



Connection Solutions

for Food Machinery and Process Applications

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



ENGINEERING YOUR SUCCESS.

Content

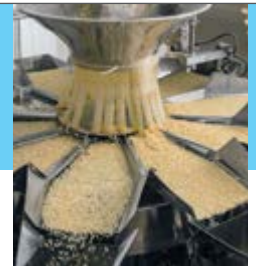
Fittings Adapted to Each Zone of the Food Process Industry

4

Our Solution for Each Food Zone Area

6

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



Our Solution for the Splash Zone

10

Robust products, resistant to corrosion and mechanical constraints.



Our Solution for the Non Food Zone

12

Products with high performance pressure and temperature capability.



LIQUIfit®, Solutions for fluids & Beverages

14

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



High quality products, innovative solutions and an international presence.



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

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.



Food Zone



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

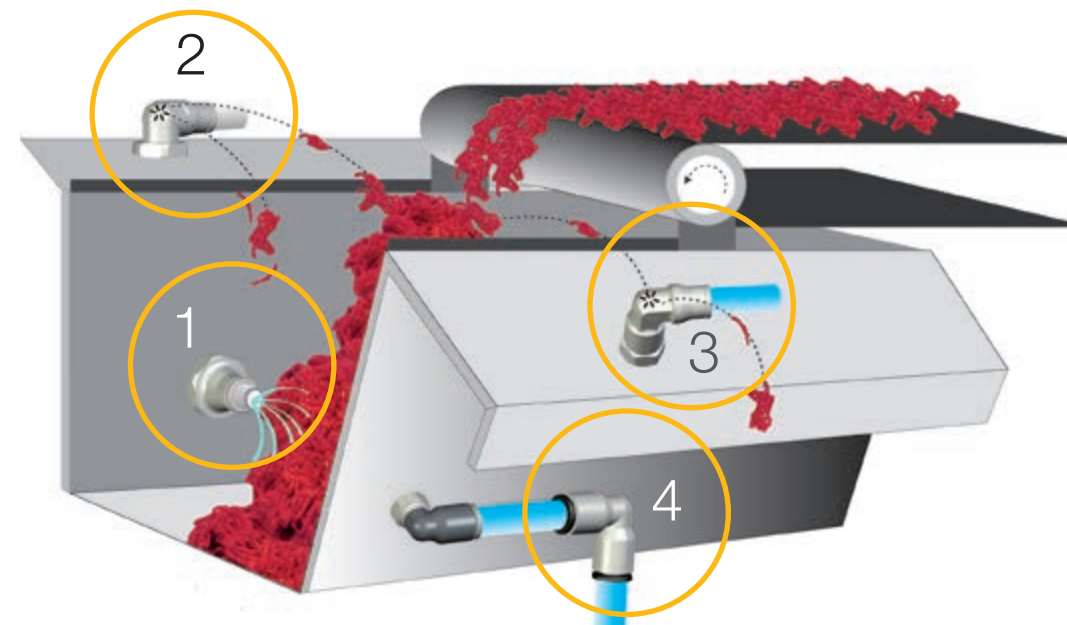
1 - Fluid and food
2 - Air, vacuum and water

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.



Splash Zone



3 - Air, water and vacuum

CHARACTERISTICS OF THE ZONE

Surfaces subject to the projection of food, 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: 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.



Non-Food Zone



4 - Air and vacuum

CHARACTERISTICS OF THE ZONE

Surfaces which are not in contact with food.

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

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 INSTANT FITTINGS  

316 L / FKM SEALS

THREADED FITTINGS	TUBE TO TUBE FITTINGS
 3805 / 3801 taper and parallel	 3806 Ø4 to Ø12
 3821 / 3831 taper and parallel	 3816 IP51 Ø4 to Ø12
 3809 / 3899 taper and parallel	 3802 Ø4 to Ø12
 3889 / 3879 taper and parallel	 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: -25°C to +150°C
Available Diameters: Ø4 to Ø12 mm
Available Threads: M5 to 1/2"

