 0,018 |
| 6 | 3916 06 00 | 3816 06 00 | 17 | 17 | 19 | 21 | 15 | 0,028 |
| 8 | 3916 08 00 | 3816 08 00 | 19 | 19 | 20 | 22 | 17 | 0,035 |
| 10 | 3916 10 00 | 3816 10 00 | 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

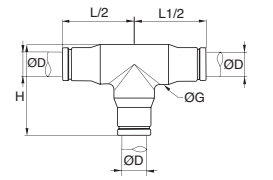



| ØD | | | G | L | kg |
|---|---|---|---|---|---|
| 4 | 3902 04 00 | 3802 04 00 | 10 | 24 | 0,015 |
| 6 | 3902 06 00 | 3802 06 00 | 12 | 30 | 0,023 |
| 8 | 3902 08 00 | 3802 08 00 | 14,5 | 32,2 | 0,031 |
| 10 | 3902 10 00 | 3802 10 00 | 17 | 39 | 0,048 |
| 12 | 3902 12 00 | 3802 12 00 | 20 | 43 | 0,063 |

## 3904/3804 equal tee



stainless steel

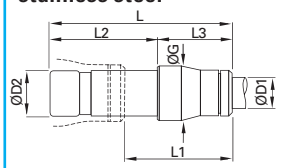



| ØD | | | G | H | L/2 | kg |
|---|---|---|---|---|---|---|
| 4 | 3904 04 00 | 3804 04 00 | 11 | 24 | 19 | 0,020 |
| 6 | 3904 06 00 | 3804 06 00 | 12 | 30 | 24 | 0,031 |
| 8 | 3904 08 00 | 3804 08 00 | 14,5 | 32 | 25 | 0,041 |
| 10 | 3904 10 00 | 3804 10 00 | 17 | 39 | 31 | 0,062 |
| 12 | 3904 12 00 | 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)

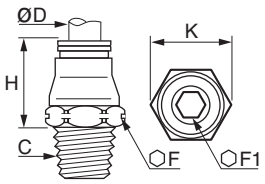


# threaded fittings for imperial tubing

## 3805 male stud, NPT



**stainless steel**



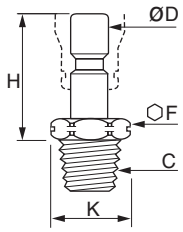

*this fitting has an internal hexagon for assembly by allen key*

| 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**



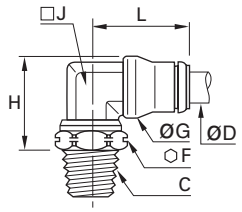

| ØD | C | | F | H | K | kg |
|---|---|---|---|---|---|---|
| 3/16 | 1/8 | 3821 55 11 | 11 | 21 | 12 | 0,008 |
| 1/4 | 1/8 | 3821 56 11 | 11 | 23 | 12 | 0,010 |
| 1/4 | 1/4 | 3821 56 14 | 14 | 24 | 15 | 0,018 |
| 5/16 | 1/8 | 3821 08 11 | 11 | 24 | 12 | 0,012 |
| 5/16 | 1/4 | 3821 08 14 | 14 | 25 | 15 | 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**

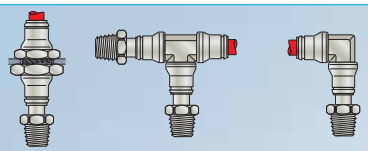



*this fitting orientates for positioning purposes*

| 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.

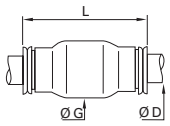


# tube-to-tube fittings for imperial tube

## 3806 equal straight connector



stainless steel

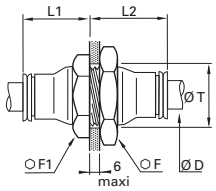



| ØD | | G | L | kg |
|---|---|---|---|---|
| 3/16 | 3806 55 00 | 11 | 28,5 | 0,008 |
| 1/4 | 3806 56 00 | 12,5 | 34 | 0,014 |
| 5/16 | 3806 08 00 | 15 | 36 | 0,020 |
| 3/8 | 3806 60 00 | 17 | 45 | 0,034 |
| 1/2 | 3806 62 00 | 21 | 47 | 0,046 |

## 3816 equal bulkhead connector



stainless steel

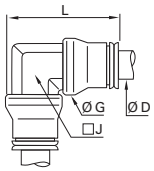



| ØD | | F | F1 | L1 | L2 | T | kg |
|---|---|---|---|---|---|---|---|
| 3/16 | 3816 55 00 | 13 | 14 | 15 | 21 | 12,5 | 0,018 |
| 1/4 | 3816 56 00 | 17 | 17 | 17 | 22,5 | 14,5 | 0,028 |
| 5/16 | 3816 08 00 | 19 | 19 | 19 | 24 | 16,5 | 0,036 |
| 3/8 | 3816 60 00 | 22 | 22 | 22 | 27,5 | 20,5 | 0,058 |
| 1/2 | 3816 62 00 | 27 | 27 | 24 | 29 | 22,5 | 0,072 |

## 3802 equal elbow



stainless steel

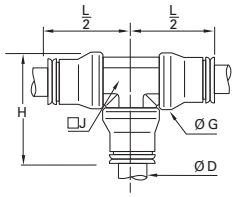



| ØD | | G | J | L | kg |
|---|---|---|---|---|---|
| 3/16 | 3802 55 00 | 11 | 7 | 24,5 | 0,010 |
| 1/4 | 3802 56 00 | 12,5 | 9 | 28,5 | 0,016 |
| 5/16 | 3802 08 00 | 15 | 11 | 31,5 | 0,026 |
| 3/8 | 3802 60 00 | 17 | 13 | 38,5 | 0,042 |
| 1/2 | 3802 62 00 | 21 | 15 | 42 | 0,052 |

## 3804 equal tee



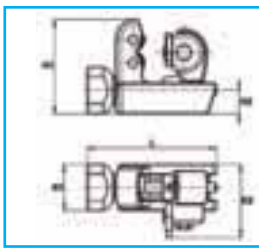
stainless steel




| 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

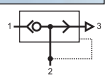
Perfectly suited to stainless steel functions:

- fluoropolymer FEP tubing
- polyethylene tubing
- semi-rigid nylon tubing
- flexible polyurethane tubing

## allowing direct exhaust of fluid



### quick exhaust valves



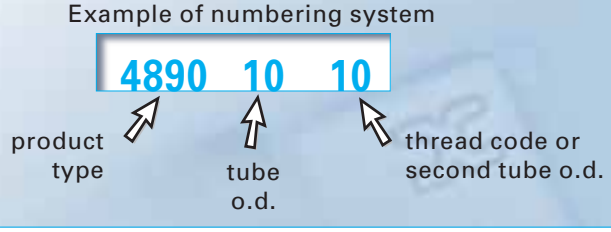

They enable to increase the cylinder rod displacement speed, allowing direct exhaust of compressed air.

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



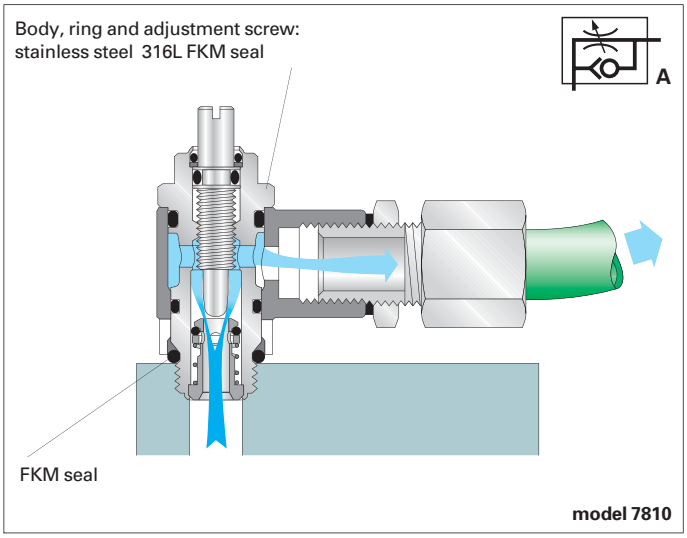


**You will find stainless function fittings on legris.com**

- 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 :**

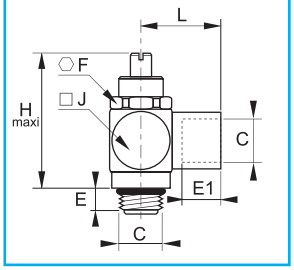
- Working pressure :
  7810 – 7812 : 1 to 10 bar
  7820 : 1 to 16 bar
  7822 : 1 to 40 bar
- Working temperature :
  7810 – 7812 : 0°c to + 70°C
  7820 – 7822 : -15° to + 120°C

## 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 |

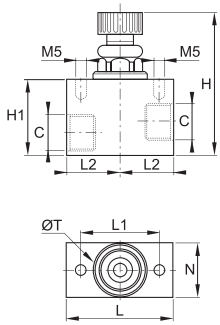
for pneumatic applications

## 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 |

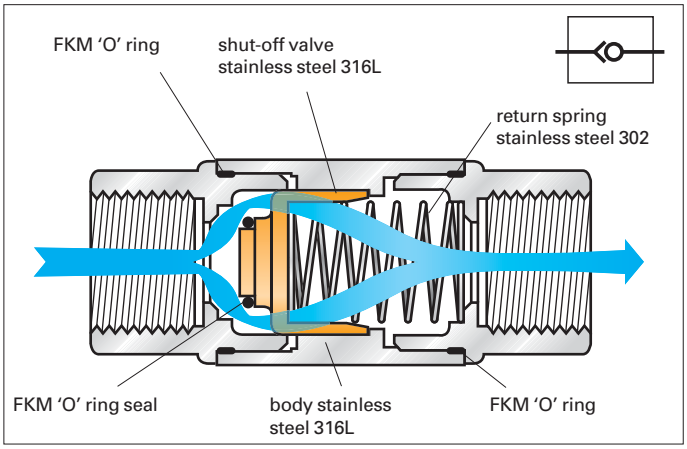
for pneumatic applications

| 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.

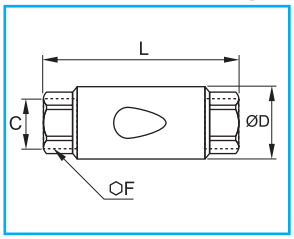
**technical specifications :**

- 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

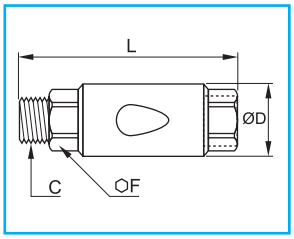





| C | DN | | ØD | F | L | kg |
|---|---|---|---|---|---|---|
| G1/8 | 10 | 4890 10 10 | 22 | 17 | 50 | 0,084 |
| G1/4 | 10 | 4890 13 13 | 22 | 17 | 50 | 0,074 |
| G3/8 | 15 | 4890 17 17 | 30 | 22 | 67 | 0,182 |
| G1/2 | 15 | 4890 21 21 | 30 | 24 | 71 | 0,196 |
| G3/4 | 20 | 4890 27 27 | 35 | 32 | 78 | 0,288 |
| G1" | 25 | 4890 34 34 | 42 | 38 | 90 | 0,416 |

## 4891 unidirectional, male-female, BSP parallel

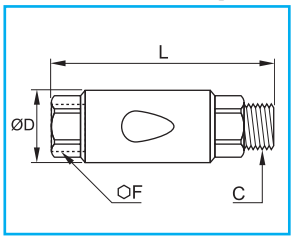





| C | DN | | ØD | F | L | kg |
|---|---|---|---|---|---|---|
| G1/8 | 10 | 4891 10 10 | 22 | 17 | 56 | 0,086 |
| G1/4 | 10 | 4891 13 13 | 22 | 17 | 58 | 0,082 |
| G3/8 | 15 | 4891 17 17 | 30 | 22 | 75 | 0,190 |
| G1/2 | 15 | 4891 21 21 | 30 | 24 | 79 | 0,280 |
| G3/4 | 20 | 4891 27 27 | 35 | 32 | 87 | 0,302 |
| G1" | 25 | 4891 34 34 | 42 | 38 | 102 | 0,424 |

## 4892 unidirectional, female-male, BSP parallel

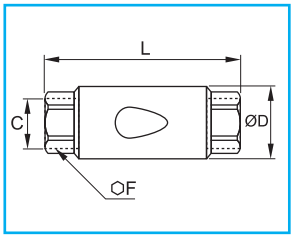





| C | DN | | ØD | F | L | kg |
|---|---|---|---|---|---|---|
| G1/8 | 10 | 4892 10 10 | 22 | 17 | 56 | 0,086 |
| G1/4 | 10 | 4892 13 13 | 22 | 17 | 58 | 0,082 |
| G3/8 | 15 | 4892 17 17 | 30 | 22 | 75 | 0,190 |
| G1/2 | 15 | 4892 21 21 | 30 | 24 | 79 | 0,280 |
| G3/4 | 20 | 4892 27 27 | 35 | 32 | 87 | 0,302 |
| G1" | 25 | 4892 34 34 | 42 | 38 | 102 | 0,424 |

## 4895 unidirectional, female-female, NPT

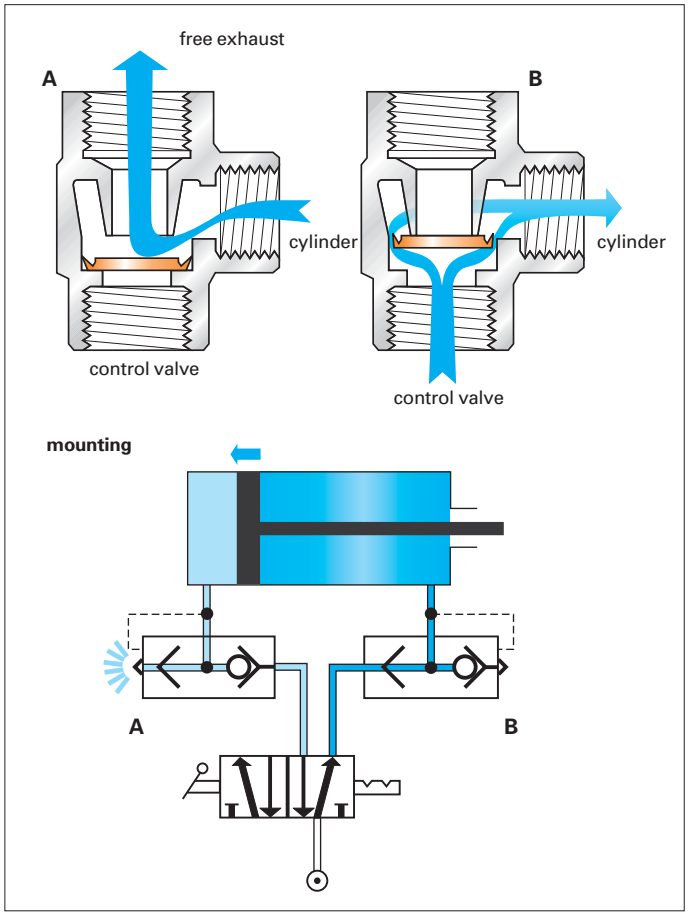





| C | DN | | ØD | F | L | kg |
|---|---|---|---|---|---|---|
| 1/8 | 10 | 4895 11 11 | 22 | 17 | 50 | 0,084 |
| 1/4 | 10 | 4895 14 14 | 22 | 17 | 54 | 0,080 |
| 3/8 | 15 | 4895 18 18 | 30 | 22 | 73 | 0,198 |
| 1/2 | 15 | 4895 22 22 | 30 | 24 | 77 | 0,213 |

On request, we can provide male/female models with NPT threads and other types of seal (nitrile, EPDM, FDA).

# quick exhaust valves



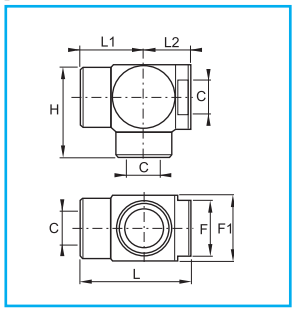

Stainless steel quick exhaust valves enable the increase of cylinder rod displacement speed, allowing **direct exhaust** of compressed air. Thus, they contribute to the reduction of cycle time.

**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**

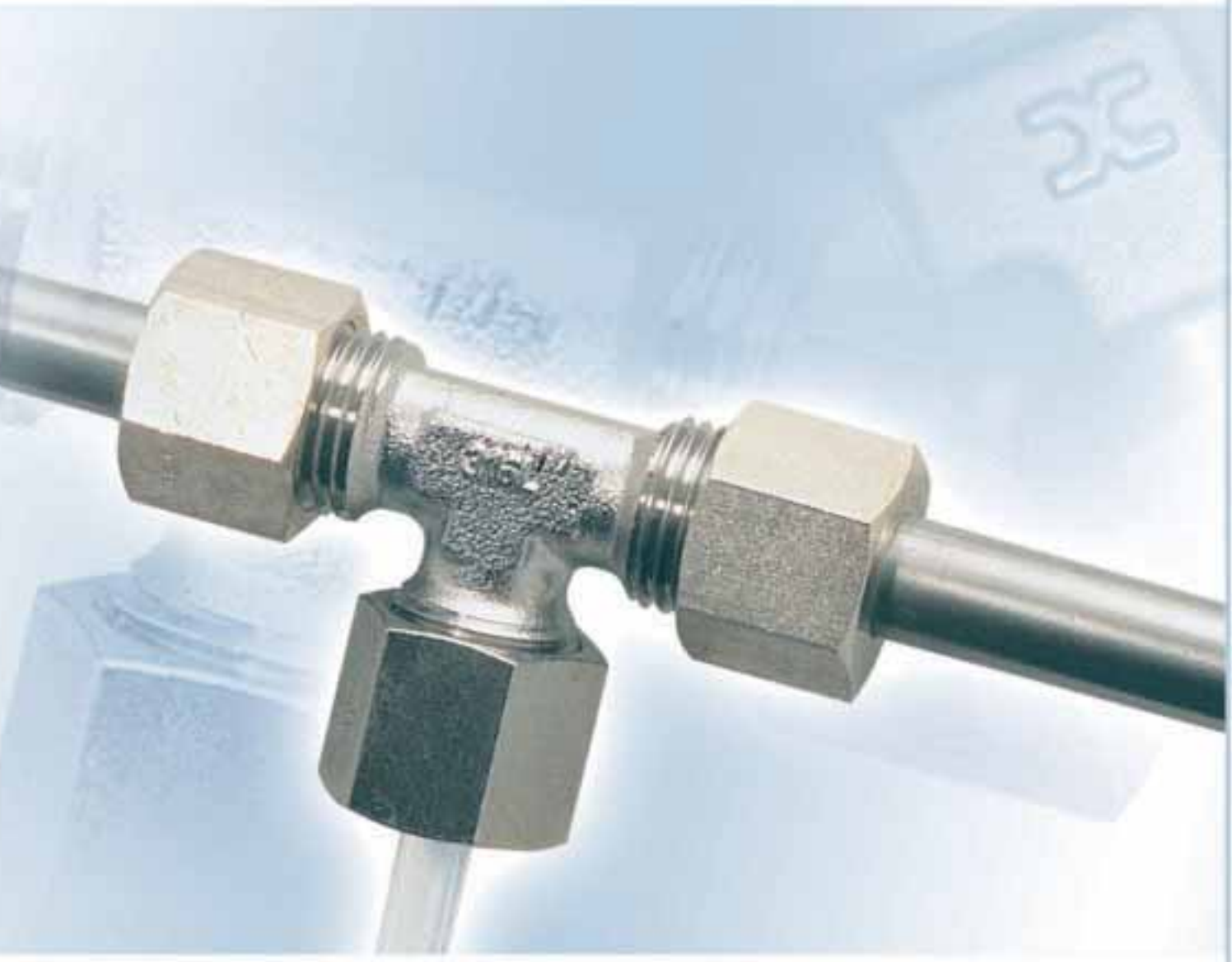
- **fluoropolymer FEP tubing** from:
  4 to 12 o.d.
- **polyethylene tubing** from:
  4 to 14 o.d.
- **semi-rigid nylon tubing and flexible polyurethane tubing** from:
  4 to 16 o.d. (semi-rigid nylon)
  4 to 14 o.d. (flexible polyurethane)







# stainless steel compression fittings



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# principle of stainless steel compression fittings





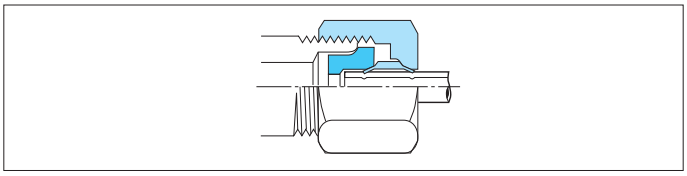
Legris has used its long experience of brass compression fittings to develop a range of **stainless steel compression fittings**.
These stainless steel fittings are resistant to aggressive or corrosive environments and fluids and withstand high temperatures and pressures. They are designed to be used 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<br>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<br>2.0 | 8<br>3.0 | 10<br>4.0 | 12<br>6.5 | 16<br>9.5 |

# advantages of stainless steel compression fittings

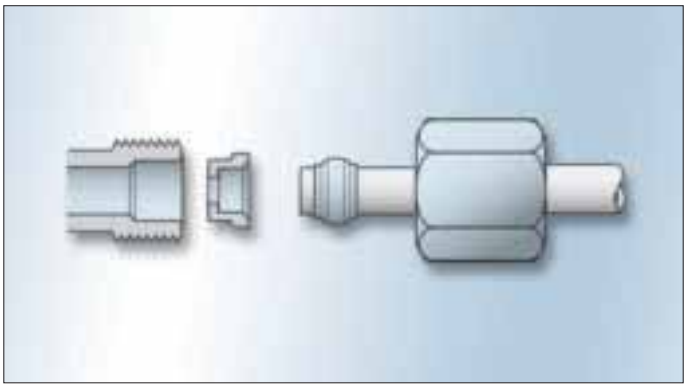


## meeting the needs of industry

- all components are stainless steel 316L
- resistant to aggressive and corrosive environments
- resistant to corrosive fluids
- withstands high temperatures and pressures

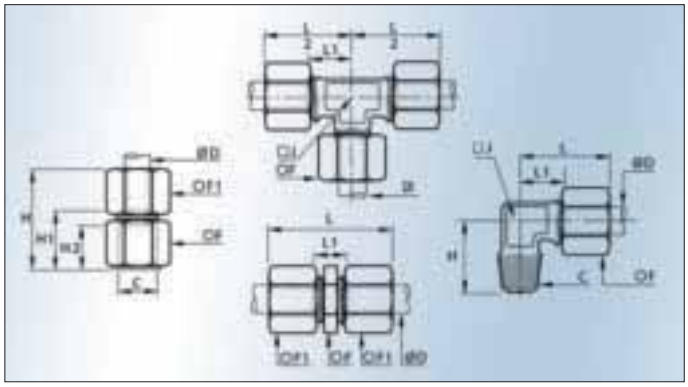
## wide range of working pressures

- 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
Page H6



**1814** parallel
Page H6



**1809** taper
Page H7



**1809** NPT
Page H7



**1820** taper
Page H7



**1820** NPT
Page H7



## tube to tube couplings

**1806**
Page H8



**1816**
Page H8



**1802**
Page H8



**1804**
Page H8



## stainless steel accessories

**1866**
Page H9



**1824**
Page H10



**1810**
Page H10



**1822**
Page H10



**1827**
Page H10



**corrosion resistance properties of stainless steel grade 316L**

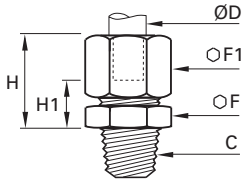
Resists :

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.

