Legris designs, produces and sells technical components designed for numerous industrial applications.
The Legris offer - innovative and highest quality - is specifically adapted for a variety of industrial and food process activities, including:

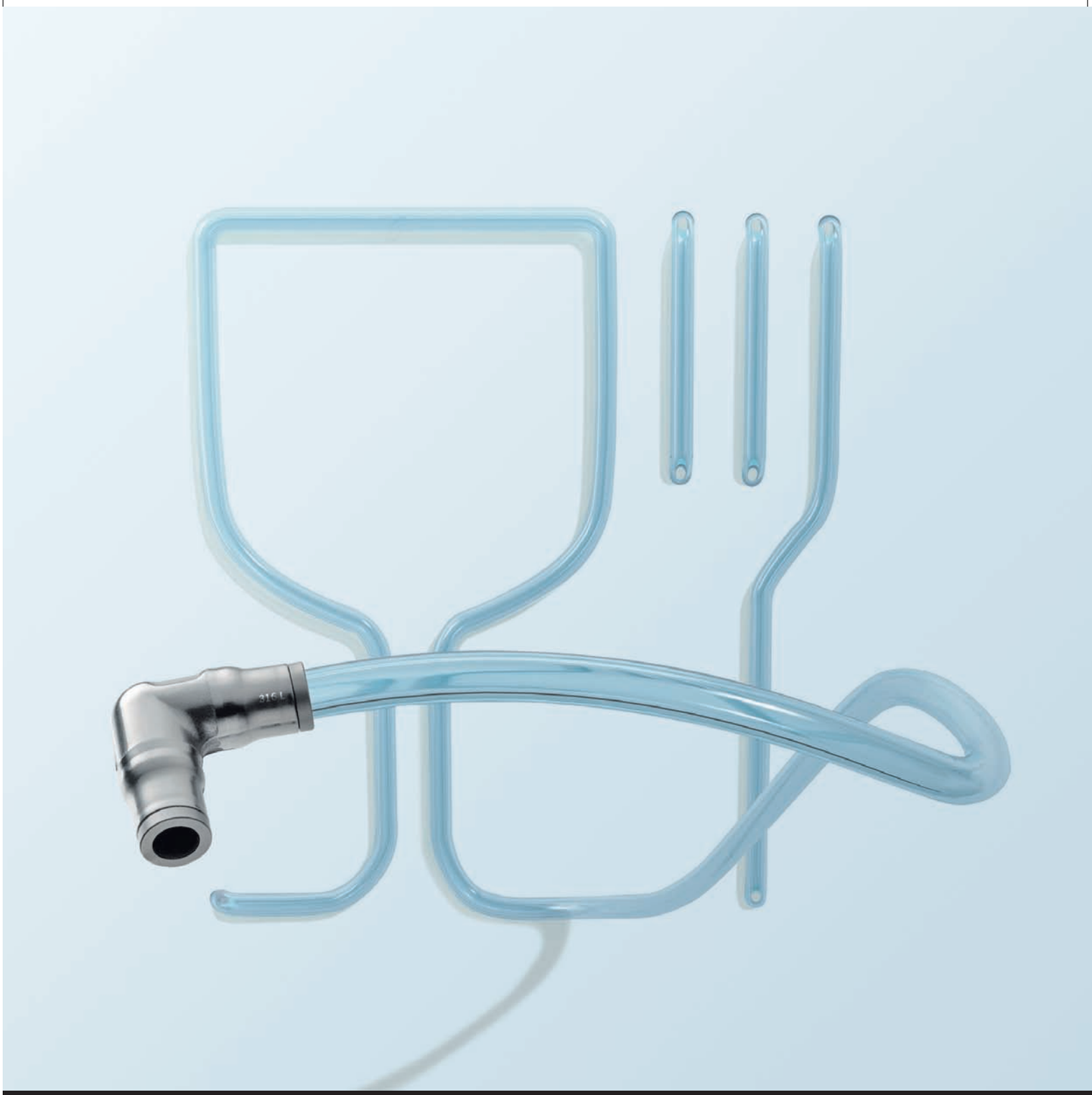
- AUTOMOTIVE PROCESS
- **FOOD INDUSTRY**
- PACKAGING

FLUID SYSTEMS AND CONNECTORS EUROPE

LEGRIS SAS
GROUPE PARKER HANNIFIN
BP 70411
74 rue de Paris
35704 Rennes Cedex 7
Tél. : +33 2 99 25 55 00
Fax. : +33 2 99 25 55 99

www.legris.com
www.liquifit.net

0000 05 97EN 1208 - ALTAVIA victor • 02 51 80 28 28 • RCS B 330 792 789 - Année 2008 - N°10005



Instant fittings, tubing, function fittings, couplers, accessories

Connection solutions for food machinery and process applications






Parker

legris connectic

High quality products, innovative solutions and an international presence.



