



# pneumatic push-in fittings system LF 3000®



Invented and launched by **Legris** in 1969, the **LF 3000® system** has become universally adopted. It has been designed using a simple and widely proven operating principle which allows instant fitting. The **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 taken into account the requirements of its customers, i.e. optimisation of performance, miniaturization and appearance.

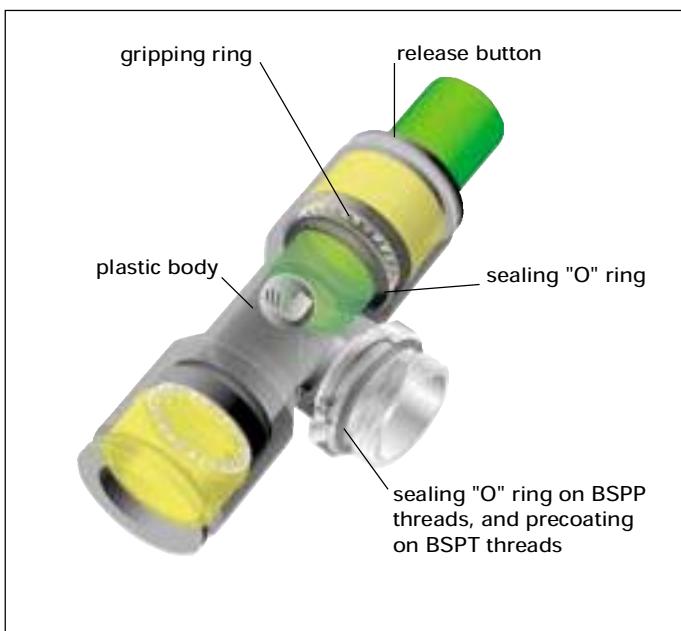
In order to be utilised to its maximum capability, the **LF 3000® system** is available in 3 ranges :

- 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 fittings are in service throughout the world. Designed for pneumatic installations, the **LF 3000® system** is therefore an essential component in a wide variety of industries.

## technical specifications

Reliable performance is dependent upon the type of tubing being used, ambient temperature and fluid conveyed together with the suitability of component materials of the fitting, according to the application.



### suitable fluids

**compressed air**  
*LF 3000® can also be used for conveying various types of liquids (water, cutting oil, etc) for industrial applications. The working pressure, from 0 to 6 / 10 bar, and temperatures, from 0 to 60°C, are dependent upon the fluid conveyed and the type of 'O' ring used. For further information, please consult us.*

### working pressure

20 bar maximum  
Maximum circuit pressure depends equally on the type and diameter of tubing used.

### vacuum capability

vacuum of 755 mm Hg (99% vacuum)

### working temperature

-20° to +80°C  
The fitting's suitability depends equally on the type and OD of the tube used.  
For temperature above 80°C, please consult us.

### constituent materials

**body** : glass reinforced nylon 6.6  
**collar** : nylon  
**gripping ring** : stainless steel  
**"O" rings** : nitrile (EPDM, FPM upon request)  
**sub-base** : nickel-plated brass (stainless steel upon request)

### maximum tightening torque for LF 3000® fittings, BSPP threads, M5 and M7

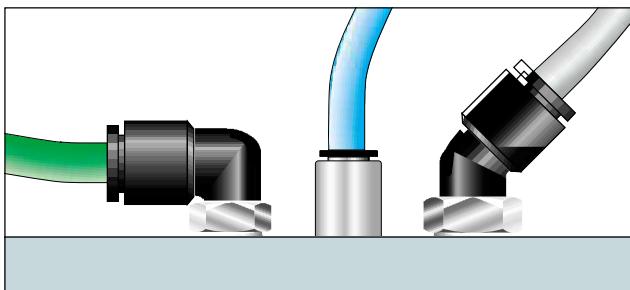
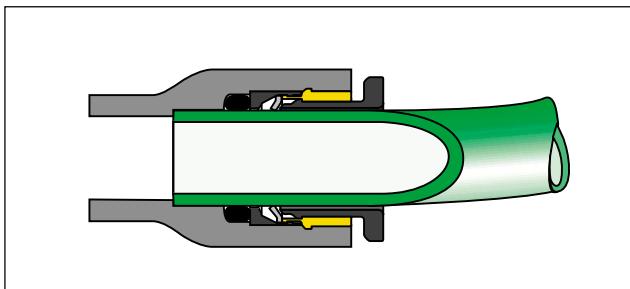
	Thread M3 x 0,5	M5 x 0,8	M7 x 1	G1/8"	G1/4"	G3/8"	G1/2"
m. da N	0,06	0,16	0,8	0,8	1,2	3	3,5

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

# Advantages of system LF 3000®

## PERFORMANCE AND RELIABILITY

- **full flow** : as gripping and sealing within the fitting is achieved using the outside of the tube without deformation, 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 optimized 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 items** on request.

