

# **Connection Solutions**

for Food Machinery and Process Applications

Push-In Fittings, Tubing, Function Fittings, Couplers, Accessories



ENGINEERING YOUR SUCCESS.

High quality products, innovative solutions and an internationa presence.

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

# Content

# Fittings Adapted to Each Zone 4

# Our Solution for Each Food Zone Area

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

# Our Solution for the Splash Zone

Robust products, resistant to corrosion and mechanical constraints.

# Our Solution for the Non Food Zone

Products with high performance pressure and temperature capability.

# LIQUIfit®, Solutions for fluids & Beverages

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





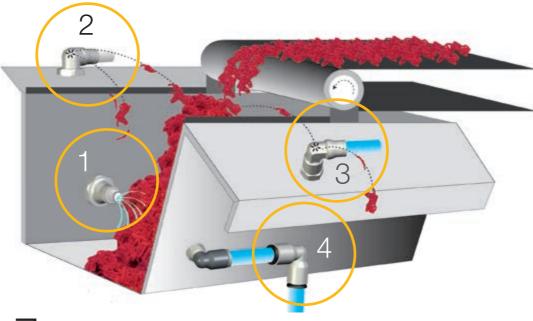




# Fittings Adapted to Each Zone of the Food Process Industry

Parker Legris is committed to developing wide ranges of robust pneumatic components that are chemically resistant and easy to clean.

Our offer perfectly suits each food process zone, enabling the manufacture of machinery and equipment which meet current standards.



# Splash Zone



#### **CHARACTERISTICS** OF THE ZONE

#### REQUIREMENTS FOR PNEUMATIC COMPONENTS

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

-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.





Surfaces subject

to the projection of food. but with limited potential return to the manufacturing process.







1 - Fluid and food

2 - Air, vacuum and water

Food Zone



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



### **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: a 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 food, conforming to FDA and 1935/2004/EC standards.



4 Celegris



# Non-Food Zone



4 - Air and vacuur

### CHARACTERISTICS OF THE ZONE

Surfaces which are not in contact with food.