A complete range of pneumatic products meeting the requirements of food processing and packaging applications.

Contents

Fittings adapted to each zone of the **food process industry** 4

Our solution for **each food zone area** 6

1&2 Robust products conveying any type of fluid, corrosion resistant, safe and easy to clean.



Our solution for the **splash zone** 10

3 Robust products, resistant to corrosion and mechanical constraints.



Our solution for the **non food zone** 12

4 Products with high performance pressure and temperature capability.



LIQUIfit™ 14

Our new range for the transportation of water, beverages and other consumable liquids.



Fittings adapted zone of the **food**

Member of the EHEDG (European Hygienic Equipment Design Group), Legris is committed to developing wide ranges of robust pneumatic components that are chemically resistant and

Food zone

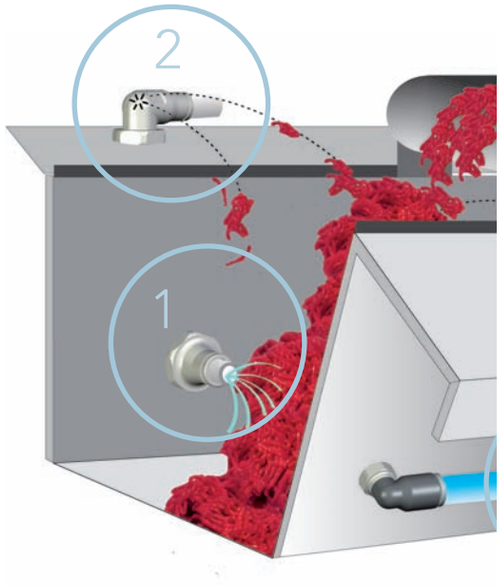


1 - Fluid and food
2 - Air, vacuum and water

CHARACTERISTICS OF THE ZONE

Surfaces in contact with foodstuffs or where there can be a risk of projection or migration of materials into the manufacturing process.

1&2



REQUIREMENTS FOR PNEUMATIC COMPONENTS

- High hygienic standards: materials and shapes suitable for use with foodstuffs.
- Aggressive cleaning agents: non corrosive, non toxic and non absorbent materials.
- Mechanical strength during use or when cleaning: robust product.

OUR PRODUCT ANSWER

A wide and complete range of robust stainless steel products, manufactured in accordance with HACCP methodology (Hazard Analysis Critical Control Point). Fittings with a hygienic design, easy to clean for permanent contact with foodstuffs, conforming to FDA and 1935/2004/CE standards.



Splash zone



3 - Air, water and vacuum

CHARACTERISTICS OF THE ZONE

Surfaces subject to the projection of foodstuffs, but with limited potential return to the manufacturing process.

3

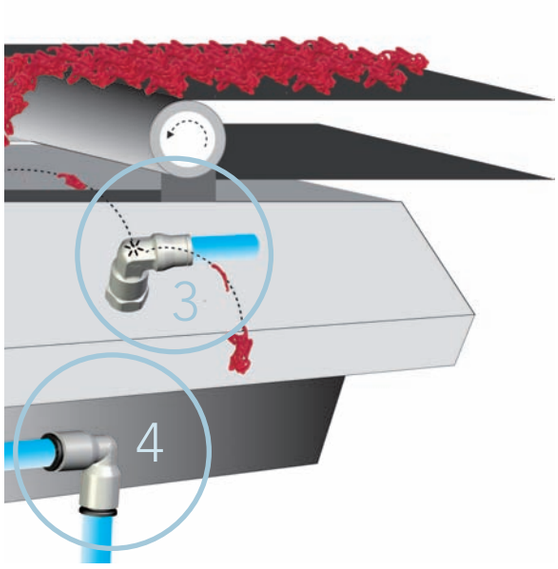
REQUIREMENTS FOR PNEUMATIC COMPONENTS

- High hygienic standards: materials and shapes suitable for use with foodstuffs.
- Aggressive cleaning agents: non corrosive, non toxic and non absorbent materials.
- Mechanical strength during use or when cleaning: robust product.

for use in each process industry

easy to clean. Our offer perfectly suits each food process zone, enabling the manufacture of machinery and equipment which meet 3A and EN 1672-2 standards.