ACCESSORIES

EQUAL ELBOWS	ADAPTORS	COMPACT SILENCER
 1843 female parallel	 1864 male NPT, female parallel	 0682 parallel
 1844 male taper, female parallel	 1867 male taper, female NPT	PLUGS
BULKHEAD ADAPTOR	REDUCERS	 0285 taper
 1817 parallel	 1863 male taper, female parallel	FLUOROPOLYMER TAPE
SLEEVES	INCREASERS	 0605
 1855 parallel	 1861 male taper, female parallel	STAINLESS STEEL FERRULES
 1862 Reducer - Increaser parallel	PLUG-IN FITTINGS	 1827 Ø4 to Ø14
 1823 Tailpiece adaptor taper	 3826	

TUBING  

CALIBRATED FEP(3)	ADVANCED POLYETHYLENE
 1005T 1025T	 1015Y..F 1030Y..F 1075Y..F 1096Y..F 1098Y..F
PFA	CRYSTAL POLYETHER POLYURETHANE(2)
 1050T..P 1100T..P	 1025U..R 1100U..R

TUBING

External Diameters:
Ø4 to Ø16

ACCESSORIES

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

FUNCTION FITTINGS 316 L (1)

FLOW CONTROL REGULATORS	QUICK EXHAUST VALVES WITH THREADED FITTINGS	NON-RETURN VALVES WITH THREADED FITTINGS
 7810 parallel	 7899 parallel	 4890 parallel
 7820 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"

STAINLESS STEEL BALL VALVES

 4812 parallel
 4832 parallel
 0591 parallel
 4810 parallel
 0465 parallel

BALL VALVES

Internal Ø :
4 to 50 mm
Threads :
1/4" to 2"

STAINLESS STEEL COUPLERS 316 L  

FKM FDA SEALS	FKM FDA SEALS	FKM FDA SEALS
Series 20KA Single shut off	Series 21KA Single shut off	Series 25KA Single shut off
 20KAW parallel male body	 21KAW parallel male body	 25KAW parallel male body
 20KAIW parallel female body	 21KAIW parallel female body	 25KAIW parallel female body
 20SFAW parallel male probe	 21SFAW parallel male probe	 25SFAW parallel male probe
 20SFIW parallel female probe	 21SFIW parallel female probe	 25SFIW parallel female probe
Ø INTERNAL 2,7 mm	Ø INTERNAL 5 mm	Ø INTERNAL 7,4 mm

COUPLERS

Working Pressure: 35 bar maximum
Temperature Range: -15°C to +200°C
Threads: M5 to 1/2"
Single or double shut-off

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



Stainless Steel Fittings LF 3800

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

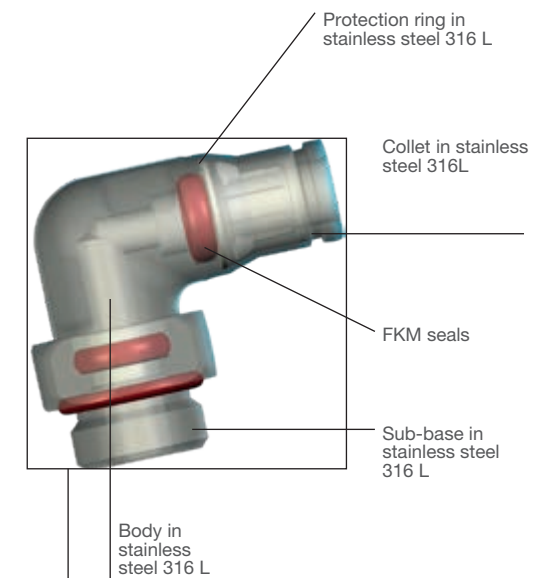
The Largest Range on the Market

- 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



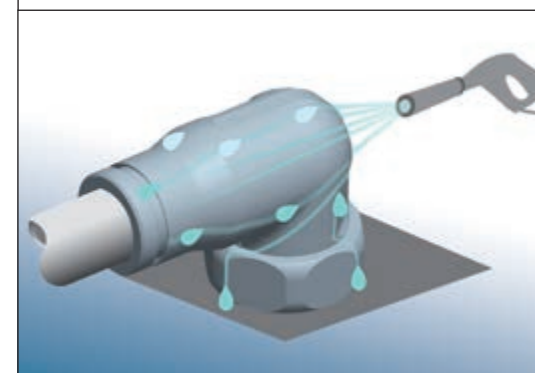
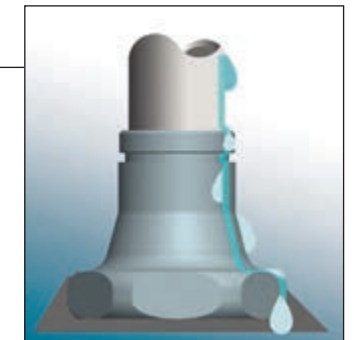
Reliable and Robust Design

