hymatik

Connection Solutions

for Food Machinery and Process Applications

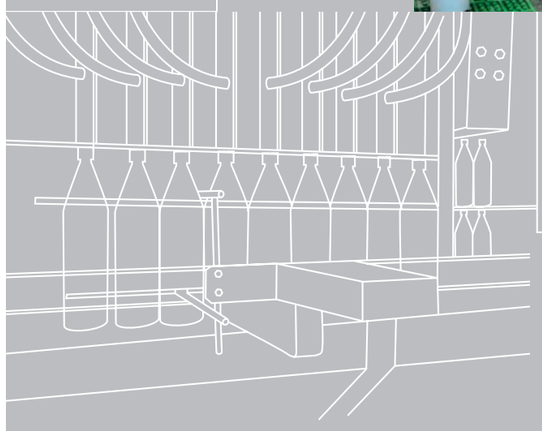
Push-In Fittings, Tubing, Function Fittings, Couplers, Accessories

Parker

ENGINEERING YOUR SUCCESS.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

High quality products, innovative solutions and an international presence.



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

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Our Solution for **Each Food Zone Area** 6

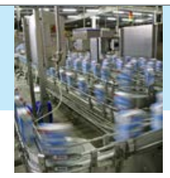
1&2 Robust products conveying any type of fluid, corrosion-resistant, safe, and easy to clean.

Our Solution for the **Splash Zone** 10

3 Robust products, resistant to corrosion and mechanical constraints.

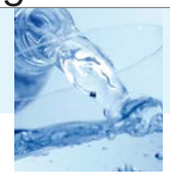
Our Solution for the **Non Food Zone** 12

4 Products with high performance pressure and temperature capability.



LIQUIfit®, Solutions **for fluids & Beverages** 14

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



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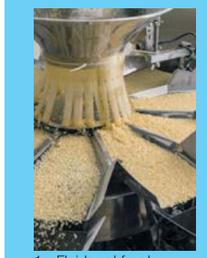
Fittings Adapted to Each Zone of the **Food Process Industry**

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



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

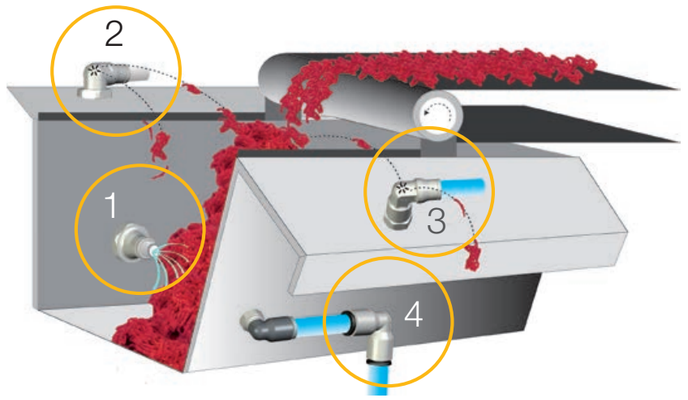
REQUIREMENTS FOR PNEUMATIC COMPONENTS

- 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: 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.

FDA



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.

FDA

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.

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Our Solution for **the Food Zone**

STAINLESS STEEL INSTANT FITTINGS

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

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

ACCESSORIES

EQUAL ELBOWS

1843
female parallel

1844
male taper, female parallel

BULKHEAD ADAPTOR

1817
parallel

SLEEVES

1855
parallel

1862
Reducer - Increaser parallel

1823
Tailpiece adaptor taper

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 FITTINGS

3826

COMPACT SILENCER

0682
parallel

PLUGS

0285
taper

FLUOROPOLYMER TAPE

0605

STAINLESS STEEL FERRULES

1827
Ø4 to Ø14

TUBING

CALIBRATED FEP(3)

1005T
1025T

PFA

1050T..P
1100T..P

ADVANCED POLYETHYLENE

1015Y..F
1030Y..F
1075Y..F
1096Y..F
1098Y..F

CRYSTAL POLYETHER POLYURETHANE(2)

1025U..R
1100U..R

FUNCTION FITTINGS 316 L (1)

FLOW CONTROL REGULATORS

7810
parallel

7820
parallel

QUICK EXHAUST VALVES WITH THREADED FITTINGS

7899
parallel

NON-RETURN VALVES WITH THREADED FITTINGS

4890
parallel

4891
parallel

4892
parallel

STAINLESS STEEL BALL VALVES

4812
parallel

4832
parallel

0591
parallel

4810
parallel

0465
parallel

STAINLESS STEEL COUPLERS 316 L

FKM FDA SEALS — Series 20KA

Single shut off

20KAW
parallel male body

20KAIW
parallel female body

20SFAW
parallel male probe

20SFIW
parallel female probe

Ø INTERNAL
2,7 mm

FKM FDA SEALS — Series 21KA

Single shut off

21KAW
parallel male body

21KAIW
parallel female body

21SFAW
parallel male probe

21SFIW
parallel female probe

Ø INTERNAL
5 mm

FKM FDA SEALS — Series 25KA

Single shut off

25KAW
parallel male body

25KAIW
parallel female body

25SFAW
parallel male probe

25SFIW
parallel female probe

Ø INTERNAL
7,4 mm

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"

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

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"

BALL VALVES

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

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.