## 1805 male stud coupling, BSP taper



stainless steel

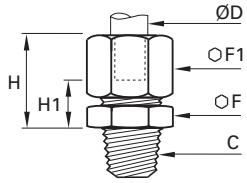



| ØD | C | | F | F1 | H maxi | H1 | kg |
|---|---|---|---|---|---|---|---|
| 6 | R1/8 | 1805 06 10 | 12 | 13 | 19,5 | 7,5 | 0,018 |
| 6 | R1/4 | 1805 06 13 | 14 | 13 | 19,5 | 7,5 | 0,026 |
| 8 | R1/8 | 1805 08 10 | 13 | 14 | 21 | 7 | 0,020 |
| 8 | R1/4 | 1805 08 13 | 14 | 14 | 21 | 7 | 0,025 |
| 10 | 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

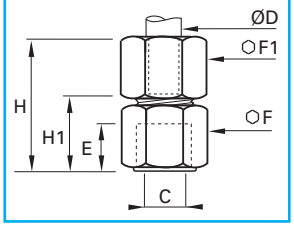



| ØD | C | | F | F1 | H maxi | H1 | kg |
|---|---|---|---|---|---|---|---|
| 6 | 1/8 | 1805 06 11 | 12 | 13 | 19,5 | 7,5 | 0,020 |
| 6 | 1/4 | 1805 06 14 | 14 | 13 | 19,5 | 7,5 | 0,028 |
| 6 | 3/8 | 1805 06 18 | 19 | 13 | 20,5 | 8,5 | 0,034 |
| 6 | 1/2 | 1805 06 22 | 22 | 13 | 21,5 | 9,5 | 0,050 |
| 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



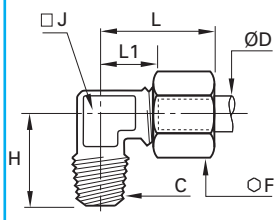

| ØD | C | | E | F | F1 | H maxi | H1 | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 1814 06 10 | 7,5 | 14 | 13 | 29 | 17 | 0,025 |
| 6 | G1/4 | 1814 06 13 | 11 | 17 | 13 | 29 | 21 | 0,034 |
| 8 | G1/4 | 1814 08 13 | 11 | 17 | 14 | 34,5 | 20,5 | 0,035 |
| 10 | G3/8 | 1814 10 17 | 11,5 | 22 | 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

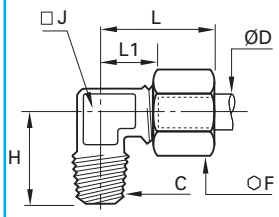



| ØD | C | | F | H | J | L maxi | L1 | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | R1/8 | 1809 06 10 | 13 | 18 | 8 | 25,5 | 13,5 | 0,020 |
| 6 | R1/4 | 1809 06 13 | 13 | 23 | 10 | 25,5 | 13,5 | 0,030 |
| 8 | R1/8 | 1809 08 10 | 14 | 20,5 | 10 | 28,5 | 14,5 | 0,026 |
| 8 | R1/4 | 1809 08 13 | 14 | 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

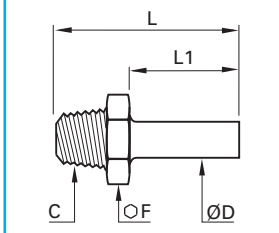



| ØD | C | | F | H | J | L maxi | L1 | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | 1/8 | 1809 06 11 | 13 | 19,5 | 8 | 25,5 | 13,5 | 0,022 |
| 6 | 1/4 | 1809 06 14 | 13 | 25,5 | 10 | 25,5 | 13,5 | 0,032 |
| 6 | 3/8 | 1809 06 18 | 13 | 28 | 12 | 27 | 15 | 0,048 |
| 6 | 1/2 | 1809 06 22 | 13 | 34 | 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

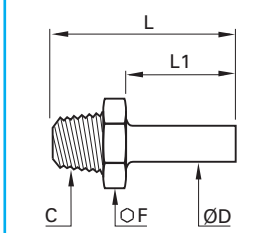



| ØD | C | | F | L | L1 | kg |
|---|---|---|---|---|---|---|
| 6 | R1/8 | 1820 06 10 | 12 | 26,5 | 15 | 0,010 |
| 6 | R1/4 | 1820 06 13 | 14 | 31 | 15 | 0,018 |
| 8 | R1/8 | 1820 08 10 | 12 | 28,5 | 17 | 0,008 |
| 8 | R1/4 | 1820 08 13 | 14 | 33 | 17 | 0,016 |
| 10 | R1/4 | 1820 10 13 | 14 | 36 | 20 | 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



=

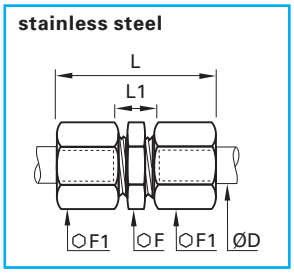


# tube to tube couplings

## 1806 equal connector



stainless steel

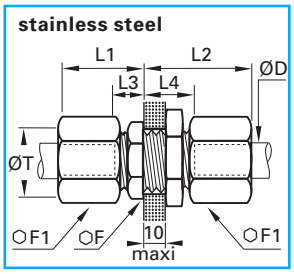



| ØD | | F | F1 | L maxi | L1 | kg |
|---|---|---|---|---|---|---|
| 6 | 1806 06 00 | 12 | 13 | 34,5 | 11 | 0,026 |
| 8 | 1806 08 00 | 13 | 14 | 38,5 | 10 | 0,030 |
| 10 | 1806 10 00 | 17 | 19 | 46 | 13 | 0,066 |
| 12 | 1806 12 00 | 19 | 22 | 47 | 13 | 0,086 |
| 16 | 1806 16 00 | 24 | 27 | 51 | 13 | 0,106 |

## 1816 equal bulkhead coupling



stainless steel

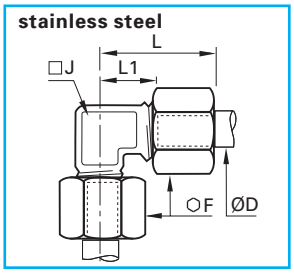



| ØD | | F | F1 | L1 maxi | L2 maxi | L3 | L4 | T mini | kg |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 1816 06 00 | 13 | 13 | 19 | 28 | 7,5 | 17,5 | 10,5 | 0,037 |
| 8 | 1816 08 00 | 14 | 14 | 20 | 29 | 7 | 17 | 12,5 | 0,047 |
| 10 | 1816 10 00 | 19 | 19 | 25 | 33 | 9 | 19 | 16,5 | 0,101 |
| 12 | 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

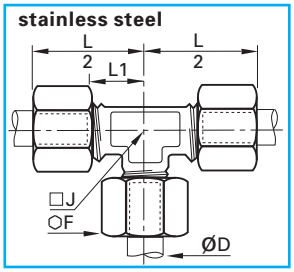



| ØD | | F | J | L maxi | L1 | kg |
|---|---|---|---|---|---|---|
| 6 | 1802 06 00 | 13 | 8 | 25,5 | 13,5 | 0,026 |
| 8 | 1802 08 00 | 14 | 10 | 28,5 | 14,5 | 0,034 |
| 10 | 1802 10 00 | 19 | 12 | 32,5 | 16 | 0,068 |
| 12 | 1802 12 00 | 22 | 14 | 34 | 17 | 0,094 |
| 16 | 1802 16 00 | 27 | 18 | 39,5 | 21 | 0,126 |

## 1804 equal tee



stainless steel



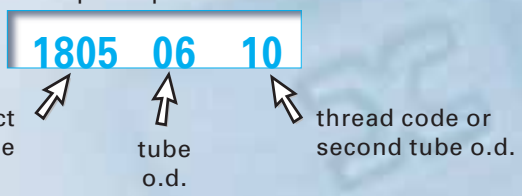

| ØD | | F | J | L/2 | L1 | kg |
|---|---|---|---|---|---|---|
| 6 | 1804 06 00 | 13 | 8 | 25,5 | 13,5 | 0,040 |
| 8 | 1804 08 00 | 14 | 10 | 28,5 | 14,5 | 0,050 |
| 10 | 1804 10 00 | 19 | 12 | 32,5 | 16 | 0,096 |
| 12 | 1804 12 00 | 22 | 14 | 34 | 17 | 0,134 |
| 16 | 1804 16 00 | 27 | 18 | 39,5 | 21 | 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.



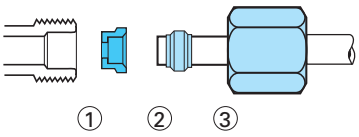
② the stainless steel compression olive fits on the end of the tube and is inserted between the reduction piece and the sleeve nut.



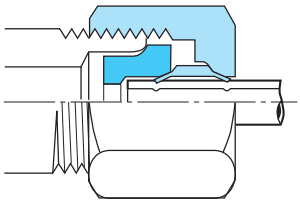


③ the stainless steel sleeve nut,

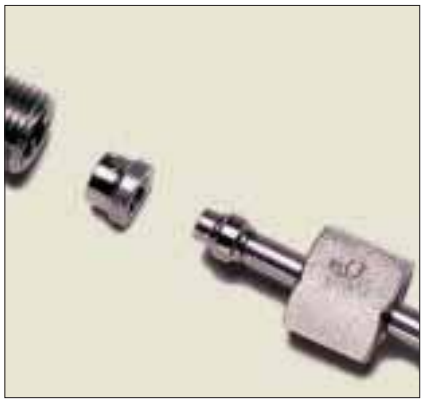




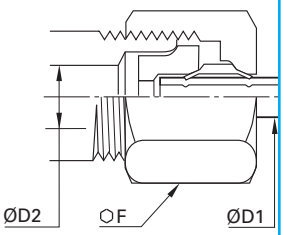

which is slightly longer than the standard sleeve nut in order to accommodate the extended length of the reduction piece.



## 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)



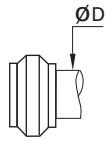




## 1824 olive



stainless steel

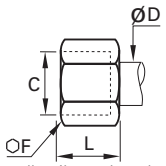



| ØD | | kg |
|---|---|---|
| 6 | 1824 06 00 | 0,001 |
| 8 | 1824 08 00 | 0,002 |
| 10 | 1824 10 00 | 0,003 |
| 12 | 1824 12 00 | 0,004 |
| 16 | 1824 16 00 | 0,006 |

## 1810 sleeve nut



stainless steel



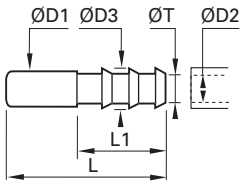

*internally silver plated*

| 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



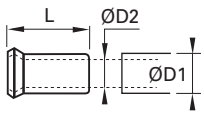

| ØD1 | ØD2 | | ØD3 | L | L1 | ØT passage mini. | kg |
|---|---|---|---|---|---|---|---|
| 6 | 7 | 1822 06 07 | 9 | 37,5 | 22,5 | 6 | 0,008 |
| 8 | 6 | 1822 08 06 | 8 | 40 | 22,5 | 5 | 0,008 |
| 8 | 7 | 1822 08 07 | 9 | 40 | 22,5 | 6 | 0,008 |
| 8 | 10 | 1822 08 10 | 12,5 | 40 | 22,5 | 9 | 0,012 |
| 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



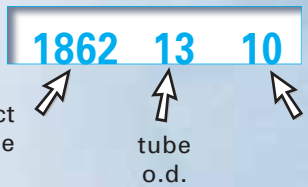
**0285**
NPT
page J8



**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.

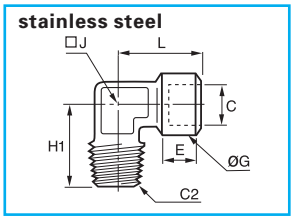
Example of product code



## 1844 equal male stud elbow BSP taper, female BSP parallel



stainless steel

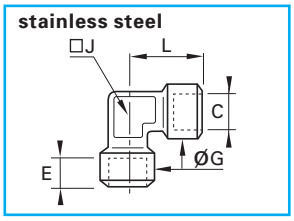



| C1 | C2 | | E | G | H1 | J | L | kg |
|---|---|---|---|---|---|---|---|---|
| G1/8 | R1/8 | 1844 10 10 | 7,5 | 15 | 20,5 | 10 | 22,5 | 0,025 |
| G1/4 | R1/4 | 1844 13 13 | 12 | 18,5 | 27,5 | 12 | 26,5 | 0,046 |
| G3/8 | R3/8 | 1844 17 17 | 12 | 23,5 | 28 | 14 | 30 | 0,070 |
| G1/2 | R1/2 | 1844 21 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

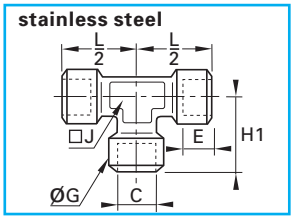



| C | | E | G | J | L | kg |
|---|---|---|---|---|---|---|
| G1/8 | 1843 10 10 | 7,5 | 17,5 | 12 | 22,5 | 0,044 |
| G1/4 | 1843 13 13 | 11 | 18,5 | 15 | 26,5 | 0,051 |
| G3/8 | 1843 17 17 | 11,5 | 23,5 | 18 | 29 | 0,077 |
| G1/2 | 1843 21 21 | 15 | 28 | 23 | 38 | 0,160 |
| G3/4 | 1843 27 27 | 16,5 | 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

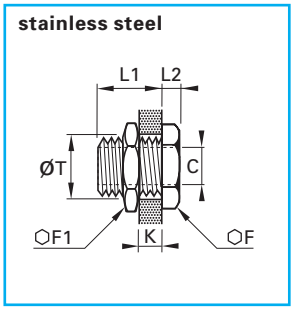



| C | | E | G | H1 | J | L/2 | kg |
|---|---|---|---|---|---|---|---|
| G1/8 | 1845 10 10 | 7,5 | 17,5 | 22,5 | 12 | 22,5 | 0,061 |
| G1/4 | 1845 13 13 | 11 | 18,5 | 26,5 | 15 | 26,5 | 0,074 |
| G3/8 | 1845 17 17 | 11,5 | 23,5 | 29 | 18 | 29 | 0,147 |
| G1/2 | 1845 21 21 | 15 | 28 | 38 | 23 | 38 | 0,224 |
| 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

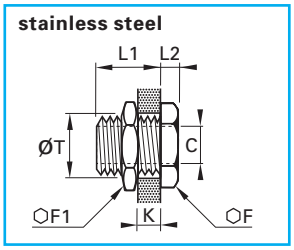



| C | | F | F1 | K maxi | L1 | L2 | T mini | kg |
|---|---|---|---|---|---|---|---|---|
| G1/8 | 1817 00 10 | 19 | 22 | 9 | 14 | 4 | 16,5 | 0,033 |
| G1/4 | 1817 00 13 | 24 | 27 | 15 | 21 | 4 | 20,5 | 0,057 |
| G3/8 | 1817 00 17 | 30 | 32 | 14 | 21 | 5 | 26,5 | 0,096 |
| G1/2 | 1817 00 21 | 32 | 36 | 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

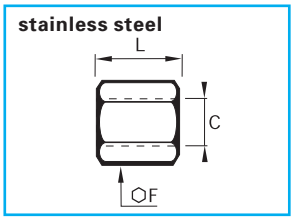



| C | | F | F1 | K maxi | L1 | L2 | T mini | kg |
|---|---|---|---|---|---|---|---|---|
| 1/8 | 1871 00 11 | 19 | 22 | 9 | 14 | 5 | 16,5 | 0,377 |
| 1/4 | 1871 00 14 | 24 | 27 | 17 | 23 | 5 | 20,5 | 0,708 |
| 3/8 | 1871 00 18 | 30 | 32 | 18 | 23 | 5 | 26,5 | 0,111 |
| 1/2 | 1871 00 22 | 32 | 36 | 22 | 29 | 6 | 28,5 | 0,141 |

## 1855 double female sleeve, BSP parallel



stainless steel

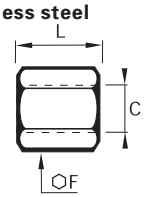



| C | | F | L | kg |
|---|---|---|---|---|
| G1/8 | 1855 10 10 | 14 | 17 | 0,013 |
| G1/4 | 1855 13 13 | 17 | 24 | 0,023 |
| G3/8 | 1855 17 17 | 22 | 25 | 0,042 |
| G1/2 | 1855 21 21 | 27 | 32 | 0,077 |
| G3/4 | 1855 27 27 | 32 | 35 | 0,116 |
| G1" | 1855 34 34 | 41 | 40 | 0,227 |

## 1870 double female sleeve, NPT



stainless steel

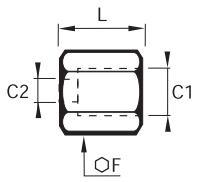



| C | | F | L | kg |
|---|---|---|---|---|
| 1/8 | 1870 11 11 | 14 | 19 | 0,016 |
| 1/4 | 1870 14 14 | 17 | 28 | 0,033 |
| 3/8 | 1870 18 18 | 22 | 28 | 0,055 |
| 1/2 | 1870 22 22 | 27 | 35 | 0,104 |

## 1862 reducer/increaser double female sleeve, BSP parallel



stainless steel

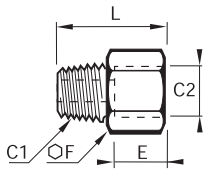



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| G1/4 | G1/8 | 1862 13 10 | 17 | 20,5 | 0,023 |
| G3/8 | G1/8 | 1862 17 10 | 22 | 21 | 0,042 |
| G3/8 | G1/4 | 1862 17 13 | 22 | 24,5 | 0,048 |
| G1/2 | G1/4 | 1862 21 13 | 27 | 28,5 | 0,084 |
| G1/2 | G3/8 | 1862 21 17 | 27 | 29 | 0,080 |
| G3/4 | 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

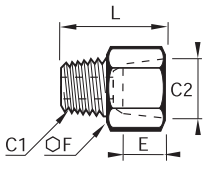



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| 1/8 | G1/8 | 1864 11 10 | 7,5 | 14 | 21,5 | 0,014 |
| 1/4 | G1/4 | 1864 14 13 | 11 | 17 | 30 | 0,027 |
| 3/8 | G3/8 | 1864 18 17 | 11,5 | 22 | 31 | 0,043 |
| 1/2 | G1/2 | 1864 22 21 | 15 | 27 | 39,5 | 0,079 |

## 1867 male BSP taper to female NPT adaptor



stainless steel

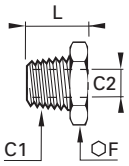



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| R1/8 | 1/8 | 1867 10 11 | 8 | 14 | 21 | 0,014 |
| R1/4 | 1/4 | 1867 13 14 | 11,5 | 17 | 28,5 | 0,027 |
| R3/8 | 3/8 | 1867 17 18 | 12 | 22 | 29,5 | 0,044 |
| R1/2 | 1/2 | 1867 21 22 | 15,5 | 27 | 37,5 | 0,080 |

## 1863 reducer male BSP taper to female BSP parallel



stainless steel

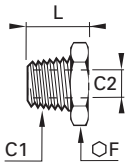



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| R1/4 | G1/8 | 1863 13 10 | 14 | 16 | 0,008 |
| R3/8 | G1/8 | 1863 17 10 | 17 | 16,5 | 0,018 |
| R3/8 | G1/4 | 1863 17 13 | 17 | 16,5 | 0,011 |
| R1/2 | G1/4 | 1863 21 13 | 22 | 21 | 0,035 |
| R1/2 | G3/8 | 1863 21 17 | 22 | 21 | 0,022 |
| R3/4 | 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



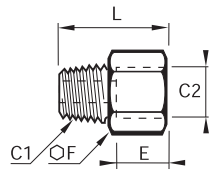

| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| 1/4 | 1/8 | 1872 14 11 | 14 | 16 | 0,012 |
| 3/8 | 1/8 | 1872 18 11 | 19 | 16,5 | 0,026 |
| 3/8 | 1/4 | 1872 18 14 | 19 | 16,5 | 0,020 |
| 1/2 | 1/4 | 1872 22 14 | 22 | 21 | 0,045 |
| 1/2 | 3/8 | 1872 22 18 | 22 | 21 | 0,035 |

# stainless steel accessories

## 1861 increaser male BSP taper to female BSP parallel



stainless steel

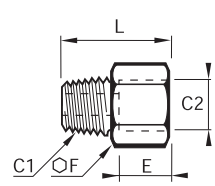



| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| R1/8 | G1/4 | 1861 10 13 | 11 | 17 | 24 | 0,021 |
| R1/8 | G3/8 | 1861 10 17 | 11,5 | 22 | 25 | 0,037 |
| R1/4 | G3/8 | 1861 13 17 | 11,5 | 22 | 28,5 | 0,041 |
| R1/4 | G1/2 | 1861 13 21 | 15 | 27 | 32,5 | 0,069 |
| R3/8 | G1/2 | 1861 17 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



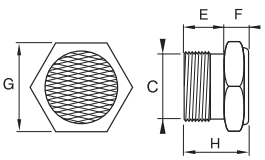

| C1 | C2 | | E | F | L | kg |
|---|---|---|---|---|---|---|
| 1/8 | 1/4 | 1873 11 14 | 14 | 17 | 25 | 0,026 |
| 1/8 | 3/8 | 1873 11 18 | 14 | 22 | 25 | 0,042 |
| 1/4 | 3/8 | 1873 14 18 | 14 | 22 | 28,5 | 0,047 |
| 1/4 | 1/2 | 1873 14 22 | 17,5 | 27 | 31 | 0,071 |
| 3/8 | 1/2 | 1873 18 22 | 17,5 | 27 | 31,5 | 0,0,72 |

# silencers

## 0682 threaded silencer, male BSP parallel



body stainless steel 316L

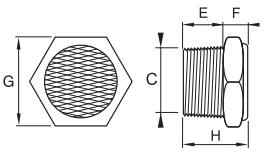



| C | | E | F | G | H | kg |
|---|---|---|---|---|---|---|
| G1/8 | 0682 00 10 | 8 | 7 | 14 | 15 | 0,009 |
| G1/4 | 0682 00 13 | 8 | 7 | 17 | 15 | 0,013 |
| G3/8 | 0682 00 17 | 10 | 8 | 22 | 18 | 0,020 |
| G1/2 | 0682 00 21 | 12 | 10 | 27 | 22 | 0,038 |
| G3/4 | 0682 00 27 | 15 | 12 | 32 | 27 | 0,066 |
| G1" | 0682 00 34 | 18 | 14 | 38 | 32 | 0,118 |

## 0683 threaded silencer, male NPT



body stainless steel 316L

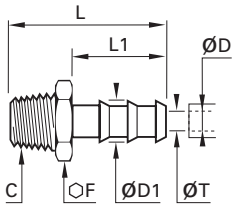



| C | | E | F | G | H | kg |
|---|---|---|---|---|---|---|
| 1/8 | 0683 00 11 | 7 | 7 | 14 | 14 | 0,010 |
| 1/4 | 0683 00 14 | 11 | 7 | 17 | 18 | 0,015 |
| 3/8 | 0683 00 18 | 11 | 8 | 22 | 19 | 0,023 |
| 1/2 | 0683 00 22 | 15 | 10 | 27 | 25 | 0,044 |

## 1823 tailpiece adaptor for rubber hose, male BSP taper



stainless steel

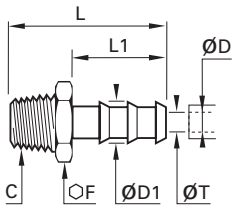



| ØD | C | | ØD1 | F | L | L1 | T mini | kg |
|---|---|---|---|---|---|---|---|---|
| 7 | R1/8 | 1823 07 10 | 9 | 10 | 34 | 22,5 | 5 | 0,009 |
| 7 | R1/4 | 1823 07 13 | 9 | 14 | 38,5 | 22,5 | 6 | 0,016 |
| 10 | R1/4 | 1823 10 13 | 12,2 | 14 | 38,5 | 22,5 | 7 | 0,018 |
| 10 | R3/8 | 1823 10 17 | 12,2 | 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

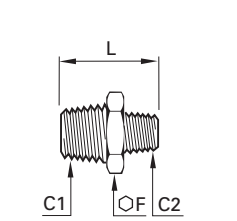



| ØD | C | | ØD1 | F | L | L1 | T mini | kg |
|---|---|---|---|---|---|---|---|---|
| 1/4 | 1/8 | 1823 56 11 | 8,3 | 10 | 34 | 22,5 | 5,3 | 0,011 |
| 1/4 | 1/4 | 1823 56 14 | 8,3 | 14 | 38,5 | 22,5 | 5,3 | 0,018 |
| 3/8 | 1/4 | 1823 60 14 | 11,7 | 14 | 38,5 | 22,5 | 8,5 | 0,020 |
| 3/8 | 3/8 | 1823 60 18 | 11,7 | 19 | 39 | 22,5 | 8,5 | 0,029 |

## 1821 straight male BSP taper equal/unequal adaptor



stainless steel

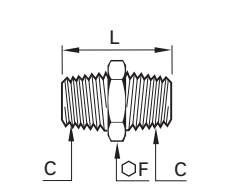



| C1 | C2 | | F | L | kg |
|---|---|---|---|---|---|
| R1/8 | R1/8 | 1821 10 10 | 12 | 19 | 0,008 |
| R1/4 | R1/4 | 1821 13 13 | 14 | 27 | 0,019 |
| R1/4 | R1/8 | 1821 13 10 | 14 | 23,5 | 0,015 |
| R3/8 | R3/8 | 1821 17 17 | 17 | 28 | 0,025 |
| R3/8 | R1/4 | 1821 17 13 | 17 | 27,5 | 0,024 |
| R1/2 | 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

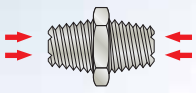


stainless steel




| 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°).