### **REQUIREMENTS FOR PNEUMATIC** COMPONENTS

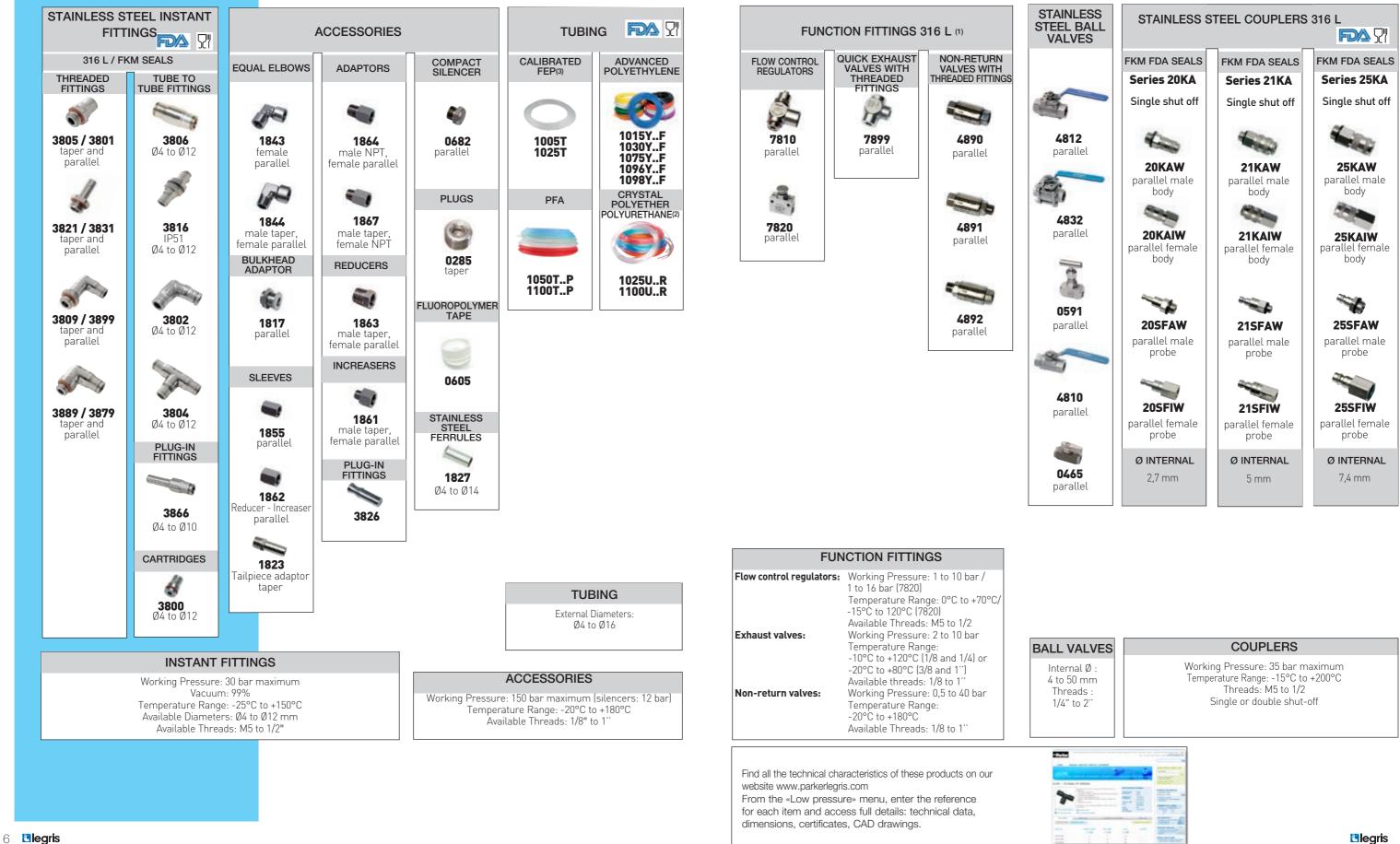
- High pressures and temperatures: technical performance of components.
- Quick, reliable and safe connection / disconnection.
- Frequent cleaning: less corrosive materials.

### -OUR PRODUCT ANSWER-

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 Zone





# Stainless Steel Fittings LF 3800

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

# The Largest Range on the Market

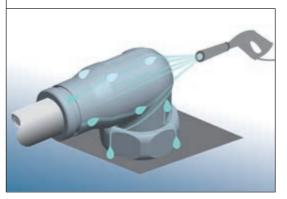
- Designed for demanding conditions of use: a range of instant fittings in full 316L stainless steel with FKM seals,
- for basic chemical resistance and a competitive price positioning • 17 different product body shapes, diameters from 4mm
- to 12mm, threads from M5 to 1/2"
- 2 thread types: taper and parallel

# Reliable and Robust Design

- Proven gripping technology:
- the collet guarantees excellent gripping and improved pull-out strength 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: 150°C, continuous (For higher temperatures, please contact our technical department)
- Sealed bulkhead connectors (to IP55) enabling complete protection against detrimental ingress in food and non-food zones

# Hygienic Design

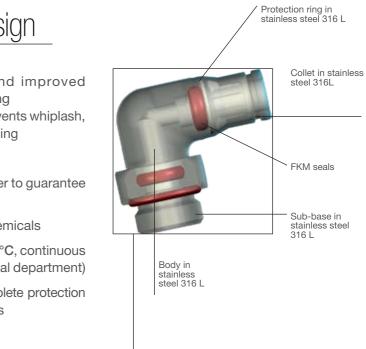
- Nutriment grade materials conforming to FDA and 1934/2004 EC standards, permitting permanent contact with food.
- · A permissable all metal product, preventing the risk of non-detection of misplaced components.
- A very smooth surface design aimed at reducing retention zones for safe and easy cleaning :