Non food zone



4 - Air and vacuum

CHARACTERISTICS OF THE ZONE

Surfaces which are not in contact with foodstuffs.

4

REQUIREMENTS FOR PNEUMATIC COMPONENTS

- High pressures and temperatures: technical performance of components.
- Quick, reliable and safe connection / disconnection.
- Frequent cleaning: less corrosive materials.

OUR PRODUCT ANSWER

A wide range of high phosphorus bonded nickel plated brass fittings, compatible with many aggressive fluids.
A quick connecting, reliable and safe gripping system, extremely resistant to high pressures, temperatures and shocks.



OUR PRODUCT ANSWER

An extensive range of polymer fittings, with high mechanical and chemical resistance, optimized dimensions and body designs to satisfy the ergonomics and aesthetics of pneumatic installations.
A quick connecting, reliable and safe gripping system, extremely resistant to high pressures, temperatures and shocks.



Our solution for **the food**

STAINLESS STEEL INSTANT FITTINGS

316 L / FKM SEALS

THREADED FITTINGS



3905 / 3901
taper and parallel



3921 / 3931
taper and parallel



3909 / 3999
taper and parallel



3989 / 3979
taper and parallel



3903 / 3993
taper and parallel



3908 / 3998
taper and parallel

TUBE TO TUBE FITTINGS



3906
Ø4 to Ø12



3916
IP51
Ø4 to Ø12



3902
Ø4 to Ø12



3904
Ø4 to Ø12

PLUG-IN FITTINGS



3966
Ø4 to Ø10

CARTRIDGES



3900
Ø4 to Ø12

303/316 L / FKM SEALS

THREADED FITTINGS



3805 / 3801
taper and parallel



3821 / 3831
taper and parallel



3809 / 3899
taper and parallel



3889 / 3879
taper and parallel



3803 / 3893
taper and parallel



3808 / 3898
taper and parallel

TUBE TO TUBE FITTINGS



3806
Ø4 to Ø12



3816
IP51
Ø4 to Ø12



3802
Ø4 to Ø12



3804
Ø4 to Ø12

PLUG-IN FITTINGS



3866
Ø4 to Ø10

CARTRIDGES



3800
Ø4 to Ø12

INSTANT FITTINGS

Working pressure: 30 bar maximum
Vacuum: 99%
Temperature range: -20°C to +120°C
Available diameters: Ø4 to Ø12
Available threads: M5 to 1/2

FUNCTION FITTINGS 316 L[1]

FLOW REGULATORS WITH THREADED FITTINGS



7810
parallel



7820
parallel

QUICK EXHAUST VALVES WITH THREADED FITTINGS



7899
parallel

NON-RETURN VALVES WITH THREADED FITTINGS



4890
parallel



4891
parallel



4892
parallel

FUNCTION FITTINGS

Flow control regulators:
Working pressure: 1 to 10 bar / 1 to 16 bar (7820)
Temperature range: 0°C to +70°C / -15°C to 120°C (7820)
Available threads: M5 to 1/2

Exhaust valves:
Working pressure: 2 to 10 bar
Temperature range:
-10°C to +120°C (1/8 and 1/4) or
-20°C to +80°C (3/8 and 1")
Available threads: 1/8 to 1"

Non-return valves:
Working pressure: 0,5 to 40 bar
Temperature range:
-20°C to +180°C
Available threads: 1/8 to 1"

[1] Not suitable for the transportation of alimentary fluids.
[2] Authorised for contact with dry or temporarily moist foodstuffs (10 minutes maximum).
[3] Authorized for contact with foodstuffs, but sensitive to very aggressive chemical cleaning agents.