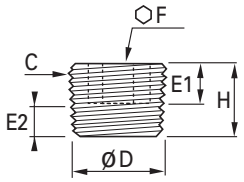


# stainless steel plugs

## 0285 internal hexagon headed, BSP taper



stainless steel AISI 316L



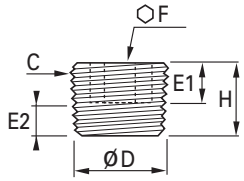

| C | | ØD | E1 | E2 mini | E2 maxi | F | H | kg |
|---|---|---|---|---|---|---|---|---|
| R1/8 | 0285 10 00 | 9,72 | 6 | 3,1 | 4,9 | 5 | 8 | 0,003 |
| R1/4 | 0285 13 00 | 13,15 | 8 | 4,7 | 7,3 | 6 | 10 | 0,007 |
| R3/8 | 0285 17 00 | 16,66 | 8 | 5,1 | 7,7 | 8 | 11 | 0,013 |
| R1/2 | 0285 21 00 | 20,95 | 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

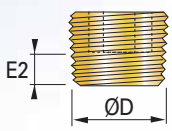


stainless steel AISI 316L




| 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
connectic


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



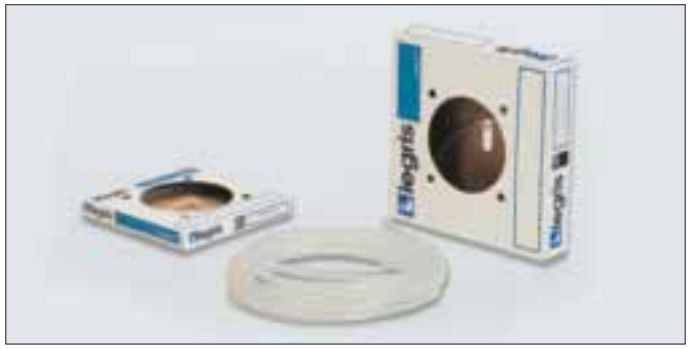
- highly flexible for use in reduced spaces and for small bend radius applications
- Polyester and polyether version for optimum mechanical properties and good chemical resistance.
- 7 colours available for coding of circuits
- close tolerance, available in 3 mm to 14 mm O.D, supplied in 25 m and 100 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

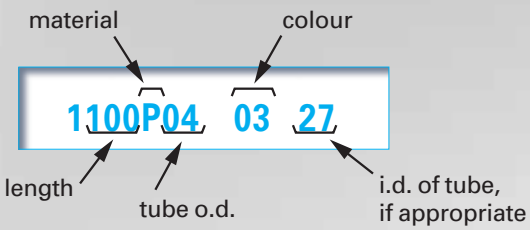


## Tube length marked every metre

- 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**
Page K25



**0697**
Page K25



**0127**
Page K25



**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 |

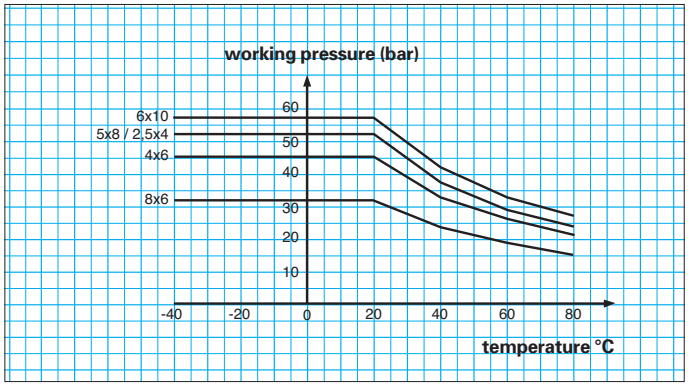
Connected to **Legris** instant fittings, the calibration of Legris nylon tubing ensures **perfect sealing**.

Technical characteristics of Legris nylon tubing also depend on the type of connection used.

## pressure and temperature resistance of Legris nylon tubing

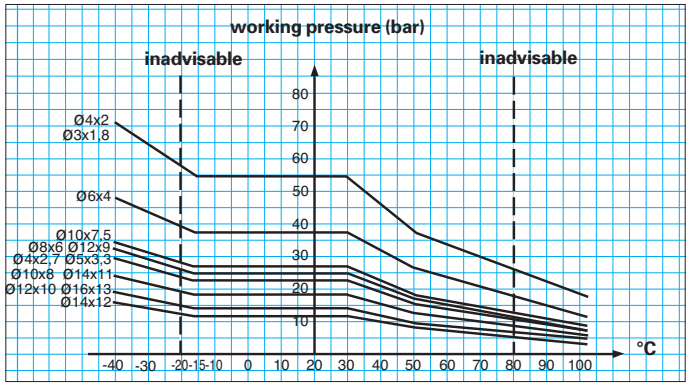
In the graph below, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
example : semi-rigid nylon tube, Ø14x12, at 10°C, maximum pressure = 12 bar

**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**.

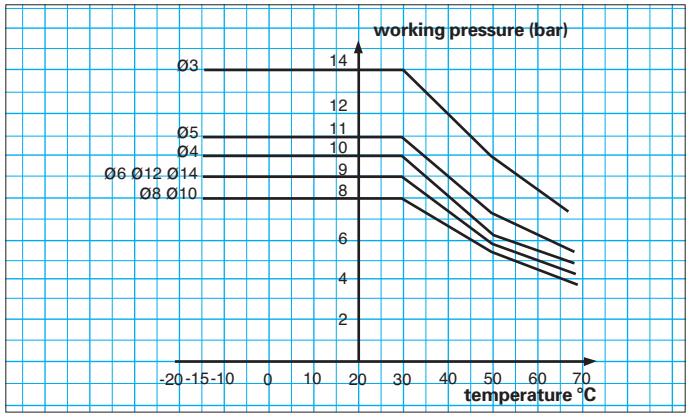
| o.d. of tube | tolerances on o.d. | |
|---|---|---|
| 3 to 8 mm | +0,10 | -0,10 |
| 10 to 14 mm | +0,15 | -0,15 |

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 |

**legris.com's plus points**



You will also find **technical tubes and hoses** available in inch dimensions in the on-line catalogue on our web-site – www.legris.com

**www.legris.com**

# 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.

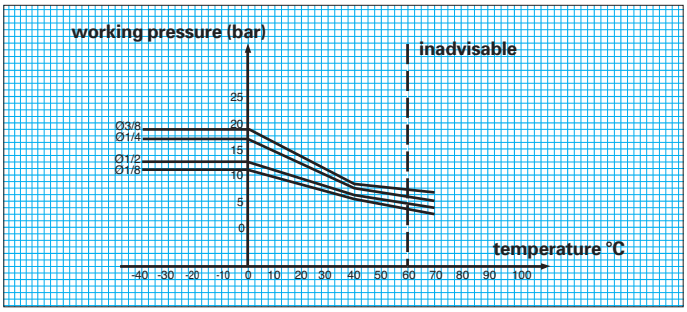
| o.d. of tube | tolerances on o.d. | |
|---|---|---|
| 1/8" to 1/2" | +0,1 | -0,1 |
| 4 to 14 mm | +0,1 | -0,1 |

## 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

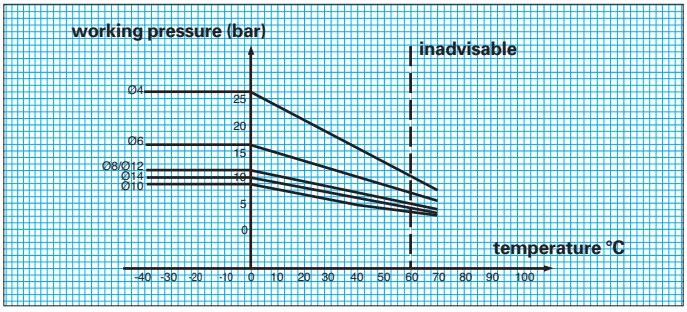
| o.d. tube | i.d. tube mm | R minimum bend radius for tube at 20° C (in mm) | in 25 m rolls CLEAR | kg per 25 m |
|---|---|---|---|---|
| 1/8 | 1,57 | 13 | 1025Y53 00 | 0,270 |
| 1/4 | 4,3 | 32 | 1025Y56 00 | 0,400 |
| 3/8 | 6,35 | 50 | 1025Y60 00 | 0,760 |
| 1/2 | 9,65 | 64 | 1025Y62 00 | 1,330 |




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 | kg 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.

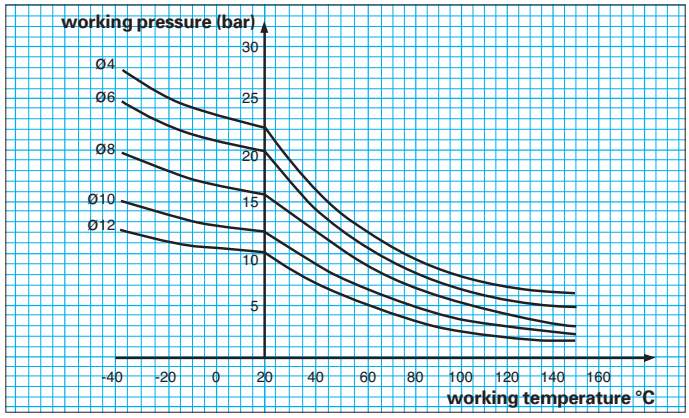
| O.D. of tube | Tolerances on O.D. | |
|---|---|---|
| 4 mm | +0,05 | -0,05 |
| 6 to 10 mm | +0,07 | -0,07 |
| 12 mm | +0,10 | -0,10 |

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 | kg per 5 m | in 25 m rolls white | kg per 25 m |
|---|---|---|---|---|---|---|
| | | | CLEAR | | CLEAR | |
| 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.

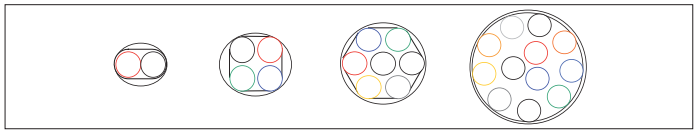
## 1050P-1010P semi-rigid nylon multitube

| 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



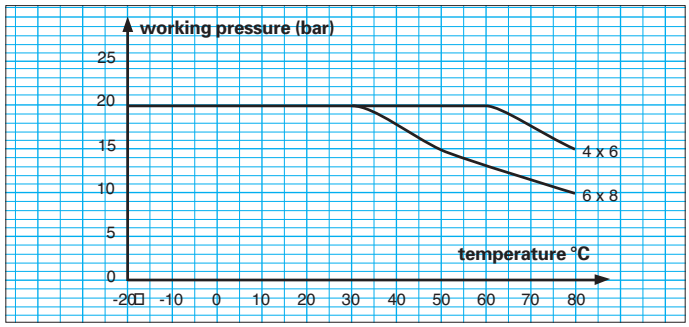
Legris nylon recoil tubing ensures that the coil will continue to contract after multiple use. Assembled with male stud 1/4" BSP taper fittings, it is ready for immediate use. Protection springs are fitted to prevent the ends of the tubing from becoming damaged.
With a surface hardness of 60 shore D, 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 |

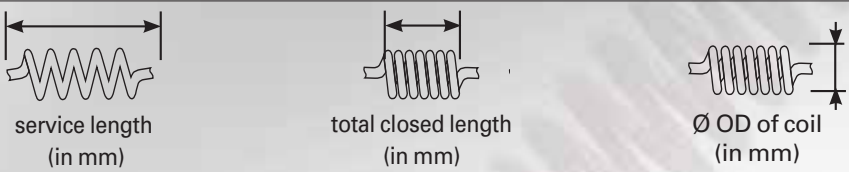
## 1471P nylon recoil tubing, 4 metres, with 1/4'' BSP taper fitting

| 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



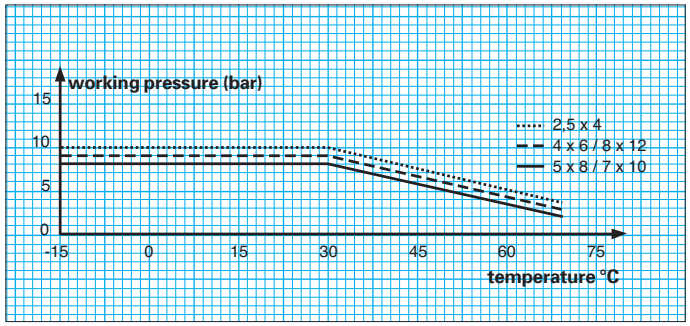
Legris polyester polyurethane recoil tubing is perfectly suited for installations requiring flexibility within a reduced space, thanks to its small coil diameters. Straightened extremities and good resistance to shocks and abrasion enable safe and easy manipulation of pneumatic machinery.
With a surface 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 |

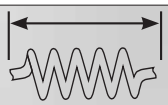
## 1471U polyester polyurethane recoil tubing, 4 m long, with BSPT thread connections

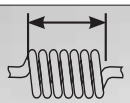
| o.d. tube mm | i.d. tube mm | BSPT thread | Polyurethane recoil tubing, 4 m long | | | length of long straight section in mm | length of short straight section in mm | | kg |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 2,5 | R1/8 | 1471U 04 03 10 | 1471U04 04 10 | 1471U04 05 10 | 390 | 300 | 100 | 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 |

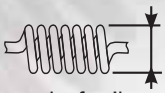
## 1472U polyester polyurethane recoil tubing, 6 m long, with BSPT thread connections

| 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**

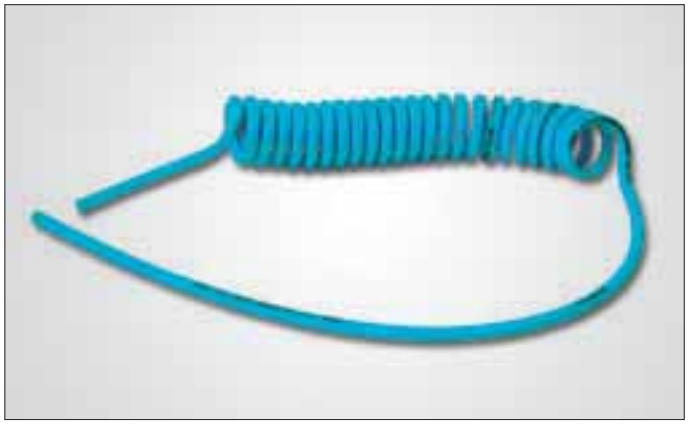

service length in mm


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



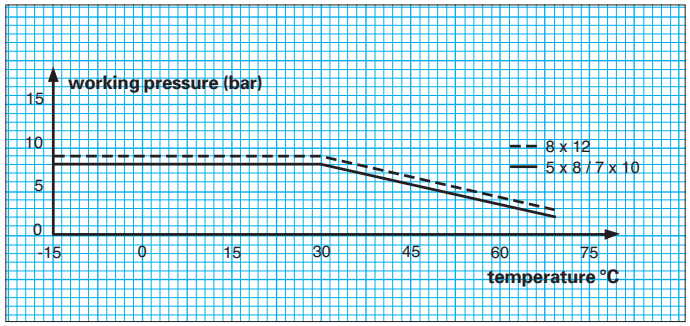
Legris **polyester polyurethane recoil tubing – without connectors** is perfectly suited for installations requiring flexibility within a reduced space, thanks to its small coil diameters. Perfectly suited to Legris push-in fittings with protection rings, it enables safe and easy manipulation of pneumatic 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

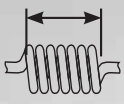
| o.d. tube mm | i.d. tube mm | polyurethane recoil tubing –without connectors, 4m long | | length of long straight section in mm | length of short straight section in mm | | kg |
|---|---|---|---|---|---|---|---|
| 8 | 5 | 1461U08 04 | 400 | 500 | 100 | 42 | 0,128 |
| 10 | 7 | 1461U10 04 | 400 | 500 | 100 | 62 | 0,244 |
| 12 | 8 | 1461U12 04 | 400 | 500 | 100 | 65 | 0,344 |

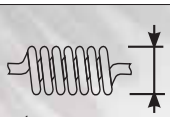
## 1462U polyester polyurethane recoil tubing –without connectors, 6m long

| 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

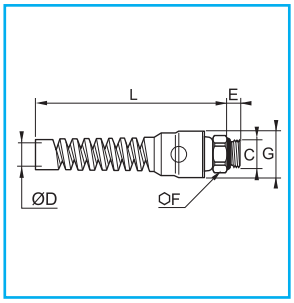
**working temperature**: - 20° to + 60°C

**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

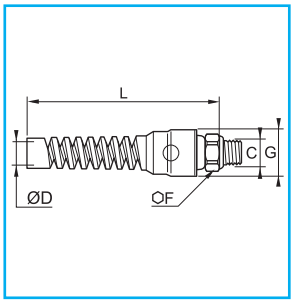





| C | ØD | | E | F | G | L | kg |
|---|---|---|---|---|---|---|---|
| G1/4 | 8 | 0694 08 13 | 6,5 | 16 | 24 | 104,5 | 0,101 |
| G1/4 | 10 | 0694 10 13 | 6,5 | 18 | 24 | 106,5 | 0,105 |
| G3/8 | 12 | 0694 12 17 | 7,5 | 20 | 29,5 | 126 | 0,106 |

### 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



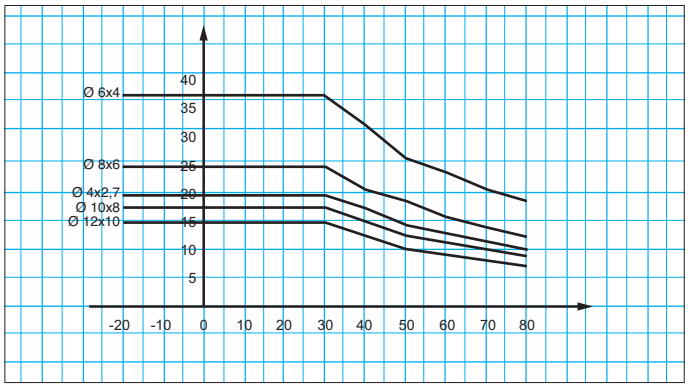
Legris **anti-spark tubing** conforms to **UL94 VO** standard and is suitable for installations submitted to aggressive environments, providing resistance to spark projections.
3 types of tubing are available :

- **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**

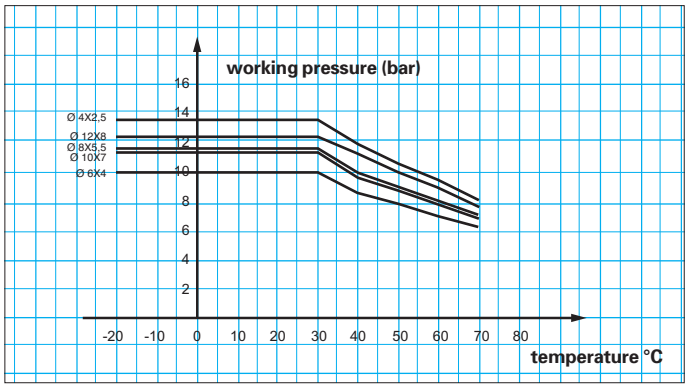



to calculate burst pressure, the values in the above graph should be multiplied x 3

## pressure and temperature resistance of anti-spark tubing

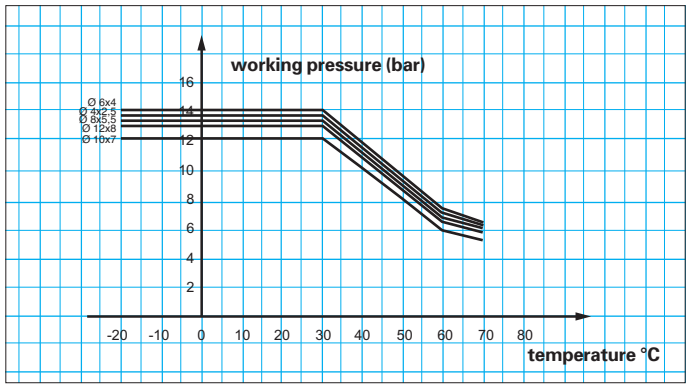
In the adjacent graph, each curve represents the acceptable maximum pressure at a given temperature, by diameter,
Ex: polyurethane tubing, Ø 7x10, at 20°C, maximum pressure = 12 bar

**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) | | | | | kg 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) | | | | | kg 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) | | | | | kg 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) | | | | | kg 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) | | | | | kg 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) | | | | | kg 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



| | kg |
|---|---|
| 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**

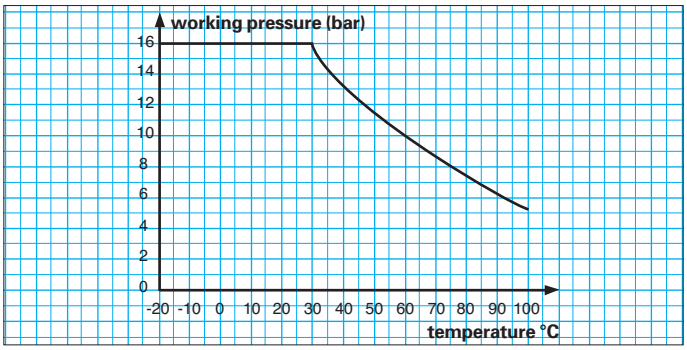
Assembly is simple and easy and no collar, no additive (grease, oil…etc) nor preparation time is required.
For correct connection, push the tube fully home against the shoulder of the fitting.
Dismantling should be done by cutting the tube with a knife on the barbed side of the fitting.