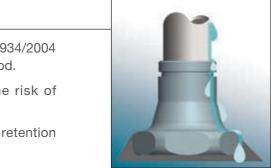






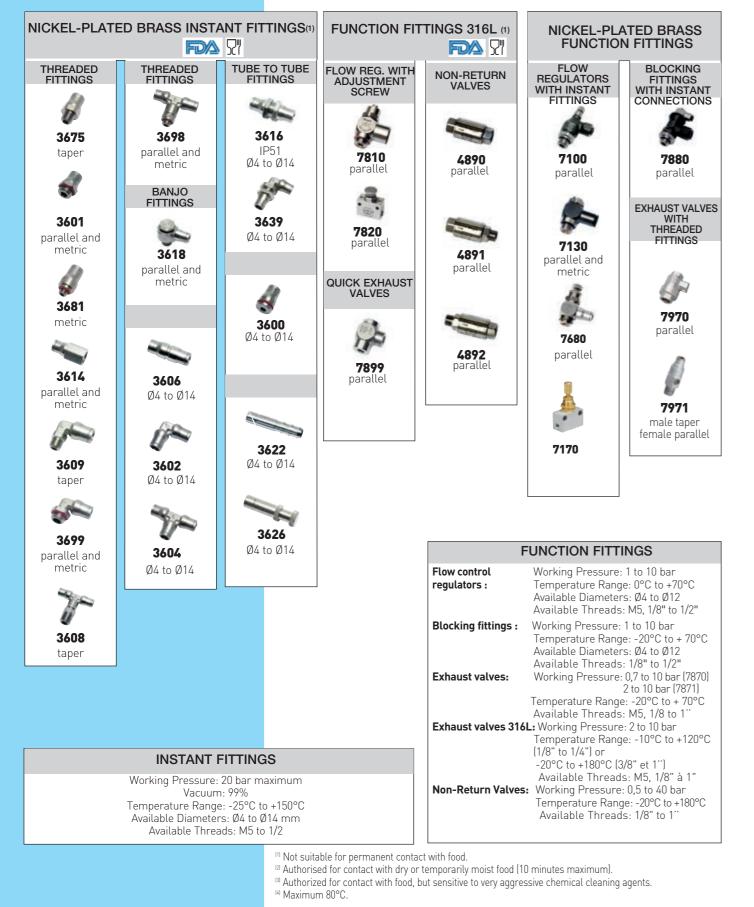






- Compact fittings with a polished surface for improved cleaning - Self-draining design naturally ensures the dispersion of external fluids - Ra < 0,8 surface prevents food deposits from adhering to body - Minimum space between release button and body of fitting - Aerodynamic body shape, without dead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

# Our Solution for the Splash Zone



NICKEL-PLATED BRASS TUBING ACCESSORIES ADVANCED POLYETHYLENE CALIBRATED EQUAL EQUAL Y ELBOWS FEP (3) 20m 01-3 0912 0911 female parallel male taper / 1005T 1015Y...F and metric female parallel 1025T 1030Y..F 1075Y..F EQUAL 1096Y..F CROSSES 1098Y..F CRYSTAL 20 BRAIDED PVC POLYETHER 0913 POLYURETHANE male taper / female parallel 0908 parallel ADAPTOR 0921 -1025U..R female metric 1100U..R 0192 double male EQUAL TEE taper / parallel (NR) PLUGS (4) 0915 NBR Seal parallel and ٢ metric 0919 parallel and metric 0916 male taper / female parallel 0923 metric

ACCESSORIES	TUBING
Working pressure: 60 bar maximum Temperature range: -10°C to +150°C Available threads: M5 to 3/4	External diameters: Ø4 to Ø16
Find all the technical characteristics of these website www.parkerconnectic.com From the «Low pressure» menu, enter for each item and access full details: te	the reference

dimensions, certificates, CAD drawings.