- 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

- Nutrient grade materials conforming to FDA and 1934/2004 EC standards, permitting permanent contact with food.
- A permissible 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 INSTANT FITTINGS⁽¹⁾



THREADED FITTINGS	THREADED FITTINGS	TUBE TO TUBE FITTINGS
 3675 taper	 3698 parallel and metric	 3616 IP51 Ø4 to Ø14
 3601 parallel and metric	BANJO FITTINGS	 3639 Ø4 to Ø14
 3681 metric	 3618 parallel and metric	 3600 Ø4 to Ø14
 3614 parallel and metric	 3606 Ø4 to Ø14	 3622 Ø4 to Ø14
 3609 taper	 3602 Ø4 to Ø14	 3626 Ø4 to Ø14
 3699 parallel and metric	 3604 Ø4 to Ø14	
 3608 taper		

INSTANT FITTINGS

Working Pressure: 20 bar maximum
Vacuum: 99%
Temperature Range: -25°C to +150°C
Available Diameters: Ø4 to Ø14 mm
Available Threads: M5 to 1/2

FUNCTION FITTINGS 316L⁽¹⁾



FLOW REG. WITH ADJUSTMENT SCREW	NON-RETURN VALVES
 7810 parallel	 4890 parallel
 7820 parallel	 4891 parallel
QUICK EXHAUST VALVES	 4892 parallel
 7899 parallel	

NICKEL-PLATED BRASS FUNCTION FITTINGS

FLOW REGULATORS WITH INSTANT FITTINGS	BLOCKING FITTINGS WITH INSTANT CONNECTIONS
 7100 parallel	 7880 parallel
 7130 parallel and metric	EXHAUST VALVES WITH THREADED FITTINGS
 7680 parallel	 7970 parallel
 7170	 7971 male taper female parallel

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"
Exhaust valves 316L:	Working Pressure: 2 to 10 bar Temperature Range: -10°C to +120°C (1/8" to 1/4") or -20°C to +180°C (3/8" et 1") Available Threads: M5, 1/8" à 1"
Non-Return Valves:	Working Pressure: 0,5 to 40 bar Temperature Range: -20°C to +180°C Available Threads: 1/8" to 1"

NICKEL-PLATED BRASS ACCESSORIES

EQUAL ELBOWS	EQUAL Y
 0912 female parallel and metric	 0911 male taper / female parallel
 0913 male taper / female parallel	EQUAL CROSSES
 0921 female metric	 0908 parallel
EQUAL TEE	ADAPTOR
 0915 parallel and metric	 0192 double male taper / parallel
 0916 male taper / female parallel	PLUGS⁽⁴⁾
 0923 metric	 0919 parallel and metric

ACCESSORIES

Working pressure: 60 bar maximum
Temperature range: -10°C to +150°C
Available threads: M5 to 3/4

TUBING



CALIBRATED FEP ⁽³⁾	ADVANCED POLYETHYLENE
 1005T 1025T	 1015Y..F 1030Y..F 1075Y..F 1096Y..F 1098Y..F BRAIDED PVC
 1025U..R 1100U..R	

NICKEL-PLATED BRASS BALL VALVES

STRAIGHT FLUOROPOLYMER SERIES	STRAIGHT UNIVERSAL SERIES
 4902 parallel	 0402 parallel
	 0401 parallel
	 0482 parallel
	 0452 parallel
	 0439 parallel

NICKEL-PLATED BRASS COUPLERS

FKM SEALS
Series 20 / 21 / 25KA single shut-off
 21KAAW male parallel body
 21KAIW female parallel body
 21SFAW male parallel probe
 21SFIW female parallel probe
Ø INTERNAL Series 20 2,7 mm Series 21 5 mm Series 25 7,4 mm

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"

⁽¹⁾ Not suitable for permanent contact with food.

⁽²⁾ Authorised for contact with dry or temporarily moist food (10 minutes maximum).

⁽³⁾ Authorized for contact with food, but sensitive to very aggressive chemical cleaning agents.

⁽⁴⁾ Maximum 80°C.