- **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

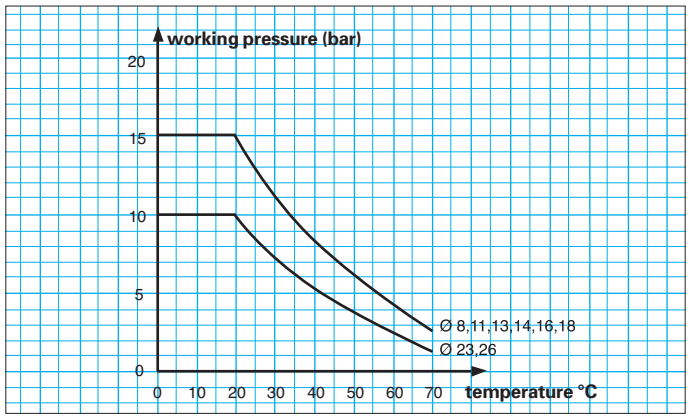


Translucent Legris braided PVC hose comprises a polyester fibre mesh sandwiched between two layers of polymer.
It has a wide variety of applications.
It is food quality and is suitable for use with milk, beer, water, wine, etc.
It is translucent which allows a visual check on fluid flow, cleanliness 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**

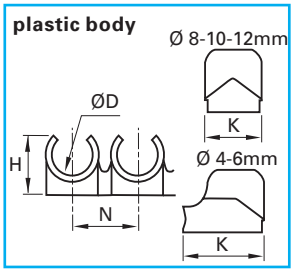
**advantages of Legris braided PVC hose**

- food quality
- translucent for visual checking of fluid flow
- flexibility
- good ageing
- numerous applications
- silicone free

## Clip clip strips for tubes



plastic body



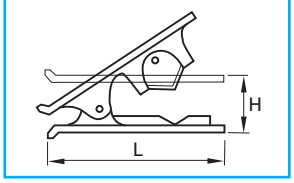

| ØD | | H | K | N | Number of clips per strip | Ø LF3000- to be clipped | kg |
|---|---|---|---|---|---|---|---|
| 4 | Clip 04 00 | 9 | 13,5 | 10,5 | | | 0,008 |
| 6 | Clip 06 00 | 10,5 | 13 | 10,5 | 8 | | 0,009 |
| 8 | Clip 08 00 | 12,5 | 10,5 | 12 | 7 | 4 | 0,009 |
| 10 | Clip 10 00 | 14 | 12 | 15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



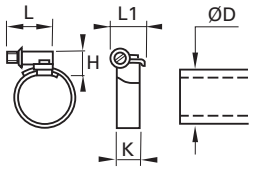

| | H | L | kg |
|---|---|---|---|
| 3000 71 00 | 25 | 79 | 0,029 |

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

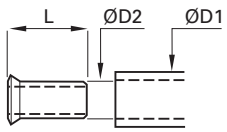



| ØD min-max | | H | K | L | L1 | kg |
|---|---|---|---|---|---|---|
| 6-11 | 0697 00 01 | 7 | 5 | 12 | 7 | 0,003 |
| 10-16 | 0697 00 02 | 12 | 9 | 21 | 13 | 0,010 |
| 12-22 | 0697 00 03 | 12 | 9 | 21 | 13 | 0,010 |
| 16-27 | 0697 00 04 | 12 | 9 | 24 | 13 | 0,014 |
| 20-32 | 0697 00 05 | 12 | 9 | 24 | 13 | 0,014 |

## 0127 ferrule for plastic tube



brass




*L dimensions can be found on page E20*

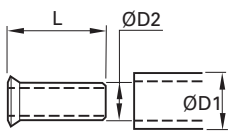
| ØD1 | ØD2 | | kg |
|---|---|---|---|
| 4 | 2 | 0127 04 00 | 0,001 |
| 4 | 2,7 | 0127 04 27 | 0,001 |
| 5 | 3 | 0127 05 03 | 0,001 |
| 5 | 3,3 | 0127 05 00 | 0,001 |
| 6 | 4 | 0127 06 00 | 0,001 |
| 8 | 5,5 | 0127 08 55 | 0,001 |
| 8 | 6 | 0127 08 00 | 0,001 |
| 10 | 7 | 0127 10 07 | 0,002 |
| 10 | 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



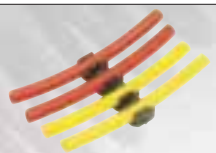
stainless steel




| 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 |
|---|---|---|
| **A**cetic 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 |
| **B**enzene | 3 | 3 |
| Butane | 1 | 1 |
| Butyl Acetate | 3 | 2 |
| Butyl Alcohol | 2 | 2 |
| **C**arbon Tetrachloride | 3 | 2 |
| Caustic Soda (Sodium hydroxide) | 1 | 2 |
| Chloroform | 3 | 3 |
| Chromic Acid 3n | 3 | 3 |
| Cyclohexanone | 3 | 3 |
| **D**iesel Oil | 1 | 1 |
| Distilled Water | 1 | 3 |
| **E**thanol | 2 | 2 |
| Ethyl Acetate | 2 | 2 |
| **F**reon 12-22 | 2 | 2 |
| **G**lycol Without $H_20$ | 1 | 1 |
| **H**exachloride | 2 | 1 |
| Hydrochloric Acid 3n | 1 | 3 |
| Hydrogen Peroxide 3 % | 1 | 1 |
| **K**erose N | 1 | 1 |
| **M**agnesium 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 |
| **N**itric Acid 3n | 3 | 3 |
| **O**zone | 1 | 1 |
| **P**araffin 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 |
| **S**ea Water | 1 | 3 |
| Sodium Chloride | 1 | 2 |
| Sulphuric Acid 3n maxi 10 % | 1 | 3 |
| Sulphuric Acid 13 PH | 2 | 3 |
| **T**etrachloroethylene | 2 | 2 |
| Toluene | 2 | 2 |
| Trichlorethylene | 3 | 3 |
| **X**ylem | 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<br>Maximum pressure of a circuit depends on the nature and thickness of the tube. | |
| **working temperature** | – 20° to + 60°C<br>The temperature of a circuit also depends on the nature and type of the tubing. | |
| **materials** | **body:** | reinforced polymer<br>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<br>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

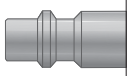
## flow : 1250 Nl/min (44 cfm)

### 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 |

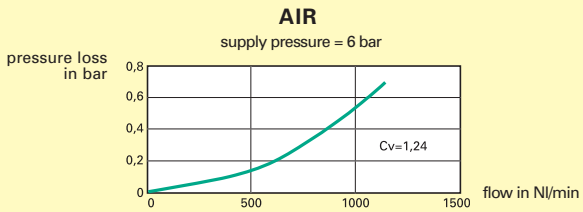
## 9440U female Y body, BSP parallel



| 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

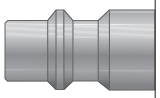
## flow : 2400 Nl/min (85 cfm)

### 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 |

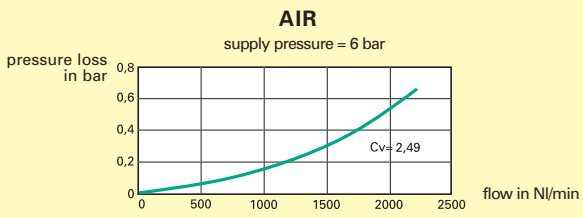
## 9440U female Y body, BSP parallel



| 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

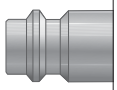
## flow : 2000 Nl/min (71 cfm)

### 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 |

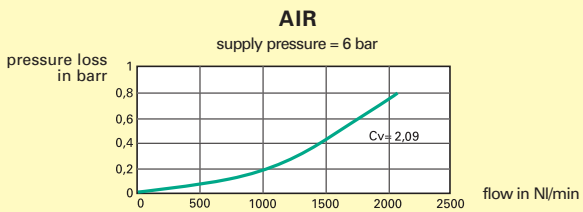
## 9440E femal Y body, BSP parallel



| C | | kg |
|---|---|---|
| G1/2 | 9440E07 21 | 0,335 |

## Flow curves – Pressure loss

Maximum working pressure = 16 bar

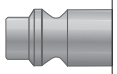


# C 9000 advanced quick acting safety couplers ARO interchange
# flow : 1250 Nl/min (44 cfm)
## passage : 5,5 mm

**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 |

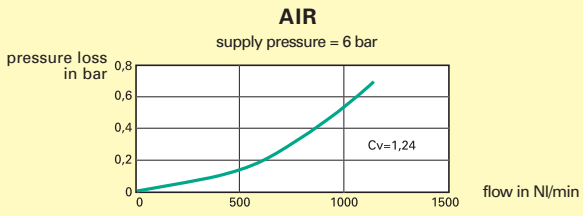
## 9440A female Y body, BSP parallel



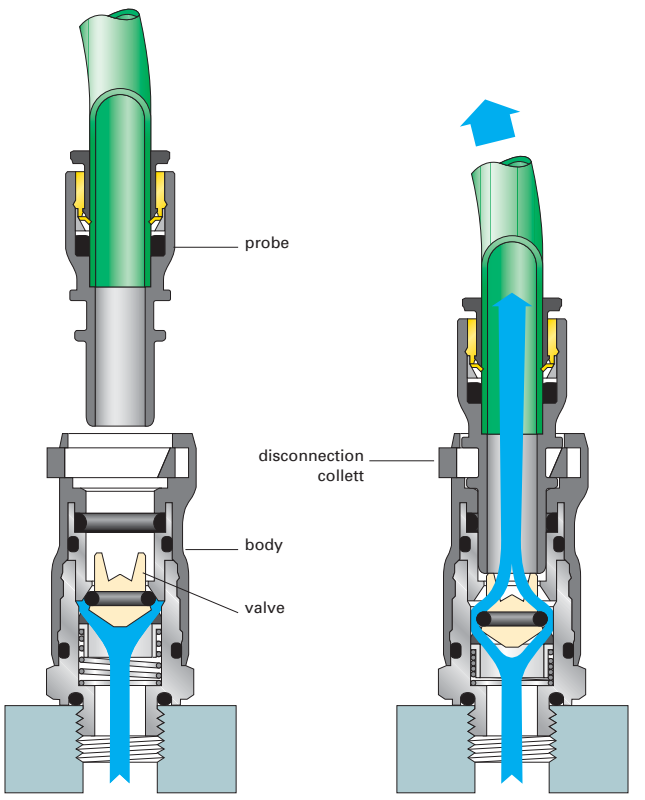
| C | | kg |
|---|---|---|
| G3/8 | 9440A06 17 | 0,263 |

## 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 |

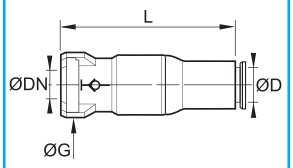
On request, we can provide :
- other **configurations** : elbow, panel mountable.
- alternate ring colours : yellow, green.



## 7926 body with LF 3000® connection



**body – polymer H.R.**

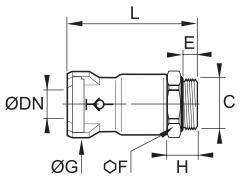



| ØD | DN | | G | L | kg |
|---|---|---|---|---|---|
| 6 | 5 | 7926 05 06 | 18,5 | 44 | 0,020 |
| 8 | 5 | 7926 05 08 | 18,5 | 49 | 0,024 |
| 10 | 7,3 | 7926 07 10 | 22 | 58,5 | 0,044 |

## 7921 body with male BSP parallel thread



**body – polymer H.R.**



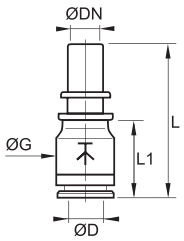

**orientable model**

| 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.**

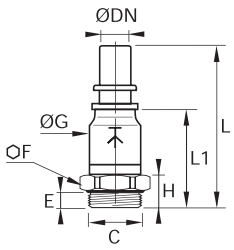



| ØD | DN | | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| 6 | 5 | 7960 05 06 | 13,5 | 36,5 | 17,5 | 0,009 |
| 8 | 5 | 7960 05 08 | 13,5 | 37 | 18 | 0,004 |
| 10 | 7,3 | 7960 07 10 | 16 | 41 | 20,5 | 0,008 |

## 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**.

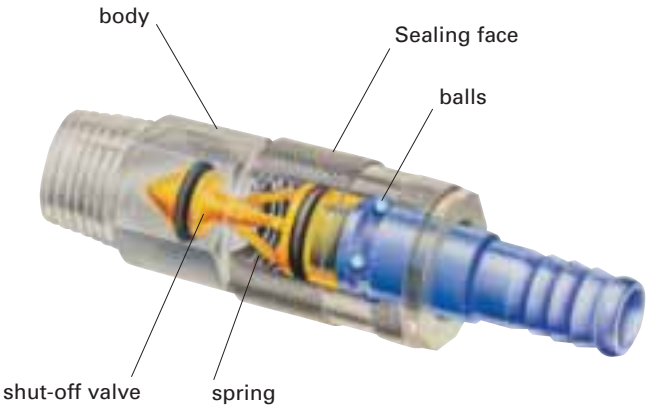
They are easy to install:

- 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<br>These limits can vary according to the type of application (nature of fluid, working environment…). |
| **constituent materials** | **body :** nickel-plated brass<br>**washer :** nickel-plated brass (series 13-20-21-26)<br>nickl-plated steel (series 18-22-23-25-27)<br>steel and brass (series 17-19-24-14-30)<br>**shut-off valve** : brass<br>**spring** : stainless steel<br>**ball :** stainless steel (stem for series 24-14-30)<br>**"O" ring** : NBR<br>**probe :** nickel-plated brass ( series 20-21-mini-standard-maxi)<br>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

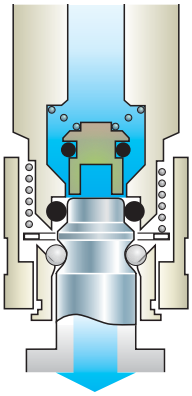


### optimum flow, small pressure loss

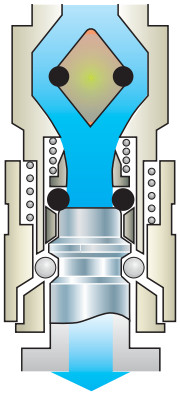
- for small pressure loss, models with "**Ultra-Flow**" technology: with the shut-off valve and spring mounted separate from the fluid passage area, turbulence is eliminated and thus pressure loss is reduced.

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**



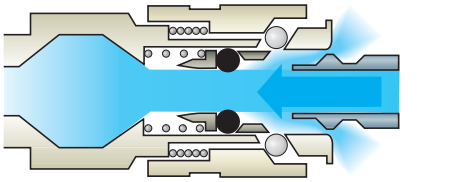
**"Ultra-Flo" quick acting coupler**



### 3 sealing functions

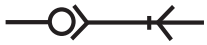
- 3 functions are proposed by Legris to answer users' needs:

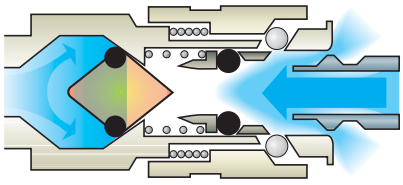
**straight through**





**single sealing**



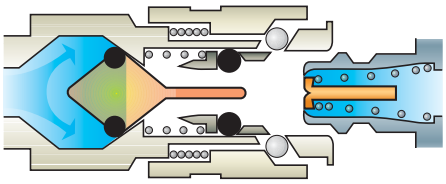


**single sealing of body**
**+ non sealing probe**

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.

**A**cetamide
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
**C**alcium carbonate
castor oil
coconut oil
cod liver oil
cotton oil
cyclohexane
**D**etergents
diesel oil
diethylene glycol
**E**ngine oil
ethane
ethanol
ethylene glycol
ethyl silicate
**F**lax oil
**G**ear oil
glycerine
glycerine triacetate
glycol
**H**elium
heptane N
hexane N
heating oil

hydraulic liquids :
**G**roup-HSA
group-HSB
group-HSD
group-H
group-H-L
group-H-LP
**I**sododecane
iso-octane
**M**argarine
methanol
mineral oil
**N**-heptane
N-hexane
nitrogen
N-pentane
**O**ctadecane
olive oil
**P**eanut oil
pentane N
petroleum
propylene glycol
**S**ea water
silicone greases
soap solution
soda
sodium sulphate
soya oil
**T**risodium phosphate
turpentine
**V**aseline
vegetable oil
**W**ater
wheat oil
wood oil
**Z**inc 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 series 13
# 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



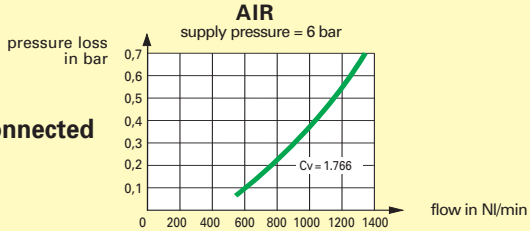
| ØD | without shut-off | kg |
|---|---|---|
| 8 | 9085 13 08 | 0,019 |
| 10 | 9085 13 10 | 0,022 |
| 13 | 9085 13 13 | 0,025 |

*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)



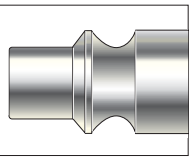
# metal quick acting couplers series 14
# Flow : 560 Nl/min (25 cfm)
## Passage : 5 mm

## 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



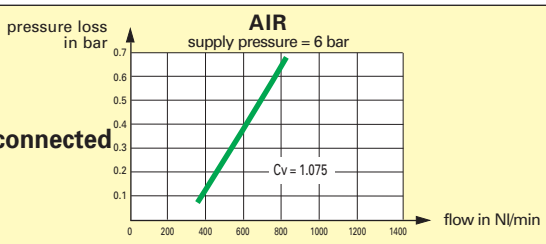
| ØD | without shut-off | kg |
|---|---|---|
| 6 | 9085 22 06 | 0,014 |
| 8 | 9085 22 08 | 0,016 |
| 9 | 9085 22 09 | 0,015 |
| 10 | 9085 22 10 | 0,018 |
| 13 | 9085 22 13 | 0,023 |

*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

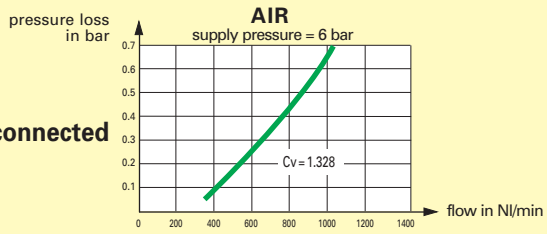


| ØD | without shut-off | kg |
|---|---|---|
| 6 | 9085 17 06 | 0,015 |
| 8 | 9085 17 08 | 0,016 |
| 10 | 9085 17 10 | 0,018 |

## Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



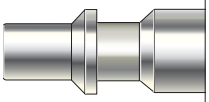
# metal quick acting couplers series 18
# Flow : 970 Nl/min (34 cfm)
## Passage : 5,5 mm

## 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

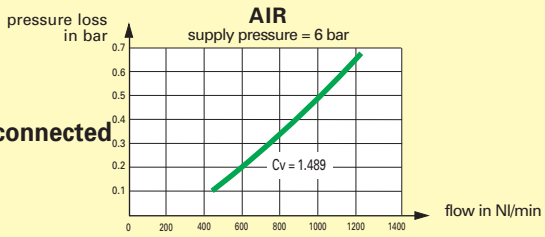


| ØD | without shut-off | kg |
|---|---|---|
| 6 | 9085 18 06 | 0,015 |
| 8 | 9085 18 08 | 0,012 |
| 10 | 9085 18 10 | 0,017 |

## Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



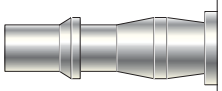
# Flow : 660 Nl/min (23 cfm)

## 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

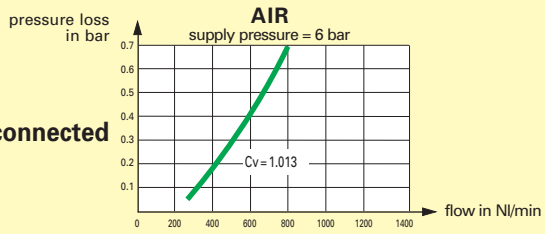


| ØD | without shut-off | kg |
|---|---|---|
| 6 | 9085 19 06 | 0,016 |
| 8 | 9085 19 08 | 0,019 |
| 10 | 9085 19 10 | 0,020 |

## Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



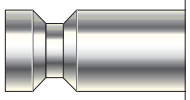
# metal quick acting couplers
# Flow : 165 Nl/min (5.8 cfm)
## Passage : 2,7 mm

# 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

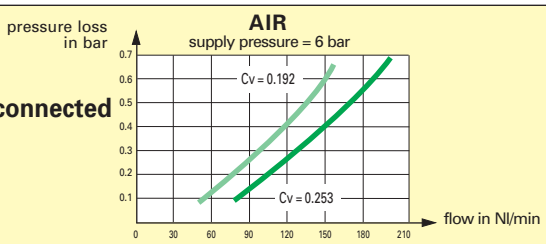


| ØD | without shut-off | kg |
|---|---|---|
| 3 | 9095 20 03 | 0,012 |
| 4 | 9095 20 04 | 0,012 |

## 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**



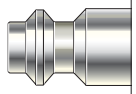
# metal quick acting couplers
# Flow : 560 Nl/min (19 cfm)
## Passage : 5 mm

# 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

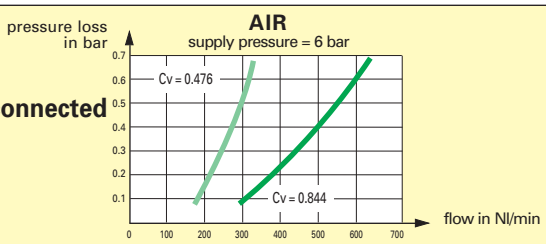


| ØD | without shut-off | kg |
|---|---|---|
| 4 | 9095 21 04 | 0,021 |
| 6 | 9095 21 06 | 0,026 |
| 8 | 9095 21 08 | 0,027 |