zone



ACCESSORIES

EQUAL ELBOWS



1843
female parallel



1844
male taper / female parallel

BULKHEAD ADAPTOR



1817
parallel

SLEEVES



1855
parallel



1862
Reducers - Increasers parallel

ADAPTORS



1864
male NPT / female parallel



1867
male taper / female NPT

REDUCERS



1863
male taper / female parallel

INCREASERS



1861
male taper / female parallel

PLUG-IN



3826

SILENCERS



0682
parallel

PLUGS



0285
taper

FLUOROPOLYMER TAPE

0605

STAINLESS STEEL FERRULES



1827
Ø4 to Ø14

TUBING

CALIBRATED FEP



1005T
1025T

CRYSTAL POLYETHER POLYURETHANE(2)



1025U..R
1100U..R

POLYETHYLENE (3)



1025Y
1100Y

BRAIDED PVC



1025V
1050V

STAINLESS STEEL BALL VALVES



4812
parallel



4832
parallel



0591
parallel



4810
parallel



0465
parallel

STAINLESS STEEL COUPLERS 316 L

FKM FDA SEALS



9201
male parallel body



9214
female parallel body



9287
male parallel probe



9286
female body BSP parallel

Ø INTERNAL

Series X20* 2,7 mm
Series X21* 5 mm
Series X25* 7,4 mm

*To order products with FKM FDA seals, please add suffix 21 (ex: 9201X20 19 21)

ACCESSORIES

Working Pressure: 150 bar maximum (silencers: 12bar)
Temperature range: -20°C to +180°C
Available threads: 1/8 to 1"

TUBING

External Diameters:
Ø4 to Ø12

BALL VALVES

Internal diameter:
4 to 50 mm
Available threads:
1/4 to 2"

COUPLERS

Working pressure: 35 bar maximum
Temperature range:
-15°C to +200°C
Available threads:
M5 to 1/2

Find all the technical characteristics of these products on our website legris.com. From the «Low pressure» menu, enter the reference for each item and access full details: technical data, dimensions, certificates, CAD drawings.



1&2

Stainless steel fittings

NEW

New range of stainless steel instant fittings combining robustness and hygienic design

The largest range on the market

- **2 new 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 full 316L stainless steel (except for the collet in 303), with FKM seals, for elemental chemical resistance and a competitive price positioning.
- **21 different product body shapes,** diameters from 4mm to 12mm, threads from M5 to 1/2.
- 2 thread types: **taper and parallel**.