Find all the technical characteristics of these products on our website www.parkerconnectic.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 Food Zone



POLYMER INSTANT FITTINGS						
THREADED FITTINGS	MALE STUD ELBOWS	TEES	TUBE TO TUBE FITTINGS	BANJO FITTINGS	CARTRIDGES	PLUG-IN ACCESSORIES
 3175 taper	 3109 taper	 3108 taper	 3106 Ø3 to Ø14	 3118 parallel and metric	 3100 Ø4 to Ø12	 3182 Ø4 to Ø12
 3101 parallel and metric	 3129 taper	 3103 taper	 3102 Ø4 to Ø14			 3188 Ø4 to Ø12
 3181 metric	 3113 taper	 3198 parallel and metric	 3104 Ø3 to Ø14			 3126 Ø3 to Ø14
 3114 parallel and metric	 3199 parallel and metric	 3193 parallel and metric	 3140 Ø4 to Ø12			 3151 Ø4 to Ø12
			 3144 Ø4 to Ø6			
			BULKHEAD TUBE TO TUBE FITTINGS			
			 3116 Ø4 to Ø14			

INSTANT FITTINGS

Working Pressure: 20 bar maximum
Vacuum: 99%
Temperature Range: -20°C to +80°C
Available Diameters: Ø3 to Ø14mm
Available Threads: M3, M5, 1/8 to 1/2

POLYMER FUNCTION FITTINGS			TUBING	NICKEL-PLATED BRASS BALL VALVES	COUPLERS	
FLOW REGULATORS WITH INSTANT FITTINGS	BLOCKING FITTINGS WITH INSTANT CONNECTIONS	NON-RETURN VALVES	SEMI-RIGID POLYAMIDE		NICKEL-PLATED BRASS COUPLERS	SAFETY COUPLERS
 7010 parallel	 7883 parallel	 7996 double union Ø4 to Ø12	 1025P 1100P	 0492 parallel	 SERIES 23 / 24 / 30	 9401U male parallel body
 7060 parallel	PILOTED NON-RETURN VALVES	 7984 parallel and metric	FLEXIBLE POLYESTER POLYURETHANE	 0491 parallel	 23KAAK male parallel body	 9414U female parallel body
 7040 parallel	 7894 parallel	 7985 taper	 1025U 1100U	VANNES A PURGE	 23KAIW female parallel body	 9087U male parallel probe
 7770 in-line			POLYETHER POLYURETHANE BLACK, BLUE	 0669 parallel	 23SFAK male parallel probe	 9086U female parallel probe
 7030 plug-in			 1025U..R 1100U..R		 23SFIW female parallel probe	
			ADVANCED POLYETHYLENE		Ø INTERNAL Series 23 5,5 mm Series 24 5,5 mm Series 30 8,5 mm	
			 1015Y..F 1030Y..F 1075Y..F 1096Y..F 1098Y..F			

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 Ø16

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 www.parkerlegris.com
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LIQUIfit® , Connection Solutions for Beverage & Fluids

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



- Hot & Cold Drinks Dispensers
Neutral Gases
Cooling Systems
Food Process
Water Purification Systems
Water Dispensers
Medical
- Applications

LIQUIfit® Push-In Fittings with Metal Adaptors

The LIQUIfit® 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
Optimal Performance	Easy-to-clean external surfaces
	Full flow
High Performance Material	Use with a pre-prepared metallic tubing
	Gripping system preventing any pumping effect
Optimal Performance	Patented sealing technology
	100% leak-tested in production
High Performance Material	Date coding to guarantee quality and traceability
	Wide range of shapes and numerous configurations
Optimal Performance	Excellent robustness for a long lifespan
	Patented sealing technology
High Performance Material	100% leak-tested in production
	Date coding to guarantee quality and traceability
Optimal Performance	Wide range of shapes and numerous configurations
	Excellent robustness for a long lifespan
High Performance Material	Bio-sourced polymer body meeting the most severe food process regulations
	Compatibility with beverages (stainless steel version)
Optimal Performance	Unsurpassed chemical and mechanical resistance, even at high temperatures
	Free of bisphenol A and phtalates, conforming with regulations



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

Technical Characteristics

Compatible Fluids	Water, beverages, CO ₂ (inert use) Chemical fluids: please consult us		
Working Pressure	Vacuum to 16 bar		
Working Temperature	-10°C to +95°C		
Tightening Torques (BSPT/NPTF)	Thread	1/8" and 1/4"	3/8" and 1/2"
	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
FDA: 21 CFR
NSF 51 at 95°C
NSF/ANSI 61 - C HOT

DM 174
WRAS
ACS
RG: 1907/2006 (REACH)
KTW
W270

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).