## 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**



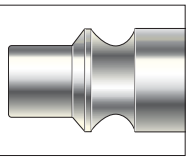
# metal quick acting couplers series 22
# Flow : 800 Nl/min (35 cfm)
## Passage : 5,5 mm
## single shut-off

**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

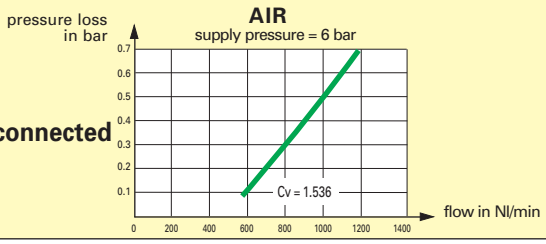


| ØD | without shut-off | kg |
|---|---|---|
| 6 | 9085 22 06 | 0,014 |
| 8 | 9085 22 08 | 0,016 |
| 9 | 9085 22 09 | 0,015 |
| 10 | 9085 22 10 | 0,018 |
| 13 | 9085 22 13 | 0,023 |

## Flow curves – Pressure loss

Maximum working pressure: 35 bar

vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



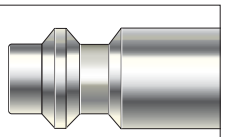
# metal quick acting couplers series 23
# Flow : 1250 Nl/min (44 cfm)
## Passage : 5,5 mm

## 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

### 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

### 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

### 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 |

### 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 |

### 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



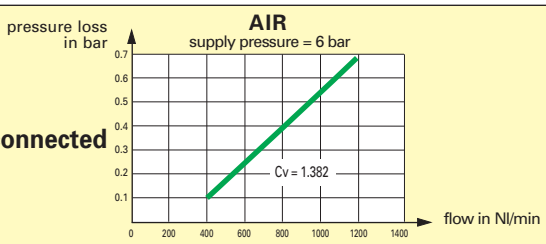
| C | | kg |
|---|---|---|
| G1/4 | 9293 23 13 | 0,058 |

*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)

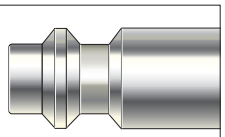
## Passage : 5,5 mm

## 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



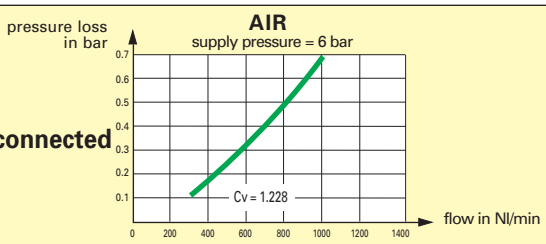
| C | | kg |
|---|---|---|
| G1/4 | 9293 23 13 | 0,058 |

*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

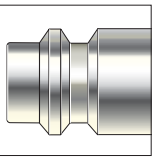
# series 25
## double shut-off
## and single shut-off

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



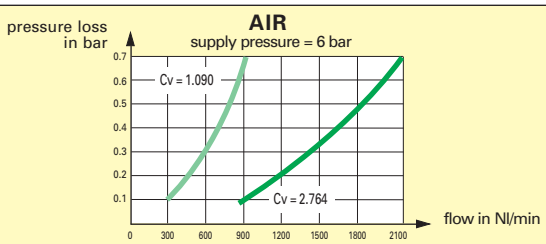
| ØD | with shut-off | kg |
|---|---|---|
| 6 | 9285 25 06 | 0,047 |
| 8 | 9285 25 08 | 0,048 |
| 10 | 9285 25 10 | 0,049 |
| 13 | 9285 25 13 | 0,054 |

| 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**



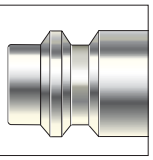
# Flow : 1000 Nl/min (35 cfm)

## 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

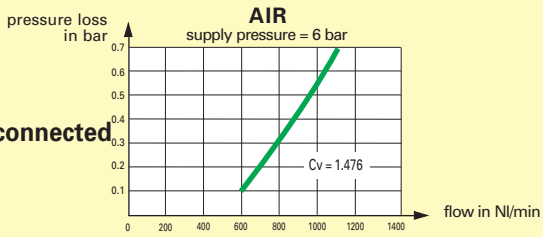


| ØD | without shut-off | kg |
|---|---|---|
| 6 | 9085 25 06 | 0,015 |
| 9 | 9085 25 09 | 0,017 |
| 13 | 9085 25 13 | 0,022 |

## 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

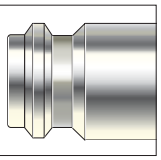
# series 27
## double shut off
## and single shut-off

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



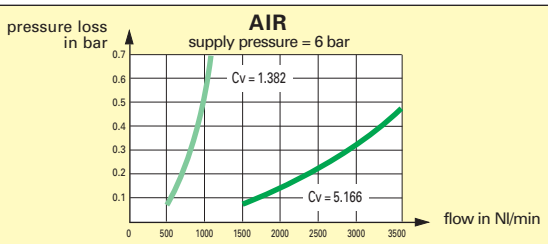
| ØD | with shut-off | kg |
|---|---|---|
| 8 | 9285 27 08 | 0,096 |
| 10 | 9285 27 10 | 0,098 |
| 13 | 9285 27 13 | 0,100 |
| 19 | 9285 27 19 | 0,107 |

| 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**



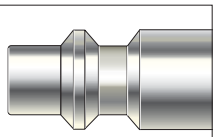
# metal quick acting couplers series 30
# Flow : 1400 Nl/min (49 cfm)
## Passage : 8,5 mm

## 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

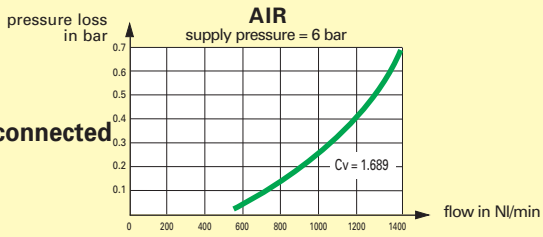


| ØD | without shut-off | kg |
|---|---|---|
| 8 | 9085 30 08 | 0,018 |
| 10 | 9085 30 10 | 0,019 |
| 13 | 9085 30 13 | 0,022 |

## Flow curves – Pressure loss

Maximum working pressure: 35 bar

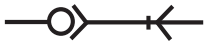
vacuum capability when **connected** and **disconnected** vacuum of 650 mm Hg (87% of vacuum)



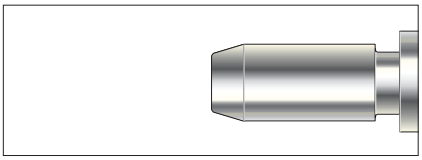
# Passage : 2 mm

# Passage : 3 mm

## single shut-off



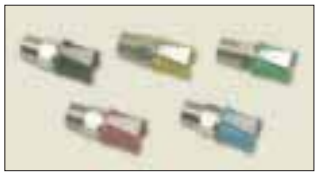
Compact and lightweight, series «mini « couplers are suitable for all compressed air installations. In order to identify the circuits, 0171 models are available in 5 colours.



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



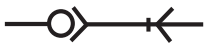
| ØD | | kg |
|---|---|---|
| 4 | 3150 00 61 | 0,010 |

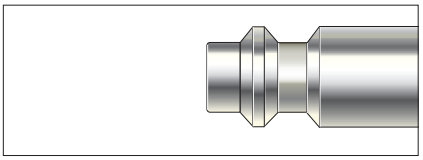
maximum working pressure = 20 bar

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

## single shut-off





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.

### 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



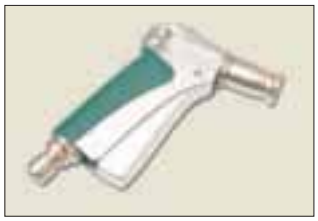
| DN | | kg |
|---|---|---|
| 12 | 2293 12 00 | 0,140 |

## 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).

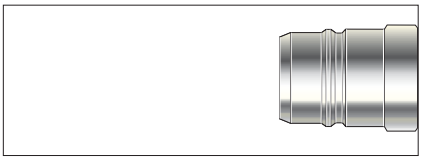
*In this catalogue, you will also find **brass accessories** compatible with **Legris** quick acting couplers. Please refer to the **Accessories and plugs section**.*

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

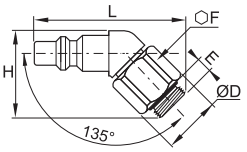
These fittings follow the operator's hand movements and prevent tubes from kinking, enabling **easier** and less restrictive **use** of pneumatic tools. Their design guarantees sealing against dust and the ingress of impurities. Thanks to their **ISO B** thread profile, they are interchangeable with **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

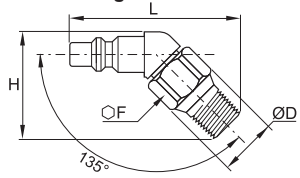



| C | DN | | ØD | E | F | H | L | kg |
|---|---|---|---|---|---|---|---|---|
| G1/4 | 6 | 9071U06 13 | 20,5 | 5,5 | 19 | 30 | 52 | 0,070 |
| G1/4 | 8 | 9071U08 13 | 20,5 | 5,5 | 19 | 31 | 54 | 0,080 |

### 9070 male oscillating fitting with ISO B6 probe, BSP taper thread



nickel-plated brass
nitrile O-ring

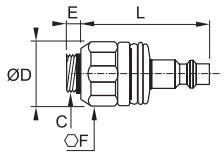



| C | DN | | ØD | F | H | L | kg |
|---|---|---|---|---|---|---|---|
| R1/4 | 6 | 9070U06 13 | 20,5 | 19 | 34 | 56 | 0,050 |
| R1/4 | 8 | 9070U08 13 | 20,5 | 19 | 35 | 58 | 0,100 |

### 0692 male flexible fitting with ISO B6 probe, BSP parallel thread



chemical nickel-plated steel
nitrile seal
nitrile sleeve

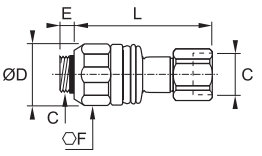



| C | DN | | ØD | E | F | L | kg |
|---|---|---|---|---|---|---|---|
| G1/4 | 5,5 | 0692 09 13 | 25,5 | 5,5 | 24 | 53 | 0,067 |

### 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

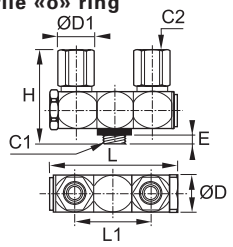
For simultaneous connection of several tools from a single source of compressed air. 360° orientable outlets allow complete movement for the operator ; swivelling fitting design prevents twisting of tubes.

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**

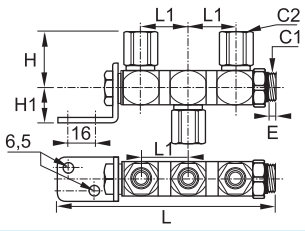



| C1 | C2 | | ØD | ØD1 | E | H | L | L1 | kg |
|---|---|---|---|---|---|---|---|---|---|
| G1/4 | G1/4 | 0680 13 13 | 23 | 21 | 5,5 | 55,5 | 75 | 44 | 0,302 |

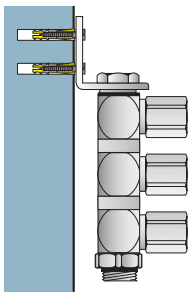
### 0681 male multiple tee with 3 female outlets, BSP parallel thread



**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 |

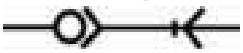
| SURFACE TREATMENT - BODY AND PROBE |
|---|
| NICKEL PLATING |
| CHEMICAL NICKEL PLATING |
| CHROMIUM PLATING |

# Quick acting couplers in stainless steel AISI 316L

## series X20

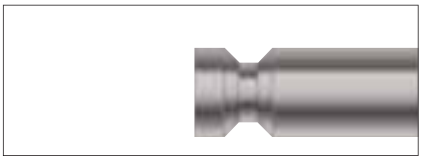
## passage: 2,7 mm

**Single shut-off flow: 165 Nl/min**



**Double shut-off flow: 130 Nl/min**

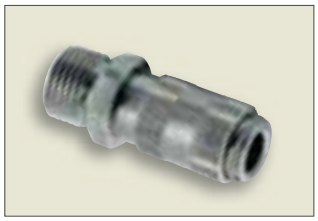




**Specifications**
- bodies and probes: stainless steel AISI 316L
- FKM seals
- working pressure : 35 bar
- working temperature : -15°C to +200°C
- vacuum capability: 86 % vacuum

**Advantages**
- compact
- robust
- low pressure loss

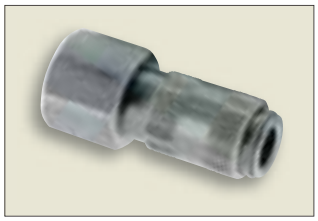
### 9201 Male body, BSP parallel



| C | |
|---|---|
| M5 | 9201X20 19 |
| G1/8 | 9201X20 10 |

with shut-off

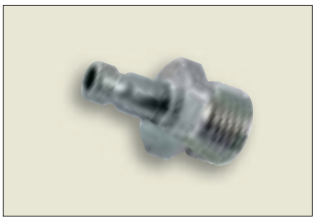
### 9214 Female body, BSP parallel



| C | |
|---|---|
| M5 | 9214X20 19 |
| G1/8 | 9214X20 10 |

with shut-off

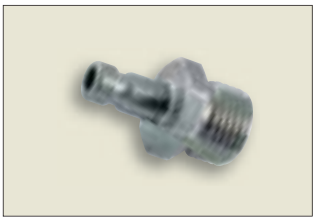
### 9287 Male thread, BSP parallel



| C | |
|---|---|
| M5 | 9287X20 19 |
| G1/8 | 9287X20 10 |

with shut-off

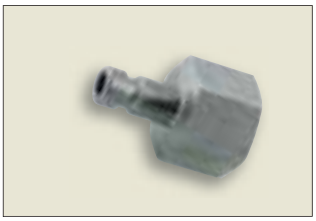
### 9087 Male thread, BSP parallel



| 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

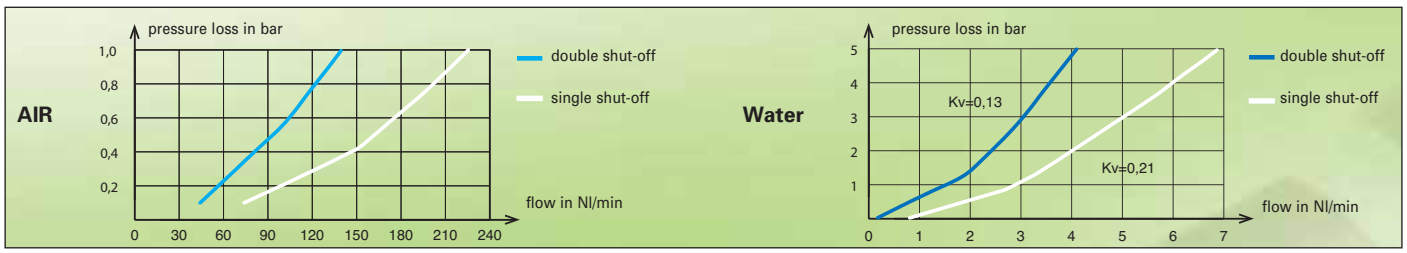
### 9086 Female thread, BSP parallel



| C | |
|---|---|
| M5 | 9086X20 19 |
| G1/8 | 9086X20 10 |

without shut-off

## Flow curves – Pressure loss



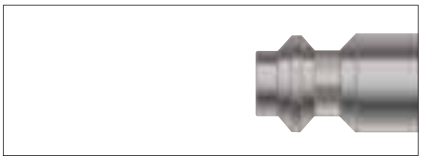
# Quick acting couplers in stainless steel AISI 316L

## 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



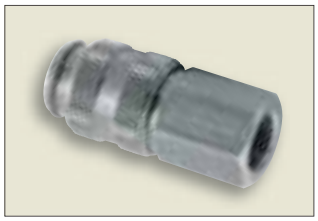
### 9201 Male body, BSP parallel



| C | |
|---|---|
| G1/8 | 9201X21 10 |
| G1/4 | 9201X21 13 |

with shut-off

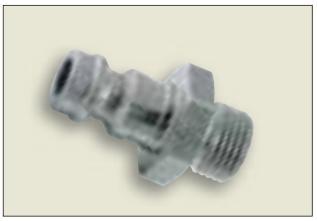
### 9214 Female body, BSP parallel



| C | |
|---|---|
| G1/8 | 9214X21 10 |
| G1/4 | 9214X21 13 |

with shut-off

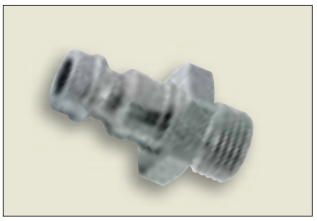
### 9287 Male thread, BSP parallel



| C | |
|---|---|
| G1/8 | 9287X21 10 |
| G1/4 | 9287X21 13 |

with shut-off

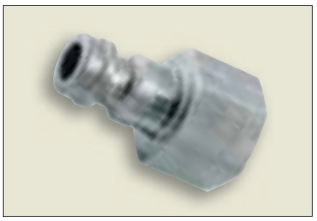
### 9087 Male thread, BSP parallel



| C | |
|---|---|
| G1/8 | 9087X21 10 |
| G1/4 | 9087X21 13 |

without shut-off

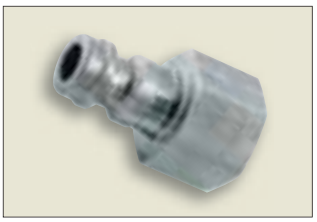
### 9286 Female thread, BSP parallel



| C | |
|---|---|
| G1/8 | 9286X21 10 |
| G1/4 | 9286X21 13 |

with shut-off

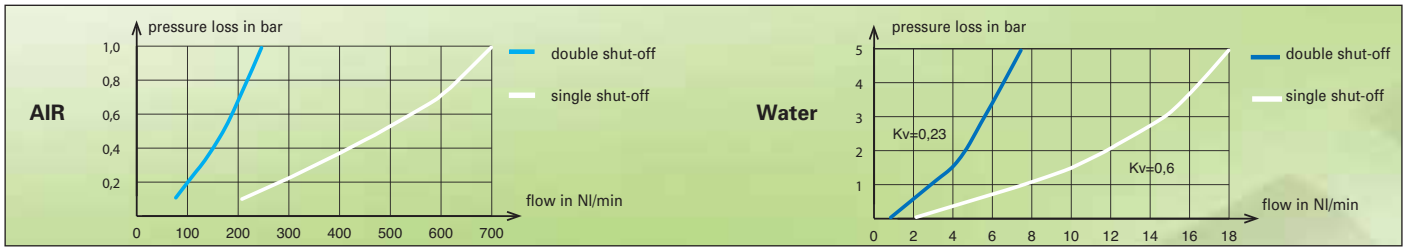
### 9086 Female thread, BSP parallel



| 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**

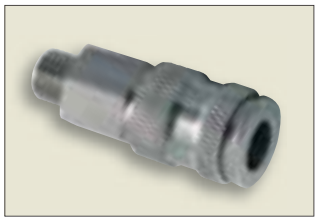
**Double shut-off flow: 710 Nl/min**

**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



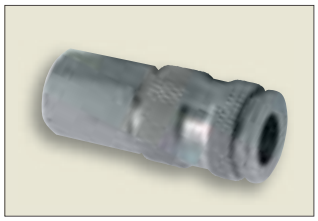
## 9201 Male body, BSP parallel



| C | |
|---|---|
| G1/4 | 9201X25 13 |
| G3/8 | 9201X25 17 |
| G1/2 | 9201X25 21 |

with shut-off

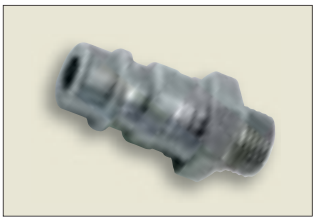
## 9214 Female body, BSP parallel



| C | |
|---|---|
| G1/4 | 9214X25 13 |
| G3/8 | 9214X25 17 |
| G1/2 | 9214X25 21 |

with shut-off

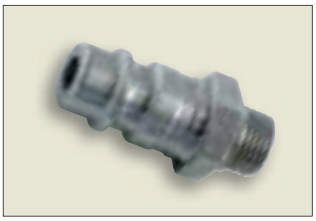
## 9287 Male thread, BSP parallel



| C | |
|---|---|
| G1/8 | 9287X25 10 |
| G1/4 | 9287X25 13 |
| G3/8 | 9287X25 17 |
| G1/2 | 9287X25 21 |

with shut-off

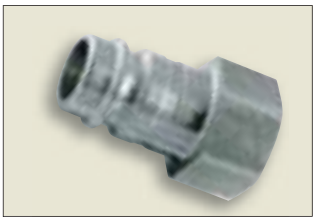
## 9087 Male thread, BSP parallel



| C | |
|---|---|
| G1/8 | 9087X25 10 |
| G1/4 | 9087X25 13 |
| G3/8 | 9087X25 17 |
| G1/2 | 9087X25 21 |

without shut-off

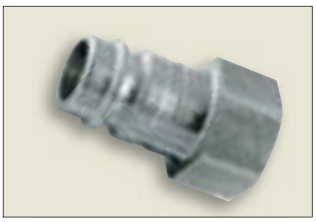
## 9286 Female thread, BSP parallel



| C | |
|---|---|
| G1/8 | 9286X25 10 |
| G1/4 | 9286X25 13 |
| G3/8 | 9286X25 17 |
| G1/2 | 9286X25 21 |

with shut-off

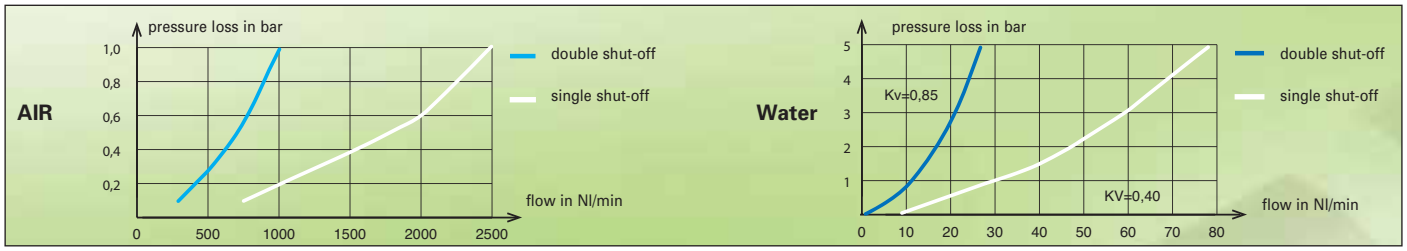
## 9086 Female thread, BSP parallel



| C | |
|---|---|
| G1/8 | 9086X25 10 |
| G1/4 | 9086X25 13 |
| G3/8 | 9086X25 17 |
| G1/2 | 9086X25 21 |

without shut-off

## Flow curves – Pressure loss



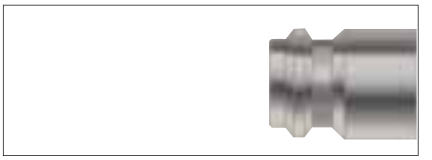
# Quick acting couplers in stainless steel AISI 316L