#### BALL VALVES

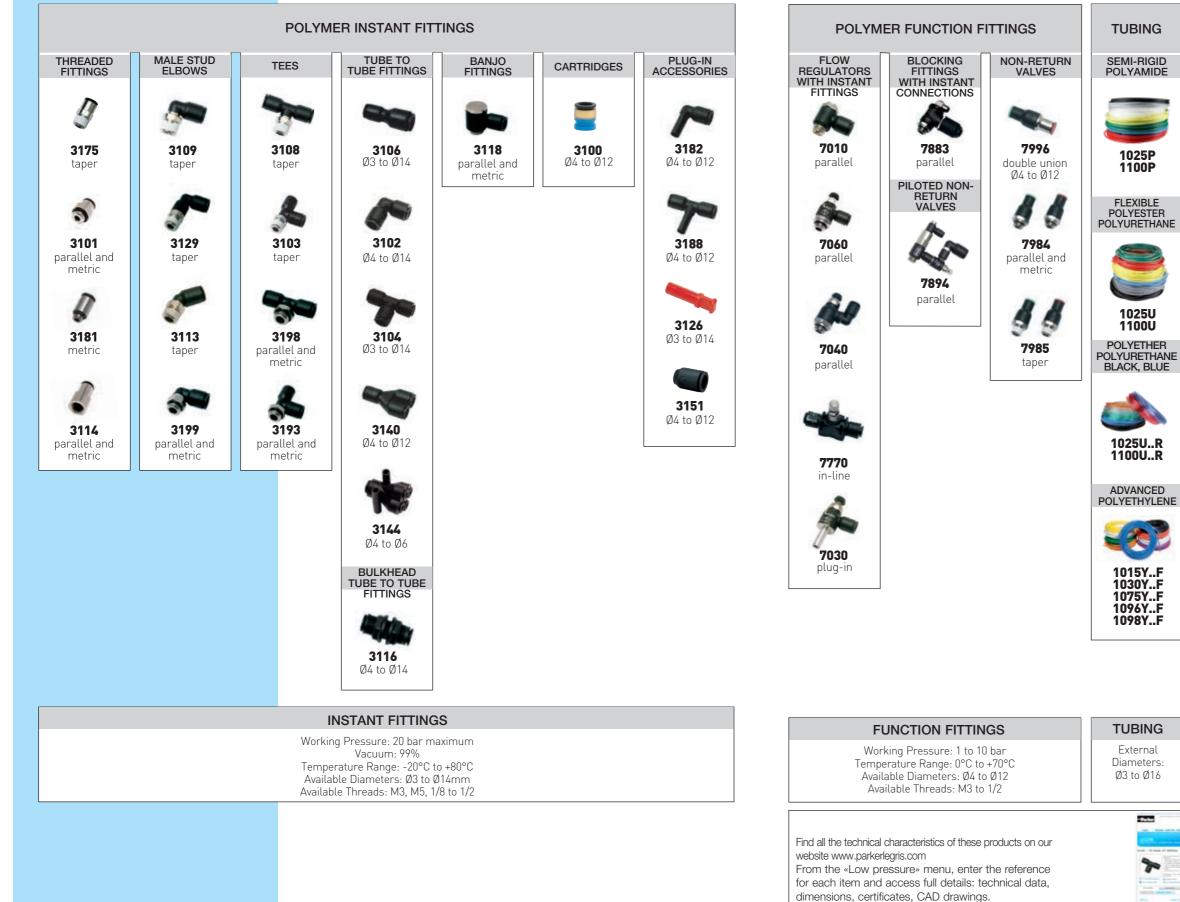
Fluoropolymer series: Working pressure: 25 to 30 bar Temperature range: -20°C to +130°C Internal diameter: 10 to 100 mm Available threads: 1/4 to 4" Straight universal series: Working pressure: 20 to 40 bar Temperature range: -20°C to +80°C Internal diameter 4 to 40 mm Available threads: 1/8 to 2"



#### COUPLERS

Working pressure: 35 bar Temperature range: -20°C to +100°C Available threads: M5 to 1/2''

# Our Solution for the Non Food Zone









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

# LIQUIfit<sup>®</sup>, Connection Solutions for Beverage & Fluids

# LIQUIfit<sup>®</sup> Push-In Fittings

This "eco-designed" range proposes an **innovative** alternative for water applications; no fluid contamination occurs and environmental protection is guaranteed. These fittings ensure reliable and compact connections for **liquid transfer** applications.