Component Materials

Body: bio-based polymer

Adaptor: stainless steel 316L or FDA chemical nickel-plated brass

Release button: technical polymer

Gripping ring: stainless steel

Seals: EPDM

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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European Product Information Centre

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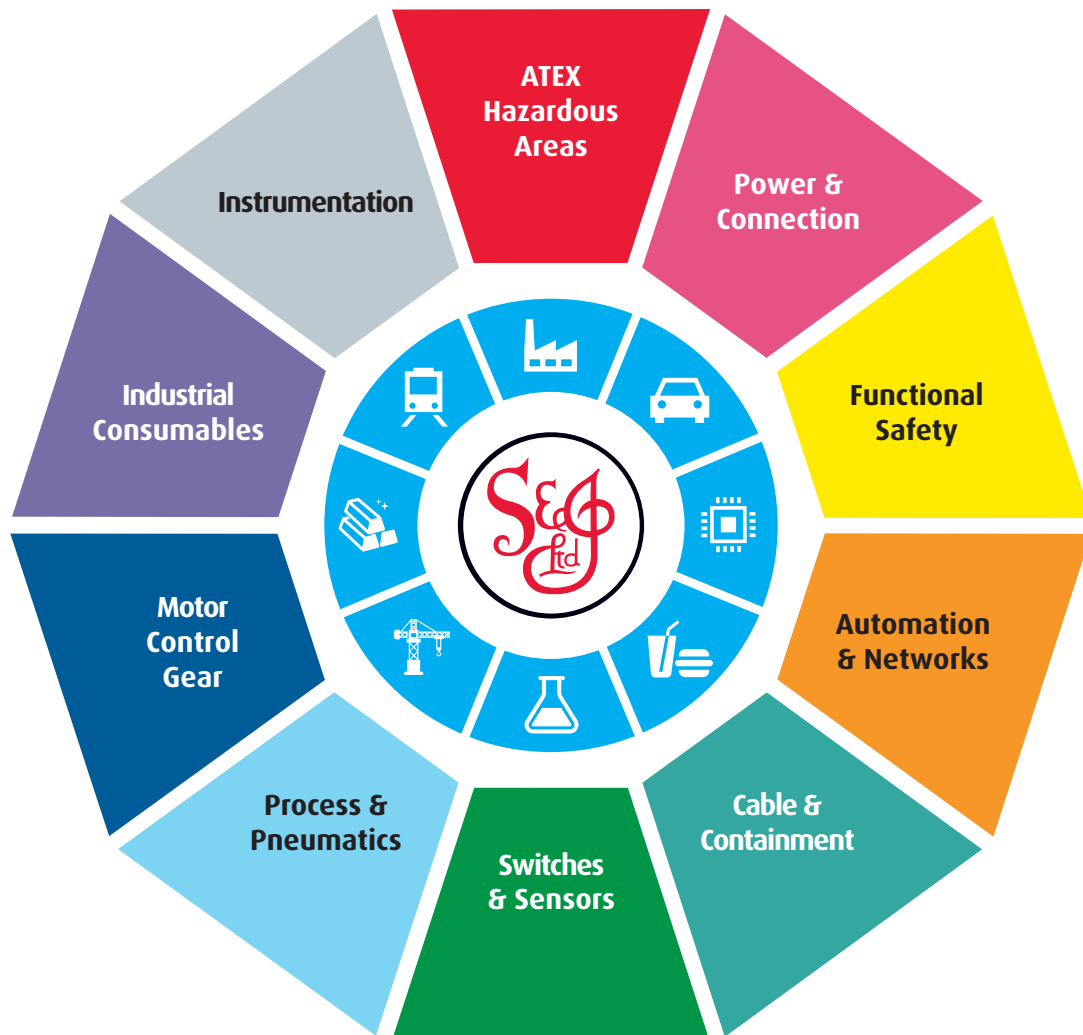
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Working with a range of quality product manufacturers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

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