## series X27

## passage: 10 mm

**Single shut-off flow: 3500 Nl/min**

**Double shut-off flow: 900 Nl/min**

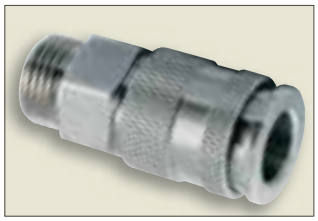


**Specifications**
- bodies and probes: stainless steel AISI 316L
- FKM seals
- working pressure : 35 bar
- working temperatures : -15°C to +200°C

**Advantages**
- very high flow
- low pressure loss
- robust



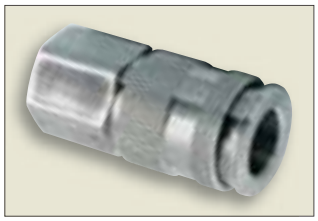
## 9201 Male body, BSP parallel



| C | |
|---|---|
| G3/8 | 9201X27 17 |
| G1/2 | 9201X27 21 |
| G3/4 | 9201X27 27 |

with shut-off

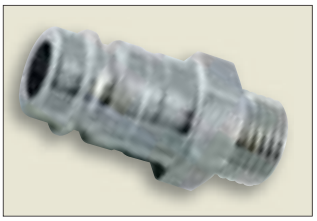
## 9214 Female body, BSP parallel



| C | |
|---|---|
| G3/8 | 9214X27 17 |
| G1/2 | 9214X27 21 |
| G3/4 | 9214X27 27 |

with shut-off

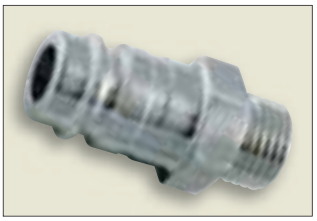
## 9287 Male thread, BSP parallel



| C | |
|---|---|
| G3/8 | 9287X27 17 |
| G1/2 | 9287X27 21 |
| G3/4 | 9287X27 27 |

with shut-off

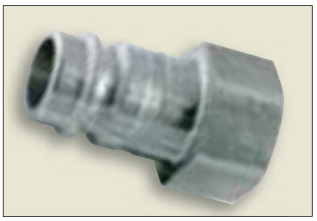
## 9087 Male thread, BSP parallel



| C | |
|---|---|
| G3/8 | 9087X27 17 |
| G1/2 | 9087X27 21 |
| G3/4 | 9087X27 27 |

without shut-off

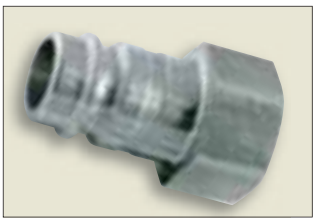
## 9286 Female thread, BSP parallel



| C | |
|---|---|
| G3/8 | 9286X27 17 |
| G1/2 | 9286X27 21 |
| G3/4 | 9287X27 27 |

with shut-off

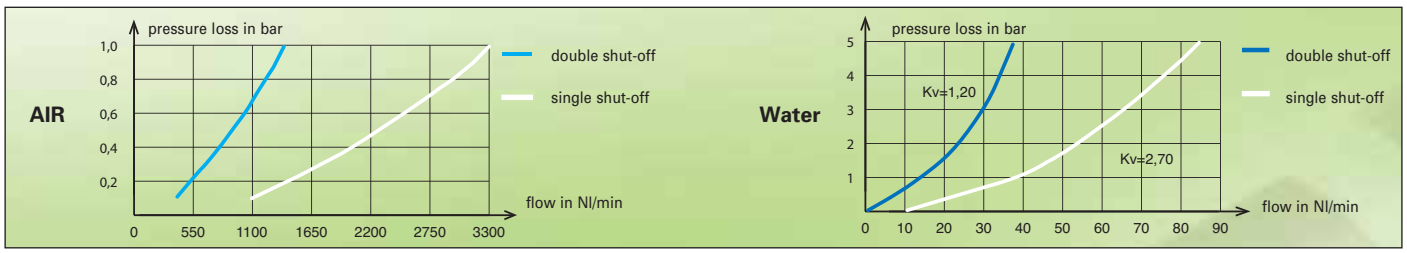
## 9086 Female thread, BSP parallel



| C | |
|---|---|
| G3/8 | 9086X27 17 |
| G1/2 | 9086X27 21 |
| G3/4 | 9086X27 27 |

without shut-off

## Flow curves – Pressure loss



# surface treatment - moud couplings

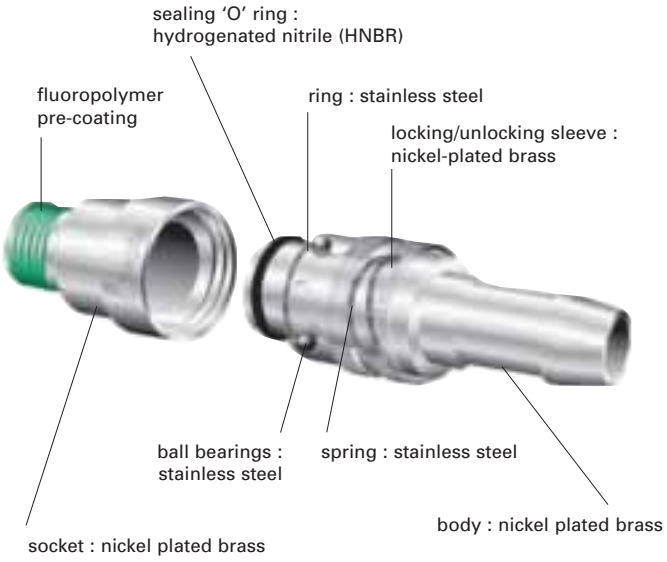
## principle of quick release mould couplers series 75



**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



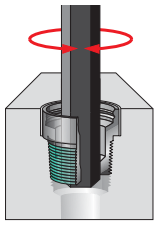

| | |
|---|---|
| **suitable fluids** | cold water, refrigerated water, hot water, oil (according to working temperature) |
| **working pressure** | 10 bar |
| **working temperature** | -15° to +90°C (water applications)<br>for temperatures above 90°C, please consult us |
| **constituent materials** | body and socket : nickel-plated brass<br>«O» rings : hydrogenated nitrile (HNBR) |
| **application fields** | die casting moulds for zamac, aluminium and brass alloys<br>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



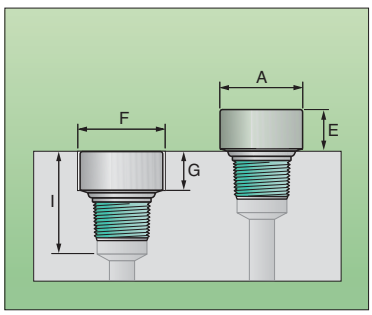
| C | DN | | kg |
|---|---|---|---|
| G1/4 | 8 | 9042T08 13 | 0,073 |
| G3/8 | 12 | 9042T12 17 | 0,254 |

## 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 |


Elegris
Elegris
Elegris

# 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

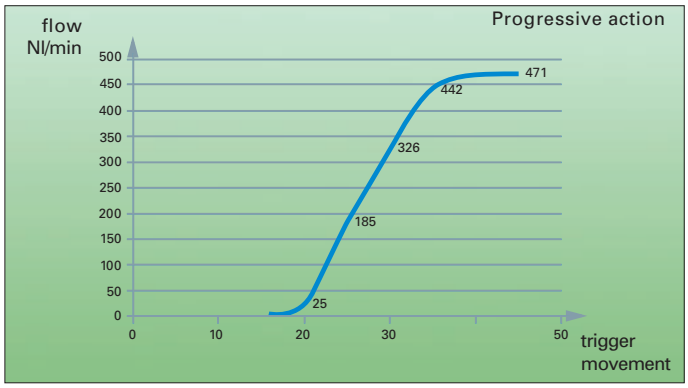
All Legris blowguns have been submitted to the registrated design protection organization for the drawings and models with the following numbers: 13224 - 13225 - 13226

## technical specification




| | |
|---|---|
| **Fluid** | compressed air<br>*please consult us for other fluids* |
| **Maximum working Pressure** | up to 10 bar |
| **Temperatures** | dry air : - 20° to + 80°C<br>ambient : - 15° to + 50°C |
| **Material** | Body : nylon 6.6 30% glass fibre<br>Trigger : nylon 6.6 30% glass fibre<br>Seal nitrile<br>Nozzle :<br>- nickel-plated brass<br>(progressive control and safety versions)<br>- aluminium (standard version)<br>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).




## 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.

## 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




## 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

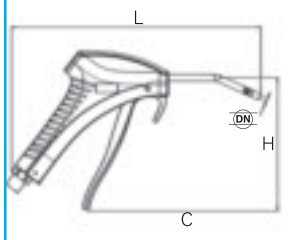
The Legris range of blowguns and nozzles provide the right equipment for the job in hand.

# universal blowguns

## 0659 standard blowgun with angled nozzle

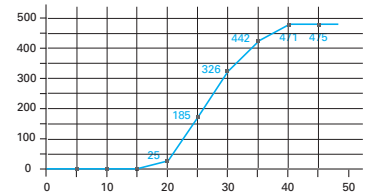


**body : polymer**
**nozzle : aluminium**




| C | DN | | H | L | kg |
|---|---|---|---|---|---|
| G1/4 | 3,5 | 0659 00 13 | 125,5 | 223 | 0,075 |

**Progressive flow curve**




475 Nl/min

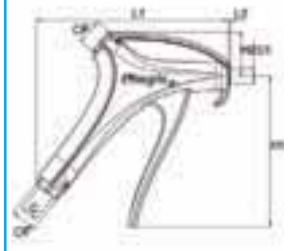
82 dBA

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

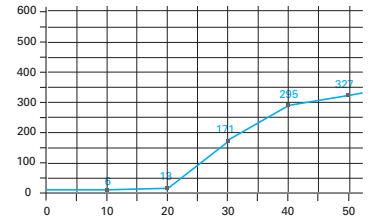


**body : polymer**
**nozzle : nickel-plated brass**



| 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

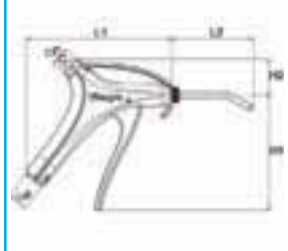
86 dBA

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

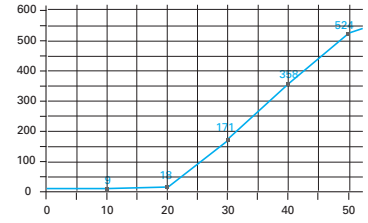


**body : polymer**
**nozzle : nickel-plated brass**



| 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

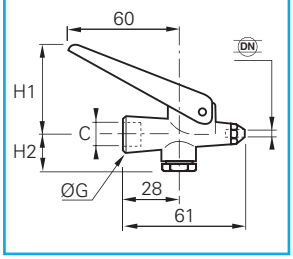
86 dBA

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 |

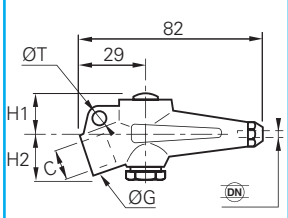
*tolerance = ± 2 mm

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.

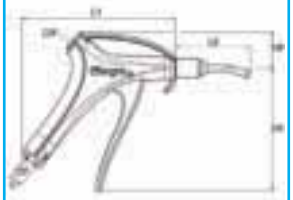
**technical specifications**

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

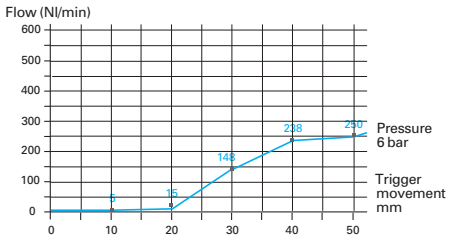


**polymer body - nickel plated brass nozzle**



| C | | F | H1 | H2 | L1 | L2 | kg |
|---|---|---|---|---|---|---|---|
| G1/4 | 0654 00 13 | 17 | 128 | 14 | 120 | 1,5 | 0,213 |

**Progressive flow curve**

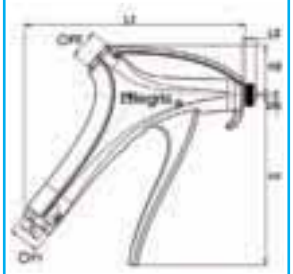



250 Nl/min
80 dBA
OSHA 1910.242 (b)
OSHA 1910.95 (b)
Directive 2003/10/CE
Recommendation INRS ED 755

## 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

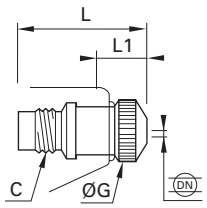
maximum flow (tolerance +/-10%)
noise level ISO 15744
spread of air cone
complies with norms

# 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

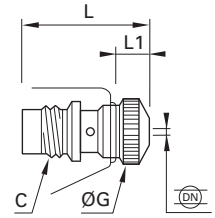
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

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 |

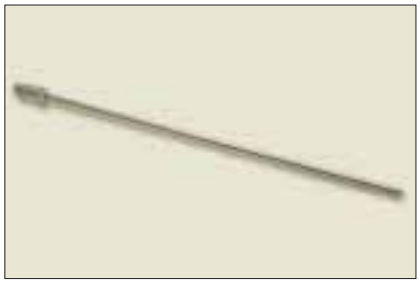


- Should the nozzle become obstructed, air escapes through holes in the side of the nozzle
- Powerful and responsive air jet

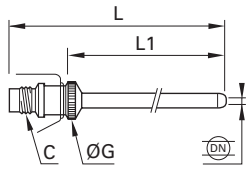
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

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

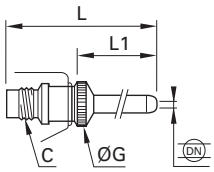
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

365 Nl/min
82 dBA
21°

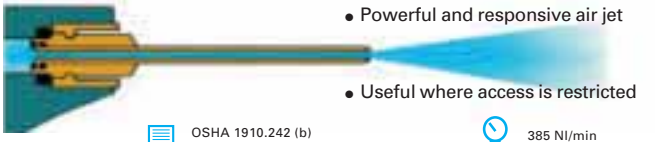
## 0690 04 straight tube nozzle (short)



nickel-plated brass




| C | DN | | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| M12x1,25 | 2,5 | 0690 04 00 | 15 | 102 | 77 | 0,035 |

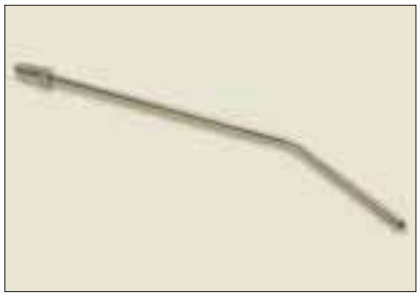


- Powerful and responsive air jet
- Useful where access is restricted

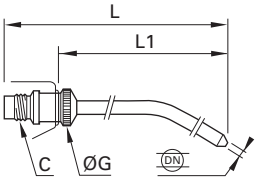
OSHA 1910.242 (b)
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

385 Nl/min
82 dBA
21°

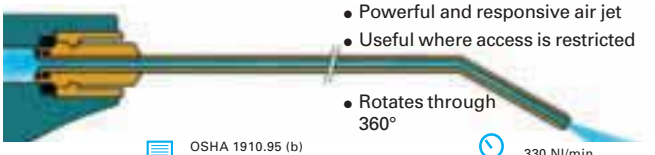
## 0690 05 angled tube nozzle (long)



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°

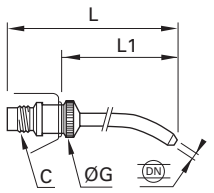
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

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

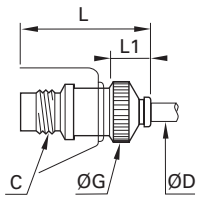
565 Nl/min
86 dBA
21°

# 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

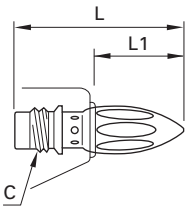
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

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

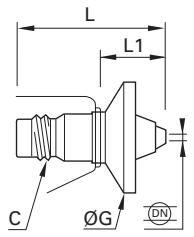
OSHA 1910.95 (b)
Directive 2003/10/CE

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

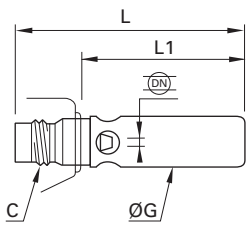
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

650 Nl/min
86 dBA
jet 24°
screen 140°

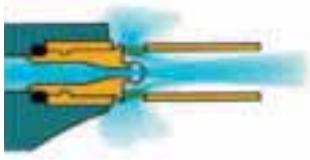
## 0690 10 booster nozzle



**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

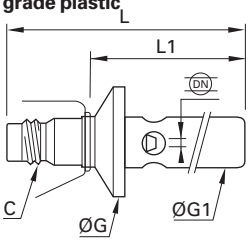
OSHA 1910.95 (b)
Directive 2003/10/CE
See recommendations on chart page M5

335 Nl/min
99 dBA
28°

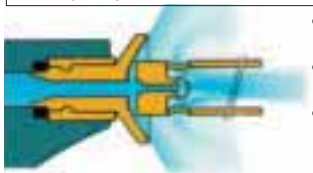
## 0690 11 booster nozzle with air screen



**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 |



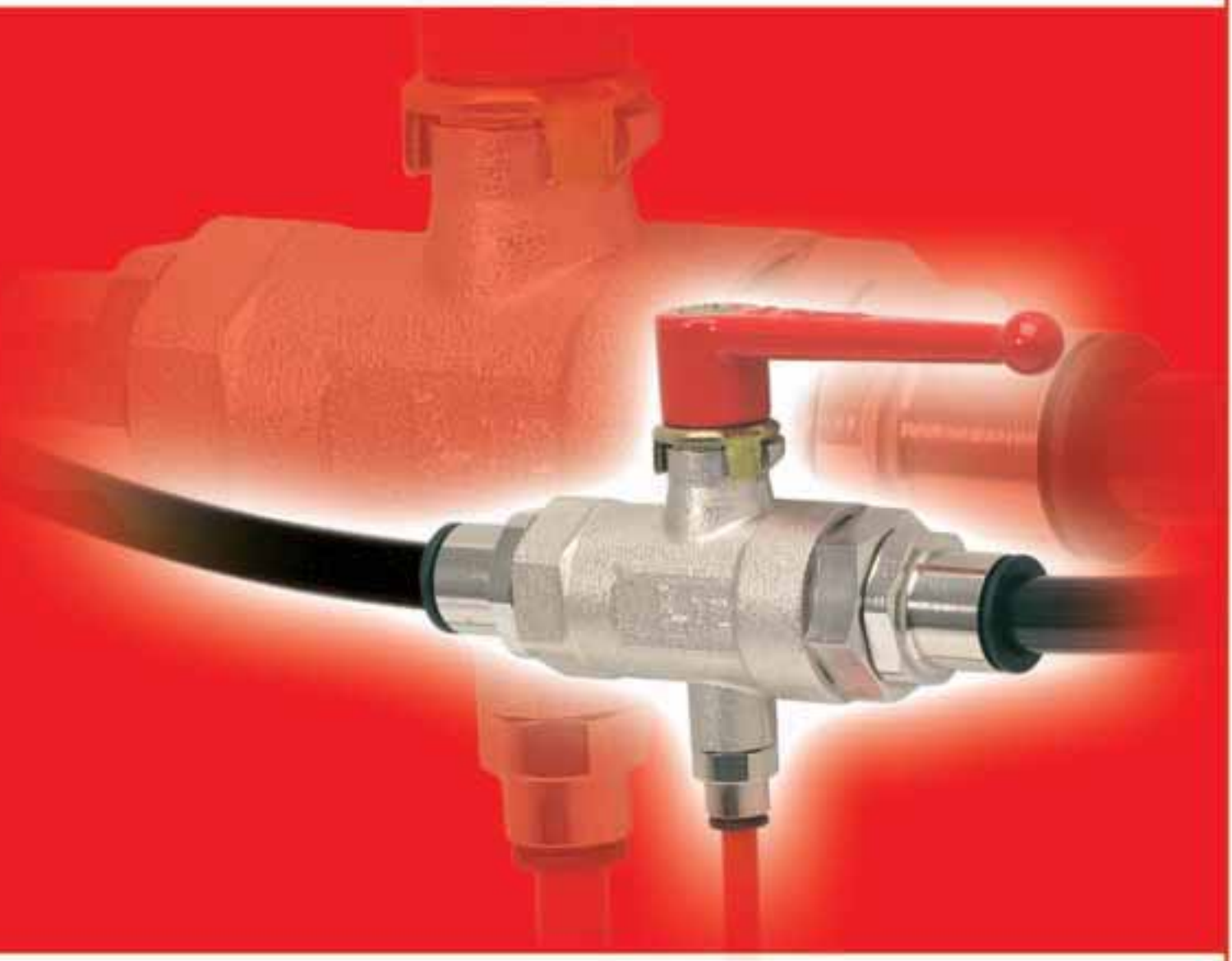
- Has the same venturi features as the booster nozzle
- No risk of overpressure when nozzle is blocked
- An air screen and an air deflector prevent dust and swarf being blown back at the operator

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.