## **Product Advantages**

Innovative	Ergonomic and aesthetic design	
Technology	The most compact product on the market for water, beverages	W2
& Concept	and liquid foodstuffs	ANARO
a oonoopt	Easy-to-clean external surfaces	CERTIFIED
	Push-in connection and disconnection	CERTI
	Full flow	
	Use with a pre-prepared metallic tubing	FUR
	Gripping system preventing any pumping effect	-
	Eco-designed (materials, manufacturing process, weight,	Sr
	dimensions and performance)	
Optimal	Patented sealing technology	
	100% leak-tested in production	
Performance		
	Date coding to guarantee quality and traceability	
	Wide range of shapes and numerous configurations	
		Hot & Cold Drinks Dispensers
High	Bio-sourced polymer meeting the most severe	Neutral Gases
Performance	food process regulations	Cooling Systems
Material	Suitable for contact with water and beverages	Food Process
indtorial	Excellent chemical and mechanical resistance,	Water Purification Systems
	even at high temperature	Water Dispensers
	Free of bisphenol A and phtalates, conforming with regulations	Medical
		IVIEUICAI

# **Technical Characteristics**

Compatible Fluids	Water, beverages, $\rm CO_2$ (inert use) Chemical fluids: please consult us			
Working Pressure	Vacuum to 16 bar			
Working Temperature	-10°C to +95°C			
Tightening Torques	Thread	1/8" and 1/4"	3/8" and 1/2"	
(BSPT/NPTF)	daN.m	0.15	0.30	

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

Component Materials Release button: technical polymer	
Body and adaptor: bio-based polymer	
Silicone-free	
Regulations	
DI: 2002/95/EC (RoHS), 2011/65/ EC RG: 1935/2004/EC	DM 174 WRAS ACS

KTW

W270

FDA: 21 CFR

NSF 51 at 95°C

NSF/ANSI 61 - C HOT

RG: 1907/2006 (REACH)

Applications

# LIQUIIIT<sup>®</sup> Push-In Fittings with Metal Adaptors

The LIQUIfit<sup>®</sup> range now benefits from a range extension of **metal adaptors** designed for liquid transfer applications. These fittings ensure reliable and compact connections combined with excellent robustness.

# **Product Advantages**

Innovative Technology & Concept	Ergonomic and aesthetic design Compact product for water applications Easy-to-clean external surfaces Full flow Use with a pre-prepared metallic tubing Gripping system preventing any pumping eff
Optimal	Patented sealing technology
Performance	100% leak-tested in production
	Date coding to guarantee quality and tracea
	Wide range of shapes and numerous config
	Excellent robustness for a long lifespan
High Performance	Bio-sourced polymer body meeting the most so food process regulations
Material	Compatibility with beverages (stainless steel
	Unsurpassed chemical and mechanical resist even at high temperatures
	Free of bisphenol A and phtalates, conforming regulations

### **Technical Characteristics**

Compatible Fluids	Water, beverages, industrial fluids: stainless steel threads Industrial fluids: FDA chemical nickel-plated brass threads					
Working Pressure	Vacuum to 16 bar					
Working Temperature	-10°C to +95°C					
Tightening Torques (BSPP)	Thread	M5 X0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5

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



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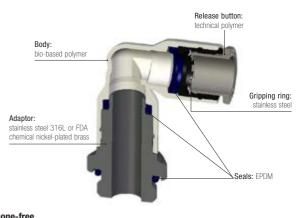
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Industrial Fluids Beverage Process Inert Gases Cooling Systems Food Process Beverage Process

#### **Component Materials**



#### Silicone-free

#### Regulations

DI: 2002/95/EC (RoHS), 2011/65/EC RG: 1935/2004/EC FDA: 21 CFR KTW (stainless steel only) W270 (stainless steel only)

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