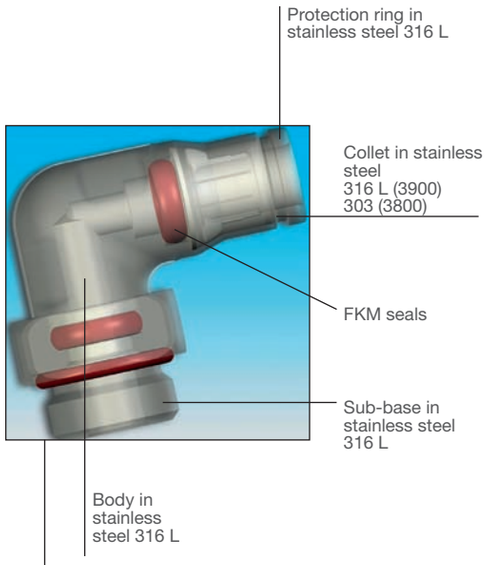


LF 3900 / 3800



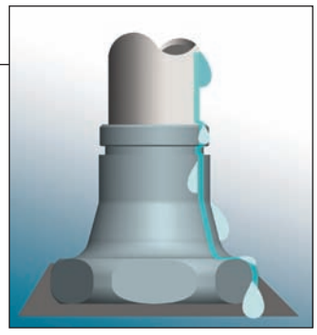
Reliable and robust design

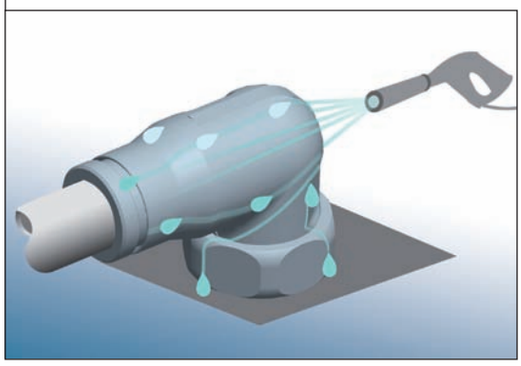
- **Proven gripping technology.**
  - The collet guarantees excellent gripping and improved pull-out forces for soft and stainless steel tubing.
  - The collet is resistant to mechanical shocks and prevents whiplash, in particular when using metallic (pre-grooved) tubing.
- **Simple and reliable design.**
- **100 % control of manufactured components** in order to guarantee quality, traceability and performance.
- **FKM seal** resistant to the majority of aggressive chemicals.
- **Pressure rating: 30 bar, temperature capability: 120°C**, continuous
- **Sealed bulkhead connectors** (to IP51) enabling complete protection against detrimental ingress in food and non food zones.



Hygienic design

- Nutriment grade materials and H1 grease conforming to FDA and 1934/2004 CE standards, permitting permanent contact with foodstuffs.
- A permissable 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 :





- Compact fittings with a polished surface for improved cleaning.
- Self draining design naturally ensures the dispersion of external fluids.
- Ra < 0,8 surface prevents food deposits from adhering to body.
- Minimum space between release button and body of fitting.
- Aerodynamic body shape, without dead zones or fixing holes, for improved and quicker fluid pressure cleaning.
- A range of parallel sub bases, reducing potential retention zones.

3

Our solution for the

BRASS NICKEL PLATED INSTANT FITTINGS (4)

THREADED FITTINGS



3675
taper



3601
parallel and metric



3681
metric



3614
parallel and metric



3609
taper



3699
parallel and metric



3608
taper

THREADED FITTINGS



3698
parallel and metric

BANJO FITTINGS



3618
parallel and metric

TUBE TO TUBE FITTINGS



3606
Ø4 to Ø14



3602
Ø4 to Ø14



3604
Ø4 to Ø14

TUBE TO TUBE FITTINGS



3616
IP51
Ø4 to Ø14



3639
Ø4 to Ø14

CARTRIDGES



3600
Ø4 to Ø14

PLUG-IN ACCESSORIES



3622
Ø4 to Ø14



3626
Ø4 to Ø14

BRASS NICKEL PLATED FUNCTION FITTINGS

FLOW REGULATORS WITH INSTANT FITTING



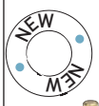
7100
parallel



7130
parallel and metric



7680
parallel





7170

BLOCKING FITTINGS WITH PUSH-IN CONNECTION



7880
parallel

EXHAUST VALVES WITH THREADED FITTINGS





7970
parallel



7971
male taper
female parallel

INSTANT FITTINGS

Working pressure: 30 bar maximum
Vacuum: 99%
Temperature range: -20°C to +120°C
Available diameters: Ø4 to Ø12
Available threads: M5 to 1/2

FUNCTION FITTINGS

Flow control regulators :	Working pressure: 1 to 10 bar Temperature range: 0°C to +70°C Available diameters: Ø4 to Ø12 Available threads: M5, 1/8 to 1/2
Blocking fittings :	Working pressure: 1 to 10 bar Temperature range: -20°C to + 70°C Available diameters: Ø4 to Ø12 Available threads: 1/8 to 1/2
Exhaust valves:	Working pressure: 0,7 to 10 bar (7870) 2 to 10 bar(7871) Temperature range: -20°C to + 70°C Available threads: M5, 1/8 to 1"

[1] Not suitable for the transportation of alimentary fluids.
[2] Authorised for contact with dry or temporarily moist foodstuffs (10 minutes maximum).
[3] Authorized for contact with foodstuffs, but sensitive to very aggressive chemical cleaning agents.
[4] Not suitable for permanent contact with foodstuffs.



splash zone

BRASS NICKEL PLATED ACCESSORIES

EQUAL ELBOWS



0912
female parallel and metric



0913
male taper / female parallel



0921
female metric

EQUAL TEE



0915
parallel and metric



0916
male taper / female parallel



0923
metric

EQUAL Y



0911
male taper / female parallel

EQUAL CROSSES



0908
parallel

ADAPTOR



0192
double male taper / parallel

PLUGS



0919
parallel and metric

TUBING

CALIBRATED FEP



1005T
1025T

CRYSTAL POLYETHER POLYURETHANE (2)