## COMPACT AND AESTHETIC

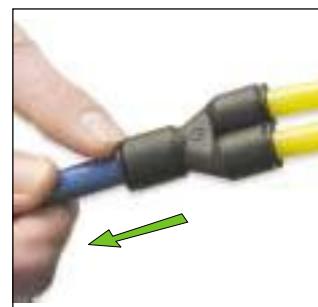
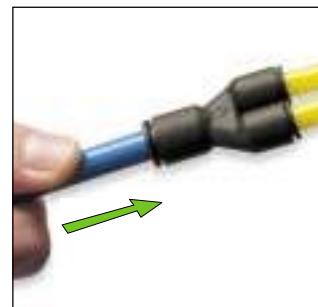
- optimized dimensions and new body designs, to satisfy the **ergonomics** and **aesthetics** of pneumatic installations.

## LIGHT WEIGHT

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

## IMMEDIATE SEAL

- for **parallel threaded fittings**, due to a patented built in captive 'O' ring seal.
- for **tapered threaded fittings** due to pre-coating.



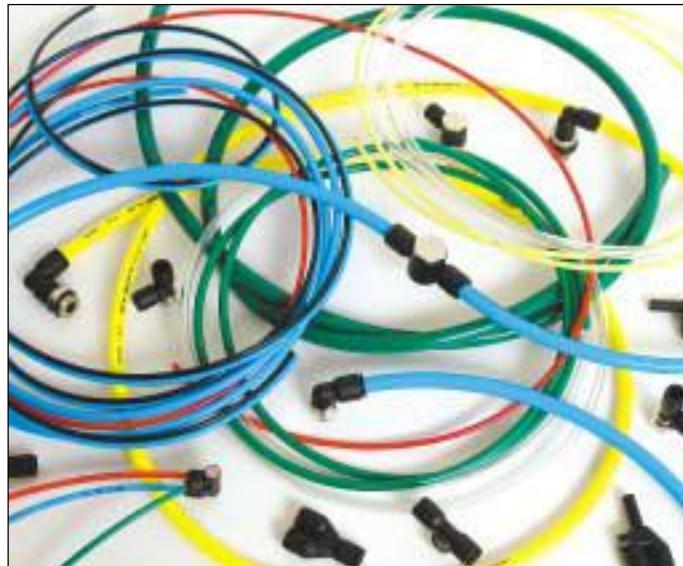
## INSTANT CONNECTION AND DISCONNECTION

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

*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.*

**LF 3000®** pneumatic push-in fittings can be used with various Legris **technical tubing**

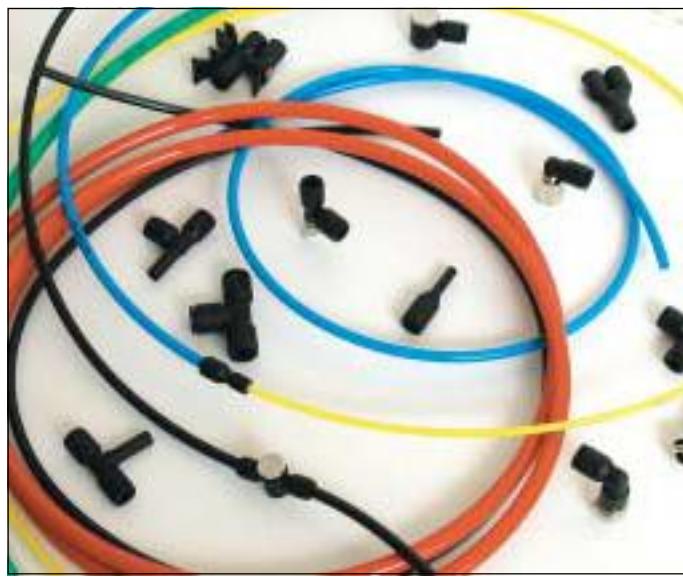
### semi-rigid close tolerance nylon tubing



Main advantages of use of Legris nylon tubing with LF 3000® push-in fittings

- large range of working temperatures and pressures
- small pressure drop
- constant rigidity, good ageing
- good absorption of vibration
- 7 colours for easy identification of circuits
- 3 mm to 16 mm O.D.
- in 25 m rolls: part number **1025P**
- in 100 m rolls: part number **1100P**

### close tolerance flexible polyurethane tubing



Main advantages of use of Legris polyurethane tubing with LF 3000® push-in fittings

- high flexibility and small bend radius
- large range of working temperatures and pressures
- small pressure drop
- constant rigidity, good ageing
- good absorption of vibration
- 7 colours for easy identification of circuits
- 3 mm to 14 mm O.D.
- 2 ranges: polyester and polyether tubing
- in 25 m rolls:
  - polyester polyurethane, part number **1025U**
  - polyether polyurethane, part number **1025U..R**
- in 100 m rolls:
  - polyester polyurethane, part number **1100U**
  - polyether polyurethane, part number **1100U..R**

Legris polyurethane tubing is supplied in tubepack® boxes

- easy storage
- protection of tubing against outside aggression
- easy dispensing of the tube
- immediate visual identification of tubing



You can find LF 3000® push-in fittings on legris.com

## online catalogue



- with the **online catalogue**, regularly updated, you can easily find the whole range of LF 3000® for metric and inch tubing.
- you can find a product quickly thanks to 3 search options
- you can get a complete product datasheet with a photo, technical drawing and specifications
- you can ask for a quotation from our distributors
- you can download CAD drawings for free



## learning space



- with the **learning space** designed to optimize performance of your installations, you will find **animated presentations** of LF 3000® fittings and their functions:
- instant connection and disconnection
- applications and solutions to match your equipment requirements