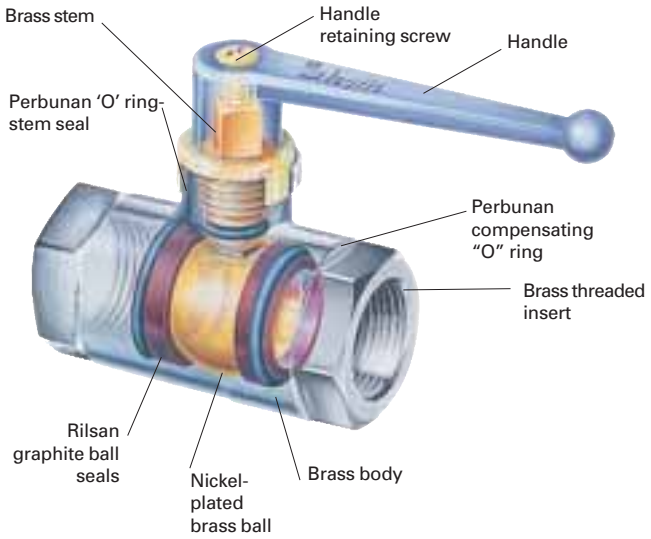
**Principal advantages**:

- 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



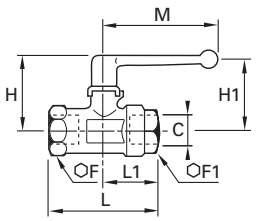

| | | | | | | |
|---|---|---|---|---|---|---|
| **working fluids** | see application table on pages R24 to R27 | | | | | |
| **working pressure** | 20 to 40 bar depending on the model | | | | | |
| **working temperature** | - 20° to + 80°C | | | | | |
| **constituent materials** | body : sand blasted nickel-plated brass<br>ball : polished brass<br>stem : brass<br>retaining nut : brass<br>ball seal : graphite impregnated rilsan<br>stem seal : nitrile<br>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 |

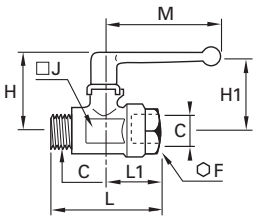
*models with CE marking CE
maximum working pressure : 40 bar

## 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 |

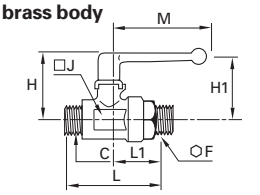
*models with CE marking CE
maximum working pressure : 40 bar

## 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 |

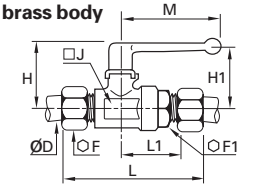
maximum working pressure : 40 bar

## 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 |

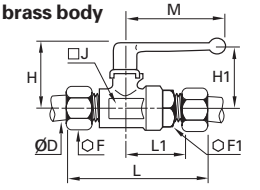
maximum working pressure : 40 bar

## 0414 with two couplings fitted with double taper rings

2/2



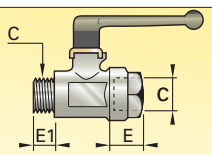
sand blasted nickel-plated brass body




| 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 | | |

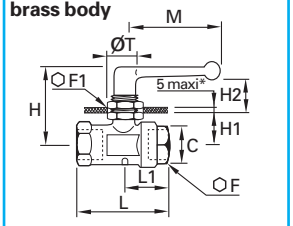
# standard ball valves for screw fixing and panel mounting

## 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 |

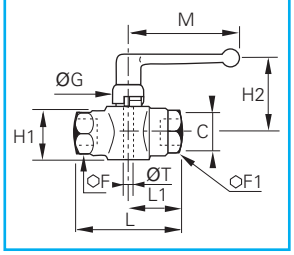
maximum working pressure : 20 bar
for model G 1/8, maximum panel thickness = 3 mm

## 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 |

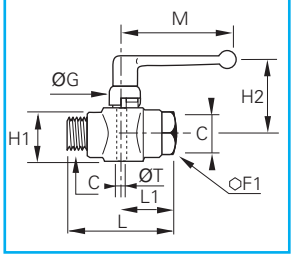
maximum working pressure : 40 bar

## 6401 male and female

2/2



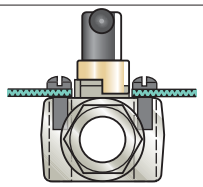
sand-blasted body nickel plated-brass



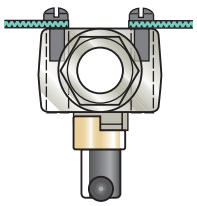

| C | DN | | F | G | H1 | H2 | L | L1 | M | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 6401 04 10 | 14 | 18 | 18 | 30 | 45 | 25 | 48 | 4x70 | 0,126 |
| G1/4 | 7 | 6401 07 13 | 19 | 19 | 24 | 31 | 52 | 28 | 48 | 5x80 | 0,215 |
| G3/8 | 10 | 6401 10 17 | 24 | 20 | 30 | 45 | 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

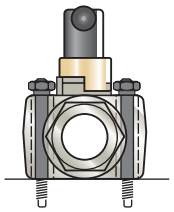
## different methods of mounting



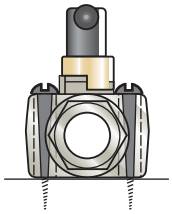
screw fixed mounting on a metal bulkhead with handle above the bulkhead



screw fixed mounting on a metal bulkhead with the complete valve below the bulkhead

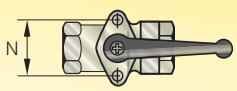


tapped fixing mounting onto a metal plate



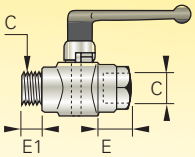
wood screw fixed mounting onto a wooden panel

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



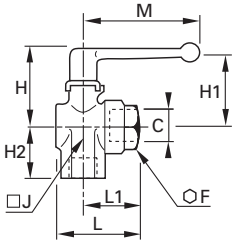

| C | G1/8 | G1/4 | G3/8 | G1/2 | G3/4 | G1" |
|---|---|---|---|---|---|---|
| E | 8 | 12 | 12 | 15 | 16,5 | 19 |
| E1 | 7 | 9 | 11 | 12 | | |

## 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 |

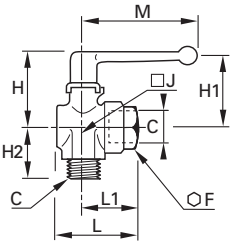
maximum working pressure : 20 bar

## 0471 male and female

2/2



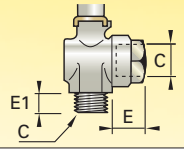
sand blasted nickel-plated brass body




| 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 |

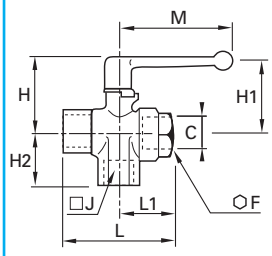
# standard 3 way ball valves

## 0482 female right angled porting

3/3

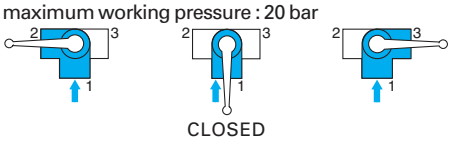


sand blasted nickel-plated brass body




| 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

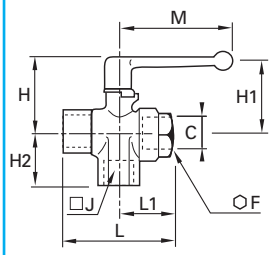



## 0483 female right angled porting without closed position

3/3

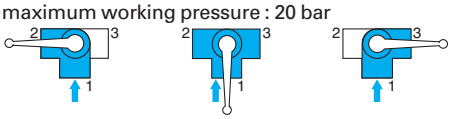


sand blasted nickel-plated brass body




| 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

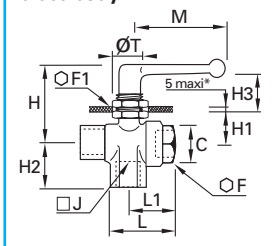



## 0448 panel mountable female right angled porting

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

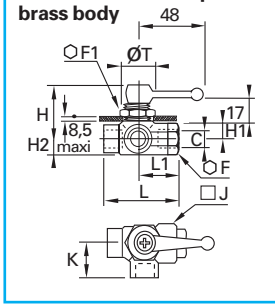



## 0452 panel mountable female equal plane porting - 3 port 2way

3/2

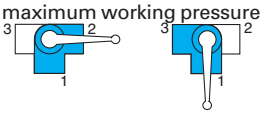


sand blasted nickel-plated brass body

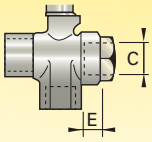



| C | DN | | F | F1 | H | H1 | H2 | J | K | L | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 0452 04 10 | 14 | 22 | 39 | 10 | 8 | 16 | 18 | 44 | 25 | 19 | 0,316 |
| G1/4 | 6 | 0452 06 13 | 19 | 24 | 40 | 11 | 11 | 23 | 24 | 53 | 28 | 20 | 0,298 |

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**

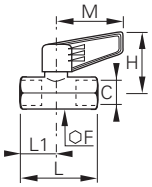
- **maximum working pressure** : 12 bar
- **working temperature** : -20° to +80°C

## 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 |

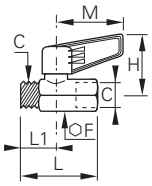
* Zamac short handle

## 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 |

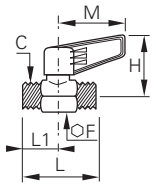
* Zamac short handle

## 0490 double male

2/2



**nickel-plated brass body**
**polymer HR handle**



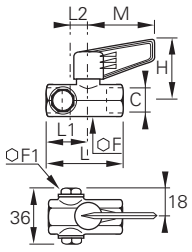

| C | DN | | F | H | L | L1 | M | kg |
|---|---|---|---|---|---|---|---|---|
| G1/4 | 4 | 0490 04 13 | 17 | 34 | 39 | 17 | 35 | 0,070 |
| G3/8 | 7 | 0490 07 17 | 22 | 38 | 44 | 20 | 43 | 0,108 |
| G1/2 | 10 | 0490 10 21 | 24 | 44 | 53 | 24 | 50 | 0,152 |
| G3/4 | 13 | 0490 13 27 | 30 | 46 | 59 | 25 | 50 | 0,218 |

## 0494 double female with two vent plugs

2/2



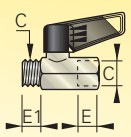
**nickel-plated brass body**
**polymer HR handle**




| 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 |

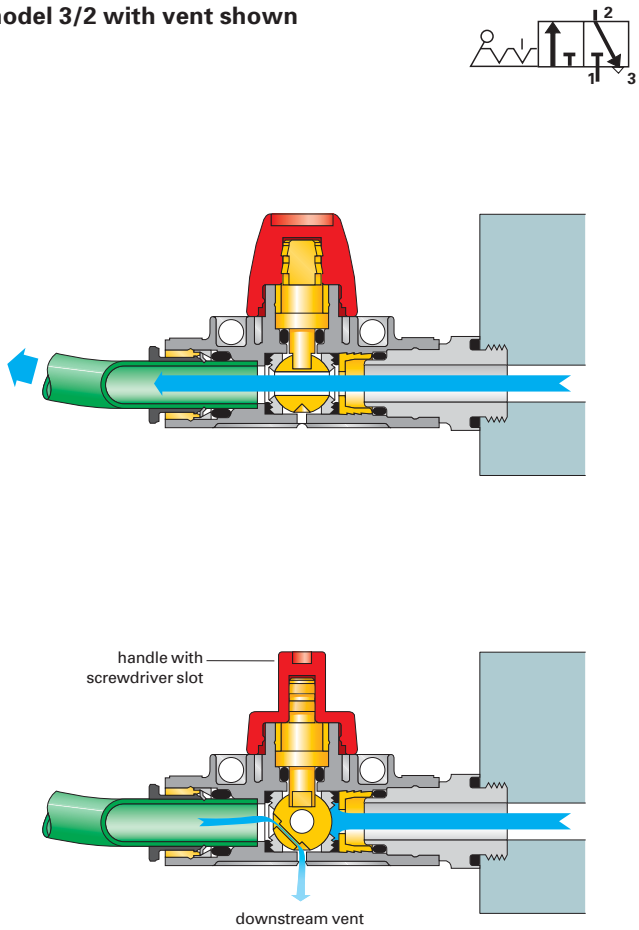
Light series ball valves are also available with a square stem and without handle . Please refer to page R12.

**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.

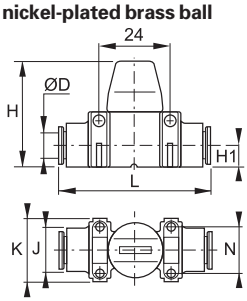
## Technical specifications

| | |
|---|---|
| **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

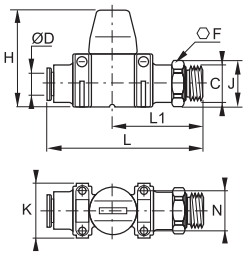



| ØD | | H | H1 | J | K | L | N | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 7913 04 00 | 37 | 7,5 | 15 | 22 | 51 | 16,2 | 0,022 |
| 6 | 7913 06 00 | 37 | 7,5 | 15 | 22 | 52 | 16,2 | 0,041 |
| 8 | 7913 08 00 | 37 | 7,5 | 15 | 22 | 52 | 16,2 | 0,056 |
| 10 | 7913 10 00 | 43 | 11 | 20 | 30 | 66 | 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

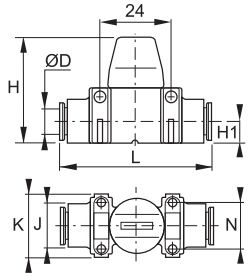



| ØD | C | | F | H | J | K | L | L1 | N | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 7914 06 10 | 13 | 37 | 14 | 22 | 62 | 37 | 16,2 | 0,054 |
| 8 | G1/4 | 7914 08 13 | 16 | 37 | 17,5 | 22 | 61 | 35 | 16,2 | 0,068 |
| 10 | G3/8 | 7914 10 17 | 20 | 43 | 22 | 30 | 74 | 41 | 22 | 0,102 |
| 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

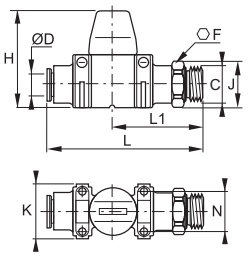



| ØD | | H | H1 | J | K | L | N | kg |
|---|---|---|---|---|---|---|---|---|
| 4 | 7910 04 00 | 37 | 7,5 | 15 | 22 | 51 | 16,2 | 0,021 |
| 6 | 7910 06 00 | 37 | 7,5 | 15 | 22 | 52 | 16,2 | 0,040 |
| 8 | 7910 08 00 | 37 | 7,5 | 15 | 22 | 52 | 16,2 | 0,055 |
| 10 | 7910 10 00 | 43 | 11 | 20 | 30 | 66 | 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

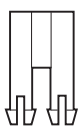



| ØD | C | | F | H | J | K | L | L1 | N | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 7911 06 10 | 13 | 37 | 14 | 22 | 62 | 37 | 16,2 | 0,052 |
| 8 | G1/4 | 7911 08 13 | 16 | 37 | 17,5 | 22 | 61 | 35 | 16,2 | 0,066 |
| 10 | G3/8 | 7911 10 17 | 20 | 43 | 22 | 30 | 74 | 41 | 16,2 | 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.



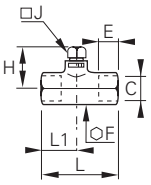
| ØD | | kg |
|---|---|---|
| 4 | 7000 00 05 | 0,004 |
| 6 | 7000 00 05 | 0,004 |
| 8 | 7000 00 05 | 0,004 |
| 10 | 7000 00 06 | 0,009 |
| 12 | 7000 00 06 | 0,009 |

## 0497 double female with square stem

2/2



sand blasted brass body



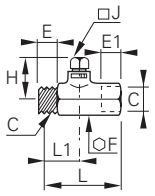

| C | DN | | E | F | H | J | L | L1 | kg |
|---|---|---|---|---|---|---|---|---|---|
| G1/4 | 4 | 0497 04 13 | 9 | 17 | 25 | 7 | 39 | 17 | 0,067 |
| G3/8 | 7 | 0497 07 17 | 11 | 22 | 26 | 7 | 45 | 20 | 0,114 |
| G1/2 | 10 | 0497 10 21 | 12 | 24 | 29 | 10 | 54 | 25 | 0,144 |
| G3/4 | 13 | 0497 13 27 | 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 :**

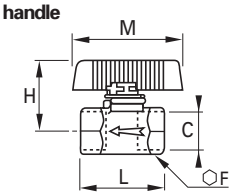
- maximum working pressure : 16 bar
- working temperature : - 20° to + 80°C
- compatible fluids : compressed air, industrial gas, water, cutting oil, mineral oil, fuel, inert gases, solid particles...
- lenticule : stainless steel
- seals : nitrile

## 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

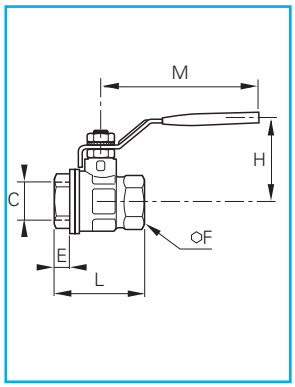
**Materials** :

- 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 :

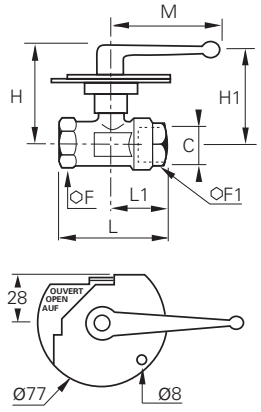
- in both **open and closed position**, by one padlock : models **0432** and **0439**
- **only in the closed position** by up to three padlocks : models **0437** and **0438**.

## 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 |

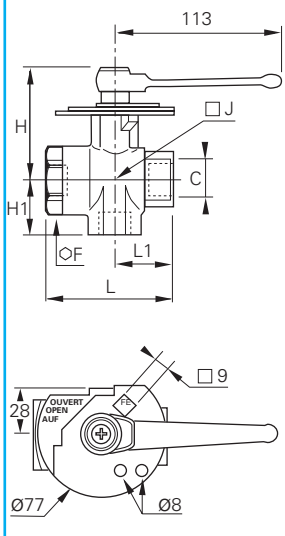
maximum service pressure : 40 bar
handle is non-removeable

## 0438 female 3 port 2 way lockable ball valve sand blasted nickel-plated body

3/2



**nickel plated brass**

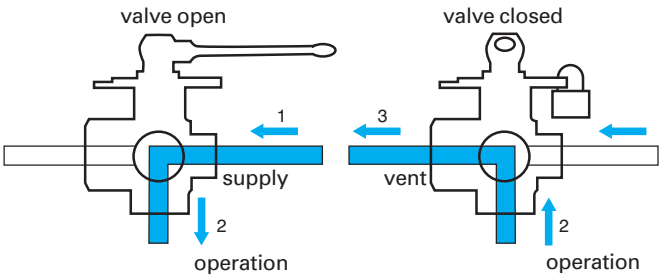



*fixed plate : zinc plated steel*
*moveable plate : steel, grey epoxy coated*

| 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**



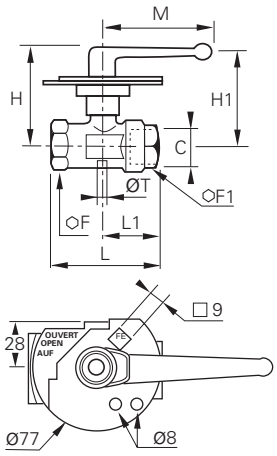

**removable handle** : where the handle is obstructed in its movement it can be refitted opposite the original position.

## 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 |

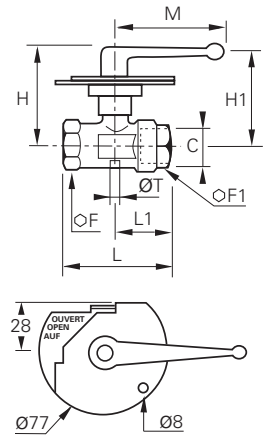
maximum working pressure : 40 bar
handle is non-removable

## 0439 double female with vent

3/2



**sand blasted nickel plated brass**

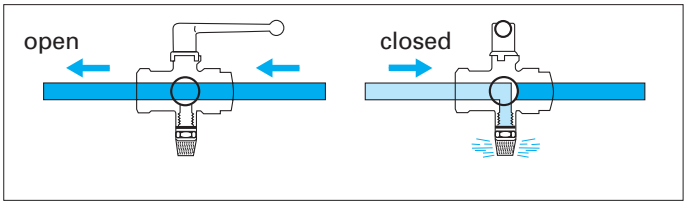



*both fixed and moveable plates are zinc plated steel*

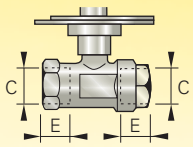
| C | DN | | F | F1 | H | H1 | L | L1 | M | T | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 0439 04 10 | 19 | 19 | 59 | 54 | 51 | 27 | 69 | 2 | 0,420 |
| G1/4 | 7 | 0439 07 13 | 24 | 24 | 60 | 55 | 59 | 31 | 69 | 2 | 0,480 |
| G3/8 | 10 | 0439 10 17 | 24 | 24 | 60 | 55 | 59 | 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

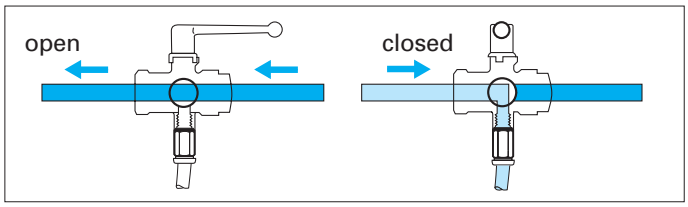



In certain situations, there is a requirement for stopping fluid circulation and venting the circuit. Therefore Legris offers 2 types of **in-line vented ball valves** :

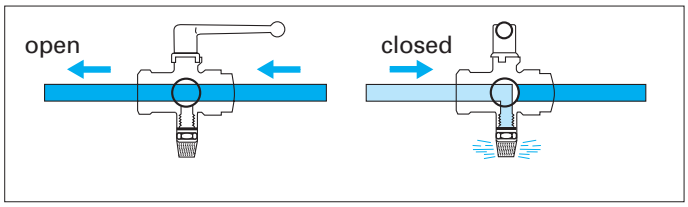
- **with threaded exhaust,** to allow discharge of downstream media.
- **with pin-hole vent,** for applications with no special discharge requirement

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

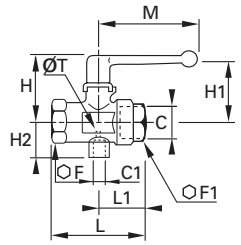



## 0489 double female BSPP valve with threaded exhaust

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 |

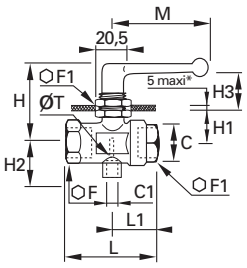
maximum working pressure : 40 bar

## 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 |

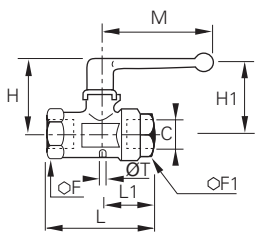
maximum working pressure : 20 bar

## 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

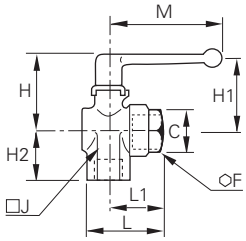
# standard vented ball valves with right angled flow

## 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 |

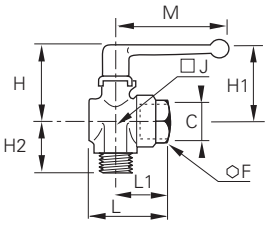
maximum working pressure : 20 bar

## 0461 male and female with vent

3/2



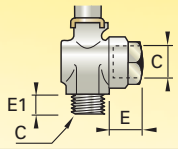
**sand blasted nickel-plated brass body + red handle**




| 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.