1025U..R
1100U..R

POLYETHYLENE (3)



1025Y
1100Y

BRAIDED PVC



1025V
1050V

BRASS NICKEL PLATED BALL VALVES

STRAIGHT FLUOROPOLYMER SERIES



4902
parallel

STRAIGHT UNIVERSAL SERIES



0402
parallel



0401
parallel



0482
parallel



0452
parallel



0439
parallel

STAINLESS STEEL COUPLERS 316 L

FKW SEALS



9201
male parallel body



9214
female parallel body



9287
male parallel probe



9286
female parallel probe

Ø INTERNAL
Series X20 2,7 mm
Series X21 5 mm
Series X25 7,4 mm

ACCESSORIES

Working pressure: 60 bar maximum
Temperature range:
-10°C to +80°C
Available threads: M5 to 3/4

TUBING

External diameters:
Ø4 to Ø12

BALL VALVES

Fluoropolymer series :
Working pressure: 25 to 30 bar
Temperature range :
-20°C to +130°C
Internal diameter: 10 to 100 mm
Available threads: 1/4 to 4"
Straight universal series :
Working pressure: 20 to 40 bar
Temperature range:
-20°C to +80°C
Internal diameter 4 to 40 mm
Available threads: 1/8 to 2"

COUPLERS

Working pressure: 35 bar
Temperature range:
-15°C to +200°C
Available threads:
M5 to 1/2

Find all the technical characteristics of these products on our website legris.com. From the «Low pressure» menu, enter the reference for each item and access full details: technical data, dimensions, certificates, CAD drawings.



Our solution for the **non**

POLYMER INSTANT FITTINGS

THREADED FITTINGS



3175
taper



3101
parallel and metric



3181
metric



3114
parallel and metric

MALE STUD ELBOWS



3109
taper



3129
taper



3113
taper



3199
parallel and metric

TEES



3108
taper



3103
taper



3198
parallel and metric



3193
parallel and metric

TUBE TO TUBE FITTINGS



3106
Ø3 to Ø14



3102
Ø4 to Ø14



3104
Ø3 to Ø14



3140
Ø4 to Ø12



3144
Ø4 to Ø6

TUBE TO TUBE FITTINGS



3116
Ø4 to Ø14

BANJO FITTINGS



3118
parallel and metric

CARTRIDGES



3100
Ø4 to Ø12

PLUG-IN ACCESSORIES



3182
Ø4 to Ø12



3188
Ø4 to Ø12



3126
Ø3 to Ø14



3151
Ø4 to Ø12

INSTANT FITTINGS

Working pressure: 20 bar maximum
Vacuum: 99%
Temperature range: -20°C to +80°C
Available diameters: Ø3 to Ø14
Available threads: M3, M5, 1/8 to 1/2

food zone



POLYMER FUNCTION FITTINGS

FLOW REGULATORS WITH INSTANT FITTING



7010
parallel



7060
parallel



7040
parallel



7770
in line



7030
plug-in

BLOCKING FITTINGS WITH PUSH-IN CONNECTION



7883
parallel

NON-RETURN VALVES



7996
double union
Ø4 to Ø12



7984
parallel and metric



7985
taper

TUBING

SEMI-RIGID POLYAMIDE



1025P
1100P

FLEXIBLE POLYESTER POLYURETHANE



1025U
1100U

POLYETHER POLYURE-THANE BLACK, BLUE



1025U..R
1100U..R

BRASS NICKEL PLATED BALL VALVES



0492
parallel



0491
parallel

COUPLERS

BRASS NICKEL PLATED COUPLERS



9101
male parallel body



9114
female parallel body



9087
male parallel probe



9086
female parallel probe

Ø INTERNAL
Series 23 5,5 mm
Series 25 7,4 mm
Series 30 8,5 mm

SAFETY COUPLERS



9401U
male parallel body



9414U
female parallel body



9087U
male parallel probe



9086
female parallel probe

FUNCTION FITTINGS

Working pressure: 1 to 10 bar
Temperature range: 0°C to +70°C
Available diameters: Ø4 to Ø12
Available threads: M3 to 1/2

TUBING

External diameters:
Ø3 to Ø14

BALL VALVES

Working pressure:
12 bar maximum
Temperature range:
-20°C to +80°C
Internal diameter:
4 to 13 mm
Available threads:
1/4 to 3/4

COUPLERS

Working pressure:
35 bar /
16 bar (safety couplers)
Temperature range:
-20°C to+100°C /
-20°C to +60°C (safety couplers)
Available threads:
1/4 to 1/2

Find all the technical characteristics of these products on our website legris.com. From the «Low pressure» menu, enter the reference for each item and access full details: technical data, dimensions, certificates, CAD drawings.