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Stainless Steel Fittings LF 3800

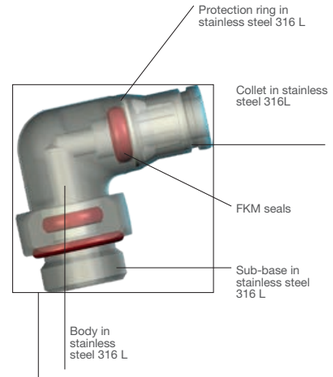
A range of stainless steel instant fittings combining robustness and hygienic design

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**

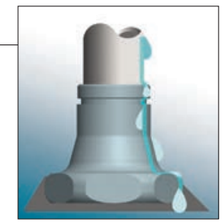
Reliable and **Robust** Design

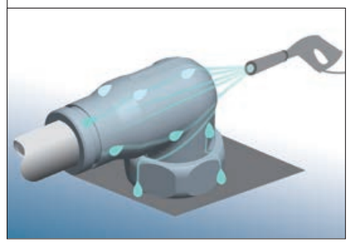
- **Proven gripping technology:**
  - the collet guarantees excellent gripping and improved pull-out strength for soft and stainless steel tubing
  - the collet is resistant to mechanical shocks and prevents whiplash, in particular when using metallic (pre-grooved) tubing
- **Simple and reliable design**
- **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

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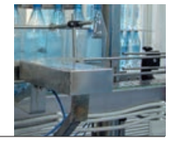
Our Solution for the **Splash Zone**



NICKEL-PLATED BRASS INSTANT FITTINGS[1]

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

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

3600
Ø4 to Ø14

3622
Ø4 to Ø14

3626
Ø4 to Ø14

FUNCTION FITTINGS 316L [1]

FLOW REG. WITH ADJUSTMENT SCREW

7810
parallel

7820
parallel

QUICK EXHAUST VALVES

7899
parallel

NON-RETURN VALVES

4890
parallel

4891
parallel

4892
parallel

NICKEL-PLATED BRASS FUNCTION FITTINGS

FLOW REGULATORS WITH INSTANT FITTINGS

7100
parallel

7130
parallel and metric

7680
parallel

7170

BLOCKING FITTINGS WITH INSTANT CONNECTIONS

7880
parallel

EXHAUST VALVES WITH THREADED FITTINGS

7970
parallel

7971
male taper female parallel

NICKEL-PLATED BRASS 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 [4]

**NBR Seal*

0919
parallel and metric

TUBING

CALIBRATED FEP [3]

1005T
1025T

CRYSTAL POLYETHER POLYURETHANE[2]

1025U..R
1100U..R

ADVANCED POLYETHYLENE

1015Y..F
1030Y..F
1075Y..F
1096Y..F
1098Y..F

BRAIDED PVC

NICKEL-PLATED BRASS BALL VALVES

STRAIGHT FLUOROPOLYMER SERIES

4902
parallel

STRAIGHT UNIVERSAL SERIES

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

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

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"

[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.

ACCESSORIES

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

TUBING

External diameters:
Ø4 to Ø16

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"

Find all the technical characteristics of these products on our website www.parkerconnectic.com
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Our Solution for the **Non Food Zone**

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

BULKHEAD 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 Ø14mm
Available Threads: M3, M5, 1/8 to 1/2

POLYMER FUNCTION FITTINGS

FLOW REGULATORS WITH INSTANT FITTINGS

7010
parallel

7060
parallel

7040
parallel

7770
in-line

7030
plug-in

BLOCKING FITTINGS WITH INSTANT CONNECTIONS

7883
parallel

PILOTED NON-RETURN VALVES

7894
parallel

NON-RETURN VALVES

7996
double union
Ø4 to Ø12

7984
parallel and metric

7985
taper

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

SEMI-RIGID POLYAMIDE

1025P
1100P

FLEXIBLE POLYESTER POLYURETHANE

1025U
1100U

POLYETHER POLYURETHANE BLACK, BLUE

1025U..R
1100U..R

ADVANCED POLYETHYLENE

1015Y..F
1030Y..F
1075Y..F
1096Y..F
1098Y..F

TUBING

External Diameters:
Ø3 to Ø16

NICKEL-PLATED BRASS BALL VALVES

0492
parallel

0491
parallel

VANNES A PURGE

0669
parallel

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

NICKEL-PLATED BRASS COUPLERS

SERIES 23 / 24 / 30

23KAAK
male parallel body

23KAIW
female parallel body

23SFAK
male parallel probe

23SFIW
female parallel probe

Ø INTERNAL

Series 23 5,5 mm
Series 24 5,5 mm
Series 30 8,5 mm

SAFETY COUPLERS

9401U
male parallel body

9414U
female parallel body

9087U
male parallel probe

9086U
female parallel probe

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
- Easy-to-clean external surfaces
- Push-in connection and disconnection
- Full flow
- Use with a pre-prepared metallic tubing
- Gripping system preventing any pumping effect
- Eco-designed (materials, manufacturing process, weight, dimensions and performance)

Optimal Performance
- Patented sealing technology
- 100% leak-tested in production
- 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
- Excellent chemical and mechanical resistance, even at high temperature
- Free of bisphenol A and phtalates, conforming with regulations

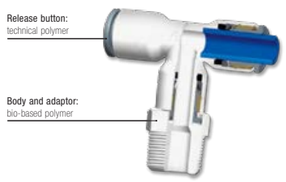
Applications
- Hot & Cold Drinks Dispensers
- Neutral Gases
- Cooling Systems
- Food Process
- Water Purification Systems
- Water Dispensers
- Medical

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



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

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
- Easy-to-clean external surfaces
- Full flow
- Use with a pre-prepared metallic tubing
- Gripping system preventing any pumping effect

Optimal Performance
- Patented sealing technology
- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- 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)
- Unsurpassed chemical and mechanical resistance, even at high temperatures
- Free of bisphenol A and phtalates, conforming with regulations

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

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

Silicone-free

Regulations

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