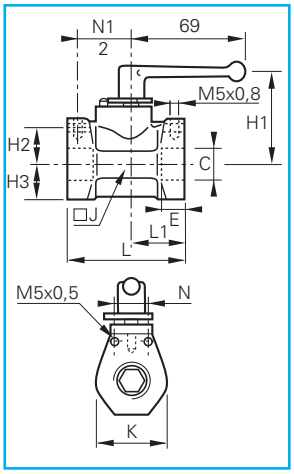
- **advantages**
- secure non removable inlet and outlet ports
- fixing holes for mounting assembly
- handle replaceable by a wheel
- excellent sealing at high and low pressure

- **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**

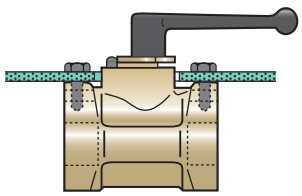
## 4402 double female



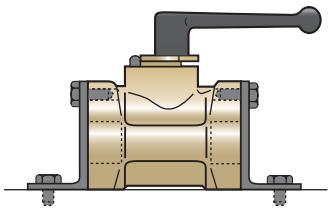



| C | DN | | E | H1 | H2 | H3 | J | K | L | L1 | N | N1/2 | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G1/4 | 7 | 4402 07 13 | 12 | 50 | 13 | 15 | 30 | 30 | 58 | 25 | 15 | 20 | 0,374 |
| G3/8 | 10 | 4402 10 17 | 12 | 54 | 23 | 19 | 36 | 39 | 72 | 36 | 20 | 30 | 0,756 |
| G1/2 | 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.

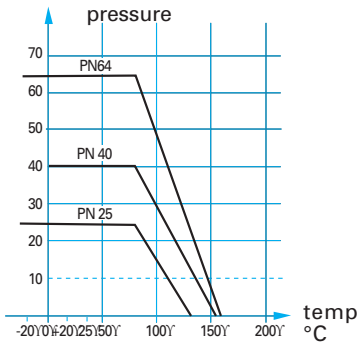
2 versions:

- "**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**

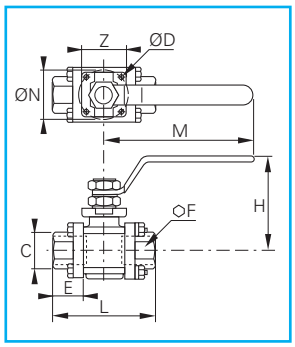



example : at 100°C
PN 64 becomes 48 bar
PN 40 becomes 30 bar
PN 42 becomes 17 bar
For temperatures between 150° and 200°, please consult us

## 4832 3 piece double female with lateral dismantling, BSP parallel

2/2





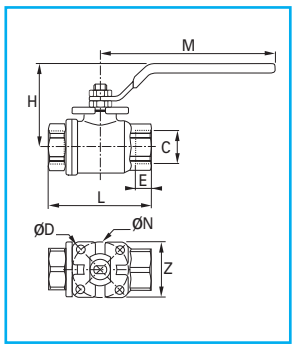

| C | DN | | PN | ØD | E | F | H | L | M | N | Z | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 10 | 4832 10 13 | 64 | - | 18 | 22 | 50 | 57 | 110,5 | - | - | 0,425 |
| 3/8 | 10 | 4832 10 17 | 64 | - | 18 | 22 | 50 | 57 | 110,5 | - | - | 0,400 |
| 1/2 | 15 | 4832 15 21 | 64 | 6 | 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





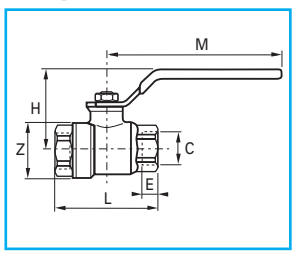

| C | DN | | PN | ØD | E | H | L | M | ØN | Z | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 10 | 4812 10 13 | 140 | 5,5 | 11 | 50 | 55 | 110 | 36 | 36 | 0,260 |
| 3/8 | 10 | 4812 10 17 | 140 | 5,5 | 11,4 | 50 | 55 | 110 | 36 | 36 | 0,240 |
| 1/2 | 15 | 4812 15 21 | 140 | 5,5 | 15 | 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 |

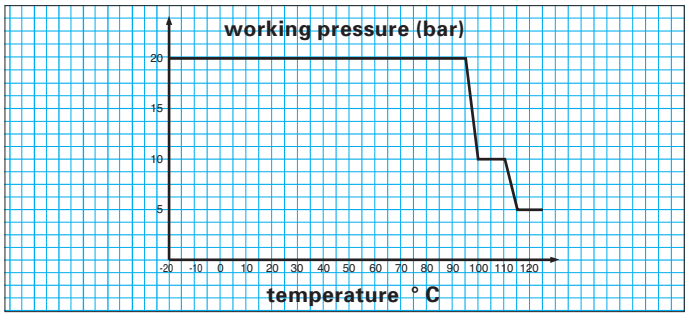
Threads conform to ISO 228-1.

**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).

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

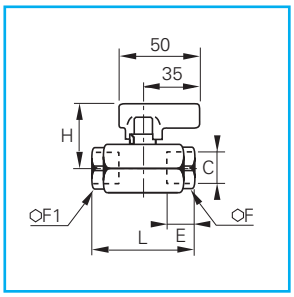
**pressure and temperature resistance of compact stainless steel series ball valves 0465**




2/2

## 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 :**



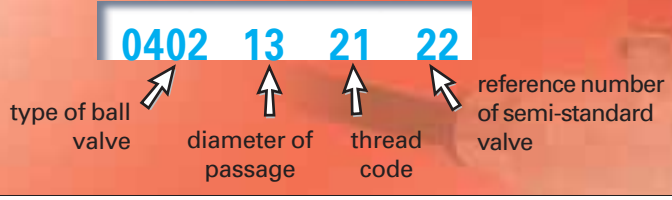

***A colour coded band on the handle identifies each semi-standard version.***

**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 | | | ● | | | | |

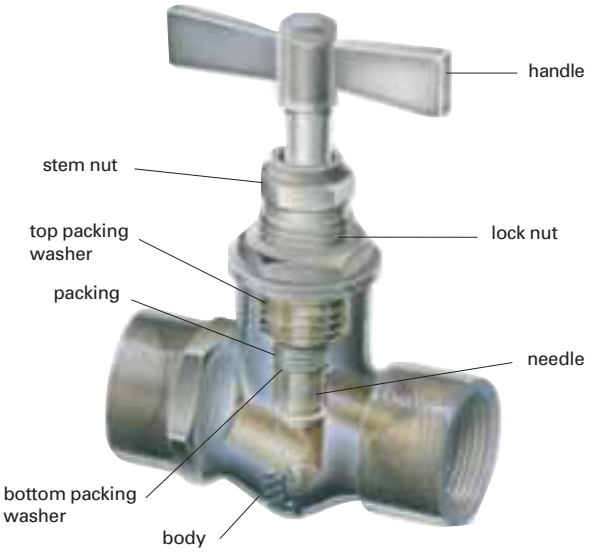
Note : because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

# 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

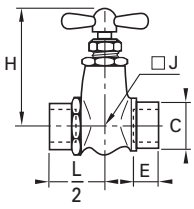



| | |
|---|---|
| **Maximum working pressure** | 120 bar |
| **Working temperature** | from - 20° C to + 100 ° C<br>(except 0510) |
| **constituent materials** | body : sandblasted nickel plated brass<br>handle : zamac or nickel plated brass<br>needle : nickel plated brass<br>stem nut : nickel plated brass (except 0510)<br>lock nut : nickel plated brass<br>washers : brass (except 0510)<br>packing : mineral fiber |

## 0502 in-line double female, BSP parallel



**sand blasted nickel plated brass**

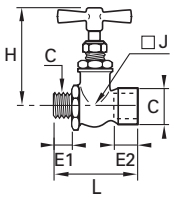



| C | DN | | E | H maxi | H mini | J | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 0502 04 10 | 9 | 56 | 50 | 17 | 23 | 0,110 |
| G1/4 | 4 | 0502 04 13 | 11 | 56 | 50 | 17 | 23 | 0,110 |
| G3/8 | 6 | 0502 06 17 | 12 | 67 | 60 | - | 26 | 0,160 |
| G3/8 | 9 | 0502 09 17 | 12 | 82 | 70 | - | 33 | 0,410 |

## 0501 in-line male/female, BSP parallel



**sand blasted nickel plated brass**

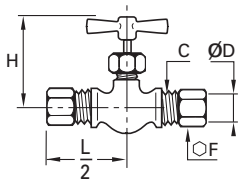



| C | DN | | E1 | E2 | H maxi | H mini | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 0501 04 10 | 7 | 9 | 56 | 50 | 17 | 44 | 0,105 |
| G1/4 | 4 | 0501 04 13 | 9,5 | 11 | 56 | 50 | 17 | 46 | 0,110 |
| G3/8 | 6 | 0501 06 17 | 9,5 | 12 | 67 | 60 | - | 48 | 0,155 |

## 0510 in-line economy valve with compression couplings



**sand blasted nickel plated brass**



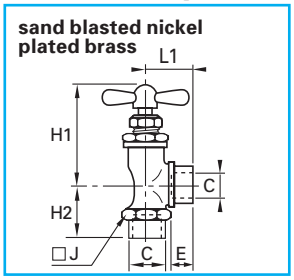

| ØD | DN | | C | F | H maxi | H mini | L/2 | kg |
|---|---|---|---|---|---|---|---|---|
| 6 | 4 | 0510 04 06 | 10x100 | 13 | 46 | 42 | 29 | 0,090 |
| 8 | 5 | 0510 05 08 | 12x100 | 14 | 46 | 42 | 30 | 0,090 |
| 10 | 5 | 0510 05 10 | 16x150 | 19 | 46 | 42 | 31 | 0,110 |

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

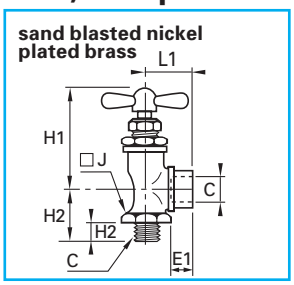



| C | DN | | E | H maxi | H1 mini | H2 | J | L1 | kg |
|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 0532 04 10 | 9 | 52 | 46 | 19 | 17 | 19 | 0,085 |
| G1/4 | 4 | 0532 04 13 | 11 | 52 | 46 | 21 | 17 | 21 | 0,095 |
| G1/4 | 6 | 0532 06 13 | 11 | 63 | 55 | 26 | 22 | 26 | 0,175 |

## 0531 right angled male/female, BSP parallel



sand blasted nickel plated brass

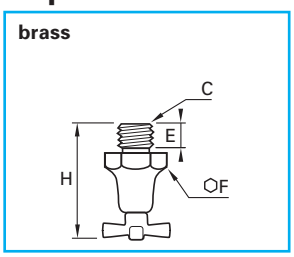



| C | DN | | E1 | E2 | H maxi | H1 mini | H2 | J | L1 | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| G1/8 | 4 | 0531 04 10 | 7 | 9 | 52 | 46 | 19 | 17 | 19 | 0,080 |
| G1/4 | 4 | 0531 04 13 | 9,5 | 11 | 52 | 46 | 21 | 17 | 21 | 0,085 |
| G1/4 | 6 | 0531 06 13 | 9,5 | 11 | 63 | 55 | 25 | 22 | 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

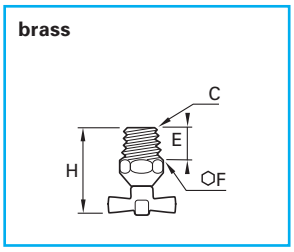



| C | DN | | E | F | H maxi | H mini | kg |
|---|---|---|---|---|---|---|---|
| G1/8 | 5 | 0562 05 10 | 8 | 16 | 40 | 36 | 0,035 |
| M10x1 | 5 | 0562 05 60 | 8 | 16 | 40 | 37,5 | 0,035 |
| G1/4 | 5 | 0562 05 13 | 10 | 19 | 42,5 | 38,5 | 0,040 |

## 0563 needle drain valve, NPT



brass

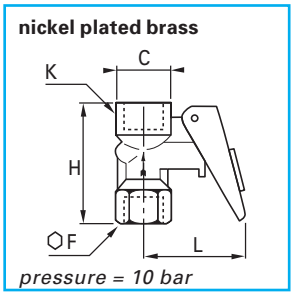



| C | DN | | E | F | H maxi | H mini | kg |
|---|---|---|---|---|---|---|---|
| 1/4 | 5 | 0563 05 14 | 10 | 14 | 32,5 | 28,5 | 0,060 |

## 0627 automatically venting double female pressure gauge valve



nickel plated brass




*pressure = 10 bar*

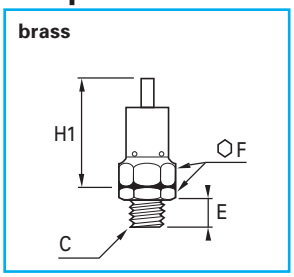
| C | | F | H | K | L maxi | L mini | kg |
|---|---|---|---|---|---|---|---|
| G1/4 | 0627 00 13 | 19 | 43,5 | 20 | 22 | 40 | 0,100 |

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



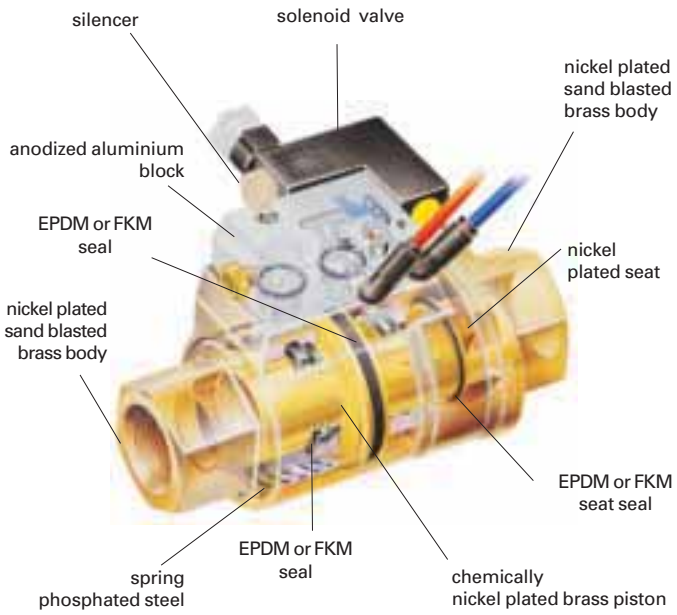

Designed with a view to overcoming the limitations of traditional actuators, the **Legris axial valve** offers the functions of a valve fitted with an actuator. A pneumatic automation device is fitted directly into the valve.

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**.

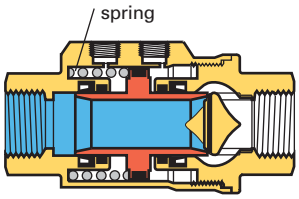
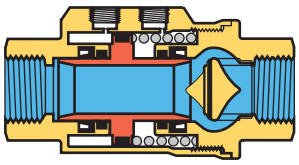
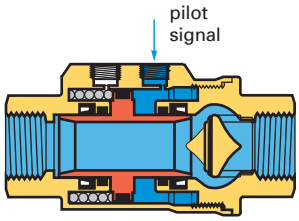
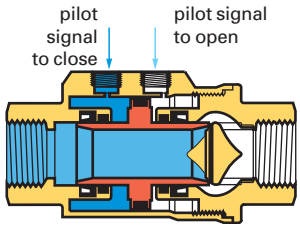
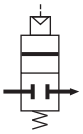
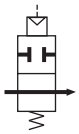
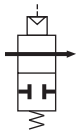
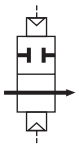
## technical specifications




| | |
|---|---|
| **transported fluid** | - all fluids compatible with :<br>• **FKM** : water, air, oils, greases...<br>• **EPDM** : hot water, air, steam... |
| **maximum working pressure** | 10 bar |
| **maximum temperature** | with FKM seal + 135° C<br>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<br>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**  |

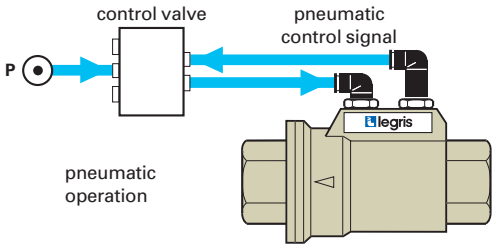
## which control method ?

The **Legris** axial valve offers three different control methods dependant on the requirements of the installation:

## pneumatic control

**example : 4222 axial valve, double acting**

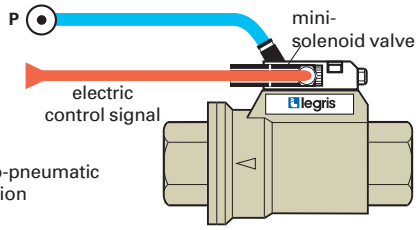
-on-site control.
-for **repetitive** on/off **cycles**.
-remote control in case of **difficulty of access** to a machine.




## electro-pneumatic control

**example :**
**4202 axial valve, normally closed**
**+ 4298 mini-solenoid valve and subbase**

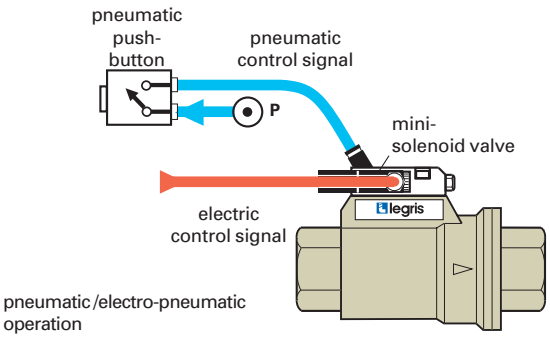
- for industrial automation requiring **remote control**.




## pneumatic/electro-pneumatic dual control

**example :**
**4212 axial valve, normally open**
**+ 4298 mini-solenoid valve and subbase**
**+ 4299 switch**

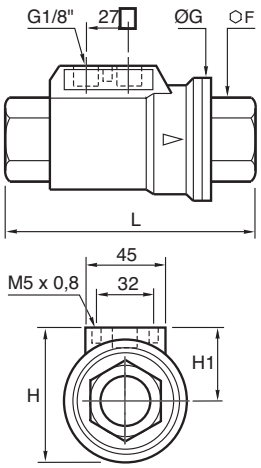
-dual control structure
-for increased safety :
prevents all localized operating errors.



## 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 |

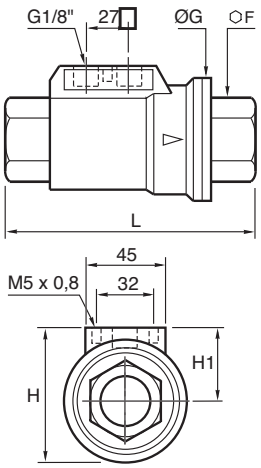
| C | DN | EPDM seal | F | G | H | H1 | L | kg |
|---|---|---|---|---|---|---|---|---|
| G3/8 | 10 | 4202 10 17 30 | 22 | 46 | 54 | 31 | 98 | 0,814 |
| G1/2 | 15 | 4202 15 21 30 | 27 | 52 | 60 | 35 | 112 | 1,085 |
| G3/4 | 20 | 4202 20 27 30 | 33 | 64 | 70 | 38 | 135 | 1,634 |
| G1" | 25 | 4202 25 34 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 |

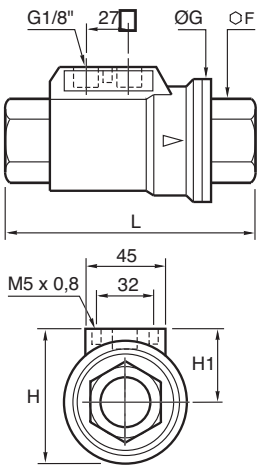
| C | DN | EPDM seal | F | G | H | H1 | L | kg |
|---|---|---|---|---|---|---|---|---|
| G3/8 | 10 | 4212 10 17 30 | 22 | 46 | 54 | 31 | 98 | 0,814 |
| G1/2 | 15 | 4212 15 21 30 | 27 | 52 | 60 | 35 | 112 | 1,085 |
| G3/4 | 20 | 4212 20 27 30 | 33 | 64 | 70 | 38 | 135 | 1,634 |
| G1" | 25 | 4212 25 34 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 |
| G1/2 | 15 | 4222 15 21 30 | 27 | 52 | 60 | 35 | 112 | 1,085 |
| 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 |

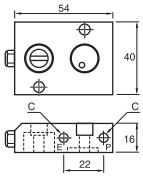
Pilot port : 1/8" BSP parallel

Face plate in accordance with recommendations in force (NAMUR). *Models with CE marking CE

## 4298 subbase for solenoid pilot valve



anodized aluminium



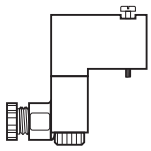

| C | | kg |
|---|---|---|
| M5x0,8 | 4298 00 01 | 0,094 |

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



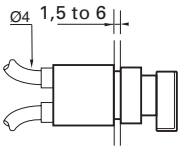


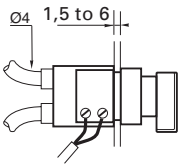
| voltage | | |
|---|---|---|
| 24V ⎓ | Alternating current | 4298 01 01 |
| 24V ∿ | Direct current | 4298 01 02 |
| 110V ∿ | Direct current | 4298 02 01 |
| 220V ∿ | Direct current | 4298 02 02 |

## 4299 pneumatic button/electro-pneumatic








| 1 pneumatic contact | |
|---|---|
| standard | 4299 01 01 |
| with key | 4299 01 02 |

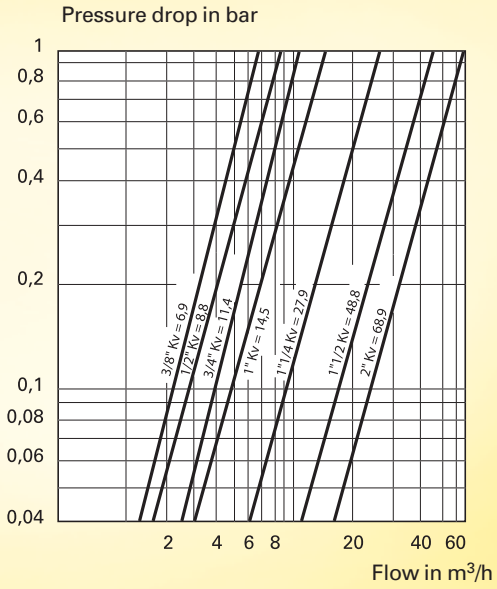
| 1 electro-pneumatic contact | |
|---|---|
| standard | 4299 02 01 |
| with key | 4299 02 02 |

*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

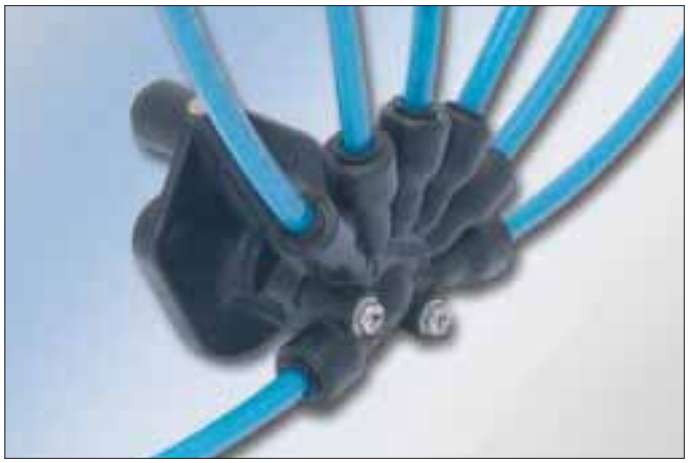
# special products

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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