LIQUIfit™

NEW

This complete range of products is dedicated to the transportation of fluids such as water, fruit juice and beverages.



APPLICATIONS

- Water filtration system
- Water fountains
- Industrial water treatment systems
- Drinks vending machines

A COMPLETE RANGE

- 3 tube diameters: 1/4, 3/8, 1/2.
- 4 sizes of NPTF threads: 1/8, 1/4, 3/8, 1/2.
- 120 product references available in 3 colours (white, grey and black).
- A tubing range in “advanced PE”, FDA approved NSF 51.
- 8 references of ball valves and non-return valves

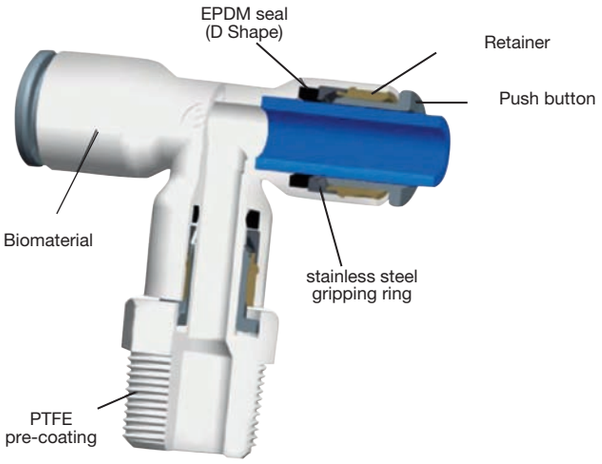


HIGH QUALITY MODERN MATERIALS

- Material approved by the FDA, NSF 51 and 61 (C hot).
- Excellent chemical resistance.
- Body and threads in plastic material (biomaterial).
- Sustainable products.

HIGH LEVEL TECHNICAL PERFORMANCE

- Working pressure up to 16 bar (40°C).
- Resistance to high temperatures: 95°C .
- Guaranteed static and dynamic sealing, thanks to excellent tube guidance and unique D design profile seal.
- 100% manufacturing control.
- No pumping effect.
- Quick assembly, facilitated by pre-coated thread sealant for an immediate seal.
- Performance of the “advanced PE” tubing : flexibility, UV, pressure and temperature resistance.





Liquifit™ 1/4 fitting



1/4 standard fitting

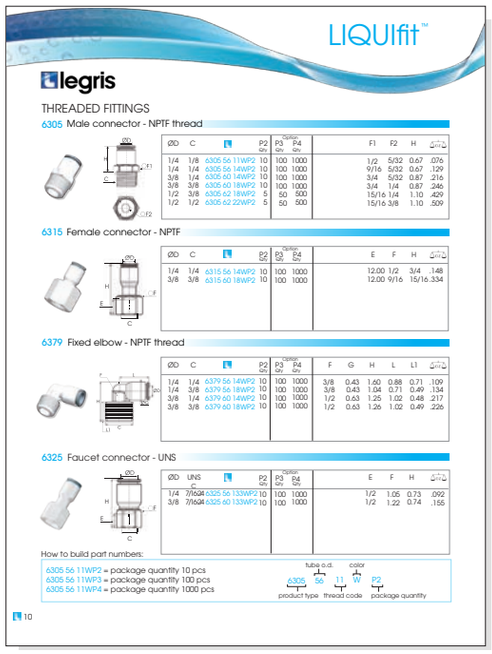
ERGONOMICS AND DESIGN

- One of the most compact fittings on the market.
- Easy, quick and safe connection / disconnection.
- Aesthetic and easy to clean.

Find all the technical characteristics of these products on our website: www.liquifit.net

LIQUIfit™ A NEW CATALOGUE





A DEDICATED WEBSITE





Parker legris connectic